

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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1961

PAGE 619

VICTORIA	82.31	33.3	11 23	-1			
GLEN CANYON	83.31	47.8	11 30	1			
MAWSON	83.78	199.8	11 29K	-2			
PENTICTON	84.80	34.2	11 36	0			
COLLEGE	85.87	12.6	11 39	-2		11 46	PCP
FLAMING GRGE	86.67	45.1	11 45	0			
WICHITA MTS.	92.01	54.2	12 9	0		29 23	PKKP
QUETTA	119.86	294.9	17 47	1			
SHIRAZ	132.37	293.9				20 44	
NURMIJARVI	134.46	344.3	18 13	-1		20 51	SKP
WITTEVEEN	145.04	354.7	18 35	2			
RACIBORZ	145.35	341.2	18 35	1			
COLLMBERG	145.58	347.4	18 35K	1	21 0	18 47	PKP2
KSARA	145.61	304.0	18 37	3			
PRUHONICE	146.46	344.9	18 38K	3			
LWIRO	146.52	235.8	18 40K	5			
JERUSALEM	146.75	300.8	18 40K	4			
BENSBERG	146.83	353.6	18 39	3			
KASPERSKE H.	147.49	345.4	18 41	4		18 37	PKIKP
STUTTGART	148.70	350.3	18 37	-2			
STRASBOURG	149.10	352.1	18 46	7			
LJUBLJANA	150.07	341.9	18 47K	6		20 10	
HELWAN	150.50	299.1	18 48K	7			
GARCH	150.79	358.0	18 49	7		18 59	PKP2
ATHENS	152.28	320.3	18 51A	7			

JULY 2 2.H 7.M 6.S EPICENTRE 42.43 143.10 DEPTH= 69.KM

A=-0.59209 B= 0.44451 C= 0.67220 D= 0.6004 E= 0.7997
G=-0.5376 H= 0.4036 K=-0.7404 HT= -2.6

DEPTH OF FOCUS= 0.006R

SE= 3.41

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
HIROO	0.22	132.7	0	9A	-3	0	15	-6				
URAKAWA	0.37	220.7	0	11	-3	0	18	-6				
OBIHIRO	0.50	8.3	0	13K	-2	0	24	-2				
KUSIRO	1.10	59.6	0	21A	0	0	36	0				
TOMAKOMAI	1.14	280.6	0	22	0	0	39	2				
SAPPORO	1.44	297.0	0	26K	1	0	44	0				
ASAHI GAWA	1.45	338.6	0	27	1							
MURORAN	1.58	266.7	0	26	-1	0	46	-1				
ABASHIRI	1.81	28.0	0	33	3	0	57	4				
HAKODATE	1.85	251.2	0	31A	0	0	53	-1				
RUMOE	1.87	325.0	0	32	1	0	58	4				
MORI	1.91	260.9	0	32A	0	0	56	1				
NEMURO	2.03	62.9	0	35	2	0	57	-1				
SUTTSU	2.15	280.9	0	35	0	1	11	10				
HATINOHE	2.24	212.4	0	35	-1	0	53	-10				
AOMORI	2.37	228.1	0	38	0	1	2	-4				
MIYAKO	2.91	197.5	0	45	-1	1	11	-9				
MORIOKA	3.09	208.8	0	47	-1	1	19	-5				
AKITA	3.53	221.0	1	8	14							
MIZUSAWA	3.62	205.1	0	54	-2	1	35	-3				
ISINOMAKI	4.22	199.4	1	0	-4	1	43	-9				
SAKATA	4.32	216.3	1	2	-3							
SENDAI	4.48	202.8	1	4	-4	1	51	-8				
YAMAGATA	4.67	207.6	1	8	-2	1	54	-10				
HUKUSIMA	5.09	204.2	1	16	0							
NIIGATA	5.47	215.9	1	30	9	2	27	3				
ONAHAMA	5.73	198.0									2	6
SHIRAKAWA	5.75	203.7	1	22	-3	2	23	-7				
MI TO	6.38	199.5	1	29K	-5	2	38	-8				
UTUNOMIYA	6.38	204.1	1	31	-3	2	40	-6				
TAKADA	6.50	216.7	1	37	1	2	47	-2				
KAKIOKA	6.59	201.0	1	30	-7	2	42	-9				
TUKUBASAN	6.62	201.5	1	32A	-5	2	42	-10			4	54
MAEBASI	6.78	208.7	1	51	12	2	58	2				
NAGANO	6.89	215.0	1	43	2							
KUMAGAYA	6.90	205.9	1	40	-1	3	31	32				
MATUJIRO	6.99	214.4	1	39A	-3	2	46	-15			3	37
OIWAKE	7.04	211.5	1	48	5	3	14	12				
TITIBU	7.16	207.2	2	5	20	3	2	-3				

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1961		PAGE 620										
TOKYO C.M.O.	7.23	202.2									2	57
YOKOHAMA	7.49	202.2									3	5
KOHU	7.62	209.1	1	52	1							
HUNATU	7.70	207.4	2	12	20	3	14	-5				
MISIMA	7.99	205.3									2	55
AJIRO	8.00	204.3	1	52	-4	3	14	-12				
OSIMA	8.18	202.1									2	17
GIHU	8.58	217.2	2	11	7						3	5
OMAESAKI	8.70	207.7										
HIKONE	8.92	219.0	2	14	5							
KAMEYAMA	9.17	216.6	2	23	11							
ABUYAMA	9.57	220.4	2	15A	-3							
CHANGCHUN	13.08	282.2	3	3	-2							
PEKING	20.37	272.3	4	30	-4	8	10	-3				
LANCHOW	30.87	271.3	6	12	0							
KUNMING	37.33	255.5	7	7	-1							
LHASA	43.36	270.4	8	7	10							
COLLEGE	43.89	35.1	8	2	0				8	16	9	25 PCP
RESOLUTE	57.06	15.6	9	40A	-2							
SODANKYLA	60.52	336.6	10	4	-2							
QUETTA	60.68	285.4	10	7	0							
TROMSOE	61.05	340.7	10	8	-1							
KIRUNA	61.95	338.8	10	14	-1							
CHARTERS TS.	62.27	176.6	10	31	14							
NURMI JARVI	65.82	331.5	10	39A	-2							
HUNGRY HORSE	67.00	45.0	10	48	0							
TEHERAN	68.11	298.8	10	56	1							
UPPSALA	68.69	333.8	10	57A	-2							
SHIRAZ	71.08	293.0	11	13	0						11	36
EUREKA	71.52	53.2	11	16	0							
GOTEBORG	72.20	334.9	11	17	-3							
CHINA LAKE	72.88	57.0	11	24	4							
COPENHAGEN	73.69	333.4	11	26	-2							
COLLMBERG	77.07	330.5	10	48A	-60						11	28
PRUHONICE	77.56	328.9	11	51A	1						12	14
KASPERSCHE H.	78.62	328.9	11	57A	1						12	39
STUTTGART	80.51	331.1	12	6	0							
PARIS	82.76	335.0	12	20	2							
GARCHY	83.92	333.9	12	24	0							
WICHITA MTS.	84.73	46.7	12	29	1							
OTTAWA	85.95	26.3	12	34	0							
FAYETTEVILLE	85.98	43.1	12	35K	1							
WESTON	90.06	24.8	12	55A	1							
MAWSON	124.94	207.4	18	54	1							
SOUTH POLE	132.24	180.0	19	9	2							
BYRD STATION	132.72	166.4	19	9	1				19	33		

JULY 4 6.H 10.M 40.S EPICENTRE 18.02 146.71 DEPTH= 65.KM

A=-0.79539 B= 0.52233 C= 0.30746 D= 0.5489 E= 0.8359
G=-0.2570 H= 0.1688 K=-0.9516 HT= 5.1

DEPTH OF FOCUS= 0.005R

SE= 1.95

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
GUAM	4.91	203.0	1	11	-2	2	4	-5	1	32	4	20
TUKUBASAN	19.05	343.4	4	17	-2	7	44	-2			4	47 PPP
ABUYAMA	19.49	331.6	4	22	-2							
MATUSIRO	19.92	339.6	4	26A	-2	8	6	2			8	15 PCP
MI ZUSAWA	21.59	348.1	4	49	4	8	46	10				
RABAU	22.73	165.8	4	58	1							
MANILA	24.81	266.1	5	18	1	9	18	-14				
ZO-SE	26.54	304.2	5	32	-1							
PORT MORESBY	27.25	179.0	5	39	-1	10	12	0			6	31 PP
VLADIVOSTOK	27.99	336.5	5	50A	4	10	27	3				
NANKING	28.80	304.4	5	58	4							
Y.-SAKHLINSK	29.11	354.4	5	1	-55							
HONG KONG	30.80	283.4	6	19	8	11	15	6	7	13	7	44 PP
CHANGCHUN	31.42	329.6	6	15A	-2	11	13	-5				
DARWIN	34.03	208.5	6	39	0							
PEKING	34.28	316.2	6	40	-1	11	59	-4				
PETROPVLOVK	36.15	12.2	6	28	-29							
NHATRANG	36.61	266.3	7	4	3						8	35 PP

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1961

PAGE 621

SIAN	37.33	303.2	7 6	-1	12 46	-4			
CHARTERS TS.	37.87	180.7	7 12	0	12 55	-3			
PADTOW	38.69	313.3	7 18	-1					
CHENG TU	40.66	296.2	7 35	0	13 35	-5			
KUNMING	41.35	287.7	7 41	0	13 50	0			
MAGADAN	41.58	3.1	7 41	-2					
LANCHOW	41.82	304.2	7 45K	1					
KOUMAC	42.03	155.0	7 48A	2					
ULAN-BATOR	44.01	321.7	8 10	8					
NOUMEA	44.48	153.5	8 5A	-1					
BRISBANE	45.52	172.4	8 16	2	14 52	1			
YAKUTSK	45.55	348.9	8 19	4					
LEMBANG	45.81	240.8	8 16A	-1	14 50	-5			
SHILLONG	51.18	288.6	8 56K	-2					
RIVERVIEW	51.73	175.3	9 2A	0					
CANBERRA	53.09	177.7	9 12	-1			9 35	12 1	
ADELATIDE	53.24	188.2	9 14A	0					
TIKSI	54.63	353.2						10 8	
HAWAII V.OB.	54.74	78.6	9 25	0					
CHATRA	55.31	290.5	9 31A	2					
MELBOURNE	55.57	181.7	9 31	0					
MUNDARING	57.67	210.7	9 44	-2					
KARAPIRO	61.90	154.4	10 13	-2					
CHATEAU	62.99	155.1	10 21	-1					
ALMATA	63.23	309.9	10 22A	-1					
COLLEGE	63.47	25.7	10 23	-2			11 25	13 58 PP	
WELLINGTON	64.48	156.9	10 30	-2					
LAHORE	66.04	297.1	10 40	-2	19 20	-3			
ANDI JAN	66.73	307.2	10 45	-1	19 35	4			
KHEYS	72.12	350.1	11 18	-1	20 35	0			
QUETTA	72.52	296.7	11 21A	0	20 40	1	11 52	11 38 PCP	
SVERDLOVSK	72.99	325.0	11 23	-1					
VICTORIA	76.64	43.1	11 45	0					
CORVALLIS	77.58	47.0	11 52	2					
PENTICTON	78.89	41.7	11 58	1					
SHASTA	79.15	50.7	11 59	0					
MINERAL	79.82	50.9	12 1K	-1					
RESOLUTE	79.86	13.7	12 2	-1					
BERKELEY	79.96	53.5	12 17A	14					
LICK	80.57	53.9	12 7K	1					
VINEYARD	80.93	54.4	11 47	-21					
RENO	81.36	51.3	12 11	0					
FRESNO	82.14	54.0	12 15	0					
HUNGRY HORSE	82.71	41.6	12 20	2					
THULE	83.42	7.8	12 21	0					
TEHERAN	83.85	305.4	12 22	-1					
PASADENA	84.18	56.1	12 24	-1					
SODANKYLA	84.32	340.3	12 24A	-2					
BUTTE	84.42	43.5	12 26	0					
SHIRAZ	84.79	299.3	12 27K	-1	22 37	-12	12 53	15 42 PP	
TROMSOE	85.19	343.9	12 30	0					
MOSCOW	85.55	327.6	12 31	-1				27 58	
KAJAANI	85.79	337.3	12 31A	-2					
KIRUNA	85.94	342.1	12 32A	-2					
SALT LAKE C.	86.75	48.2	12 39	1					
GLEN CANYON	88.31	51.7	12 46	1					
FLAMING GRGE	88.43	47.4	12 46	0					
UMEA	88.59	339.1	12 46A	0					
NURMI JARVI	89.01	335.2	12 47A	-1				16 13 PP	
TUCSON	90.61	55.8	12 57	1				19 36	
LARAMIE	90.91	45.9	12 59	2				16 31	
RAPID CITY	91.29	42.6	13 0	1					
SKALSTUGAN	91.32	341.4	12 58	-1					
CAPE HALLETT	91.49	173.0	13 1K	1					
UPPSALA	92.14	336.9	13 1A	-2					
GOTEBORG	95.75	337.5	13 17	-3					
SCOTT BASE	96.38	175.8	13 24	2					
COPENHAGEN	97.05	335.9	13 24	-1					
WICHI TA MTS.	98.82	49.2	13 34	1	24 10	5		17 24 PP	
COLLMBERG	99.99	332.6	13 37K	-2			14 12	17 43 PP	
PRAGUE	100.22	331.0						17 34 PP	
PRUHONICE	100.23	330.9						17 46 PP	
HALLE	100.30	333.2	13 39	-1				17 46 PP	
JENA	100.88	333.0						17 50 PP	
FAYETTEVILLE	101.22	46.2	13 44	0					
KASPERSKA H.	101.27	330.7	13 43	-2				17 50 PP	
MUNSTER	101.73	335.6						17 57	
BENSBERG	102.69	335.1	13 50	-1				18 4 PP	

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1961

PAGE 622

LJUBLJANA	102.97	328.0	18 7	255		
STUTT GART	103.48	332.6	13 54	0		18 10 PP
MAWSON	104.17	203.1				18 15 PP
STRASBOURG	104.28	333.2	18 16	258		
GARCH	107.25	335.0	15 10	777		18 37 PP
ISOLA	107.96	330.7				18 38 PP
BYRD STATION	108.28	169.4				18 22 PP
PALISADES	110.22	31.7			25 16 20	28 26 PS
BAGNERES	111.88	334.2				19 11
BROKEN HILL	120.82	263.6	18 46A	2		
BANGUI	124.19	288.4	18 52	1		20 33 PP
SAN JUAN	131.53	43.4	19 15	10		22 26 PP
TRINIDAD	140.23	46.4	19 23	2		
ANTOFAGASTA	144.91	105.4	19 32	2		
LA PAZ	146.72	92.8	19 38	6		20 2

JULY 6 16.H 8.M 19.S EPICENTRE -7.33 -13.24 DEPTH= 0.KM

A= 0.96558 B=-0.22720 C=-0.12666 D=-0.2290 E=-0.9734
G=-0.1233 H= 0.0290 K=-0.9919 HT= 6.8

SE= 2.12

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MBOUR	21.88	350.3	4	55	-1	8	57	3				
WINDHOEK	32.90	120.7	6	39K	1							
BANGUI	33.85	70.9	6	48	2						7	54
BROKEN HILL	41.52	103.5	7	45	-6							
LWIRO	42.18	85.3	7	53	-3							
BULAWAYO	42.47	111.8	8	0	2							
GRANADA	45.18	10.9	8	20A	0	16	1	60			10	37 PP
ALICANTE	46.97	13.7	8	38	3	15	31	5			18	51 SS
TOLEDO	47.73	9.6	8	41	0	15	38	1			19	6 SS
BAGNERES	51.61	12.5	9	10	0							
LA PAZ	54.33	255.0	9	35	4							
ROME	54.35	23.5									26	39
ISOLA	54.45	17.9	9	32	1							
CLERMONT-FD.	54.85	14.0	9	35	1							
FLORENCE X.	55.49	21.4	9	55	16						25	9
GARCHY	56.26	13.3	9	44	-1						10	41
CARACAS	56.31	287.7									12	24
ATHENS	56.71	34.6	9	47	-1							
BESANCON	56.95	15.5	9	48	-2							
FOLINIERE	56.97	10.0	9	49	-1							
AREQUIPA	57.55	255.2	9	51	-3							
PARIS	57.58	12.3	9	55	1	17	48	-3				
TRIESTE	58.01	22.0	9	58	1							
LJUBLJANA	58.64	22.3	10	1	0						12	14 PP
STRASBOURG	58.65	16.2	9	58	-3							
STUTT GART	59.25	17.1	10	4	-2	18	10	-3				
JERUSALEM	60.41	47.1	10	17K	3							
BENSBERG	60.67	14.7	10	15	0						12	13 PP
KASPERSKE H.	60.92	19.8	10	17A	0						13	52
VIENNA-H.	61.17	22.1	10	19	0							
BRATISLAVA	61.38	22.7	10	21	1						12	34 PP
HURBANOVO	61.56	23.5	10	23	2							
BOGOTA	61.85	279.2	10	25	2	18	45	-1				
KSARA	61.95	45.5	10	29	5	18	50	2				
PRUMONICE	61.98	19.9	10	23	-1	18	48	0			12	51 PP
HALLE	62.47	17.5	10	29	1	18	9	-45				
COLLMBERG	62.61	18.2	10	28	0						12	40 PP
CHINCHINA	63.43	279.3	10	30	-4							
LWOW	65.49	25.5	10	48	1							
GOTEBORG	67.98	14.3	10	59	-4							
UPPSALA	71.31	15.9	11	22	-1							
SKALSTUGAN	73.31	11.6	11	33	-2							
NURMI JARVI	73.91	18.4	11	37	-2							
CHAPEL HILL	75.17	310.0	11	44	-2							
SHAWINIGAN	75.20	322.0	11	45A	-1							
MOSCOW	75.54	26.9	11	49	1							
COLUMBIA	76.05	307.6	11	51	0							
OTTAWA	76.52	320.0	11	52A	-2							
MORGANTOWN	77.15	313.3	11	57K	0							
MAWSON	77.98	157.6	12	1	-1							
SODANKYLA	79.76	14.6	12	11	0							

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1961

PAGE 623

TROMSOE	79.90	10.9	12 8	-4		
SOUTH POLE	82.72	180.0	12 27	0		
ST. LOUIS 1	84.48	310.0	12 35	-1		
QUETTA	85.24	58.9	12 44	4		
FAYETTEVILLE	87.01	306.8	12 47A	-2		
LAWRENCE	88.39	309.4	12 54	-1		
THULE	89.36	348.8	13 13	13		
WICHITA MTS.	90.32	304.8	13 3	-1	23 31	-26
RESOLUTE	94.81	344.7	13 24	-1		25 1 PS
CHARTERS TS.	146.10	143.8	19 45	4		

JULY 6 22.H 9.M 32.S EPICENTRE -20.59 169.28 DEPTH= 41.KM

A=-0.92056 B= 0.17426 C=-0.34957 D= 0.1860 E= 0.9826
G= 0.3435 H=-0.0650 K=-0.9369 HT= 4.5

DEPTH OF FOCUS= 0.001R

SE= 2.49

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
PORT VILA	2.98	342.1	0 46A	0				
NOUMEA	3.14	236.6	0 47K	-1				
KOUMAC	4.69	269.5	1 10K	0				
SUVA	8.97	75.9	2 13	3				
HONIARA	14.28	319.6	3 22	1				
RAOUL ISLAND	14.45	129.1	3 37	13				
BRISBANE	16.52	242.6	3 48	-2	7 0	8		
KARAPIRO	18.11	163.9	4 10	0				
AFIAMALU	19.26	72.8	4 20A	-4				
CHATEAU	19.32	165.2	4 26K	2				
TUAI	19.38	161.2	4 25	0	8 14	18		
COBB RIVER	20.64	172.6	4 36	-3	8 34	12		
RIVERVIEW	20.79	226.9	4 42K	2	8 35	10	4 52	5 9 PP
WELLINGTON	21.15	168.5	4 41	-3	8 38	6		
CHARTERS TS.	21.59	267.3	4 50	2	8 48	8		
KAIMATA	21.94	175.8	4 56	4	9 3	17		
CANBERRA	23.09	226.3	5 5K	2	9 10	3	5 14	5 34 PP
GEBBIES PASS	23.22	173.8	5 4	0	9 13	4		
RABAUL	23.29	312.1	5 7	2				
PORT MORESBY	24.06	294.3	5 13	1	9 28	4		
ROXBURGH	24.83	179.9	5 18	-2	9 40	3		
MELBOURNE	27.18	225.5	5 42	0			12 51	
FORT NELSON	28.89	214.6	6 5	8	10 46	3		
ADELAIDE	30.46	235.5	6 12K	1	11 9	1		7 12 PP
DARWIN	37.69	276.4	7 13	0				
GUAM	41.56	322.5	7 46	1	14 0	2	8 7	9 25 PP
MUNDARING	48.50	245.1	8 40	-1				
CAPE HALLETT	51.74	179.6	9 3K	-2	16 17	-6		10 56 PP
HONOLULU	52.44	39.4	9 11	0	16 44	12		21 10 SS
KIPAPA	52.58	39.3	9 10	-2				
HAWAII V.OB.	52.79	43.4	9 12	-1	16 43	6		
SCOTT BASE	57.32	180.6	9 46K	0	17 44	6		11 54 PP
MANILA	58.91	302.6	9 56	-1	17 56	-3		
WILKES	58.94	203.8	10 0K	2	17 57	-2		10 48 PCP
BAGUIO CITY	60.31	303.9	9 58	-9	18 16	-1		
LEMBANG	61.12	273.5	10 11A	-2	18 31	4		
OSIMA	61.95	332.3	10 17A	-1				
DJAKARTA	62.08	273.9	10 15A	-4	18 35	-4		
OMAESAKI	62.32	331.3	10 22	1				
YOKOHAMA	62.40	332.9	10 21A	0	18 45	2		
MI SIMA	62.44	332.2	10 20	-1				
TOKYO C.M.O.	62.57	333.1	10 22A	0	18 48	3		
OWASE	62.82	329.4	10 21	-3	18 44	-5		
HUNATU	62.84	332.2	10 23	-1				
KAKIOKA	62.86	333.8	10 24	0	18 53	4		
MI TO	62.87	334.1	10 24	0				
TUKUBASAN	62.88	333.7	10 23A	-1	18 51	2	10 33	12 38 PP
KOHU	63.07	332.2	10 25	-1	19 4	12		
TITIBU	63.11	332.8	10 25	-1				
KUMAGAYA	63.12	333.1	10 26	0				
ONAHAMA	63.18	334.7	10 26A	0				
UTUNOMIYA	63.26	333.7	10 27	0				10 56
IIDA	63.27	331.5	10 22	-5				
KAMEYAMA	63.33	330.1	10 28A	1	19 0	5		
SIMIDU	63.41	326.1	10 28	0	19 3	7		

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1961

PAGE 624

MAEBASI	63.47	333.0	10 26A	-2	18 54	-3	
NARA	63.50	329.5	10 28	0			
MIYAZAKI	63.57	324.3	10 34	5	19 6	8	
SHIRAKAWA	63.60	334.3	10 29	0			
OSAKA	63.62	329.2	10 30A	1			15 35
OI WAKE	63.63	332.6	10 30	1			
GIHU	63.65	330.7					10 51
SUMOTO	63.67	328.6	10 29	0	18 53	-6	
KOTI	63.72	327.0	10 31	1	18 53	-7	
ABUYAMA	63.78	329.4	10 30A	0			
HIKONE	63.78	330.2	10 31A	1	19 5	4	
KYOTO	63.82	329.6	10 41	11			12 4
MATUSIRO	63.96	332.4	10 30A	-1	19 6	3	12 58 PP
TAKAYAMA	64.05	331.5	10 21	-11			
NAGANO	64.07	332.5	10 33	1	19 1	-3	
TAKAMATU	64.07	327.9	10 30	-2			
HWALIEN	64.15	311.3	10 32K	-1			
TSURUGA	64.18	330.3	10 34	1			
ISINOMAKI	64.31	335.9	10 33	-1	19 9	2	
SENDAI	64.33	335.5	10 33A	-1	19 9	2	
MATUYAMA	64.34	326.7	10 34	0	19 12	5	
TAKADA	64.41	332.8	10 34	0	19 9	1	
HUKUI	64.43	330.7	10 40	6			
ALISHAN	64.44	310.4	10 37	3			
OOITA	64.47	325.4	10 35A	0	19 18	9	
YAMAGATA	64.53	335.0	10 35	0			
TOYAMA	64.53	331.8	10 35	0	19 10	0	
ILAN	64.57	312.1	10 37	2			
KUMAMOTO	64.65	324.5	10 35	-1	19 17	6	
TOYOOKA	64.67	329.3	10 36	0	19 16	5	
NIIGATA	64.77	333.9	10 37	0	19 19	6	
TAIPEI	64.90	312.1	10 38A	1	19 18	4	
HIROSIMA	64.93	326.8	10 37	-1			
MIZUSAWA	64.99	336.1	10 37	-1	19 20	5	
NAGASAKI	65.03	323.8	10 38A	0	19 20	4	
MIYAKO	65.13	337.0	10 38	-1	19 20	3	
SAGA	65.19	324.5	10 40	1			
WAZIMA	65.23	332.0	10 39	-1			
SAKATA	65.29	335.0	10 42	2			
HUKUOKA	65.40	324.8	10 39	-2	19 24	4	
MORIOKA	65.47	336.4	10 41A	0	19 17	-4	
AKITA	65.89	335.7	10 43A	-1	19 33	7	
HATINOHE	66.06	337.2	10 46	1			
AOMORI	66.59	336.8	10 50	2	19 39	4	
BYRD STATION	66.62	169.6	10 46	-2	19 34	-1	
URAKAWA	67.06	338.9	10 53	2			
NEMURO	67.23	341.5	10 51	-1			
KUSIRO	67.28	340.4	10 52	-1			
NHATRANG	67.45	293.5	10 49A	-5	19 46	1	
OBHIRO	67.61	339.6	10 55	0			
MORI	67.79	337.3	10 59	3	19 56	7	
SAPPORO	68.36	338.3	10 50	-9	19 51	-5	
SUTTSU	68.52	337.4	10 58	-2	19 56	-2	
HONG KONG	68.63	305.3	11 1	0	19 58	-1	
ZO-SE	69.08	316.9	11 3A	-1	20 6	1	
SOUTH POLE	69.54	180.0	11 6	-1			
CANTON	69.70	305.6	11 9A	1	20 18	6	
WAKKANAI	70.33	339.7					20 23
NANKING	71.26	316.2	11 17A	0	20 33	3	
Y.-SAKHLINSK	71.43	341.2	11 18	0	20 35	3	11 32 PCP
VLADIVOSTOK	72.12	332.2	11 23	1			14 4 PP
MEDAN	73.21	280.5	11 27A	-2	20 54	2	
PETROPAVLOVK	73.88	353.3	11 32	0	21 2	2	11 41 PP
CHANGCHUN	75.71	328.8	11 44A	1	21 15	-5	
MAWSON	77.20	202.2	11 51A	0	21 38	1	16 44 PPP
PEKING	78.00	321.1	11 56A	0	21 50	5	
KUNMING	79.02	302.1	12 2A	1	22 1	5	
SIAN	79.17	312.9	12 3A	1	22 2	4	
KERGUELEN I.	80.42	220.9	12 10	1	22 7	-4	15 4 PP
CHENG TU	80.77	307.5	12 12A	1	22 18	4	
MAGADAN	81.27	350.6	12 12	-1	22 18	-1	
PORT BLAIR	81.78	285.7	12 17	1	22 23	-2	
PAOTOW	82.05	318.6	12 18A	0	22 33	6	
LANCHOW	83.65	312.1	12 27A	1	22 47	3	
ARGENTINE I.	85.25	160.1	12 31	-3			
TOCKLAI	86.14	300.3	11 57A	-41			
STA. CRUZ C.	86.40	48.4	12 40A	1			
SAN FRANCISCO	86.46	47.5	12 41	1			

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1961

PAGE 625

BRANNER	86.48	47.9	12 40A	0				
UKIAH	86.61	46.0	12 43	3				
BERKELEY	86.64	47.5	12 41A	1	23	0	-13	16 6 PP
VINEYARD	86.72	48.8	12 41A	0				
CHITTAGONG	86.79	295.2	12 41	0	23	22	8	12 55 23 46 *SS
LICK	86.82	48.2	12 42A	1				
CONCORD	86.82	47.5	12 43A	2				
PASADENA	87.84	52.3	12 45A	-1	23	30	6	16 14 PP
FRESNO	87.85	49.4	12 48A	2				
SHASTA	87.94	45.0	12 47A	0				
SHILLONG	88.03	298.1	12 46A	-1	23	11	-15	16 36 PP
ULAN-BATOR	88.08	323.4	12 48	1				16 14
YAKUTSK	88.14	342.5	12 46	-2				16 7 PP
MINERAL	88.29	45.6	12 48A	0				
RENO	89.12	47.0	12 53A	1				
CORVALLIS	89.28	41.3	12 53A	0				
SITKA	90.11	26.7	12 56	-1	23	48	3	
LHASA	90.33	301.5	13 0A	2	23	54	7	23 28 SKS
ALBERNI	90.78	36.7	13 1	1				
BOULDER CITY	91.10	51.9	13 2	0				38 39 PKPPKP
VICTORIA	91.20	37.9	13 2A	0				
COLLEGE	91.32	16.9	13 0	-3	23	25	-31	15 56 PP
EUREKA	91.76	48.3	13 16	11				
IRKUTSK	91.84	326.1	13 4	-1	23	35	-25	24 1 SKKS
CHATRA	92.41	297.6						24 35
BOKARD	92.47	294.4	13 9A	1	23	39	-27	24 13
VISHAKHAPTNM	92.47	287.9			24	40	34	17 33 PP
TUCSON	92.65	56.6	13 9	0	24	18	10	28 43 PKKP
TUCSON TELE.	92.77	56.6	13 10	1	23	12	-57	17 0 PP
MADRAS	93.66	282.4	13 15A	2	23	48	-28	17 0 PP
GLEN CANYON	93.89	52.0	13 16	2				
CHIHUAHUA	95.15	61.5						22 2
SALT LAKE C.	95.16	48.4	13 18	-2				26 6 PS
KODAIKANAL	95.21	278.9						24 8
HUNGRY HORSE	96.69	40.8	13 26	-1				17 21 PP
BUTTE	96.70	43.4	13 28	1	23	59	0	26 23 PS
HYDERABAD	96.72	286.0	13 18	-9	24	0	0	24 51 PS
BANFF	96.93	37.8	12 15	-73				
FLAMING GRGE	96.96	49.0	13 27	-1				30 11 PKKP
BOZEMAN	97.55	44.1	13 31	0				
TACUBAYA	97.98	72.3			25	0	54	17 20 PP
LARAMIE	99.79	49.6	13 41	0				17 44
LUBBOCK	100.20	58.0	13 42	-1				17 47
VERA CRUZ	100.67	73.5			24	32	12	32 40 SS
DEHRA DUN	101.13	298.2	13 47	0	24	27	5	19 20
POONA	101.22	285.6	13 59	11	24	27	5	18 7 PP
BOMBAY	102.26	285.7			24	28	1	18 10 PP
WICHITA MTS.	103.11	57.7	13 55	-1	24	28	-3	18 5 PP
SEMIPALATNSK	104.98	318.5	14 3	-1	24	42	2	25 55 SCS
FAYETTEVILLE	106.94	57.3	14 15	777	24	49	1	17 49 PP
FRUNSE	107.03	309.9	14 14	777	24	57	8	18 38 PP
WARSAK DAM	107.41	300.4	14 30	777				
HUANCAYO	108.69	111.1	18 28	777				28 17
AREQUIPA	109.91	117.1	14 33	777				
QUETTA	110.37	295.5	18 30	2				14 30 P
TASHKENT	110.64	307.6	14 27	-241				19 5 PP
RESOLUTE	111.24	16.5	18 28	-1				14 32 P
LA PAZ	112.67	118.8	18 37	5	25	14	2	
BALBOA HTS.	112.84	88.7	17 17	-75				19 20 PP
KHEYS	113.61	350.4	18 34	0				19 25 PP
CHINCHINA	115.22	94.3	18 36K	-1	25	23	1	29 22 PS
BOGOTA	116.54	95.2	18 43	3	25	42	15	19 49 PP
FUQUENE	117.15	94.5						19 52 PP
SVERDLOVSK	117.18	324.2	18 41	0	25	31	2	19 44 PP
COLUMBIA	117.18	61.6	18 41	0				29 42 PKKP
THULE	117.28	13.0	18 40	-1				14 6 P
CLEVELAND	117.52	53.1			25	28	-2	29 40 PS
HERMANUS	118.32	208.0						20 11 PP
MORGANTOWN	118.60	55.3	18 44K	0				20 0 PP
ASHKABAD	118.60	302.8	18 45	1	27	8	94	20 1 PP
KIMBERLEY	120.17	216.1	18 47K	0				
PENNSYLVANIA	120.25	54.1	18 51	4				20 17 PP
OTTAWA	121.81	48.7	18 48A	-2				
SHIRAZ	122.63	292.6	18 49	-2	26	0	12	19 11 20 28 PP
PALISADES	123.25	53.9	18 54	1				20 31 PP
SHAWINIGAN	123.78	47.2	18 41	-13				
TEHERAN	124.04	299.8	18 56	2				20 39 PP
BULAWAYO	124.15	226.0	18 40	-14				

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1961

PAGE 626

WESTON	125.14	52.1	18 54A	-2				20 42 PP
SODANKYLA	127.63	342.8	18 51	-10				21 0 PP
TROMSOE	127.77	347.3	18 59	-2				21 10 PP
SAN JUAN	127.93	82.3	19 1	-1				
GORIS	128.01	304.5	19 3	1				21 9 PP
BROKEN HILL	128.08	231.1	18 57	-5				
TIFLIS	128.96	307.5	19 5	1				22 28 SKP
WINDHOEK	129.24	213.8	19 6	2				
KAJAANI	129.54	339.3	19 1	-4				21 9 PP
MOSCOW	129.83	326.6	19 5	0				21 9 PP
TRINIDAD	130.37	93.4	18 57	-9				22 25
HALIFAX	130.43	48.4	19 6A	0				22 25
GRENADA	130.48	91.6	19 4	-3				
ST. KITTS	130.87	84.5	19 10	3				
ST. VINCENT	131.22	90.3	18 57	-11				22 29
PULKOVO	131.23	333.8	19 7	-1				24 15 PPP
DOMINICA	131.65	87.6	19 10	1				
ANTIGUA	131.66	85.0	19 3	-6				22 32
FORT FRANCE	131.74	88.4	19 13	4				22 41
BARBADOS	132.77	91.0	19 14	3				
NURMI JARVI	132.98	336.9	19 1	-10	26 19	3		21 37 PP
SKALSTUGAN	134.30	345.9	19 4	-10				22 39 PKS
LWIRO	135.12	244.3	19 2	-13				21 52 PP
REYKJAVIK	135.84	7.0	19 18K	1				21 56 PP
SIMFEROPOL	135.88	314.0	19 17	0	26 22	1		21 58 PP
UPPSALA	135.89	339.9	19 2	-15				21 53 PP
SIDA	136.55	4.7	19 19K	1				
KSARA	136.85	297.8	19 16	-2	26 40	17		22 5 PP
JERUSALEM	137.57	294.9	19 16	-4				22 11 PP
IASI	139.21	319.7	19 26	3				23 1
GOTEBORG	139.38	341.4	19 14	-9				22 55 PKS
LWOW	139.90	325.0	19 18	-6				22 18 PP
WARSAW	139.97	329.8	19 25	1				22 24 PP
ISTANBUL KA.	140.63	310.3	19 15	-10	26 25	-4	19 40	22 25 PP
ISTANBUL UN.	140.70	310.3	19 26	0				22 31 PP
COPENHAGEN	140.89	339.3	19 18	-8				22 40 PP
HELWAN	141.03	292.3	19 22	-4				22 28 PP
BUCHAREST	141.38	316.5	19 22	-5				23 16 PKS
KRAKOW	141.89	327.8	19 22	-6				22 30 PP
CHORZOW	142.20	328.8	19 24	-4		19 39		22 35 PP
SKALNATE PL.	142.27	326.5	19 27	-1				22 36 PP
LUANDA	142.44	221.2	19 26K	-3				22 40 PP
RACIBORZ	142.72	329.0	19 26	-3		21 49		21 40 PP
ABERDEEN	142.92	352.2	19 26	-3				22 36 PP
TIM SOARA	143.73	321.2	19 28	-3				24 28
SOBIA	143.95	315.5	19 31	0				23 10 PP
BUDAPEST	143.97	325.1	19 33	2				22 30 PP
COLLMBERG	144.16	334.5	19 30A	-1				22 49 PP
HURBANOVO	144.16	326.2	19 34	3				22 48 PKS
HALLE	144.42	335.5	19 31	-1				22 38 PP
PRAGUE	144.47	331.9	19 31	-1				36 30 PPS
PRUHONICE	144.48	331.7	19 32A	0				22 50 PP
BRATISLAVA	144.53	327.4	19 34K	2				22 54 PKS
BELGRADE	144.70	320.4	19 33A	1				26 33 PPP
VIENNA-H.	144.84	328.1	19 34A	1				23 1 PP
JENA	145.01	335.2	19 33	0	26 16	-20		22 48 PP
WITTEVEEN	145.13	341.5	19 33A	0				23 11 PP
CHEB	145.34	333.6	19 42	8				22 56 PP
KASPERSKE H.	145.54	331.5	19 35A	1				22 48 PP
MUNSTER	145.57	339.9	19 34	0				22 30
ATHENS	145.57	307.8	19 35A	1				
DE BILT	146.20	342.3	19 36	1				23 1 PP
BENSBERG	146.58	339.3	19 36A	0				23 6 PP
ZAGREB	146.64	325.2	19 36	0				20 19 PP
TITOGRAD	146.70	317.6	19 38	2				23 9 PP
BANGUI	147.24	244.5	19 37	0				23 6 PP
LJUBLJANA	147.25	326.7	19 36A	-1				22 59 PP
HEIDELBERG	147.34	336.2	19 37	0				
STUTTGART	147.63	335.0	19 37A	0				23 12 PP
KARLSRUHE	147.77	336.1	19 40	2	26 59	19		
TUBINGEN	147.91	334.9	19 38	0				
TRIESTE	147.92	326.8	19 38A	0				19 43 PKP2
KEW	148.12	347.7	19 38	0				23 11 PP
EBINGEN	148.23	334.6	19 38	0				
RAVENSBURG	148.28	333.5	19 38	0				
STRASBOURG	148.37	336.3	19 38A	-1	26 51	10		23 5 PP
TARANTO	149.01	316.0						20 9
PADOVA	149.03	328.3	19 42	2				30 3 SKKS
CHUR	149.04	332.5	19 45	5				

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1961

PAGE 627

BASLE	149.30	335.4	19 40A	0				31 27	PCSPKP
PARIS	149.91	342.5	19 48	7				23 22	PP
BOLOGNA	149.95	327.6	19 52	11				21 28	
NEUCHATEL	149.98	335.5	19 41	0					
BESANCON	150.14	336.8	19 41	0				23 24	PP
PAVIA	150.49	330.8	19 40	-2				24 0	
FLORENCE X.	150.50	326.6	19 42A	0	26 56	12			
PRATO	150.51	326.9	19 47	5				24 16	PP
JERSEY	150.65	348.4	19 51A	9				20 33	
FOLINIERE	150.71	346.1	19 42	0					
CHIAVARI	151.07	329.4	19 45	2			20 56	24 26	PP
ROME	151.10	322.5	19 40A	-3				23 13	PP
GARCHY	151.11	340.4	19 50	7	26 48	4		23 26	PP
REGGIO CALA.	151.29	313.2	19 50	7				23 36	
MESSINA	151.31	313.4	19 41A	-2			19 49	23 15	PP
ISOLA	152.22	331.9	19 45	1				19 53	PKP2
MONACO	152.40	330.8	19 45	0				23 39	PP
CLERMONT-FD.	152.43	338.8	19 46A	1				23 37	PP
BAGNERES	155.80	340.3	19 49A	0				30 25	
TORTOSA	157.68	337.1	19 57	5				24 3	PP
SERRA PILAR	159.44	355.4	19 54K	0	26 55	2		24 13	PP
TOLEDO	159.94	344.9	19 55A	1	26 36	-18		24 20	PP
ALICANTE	160.21	335.6	19 56	1	27 3	9		24 18	PP
COIMBRA	160.35	354.8	19 55A	0				24 17	PP
LISBON	161.88	356.1	19 56K	0				24 31	PP
ALMERIA	162.27	337.8	20 2A	5				24 34	PP
GRANADA	162.34	341.0	19 54K	-3	27 6	10		24 30	PP
MBOUR	171.42	135.0	20 6	2				25 17	PP

JULY 7 13.H 10.M 46.S EPICENTRE -6.02 149.81 DEPTH= 31.KM

A=-0.85963 B= 0.50018 C=-0.10421 D= 0.5029 E= 0.8643
G= 0.0901 H=-0.0524 K=-0.9946 HT= 7.0

SE= 2.80

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
RABAU	2.97	52.6	0	47	1							
PORT MORESBY	4.27	217.9	1	4	-1	1	55	1				
HONIARA	10.61	109.2	2	32	-1							
CHARTERS TS.	14.40	193.5	3	22	-2	6	15	12				
DARWIN	19.76	250.0	4	30	0	8	13	7				
GUAM	20.00	345.4	4	34	1	8	25	14				
KOUMAC	20.15	137.2	4	32	-3	8	24	10				
BRISBANE	21.44	172.8	4	46	-2	8	40	1				
PORT VILA	21.50	124.4	4	47	-1	8	49	9				
NOUMEA	22.81	136.8	5	0	-1	9	9	5				
RIVERVIEW	27.70	177.6	5	50A	2	10	25	-1	6	3	6	35
CANBERRA	29.17	181.4	5	58	-3	10	52	2	6	15	11	13
ADELAIDE	30.57	198.1	6	14	1	11	16	4			8	8
MELBOURNE	31.97	187.2	6	28	2	11	39	5				
MANILA	35.13	306.1	6	52	-1	12	22	-1				
MOORLANDS	36.34	183.3	7	7A	4							
FORT NELSON	36.82	183.0	7	9	2	12	52	3				
AFIAMALU	38.59	104.7	7	19	-3	13	10	-6			8	39
KARAPIRO	39.44	147.3	7	28	-1							
TAWU	39.95	315.8									8	22
CHATEAU	40.38	148.6	7	42	5							
HWALIEN	40.55	318.3	7	47	9							
MUNDARING	40.62	226.2	7	38	-1	13	48	2				
TAIPEI	41.35	319.4	7	48	3	14	23	26				
WELLINGTON	41.58	151.4	7	50	3	14	3	2			9	42
LEMBANG	41.92	266.5	7	44	-6	13	54	-12				
GEBBIES PASS	42.57	155.4	7	54	-1							
DJAKARTA	42.73	267.4									8	33
ROXBURGH	42.81	159.8										
ABUYAMA	42.83	342.7	7	56A	-1							
TUKUBASAN	42.99	348.5	7	56A	-2	14	9	-12			17	47
MATUSIRO	43.71	346.5	8	2A	-2	14	25	-7			10	0
NHATRANG	44.24	294.2	8	13	5	14	38	-2				
HONG KONG	44.83	310.1	8	14	1	14	46	-2				
HIZUSAWA	45.64	350.6	8	22	2	14	55	-5				
CANTON	45.90	310.4	8	21	-1	15	2	-1				
ZO-SE	45.95	325.1	8	21	-1	15	3	-1				
NANKING	48.04	323.9	8	38	-1	15	28	-6				

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1961		PAGE 629											
COPENHAGEN	120.02	333.7	19	50	62						20	8	PP
RACIBORZ	120.34	326.1									28	9	
LWIRO	120.52	263.8	15	22	-207								
BELGRADE	121.47	319.8	18	50A	-1						20	24	
BRATISLAVA	121.94	324.6	18	37	-15								
PRUHONICE	122.39	327.4	18	52A	0						30	19	SKSP
PRAGUE	122.40	327.6									19	52	
COLLMBERG	122.43	329.4	18	51	-2						20	35	PP
JENA	123.37	329.7	18	56	2						20	38	PP
ZAGREB	123.79	322.6									20	41	
OTTAWA	124.39	37.5	18	54	-2								
ABRDEEN	124.43	341.9				26	17	21			20	46	PP
LJUBLJANA	124.54	323.5	18	56	-1						20	37	PP
MUNSTER	124.61	332.6	18	51	-6						22	37	
PENNSYLVANIA	125.18	43.4	19	3	5						20	48	PP
COLUMBIA	125.44	52.2	19	0	2								
BENSBERG	125.50	331.9	19	1	3						20	50	PP
SHAWINIGAN	125.51	35.0	18	57	-2								
DE BILT	125.61	333.9	19	2	3						21	56	PP
STUTTGART	125.88	328.7	19	0	1						20	47	PP
KARLSRUHE	126.17	329.4	19	2	2						31	4	PS
PADOVA	126.45	324.1									21	4	PP
STRASBOURG	126.77	329.3	19	3	2						20	56	PP
FLORENCE X.	127.72	322.7	19	2	-1						20	59	PP
PALISADES	127.74	41.4	19	7	4						21	3	PP
ROME	127.97	320.1	19	5	2						21	3	PP
KEW	128.37	336.6	19	5	1						21	1	PP
BESANCON	128.55	329.1	19	5	1						22	41	
WESTON	128.69	38.6	19	2K	-3						21	9	PP
PARIS	129.17	332.6									22	39	PKS
ISOLA	129.94	325.4	19	10	3						22	28	PP
GARCHY	129.98	330.8									20	6	PP
MONACO	130.00	324.7	19	3	-4						21	25	
CLERMONT-FD.	131.01	329.4	19	14	5						21	32	PP
BANGUI	131.37	270.5	19	11	1				19	24			
HUANCAYO	131.66	111.9	19	12	2						22	40	PP
HALIFAX	131.75	31.8	19	11	1								
BAGNERES	134.42	328.8	19	19	4						21	6	PP
CHINCHINA	134.78	89.0	19	19	3						22	49	PKS
BOGOTA	136.30	89.6	19	24	5						22	11	PP
LA PAZ	136.31	121.4	19	31	12						23	1	PKS
FUQUENE	136.69	88.4	19	25	5						22	8	PP
ALICANTE	138.04	324.4	19	23	1								
TOLEDO	138.90	328.9	19	23	-1	26	46	17			22	19	PP
SERRA PILAR	140.07	334.3	19	22	-4						22	19	PP
ALMERIA	140.21	324.3	19	31	5						23	0	PP
GRANADA	140.63	325.7	19	28K	1	25	49	-43			23	1	PP
LISBON	142.28	332.7	19	34K	4								
SAN JUAN	142.89	67.4	19	28	-3						23	29	PP
CARACAS	143.39	80.5	19	28	-4	26	37	1					
ST. KITTS	146.27	67.7	19	38	1								
ANTIGUA	147.15	67.6	19	39	1								
DOMINICA	148.02	70.7	19	42	3								
GRENADA	148.30	76.9	19	41	1								
FORT FRANCE	148.38	71.7									19	47	
ST. VINCENT	148.57	74.6	19	43	3								
TRINIDAD	148.79	79.4	19	44	3						20	0	PKP2
BARBADOS	150.18	74.1									19	57	PKP2
MBOUR	164.57	303.6	20	3	2						21	0	PKP2

JULY 7 22.H 19.M 34.S EPICENTRE -20.11 168.99 DEPTH= 55.KM

A=-0.92247 B= 0.17949 C=-0.34180 D= 0.1910 E= 0.9816
G= 0.3355 H=-0.0653 K=-0.9398 HT= 4.7

DEPTH OF FOCUS= 0.004R

SE= 2.43

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PORT VILA	2.45	344.9	0	38A	-1	1	10	2				
NOUMEA	3.22	227.0	0	47K	-2							
KOUMAC	4.44	263.4	1	5K	-2							
SUVA	9.13	79.2	2	16	4	4	11	17				
HONIARA	13.75	319.3	3	15	1							

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1961

PAGE 630

BRISBANE	16.50	240.9	3 46	-3	7 1	11		
KARAPIRO	18.65	163.6	3 46	-29				
AFIAMALU	19.39	74.5	4 24	0	8 20	26		
CHATEAU	19.85	164.9	4 28	-1				
RIVERVIEW	20.92	225.6	4 41K	1	8 32	7	4 50	8 40 PCP
CHARTERS TS.	21.35	266.1	4 47	3	8 40	7		
WELLINGTON	21.67	168.1	4 51	4				
RABAU	22.77	311.8	4 55	-3				
CAMBERRA	23.23	225.1	5 2	-1	9 16	9		5 36
PORT MORESBY	23.62	293.6	5 8	-1	9 28	14		
GEBBIES PASS	23.72	173.4	5 7	-1				
ROXBURGH	25.30	179.5			10 3	21		
MELBOURNE	27.32	224.6	5 50	9				
ADELAIDE	30.50	234.6	6 14	4				
GUAM	41.01	322.5	6 26	-73				8 33 PCP
MUNDARING	48.45	244.7	8 40	1				
CAPE HALLETT	52.22	179.5	9 6K	-1	16 24	-2	9 16	
SCOTT BASE	57.79	180.6	9 47K	-1	17 44	3	9 57	12 16 PP
MANILA	58.42	302.5	9 51	-1	17 45	-4		
LEMBANG	60.82	273.4	10 12A	3	18 26	6		
DJAKARTA	61.78	273.8						18 25
MATUSIRO	63.41	332.6	10 25A	-1	18 56	3		
MIRNY	66.15	205.1	10 42	-2	19 27	0		
NHATRANG	67.01	293.4	10 48	-1				
BYRD STATION	67.13	169.7	10 47	-3				
HONG KONG	68.13	305.3			19 58	8		
ZO-SE	68.55	316.9	10 59A	0	20 0	5		
CANTON	69.21	305.6	11 5	2	20 11	8		
SOUTH POLE	70.01	180.0	11 6	-2				
NANKING	70.72	316.3	11 12A	0	20 26	5		
PETROPAVLOVK	73.37	353.5	11 26	-2				
CHANGCHUN	75.17	328.9	11 38A	0	21 16	5		
PEKING	77.46	321.2	11 51A	0	21 43	7		
MAWSON	77.54	202.2	11 51A	0	21 39	2	12 0	PCP
KUNMING	78.53	302.2	11 59A	2	21 56	8		
SIAN	78.64	312.9	11 59A	2	21 55	6		
CHENG TU	80.27	307.6	12 7A	1	22 12	6		
LANCHOW	83.13	312.2	12 23A	2	22 43	8		
ARGENTINE I.	85.79	160.2	12 33	-1				
BERKELEY	86.52	47.6	12 38A	0				
VINEYARD	86.61	49.0	12 39A	1				
LICK	86.71	48.3	12 39A	0				
ULAN-BATOR	87.54	323.5	12 43	0				
SHILLONG	87.56	298.2	12 44A	1				
FRESNO	87.75	49.5	12 44	0				
PASADENA	87.77	52.5	12 43	-1	24 39	79		
SHASTA	87.80	45.1	12 44	0				
RENO	89.00	47.1	12 51	1				
CORVALLIS	89.10	41.4	12 50	0				
LHASA	89.85	301.6	12 56A	2	23 42	3		
COLLEGE	90.94	17.0	12 56	-3			13 6	40 53 PKPPKP
VICTORIA	90.98	37.9	12 59A	0				
BOULDER CITY	91.02	52.0	13 0	1				40 17 PKPPKP
EUREKA	91.64	48.4	13 2	0				40 22 PKPPKP
TUCSON	92.62	56.7	12 57	-10				40 22 PKPPKP
TUCSON TELE.	92.74	56.7	13 8	1				40 24 PKPPKP
PENTICTON	93.57	38.4	13 11	0				
GLEN CANYON	93.81	52.1	13 12	0				40 43 PKPPKP
HUNGRY HORSE	96.51	40.9						40 55 PKPPKP
FLAMING GRGE	96.85	49.0	13 25	-1				40 50 PKPPKP
BOZEMAN	97.40	44.1						40 57 PKPPKP
WICHITA MTS.	103.09	57.7	13 55	1				27 21 PS
SVERDLOVSK	116.63	324.3	18 40	2				
KIMBERLEY	120.39	216.5	18 45	0				
SHIRAZ	122.20	292.9	18 58K	9				20 15 PP
PALISADES	123.19	53.6						20 27 PP
SHAWINIGAN	123.66	46.9	18 50A	-1				
SODANKYLA	127.10	342.8	18 57	-1				
TROMSOE	127.25	347.3	18 58	0				
KAJAANI	129.00	339.3	19 1	-1				
MOSCOW	129.28	326.7	19 14	12				
HALI FAX	130.31	48.1	19 5K	1				
NURMIJARVI	132.44	337.0	19 9	1				22 31 SKP
SKAL STUGAN	133.78	345.8	19 10	-1				
UPPSALA	135.35	339.9	19 15	1				22 44 PKS
KSARA	136.39	298.2	19 18	2				22 4 PP
JERUSALEM	137.12	295.3	19 18A	1				22 6 PP
COPENHAGEN	140.35	339.3	19 30	7				22 23 PP
MELWAN	140.60	292.8	19 35	12				

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1961					PAGE 631				
RACIBORZ	142.17	329.2	19 21	-5					21 35
SOFIA	143.42	315.8	19 28	0					23 4 PP
COLLMBERG	143.61	334.5	19 27A	-1					24 8 SKP
HALLE	143.87	335.6	19 28	-1					22 29 PP
PRAGUE	143.92	332.0	19 28	-1					
PRUMONICE	143.94	331.8	19 28A	-1					22 47 PP
BRATISLAVA	143.98	327.6	19 29	0					
VIENNA-H.	144.29	328.2	19 29A	-1					22 59
JENA	144.46	335.3	19 30	0	19 49				21 56 PP
WITTEVEEN	144.59	341.4	19 30	0					
CHEB	144.80	333.7	19 37	6					
KASPERSKE H.	144.99	331.5	19 32A	1					22 51 PP
MUNSTER	145.03	339.8	19 31	0					
ATHENS	145.07	308.2	19 32K	1					
DE BILT	145.66	342.2	19 35	3					
BENSBERG	146.04	339.3	19 33	0	19 58				23 20 PP
ZAGREB	146.09	325.3	19 35A	2					
LJUBLJANA	146.71	326.9	19 34A	0					22 54 PP
HEIDELBERG	146.79	336.3	19 36	2					
STUTTGART	147.08	335.0	19 34	0					
KARLSRUHE	147.23	336.1	19 32	-3					
TUBINGEN	147.36	335.0	19 38A	3					
TRIESTE	147.37	327.0	19 35	0					
KEW	147.60	347.5	19 39	4					19 49 PKP2
EBINGEN	147.68	334.7	19 39	4					
RAVENSBURG	147.73	333.6	19 39	3					
STRASBOURG	147.82	336.3	19 36	0					
PADOVA	148.49	328.4	19 46	9					21 31
CHUR	148.49	332.6	19 41	4					
BASLE	148.76	335.4	19 42A	5					
PARIS	149.38	342.4	19 44	6					
NEUCHATEL	149.44	335.5	19 44	6					
BESANCON	149.60	336.8	19 44A	6					
FLORENCE X.	149.95	326.8	19 39	0					
FOLINIERE	150.18	345.9	19 46	7					
ROME	150.56	322.7	19 41	1					
GARCHY	150.57	340.3	19 46	6					19 56 PKP2
MESSINA	150.78	313.8	19 45	5					
ISOLA	151.67	332.0	19 49A	7					23 37 PP
MONACO	151.85	330.9	19 49	7					
CLERMONT-FD.	151.88	338.7	19 50	8					
BAGNERES	155.26	340.2	19 48	2					
TOLEDO	159.41	344.6	18 49	-63				20 31	20 41 *PPKP2
GRANADA	161.80	340.7	20 39A	45	27 28 36				24 28 PP

JULY 8 2.H 35.M 21.S EPICENTRE -20.12 168.72 DEPTH= 34.KM

A=-0.92159 B= 0.18384 C=-0.34186 D= 0.1956 E= 0.9807
G= 0.3353 H=-0.0669 K=-0.9397 HT= 4.6

DEPTH OF FOCUS= 0.000R

SE= 2.94

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
PORT VILA	2.40	350.9	0	37A	-1	1	9	3				
NOUMEA	3.03	223.8	0	43K	-4							
KOUMAC	4.19	263.2	1	2K	-1							
SUVA	9.39	79.6	2	20	4	4	29	28				
HONIARA	13.58	320.2	3	18	5							
BRISBANE	16.28	240.6	3	43	-5	6	47	0				
AUCKLAND	17.52	163.6	4	4	1	7	19	4				
KARAPIRO	18.72	163.0	4	18	0							
AFIHALU	19.63	74.7	4	30	2	7	37	-25				
RIVERVIEW	20.74	225.2	4	39	-1	8	22	-3			8 42	SS
CHARTERS TS.	21.09	266.2	4	44	0	8	41	9				
WELLINGTON	21.72	167.6	4	51	1	8	44	1				
RABAUL	22.59	312.3	5	9	10							
CANBERRA	23.05	224.8	5	5	2	9	15	8			6 3	
PORT MORESBY	23.39	294.0	5	7	1	9	21	8				
GEBBIES PASS	23.75	172.9	5	13	3							
ROXBURGH	25.30	179.0	5	27	2	9	51	5				
MELBOURNE	27.14	224.4	5	46	4	10	7	-9				
FORT NELSON	28.98	213.5				10	54	8				
ADELAIDE	30.29	234.5	6	12	2							

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1961

PAGE 632

DARWIN	37.11	276.0	7	8	-1				
GUAM	40.86	322.8	6	20	-80				
MUNDARING	48.22	244.7	8	42	3				
CAPE HALLETT	52.21	179.4	9	8	-2	16	36	5	11 10 PP
HONOLULU	52.41	40.1	9	8	-3	16	45	12	
HAWAII V.OB.	52.82	44.1	9	12	-2	17	4	25	
SCOTT BASE	57.79	180.5	9	48	-2	17	50	5	11 56 PP
MANILA	58.21	302.7	10	3	10	17	57	6	
WILKES	59.16	203.5	10	1A	1	18	1	-2	21 57 SS
BAGUIO CITY	59.61	304.0	10	6	3	17	8	-61	
LEMBANG	60.57	273.5	10	10	1	18	22	1	
ABUYAMA	63.10	329.7	10	27A	1				
MATUSIRO	63.29	332.8	10	29A	1	19	1	5	
MIRNY	66.04	205.1	10	43	-2	19	29	0	
NHATRANG	66.78	293.6	10	54	4				11 25
BYRD STATION	67.17	169.6	10	57	4				
ZO-SE	68.38	317.1	11	0	0	19	57	-1	
CANTON	69.00	305.7	11	5	1	20	10	5	
SOUTH POLE	70.01	180.0	11	7	-3				
NANKING	70.55	316.4	11	14A	1	20	28	5	
VLADIVOSTOK	71.46	332.4	10	19	-60				
PETROPAVLOVK	73.35	353.7	11	29	-1	21	0	5	
CHANGCHUN	75.04	329.0	11	40	0	21	20	6	
PEKING	77.30	321.3	11	53A	0	21	47	8	
MAWSON	77.44	202.2	11	51	-2	21	40	0	12 2 PCP
KUNMING	78.32	302.3	11	59A	1	21	57	7	
SIAN	78.46	313.1	11	59A	0	21	59	8	
CHENGTU	80.07	307.7	12	8A	0	22	14	6	
MAGADAN	80.72	350.9	12	10	-1				
PAOTOW	81.35	318.8	12	15A	0	22	29	7	
LANCHOW	82.94	312.3	12	24	1	22	46	8	
ARGENTINE I.	85.87	160.3	12	35	-2				
CHITTAGONG	86.11	295.4	12	49	10				
BERKELEY	86.72	47.7	12	42A	0	23	9	-6	16 5 PP
LICK	86.90	48.4	12	44A	2				
SHILLONG	87.34	298.3	12	44A	-1				
ULAN-BATOR	87.39	323.6	12	44	-1				
FRESNO	87.94	49.6	12	47	0				
PASADENA	87.97	52.6	12	45A	-3	23	3	-24	28 51 SS
SHASTA	87.98	45.2	12	47	-1				
MINERAL	88.34	45.8	12	48A	-1				
RENO	89.19	47.2	12	53	0				
CORVALLIS	89.28	41.5	12	57	3				
LHASA	89.63	301.7	12	56	0	23	49	7	18 26 SKS
COLLEGE	91.02	17.1	12	59	-3				
VICTORIA	91.14	38.0	13	2	-1				
IRKUTSK	91.15	326.3	13	1	-2	23	58	2	
BOULDER CITY	91.23	52.1	13	2	-1				
VISHAKHAPTNM	91.83	288.1							23 39
EUREKA	91.84	48.5	13	4	-2				
TUCSON	92.83	56.8	13	10	0				
TUCSON TELE.	92.95	56.7	13	10	-1				
PENTICTON	93.73	38.5	13	15	1				
GLEN CANYON	94.02	52.2	13	19	3				
KODAIKANAL	94.62	279.1							24 17
FLAMING GRGE	97.05	49.1	13	30	0				
DEHRA DUN	100.44	298.5							25 21
VERA CRUZ	101.04	73.5							24 57 SKKS
WICHITA MTS.	103.31	57.7	13	58	0	24	39	6	18 9 PP
ANDI JAN	107.53	307.6							18 30 PP
QUETTA	109.69	295.8	18	23	777				
STALINABAD	109.85	304.8	19	12	777				
TASHKENT	109.93	307.8	13	19	777				
KHEYS	113.06	350.4							18 48 PP
LA PAZ	113.36	119.0	18	29	-5				21 43 PKS
CHINCHINA	115.78	94.2							29 27 PS
SVERDLOVSK	116.49	324.3							18 37 PCP
THULE	116.94	12.8	18	40	-1				
BOGOTA	117.11	95.2							22 31 PPP
SHIRAZ	121.97	293.0							21 10 PP
PALISADES	123.40	53.6				25	46	-6	20 31 PP
SHAWINIGAN	123.85	46.9	18	55	0				
BULAWAYO	124.09	226.7							18 56
WESTON	125.26	51.8							20 43 PP
CARACAS	125.69	91.4	19	9	11				
MAKHACH-KALA	126.14	309.0	19	11	12				
SODANKYLA	127.02	342.7	18	58	-3				
TROMSOE	127.20	347.2	19	2	1				
GORIS	127.31	304.8	19	17	16				

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1961								PAGE 633		
TIFLIS	128.26	307.7						19	5 PCP	
SAN JUAN	128.39	82.1	19	4	1					
KAJAANI	128.91	339.2	19	4	0					
MOSCOW	129.15	326.7						19	13 PP	
HALIFAX	130.51	48.0	19	7	0					
PULKOVO	130.58	333.7						21	18 PP	
NURMIJARVI	132.34	336.9	19	12	1			22	39 PKS	
SKALSTUGAN	133.72	345.7	19	12	-1					
LWIRO	134.84	245.1	19	20	4					
SIMFEROPOL	135.17	314.2	19	17	1					
UPPSALA	135.27	339.7	19	14	-2			21	52 PP	
KSARA	136.17	298.2	19	20K	2	26	30	7	22	4 PP
JERUSALEM	136.89	295.3	19	22	3			23	3 PKS	
KISHINEV	137.82	319.0	19	20	-1					
LWOW	139.22	325.0	19	56	32			22	19 PP	
WARSAW	139.30	329.7	19	27	3			23	3 PKS	
ISTANBUL KA.	139.93	310.5						22	23 PP	
COPENHAGEN	140.27	339.1	19	20	-5			22	24 PP	
HELWAN	140.37	292.8	19	18	-8			40	54	
BUCHAREST	140.67	316.6						21	58	
RACIBORZ	142.05	329.0	19	22	-7			25	0	
ABERDEEN	142.38	351.8	19	43	14	26	51	17	22	43 PP
SOFIA	143.24	315.6	19	30	-1			18	41 PKP2	
COLLMBERG	143.50	334.3	19	29	-2			22	46 PP	
HALLE	143.77	335.3	19	30	-2			19	43	
PRAGUE	143.81	331.7						20	19	
PRUHONICE	143.82	331.5	19	30A	-2			20	24	
VIENNA-H.	144.16	328.0	19	23	-9					
JENA	144.36	335.0	19	31	-2			41	54 SS	
WITTEVEEN	144.52	341.2	19	34	1					
CHEB	144.69	333.4	19	37	4					
ATHENS	144.87	308.0	19	32A	-2					
KASPERSKE H.	144.87	331.3	19	34A	0			20	3	
MUNSTER	144.95	339.6	19	33	-1					
DE BILT	145.59	342.0	19	37	2			42	6 SS	
ZAGREB	145.95	325.1	19	39	4					
BENSBERG	145.95	339.1	19	36A	1			19	48 PKP2	
LJUBLJANA	146.57	326.6	19	38A	2			22	50 PP	
HEIDELBERG	146.69	336.0	19	40	3					
BANGUI	146.95	245.7	19	40	3			20	9 SPKP	
STUTTGART	146.98	334.8	19	40	3			42	16 SS	
KARLSRUHE	147.13	335.9	19	40	3			19	53 PKP2	
TRIESTE	147.24	326.7	19	40	2			23	9	
TUBINGEN	147.26	334.7	19	41	3					
KEW	147.55	347.2	19	38	0			43	6 SS	
EBINGEN	147.57	334.4	19	41	3					
RAVENSBURG	147.62	333.3	19	40	2					
STRASBOURG	147.72	336.1	19	42	4			23	9 PP	
PADOVA	148.36	328.1						20	29	
BASLE	148.65	335.1	19	46A	6					
PARIS	149.30	342.0	19	50	9			19	54 PKP2	
NEUCHATEL	149.34	335.2	19	41	0					
BESANCON	149.50	336.5	19	45	4					
FLORENCE X.	149.82	326.5	19	47	5			23	25 PP	
FOLINIERE	150.12	345.6	19	46	4					
ROME	150.41	322.5	19	45	3			23	26 PP	
GARCHY	150.49	340.0	19	53	10			19	58 PKP2	
MESSINA	150.60	313.6	19	40	-3					
ISOLA	151.55	331.6	19	52K	8			20	28	
MONACO	151.73	330.6	19	50	6			23	51	
CLERMONT-FD.	151.80	338.4	19	45	0			23	33 PP	
BAGNERES	155.18	339.8	19	50	1			23	51	
TORTOSA	157.04	336.6	20	15	23			24	6	
TOLEDO	159.35	344.1	20	33	38			24	14 PP	
ALICANTE	159.56	335.0	19	59	4			24	21 PP	
COIMBRA	159.83	353.7	20	38	43					
GRANADA	161.72	340.1	20	44A	47	28	5	68	24	41 PP
MBOUR	172.12	135.5	20	27	22			25	15 PP	

JULY 8 15.H 34.M 35.S EPICENTRE -20.16 168.83 DEPTH= 0.KM

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G= 0.3361 H=-0.0664 K=-0.9395 HT= 4.6

SE= 2.01

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1961

PAGE 634

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PORT VILA	2.47	348.7	0	43A	1							
NOUMEA	3.07	225.7	0	49K	-1							
KOUMAC	4.28	263.9	1	5K	-3							
SUVA	9.30	79.2	2	24	6							
HONIARA	13.68	320.0	3	15	-2							
ONERAHI	16.30	163.7	3	56	5	6	55	2				
BRISBANE	16.35	240.8	3	50	-2	6	42	-12				
KARAPIRO	18.64	163.2	4	22K	1							
AFIAMALU	19.55	74.5	4	31	0	8	19	12				
CHATEAU	19.84	164.5	4	36	1							
RIVERVIEW	20.77	225.4	4	47K	2	8	31	-1	4	59	8	48 *SS
CHARTERS TS.	21.19	266.3	4	50K	1	8	47	6				
WELLINGTON	21.65	167.8	4	50	-4	8	54	5				
RABAUL	22.69	312.2	5	2	-2							
CANBERRA	23.08	225.0	5	9K	1	9	21	5			8	49 PCP
PORT MORESBY	23.50	293.9	5	15	3	9	18	-5				
GEBBIES PASS	23.69	173.1	5	13	-1							
ROXBURGH	25.25	179.2	5	28	-1	9	55	2			6	30
MELBOURNE	27.18	224.5	5	48	1	10	22	-3				
ADELAIDE	30.35	234.6	6	16	1	11	11	-4				
GUAM	40.96	322.7	7	46	0	13	34	-24	7	59		
MUNDARING	48.29	244.8	8	45A	0							
DUMONT	50.05	194.5	8	58	0	16	2	-7				
CAPE HALLETT	52.17	179.5	9	14K	0	16	35	-3			11	18 PP
SCOTT BASE	57.74	180.5	9	54K	-1	17	54	1			10	46 PCP
MANILA	58.32	302.7	9	58	-1							
WILKES	59.16	203.6	10	3A	-2	18	6	-5			12	4 PP
LEMBANG	60.67	273.5	10	18K	3	18	35	4				
DJAKARTA	61.63	273.9	10	24	3	18	41	-2				
TUKUBASAN	62.31	334.0	10	24A	-2	18	48	-4	10	32	24	34
ABUYAMA	63.19	329.7	10	31A	-1							
MATUSIRO	63.38	332.7	10	32A	-1	19	5	0			20	30 SCS
NHATRANG	66.89	293.5	10	54	-2	19	47	-1				
BYRD STATION	67.11	169.6	10	54	-3							
HONG KONG	68.03	305.5	10	56	-7	19	59	-3			24	33 SS
ZO-SE	68.48	317.0	11	5A	-1	20	6	-1				
CANTON	69.11	305.7	11	10K	0	20	15	0				
SOUTH POLE	69.96	180.0	11	13	-2							
NANKING	70.65	316.4	11	19A	0	20	34	1				
VLADIVOSTOK	71.54	332.4	11	25A	1	20	41	-2				
MEDAN	72.71	280.5	11	32K	1	20	55	-2				
PETROPAVLOVK	73.41	353.6	11	34	-1	21	4	0				
CHANGCHUN	75.13	329.0	11	45A	0	21	24	0				
PEKING	77.40	321.3	11	58A	0	21	52	3				
MAWSON	77.43	202.2	11	58A	0	21	47	-2	12	10	12	15 *SP
SIAN	78.56	313.0	12	6A	1	22	5	4				
CHENG TU	80.17	307.7	12	13A	0	22	19	1				
MAGADAN	80.78	350.8	12	14	-3							
PORT BLAIR	81.25	285.8									22	29
PAOTOW	81.45	318.8	12	21A	1	22	33	2				
LANCHOW	83.05	312.3	12	30A	2	23	3	15				
ARGENTINE I.	85.80	160.3	12	40	-2							
CHITTAGONG	86.22	295.3	12	50	6	23	25	6				
UKIAH	86.62	46.2	12	47	1							
BERKELEY	86.67	47.7	12	46A	0	23	37	14			28	55 SS
VINEYARD	86.76	49.0	12	47	0							
LICK	86.85	48.4	12	47A	0						13	23
SHILLONG	87.45	298.3	12	50	0						26	14
ULAN-BATOR	87.49	323.6	12	50	0	23	18	-13				
FRESNO	87.90	49.6	12	52A	0							
PASADENA	87.92	52.5	12	51A	-1	23	55	20			16	26 PP
SHASTA	87.94	45.2	12	52	-1							
MINERAL	88.30	45.8	12	53A	-1							
RENO	89.15	47.1	12	58	0							
CORVALLIS	89.24	41.5	12	58	-1							
LHASA	89.74	301.7				23	54	2			23	32 SKS
COLLEGE	91.04	17.1	13	3	-4						18	40 PKP
VICTORIA	91.12	38.0	13	6	-1						18	43
BOULDER CITY	91.18	52.0	13	8	0						18	44 PKP
IRKUTSK	91.25	326.3	13	8	0							
EUREKA	91.79	48.5	13	9	-2						18	45 PKP
CHATRA	91.83	297.8	13	12K	1							
TUCSON	92.78	56.8	13	15	0						18	51 PKP
TUCSON TELE.	92.90	56.7	13	16	0						18	52 PKP
MADRAS	93.15	282.6	13	55K	38	23	52	-30			16	55 PP
PENTICTON	93.70	38.5	13	20	1							

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1961

PAGE 635

GLEN CANYON	93.97	52.1	13 21	0				
KODAIKANAL	94.72	279.1					24 26	
SALT LAKE C.	95.20	48.5	13 24	-2				
HUNGRY HORSE	96.65	40.9	13 31	-2	24 4	-6		
FLAMING GRGE	97.00	49.1	13 33	-1			15 10	
BOZEMAN	97.55	44.2	13 35	-2	24 13	-1		
TACUBAYA	98.26	72.4					25 43 PS	
DEHRA DUN	100.55	298.4					24 26	
WICHITA MTS.	103.25	57.7	13 59	-4	24 43	1	18 10 PP	
SEMIPALATNSK	104.38	318.7					19 21	
ALMATA	104.86	310.9					18 29 PP	
FRUNSE	106.43	310.1					18 41 PP	
STALINABAD	109.96	304.8					21 5 PPP	
KHEYS	113.12	350.4	18 48	9				
LA PAZ	113.25	118.9	18 41	2				
CHINCHINA	115.67	94.2	18 43	-1			22 34 PPP	
BOGOTA	117.01	95.2	18 46	-1	25 46	7	26 56 SKKS	
FUQUENE	117.61	94.4	20 1A	73				
WASHINGTON	120.91	56.1	18 53	-1			19 51	
OTTAWA	121.85	48.5	18 54	-2				
SHIRAZ	122.08	292.9	18 56	0			21 21 PKS	
BREBEUF	123.31	48.3	18 57K	-2			20 37 PP	
PALISADES	123.34	53.6	18 58	-1	26 7	6	20 36 PP	
TEHERAN	123.46	300.1	19 0	1				
SHAWINIGAN	123.81	46.9	18 58	-2				
BULAWAYO	124.13	226.6	19 1	1				
WESTON	125.21	51.9	19 1A	-1			20 51 PP	
CARACAS	125.59	91.4	19 5	2	26 5	-2		
MAKHACH-KALA	126.24	309.0	19 4	0				
SODANKYLA	127.10	342.7	19 5	-1				
TROMSOE	127.27	347.3	19 5	-1				
GORIS	127.41	304.8	19 8	1				
SAN JUAN	128.30	82.1	19 6	-2				
KIRUNA	128.37	345.3	19 7A	-2			20 50 PP	
TIFLIS	128.37	307.7	19 10	1				
KAJAANI	128.99	339.2	19 9	-1				
MOSCOW	129.24	326.7	19 23	13				
PULKOVO	130.66	333.8	19 12	-1				
TRINIDAD	130.82	93.3	19 13	0			20 33	
UMEA	131.51	342.0	19 16	1			22 39 PKS	
SOTCHI	131.76	310.9	19 15	0				
NURMIJARVI	132.42	336.9	19 15	-1			22 42 PKS	
SKALSTUGAN	133.79	345.7	19 14	-5			22 46 PKS	
LWIRO	134.91	245.0	19 17	-4				
UPPSALA	135.34	339.8	19 22	0			21 49 PP	
KSARA	136.28	298.2	19 26K	3	26 36	3	22 10 PP	
JERUSALEM	137.00	295.3	19 25	0			22 22 PP	
KISHINEV	137.92	319.0	19 25	-1				
GOTEBORG	138.84	341.3	19 27	-1			28 38 SKKS	
LWOW	139.31	325.1	19 24	-5			22 24 PP	
WARSAW	139.39	329.8	19 25	-4			22 23 PP	
FOCSANI	139.52	317.9					23 7	
ISTANBUL KA.	140.03	310.5	19 31	1	26 59	20	22 35 PP	
COPENHAGEN	140.34	339.2	19 23K	-8			22 25 PP	
HELWAN	140.48	292.8	19 32	1			22 30 PP	
BUCHAREST	140.78	316.7	19 23	-9			22 31 PKS	
KRAKOW	141.31	327.8	19 31	-1			23 12 PKS	
RACIBORZ	142.14	329.0	19 30	-4			22 56 PP	
ABERDEEN	142.44	351.9	19 37	3			23 13 SKP	
SOFIA	143.34	315.6	19 34	-2			19 47 PKP2	
HURBANOVO	143.57	326.2	19 28	-8				
COLLMBERG	143.59	334.3	19 34A	-2			22 37 PP	
PRAGUE	143.90	331.8	19 35	-2				
PRUHONICE	143.91	331.6	19 35A	-2			23 7 PP	
BRATISLAVA	143.94	327.4	19 36	-1			29 43 SKKS	
BELGRADE	144.10	320.5	19 37A	0			22 56 PP	
VIENNA-H.	144.25	328.1	19 37A	-1			22 57 PP	
JENA	144.44	335.1	19 36	-2			22 42 PP	
WITTEVEEN	144.59	341.3	19 38A	0				
CHEB	144.77	333.5	19 44	6				
KASPERSKE H.	144.96	331.4	19 39A	0			22 56 PP	
ATHENS	144.98	308.0	19 30A	-9				
MUNSTER	145.03	339.7	19 39	0			19 42	
DE BILT	145.66	342.1	19 42A	2			23 7 PP	
BENSBERG	146.03	339.1	19 41A	0			23 28	
ZAGREB	146.05	325.1	19 41A	0				
LJUBLJANA	146.66	326.7	19 41A	-1			25 20	
HEIDELBERG	146.78	336.1	19 42	0			21 5	
BANGUI	147.03	245.6	19 42	0			21 33	

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1961

PAGE 636

STUTT GART	147.06	334.8	19 42	0				42 14 SS
KARL SRUHE	147.21	335.9	19 42	-1				23 40 PP
TRIESTE	147.33	326.8	19 41	-2				23 10 PP
TUBINGEN	147.34	334.8	19 43	0				
KEW	147.61	347.3	19 43	0				
EBINGEN	147.66	334.5	19 43	0				
RAVENSBURG	147.71	333.4	19 43	0				
STRASBOURG	147.81	336.1	19 43A	-1				23 42 PP
TARANTO	148.41	316.1						23 5
PADOVA	148.45	328.2	19 49	4				24 21 PP
CHUR	148.47	332.4	19 49	4				
BASLE	148.74	335.2	19 49	4				27 1
PARIS	149.38	342.1	19 57	11				23 33 PP
NEUCHATEL	149.42	335.3	19 51	5				
PAVIA	149.91	330.6	19 54	7				31 45 SKKS
FLORENCE X.	149.91	326.6	19 34	-13	26 33	-20		
JERSEY	150.15	348.0	20 58	71				
FOLINIERE	150.19	345.7	19 47	0				
ROME	150.50	322.5	19 48A	0				23 12 PKS
GARCHY	150.57	340.1	19 55	7				20 0 PKP2
REGGIO CALA.	150.69	313.3	19 55	7				
MESSINA	150.71	313.6	19 53	5				24 21 PP
ISOLA	151.64	331.7	19 49	-1				23 36 PP
MONACO	151.82	330.7	19 50	0				
CLERMONT-FD.	151.88	338.5	19 50	0				23 38 PP
BAGNERES	155.26	339.9	19 55A	1				23 57
TORTOSA	157.13	336.7	19 44	-13				24 9 PP
SERRA PILAR	158.98	354.6	19 57K	-2				24 19 PP
TOLEDO	159.42	344.2	20 2	2	26 40	-24		24 22 PP
ALICANTE	159.64	335.2	20 3	3	27 7	3		24 25 PP
COIMBRA	159.89	353.9	19 59A	-1				24 22 PP
ALMERIA	161.71	337.2	20 4	2				24 30 PP
GRANADA	161.80	340.3	20 24A	22	26 34	-32		24 39 PP
MBOUR	172.02	135.2	20 11	1				25 23 PP

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SE= 2.43

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
PORT VILA	2.81	347.0	0	42K	-2	1	16	-2				
NOUMEA	2.97	232.1	0	45K	-2							
KOUMAC	4.41	268.2	1	4K	-3							
SUVA	9.22	77.0	2	17	2							
BRISBANE	16.32	242.0	3	47	-2	6	49	0				
KARAPIRO	18.29	163.3	4	16	2							
CHATEAU	19.49	164.6	4	41	13							
AFIAMALU	19.50	73.5	4	28	0	8	28	27				
RIVERVIEW	20.66	226.3	4	45A	4						8 42 *SS	
WELLINGTON	21.31	167.9				8	58	20				
CHARTERS TS.	21.32	267.1	4	48	1	8	49	11				
CANBERRA	22.96	225.7	5	6K	2	9	20	12				
RABAUL	23.02	312.5	5	9	5							
GEBBIES PASS	23.35	173.3	5	8	1							
PORT MORESBY	23.76	294.4	5	15	4	9	36	14				
ADELAIDE	30.29	235.2	6	16	4							
DARWIN	37.40	276.4	7	12	-1							
GUAM	41.30	322.8	7	51	6							
MUNDARING	48.29	245.0	8	44	3							
CAPE HALLETT	51.85	179.5	9	8	0	16	39	11			11 14 PP	
HONOLULU	52.53	39.7				17	10	36				
SCOTT BASE	57.42	180.6	9	49K	0							
MANILA	58.62	302.7	10	4	7	17	58	-1				
WILKES	58.92	203.7				18	6	3				
BAGUIO CITY	60.02	304.1	10	2	-5							
LEMBANG	60.84	273.6	10	11	-2							
MATUSIRO	63.73	332.6	10	30A	-2	18	58	-6				
MIRNY	65.82	205.2	10	44	-2	19	32	3				
BYRD STATION	66.77	169.6	10	48	-4							
HONG KONG	68.34	305.5	11	1	0							
ZO-SE	68.81	317.0	11	3	-1	20	5	0				
CANTON	69.42	305.7	11	11	3	20	21	8				

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1961

PAGE 637

SOUTH POLE	69.64	180.0	11	9	0			
NANKING	70.99	316.4	11	19	1	20	32	1
VLADIVOSTOK	71.90	332.3	11	23	0			
PETROPVLOVK	73.74	353.5	11	6	-28			
CHANGCHUN	75.48	328.9	11	43A	-1	21	23	1
MAWSON	77.20	202.2	11	54	0			
PEKING	77.75	321.2	11	56	-1	21	50	4
KUNMING	78.72	302.2	12	2	0	22	0	3
CHENG TU	80.49	307.7	12	10	-2	22	17	2
PAOTOW	81.79	318.8	12	19	1	22	34	5
LANCHOW	83.37	312.2	12	27A	0			
ARGENTINE I.	85.45	160.2	12	37	0			
BERKELEY	86.78	47.6	12	43A	0			
LICK	86.96	48.3	12	45A	1			
SHILLONG	87.73	298.2	12	47	-1			
ULAN-BATOR	87.83	323.5	12	48	-1			
FRESNO	87.99	49.5	12	49	0			
SHASTA	88.06	45.1	12	50	0			
WOODY	88.18	50.8	12	50	0			
MINERAL	88.42	45.7	12	50	-1			
RENO	89.26	47.1						12 31
LHASA	90.04	301.6	13	2	3	23	53	4
BOULDER CITY	91.26	52.0	13	5	0			23 29 SKS
VICTORIA	91.28	37.9	13	5	0			
COLLEGE	91.30	17.0	13	3	-2	13	16	17 37 PP
EUREKA	91.89	48.4	13	7	-1			
TUCSON	92.83	56.7	13	13	1			
TUCSON TELE.	92.95	56.7	13	13	1			
PENTICTON	93.86	38.4	13	19	2			
GLEN CANYON	94.04	52.1	13	20	3			
FLAMING GRGE	97.10	49.1	12	59	-32			
WICHITA MTS.	103.29	57.7	14	14	15	24	42	6
SHIRAZ	122.34	292.7	18	56	3			32 57 SS
PALISADES	123.41	53.8				25	55	0
SHAWINIGAN	123.92	47.1	19	2	6			20 33 PP
SODANKYLA	127.45	342.7	18	54	-9			
TROMSOE	127.61	347.3	19	3	0			
SAN JUAN	128.20	82.3	19	5	0			
HALIFAX	130.57	48.3						22 34
TRINIDAD	130.66	93.5	19	11	2			
NURMIJARVI	132.77	336.9	19	6	-7			22 44 PKS
KSARA	136.56	297.9	19	27	7			22 13 PP
LWOW	139.66	324.9	19	10	-16			22 22
COPENHAGEN	140.70	339.1	19	30	2			22 26 PP
SOFIA	143.68	315.4	19	32	-1			20 14
COLLMBERG	143.94	334.3	19	32K	-1			19 35 PKP2
HALLE	144.20	335.4	19	32	-2	19	46	
PRAGUE	144.25	331.7						20 34
PRUMONICE	144.26	331.5	19	33K	-1			
BRATISLAVA	144.29	327.3	19	52	18			20 55
VIENNA-H.	144.60	327.9	19	34	-1			
JENA	144.80	335.1	19	34	-1			
WITTEVEEN	144.94	341.3	19	38	3			
CHEB	145.13	333.4	19	40	4			
ATHENS	145.29	307.7	19	38K	2			
KASPERSCHE H.	145.31	331.3	19	37A	1			24 2
MUNSTER	145.38	339.6	19	36	0			
DE BILT	146.01	342.1	19	40	3			
BENSBERG	146.38	339.1	19	39	1			
ZAGREB	146.39	325.0	19	40	2			
LJUBLJANA	147.01	326.5	19	39	0	20	2	
BANGUI	147.03	245.0	19	43	4			40 11 SPKP
STUTTGART	147.42	334.8	19	42	3			
KARLSRUHE	147.56	335.9	19	41	1			
TRIESTE	147.68	326.7	19	42	2			
TUBINGEN	147.69	334.7	19	44	4			
KEW	147.96	347.4	19	42	2			
STRASBOURG	148.16	336.1	19	44	3			
PADOVA	148.80	328.1						20 30
BASLE	149.09	335.1	19	48	6			
PARIS	149.73	342.2	19	49	6			24 27 PP
NEUCHATEL	149.77	335.2	19	51	8			
BESANCON	149.94	336.6	19	48	5			
FOLINIERE	150.54	345.8	19	49	5			
ROME	150.85	322.3	19	49	4			
GARCHY	150.92	340.1	19	55	10			
MESSINA	151.03	313.3	19	55	10			
ISOLA	151.99	331.6	19	53	7	20		8

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1961

PAGE 638

MONACO	152.17	330.6	19 53	6	
CLERMONT-FD.	152.23	338.5	19 59	12	
TORTOSA	157.48	336.7	20 44	50	
TOLEDO	159.76	344.3			20 38 PKP2
GRANADA	162.15	340.3	20 58K	59	24 33 PP

JULY 8 21.H 48.M 43.S EPICENTRE -20.31 168.93 DEPTH= 25.KM

A=-0.92110 B= 0.18020 C=-0.34511 D= 0.1920 E= 0.9814
G= 0.3387 H=-0.0663 K=-0.9386 HT= 4.6

SE= 2.62

	DELTA DEG.	AZ. DEG.	P O-C			S O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
PORT VILA	2.63	347.2	0	44A	2	1	18	4				
NOUMEA	3.04	229.1	0	46K	-2							
KOUMAC	4.37	266.0	1	6K	-1							
SUVA	9.23	78.1				2	32	-87				
BRISBANE	16.36	241.4	3	48	-2	6	56	6				
KARAPIRO	18.47	163.3	4	17	1							
AFIAMALU	19.50	74.0	4	27	-1	8	45	44				
CHATEAU	19.66	164.6	4	36	6							
RIVERVIEW	20.74	225.9	4	43K	1					8	43 *SS	
CHARTERS TS.	21.28	266.7	4	49	2	8	48	11				
WELLINGTON	21.48	167.9	4	54	5	8	49	8				
RABAUL	22.87	312.3	5	7	4							
CANBERRA	23.05	225.4	5	7K	2	9	15	5		9	25	
GEBBIES PASS	23.52	173.2	5	12	3							
PORT MORESBY	23.65	294.1	5	14	4	9	28	8				
ROXBURGH	25.10	179.4				9	55	10				
MELBOURNE	27.14	224.8	5	49	6	10	37	18				
ADELAIDE	30.34	234.9	6	13	1							
DARWIN	37.33	276.2								7	15	
GUAM	41.14	322.7	7	46	2	14	2	6				
MUNDARING	48.32	244.9	8	42	0							
CAPE HALLETT	52.01	179.5	9	10	0	16	35	5				
HONOLULU	52.44	39.8				17	7	31				
SCOTT BASE	57.59	180.5	9	51K	1	17	50	5		12	13 PP	
MANILA	58.49	302.7	9	58	1							
LEMBANG	60.78	273.5	10	12	1					12	36	
DJAKARTA	61.73	273.9								11	48	
MATUSIRO	63.56	332.6	10	31A	0	18	53	-9				
MIRNY	65.95	205.2	10	46	0							
BYRD STATION	66.94	169.6	10	51	-2							
NHATRANG	67.04	293.5	10	55	2				11	10		
ZO-SE	68.66	317.0	11	4	1	20	6	3				
CANTON	69.28	305.7	11	9	2	20	19	8				
SOUTH POLE	69.81	180.0	11	10	-1							
NANKING	70.83	316.4	11	17A	0	20	31	2				
VLADIVOSTOK	71.72	332.3	11	23A	1	20	33	-6				
PETROPAVLOVK	73.57	353.5	12	34A	61							
CHANGCHUN	75.31	328.9	11	44A	1	21	21	1				
MAWSON	77.33	202.2	11	55	0							
PEKING	77.58	321.2	11	57A	1	21	51	7				
KUNMING	78.59	302.2	12	5	4	22	4	9				
SIAN	78.74	313.0	12	5A	3	22	3	6				
CHENG TU	80.35	307.7	12	13A	2	22	19	5				
LANCHOW	83.22	312.2	12	29A	3	22	53	10		13	24 PP	
ARGENTINE I.	85.62	160.2	12	37	-1							
BERKELEY	86.70	47.7	12	44A	1							
LICK	86.88	48.4	12	46K	2							
SHILLONG	87.61	298.2	12	48A	0							
ULAN-BATOR	87.67	323.5	12	49	1							
FRESNO	87.92	49.5	12	50	1							
PASADENA	87.93	52.5	12	53	4							
SHASTA	87.98	45.1	12	50	1							
MINERAL	88.34	45.7	12	51A	0					13	27	
RENO	89.18	47.1	12	56A	1							
CORVALLIS	89.29	41.4	12	57A	1							
LHASA	89.91	301.7	13	1	2	23	53	6		23	30 SKS	
COLLEGE	91.15	17.0	13	2	-2							
VICTORIA	91.17	38.0	13	11	7							
BOULDER CITY	91.19	52.0	13	6	2							
EUREKA	91.82	48.4	12	58	-9							
TUCSON	92.78	56.7	13	13	1					13	33	

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1961

PAGE 639

TUCSON TELE.	92.90	56.7	13 14	2		
PENTICTON	93.76	38.4	13 17	1		
GLEN CANYON	93.98	52.1	13 19	2		
FLAMING GRGE	97.03	49.1	13 31	0		
WICHITA MTS.	103.24	57.7	13 59	0		18 25
ANDI JAN	107.81	307.6	18 34	777		
BOGOTA	116.89	95.2				21 38 SKP
SHAWINIGAN	123.84	47.0	18 56	0		
BULAWAYO	124.10	226.4	18 59	2		
CARACAS	125.49	91.4	18 55	-4	26 2 1	
SODANKYLA	127.27	342.7	19 5	2		
TROMSOE	127.44	347.3	19 5	2		
SAN JUAN	128.22	82.2	19 5	0		
KIRUNA	128.54	345.3	19 5	0		21 9 PP
TIFLIS	128.54	307.6	19 7	2		
TRINIDAD	130.72	93.3	19 11	1		
UMEA	131.68	342.0	19 2	-9		22 37 PKS
NURMI JARVI	132.60	336.9	19 15	2		22 40 PKS
SKALSTUGAN	133.96	345.7	19 11	-5		
SIMFEROPOL	135.46	314.1	19 17	-1		
UPPSALA	135.52	339.8				22 46 PKS
KSARA	136.43	298.0	19 24	4		22 15 PP
JERUSALEM	137.16	295.1	19 26	5		22 21 PP
KISHINEV	138.10	318.9	19 27	4		
LWOW	139.49	325.0	19 29	3		22 56
WARSAW	139.57	329.7	19 28	2		23 5 PKS
COPENHAGEN	140.52	339.2	19 25	-3		22 28 PP
HELWAN	140.63	292.6	19 31	3		22 32 PP
BUCHAREST	140.95	316.6				22 24
KRAKOW	141.49	327.8				23 10 PKS
SOFIA	143.52	315.5	19 34	1		20 1
COLLMBERG	143.77	334.3	19 32A	-1		22 50 PP
HALLE	144.03	335.4	19 34	0	19 42	
PRAGUE	144.08	331.8				20 30
PRUHONICE	144.09	331.6	19 34A	0		22 46 PP
VIENNA-H.	144.43	328.0	19 36A	2		21 25
JENA	144.62	335.1	19 36	1		22 53 PP
WITTEVEEN	144.77	341.3	19 37A	2		
CHEB	144.95	333.5	19 42	7		
KASPERSKE H.	145.14	331.4	19 38A	2		21 13
ATHENS	145.15	307.9	19 37K	1		
MUNSTER	145.20	339.7	19 37	1		
DE BILT	145.84	342.1	19 32A	-5		48 17 SS
BENSBERG	146.21	339.2	19 41A	4		21 31
ZAGREB	146.23	325.1	19 41A	3		
LJUBLJANA	146.85	326.6	19 43	4	20 10	
HEIDELBERG	146.95	336.1	19 43	4		
STUTTGART	147.24	334.8	19 40	1		20 4
KARLSRUHE	147.39	336.0	19 45	6		
TRIESTE	147.51	326.8	19 44	4		26 37 PPP
TUBINGEN	147.52	334.8	19 44	4		
KEW	147.78	347.4	20 4	24		
EBINGEN	147.84	334.5	19 44	4		
RAVENSBURG	147.89	333.4	19 45	5		
STRASBOURG	147.99	336.1	19 46	6		
PADOVA	148.63	328.2				21 23
BASLE	148.92	335.2	19 43	1		
PARIS	149.55	342.2	19 56	13		23 25 PP
NEUCHATEL	149.60	335.3	19 49	6		
BESANCON	149.76	336.6	19 52	9		
FLORENCE X.	150.09	326.5	19 39	-5		22 55 PP
FOLINIERE	150.36	345.8	19 51	7		
ROME	150.68	322.5	19 46A	1		
GARCHY	150.74	340.1	20 1	16		20 43
MESSINA	150.88	313.5	19 50	5		
ISOLA	151.82	331.7	19 54	8		23 31 PP
MONACO	152.00	330.7	19 46	-1		
CLERMONT-FD.	152.05	338.5	19 55	8		23 39 PP
BAGNERES	155.43	339.9	19 54K	3		
TORTOSA	157.30	336.8	19 36	-18		
TOLEDO	159.59	344.4	20 38	41		
GRANADA	161.98	340.4	20 14K	15	28 4 64	24 57 PP

JULY 9 6.H 32.M 53.S EPICENTRE 15.42 -87.40 DEPTH= 97.KM

A= 0.04374 B=-0.96346 C= 0.26424 D=-0.9990 E=-0.0454

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1961

PAGE 640

G= 0.0120 H=-0.2640 K=-0.9645 HT= 5.7

DEPTH OF FOCUS= 0.010R

SE= 3.29

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	O-C S	M	S	M	S
SANTIAGO MA.	2.18	208.5	0	30	-5							
SAN SALVADOR	2.46	225.4	0	34	-5						1	21 SG
COMITAN	4.63	280.9	1	18	9	2	18	16			1	21 SG
MERIDA	5.89	339.3	1	26	0	2	46	13				
OAXACA	9.14	281.3				4	22	30				
VERA CRUZ	9.14	295.5	2	19	9	4	17	25				
BALBOA HTS.	10.00	129.1									6	23
TACUBAYA	11.94	291.0	2	57	9	5	28	29				
CHINCHINA	15.55	130.7	3	40	5	6	51	27				
FUQUENE	16.68	124.9	3	48K	-1							
BOGOTA	16.94	127.9	3	54	2	7	7	11				
DALLAS	19.33	335.5	4	20	0							
COLUMBIA	19.37	16.1	4	17	-3	7	57	8				
CARACAS	20.53	101.3	4	25	-7	8	25	14				
FAYETTEVILLE	21.46	344.8	4	41	-1	8	46	17	4	55		
WICHITA MTS.	21.69	334.4	4	42	-2						8	47
CHAPEL HILL	21.74	18.6	4	43	-1							
LUBBOCK	22.31	326.7	4	49	-1							
ST. LOUIS 1	23.26	354.4	4	58	-1							
WASHINGTON	25.09	19.3	5	17	0							
PENNSYLVANIA	26.61	16.3	5	35	4	10	25	28				
TUCSON TELE.	27.08	312.6	5	35	0							
TUCSON	27.11	312.3	5	35	0	10	41	36				
PALISADES	28.06	22.0	5	43	-1	10	28	8			8	24 PCP
HUANCAYO	29.79	155.7	6	2	2							
WESTON	30.22	24.1	6	3K	0							
LARAMIE	30.22	332.2	6	4	1						6	48
OTTAWA	31.47	15.9	6	13	-1							
FLAMING GRGE	31.78	327.4	6	16	-1							
BOULDER CITY	31.91	315.0	6	17	-1							
SALT LAKE C.	33.00	324.7	6	29	1							
SHAWINIGAN	33.36	18.5	6	30	-1							
PASADENA	33.39	309.6	6	30	-1						11	56 SCP
EUREKA	34.63	319.4	6	36	-5							
FRESNO	35.77	312.6	6	51	0							
BUTTE	37.08	330.6	7	4	2							
RENO	37.14	316.6	7	5	2							
LICK	37.34	312.3	7	3	-1							
MINERAL	38.73	316.6	7	16K	0							
SHASTA	39.43	316.7	7	22	0							
BANFF	42.21	333.8	7	40	-5							
PENTICTON	42.80	329.1	7	50	1							
VICTORIA	44.27	325.9	8	1	0							
RESOLUTE	59.41	357.7	9	52	-2							
THULE	61.83	5.0	10	8	-3							
COLLEGE	63.75	335.5	10	21	-3							
GRANADA	75.98	54.9	11	47A	9	22	5	54				
SKALSTUGAN	80.57	26.6	12	2	-1							
BENSBERG	81.02	39.7	12	8	3						12	34
KIRUNA	82.39	21.4	12	13	1							
STUTTGART	82.88	41.5	12	14	-1							
JENA	83.72	39.0	12	20	1							
UMEA	83.85	25.2	12	18	-2							
UPPSALA	84.15	29.3	12	21	0							
COLLMBERG	84.47	38.3	12	23	0						15	45 PP
SODANKYLA	84.74	20.8	12	24	0							
KASPERSKE H.	85.49	40.3	12	31A	3						13	7
PRUHONICE	85.82	39.3	12	33	3							
KAJAANI	86.71	23.5	12	35	1							
LJUBLJANA	87.08	43.0	12	38	2							
NURMIJARVI	87.11	27.3	12	35	-1							

JULY 9 8.H 5.M 42.S EPICENTRE 27.55 55.20 DEPTH= 35.KM

A= 0.50674 B= 0.72910 C= 0.46003 D= 0.8212 E=-0.5707
G= 0.2625 H= 0.3778 K=-0.8879 HT= 2.6

DEPTH OF FOCUS= 0.000R

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1961

PAGE 642

CHANGCHUN	57.58	53.7	9 47	-2	
SIDA	58.28	330.0	9 53K	-1	
GRAHAMSTOWN	66.36	206.0	10 48	1	
MBOUR	67.85	275.1	10 57	0	
MATUSIRO	68.92	59.0	11 1	-2	
RESOLUTE	76.18	352.2	11 46	0	
COLLEGE	86.16	9.6	12 38	-1	15 23 PP
SHAWINIGAN	92.53	327.0	13 8	-1	
PENTICTON	103.34	356.5			16 56
FLAMING GRGE	110.39	347.6	15 23	-185	
FAYETTEVILLE	110.44	333.9	13 46	-283	
EUREKA	112.81	352.6	15 14	-199	
GLEN CANYON	114.63	348.4	14 30	-247	
SOUTH POLE	117.39	180.0	18 43	1	
BYRD STATION	127.39	181.2	19 3	2	

JULY 10 3.H 49.M 59.S EPICENTRE -19.54 -69.10 DEPTH= 105.KM

A= 0.33649 B=-0.88104 C=-0.33249 D=-0.9342 E=-0.3568
G=-0.1186 H= 0.3106 K=-0.9431 HT= 4.8

DEPTH OF FOCUS= 0.011R

SE= 2.02

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
LA PAZ	3.16	17.1	0	54	5	1	29	3				
AREQUIPA	3.82	323.0	0	57	-1							
ANTOFAGASTA	4.32	196.3	1	1	-4							
HUANCAYO	9.56	320.3	2	16	0	4	17	15				
BOGOTA	24.50	348.0	5	13	2	9	22	1				
CHINCHINA	25.19	344.6	5	18	1	9	34	2	5	41	6	38 PPP
FUQUENE	25.27	349.1	5	18	0	9	38	5	5	44		
CARACAS	29.93	4.3	5	52A	-8						11	43
TRINIDAD	30.94	14.8									15	39
SAN JUAN	37.80	4.6	7	5	-3							
VERA CRUZ	46.75	323.9				15	25	24				
TACUBAYA	48.67	320.9	8	37	2							
COLUMBIA	54.44	347.8	9	18	-1	16	45	-2	9	46		
WASHINGTON	58.61	352.7	9	48	0				10	14		
MORGANTOWN	59.73	350.3	9	55A	-1				10	23		
FAYETTEVILLE	60.21	336.7	9	57K	-2	18	3	0	10	25	18	24 *SS
PALISADES	60.40	355.8	9	59	-2	17	59	-6	10	26	10	53 PCP
WICHITA MTS.	60.81	332.3	10	1	-2	18	9	-2	10	28	12	18 PP
MBOUR	61.38	60.6	10	4	-3	18	20	2				
WESTON	61.64	358.1	10	7A	-2				10	36		
HALIFAX	64.04	4.4	10	23	-2							
BYRD STATION	64.39	188.6	10	28	1							
BREBEUF	64.86	356.5	10	29	-1	19	3	2				
OTTAWA	64.91	354.9	10	29	-1							
TUCSON	65.18	321.6	10	32	0				11	2	13	6 PP
TUCSON TELE.	65.18	321.7	10	32	0							
SHAWINIGAN	65.86	357.2	10	36	-1							
GLEN CANYON	69.03	324.6	10	57	1				11	25		
LARAMIE	69.35	331.4	10	58	0							
BOULDER CITY	70.16	321.9	11	5	2				11	32		
SOUTH POLE	70.58	180.0	11	7	1							
FLAMING GRGE	70.85	328.8	11	7	0				11	39		
PASADENA	70.94	318.5	11	8	0	20	18	4	11	35	21	6 *SS
SALT LAKE C.	71.96	327.2	11	15	1							
EUREKA	73.24	323.8	11	22	1							
FRESNO	73.65	319.6	11	23	-1							
VINEYARD	74.61	318.8	11	31A	2							
LICK	75.15	319.1	11	33K	1						12	2
BOZEMAN	75.24	331.0	11	34	1				12	2		
RENO	75.46	321.8	11	36K	2							
BRANNER	75.53	318.9	11	36A	1						12	4
BERKELEY	75.86	319.2	11	38A	1	21	15	6	12	5		
BUTTE	76.21	330.4	11	39	1				12	6		
MINERAL	77.04	321.5	11	42K	-1						12	11
SCOTT BASE	77.71	190.3	11	49	2				12	23		
SHASTA	77.72	321.4	11	46	-1						12	15
CAPE HALLETT	80.25	195.5	12	2A	1	22	1	5	12	37		
CORVALLIS	80.70	324.0	12	4K	1							
PENTICTON	81.90	329.3	12	10	1							

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1961

PAGE 643

SERRA PILAR	82.36	41.6	12 9	-3					15 16	PP
VICTORIA	83.26	327.1	12 17K	1						
GRANADA	83.55	47.0	12 49K	31	22 36	7			23 36	PS
KIMBERLEY	84.08	118.3	12 20A	0						
ALMERIA	84.17	47.7	12 17	-4	22 33	-2	12 52		24 10	
TOLEDO	84.62	44.5	12 25	2	22 42	2	12 56		23 32	*SS
MAWSON	86.25	163.4	12 33A	2				13 0	13 12	*SP
TORTOSA	88.11	45.4	13 13	33	22 58	-15				
BANGUI	89.30	85.1	12 47	1				13 15		
LWIRO	96.69	94.8	13 25	5						
ROME	96.78	48.0							23 49	
STUTTGART	97.10	40.8	13 21	0				13 55		
JENA	99.25	39.2	17 31	240					18 5	
KASPERSKE H.	99.89	41.4							17 39	PP
COLLMBERG	100.22	39.2	13 36	0				14 8	17 46	PP
PRUHONICE	100.75	40.8							17 44	PP
COPENHAGEN	101.27	34.8			24 11	3				
COLLEGE	102.82	334.6	13 46	-1				14 15		
KSARA	112.77	60.7	18 16	-8					29 42	PPS
MOSCOW	115.32	36.8	19 31	62						
SVERDLOVSK	127.52	32.2	18 53	0						
CHARTERS TS.	127.55	223.3	18 56	3						
QUETTA	138.96	66.2	19 19	5				19 48	22 36	PP
LAHORE	145.06	62.7	19 27	2						
GUAM	147.04	264.7	19 30	2				20 1		
TUKUBASAN	149.47	309.1	19 35	3					20 9	
VLADIVOSTOK	150.59	327.7	19 37	3						
MATUSIRO	150.69	311.0	19 42K	8					23 41	PP
CHANGCHUN	152.94	336.7	19 40	3						
PEKING	159.08	348.6	19 49	4						
LHASA	159.36	57.0	19 52	6						
SHILLONG	161.43	67.7	20 7	19						
SIAN	165.24	6.5	19 57	5						
NANKING	165.67	332.0	19 56	4						
CHENG TU	167.30	28.0	19 57	4						

JULY 11 9.H 31.M 45.S EPICENTRE 7.88 93.07 DEPTH= 51.KM

A=-0.05301 B= 0.98925 C= 0.13627 D= 0.9986 E= 0.0535
G=-0.0073 H= 0.1361 K=-0.9907 HT= 6.8

DEPTH OF FOCUS= 0.003R

SE= 3.09

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PORT BLAIR	3.78	354.8	0	57	-1	1	34	-7				
MEDAN	7.03	127.1	1	43	0	3	31	28				
VISHAKHAPTNM	13.64	316.7	3	13K	0	6	2	18			3 20	PP
MADRAS	13.65	292.9	3	12A	-1	5	54	10			3 24	PP
CHITTAGONG	14.44	355.4	3	26	3	6	6	3			3 45	PP
CALCUTTA	15.25	343.3	3	25K	-9	6	48	27				
KODAIKANAL	15.58	279.8	3	36K	-2	6	52	23			8 15	PCP
NHATRANG	16.47	73.5	3	54	5	7	5	15				
HYDERABAD	17.12	305.1	4	OK	3	7	20	16			4 5	PP
BOKARO	17.32	337.1	4	8	8	7	30	21			4 34	PPP
SHILLONG	17.62	356.4	4	2K	-2	7	23	7			11 55	PCS
TOCKLAI	18.83	4.7	4	19	1	7	49	6			8 15	SS
KUNMING	19.47	27.2	4	27A	2	8	7	10				
CHATRA	19.66	344.2	4	29K	1	8	10	9			4 50	PP
POONA	21.47	301.4	4	50K	4	8	52	16			5 17	PP
SEHORE	21.60	316.5	4	54	6	8	58	19			5 21	PP
LHASA	21.73	355.2	4	49A	0	8	37	-4				
BOMBAY	22.51	301.1	5	1	4	9	11	16			5 16	PP
CANTON	24.65	49.9	5	20A	3	9	40	7				
HONG KONG	24.86	52.5	5	21	2	9	47	11				
CHENG TU	24.87	22.9	5	19A	0	9	36	0				
DEHRA DUN	26.39	329.7	5	36	2	10	23	22			6 29	PP
BAGUIO CITY	28.17	69.9	5	51	1	11	1	31				
MANILA	28.27	73.7	5	54	3						13 44	
LAHORE	29.32	325.9	5	58	-2							
LANCHOW	29.71	17.8	6	5	1							
SIAN	30.03	26.9	6	6	-1	10	57	-3				
TAINAN	30.10	57.0									16 59	
TAMU	30.39	58.7									18 20	
MWALIEN	31.67	56.4	5	43	-38							

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1961

PAGE 645

GOTEBORG	78.62	327.2	12	2	4				
SKALSTUGAN	78.88	333.3	12	1	1				
STUTTGART	80.03	318.1	12	7	1	22	12	7	
PAVIA	80.16	314.5	12	58	51	22	57	51	15 55
HEIDELBERG	80.39	318.7	12	9	1				
KARLSRUHE	80.60	318.4	12	13	4				17 3 PPP
STRASBOURG	81.04	317.9	12	15	4	22	27	12	17 11 PPP
MUNSTER	81.04	321.4	12	15	4				
BASLE	81.20	316.9	12	15	3				
BENSBERG	81.35	320.4	12	13	0				15 26 PP
MONACO	81.46	313.0	12	17	4				
ISOLA	81.71	313.5							15 30 PP
BESANCON	82.30	316.6	12	22	4				
DE BILT	82.54	321.6	12	22	3	22	39	8	23 33 PS
GARCHY	84.27	316.8	12	30	2				13 15 15 18 PP
CLERMONT-FD.	84.38	315.3	12	34	6				15 51 PP
PARIS	84.51	318.4	12	32	3	22	53	3	13 17 15 50 PP
KEW	86.00	321.2	12	40	4	23	4	-1	
ABERDEEN	86.23	327.1				23	17	10	29 19 SS
BAGNERES	86.80	312.9	12	44	4				
ALICANTE	87.94	308.3	12	42	-4	23	22	-1	29 17 SS
ALMERIA	89.73	307.0	12	58	4				13 34 16 33 PP
TOLEDO	90.43	310.2	13	1	3	23	39	-7	24 20 *SS
GRANADA	90.57	307.5	13	2A	4				14 2 16 58 PP
CAPE HALLETT	93.58	162.6	13	16	4	23	54	-20	31 41 SS
SCOTT BASE	94.26	168.2	13	19	4	23	41	-38	30 30 SS
COLLEGE	94.74	22.0	13	20	3				17 10 PP
RESOLUTE	97.44	2.1	13	32	2				
SOUTH POLE	97.83	180.0							15 54
BYRD STATION	106.25	174.4	14	15	777				
VICTORIA	115.33	25.9	18	41	5				
PENTICTON	116.27	23.2	18	43	5				
HUNGRY HORSE	119.13	20.4	18	48	4				
MINERAL	122.33	31.0	18	53A	3				
BERKELEY	123.80	33.4							20 33
LICK	124.53	33.4	19	5	11				
EUREKA	125.74	27.6	19	2	6				
FLAMING GRGE	127.21	21.3	19	3	4				21 1 PP
WESTON	127.98	345.3							21 5 PP
LARAMIE	128.14	17.8	19	6	5				
PASADENA	128.78	33.5	19	8	6				21 21 PP
BOULDER CITY	129.08	29.3	19	10	7				21 16 PP
GLEN CANYON	129.75	25.8	18	59	-5				21 9 PP
PALISADES	129.89	347.2	17	55	-69	25	55	-12	19 7 21 14 PP
PENNSYLVANIA	130.84	350.9	19	14K	8				21 26 PP
MORGANTOWN	132.29	352.7	19	16A	7				21 38 PP
WASHINGTON	132.56	349.5	19	21	12				21 40 PP
LAWRENCE	132.75	8.8	19	15	5				
TUCSON	134.04	28.5	19	20	8				22 54 PP
FAYETTEVILLE	135.73	8.4	19	20	5				22 34
WICHITA MTS.	136.22	13.9	19	12	-4				21 56 PP
LUBBOCK	136.40	18.2	19	23	6				
COLUMBIA	137.97	352.7							22 11 PP
SAN JUAN	146.79	322.0	19	41	6				
ST. VINCENT	147.03	309.2							19 41 PKP2
TRINIDAD	148.62	305.5							19 46 PKP2
CARACAS	152.98	312.2	19	52K	8	26	55	11	
LA PAZ	159.74	243.2	20	13	20				24 25 PP
FUQUENE	161.31	314.8	20	1	6				
BOGOTA	162.14	313.7	19	58	2				31 27 SKKS
CHINCHINA	162.96	318.2	20	3	7				

JULY 12 2.H 48.M 26.S EPICENTRE 39.11 23.47 DEPTH= 0.KM

A= 0.71362 B= 0.30983 C= 0.62830 D= 0.3983 E=-0.9173
G= 0.5763 H= 0.2502 K=-0.7780 HT= -1.4

SE= 3.24

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ATHENS	1.16	170.1										0 24 PG
SOFIA	3.58	358.4	0	57	-1	1	31	-11				
TITOGRAD	4.60	317.4	1	32	19	2	27	19				1 50 P*
ISTANBUL UN.	4.65	63.8										1 11
ISTANBUL KA.	4.72	63.8	1	27	13	2	29	18				

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1961		PAGE 646									
TARANTO	4.98	287.8									2 24
BUCHAREST	5.65	19.5	2 3	35		3 3	29				3 39 SG
BELGRADE	6.13	339.4	2 2K	28							4 20
CAMPULUNG	6.26	10.2									3 39
MESSINA	6.26	264.1	1 39A	3		2 52	2				1 54 P*
TIMI SOARA	6.84	346.7									3 42
FOCSANI	7.14	21.5									3 54
BACAU	7.87	17.6									4 16
IASI	8.62	19.0									4 47
ZAGREB	8.69	322.9	2 7	-3		4 58	68				
KISHINEV	8.82	24.6	2 16	4							
ROME	8.82	291.9	1 55	-17							2 56
LJUBLJANA	9.57	319.3	2 24	2		4 7	-5				3 14
TRIESTE	9.71	315.4				4 12	-3				5 22 SGSG
SIMFEROPOL	9.83	50.2	2 38	12		5 10	52				
BRATISLAVA	10.16	335.1	2 30	-1		3 47	-39				
VIENNA-H.	10.47	333.0	2 36	1							
PADOVA	10.65	310.0									5 54
LWOW	10.71	2.0									2 37
KRAKOW	11.22	348.2	2 46	1							7 52
HELWAN	11.27	142.6	2 42	-4							4 42
KSARA	11.30	114.1	2 44	-2		4 40	-14				
CHIAVARI	11.78	300.7	3 1	8		6 2	56				9 4
KASPERSKE H.	12.27	327.9	2 58K	-1		5 20	2				3 36
PRUHONICE	12.58	332.6	3 3	0							7 7
WARSAW	13.23	353.4									7 59
STUTTGART	14.04	318.0	3 22	-1							
COLLMBERG	14.23	332.3	3 26	1					3 54		8 40 PCP
JENA	14.48	328.6	3 29	0							3 35 PP
HALLE	14.78	330.7									9 43
CLERMONT-FD.	16.41	300.5									4 18
TIFLIS	16.45	74.1	3 56	2		7 17	20				
BENSBERG	16.48	321.3	4 26	32							
GARCHY	16.93	305.4	4 0	0							4 45
PARIS	17.89	309.6	4 15	3							
BAGNERES	18.00	290.2	4 33	19							
DE BILT	18.16	321.6									10 22
MOSCOW	19.12	25.0	4 23	-4							
FOLINIERE	19.69	307.2									4 33
KEW	20.69	314.4	4 48	3							
UPPSALA	21.08	351.8	4 46A	-3							5 7 PP
PULKOVO	21.13	9.6	4 44	-5							
NURMI JARVI	21.43	1.6	4 50	-2							
TEHERAN	22.39	89.9	5 2	0		9 3	-1				
UMEA	24.82	356.6	5 30	5							
SKALSTUGAN	25.40	348.3	5 30A	-1							
SHIRAZ	25.68	102.7	5 33	-1							
SODANKYLA	28.36	2.6	5 56	-2							
KIRUNA	28.82	357.6	6 0	-2							
LWIRO	41.45	171.9	7 52	2							
KHEYS	43.54	7.8	7 8	-59							
COLLEGE	76.13	356.2	11 51	-1							
HUNGRY HORSE	85.10	333.1	12 39	0							
FAYETTEVILLE	85.64	314.0	12 42K	0							
LARAMIE	87.48	324.2	12 50	-1							
WICHITA MTS.	89.08	315.7	12 59	0							

JULY 13 21.H 44.M 26.S EPICENTRE 22.68 123.17 DEPTH= 0.KM

A=-0.50538 B= 0.77306 C= 0.38336 D= 0.8370 E= 0.5472
G=-0.2098 H= 0.3209 K=-0.9236 HT= 4.0

SE= 4.04

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
HSINKONG	1.72	284.5	0	31	0	0	44	-10				
TAITUNG	1.87	272.5	0	31	-3	0	53	-5				
HWALIEN	1.92	312.3	0	32K	-2	0	49	-11				
TAWU	2.13	261.6	0	38	1	0	57	-8				
YUSHAN	2.20	291.7	0	34	-4	0	56	-11				
ALISHAN	2.34	291.4	0	39	-1	1	1	-9				
HENGCHUN	2.34	253.7	0	43	3	1	4	-6				
ILAN	2.46	328.2	1	4	22	1	16	3				
KAHSIUNG	2.68	269.3										
TAICHUNG	2.72	303.1	0	46	0	1	12	-8				

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1961

PAGE 647

TAINAN	2.74	277.2							
TAIPEI	2.79	327.4	0	47	0	1	13	-9	
HSINCHU	2.92	316.7	0	51	2	1	20	-5	
MANILA	8.21	194.3	2	10	7	3	42	4	
HONG KONG	8.34	269.1	2	3	-2	3	32	-9	
ZO-SE	8.57	348.4	2	5	-3				
CANTON	9.08	274.5	2	13	-2				
NANKING	10.13	338.3	2	26	-4				
SIAM	17.01	315.8	3	59	-2				
PEKING	18.29	342.6	4	17	0	7	36	-3	
KUNMING	18.84	281.5	4	24	0	8	10	19	
CHENG TU	18.86	299.0	4	21	-3				
MATUSIRO	18.98	40.0	4	29A	4	8	2	7	
TUKUBASAN	19.94	43.7	4	36	0				
PAOTOW	21.02	331.1	4	47	-1				
CHANGCHUN	21.17	4.3	4	48	-1				
MI ZUSAWA	22.43	38.9	5	3	1	9	9	5	
GUAM	22.43	110.4	4	12	-50	9	27	23	5 25
ULAN-BATOR	28.35	336.6	5	56	-2				
SHILLONG	28.68	282.1	5	57	-4				
Y.-SAKHLINSK	28.94	28.2	6	7	4	10	53	0	
LEMBANG	33.04	209.2	6	45K	6	12	3	5	
YAKUTSK	39.57	4.8	7	34	-1	13	30	-8	
PORT MORESBY	39.60	141.0	7	50	15				
PETROPAVLOVK	40.55	32.6	7	45A	2	13	4	-49	
DEHRA DUN	40.88	290.6							7 33
LAHORE	44.07	292.4	8	11	0				8 28
ANDI JAN	46.15	305.3	8	28K	0	15	14	0	
NAMANGAN	46.71	305.5	8	33	1	15	21	-1	
CHARTERS TS.	48.11	150.3	8	50	7				
TASHKENT	48.54	305.7	8	46	-1	15	47	-1	
STALINABAD	48.74	302.0	8	39	-9				
TIKSI	49.08	2.4	8	51	0	15	50	-6	
QUETTA	50.48	291.1	9	2	0	16	22	7	10 58 PP
SVERDLOVSK	56.34	324.1	9	42	-3				
ADELAIDE	59.20	165.2	10	11K	6				
RIVERVIEW	62.19	153.8	10	33	7				
CANBERRA	62.66	156.4	10	35	6				10 54
SHIRAZ	62.93	292.7	10	29	-1	18	49	-11	11 21 PCP
KHEYS	63.77	350.4	10	38	2	18	57	-13	
MAKHACH-KALA	64.65	308.1	10	41	-1	19	17	-4	
TIFLIS	66.83	307.1	10	56	0	19	45	-3	
MOSCOW	69.10	322.9	10	41	-29	19	17	-58	
COLLEGE	69.30	27.2	11	13	2				14 14 PP
SODANKYLA	71.77	336.1	11	26	0				
PULKOVO	72.10	327.9	11	44	16				
KAJAANI	72.20	332.6	11	31	2				
SIMFEROPOL	73.70	312.3	11	38	1				
TROMSOE	73.77	339.3	11	35	-3				11 53 PCP
KIRUNA	73.90	337.3	11	39	0	21	0	-10	11 55 PCP
NURMI JARVI	74.60	329.5	11	42	-1				
UMEA	75.41	333.5	11	50	3				12 5 PCP
KSARA	75.60	300.8	11	54	6				
JERUSALEM	76.76	299.0	11	56	1				
UPPSALA	78.11	330.2	12	3	1	21	48	-9	12 11
LWOW	78.64	319.3	11	5	-60				
SKALSTUGAN	78.73	334.8	12	9	3				
WARSAW	79.48	322.3				21	53	-18	
SOFIA	81.80	312.8	12	39	17				
COPENHAGEN	82.48	327.7				22	40	-2	20 34
PRUHONICE	84.13	322.0	12	46	12				
COLLMBERG	84.35	323.7	12	45	10				16 4 PP
HALLE	84.82	324.2	12	50	12				13 19
KASPERSKE H.	85.09	321.6	12	48	9				13 37
JENA	85.31	323.8	12	40	0				13 1
VICTORIA	87.57	37.6	13	2	11				
BANFF	90.24	32.5	13	13	9				
SHASTA	92.38	43.9	13	13	-1				
HUNGRY HORSE	92.76	34.2	13	19	4				
BUTTE	95.01	35.3	13	45	19				
SCOTT BASE	103.47	171.4							18 23 PP
SHAWINIGAN	109.60	11.6	18	16	777				
WICHITA MTS.	110.49	35.9							19 13 PP
SOUTH POLE	112.54	180.0	18	42	4				
CARACAS	145.57	17.8	19	47	7				

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1961

PAGE 648

JULY 15 0.H 17.M 53.S EPICENTRE 13.23 120.58 DEPTH= 60.KM

A=-0.49542 B= 0.83836 C= 0.22740 D= 0.8609 E= 0.5088
G=-0.1157 H= 0.1958 K=-0.9738 HT= 6.1

DEPTH OF FOCUS= 0.004R

SE= 2.69

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MANILA	1.51	18.6	0	26	0							
BAGUIO CITY	3.17	360.0	0	48	-1							
HONG KONG	10.89	326.8	2	25	-11	4	48	11				
NHATRANG	11.14	266.1	2	32K	-7	4	28	-15				
ZO-SE	17.79	1.7	4	4	-1							
NANKING	18.81	355.3	4	18	1	7	47	5				
KUNMING	20.56	307.7	4	40	4	8	28	10				
CHENG TU	23.12	321.3	5	3	1							
SI AN	23.45	335.1	5	5A	0	9	17	7				
LEMBANG	23.73	213.6	5	13	6	9	27	12				
ABUYAMA	25.46	29.7	5	24A	0							
PEKING	26.98	352.5	5	36	-2	10	11	2				
MATUSIRO	28.09	31.2	5	46	-2						9	1 PCP
PAOTOW	28.78	343.2	5	53	-1	10	37	-1				
SHILLONG	29.66	298.7	5	59K	-3							
CHANGCHUN	30.76	6.7	6	16	4							
VLADIVOSTOK	31.35	16.0	6	22	5							
LHASA	31.85	305.6	6	24	2	11	32	5				
CHATRA	34.06	298.5	6	41A	0							
BOKARO	34.53	292.9	7	15	30						12	30
PORT MORESBY	34.66	129.1	6	45	-1							
ULAN-BATOR	36.42	344.5	6	59	-2	12	39	2				
Y.-SAKHLINSK	38.46	24.5	7	24	6							
CHARTERS TS.	41.65	142.2	7	45	1						11	15
HONIARA	45.11	117.9									8	44
MUNDARING	45.14	185.2	8	13K	1							
LAHORE	46.11	301.2	8	20	0							
WARSAK DAM	48.93	303.7	8	44	2							
YAKUTSK	49.16	5.7	8	42	-2							
ANDI JAN	50.14	312.4	8	53	1	16	7	10				
NAMANGAN	50.72	312.5	8	57	1	16	13	8				
ADELAIDE	50.93	160.8	8	57A	-1							
BRISBANE	51.05	142.5	8	59	1						11	36
QUETTA	52.14	298.0	9	6	-1							
STALINABAD	52.18	308.7	9	10	3	16	33	8				
TASHKENT	52.54	312.2	9	6	-4							
RIVERVIEW	55.11	148.9	9	25A	-4							
CANBERRA	55.28	151.7	9	31	1							
SVERDLOVSK	62.74	327.6	10	20	-1	18	45	1				
SHIRAZ	64.62	296.7	10	33K	-1	19	11	4	10	53	11	9 PCP
MAKHACH-KALA	68.75	311.1	10	49	-11							
TIFLIS	70.74	309.8	11	10	-2							
KARAPIRO	72.37	137.2	11	22	0							
KHEYS	72.66	351.2	11	22	-1	20	50	8				
CHATEAU	73.06	138.3	11	26	0							
MOSCOW	75.22	324.5	11	37	-1						21	11
SIMFEROPOL	78.30	313.6	11	55	0							
KSARA	78.41	302.2	11	58A	2							
TANANARIVE	78.71	247.4	12	2	4						14	40 PP
COLLEGE	78.81	25.8	11	57	-1				12	9	15	29 PP
PULKOVO	78.82	328.9	11	57	-1							
JERUSALEM	79.27	300.2	12	3A	2							
SODANKYLA	79.41	336.9	12	0	-1							
KAJAANI	79.47	333.5	12	1	-1							
NURMIJARVI	81.49	330.2	12	12	-1	22	19	1				
KISHINEV	81.63	316.3	12	12	-1							
TROMSOE	81.71	339.7	12	14	0						12	45
UMEA	82.75	333.9	12	17K	-2							
HELWAN	82.89	298.9	12	21	1						13	19
LWOW	84.19	319.7									13	25
UPPSALA	85.06	330.4	12	29	-2						15	6
WARSAW	85.42	322.5	12	35	3							
SKALSTUGAN	86.18	334.8	12	36K	0							
SOFIA	86.39	312.9	12	36	-1						12	57
KRAKOW	86.69	320.6	12	39K	0				12	46	13	2
SKALNATE PL.	86.73	319.7	12	41	2						12	51 PCP
CHORZOW	87.19	321.0	12	40	-1						12	59 *SP
ATHENS	87.28	308.2	12	39K	-2							

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1961

PAGE 649

RACIBORZ	87.74	321.0	12 46	2					
BELGRADE	87.83	315.5	12 44K	0	12 51	13 9			
BRATISLAVA	89.03	319.4	12 49	-1					
VIENNA-H.	89.46	319.6	12 52	0					
PRUHONICE	90.00	321.6	12 55A	1			16 28	PP	
COLLMBERG	90.44	323.2	12 57A	1			16 32	PP	
MAWSON	90.61	198.9	12 58K	1					
HALLE	90.97	323.7	12 56	-3			13 18		
CAPE HALLETT	91.36	166.5	13 2K	1			16 40	PP	
LJUBLJANA	91.40	318.0	13 1A	0					
JENA	91.41	323.2	13 0	-1					
LWIRO	92.24	268.2					14 56		
MUNSTER	93.23	325.2	13 11	2					
STUTTGART	93.64	321.9	13 11	0					
BENSBERG	93.93	324.4	13 11	-1					
SCOTT BASE	94.55	171.2	13 16	1					
STRASBOURG	94.63	322.1	13 16	0					
ISOLA	97.00	318.3	13 27	1					
WOODY	105.72	46.7	13 19	777					
EUREKA	105.75	42.1	14 8	777			29 42	PKKP	
FLAMING GRGE	109.04	37.9	17 25	777					
TUCSON	113.20	46.1					30 21		
SHAWINIGAN	119.30	10.5	18 44	1					
WICHITA MTS.	119.54	36.7	18 44	1			20 0	PP	
SAN JUAN	147.90	12.0	19 40	4					

JULY 15 13.H 55.M 28.S EPICENTRE -7.00 116.93 DEPTH= 530.KM

A=-0.44960 B= 0.88499 C=-0.12102 D= 0.8915 E= 0.4529
G= 0.0548 H=-0.1079 K=-0.9927 HT= 6.9

DEPTH OF FOCUS= 0.078R

SE= 2.15

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C S	M	S	O-C S	M	S	M	S
DJAKARTA	10.07	274.0				4	14	-3				
DARWIN	14.70	112.4	3	7	0	5	35	-2				
MUNDARING	24.85	181.5	4	39	-3							
HONG KONG	29.24	354.8				9	40	3				
PORT MORESBY	30.00	96.6	5	27	0	9	47	-1				
CANTON	30.11	353.4	5	26	-2	9	51	1				
CHARTERS TS.	31.27	117.5	5	37	-1	10	3	-5				
ADELAIDE	34.31	147.3	6	4A	1	10	51	-3			7 38	PP
KUNMING	34.78	337.1	6	8	1	11	1	-1				
ZO-SE	38.10	5.9	6	37	2	11	49	-2				
NANKING	38.88	2.5				11	54	-8			8 14	
CHENG TU	39.44	342.3	6	46	1	12	7	-3				
BRISBANE	39.57	125.2	6	48	1	12	15	3				
SHILLONG	40.52	323.9	6	51	-3							
CANBERRA	40.75	138.3	6	56K	0						8 44	PCP
RIVERVIEW	41.38	134.9	7	4	3	12	41	3			7 55	
SIAN	41.72	350.0	7	6	2	12	40	-3				
HONIARA	42.63	96.3	7	10	-1							
LHASA	44.12	326.9	7	26	3	13	17	0				
CHATRA	44.30	320.6	7	27	3						8 57	
LANCHOW	44.55	344.8	7	27	1	13	19	-4			8 58	PP
PEKING	46.80	359.2	7	44	1	13	51	-4				
MATUSIRO	47.69	23.3	7	48K	-2	14	0	-7			9 8	PCP
PAOTOW	47.77	352.9	7	51	0	14	5	-3				
CHANGCHUN	51.15	7.8	8	15	-1	14	46	-8			16 56	
ULAN-BATOR	55.39	351.8									11 28	
LAHORE	55.89	315.7	8	49	0							
Y.-SAKHLINSK	58.45	20.4	9	6	-1	16	28	-1				
WARSAK DAM	59.21	316.5	9	11	-1							
QUETTA	60.52	310.4	9	19	-2	16	53	-2	11 9			
KARAPIRO	61.12	129.6	9	24	-1							
CHATEAU	61.45	131.0	9	27	0							
STALINABAD	63.65	319.3	9	40	-1							
TASHKENT	64.91	322.1	9	50	1	17	50	1				
TANANARIVE	68.29	252.5	10	10A	0							
PETROPAVLOVK	69.44	25.4	10	18	2							
AFIAMALU	70.24	102.2	10	21	0							
MAWSON	70.42	199.2	10	23	1				12 20		10 40	PCP
SHIRAZ	71.72	304.2	10	28A	-2	19	3	-4	12 22			
SCOTT BASE	75.29	170.4	10	50	0							

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1961

PAGE 650

TIKSI	78.86	3.8	11 7	-2			
TIFLIS	81.50	313.9	11 24	1			
SOUTH POLE	83.05	180.0	11 30	-1			
SOTCHI	85.61	314.7	11 33	-10			
BULAWAYO	86.06	250.3	11 46K	1			
KSARA	86.47	304.5	11 50	3	13 46		
JERUSALEM	86.65	302.4	11 49A	1	13 48		
BROKEN HILL	86.80	255.9	11 49	0			
HELWAN	89.65	300.0					13 49
MOSCOW	89.75	326.2	12 2	-1			13 3
COLLEGE	98.52	25.5	12 42	-1			
KIRUNA	98.89	337.6	12 44	0			
HUNGRY HORSE	120.48	37.0	17 51	0			
WOODY	121.64	52.2	17 55	2			
EUREKA	122.69	47.2	17 51	-4			
BOZEMAN	123.52	38.7	18 0	3			
TUCSON	129.03	53.9	18 10	2			
RAPID CITY	129.11	36.8	18 9	1			
WICHITA MTS.	137.23	44.8	18 17	-6			21 15 SKP
FAYETTEVILLE	139.40	40.0	18 20	-7			20 38 SPKP
SHAWINIGAN	139.72	10.4	18 26	-2			
MORGANTOWN	144.14	22.5	18 36K	0			20 46
WASHINGTON	145.82	19.6	18 54	15			20 58 PP
COLUMBIA	148.41	29.3	18 46	4			

JULY 16 5.H 22.M 37.S EPICENTRE -19.11-175.36 DEPTH= 173.KM

A=-0.94250 B=-0.07646 C=-0.32534 D=-0.0809 E= 0.9967
G= 0.3243 H= 0.0263 K=-0.9456 HT= 4.9

DEPTH OF FOCUS= 0.022R

SE= 1.76

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	O-C S	M	S	M	S
SUVA	5.96	278.2										
AFIAMALU	6.20	34.2	1	29	-2	2	48	13				
RAOUL ISLAND	10.36	192.5				2	32	-9				
PORT VILA	15.55	272.4	3	35K	4	4	18	-2				
NOUMEA	17.31	256.3	3	53A	1							
KOUMAC	19.21	262.3	4	12A	-1							
KARAPIRO	20.37	201.1	4	25	0							
TONGARIRO	21.52	199.6	4	33	-3							
WELLINGTON	23.66	198.8	4	54	-3							
BRISBANE	30.34	248.3	5	54	-4							
CANBERRA	35.34	235.5	6	39	-2							
CHARTERS TS.	36.12	261.9	6	46	-1						10	9
ADELAIDE	43.46	239.1	7	45A	-3							
DARWIN	52.06	269.0	8	52	-2							
CAPE HALLETT	53.86	185.4	9	10A	3							
SCOTT BASE	59.43	184.3	9	48	1							
BYRD STATION	65.61	170.9	10	26	-2							
MATUSIRO	70.61	321.8	10	57K	-1							
SOUTH POLE	71.01	180.0	11	1	0							
LICK	75.56	41.6	11	27A	0							
WOODY	76.36	44.3	12	32	60				13	26		
SHASTA	77.20	38.5	11	37	1						12	31
MINERAL	77.44	39.2	11	38A	0							
RENO	78.03	40.7	11	42	1							
TUCSON	80.11	50.9	11	54	2							
TUCSON TELE.	80.23	50.9	11	55	2							
EUREKA	80.41	42.5	11	53	-1							
ARGENTINE I.	81.27	156.6	11	58	0							
GLEN CANYON	81.96	46.5	11	44	-18				12	58		
MAWSON	83.70	199.1	12	9K	-2							
FLAMING GRGE	85.45	44.0	12	19	0				13	14		
COLLEGE	86.34	11.4	12	22	-2				13	14		
WICHITA MTS.	90.36	53.3	12	43	0				13	37	30	11 PKKP
FAYETTEVILLE	94.20	53.4	13	1	1				13	56		
TROMSOE	128.73	353.6	18	46	-1							
KIRUNA	130.27	352.2	18	49	-1							
KAJAANI	132.42	346.5	18	53	-1							
NURMI JARVI	136.25	345.8	19	1	0							
HALLE	147.16	351.6	20	13	52							
COLLMBERG	147.20	350.3	19	23K	2				20	21		

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1961

PAGE 651

JENA	147.77	351.8	19 24	3	
BENSBERG	148.15	357.0	19 26	4	
PRUHONICE	148.19	347.8	19 26K	4	20 23
KSARA	148.57	304.1	19 27	4	
KASPERSKE H.	149.19	348.5	19 29A	5	20 24
JERUSALEM	149.75	300.7	19 31K	7	
STUTTGART	150.17	353.8	19 31	6	
PARIS	150.32	2.9	19 33	8	
GARCHY	151.87	2.3	19 35	8	
LJUBLJANA	151.92	345.3	19 35K	7	
HELWAN	153.51	299.0	19 52	22	

JULY 16 6.H 47.M 28.S EPICENTRE -18.90-175.39 DEPTH= 216.KM

A=-0.94366 B=-0.07606 C=-0.32205 D=-0.0803 E= 0.9968
G= 0.3210 H= 0.0259 K=-0.9467 HT= 4.9

DEPTH OF FOCUS= 0.029R

SE= 2.26

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
AFIAMALU	6.06	35.4	1	25	-4	2	27	-12				
RAOUL ISLAND	10.55	192.1				4	17	-6				
PORT VILA	15.51	271.7	3	29K	0							
NOUMEA	17.33	255.7	3	49K	-1						4	15
KOUMAC	19.21	261.7	4	18K	8							
BRISBANE	30.39	248.0	5	50	-4							
RABAU	34.88	290.7									6	28
CANBERRA	35.43	235.2	6	34	-4						7	33 *SP
CHARTERS TS.	36.12	261.6	6	41K	-2	12	0	-6				
PORT MORESBY	37.46	279.3	6	52	-3						7	40
MELBOURNE	39.29	232.9	7	7	-3							
ADELAIDE	43.54	238.9	7	42K	-2							
CAPE HALLETT	54.06	185.4	9	5K	0							
SCOTT BASE	59.63	184.3	9	44	0						10	29
MUNDARING	62.23	243.3	9	58	-3							
MATUSIRO	70.43	321.8	10	51K	-2							
ABUYAMA	70.91	318.9	10	55K	-1							
SOUTH POLE	71.21	180.0	10	57	-1							
LICK	75.42	41.6	11	21A	-1						12	18
PASADENA	75.81	46.0	11	24	0							
FRESNO	76.25	43.0							12	22		
SHASTA	77.06	38.5	11	32	1							
MINERAL	77.31	39.2	11	33A	0						12	27
RENO	77.90	40.7							12	32		
BOULDER CITY	79.10	46.0	11	42	0				12	37		
TUCSON	80.01	51.0	11	49	2				12	45	12	21
TUCSON TELE.	80.13	51.0	11	49	1				12	46		
EUREKA	80.28	42.5	11	49	0				12	44		
NANKING	80.85	308.3	11	51	-1							
ARGENTINE I.	81.46	156.6	11	53	-2							
GLEN CANYON	81.84	46.5	12	0	3				12	56		
MAWSON	83.88	199.1	11	55K	-12						12	54 *SP
FLAMING GRGE	85.32	44.0	12	14	0				13	12		
COLLEGE	86.15	11.4	12	17	-1				13	14		
HUNGRY HORSE	86.40	35.9	12	19	0							
PEKING	86.51	314.3	12	20K	0							
SIAN	89.23	306.6	12	33K	0							
WICHITA MTS.	90.26	53.3	12	38	0	23	17	7	13	38	30	6 PKKP
KUNMING	90.83	296.2	12	41K	1							
PAOTOW	90.97	312.7	12	41	0							
CHENGTU	91.73	301.7	12	44K	0							
FAYETTEVILLE	94.10	53.4	12	55	0				13	53		
LHASA	102.11	297.3	13	2	-30							
QUETTA	122.79	294.2	18	31	0							
APATITY	128.02	346.4	18	40	-1							
TROMSOE	128.52	353.6	18	41	-1							
SODANKYLA	129.54	349.2	18	42	-2						21	45 SKP
KIRUNA	130.07	352.2	18	44	-1						21	47 PKS
KAJAANI	132.22	346.5	18	47	-2							
UMEA	133.87	350.5	18	52	0						22	0 PKS
SHIRAZ	135.31	293.3	19	5	10						22	2
NURMIJARVI	136.05	345.9	18	49	-7						22	7 SKP
UPPSALA	138.04	350.2	18	50	-9							
SIMFEROPOL	144.27	323.2	19	9	-2							

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1961

PAGE 652

STATION							
KISHINEV	145.65	330.2	19	14	1		
WITTEVEEN	146.11	357.8	19	17A	3		
MUNSTER	146.92	356.6	19	18	3		
COLLMBERG	147.00	350.3	19	19K	4	19	31 22 48 PP
RACIBORZ	147.05	343.8					19 18 PKP2
JENA	147.57	351.8	19	18	2		20 39
BENSBERG	147.95	356.9	19	20K	3	20	2 20 21 *SPKP
PRUHONICE	147.99	347.9	19	20K	3	20	24
KSARA	148.44	304.3	19	24	6		
KASPERSCHE H.	148.99	348.5	19	23	5		20 17
VIENNA-H.	149.21	344.6	19	24	5		
JERUSALEM	149.62	301.0	19	37K	18	20	24
FOLINIÈRE	149.93	6.7	19	21	1		
STUTTGART	149.97	353.8	19	20	0		19 26 PKP2
PARIS	150.12	2.8	21	27	6		
GARCHY	151.67	2.2	19	29	7	20	33
LJUBLJANA	151.72	345.3	19	26	4	20	27

JULY 16 14.H 1.M 36.S EPICENTRE -23.04 171.38 DEPTH= 21.KM

A=-0.91075 B= 0.13814 C=-0.38918 D= 0.1500 E= 0.9887
G= 0.3848 H=-0.0584 K=-0.9212 HT= 3.9

SE= 1.99

STATION	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
NOUMEA	4.61	278.3	1	9K	-1							
PORT VILA	6.01	331.0	1	32	2	2	56	16				
KOUMAC	7.04	289.2	1	46K	1	3	9	4				
AUCKLAND	14.10	168.7	3	17	-4							
KARAPIRO	15.26	167.4	3	38	2							
TONGARIRO	16.49	168.6	3	53	1							
BRISBANE	17.37	251.7	4	2	-1	7	5	-9				
HONIARA	17.41	319.2	4	2	-1							
AFIAMALU	18.36	63.3	4	15	0	8	3	26				
WELLINGTON	18.41	171.9	4	17	1	8	9	31				
GEBBIES PASS	20.63	177.4	4	35	-6							
RIVERVIEW	20.74	234.3	4	45K	3						5 8 PP	
ROXBURGH	22.45	183.8				9	18	18				
CAMBERRA	22.99	232.8	5	7K	3	9	24	15	5	22		
CHARTERS TS.	23.53	272.4	5	12	2	9	24	5				
RABAUL	26.38	312.4	5	36	-1							
PORT MORESBY	26.87	296.4	5	42	1	10	24	9			6 24	
MELBOURNE	27.00	230.9	5	45	2							
ADELAIDE	30.80	239.9	6	17	0							
MUNDARING	49.29	247.0	8	49	0							
CAPE HALLETT	49.30	180.5	8	50	0	16	6	12			10 51 PP	
HONOLULU	53.17	36.3	9	59	40	16	56	9				
SCOTT BASE	54.91	181.2	9	33A	1						10 43 PCP	
LEMBANG	63.23	274.0	10	34K	5							
MIRNY	64.47	205.7	10	35	-2							
MATUSIRO	67.03	331.4	10	51	-3	19	46	1				
SOUTH POLE	67.10	180.0	10	55	1							
HONG KONG	71.62	304.9				20	45	6			13 39 PP	
ZO-SE	72.19	316.2	11	23	-2	20	47	1				
CANTON	72.70	305.1	11	29	1	20	57	6				
NANKING	74.36	315.5	11	37	-1	21	12	2				
Y.-SAKHLINSK	74.38	340.1	11	38	0							
MAWSON	75.67	202.0	11	45K	-1				12	8		
PETROPAVLOVK	76.54	352.1	11	48A	-3	21	27	-7				
CHANGCHUN	78.81	327.9	12	1A	-2	21	58	-1				
PEKING	81.12	320.3	12	15	0	22	26	3				
KUNMING	81.96	301.5	12	22A	2	22	46	15			22 38 SKS	
SIAN	82.25	312.2	12	23A	2	22	42	8				
ARGENTINE I.	82.29	159.5	12	21	-1							
CHENG TU	83.80	306.9	12	31	2	22	59	9			22 53 SKS	
PAOTOW	85.17	317.9	12	36	0	23	8	5			23 3 SKS	
LANCHOW	86.73	311.4	12	44	0	23	20	2				
BERKELEY	86.88	46.6	12	46	1	23	17	-3				
VINEYARD	86.89	47.9	12	46	1							
LICK	87.02	47.3	12	47K	2							
PASADENA	87.82	51.5	12	49	0	23	29	0				
FRESNO	87.98	48.5	12	51	1							
SHASTA	88.31	44.1	12	52	1							
MINERAL	88.64	44.7	12	54K	1							

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1961					PAGE 653				
RENO	89.39	46.1	12 57A	0					
SHILLONG	90.89	297.4	12 58	-6					
BOULDER CITY	91.10	51.2	13 5	0					
ULAN-BATOR	91.20	322.6	13 4	-1					
VICTORIA	91.94	37.2	13 10	2					
EUREKA	91.94	47.7	13 9	1					
TUCSON	92.39	56.0	13 12	2					
TUCSON TELE.	92.51	55.9	13 13	2					
COLLEGE	93.10	16.2	13 11	-3					
LHASA	93.26	300.7	13 17	3	23 51	-27			
GLEN CANYON	93.87	51.5	13 19	2				13 46	
FLAMING GRGE	97.10	48.6	12 25	-67					
WICHITA MTS.	102.77	57.6	13 59	1	24 47	12			29 57 PKKP
MORGANTOWN	118.36	56.2	16 10	-156					
PALISADES	123.08	55.1							22 15 PPP
BREBEUF	123.40	49.8	17 50	-66					
BULAWAYO	123.77	223.2	18 57	0					
SHIRAZ	125.35	290.8	18 57	-3					
SAN JUAN	126.30	83.6	19 5	3					
TRINIDAD	128.26	94.6	19 9	4					
APATI TY	128.46	340.8	19 8	2					
MAKHACH-KALA	129.88	307.4	19 12	4					
SODANKYLA	130.54	342.9	19 12	2					
KIRUNA	131.73	345.7	19 13	1					22 33 PKS
TIFLIS	131.99	306.0	19 14	2					
MOSCOW	132.94	326.1	19 14	0					
UMEA	134.96	342.4	19 22	4					
NURMIJARVI	135.99	337.0	19 23	3					22 52 PKS
UPPSALA	138.85	340.2	19 27	2					
SIMFEROPOL	138.97	312.8	19 29	4					
KSARA	139.69	295.6	19 33	6					22 22 PP
JERUSALEM	140.33	292.4	19 32	4					
LWOW	143.02	324.5	19 30	-2					
ISTANBUL KA.	143.69	308.7	19 36	2					
ISTANBUL UN.	143.76	308.7	19 33	-1					
COPENHAGEN	143.86	339.8	19 33	-1					
BUCHAREST	144.49	315.4	19 36	1					23 38
KRAKOW	145.00	327.5	19 30	-6		19 52			
CHORZOW	145.30	328.5	19 37	1		19 50			
SKALNATE PL.	145.39	326.1	19 41	4					
RACIBORZ	145.82	328.8	19 40K	3		19 50			
SOFIA	147.05	314.2	19 42	3					21 36
HALLE	147.44	335.9	19 44	4					23 13 PP
PRAGUE	147.54	332.0	19 45	5					
PRUHONICE	147.56	331.7	19 43A	3					20 52
BRATISLAVA	147.63	327.1	19 43	3					19 46 PKP2
BELGRADE	147.82	319.5	19 44	3					20 41
VIENNA-H.	147.94	327.9	19 43	2					19 45 PKP2
JENA	148.04	335.6	19 44	3		20 6			22 45 PP
WITTEVEEN	148.06	342.4	19 43	2					
CHEB	148.39	333.9	19 47	5					
MUNSTER	148.53	340.6	19 46	4					
ATHENS	148.60	305.8	19 47A	5					
KASPERKE H.	148.61	331.5	19 46	4					21 40
DE BILT	149.20	343.4	19 48	2					23 24 PP
BENSBERG	149.55	340.1	19 50	7					21 24
HEIDELBERG	150.35	336.8	19 50	5					
LJUBLJANA	150.36	326.4	19 47	2					
STUTTGART	150.66	335.5	19 48	3					20 4
TUBINGEN	150.94	335.4	19 52	7					
TRIESTE	151.03	326.5	19 53	7					
STRASBOURG	151.38	337.0	19 56	10					
PARIS	152.82	343.8							23 41 PP
FLORENCE X.	153.61	326.4	20 7	18	27 10	18			
GARCHY	154.06	341.6	20 4	14					20 34
ROME	154.22	321.8	20 6	16	27 12	19			23 32 PKS
ISOLA	155.29	332.3	20 3	11					

JULY 16 21.H 8.M 53.S EPICENTRE 49.26 155.46 DEPTH= 85.KM

A=-0.59591 B= 0.27210 C= 0.75555 D= 0.4154 E= 0.9097
G=-0.6873 H= 0.3138 K=-0.6551 HT= -5.1

DEPTH OF FOCUS= 0.008R

SE= 2.11

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1961

PAGE 655

KSARA	81.41	312.9	12 11	2
CLERMONT-FD.	82.33	340.9	12 14	1
ATHENS	83.21	323.6	12 18K	0
JERUSALEM	83.40	312.2	12 21A	2
HELWAN	86.84	313.9	12 38	2
SCOTT BASE	127.04	177.0	18 56	2
ARGENTINE I.	153.82	142.4	19 50	9

13 4

JULY 16 23.H 3.M 28.S EPICENTRE -17.88-178.41 DEPTH= 557.KM

A=-0.95196 B=-0.02644 C=-0.30508 D=-0.0278 E= 0.9996
G= 0.3050 H= 0.0085 K=-0.9523 HT= 5.2

DEPTH OF FOCUS= 0.083R

SE= 1.70

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
SUVA	3.02	264.3				2	26	10				
AFIAMALU	7.50	59.2	1	53	0	3	21	-3				
ONERAHI	18.94	198.4	3	49	3							
KARAPIRO	20.67	193.7	4	2K	0							
WELLINGTON	24.05	192.7	4	30	-3							
CHARTERS TS.	33.45	260.5	5	55	1						8	19
CANBERRA	33.72	232.5	5	57A	1							
PORT MORESBY	34.46	279.5	6	5	2							
GUAM	47.87	308.1	7	45	-4							
SCOTT BASE	60.45	183.6	9	19	2							
BYRD STATION	67.28	170.7	9	59	-2							
MATUSIRO	67.88	323.3	10	4K	0							
WOODY	77.55	45.9	10	54	-5							
TUCSON	81.62	52.3	11	22	1							
TUCSON TELE.	81.74	52.3	11	23	2							
GLEN CANYON	83.25	47.8	11	30	1							
ARGENTINE I.	83.52	157.3	11	29	-1							
MAWSON	83.89	199.8	11	31K	-1							
COLLEGE	85.74	12.6	11	40	-1							
FLAMING GRGE	86.60	45.1	11	45	0							
WICHITA MTS.	91.97	54.2	12	10	0							
SHILLONG	97.28	294.4									15	47
TROMSOE	127.16	352.5	18	0	-1							
SODANKYLA	127.97	348.0	18	1	-1							
KIRUNA	128.63	351.0	18	4	0							
SHIRAZ	132.27	294.0									20	42
UMEA	132.35	348.9	18	11	0							
NURMI JARVI	134.32	344.3	18	7	-7							
UPPSALA	136.50	348.3	18	10	-8							
GOTEBORG	139.49	351.4	18	10	-14							
LWOW	143.38	335.5	18	31K	0							
KRAKOW	144.68	339.5	18	34	1							
COLLMBERG	145.44	347.4	18	35A	0						21	51 *SPKP
HALLE	145.46	348.6	18	36	1							
KSARA	145.49	304.1	18	38	3							
JENA	146.07	348.7	18	36	0							
PRUHONICE	146.32	344.9	18	39K	3						19	10
LWIRO	146.55	236.0	18	41K	5							
JERUSALEM	146.64	300.9	18	41K	5							
BENSBERG	146.69	353.6	18	40K	4							
ISTANBUL UN.	147.05	320.2	18	40	3							
KASPERSCHE H.	147.35	345.4	18	42	5							
STUTTGART	148.56	350.2	18	39	0							
STRASBOURG	148.96	352.0	18	46	6							
SOFIA	149.12	327.9	18	47	7							
PARIS	149.14	358.8	18	47	7							
FOLINIERE	149.14	2.7	18	40	0							
LJUBLJANA	149.92	341.9	18	48K	7							
HELWAN	150.39	299.3	18	50K	8							
GARCH	150.65	357.9	18	50	8						18	59 PKP2
ATHENS	152.15	320.4	18	52A	7							

JULY 17 1.H 1.M 15.S EPICENTRE 16.74 -97.82 DEPTH= 95.KM

A=-0.13035 B=-0.94925 C= 0.28623 D=-0.9907 E= 0.1360

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1961

PAGE 656

G=-0.0389 H=-0.2836 K=-0.9582 HT= 5.4

DEPTH OF FOCUS= 0.010R

SE= 2.62

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
OAXACA	1.04	74.3	0	13	-8	0	35	-2				
PUEBLA	2.31	351.0	0	37	0	1	9	4				
VERA CRUZ	2.93	33.0	0	44	-2	1	41	21				
TACUBAYA	2.96	333.8	0	39	-7	1	20	-1				
COMITAN	5.48	94.3	1	21	0						2	18
LEON	5.68	320.7	1	27	4							
GUADALAJARA	6.52	307.8									2	16
MANZANILLO	6.61	291.3									2	27
MERIDA	8.82	60.4	2	12	6	3	45	0			4	12
SAN SALVADOR	8.86	108.9	2	10	3							
SANTIAGO MA.	9.59	108.4									2	59
CHIHUAHUA	14.07	328.7									5	50
WICHITA MTS.	17.92	357.9	4	2A	-2	7	20	2				
BALBOA HTS.	19.40	111.2	4	16	-5	8	0	11				
TUCSON	19.43	325.0	4	20	-1	8	8	18				
TUCSON TELE.	19.44	325.4	4	21	0				4	26		
FAYETTEVILLE	19.54	8.8	4	20A	-2	8	9	17			10	54 SCP
LAWRENCE	22.26	5.3	4	50	0							
GALERAZAMBA	22.68	102.2				9	14	23				
COLUMBIA	22.87	38.1	4	54	-2	9	15	21				
GLEN CANYON	23.55	331.5	5	4	2	8	7	-59				
BOULDER CITY	24.41	325.0	5	10	-1							
CHINCHINA	24.70	115.8	5	11	-2	9	41	16			9	59 *SS
PASADENA	25.18	317.3	5	18A	0	9	48	15				
CHAPEL HILL	25.37	37.6	5	19	-1						5	47
LARAMIE	25.38	346.3	5	21	1						7	21
FLAMING GRGE	26.10	339.8	5	27	1							
FUQUENE	26.12	112.6	5	26	-1	10	2	13				
BOGOTA	26.22	114.7	5	27	-1	10	3	12			10	19 *SS
SALT LAKE C.	26.85	335.9	5	16	-17							
RAPID CITY	27.63	351.6	5	41	0							
EUREKA	27.64	328.7	5	42	1	8	52	-82				
FRESNO	27.87	320.0	5	41	-2						14	59
CLEVELAND	28.37	26.3	5	45A	-2	10	49	24				
WASHINGTON	28.58	35.3	5	46	-3						7	1 PP
GEORGETOWN	28.58	35.3	5	49	0	10	44	15				
VINEYARD	28.84	318.3	5	51	0							
LICK	29.37	319.0	5	55A	-1							
PENNSYLVANIA	29.53	31.7	5	57	0	11	1	17				
RENO	29.71	324.3	6	0A	1							
BERKELEY	30.08	319.2	5	55	-7	10	57	4				
SAN JUAN	30.25	82.1	6	3	-1							
CARACAS	30.63	97.7	6	2	-5						7	19 PP
BOZEMAN	30.90	341.8	6	12	2	11	25	20				
MINERAL	31.27	323.6	6	12A	-1							
BUTTE	31.68	340.3	6	15	-1							
FORDHAM	31.70	35.9	7	16K	59	12	26	68				
PALISADES	31.79	35.6	6	18	1	11	36	17			7	31 PP
SHASTA	31.96	323.3	6	16	-3							
ARCATA	33.05	322.0	6	39	11							
ST. KITTS	33.53	83.8	6	1	-31							
OTTAWA	34.04	28.3	6	36	-1							
WESTON	34.15	36.1	6	36A	-2	12	17	21				
HUNGRY HORSE	34.21	340.7	6	38	0	12	10	13				
CORVALLIS	35.08	327.7	6	46A	0							
BREBEUF	35.10	30.1	6	45	-1							
TRINIDAD	35.86	94.9	6	48	-4							
SHAWINIGAN	36.27	29.6	6	55	-1							
PENTICTON	37.01	336.2	7	3	1							
BANFF	37.16	341.5	7	2	-1							
VICTORIA	37.97	332.2	7	10A	0							
HALIFAX	39.99	38.7	7	29	2							
LA PAZ	44.13	137.0	8	3	2	14	33	7				
SANTIAGO	56.23	152.7	9	32	0							
RESOLUTE	57.97	0.9	9	43	-2							
COLLEGE	58.55	337.5	9	47	-2							
THULE	61.63	7.6	10	10	0							
DURHAM	80.04	35.8	12	1	1	22	16	21				
KEW	81.66	38.8				22	31	19				
KHEYS	82.02	3.9	12	12A	1							
TOLEDO	82.28	50.8	12	13	1							

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1961

PAGE 657

FOLINIÈRE	82.32	41.5	12 13	1				
TROMSØ	83.27	18.4	12 18	1				
GRANADA	83.34	53.3	12 18A	0	22 48	19		15 22 PP
SKALSTUGAN	83.76	25.0	12 20A	0				
PARIS	84.18	40.8	12 23	1				
ALMERIA	84.30	53.4	12 18	-4				
BAGNERES	84.41	46.8	12 24	1				
KIRUNA	84.68	19.6	12 24	0	22 57	15		
PETROPAVLOVK	84.68	323.9	12 23	-1				
GARCHY	85.04	42.2	12 26	0				13 23
WITTEVEEN	85.30	36.1	12 29	2				
CLERMONT-FD.	85.58	43.6	13 30	61				
GOTEBORG	86.15	30.4	12 32	1				13 5
BENSBERG	86.27	37.7	12 32	0				42 41 PCP
UMEA	86.76	23.1	12 35K	1				
SODANKYLA	86.89	18.6	12 34K	-1				
COPENHAGEN	87.26	32.1	12 38	1	23 21	14		15 57 PP
STRASBOURG	87.54	39.8	12 46	8				13 24
UPPSALA	87.75	27.1	12 38	-1				
STUTTGART	88.38	39.2	12 42	0				
COLLMBERG	89.48	35.9	12 47	0				16 20 PP
NURMIJARVI	90.33	24.7	12 51	0				
KASPERSKE H.	90.79	37.7	12 53	-1				16 29 PP
PRUHONICE	90.96	36.7	12 54	0				
PULKOVO	93.01	23.5						16 48
YAKUTSK	93.02	339.6	13 5	1				
LWOW	96.28	33.6	13 21	2				
ISTANBUL UN.	104.30	38.7	14 10	15				
SIMFEROPOL	104.67	33.1						15 14
SHIRAZ	125.73	32.0	18 51A	1				20 43
MAWSON	127.66	170.8	18 54	0				
WARSAK DAM	128.54	11.3	18 56	0				
BULAWAYO	129.24	102.5	18 57	0				
QUETTA	131.10	17.6	19 3	2				21 20 PP
MUNDARING	145.66	237.5	19 27	0				
TANANARIVE	146.99	99.1	19 37	8				19 44 PKP2

JULY 17 5.H 13.M 34.S EPICENTRE 27.55 55.38 DEPTH= 140.KM

A= 0.50444 B= 0.73063 C= 0.46013 D= 0.8229 E=-0.5682
G= 0.2614 H= 0.3786 K=-0.8879 HT= 2.6

DEPTH OF FOCUS= 0.017R

SE= 3.02

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
SHIRAZ	3.27	310.4	0	35	-16	1	10	-20			0	47 PG
TEHERAN	8.84	338.4	1	52	-13	4	12	29				
QUETTA	10.48	72.8	2	23	-4	4	17	-5				
GORIS	14.09	330.0	3	13	-1							
WARSAK DAM	15.31	61.2	3	16	-13							
TIFLIS	16.58	331.2	3	59	14	7	23	39				
LAHORE	16.96	71.9	3	49	-1							
KSARA	17.88	295.2	3	57	-4	7	19	7			7	59 SS
JERUSALEM	18.01	288.4	3	54	-8	7	18	3				
NAMANGAN	18.95	40.9	4	13	1							
ANDIJAN	19.22	42.4	4	16	1	7	51	11				
DEHRA DUN	20.03	76.7									8	17
SOTCHI	20.39	325.7	4	25	-2							
HELWAN	21.21	282.0	4	31	-4						11	35
SIMFEROPOL	24.28	321.2	5	1	-4						9	16
ISTANBUL KA.	25.46	308.8				9	45	15			14	10
ISTANBUL UN.	25.50	308.7	5	10	-6	10	5	34				
SVERDLOVSK	29.50	5.9	5	53	0							
MOSCOW	30.93	340.4	6	14	9							
SHILLONG	32.63	85.0	6	22A	2							
KRAKOW	35.11	319.5	6	42	1						7	9
LJUBLJANA	37.07	310.9	6	53	-5							
PRUHONICE	38.27	317.0	7	8	0						8	45 PP
KASPERSKE H.	38.58	315.4	7	7K	-3						8	3
NURMIJARVI	38.97	336.3	7	12K	-1	13	12	11			8	46 PP
LWIRO	39.15	225.1	7	17	2						22	38
COLLMBERG	39.65	318.5	7	17K	-2						8	51 PP
HALLE	40.34	318.4	7	24	-1							
JENA	40.38	317.5	7	21	-4							

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1961

PAGE 659

SIAN	29.47	91.7				15 32
KUNMING	29.78	113.2				17 8
KSARA	29.81	267.6	6 11		8	
PULKOVO	31.89	320.0	6 20		-1	
ISTANBUL UN.	32.52	284.4	6 27		0	
PEKING	32.91	77.4				17 21
APATITY	33.80	334.2	6 37		-1	
KAJAANI	34.42	326.8	6 43		0	
LWOW	34.51	301.1	6 45		1	8 0 PP
NURMIJARVI	34.82	320.0	6 47K		0	
HELWAN	35.07	264.5	6 49		0	
SODANKYLA	36.05	331.8	6 56K		-1	
UMEA	37.52	324.8	7 8		-1	
UPPSALA	38.21	318.1	7 14K		-1	8 44 PP
KIRUNA	38.44	331.2	7 16		-1	
TROMSOE	39.49	333.7	7 26		0	9 10 PP
KHEYS	39.88	356.3	7 29		0	8 52 PP
SKALSTUGAN	41.00	323.7	7 38		0	9 10 PP
COPENHAGEN	41.04	311.6	7 39K		0	
GOTEBORG	41.14	314.7	7 39K		0	9 9 PP
COLLMBERG	41.30	304.9	7 41		0	9 22 PP
LJUBLJANA	41.44	296.9	7 42A		0	
HALLE	41.91	305.4	7 46		0	9 15 PP
STUTT GART	44.19	302.1	8 5		1	
FLORENCE X.	44.33	294.7	7 50		-15	
BENSBERG	44.96	305.6	8 11		1	
MATUSIRO	50.28	72.6	8 50		-2	
FOLINIERE	50.34	304.7	8 52		0	
COLLEGE	69.64	17.1	11 3		-1	11 13
PORT MORESBY	84.80	107.2				13 20
RBAUL	85.00	100.0				13 48
SHAWINIGAN	87.30	336.8	12 42K		1	
CHARTERS TS.	91.48	115.5	13 1		0	
SCOTT BASE	130.80	163.8				23 2 SKP

JULY 17 16.H 20.M 21.S EPICENTRE 36.01 141.45 DEPTH= 56.KM

A=-0.63408 B= 0.50525 C= 0.58538 D= 0.6232 E= 0.7821
G=-0.4578 H= 0.3648 K=-0.8108 HT= -0.2

DEPTH OF FOCUS= 0.004R

SE= 3.38

	DELTA	AZ.	P O-C			S O-C			*PP		SUPP.	
	DEG.	DEG.	M	S	S	M	S	S	M	S	M	S
TYOSI	0.57	239.2	0	6A	-8	0	14	-10				
MITO	0.87	295.0	0	14K	-3	0	25	-5				
ONAHAMA	1.03	334.7	0	17	-2	0	34	1				
KAKIOKA	1.05	282.2	0	15K	-4	0	33	0				
TUKUBASAN	1.11	281.1	0	16	-4							
UTUNOMIYA	1.39	293.2	0	22K	-2	0	45	4			0	41
HONGO	1.40	258.0	0	21	-3							
TOKYO C.M.O.	1.42	257.0	0	21K	-3	0	36	-6				
SHIRAKAWA	1.48	318.5	0	23K	-2	0	45	1				
YOKOHAMA	1.58	248.9	0	24A	-2	0	48	2				
KUMAGAYA	1.68	275.2	0	25K	-3	0	55	6				
HERA	1.72	231.0	0	24A	-4	0	46	-3				
HUKUSIMA	1.90	335.9	0	29K	-2	0	56	2				
TITIBU	1.92	269.7	0	29	-2	1	0	6				
MAEBASI	1.96	282.0	0	28K	-3	0	57	2				
OSIMA	2.10	234.4	0	29A	-4	0	41	-18				
AJIRO	2.15	244.1	0	30A	-4	1	2	2				
MISIMA	2.23	247.1	0	33A	-2	1	6	4				
HUNATU	2.24	257.6	0	32	-3	1	9	7				
SENDAI	2.30	349.1	0	36K	0	1	7	3				
OIWAKE	2.37	278.5	0	35	-2	1	12	7				
KOHU	2.37	262.5	0	35	-2	1	13	7				
YAMAGATA	2.40	338.8	0	37	-1	1	13	7				
ISINOMAKI	2.41	357.5	0	37	-1	1	9	2				
MATUSIRO	2.67	282.3	0	39K	-2	1	23	10				
SHIZUOKA	2.70	248.2	0	37A	-5	1	16	2				
NIIGATA	2.71	315.4	0	42	0	1	27	13				
NAGANO	2.71	285.0	0	41A	-1	1	20	6				
TAKADA	2.80	293.8	0	42	-1	1	19	3				
MATUMOTO	2.83	275.8	0	45	1	1	21	4				

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1961

PAGE 660

OMAESAKI	3.00	242.9	0 47	1	1 21	0	
MI ZUSAWA	3.12	355.4	0 49	1	1 23	-1	
SAKATA	3.16	336.4	0 52	4	1 29	4	
HATIDYOZIMA	3.21	205.7	0 44	-5	1 21	-6	
AIKAWA	3.25	309.0	0 51	1	1 35	7	
TAKAYAMA	3.41	273.5	0 54	2	1 55	24	
TOYAMA	3.50	282.5	0 54A	1	1 53	19	
I I DA	3.65	262.7	0 45A	-10	1 33	5	
MIYAKO	3.65	6.3	0 53	-2	1 45	7	
MORIOKA	3.69	356.6	0 57	1	1 42	4	
AKITA	3.85	344.3	0 58	0	1 48	5	
GIHU	3.86	262.2	0 56	-2	1 58	15	
WAZIMA	3.90	291.8	1 0	1			
KANAZAWA	3.91	279.0	1 0	1			
KAMEYAMA	4.23	255.5	1 1	-2	1 56	4	
TU	4.24	253.4	1 15	12	2 19	27	
HIKONE	4.30	261.6	1 3	-1	1 53	-1	
TSURUGA	4.39	266.8	1 3	-3			
HATINOHE	4.51	0.8	1 6	-1	2 4	5	
OWASE	4.72	247.3	1 7	-3	2 26	22	
KYOTO	4.77	259.7	1 8	-3	2 23	17	
AOMORI	4.83	353.9	1 15	3	2 13	6	
ABUYAMA	4.94	258.3	1 10A	-3			
MAI ZURU	4.96	265.5	1 28	14	2 35	25	
OSAKA	5.03	256.0	1 11	-3			1 41
KOBE	5.30	257.3	1 31	13	2 34	15	
SIOMISAKI	5.33	243.0	1 14	-5	2 33	13	
TOYOOKA	5.41	266.8	1 19	-1	2 39	17	
WAKAYAMA	5.45	252.8	1 17	-3	2 29	7	
SUMOTO	5.61	254.6	1 20	-3	2 56	29	4 53
HAKODATE	5.81	354.9	1 30	5	2 41	9	
TOTTORI	5.93	267.3	1 26	-1			
MORI	6.12	353.8	1 33	3	2 57	18	
URAKAWA	6.21	9.2	1 31	0	2 40	-2	
TAKAMATU	6.29	256.6	1 30	-2	3 15	31	
HIROO	6.42	12.5	1 29	-5			2 45
TSURUGISAN	6.48	252.7	1 30	-5			3 7
MUROTO	6.60	247.4	1 21	-15	2 48	-3	
TOMAKOMAI	6.61	0.8	1 40	4			
YONAGO	6.62	267.3	1 36	-1	3 5	13	
MATSUE	6.84	267.7					1 58
SUTTSU	6.84	352.4	1 42	2	3 9	12	
KOTI	6.97	251.6	1 38	-4	2 59	-1	
OBIIHRO	7.03	10.6	1 47	5			
SAPPORO	7.05	359.4	1 45	2	3 6	4	
KUSIRO	7.32	17.2	1 42	-4	3 1	-8	
MATUYAMA	7.44	255.6	1 46	-2	3 55	43	
HIROSIMA	7.57	260.1	1 48	-2	3 23	8	
SIMIDU	7.72	247.7	1 27	-25			3 58
ASAHI GAWA	7.79	4.9	1 51	-2			
UWAZIMA	7.84	251.8	1 51	-3			4 12
RUMOE	7.93	0.9	1 54	-1	3 36	12	
NEMURO	7.97	22.3	1 49	-6	3 15	-10	
ABASHIRI	8.29	14.3	1 50	-10	3 27	-6	
OOTA	8.57	253.9	2 0	-4	3 44	4	
SIMONOSEKI	8.88	259.6	2 6	-2			
ASOSAN	9.12	253.1	2 17	6	4 51	58	
MIYAZAKI	9.28	246.8	2 10	-3	4 21	24	
WAKKANAI	9.40	1.0					4 4
HUKUOKA	9.42	258.3	2 13	-2	4 20	19	
KUMAMOTO	9.44	253.4	2 14	-2	4 9	8	
SAGA	9.59	256.5	2 29	11	5 22	77	
KAGOSIMA	10.09	247.1	2 21	-4	5 35	78	2 50
NAGASAKI	10.11	254.4	2 21A	-4	4 38	20	
VLADIVOSTOK	10.23	316.8	2 26	0	4 24	3	
KURILSK	10.41	25.9	2 32	3			
YAKUSIMA	10.71	241.9	2 30	-3	5 10	38	
TOMIE	11.02	255.8	2 34	-3	5 56	76	
Y. -SAKHLINSK	11.04	4.5	2 33	-4	4 36	-4	
CHANGCHUN	14.62	307.2	3 23A	-2	6 8	2	
ZO-SE	17.59	259.6	3 57A	-5	7 10	-4	
NANKING	19.19	264.7	4 16	-5	7 41	-9	
PEKING	20.29	289.0	4 28	-5			
TAIPEI	20.32	242.9					7 46
PETROPAVLOVK	20.87	30.1	4 40	1	8 30	6	
GUAM	22.65	171.7	4 58	1			6 5 PP
MAGADAN	24.33	11.6	5 16	3	9 34	8	
PAOTOW	25.00	290.0	5 17	-3			9 35
SIAN	26.60	275.8	5 32	-3	10 2	-1	

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1961								PAGE 661
YAKUTSK	27.05	347.8	5 39	0	10 16	5		
HONG KONG	27.36	247.5	5 37	-4	10 25	9	6 27	PP
CANTON	27.53	249.8	5 42	-1	10 20	2		
ULAN-BATOR	28.08	305.8	5 46	-2				
LANCHOW	30.30	281.3	6 5A	-3	11 10	7		
IRKUTSK	30.79	313.6	6 12	0	11 20	10		
CHENG TU	31.60	271.2	6 16	-3	11 21	-2		
KUNMING	34.85	262.8	6 44	-3	12 10	-3		
TIKSI	36.29	353.3	6 59	-1			7 38	
RABAU	41.24	163.7	7 36	-5				
LHASA	42.45	276.3	7 50A	-1	14 12	4		
SHILLONG	43.44	270.4	7 50A	-9	14 37	14		
CHITTAGONG	44.97	266.4	8 8	-3			9 53	PP
PORT MORESBY	45.49	172.1	8 12	-3	14 44	-8	15 52	*SS
SEMI PALATNSK	45.59	308.3	8 15	-1				
CHATRA	46.71	274.6	8 25K	0				
BOKARO	49.15	271.8	8 53	9				
COLLEGE	49.94	31.8	8 50	0	16 1	6	11 17	PP
FRUNSE	50.86	299.3	8 57	0	16 15	7		
DEHRA DUN	52.56	283.1	9 13	3	16 36	5		
LEMBANG	53.16	223.7	9 21A	7	16 38	-1		
KHEYS	53.65	348.3	9 18	0	16 54	8	19 6	SCS
HONOLULU	54.25	88.3			17 1	7		
LAHORE	54.98	286.2	9 27A	0	17 7	4		
TASHKENT	55.11	299.0	9 27	-1	17 11	6		
CHARTERS TS.	55.98	174.5	9 30	-5				
WARSAK DAM	56.13	290.0	9 35	-1				
QUETTA	61.29	287.9	10 10A	-2	18 27	1	10 23	12 26
RESOLUTE	63.58	14.3	10 26	-1	19 1	6	20 19	SCS
BRISBANE	63.96	168.8	10 13	-16	19 4	5		
ASHKABAD	64.18	299.3	10 30	-1				
SODANKYLA	65.92	337.4	10 42	0				
TROMSOE	66.69	341.2	10 47	0				
VICTORIA	67.10	46.0	10 51	2				
KIRUNA	67.48	339.4	10 44	-8	19 48	6	13 19	PP
KAJAANI	67.52	334.2	10 53	1				
MOSCOW	68.09	323.7	10 56	0	19 55	6	20 6	PS
PULKOVO	69.08	329.6	11 0	-2	20 5	4	13 38	PP
CORVALLIS	69.12	49.6	11 4	2				
RIVERVIEW	70.07	171.4	11 8	0				
BANFF	70.13	40.7	11 6	-2				
TEHERAN	70.14	300.1	11 8	0	20 9	-5		
UMEA	70.23	336.2	11 3	-6				
ADELAIDE	70.66	182.4	11 9	-2				
NURMI JARVI	70.86	332.1	11 12K	0			13 54	PP
CANBERRA	71.32	173.5	11 15	0				
TIFLIS	71.47	308.3	11 11	-5	20 22	-7	15 26	PPP
GORIS	71.65	305.7	11 18	1	20 38	7	14 6	PP
MUNDARING	71.65	202.4	11 17	0				
SHASTA	71.69	52.8	11 18	1				
MINERAL	72.39	52.7	11 24	2				
SHIRAZ	72.47	294.1	11 22K	0	20 44	3	21 10	*SS
HUNGRY HORSE	72.51	42.6	11 23	1				
SKALSTUGAN	72.88	338.7	11 24	0			14 8	PP
BERKELEY	73.29	55.2	11 27	0				
UPPSALA	73.89	334.1	11 29	-1	21 0	4		
RENO	73.98	52.7	11 33A	2				
LICK	73.99	55.4	11 33K	2				
FRESNO	75.53	55.0	11 41	1				
SIMFEROPOL	76.07	315.7	11 43	0	21 25	4	14 40	PP
EUREKA	76.46	51.0	11 46	1				
GOTEBORG	77.46	334.9	11 50	-1				
WARSAW	77.94	327.2	11 56	3			21 49	
PASADENA	78.11	56.5	11 55	1	21 48	5		
IASI	78.21	320.4	11 48	-7			12 31	
LWOW	78.22	324.0	11 56	1	21 49	5	15 2	PP
SALT LAKE C.	78.24	48.0	11 55	0				
COPENHAGEN	78.85	333.3	11 59	1	21 56	5		
FLAMING GRGE	79.61	46.7	12 3	1				
KRAKOW	79.97	326.1	12 4	0	22 6	4	15 5	PP
KARAPIRO	80.06	153.3	12 3	-2				
CHORZOW	80.22	326.7	12 5	-1			15 9	PP
SKALNATE PL.	80.44	325.3	12 0	-7			15 19	PP
RACIBORZ	80.72	326.9	12 10	2			12 18	PCP
GLEN CANYON	80.73	50.9	12 11	3				
BUCHAREST	80.82	319.0	12 8	-1			22 19	
RAPID CITY	81.05	41.3	12 11	1				
CHATEAU	81.18	153.9	12 8	-3				

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1961

PAGE 662

ISTANBUL KA.	81.39	315.0	12 19	7	22 23	6	
ISTANBUL UN.	81.46	315.0	12 13	1			
KSARA	81.77	305.9	12 16	2	22 34	13	15 27 PP
COLLMBERG	82.00	330.2	12 15	0			15 26 PP
HALLE	82.27	330.9	12 17	1			15 20 PP
HURBANOVO	82.33	325.4	12 10	-7			
PRAGUE	82.35	328.7					21 19
PRUHONICE	82.37	328.6	12 18	1			15 36 PP
BRATISLAVA	82.61	326.1	12 19	1			15 34 PP
JENA	82.86	330.7	12 19	0	22 39	7	15 42 PP
VIENNA-H.	82.88	326.5	12 21	1			15 32 PP
WITTEVEEN	83.19	334.3	12 22	1			
CHEB	83.20	329.8	12 29	8			
KASPERSKE H.	83.43	328.5	12 22A	0			15 35 PP
BELGRADE	83.45	322.1	12 24K	2	22 46	8	15 47 PP
SOFIA	83.46	319.1	12 24	1			12 53
JERUSALEM	83.47	304.6	12 23A	0			
MUNSTER	83.54	333.3	12 23	0			
DURHAM	84.16	339.5	12 37	11	23 18	33	22 48 SKS
TUCSON TELE.	84.17	54.1	12 27	1			
DE BILT	84.30	334.6	12 33	6	22 56	10	
BENSBERG	84.52	332.9	12 28	0			15 45 PP
HEIDELBERG	85.19	331.2	12 31	0			
LJUBLJANA	85.37	326.0	12 31A	-1			15 52 PP
STUTTGART	85.48	330.5	12 33	0	22 58	0	
TRIESTE	86.02	326.2	12 45	10	23 1	-2	15 59 PP
STRASBOURG	86.23	331.2	12 38	2	23 9	4	16 3 PP
KEW	86.65	337.2	12 36	-2	22 53	-16	23 17
HELWAN	87.26	305.3	12 39	-2			
BESANCON	88.01	331.4	12 45	0			
FLORENCE X.	88.59	326.4	12 46A	-2	23 4	-24	
GARCHY	89.08	333.1	12 50	0			13 0 PCP
WICHITA MTS.	90.09	45.5	12 56	1	23 34	-7	16 34 PP
FAYETTEVILLE	91.57	42.0	13 2K	0			
PALISADES	96.76	26.2			24 43	47	31 25 SS
TOLEDO	98.07	333.9	13 38	7			
LWIRO	109.56	281.9	18 59	777			
SCOTT BASE	114.63	174.3	18 43	9			
BULAWAYO	119.74	265.8	18 44	0			
ARGENTINE I.	146.98	160.4	19 33	-1			
LA PAZ	147.31	61.3	19 52	17			

JULY 18 14.H 3.M 40.S EPICENTRE 29.74 131.73 DEPTH= 39.KM

A=-0.57885 B= 0.64912 C= 0.49354 D= 0.7463 E= 0.6656
G=-0.3285 H= 0.3684 K=-0.8697 HT= 1.9

DEPTH OF FOCUS= 0.001R

SE= 2.22

	DELTA DEG.	AZ. DEG.	P			S			O-C			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S			
YAKUSIMA	1.28	304.0	0	21A	-1	0	41	2							
KAGOSIMA	2.09	331.3	0	34A	0	1	0	1							
MIYAZAKI	2.19	353.2	0	36A	1	1	5	4							
KUMAMOTO	3.19	344.3	0	49A	-1	1	25	-2							
ASOSAN	3.20	350.1	0	50	0	1	27	0							
SIMIDU	3.21	19.1	0	48A	-2	1	24	-3							
UNZENDAKE	3.24	337.4	0	56A	6	1	35	7							
NAGASAKI	3.37	332.5	0	52A	0	1	34	3							
OOITA	3.48	358.6	0	54	0	1	29	-5							
UWAZIMA	3.55	11.2	0	54	-1	1	32	-4							
SAGA	3.71	341.2	0	57A	0	1	47	7							
TOMIE	3.83	319.3	0	58A	-1	1	46	3							
HUKUOKA	4.00	343.7	1	1A	0	1	46	-1							
MUROTO	4.08	30.3	0	58	-4	1	41	-8							
KOTI	4.10	21.6	1	3A	1	1	46	-4							
MATUYAMA	4.19	12.1	1	4A	0	1	50	-2							
SIMONOSEKI	4.25	351.1	1	6	1	1	51	-3							
HIROSIMA	4.66	7.2	1	10A	0	2	0	-4							
ITUHARA	4.91	335.6	1	13A	-1	2	15	5							
TOKUSIMA	4.95	28.6	1	14A	0	2	11	0							
TAKAMATU	4.98	22.8	1	15A	0	2	11	-1							
SIOMISAKI	5.06	42.0	1	16A	0	2	11	-3							
HIMEJI	5.26	24.9	1	26	7	2	25	6							
OKAYAMA	5.27	20.1	1	20A	1	1	36	-43							

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1961

PAGE 663

SUMOTO	5.32	29.7	1 20A	0	2 51	30	1 46
WAKAYAMA	5.35	32.3	1 20A	0	2 21	0	
KOBE	5.73	29.8	1 25	0	2 26	-5	
OWASE	5.75	40.2	1 24	-2	2 27	-4	
MATSUE	5.81	10.9	1 27	1	2 33	0	
YONAGO	5.84	13.2	1 29	2	2 32	-1	
OSAKA	5.86	32.4	1 27A	0	2 44	10	
NARA	6.03	34.2	1 31	1	2 12	-26	
ABUYAMA	6.06	31.5	1 29A	-1			
TOTTORI	6.11	19.2	1 28	-3	2 35	-5	
KYOTO	6.26	31.7	1 33	0	2 44	0	
TOYOOKA	6.34	23.5	1 34	0	2 48	2	
TU	6.40	38.2	1 41	6	3 2	15	
KAMEYAMA	6.49	37.0	1 34A	-2	2 29	-21	
MAIZURU	6.50	27.5	1 36	0	2 48	-2	
HIKONE	6.71	33.5	1 38A	-1	2 56	1	
TSURUGA	6.94	30.7	1 42K	0	3 4	3	
GIHU	7.07	35.7	1 44A	0	3 0	-4	
OMAESAKI	7.33	47.0	1 52	4			
TORISIMA	7.47	82.2	1 47	-3			3 37
HATIDYOZIMA	7.66	62.0	2 5	13			
SHIZUOKA	7.68	45.5	1 51A	-2	3 21	2	
IIDA	7.73	40.2	1 53A	0	3 46	26	
TAKAYAMA	7.90	34.5	1 55	-1	4 18	53	
KANAZAWA	7.93	30.1	1 57	1	3 29	3	
MISIMA	8.13	46.8	1 59A	0			
AJIRO	8.18	47.8	1 58A	-2			2 59
OSIMA	8.19	50.3	1 58A	-2	4 0	28	
KOHU	8.25	42.5	1 59A	-2	4 24	50	
HUNATU	8.26	44.1	2 1	0	3 45	11	
TOYAMA	8.32	32.0	2 0K	-1	3 41	6	
MATUMOTO	8.34	37.3	2 3	1	3 51	15	
MERA	8.58	50.9	2 4A	-1			
MATUSIRO	8.69	37.0	2 6A	-1	3 50	6	
OI WAKE	8.72	39.3	2 6	-1	3 52	7	
WAZIMA	8.76	28.2	2 8	0			
YOKOHAMA	8.77	47.6	2 8A	0	4 19	33	
TI TIBU	8.77	42.9	2 8	0	4 23	37	
NAGANO	8.78	36.4	2 8A	0	3 39	-8	
TOKYO C.M.O.	8.99	46.7	2 12A	1	4 4	12	
MAEBASI	9.06	40.9	2 12A	0	4 45	51	
KUMAGAYA	9.07	43.2	2 13K	1	4 50	56	
TAKADA	9.14	34.9	2 13A	0	3 53	-3	
ZO-SE	9.21	281.1	2 10A	-4	3 57	0	
TUKUBASAN	9.55	45.2	2 17	-1	4 14	8	2 31 *SP
KAKIOKA	9.60	45.4	2 18A	-1	4 16	9	
UTUNOMIYA	9.63	43.0	2 20A	0	4 3	-5	
TYOSI	9.72	49.8	2 23A	2	4 19	9	
AIKAWA	9.88	31.5	2 22A	-1			
MI TO	9.88	45.6	2 23A	0	4 24	10	
ILAN	10.16	243.2	1 48	-39			
NIIGATA	10.18	34.8	2 28	1	3 57	-24	
TAIPEI	10.21	245.1	2 25	-3	5 4	42	
SHIRAKAWA	10.22	41.7	2 28	0	4 22	0	
ONAHAMA	10.51	44.4	2 30A	-2	4 35	6	
HWALIEN	10.69	239.9	2 30	-4	5 16	42	
HSINCHU	10.76	245.3	3 44	69			
HUKUSIMA	10.80	40.0	2 37	1	4 44	8	
YAMAGATA	11.10	37.8	2 40A	0	4 56	12	
TAICHUNG	11.31	243.1	2 46	3			
OSAKATA	11.32	34.1	2 44	1	4 53	4	
NANKING	11.36	285.0	2 41A	-2	4 54	4	
HSINKONG	11.39	236.9	2 41	-3	5 34	43	
SENDAI	11.41	39.4	2 43A	-1	4 56	5	
YUSHAN	11.48	239.6	2 41	-4			
ALISHAN	11.57	240.2	2 42	-4			
ISINOMAKI	11.76	40.0	2 49K	0	5 4	4	
TAITUNG	11.76	236.2	2 55	6	5 0	0	
AKITA	12.10	32.4	2 56A	3	5 8	0	
MIZUSAWA	12.16	37.1	2 54	0	5 9	0	
TAWU	12.19	235.4	3 0	6	5 29	19	
TAI NAN	12.30	239.6	3 22	26	5 40	27	
KAHSHIUNG	12.49	238.1	3 26	28			
HENGCHUN	12.52	234.6	3 4	5	5 20	2	
MORIOKA	12.60	35.5	3 1A	1	5 21	1	
MIYAKO	12.98	37.7	3 3	-2	5 23	-6	
AOMORI	13.29	31.3	3 12	3	5 37	1	
VLADIVOSTOK	13.35	0.6	3 12	2			

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1961

PAGE 664

HATINOHE	13.41	34.0	3 11	0	5 48	9	
HAKODATE	14.09	28.8	3 23K	4	5 55	0	
MORI	14.25	27.7	3 26K	4	6 9	10	
MURORAN	14.60	28.2	3 27	1			4 13
SUTTSU	14.72	25.4	3 30	2	6 20	10	
CHANGCHUN	14.96	341.8	3 30A	-1	6 20	4	
TOMAKOMAI	15.11	29.0	3 30	-3			
URAKAWA	15.26	32.8	3 31	-4	6 41	18	
SAPPORO	15.38	27.5	3 35	-1	6 28	2	
HIROO	15.62	33.6	3 33	-6			
OB IHIRO	16.06	31.9	3 42	-3			
RUMOE	16.23	26.4	3 48	1			
PEKING	16.36	313.0	3 48	-1	6 54	6	
ASAHIGAWA	16.38	28.3	3 49	0*			
KUSIRO	16.67	34.1	3 48	-5	6 36	-20	
ABASHIRI	17.41	31.6	4 0	-2			
HONG KONG	17.42	248.9	3 59A	-3			
WAKKANAI	17.51	23.9	4 2	-1	7 19	4	
NEMURO	17.51	35.5	4 1	-2	7 22	7	
CANTON	17.74	252.4	4 4A	-2	7 23	3	
MANILA	17.93	215.5	4 8	0	6 58	-26	
Y.-SAKHLINSK	19.25	23.3	4 22	-2			8 11
SIAN	19.85	289.0	4 28A	-3	8 6	-1	
GUAM	20.19	140.6	4 33	-1	7 29	-45	
PAOTOW	20.72	307.3	4 38A	-2	8 33	9	
CHENG TU	23.95	279.2	5 9A	-3	9 24	1	
LANCHOW	24.21	292.4	5 13A	-1			
KUNMING	26.10	266.8	5 32A	0	10 4	5	
ULAN-BATOR	26.34	320.5	5 38	3			26 40
KABANSK	28.99	327.3	5 59A	0	10 51	5	
IRKUTSK	30.25	325.8	6 10A	0	11 3	-3	7 15 PP
PETROPAVLOVK	30.49	32.6	6 13	1	11 13	4	12 50 SCP
YAKUTSK	32.31	358.2	6 27	-1			7 39 PP
MAGADAN	32.50	18.0	6 29	-1			
TOCKLAI	32.60	273.9	6 5	-26			
KLYUCHI	33.59	29.4	6 39	0	12 1	3	
LHASA	35.21	280.2	6 53	0	12 24	1	
SHILLONG	35.43	273.1	6 51K	-4	12 20	-6	8 6 PP
RABAUL	39.02	146.4	7 16	-9			
CHATRA	39.16	276.9	7 25K	-1	13 25	2	9 0 PP
CALCUTTA	39.40	270.0	8 44A	76	14 37	70	10 50 PPP
PORT BLAIR	40.43	252.0	7 41	4	13 35	-7	9 11 PP
BOKARO	41.21	273.0	7 44A	1	13 36	-18	9 17 PP
PORT MORESBY	41.65	156.7	7 46	-1	13 50	-10	9 53 PCP
TIKSI	41.97	358.6	7 40	-9	14 10	5	
DJAKARTA	42.98	217.9	7 54K	-4	14 22	2	
LEMBANG	43.11	216.4	7 34	-25	14 27	5	
SEMIPALATNSK	43.45	313.3	7 59	-2			
VI SHAKHAPTNM	45.62	266.1	8 20A	1	15 20	22	10 32 PP
DEHRA DUN	46.10	284.8	8 22	-1	15 2	-3	10 28 PP
FRUNSE	47.02	302.4	8 30	0	15 20	2	
HONIARA	47.49	140.7	8 32	-2			
LAHORE	48.92	287.4	8 43	-2	15 45	0	
HYDERABAD	49.95	268.3	8 49A	-4	15 56	-3	11 3 PP
KHOROG	49.99	295.7	8 54	1			
MADRAS	50.39	262.2	8 56A	0	16 5	0	10 54 PP
WARSAK DAM	50.65	291.2	8 56	-2			
TASHKENT	51.12	300.9	9 3	2	16 17	2	
CHARTERS TS.	51.48	162.5	9 7K	3	16 17	-3	
POONA	53.51	271.8	9 19K	0	16 50	2	12 44 PPP
BOMBAY	54.26	272.7	9 27	2	17 1	3	12 39 PPP
QUETTA	55.40	287.9	9 33K	0	17 16	3	12 51 PPP
KHEYS	58.20	349.3	9 53	0	17 49	-1	12 8 PP
COLLEGE	59.48	29.3	10 1	-1	18 14	7	
ASHKABAD	60.07	299.1	10 5	-1	18 15	1	13 58 PPP
BRISBANE	60.27	158.4	10 7	0	18 15	-2	
HONOLULU	63.05	79.8	10 29	3	19 0	8	
KIPAPA	63.07	79.6	10 26	0			
MUNDARING	63.11	194.8	10 26	0			
ADELAIDE	64.70	173.6	10 36K	-1	18 58	-15	19 32 PS
RIVERVIEW	65.84	162.3	10 44K	0	19 33	6	10 55 14 47 PPP
CANBERRA	66.73	164.7	10 50K	0			13 19 PP
SITKA	67.12	36.3	10 52	0	19 27	-15	
SHIRAZ	67.37	292.1	10 53A	-1	19 49	4	12 27 PCP
MOSCOW	68.17	322.6	10 58	-1	19 57	2	
SODANKYLA	68.44	336.3	11 0K	0	20 1	3	39 10 PKPPKP
TIFLIS	68.77	306.7	11 2K	0	20 7	5	20 57 SCS
KAJAANI	69.47	332.9	11 7K	0			

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1961

PAGE 665

AFIAMALU	69.62	120.3	11	8K	0	19	57	-15	13	32	PP
TROMSOE	69.86	339.9	11	8	-1	20	16	1	39	4	PKPPKP
RESOLUTE	71.52	11.8	11	19K	0	20	36	2	15	46	PPP
NURMIJARVI	72.39	330.2	11	23K	-1	20	45	1	38	53	PKPPKP
UMEA	72.48	334.4	11	26K	1				39	4	PKPPKP
THULE	73.35	4.8	11	30	0						
FORT NELSON	73.72	168.1	11	32	0	21	5	6			
SIMFEROPOL	74.59	313.1	11	37K	0	21	10	1	14	27	PP
SKALSTUGAN	75.51	336.3	11	41K	-2				21	50	SCS
UPPSALA	75.71	331.6	11	43K	-1	21	20	-1			
RAOUL ISLAND	75.82	136.0	11	46	2						
ONERAHI	76.52	145.5	11	53	5						
VICTORIA	77.27	41.2	11	54	2						
IASI	77.53	317.4	11	54	0				14	51	
LWOW	78.18	320.9	11	58	0	21	40	-8	15	1	PP
BACAU	78.24	317.1	11	57	-1	21	52	3	13	15	
WARSAW	78.46	324.0	11	59	0	21	49	-2	15	0	PP
KSARA	78.48	302.3	11	49K	-10	21	58	7	15	10	PP
FOCSANI	78.51	316.2	11	58	-1	22	10	19	14	44	
KARAPIRO	78.80	146.1	12	0A	-1						
PENTICTON	78.98	39.2	12	2	0						
GOTEBORG	79.36	331.7	12	3K	-1	22	1	1	38	47	PKPPKP
CORVALLIS	79.36	44.6	12	5K	1						
ISTANBUL KA.	79.69	311.4	12	6K	0	22	4	0	15	13	PP
ISTANBUL UN.	79.76	311.4	12	6A	0	22	10	5			
CHATEAU	79.81	146.9	12	6	0						
BUCHAREST	79.84	315.5	12	6K	-1	22	11	6	15	0	
COBB RIVER	80.03	149.8	12	8	0						
CAMPULUNG	80.04	316.6	12	10	2	22	10	3	12	40	
BANFF	80.11	36.1	12	8K	0						
KRAKOW	80.26	322.6	12	9K	0	22	13	3	14	58	
TUAI	80.27	145.6	12	7	-2						
COPENHAGEN	80.45	329.9	12	10K	0	22	15	3	15	16	PP
SKALNATE PL.	80.59	321.8	12	12	1	22	20	7	15	27	PP
CHORZOW	80.62	323.2	12	11	0				15	22	PP
KAIMATA	80.65	151.4	12	14	3						
WELLINGTON	81.10	148.6	12	11	-2						
RACIBORZ	81.15	323.3	12	15K	2	22	24	5	15	26	PP
TIMI SOARA	82.01	318.5	12	20	2	22	32	4			
BUDAPEST	82.25	320.8	12	21	2	22	38	8	16	29	PPP
UKIAH	82.27	49.3	12	19	0						
HURBANOVO	82.46	321.5	12	23	3	22	43	11	15	37	PP
SOFIA	82.46	315.1	12	21	1	22	41	9			
HUNGRY HORSE	82.56	37.8	12	22	1	22	33	0	15	37	PP
MINERAL	82.67	47.6	12	16K	-5						
BRATISLAVA	82.87	322.2	12	24A	2	22	42	5			
BELGRADE	82.99	318.1	12	24A	1	22	42	4	15	39	PP
COLLMBERG	83.01	326.3	12	23	0	22	43	5	17	41	PPP
PRUHONICE	83.08	324.7	12	24	1	22	44	5	15	32	PP
PRAGUE	83.08	324.8	12	25	2	22	45	6	15	43	PP
VIENNA-H.	83.21	322.5	12	26K	2	22	47	7	15	40	PP
HALLE	83.38	326.9	12	23	-2	22	46	4			
BERKELEY	83.58	50.0	12	26K	0	22	47	3	15	39	PP
SIDA	83.78	347.0	12	29K	2						
HELWAN	83.79	300.8	12	28	1	22	49	3			
JENA	83.93	326.6	12	28	0	22	52	5	15	44	PP
CHEB	84.10	325.6	12	27	-2	22	50	1	15	31	PP
REYKJAVIK	84.17	348.7	12	30K	1						
RENO	84.27	47.5	12	30K	1						
LICK	84.28	50.1	12	30K	0				15	48	
VIK	84.29	347.2	12	33	3						
BUTTE	84.77	39.1	12	32	0	22	49	-7			
VINEYARD	84.78	50.5	12	32K	0						
ATHENS	84.84	311.0	12	31K	-1	22	57	1	24	19	PPS
WITTEVEEN	84.89	330.1	12	34	1						
MUNSTER	85.06	329.1	11	34	-59						
ABERDEEN	85.08	336.8	12	36	3	22	59	1	15	41	PP
TITOGRAD	85.08	316.6	12	34	0	23	4	5	12	46	PCP
LJUBLJANA	85.57	321.6	12	36K	0	23	9	6	15	59	PP
BOZEMAN	85.82	38.7	12	39	2	23	1	-5	38	48	PKPPKP
FRESNO	85.82	49.8	12	38K	1						
BENSBERG	85.97	328.5	12	38K	0	23	10	3	12	46	
DE BILT	86.04	330.2	12	40K	2	23	4	-4	16	2	PP
TRIESTE	86.24	321.6	12	39	0	23	15	5	16	10	PP
HEIDELBERG	86.32	326.7	12	40K	0						
EDINBURGH	86.43	336.5	12	42	2	23	28	16	16	11	PP
STUTTGART	86.48	326.0	12	40K	0	23	5	-7	29	8	SS
EUREKA	86.73	45.8	12	42	0	23	21	7			
KARLSRUHE	86.74	326.6	12	43	1	23	21	6			

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1961

PAGE 666

TUBINGEN	86.75	325.9	12 42K	0				
DURHAM	86.76	335.0	12 48A	6	23 25	10		16 11 PP
RAVENSBURG	86.98	325.1	12 42	-1				
EBINGEN	87.03	325.7	12 43	0				
MACQUARIE I.	87.12	164.5	12 42	-1				
STRASBOURG	87.34	326.5	12 45K	0	23 20	0		16 14 PP
PADOVA	87.40	322.3	12 45	0	23 26	5	12 58	15 58 PP
TARANTO	87.47	316.0	12 46	1	23 16	-5		30 16 SS
CHUR	87.66	324.5	12 46K	0				23 9
BASLE	88.16	325.9	12 48	0				23 34
PASADENA	88.40	51.2	12 49K	-1	23 41	11		16 19 PP
SALT LAKE C.	88.45	42.9	12 51	1	23 36	5		38 38 PKPPKP
FLORENCE X.	88.81	321.4	12 50	-2	23 24	-10		
KEW	88.81	332.3	12 52K	0	23 36	2		16 24 PP
PRATO	88.82	321.5	12 54	2	23 39	5		
NEUCHATEL	88.84	325.8	12 51	-1	23 40	6		
PAVIA	88.97	323.4	12 52	0	23 42	6		29 37 SS
BESANCON	89.13	326.4	12 52K	-1				16 29 PP
ROME	89.36	319.4	12 54K	0	23 21	-18		16 22 PP
CHIAVARI	89.48	322.7	13 6	11	23 48	8	13 36	16 59 PP
BOULDER CITY	89.54	48.1	12 55	0				
PARIS	89.62	329.2	12 55	0	23 46	5		16 28 PP
FLAMING GRGE	89.78	41.6	12 57	1	23 57	14		16 37 PP
MESSINA	89.90	315.0	12 56	-1	24 9	25		
REGGIO CALA.	89.91	314.9	12 55	-2	23 50	6		
GARCHY	90.48	327.9	12 58	-1	23 37	-12		16 38 PP
ISOLA	90.76	323.7	13 0	-1				16 43 PP
MONACO	90.88	323.2	12 59	-2				
FOLINIERE	90.94	330.7	13 1	-1				
GLEN CANYON	90.99	45.7	13 2	0				16 38 PP
RAPID CITY	91.03	36.2	13 3	1				
JERSEY	91.31	331.7	13 5	2	23 53	-4		
CLERMONT-FD.	91.57	326.8	13 4K	0	24 3	4		
LARAMIE	91.68	39.4	12 7	-58				15 52
TANANARIVE	94.33	250.8	13 17K	0				17 12 PP
TUCSON	94.45	49.0	13 18	0	22 56	-88		17 13 PP
TUCSON TELE.	94.46	48.8	13 19	1				17 21 PP
BAGNERES	95.00	326.6	13 18	-2				17 13 PP
TORTOSA	96.52	324.9	13 30	3	24 26	27		
WILKES	97.14	188.5	13 14	-16	24 0	-3		17 24 PP
LAWRENCE	98.83	35.2	13 38	0				
ALICANTE	98.88	323.9	13 39	1	24 17	5		17 37 PP
TOLEDO	99.46	327.0	13 41K	1	24 24	10		17 49 PP
CHIHUAHUA	99.91	49.0			24 47	30		24 54 SKKS
WICHITA MTS.	100.23	40.1	13 44	0	24 20	2		17 48 PP
SERRA PILAR	100.50	330.6	13 45A	0	25 15	55		17 54 PP
SHAWINIGAN	100.90	16.9	13 46K	-1				
ALMERIA	101.05	324.1	13 49	1	24 27	5		17 58 PP
OTTAWA	101.16	19.3	13 47	-1				
COIMBRA	101.20	330.0	13 48K	0	24 24	1		18 0 PP
GRANADA	101.36	325.1	13 53A	4	24 29	5		18 5 PP
FAYETTEVILLE	101.58	36.4	13 50K	0				24 25 SKKS
BREBEUF	101.65	17.9	13 50A	0	25 28	63		
LWIRO	102.34	274.5	13 53	0				18 13
LISBON	102.73	329.6	13 58A	3	24 47	17		18 13 PP
CLEVELAND	102.76	25.0	13 59K	4	25 42	72		
PENNSYLVANIA	104.65	22.8	14 4	0				18 23 PP
HALIFAX	104.69	11.3	14 6	2				
WESTON	105.16	17.5	14 7A	777	26 0	79		18 14 PP
CAPE HALLETT	105.18	168.6	14 6	777	24 44	3		18 29 PP
PALISADES	105.71	19.9	14 9	777	24 46	2	14 22	18 19 PP
WASHINGTON	106.62	23.1	14 12	777				18 42 PP
BROKEN HILL	108.39	263.6	19 50	777				15 21 P
SCOTT BASE	109.36	172.6	18 27	777	24 57	-3		18 56 PP
MAWSON	109.61	202.3	18 27	777				18 59 PP
PONTA DELGDA	109.63	341.1						19 6 PP
BULAWAYO	110.75	258.1	18 31	2				14 30 P
TACUBAYA	110.76	51.6	18 27	-2	25 5	0		19 31 PP
VERA CRUZ	112.97	49.6						19 44 PP
PRETORIA	113.39	252.8	18 36	2				
OAXACA	114.07	51.7						27 52
MERIDA	115.78	43.3						19 52 PP
GRAHAMSTOWN	117.40	245.5						19 43 PP
LOME	120.63	298.5	18 50	2				20 10 PP
MBOUR	126.75	321.1	19 3	3				20 57 PP
SAN JUAN	129.16	22.0	19 5	0				21 13 PP
ANTIGUA	131.59	17.4	19 15	6				
GALERAZAMBA	132.05	36.9						23 49 PKS

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1961

PAGE 667

ST. VINCENT	135.54	18.2	19 17	0						21 54 PP
BARBADOS	136.01	16.0	19 24	6						
CARACAS	136.14	27.0	19 14	-4	26	28	5			
CHINCHINA	136.65	41.8	19 8	-11						22 57 PKS
FUQUENE	137.31	39.1	19 20	0						23 3 PKS
BOGOTA	137.82	40.2	19 13	-8						23 2 PKS
TRINIDAD	137.90	19.4	19 24	3						22 9 PP
ARGENTINE I.	143.10	168.9	19 27	-3						
HUANCAYO	149.33	60.7	19 44K	3						
LA PAZ	157.53	58.5	19 56	4	27	43	51			

JULY 18 14.H 33.M 58.S EPICENTRE 29.51 131.53 DEPTH= 0.KM

A=-0.57796 B= 0.65257 C= 0.49001 D= 0.7486 E= 0.6630
G=-0.3249 H= 0.3668 K=-0.8717 HT= 2.0

SE= 2.79

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
YAKUSIMA	1.30	316.7	0	25A	0							
KAGOSIMA	2.22	337.9	0	38A	-1	0	59	-8				
MIYAZAKI	2.41	357.8	0	44A	3	1	5	-7				
KUMAMOTO	3.38	348.1	0	55A	0	1	35	-2				
UNZENAKE	3.40	341.5	0	56A	1	1	33	-4				
ASOSAN	3.41	353.5	0	55	-1	1	31	-6				
SIMIDU	3.49	20.4	0	55K	-2	1	30	-9				
NAGASAKI	3.51	336.6	0	57A	0	1	28	-12				
OOITA	3.71	1.2	0	59	-1	1	26	-19				
UWAZIMA	3.81	13.0	0	59	-2	1	31	-17				
SAGA	3.88	344.6	1	2	0							
TOMIE	3.90	323.3	1	2	-1	1	58	8				
HUKUOKA	4.18	346.7	1	7A	1	2	9	12				
MUROTO	4.37	30.6	1	5	-4	2	49	47				
KOTI	4.38	22.4	1	8	-1	1	52	-10				
MATUYAMA	4.45	13.5	1	10	0	1	55	-9				
HIROSIMA	4.91	8.7	1	15A	-2	2	4	-11				
ITUHARA	5.06	338.3	1	18	-1	1	48	-31				
TOKUSIMA	5.24	28.9	1	21	-1	2	19	-5				
TAKAMATU	5.26	23.4	1	21	-1	2	12	-12				
SIOMISAKI	5.34	41.6	1	23	0							
HIMEJI	5.54	25.3	1	31	5	2	34	3				
SUMOTO	5.61	29.9	1	26	-1	2	55	22			4 29	
WAKAYAMA	5.64	32.4	1	37	10	2	30	-3				
KOBE	6.02	30.0	1	33	1	2	40	-3				
OWASE	6.04	40.0	1	31	-2	2	43	-1				
MATSUE	6.07	12.0	1	34	1							
YONAGO	6.10	14.1	1	35	1	2	37	-8				
OSAKA	6.15	32.5	1	32	-2						4 1	
NARA	6.32	34.2	1	37	0							
ABUYAMA	6.35	31.6	1	35A	-2							
TOTTORI	6.39	19.8	1	32	-6							
KYOTO	6.55	31.8	1	40	0	2	49	-7				
TOYOOKA	6.62	24.0	1	40	-1							
TU	6.69	38.0	1	44	2							
KAMEYAMA	6.78	36.9	1	52	9	2	43	-19				
MAIZURU	6.78	27.7	1	43	0	2	53	-9				
HIKONE	7.00	33.6	1	46	0							
TSURUGA	7.22	30.8	1	48	-1							
GIHU	7.36	35.6	1	52	1							
OMAE SAKI	7.62	46.5	1	56	1							
SHIZUOKA	7.97	45.1	2	0	0							
IIDA	8.01	39.9	1	59	-2							
TAKAYAMA	8.19	34.5	2	1	-2							
KANAZAWA	8.22	30.2	2	0	-3							
MISIMA	8.41	46.4	2	7	1							
AJIRO	8.46	47.3	2	5A	-2	2	34	-70				
OSIMA	8.47	49.7	2	7	0							
HUNATU	8.55	43.8	2	7	-1	3	50	4				
TOYAMA	8.60	32.1	2	11	2						5 16	
MATUMOTO	8.63	37.2	2	10	1	3	59	11				
MATUSIRO	8.98	36.9	2	11K	-3							
OIWAKE	9.00	39.1	2	14	0	3	50	-8				
WAZIMA	9.04	28.3	2	15	0							
TITIBU	9.06	42.6	2	18	3							
NAGANO	9.07	36.3	2	16	1	3	45	-14				

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1961

PAGE 668

ZO-SE	9.09	282.6	2	17A	2	4	10	10
TOKYO C.M.O.	9.27	46.3	2	22	4			
MAEBASI	9.34	40.7	2	19K	0			
KUMAGAYA	9.35	42.9	2	20K	1	4	30	24
TAKADA	9.43	34.8	2	19	-1			
TUKUBASAN	9.83	44.9	2	25K	-1			2 51
KAKI OKA	9.89	45.1	2	26	-1			
UTUNOMI YA	9.91	42.7	2	27	0			
MITO	10.16	45.3	2	38	8			
NI IGATA	10.47	34.7	2	33	-1			
SHIRAKAWA	10.51	41.5	2	35	0			
ONAHAMA	10.80	44.1	2	41	2			
YAMAGATA	11.39	37.7	2	47	0			
SAKATA	11.61	34.0	2	50	0			
SENDAI	11.70	39.2	2	50	-1			
ISINOMAKI	12.04	39.8	2	54	-2			
AKITA	12.39	32.4	3	8	7			
MI ZUSAWA	12.45	37.0	3	5	4			
MIYAKO	13.27	37.6	3	14	2			
ADMORI	13.58	31.3	3	20	4			
HATINOHE	13.70	34.0	3	17	-1			
HAKODATE	14.37	28.9	3	35	8			
MORI	14.54	27.8	3	33	4			
MURORAN	14.89	28.3	3	33	-1			
SUTTSU	15.00	25.5	3	38	3	6	10	-13
CHANGCHUN	15.13	342.5	3	41A	4			
TOMAKOMAI	15.39	29.0	3	51	11			
URAKAWA	15.55	32.8	3	41	-1			
SAPPORO	15.66	27.6	3	40	-4	6	16	-23
OB IHIRO	16.34	31.9	3	49	-3			
RUMOE	16.51	26.4	3	54	-1			
KUSIRO	16.96	34.1	3	56	-4			
HONG KONG	17.18	249.3	4	9	6			
CANTON	17.51	252.8	4	11	4	7	33	12
MANILA	17.64	215.4	4	15	6	7	25	1
ABASHIRI	17.69	31.6	4	12	3			
WAKKANAI	17.79	24.0	4	8	-3			
NEMURO	17.80	35.4	4	12	1			
SIAN	19.76	289.6	4	33	-1			
GUAM	20.12	139.7	4	39	1	7	0	-80
PAOTOW	20.73	307.9	4	49	4			
CHENGTU	23.82	279.7	5	15	0			
LANCHOW	24.14	292.9	5	17A	-1			
PETROPAVLOVK	30.77	32.6	6	20	1			
LHASA	35.09	280.5	6	57	0	12	27	-3
SHILLONG	35.27	273.3	6	56A	-2			
CHATRA	39.02	277.1	7	31	1			
PORT MORESBY	41.51	156.4	7	52	2			
DJAKARTA	42.69	217.8	8	16	16			10 56
LEMBANG	42.82	216.3	8	3K	2			
HONIARA	47.42	140.4	8	38	0			
LAHORE	48.83	287.6	8	48	-1			
WARSAK DAM	50.58	291.4	9	0	-2			
CHARTERS TS.	51.31	162.2	9	9	1	16	26	-1
QUETTA	55.31	288.0	9	38	0			
KHEYS	58.40	349.4	9	59	-1			
BRISBANE	60.12	158.2	10	13	1			
ADELAIDE	64.49	173.5	10	42K	1			
RIVERVIEW	65.67	162.1	10	51	3			
TEHERAN	66.02	298.7	10	58	7			
CANBERRA	66.55	164.5	10	56K	2			
SHIRAZ	67.30	292.1	10	55	-4	19	53	-1
MELBOURNE	68.16	168.6	11	4	0			11 22 PCP
SODANKYLA	68.59	336.3	11	5	-2			
KAJAANI	69.60	332.9	11	13K	0			
AFI AMALU	69.65	120.1	11	14K	1			
TROMSOE	70.02	339.9	11	14	-2			
RE SOLUTE	71.78	11.7	11	25K	-1			
NURMI JARVI	72.50	330.2	11	29K	-2	20	51	-4
UMEA	72.62	334.3	11	32K	1			14 14 PP
THULE	73.60	4.8	11	36	-1			
SIMFEROPOL	74.62	313.1	11	43	0			
UPPSALA	75.84	331.6	11	48K	-2			12 10
VICTORIA	77.55	41.1	11	59K	0			
LWOW	78.26	320.9	12	5	2			
KSARA	78.46	302.3	12	5	1			
PENTICTON	79.27	39.1	12	8	-1			
GOTEBORG	79.48	331.6	12	8K	-2			
CORVALLIS	79.65	44.5	12	12K	1			

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1961

PAGE 669

ISTANBUL UN.	79.79	311.4	12 12	0		
JERUSALEM	79.91	300.7	12 13K	1		
BANFF	80.39	36.0	12 13K	-2		
COPENHAGEN	80.57	329.9	12 15K	-1		
CHORZOW	80.70	323.1	12 16	0		12 57 SP
RACIBORZ	81.24	323.2	12 21	2		12 32 PCP
SHASTA	82.26	47.5	12 24	-1		
BUDAPEST	82.32	320.8	12 32	7		
SOFIA	82.51	315.1	12 27	1		14 16
HUNGRY HORSE	82.85	37.7	12 27	-1		
MINERAL	82.95	47.5	12 27K	-1		
BRATISLAVA	82.95	322.1	12 29A	1		
BELGRADE	83.05	318.0	12 30	1		12 40 PCP
COLLMBERG	83.1	326.2	12 29	0		15 50 PP
PRUHONICE	83.17	324.6	12 29K	0		
PRAGUE	83.18	324.7	12 30	1		22 49
VIENNA-H.	83.29	322.5	12 31K	1		
HELWAN	83.76	300.7	12 33	1		
SAN FRANCISCO	83.79	50.0	12 31	-1		
BERKELEY	83.86	49.8	12 32K	-1		
SIDA	83.97	346.9	12 35	2		
JENA	84.03	326.5	12 34	0	22 57 -1	
CHEB	84.19	325.6	12 34	-1		14 12
KASPERSKE H.	84.20	324.3	12 34K	-1		12 45 PCP
REYKJAVIK	84.36	348.6	12 45	10		
RENO	84.55	47.4	12 36K	0		
LICK	84.56	50.0	12 36K	0		
PARAISO	84.62	51.2	12 39K	2		
ATHENS	84.87	310.9	12 37A	-1		23 5 SKKS
BUTTE	85.06	39.0	12 37	-2		
TITOGRAD	85.14	316.6	12 51	12		13 10
MUNSTER	85.17	329.0	12 40	1		
LJUBLJANA	85.65	321.5	12 44	2		
BENSBERG	86.08	328.4	12 44K	0		
FRESNO	86.10	49.7	12 44	0		
BOZEMAN	86.11	38.6	12 45	1		
DE BILT	86.16	330.1	13 39	55		
TRIESTE	86.32	321.5	12 46	1		
HEIDELBERG	86.42	326.6	12 46	0		
STUTTGART	86.58	325.9	12 46	0		
KARLSRUHE	86.84	326.5	12 47	-1		13 23
TUBINGEN	86.84	325.8	12 47	-1		
DURHAM	86.90	334.9	12 54K	6		16 18 PP
EUREKA	87.01	45.7	12 48	-1		
RAVENSBERG	87.08	325.0	12 53	4		
EBINGEN	87.13	325.6	12 49	0		
STRASBOURG	87.44	326.5	12 50	-1		
PADOVA	87.48	322.2	12 55	4	23 35 4	24 30 PS
BASLE	88.26	325.8	12 54K	0		
PASADENA	88.68	51.1	12 56	-1		16 24 PP
SALT LAKE C.	88.73	42.8	12 57	0		
FLORENCE X.	88.88	321.3	12 47	-10		
NEUCHATEL	88.93	325.7	12 57	-1		
KEW	88.94	332.2	12 57	-1		
BESANCON	89.23	326.3	12 58	-1		16 41
PARIS	89.73	329.1	13 1	0		13 12 PCP
BOULDER CITY	89.82	48.0	13 0	-2		
FLAMING GRGE	90.07	41.5	13 2	-1		
GARCH	90.59	327.8	13 5	0		
ISOLA	90.85	323.6	13 6	-1		16 39 PP
MONACO	90.96	323.1	13 4K	-3		
FOLINIERE	91.06	330.5	13 7	-1		
GLEN CANYON	91.27	45.6	13 8	-1		
RAPID CITY	91.32	36.1	13 9	0		
CLERMONT-FD.	91.67	326.7	13 11	1		17 0
TANANARIVE	94.09	250.7	13 23	1		
TOLEDO	99.57	326.9	13 47	1		17 58 PP
WICHITA MTS.	100.52	40.0	13 51	0		17 59 PP
SHAWINIGAN	101.17	16.8	14 0	6		
GRANADA	101.45	324.9				18 7 PP
BREBEUF	101.92	17.8	13 45	-12		
CAPE HALLETT	104.98	168.6				18 33 PP
BROKEN HILL	108.20	263.4	17 52	777		
SCOTT BASE	109.15	172.6	18 33	777		22 35 PKS
BULAWAYO	110.54	258.0	18 36	2		
SAN JUAN	129.44	21.9	19 11	0		
CHINCHINA	136.94	41.7	19 27	2		
TRINIDAD	138.18	19.3	19 29	2		

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1961

PAGE 670

ARGENTINE I. 142.90 169.0 19 33 -3
 HUANCAYO 149.59 60.8 19 52 5
 LA PAZ 157.79 58.7 20 3 5

31 2 PKKS

JULY 18 15.H 16.M 17.S EPICENTRE 29.83 131.58 DEPTH= 48.KM

A=-0.57669 B= 0.64996 C= 0.49495 D= 0.7480 E= 0.6637
 G=-0.3285 H= 0.3702 K=-0.8689 HT= 1.9

DEPTH OF FOCUS= 0.002R

SE= 2.59

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
YAKUSIMA	1.12	303.5	0	18	-2	0	34	-1				
KAGOSIMA	1.95	333.1	0	32A	0	0	55	0				
MIYAZAKI	2.08	356.2	0	34	0	1	1	2				
KUMAMOTO	3.07	346.0	0	47A	-1	0	47	-37				
ASOSAN	3.09	352.0	0	48	0	1	21	-3				
SIMIDU	3.17	21.7	0	47	-2	1	24	-2				
NAGASAKI	3.23	333.7	0	49	-1	1	26	-2				
OOITA	3.39	0.5	0	52K	0	1	13	-19				
UWAZIMA	3.49	13.5	0	53	-1	1	31	-3				
SAGA	3.58	342.5	0	55	0							
TOMIE	3.68	319.8	0	55	-1							
HUKUOKA	3.87	345.0	0	59A	0	1	40	-4				
KOTI	4.06	23.6	1	0	-2	1	49	0				
MUROTO	4.06	32.4	0	59	-3	1	43	-6				
MATUYAMA	4.12	14.0	1	2	-1	1	48	-2				
SIMONOSEKI	4.14	352.5	1	1	-2							
HIROSIMA	4.58	8.8	1	8	-1							
TOKUSIMA	4.93	30.3	1	7	-7	2	4	-7				
TAKAMATU	4.94	24.5	1	12	-2	2	8	-3				
SUMOTO	5.31	31.3	1	17	-2						3	44
MATSUE	5.74	12.2	1	26	1							
OWASE	5.77	41.7	1	25	-1							
YONAGO	5.78	14.5	1	41	15	2	45	13				
OSAKA	5.85	33.8	1	14	-13						3	36
NARA	6.02	35.6	1	28	-1							
ABUYAMA	6.05	32.9	1	28A	-1							
KYOTO	6.25	33.1	1	27	-5	2	45	2				
TU	6.40	39.5	1	36	2							
KAMEYAMA	6.49	38.3	1	37	1						4	9
HIKONE	6.70	34.8	1	39	0							
TSURUGA	6.92	31.9	2	42	60							
GIHU	7.07	36.9	1	45	1							
IIDA	7.74	41.3	1	53	0							
MISIMA	8.15	47.8	1	54	-5							
HUNATU	8.28	45.1	1	59	-2	3	28	-6				
TOYAMA	8.31	33.0	2	48	47	5	18	104				
MATUMOTO	8.35	38.3	2	5	4							
MATUSIRO	8.69	38.0	2	4A	-2							
OIWAKE	8.72	40.2	2	12	5							
WAZIMA	8.73	29.1	2	8	1							
NAGANO	8.78	37.4	2	12	5							
TOKYO C.M.O.	9.01	47.6	2	9	-2							
MAEBASI	9.07	41.8	2	13A	2							
KUMAGAYA	9.08	44.1	2	8	-4							
KAKIOKA	9.63	46.3	2	20	1							
UTUNOMIYA	9.64	43.9	2	20	1							
SHIRAKAWA	10.23	42.5	2	28	1							
YAMAGATA	11.10	38.6	2	39	0							
ISINOMAKI	11.77	40.7	2	49	1							
AKITA	12.09	33.1									3	19
MIZUSAWA	12.16	37.8	2	55	2							
MORI	14.23	28.2	3	33	12							
SUTTSU	14.69	25.9	3	31	4							
CHANGCHUN	14.84	342.0	3	29	0							
SAPPORO	15.35	28.0									3	52
PEKING	16.20	313.0	3	50	4							
HONG KONG	17.34	248.4	4	9	9							
Y.-SAKHLINSK	19.22	23.7	4	52	29							
PAOTOW	20.57	307.2	3	41	-56							
CHENG TU	23.81	279.0	5	8	-2							
LANCHOW	24.06	292.2	5	11A	-1	9	22	-1				

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1961					PAGE 671				
PETROPAVLOVK	30.47	32.8	6 11	0					
SHILLONG	35.30	272.9	6 48K	-5					
CHATRA	39.03	276.8	7 23	-1					
LEMBANG	43.11	216.2	7 57K	-1					
LAHORE	48.78	287.3	8 42	0					
WARSAK DAM	50.50	291.1	8 55	-1					
CHARTERS TS.	51.61	162.3	9 2	-2				11	9
QUETTA	55.26	287.8	9 29	-2					
SVERDLOVSK	55.30	320.8	9 30	-1					
KHEYS	58.09	349.3	9 51	0					
COLLEGE	59.46	29.3	10 0	-1					
BRISBANE	60.41	158.3	10 6	-1				12	12
ADELAIDE	64.81	173.5	10 34K	-2					
APATITY	65.82	335.4	10 42	-1					
TEHERAN	65.91	298.6	10 45	2					
RIVERVIEW	65.97	162.2	10 52	8					
CAMBERRA	66.85	164.6	10 49K	0					
SHIRAZ	67.22	292.0	10 51K	-1	19	48	7	11	2
MOSCOW	68.02	322.5	10 56	-1				24	23
SODANKYLA	68.31	336.3	10 58	0					
TROMSOE	69.73	339.9	11 7	0					
KIRUNA	70.19	337.9	11 8K	-2					
RESOLUTE	71.45	11.7	11 17	-1					
NURMIJARVI	72.24	330.2	11 21	-1					
UMEA	72.34	334.3	11 23K	0					
SIMFEROPOL	74.43	313.0	11 36	1					
SKALSTUGAN	75.38	336.2	11 40	-1					
UPPSALA	75.57	331.6	11 41K	-1					
LWOW	78.03	320.9	11 56	1					
KSARA	78.33	302.2	11 57	0					
KARAPIRO	78.95	146.0	11 59	-2					
GOTEBORG	79.22	331.6	12 1K	-1					
ISTANBUL UN.	79.60	311.4	12 4	0				13	37
JERUSALEM	79.78	300.7	12 6	1					
CHATEAU	79.95	146.8	12 4	-2					
KRAKOW	80.11	322.5	12 6	-1				12	17
COPENHAGEN	80.31	329.9	12 7	-1				12	18
RACIBORZ	81.00	323.2						12	26
SOFIA	82.31	315.1	12 20	2				12	23
HUNGRY HORSE	82.57	37.8	12 20	0					
COLLMBERG	82.86	326.2	12 21K	0				12	24
PRUHONICE	82.93	324.6	12 23A	2					
PRAGUE	82.94	324.7	12 33	12					
VIENNA-H.	83.06	322.5	12 24	2					
HELWAN	83.63	300.7	12 26	1					
JENA	83.78	326.5	12 27	1	22	51	7		
KASPERSKE H.	83.96	324.3	12 27K	0				12	37
LJUBLJANA	85.42	321.5	12 35	1				13	5
BENSBERG	85.82	328.5	12 36	0					
DE BILT	85.90	330.1	12 32	-4					
TRIESTE	86.09	321.6	12 37	0					
STUTTGART	86.33	325.9	12 38	0					
DURHAM	86.62	335.0	12 48A	8					
EUREKA	86.75	45.8	12 41	1					
CHINA LAKE	87.86	49.5	12 46	0				16	12
BASLE	88.01	325.8	12 51	4					
PARIS	89.47	329.1	12 53	0					
GARCHY	90.34	327.8	12 57	-1				13	7
RAPID CITY	91.03	36.1	13 2	1					
LARAMIE	91.69	39.3	12 6	-58					
WICHITA MTS.	100.24	40.0	13 47	4				17	47

JULY 18 19.H 29.M 14.S EPICENTRE 29.60 131.30 DEPTH= 65.KM

A=-0.57481 B= 0.65433 C= 0.49137 D= 0.7513 E= 0.6600
G=-0.3243 H= 0.3692 K=-0.8710 HT= 2.0

DEPTH OF FOCUS= 0.005R

SE= 3.69

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	S	M	S	S	M	S		
ABUYAMA	6.38	33.4	1	23K	-11							
ZO-SE	8.87	282.2	2	9A	1	4	2	14				
MATUSIRO	9.03	38.1	2	0	-10	3	30	-22			2	
TUKUBASAN	9.91	45.9	2	13	-10						53	

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1961

PAGE 672

NANKING	11.04	286.0	2 38	0			
MIZUSAWA	12.50	37.9	2 58	1			
VLADIVOSTOK	13.51	1.9	3 7	-4			6 5
CHANGCHUN	14.99	343.0	3 29	-1	6 19	5	
PEKING	16.19	314.0	3 45	0	6 51	9	
HONG KONG	17.02	248.7			7 20	19	
Y.-SAKHLINSK	19.53	23.9	4 17	-8			8 10 SS
SIAN	19.54	289.5	4 25	0	8 5	8	
PAOTOW	20.51	308.0	4 33	-3	8 26	10	
UGLEGORSK	21.13	19.9	4 44	2	8 33	5	
CHENG TU	23.61	279.4	5 7	1	9 21	8	
LANCHOW	23.92	292.8	5 7	-2			
KUNMING	25.72	266.9	5 31	5	10 5	17	
ULAN-BATOR	26.22	321.0	5 28	-3			
PETROPAVLOVK	30.81	32.8	6 7	-5	11 5	-5	
LHASA	34.88	280.3	6 50	3	13 10	57	
SHILLONG	35.06	273.1	6 45	-4			
CHATRA	38.81	276.9	7 25	4			
TIKSI	42.10	358.9	7 47	-1			8 35
SEMIPALATNSK	43.28	313.5	7 52	-5			
FRUNSE	46.78	302.5	8 26	1			
LAHORE	48.61	287.4	8 39	0			
CHARTERS TS.	51.46	161.9	9 0	-1			
QUETTA	55.09	287.9	9 28	0			
KHEYS	58.27	349.4	9 50	-1	17 47	1	11 59 PP
COLLEGE	59.78	29.2	10 0	-1			
ADELAIDE	64.60	173.3	10 26	-7		10 39	
SHIRAZ	67.08	292.0	10 48	-1			14 21
MOSCOW	68.06	322.5	10 53	-2			
SODANKYLA	68.42	336.3	10 59	2			
TIFLIS	68.56	306.6	10 57	-1			20 57 SCS
TROMSOE	69.87	339.8	11 6	0			
PULKOVO	70.13	328.1	11 8	0			
KIRUNA	70.32	337.9	11 7	-2			
RESOLUTE	71.74	11.7	11 13	-4			15 55
NURMIJARVI	72.33	330.2	11 19	-2			12 10
UMEA	72.45	334.3	11 16	-6			
SIMFEROPOL	74.41	313.0	11 32	-1			
SKALSTUGAN	75.50	336.2	11 38	-1			
UPPSALA	75.66	331.5	11 37	-3			
KSARA	78.24	302.2	11 56	1			
GOTEBORG	79.31	331.5	11 57	-4			
JERUSALEM	79.69	300.6	12 7	4			
KRAKOW	80.15	322.5	12 3	-2			
COPENHAGEN	80.39	329.8	12 8	2			
SKALNATE PL.	80.47	321.6	12 10	3			
SHASTA	82.35	47.4					13 12
BRATISLAVA	82.76	322.0	12 22	3			
HUNGRY HORSE	82.90	37.7	12 18	-1			13 8
COLLMBERG	82.92	326.1	12 18K	-2			12 22 PCP
PRUHONICE	82.98	324.5	12 20	0			13 11
MINERAL	83.04	47.4					13 17
VIENNA-H.	83.10	322.4	12 20	0			
HELWAN	83.54	300.6	12 26	3			
JENA	83.84	326.4	12 23	-1			13 15
KASPERSKE H.	84.01	324.2	12 23	-2			13 16
BUTTE	85.12	38.9	13 19	48			
LJUBLJANA	85.45	321.4	12 31	-1			13 28
BENSBERG	85.89	328.3	12 36	2			
TRIESTE	86.12	321.4	12 38	3			
STUTT GART	86.39	325.8	12 40	3			
EUREKA	87.09	45.6	12 40	0			
WOODY	87.43	50.0	12 51	9			
GARCHY	90.41	327.7	12 58	2			13 46
RAPID CITY	91.37	35.9					14 6
BROKEN HILL	108.01	263.3	10 12	777			

JULY 18 23.H 42.M 40.S EPICENTRE 29.77 131.74 DEPTH= 46.KM

A=-0.57884 B= 0.64873 C= 0.49406 D= 0.7462 E= 0.6658
G=-0.3289 H= 0.3686 K=-0.8694 HT= 1.9

DEPTH OF FOCUS= 0.002R

SE= 2.77

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1961

PAGE 673

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PR		SUPP.	
			M	S		M	S	S	M	S	M	S
ABUYAMA	6.03	31.5	1	28A	-1							
MATUSIRO	8.65	37.1	2	4A	-2	3	52	9				
ZO-SE	9.21	280.9	2	10A	-3	4	3	6				
CHANGCHUN	14.94	341.7	3	33	3	8	3	108				
PEKING	16.34	312.9	3	50	2	6	59	12				
HONG KONG	17.45	248.8	4	10	8							
Y.-SAKHLINSK	19.21	23.3	3	29	-54							
CHENG TU	23.96	279.1	5	9	-2	9	26	4				
LANCHOW	24.21	292.3	5	11K	-2							
KUNMING	26.12	266.8	5	31	-1	10	4	6				
ULAN-BATOR	26.32	320.4	5	31	-3							
PETROPAVLOVK	30.45	32.7	6	12	1							
LHASA	35.22	280.2	6	51	-1	13	10	48				
SHILLONG	35.44	273.0	6	50A	-4							
CHATRA	39.17	276.9	7	22	-3							
ANDIJAN	48.87	299.8	8	48	5							
NAMANGAN	49.37	300.2	8	51	4							
TASHKENT	51.12	300.9	9	0	0							
CHARTERS TS.	51.51	162.5	9	2	-1							
QUETTA	55.41	287.9	9	31	-1							
SVERDLOVSK	55.43	320.8	9	36	4							
COLLEGE	59.44	29.3	10	0	-1							
BRISBANE	60.30	158.4	10	7	0					20	24	
ADELAIDE	64.73	173.7	10	36A	0							
RIVERVIEW	65.87	162.4	10	42	-1							
SHIRAZ	67.37	292.1	10	51A	-2							
MOSCOW	68.15	322.6	10	57	-1	19	41	-12				
SODANKYLA	68.42	336.3	10	58	-1							
KAJAANI	69.44	332.9	11	10	4							
TROMSOE	69.83	339.9	11	6	-2							
PULKOVO	70.18	328.2	11	40	30							
KIRUNA	70.30	337.9	11	10	-1							
RESOLUTE	71.48	11.8	11	18K	0							
NURMIJARVI	72.36	330.2	11	22	-1							
UMEA	72.46	334.4	11	22	-2							
SKALSTUGAN	75.49	336.3	11	39	-2							
UPPSALA	75.69	331.6	11	41K	-1							
LWOW	78.17	320.9	11	57	1							
KSARA	78.48	302.3	11	56	-2							
GOTEBORG	79.33	331.7	12	2	-1							
JERUSALEM	79.93	300.8	12	7	1							
KRAKOW	80.24	322.6	12	7	-1					12	12	PCP
COPENHAGEN	80.43	329.9	12	9	0							
SHASTA	81.94	47.6	12	18	2							
BRATISLAVA	82.86	322.2	12	21	0					12	27	PCP
COLLMBERG	82.99	326.3	12	22K	0					13	37	
PRUHONICE	83.06	324.7	12	23	1							
HELWAN	83.78	300.8	12	26	0					20	7	
JENA	83.91	326.6	12	26	0					13	6	
KASPERSKE H.	84.09	324.4	12	28K	1							
BUTTE	84.74	39.1	12	32	1							
LJUBLJANA	85.55	321.6	12	36	1					13	2	
BENSBERG	85.95	328.5	12	37	0					13	10	
TRIESTE	86.22	321.6	12	39	1							
STUTTGART	86.46	326.0	12	39	0							
EUREKA	86.69	45.8	12	22	-18							
DURHAM	86.73	335.0	12	50K	10							
STRASBOURG	87.32	326.5	12	44	1							
PARIS	89.60	329.2	12	55	1							
GARCHY	90.46	327.9	13	8	10							
RAPID CITY	91.00	36.2	13	2	1							
TUCSON TELE.	94.43	48.8	13	19	3							

JULY 19 6.H 33.M 19.S EPICENTRE 29.66 131.72 DEPTH= 18.KM

A=-0.57927 B= 0.64969 C= 0.49230 D= 0.7464 E= 0.6655
G=-0.3276 H= 0.3675 K=-0.8704 HT= 1.9

SE= 2.14

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
YAKUSIMA	1.32	307.0	0	24	0	0	41	-1				
MIYAZAKI	2.27	353.5	0	37	-1	1	2	-4				

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1961		PAGE 674					
KUMAMOTO	3.27	344.8	0 53	1	1 29	-2	
ASOSAN	3.28	350.4	0 53	1	1 30	-1	
SIMIDU	3.29	18.7	0 52	0	1 25	-7	
UNZENDAKE	3.31	338.0	0 54	1	1 32	0	
NAGASAKI	3.44	333.2	0 54A	-1	1 34	-2	
OOTA	3.56	358.6	0 56K	0	1 29	-10	
UWAZIMA	3.63	11.0					1 21
SAGA	3.78	341.6	1 2	3	1 47	3	
TOMIE	3.89	320.2	1 1	0			
HUKUOKA	4.07	344.0	1 4	1	1 45	-6	
KOTI	4.18	21.2	1 4	-1	1 47	-7	
MATUYAMA	4.27	11.9	1 5	-1	1 51	-5	
TSURUGISAN	4.61	24.4	1 12	1			
HIROSIWA	4.74	7.1	1 13	0	2 2	-6	
TOKUSIMA	5.03	28.2	1 16	-1	2 14	-2	
TAKAMATU	5.05	22.5	1 15	-2	2 11	-5	
SIOMISAKI	5.12	41.4	1 21	3			
OKAYAMA	5.34	19.9	1 20	-1	2 17	-6	
SUMOTO	5.40	29.3	1 20	-2	2 34	9	1 51
OWASE	5.82	39.8	1 26	-2	2 45	10	
MATSUE	5.89	10.8	1 30	1			
YONAGO	5.92	13.0					2 29
OSAKA	5.93	32.0	1 35	5			3 27
ABUYAMA	6.13	31.1	1 31A	-2			
TOTTORI	6.19	18.9	1 34	1			
KYOTO	6.33	31.4	1 34	-1	2 56	8	
TOYOOKA	6.41	23.3	1 35	-1	3 21	31	
KAMEYAMA	6.56	36.6	1 42	4			4 37
HIKONE	6.78	33.2	1 41	-1			
TSURUGA	7.01	30.4	1 46	1			
GIHU	7.14	35.4	1 46	-1			9 51
OMASAKI	7.39	46.5	1 51	1			
SHIZUOKA	7.75	45.1	1 55	0			
IIDA	7.79	39.8	1 55	-1			
MISIMA	8.19	46.4	2 1	0			
AJIRO	8.24	47.4	2 OK	-2			2 23
OSIMA	8.25	49.9	2 0	-2			
HUNATU	8.32	43.8	2 2	-1			
TOYAMA	8.39	31.7	2 4	0			
MATUSIRO	8.76	36.7	2 7K	-2			3 12
OIWAKE	8.78	39.0	2 12	2			
WAZIMA	8.83	27.9	2 9	-1			
TITIBU	8.83	42.6	2 14	4			
TOKYO C.M.O.	9.05	46.3	2 29	16			5 17
MAEBASI	9.12	40.6	2 14	0			
KUMAGAYA	9.13	42.8	2 15A	1	3 53	-5	
ZO-SE	9.22	281.6	2 16A	0	4 4	4	
KAKI OKA	9.66	45.1	2 17	-5			
MITO	9.94	45.3	2 27	1			
NIGATA	10.25	34.6	2 30	0			
SHIRAKAWA	10.28	41.4	2 30	0			
YAMAGATA	11.16	37.6	2 42	0			
NANKING	11.38	285.4					2 35
SENDAI	11.48	39.1	3 1	14			
AKITA	12.17	32.2	3 9	13			
MIZUSAWA	12.23	36.9	3 1	4			
MORI	14.33	27.6	3 32	8			
SUTTSU	14.79	25.3	3 31	0			
CHANGCHUN	15.04	341.9	3 36	2	6 26	5	
SAPORO	15.45	27.4	3 45	6			6 23
PEKING	16.41	313.2	3 55	4	7 0	7	
BAGUIO CITY	16.68	220.2	3 57	2	7 13	14	
HONG KONG	17.39	249.2					14 11
Y.-SAKHLINSK	19.33	23.2	4 24	-3			
SIAN	19.87	289.2	4 27	-6	8 0	-11	
PAOTOW	20.77	307.4	4 42	-1	8 38	9	
CHENG TU	23.96	279.4	5 13	-2	9 27	0	
LANCHOW	24.23	292.5	5 15	-2			
KUNMING	26.09	267.0	5 35	0	10 5	2	
PETROPAVLOVK	30.56	32.6	6 15	0			
YAKUTSK	32.39	358.2	6 39	8			
SHILLONG	35.43	273.2	6 55	-2			
ANDIJAN	48.91	299.9	8 51	4			
NAMANGAN	49.41	300.2	8 52	1			
TASHKENT	51.16	301.0	9 4	0			
CHARTERS TS.	51.40	162.4	9 6	0			
STALINABAD	51.98	297.6	9 13	2			
QUETTA	55.42	287.9	9 37	1			

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1961

PAGE 675

SVERDLOVSK	55.51	320.9	9 36	-1			
KHEYS	58.28	349.3	9 58	2	17	56	0
COLLEGE	59.55	29.2	10 4	-1			
BRISBANE	60.20	158.4	10 11	1			
ADELAIDE	64.62	173.6	10 40	1			
TEHERAN	66.10	298.7	10 50	1			
CANBERRA	66.65	164.7	10 54	2			
SHIRAZ	67.40	292.2	10 56	-1	18	53	-57
MOSCOW	68.23	322.6	11 2	0			16 15 PCP
SODANKYLA	68.52	336.3	11 3	-1			
GORIS	68.53	304.0	11 5K	1			
TIFLIS	68.81	306.7	11 2	-4			
TROMSOE	69.94	339.9	11 12	0			
KIRUNA	70.40	338.0	11 15	0	20	26	0
SOTCHI	71.57	310.0	11 24	2	20	39	0
RESOLUTE	71.60	11.8	11 21	-2			
NURMIJARVI	72.45	330.3	11 27	-1			
UMEA	72.55	334.4	11 26	-2			
SIMFEROPOL	74.64	313.1	11 42	2	21	19	5
SKALSTUGAN	75.59	336.3	11 47	1			
UPPSALA	75.78	331.6	11 47	0	21	25	-2
LWOW	78.24	320.9	12 2	1	21	58	5
KSARA	78.52	302.3	12 7	5	22	18	22
GOTEBORG	79.43	331.7	12 6	-1			
JERUSALEM	79.97	300.8	12 12K	2			
COPENHAGEN	80.52	329.9	12 14	1	22	20	3
RACIBORZ	81.22	323.3	12 29	12			
HUNGRY HORSE	82.63	37.8	12 24	0			
MINERAL	82.73	47.6	12 23	-1			
COLLMBERG	83.07	326.3	12 26	0	22	47	3
PRUHONICE	83.15	324.7	12 28	1	22	49	5
VIENNA-H.	83.28	322.5	12 29	2			
HELWAN	83.82	300.8	12 32	2			
JENA	84.00	326.6	12 31	0			13 1
KASPERSCHE H.	84.17	324.4	12 32K	0			13 9
RENO	84.32	47.5	12 33	0			
BUTTE	84.84	39.1	12 36	1			
LJUBLJANA	85.63	321.6	12 40	1			
FRESNO	85.88	49.8	12 42	2			
BENSBERG	86.03	328.5	12 43	2			
TRIESTE	86.30	321.6	12 45	3			
STUTTGART	86.55	326.0	12 44	0			
ISABELLA	87.39	50.1	12 47	-1			
STRASBOURG	87.41	326.5					23 27
FLORENCE X.	88.87	321.4	12 51	-4			
BOULDER CITY	89.60	48.1	12 58	0			
RAPID CITY	91.10	36.2	13 5	0			
TUCSON	94.51	49.0	13 22	1			
TUCSON TELE.	94.52	48.8	13 21	0			
WICHITA MTS.	100.30	40.1					17 35 PP
SCOTT BASE	109.28	172.6	18 58	777			
SOUTH POLE	119.49	180.0					18 50
LA PAZ	157.57	58.6	19 58	3			

JULY 19 11.H 58.M 46.S EPICENTRE 29.68 131.58 DEPTH= 32.KM

A=-0.57753 B= 0.65100 C= 0.49260 D= 0.7481 E= 0.6636
G=-0.3269 H= 0.3685 K=-0.8703 HT= 1.9

SE= 1.63

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S		
YAKUSIMA	1.21	309.7	0	22K	1	0	41	4				
KAGOSIMA	2.08	335.1	0	36A	2	0	57	-2				
MIYAZAKI	2.24	356.6	0	39	3	1	3	0				
KUMAMOTO	3.22	346.7	0	51	1	1	27	-1				
ASOSAN	3.24	352.4	0	51	1	1	27	-1				
UNZENDAKE	3.25	339.8	0	52A	2	1	30	2				
NAGASAKI	3.37	334.9	0	52A	0	1	27	-4				
OOITA	3.54	0.6	0	54K	0	1	25	-11				
UWAZIMA	3.64	13.0	0	56	0	1	35	-3				
SAGA	3.72	343.3	0	58	1	2	11	31				
TOMIE	3.79	321.3	0	58	0							
HUKUOKA	4.02	345.6	1	2A	1	1	42	-6				
KOTI	4.20	22.8	1	3	-1	1	46	-7				
MATUYAMA	4.27	13.5	1	5	0	1	51	-3				

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1961			PAGE 676											
SIMONOSEKI	4.29	352.8	1	5	0									
HIROSIMA	4.73	8.6	1	10	-1	2	0	-6						
TOKUSIMA	5.07	29.5	1	16	0	2	13	-1						
TAKAMATU	5.08	23.8	1	17	1	2	14	-1						
SIOMISAKI	5.19	42.5	1	17	-1									
SUMOTO	5.44	30.5	1	20A	-1	3	1	37				2	1	
OWASE	5.88	40.7	1	26	-2									
MATSUE	5.89	12.0	1	26	-2									
OSAKA	5.98	33.0	1	52	23							4	7	
NARA	6.15	34.8	1	32	1									
ABUYAMA	6.18	32.1	1	30K	-2									
KYOTO	6.38	32.3	1	33	-2	2	55	8						
TOYOOKA	6.44	24.3	1	34	-1	3	5	16						
TU	6.53	38.6	1	37	0									
KAMEYAMA	6.61	37.5	1	40	2									
HIKONE	6.83	34.1	1	42	1									
TSURUGA	7.06	31.3	1	44	0									
GIHU	7.19	36.2	1	45A	-1							8	27	
OMAESAKI	7.47	47.2	1	52	2									
SHIZUOKA	7.82	45.8	1	54	-1									
IIDA	7.86	40.5	1	52	-3	3	53	29						
MISIMA	8.26	47.1	1	59	-2									
AJIRO	8.31	48.0	2	0	-2									
HUNATU	8.40	44.4	2	1	-2									
TOYAMA	8.44	32.5	2	4	1									
MATUMOTO	8.47	37.7	2	4	0									
MATUSIRO	8.82	37.4	2	7K	-2	3	45	-3				5	36	
OIWAKE	8.84	39.6	2	8	-1							4	30	
WAZIMA	8.87	28.6	2	10	1									
YOKOHAMA	8.90	47.8	2	7	-3							6	10	
NAGANO	8.91	36.8	2	11	1									
ZO-SE	9.09	281.6	2	12	0	3	56	1						
TOKYO C.M.O.	9.12	46.9	2	29	16							3	10	
MAEBASI	9.19	41.2	2	14A	0									
KUMAGAYA	9.20	43.4	2	15A	1	3	36	-21						
TUKUBASAN	9.68	45.4	2	20A	-1									
UTUNOMIYA	9.76	43.2	2	22	0									
MITO	10.01	45.8	2	25	0									
NIIGATA	10.30	35.1	2	15	-14							6	40	
SHIRAKAWA	10.35	41.9	2	29	-1									
ONAHAMA	10.64	44.6	2	34	0									
HUKUSIMA	10.93	40.2	2	38	0									
YAMAGATA	11.22	38.1	2	41	-1									
NANKING	11.25	285.4	2	41A	-1	4	54	6						
SENDAI	11.54	39.6										3	45	
ISINOMAKI	11.89	40.2	2	50	-1									
AKITA	12.22	32.7	2	58	3									
MIZUSAWA	12.28	37.3	2	56	0							9	56	
MORI	14.37	28.0	3	28	5									
SUTTSU	14.83	25.6	3	32	3									
CHANGCHUN	14.98	342.2	3	33	2	6	23	6						
URAKAWA	15.38	33.0	3	35	-2									
SAPPORO	15.49	27.8	3	36	-2									
PEKING	16.30	313.4	3	48	0	6	56	8						
BAGUIO CITY	16.61	219.8	3	54	2	7	7	12						
HONG KONG	17.28	248.9	3	44	-17	6	42	-28						
MANILA	17.80	215.2	4	10	3	7	13	-9						
Y.-SAKHLINSK	19.36	23.5	4	24	-2									
SIAN	19.75	289.2	4	26	-4	8	5	-1						
GUAM	20.22	140.1	4	33	-2							4	57	
PAOTOW	20.66	307.5	4	39	-1	8	34	10						
CHENG TU	23.84	279.3	5	11	0	9	26	4						
LANCHOW	24.11	292.5	5	13A	-1							8	9	
KUNMING	25.97	266.9	5	30	-2	9	59	1						
ULAN-BATOR	26.31	320.7	5	34	-1									
KYAKHTA	28.01	324.6	5	49A	-1									
KABANSK	28.98	327.5	5	57	-2									
PETROPAVLOVK	30.61	32.7	6	13	-1									
YAKUTSK	32.37	358.4	6	31	2	11	40	0						
MAGADAN	32.60	18.1	6	28	-3									
SHILLONG	35.30	273.1	6	51K	-3									
PORT MORESBY	41.65	156.5	7	47	0	14	14	13						
TIKSI	42.03	358.7	7	50	0							8	19	
LEMBANG	42.99	216.3	7	57K	-1	14	18	-3						
SEMI PALATNSK	43.40	313.4	8	0	-2									
FRUNSE	46.94	302.4	8	30	0									
LAHORE	48.82	287.4	8	47	2									
TASHKENT	51.04	300.9	9	0	-2							16	24	PS

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1961		PAGE 677								
CHARTERS TS.	51.46	162.3	9	5	0			9	39	
QUETTA	55.30	287.9	9	31	-2					
KHEYS	58.24	349.3	9	54	0			12	5 PP	
COLLEGE	59.59	29.2	10	2	-1					
BRISBANE	60.26	158.3	10	8	0	18	23	5		
ADELAIDE	64.65	173.5	10	36K	-1					
RIVERVIEW	65.82	162.2	10	46	1					
TEHERAN	65.98	298.6	10	46	0					
CANBERRA	66.70	164.5	10	51	1					
SHIRAZ	67.28	292.1	10	51	-3	19	42	-3	18	29
MOSCOW	68.14	322.6	10	59	0	19	55	-1		
MELBOURNE	68.31	168.6	11	1	1					
GORIS	68.42	304.0	11	2	1	20	1	2	13	38 PP
SODANKYLA	68.45	336.3	11	1A	0					
TIFLIS	68.70	306.7	11	5	2	20	8	6		
KAJAANI	69.46	332.9	11	9	2					
AFIAMALU	69.70	120.1	10	39	-30					
TROMSOE	69.87	339.9	11	8	-2					
KIRUNA	70.33	337.9	11	11A	-2	20	23	2		
RESOLUTE	71.61	11.7	11	20K	0					
NURMIJARVI	72.38	330.2	11	25A	0					
UMEA	72.48	334.3	11	24A	-2					
THULE	73.43	4.8	11	32	1					
SIMFEROPOL	74.54	313.1	11	38	0	21	11	2		
SKALSTUGAN	75.52	336.2	11	42	-1					
UPPSALA	75.70	331.6	11	43	-1	21	20	-2		
LWOW	78.15	320.9	11	58	0	21	52	3	22	8 SKS
KSARA	78.41	302.3	12	1	2	21	24	-28	14	42 PP
WARSAW	78.44	324.0	12	3	3	21	55	3	12	8 PCP
KARAPIRO	78.82	146.0	12	2	0					
GOTEBORG	79.35	331.6	12	4	-1					
CORVALLIS	79.49	44.6	12	6	1					
ISTANBUL KA.	79.64	311.4	13	2	56	22	10	5		
BUCHAREST	79.80	315.4							22	8
CHATEAU	79.82	146.8	12	7	0					
JERUSALEM	79.86	300.7	12	9K	2					
KRAKOW	80.23	322.6	12	10	1	22	13	2	12	13 PCP
COPENHAGEN	80.44	329.9	12	11	1	22	18	5		
RACIBORZ	81.13	323.2	12	15A	1				12	24 PCP
SHASTA	82.11	47.5	12	20K	1					
HUNGRY HORSE	82.69	37.8	12	23	1				19	3
MINERAL	82.81	47.5	12	22A	-1					
BRATISLAVA	82.84	322.1							12	54
BELGRADE	82.95	318.0	12	26K	3	22	44	5	13	59
COLLMBERG	82.99	326.3	12	24K	0	22	44	5	15	41 PP
PRUHONICE	83.06	324.6	12	25	1	22	45	5		
PRAGUE	83.06	324.7	12	24	0					
VIENNA-H.	83.18	322.5	12	27K	2					
HALLE	83.36	326.8	12	26	0	22	47	4		
HELWAN	83.71	300.7	12	29	2					
BERKELEY	83.72	49.9	12	28A	1					
SIDA	83.81	346.9	12	30	2					
JENA	83.91	326.6	12	29	1	22	50	2	13	36
CHEB	84.07	325.6	12	27	-2				13	40
KASPERSKE H.	84.08	324.3	12	30K	1					
RENO	84.40	47.4	12	31K	0					
LICK	84.42	50.1	12	31K	0					
BUTTE	84.90	39.0	12	35	2					
MUNSTER	85.05	329.0	12	35	1					
LJUBLJANA	85.54	321.5	12	38A	2					
BOZEMAN	85.95	38.6	12	40	2					
BENSBERG	85.95	328.5	12	38	-1				13	10
FRESNO	85.96	49.7	12	40	1					
TRIESTE	86.21	321.6	12	41	1	23	18	7		
STRASBOURG	87.32	326.5	12	37	-8	23	26	5	21	32
PADOVA	87.37	322.2				23	34	12		
PASADENA	88.54	51.1	12	51	0					
KEW	88.81	332.2				23	37	2		
BESANCON	89.11	326.4	12	54	0					
ROME	89.32	319.3				23	42	2	39	52 SS
PARIS	89.61	329.1	12	54	-2					
BOULDER CITY	89.68	48.0	12	57	1				15	25 PP
GARCHY	90.47	327.8	13	0	0				13	9 PCP
MONACO	90.85	323.1	12	58	-4					
GLEN CANYON	91.12	45.6	13	4	1					
RAPID CITY	91.16	36.1	13	4	1					
LARAMIE	91.81	39.3	13	7	1					
TUCSON	94.59	48.9	13	21	2					

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1961

PAGE 678

TUCSON TELE.	94.60	48.8	13	21	2					
TOLEDO	99.44	326.9	13	38	-3				17	30 PP
WICHITA MTS.	100.36	40.0	13	45	0				17	49 PP
SCOTT BASE	109.31	172.6	18	57	777					
LA PAZ	157.67	58.4	19	59	6					

JULY 19 23.H 0.M 56.S EPICENTRE 37.71 20.12 DEPTH= 0.KM

A= 0.74467 B= 0.27281 C= 0.60914 D= 0.34440 E=-0.9390
G= 0.5720 H= 0.2095 K=-0.7931 HT= -0.8

SE= 3.71

	DELTA DEG.	AZ. DEG.	M	P S	O-C S	M	S	O-C S	*PP M S	SUPP. M S
ATHENS	2.86	83.8	0	47K	0					1 30 SG
TARANTO	3.54	321.8	0	52	-5	1	28	-12		
REGGIO CALA.	3.56	277.6	0	54	-3	1	37	-4		
MESSINA	3.64	279.0	0	54K	-5	1	34	-9		1 3 PG
SKOPJE	4.37	13.0	1	7	-2					2 33
TITOGRAD	4.76	352.3	1	12	-2	2	31	20		2 5
SOFIA	5.55	25.2	1	25	-1	2	40	9		
BELGRADE	7.10	1.9	1	43A	-4	3	9	-1		2 14 PG
ROME	7.21	307.8	1	48	-1	3	14	1		2 31
ISTANBUL UN.	7.63	61.5	1	55	0	4	29	66		
ISTANBUL KA.	7.70	61.4	1	52	-4	3	22	-3		
TIMI SOARA	8.07	5.5	2	17	16					4 48
BUCHAREST	8.08	32.1	2	0	-1	3	43	9		4 41 SG
CAMPULUNG	8.40	24.4								5 5
FLORENCE X.	9.05	314.8	2	24	9	4	2	3		
TRIESTE	9.25	331.0	2	23	6	3	53	-10		4 55 SGSG
LJUBLJANA	9.31	335.2	2	12	-6	3	56	-9		
BOLOGNA	9.48	318.4	2	28	7					4 51
FOCSANI	9.57	31.3								5 17
BUDAPEST	9.79	355.6	2	46	21	4	31	14		3 35 PG
PADOVA	9.86	323.8				4	9	-9		5 0
BACAU	10.18	27.5								6 22
HURBANOVO	10.25	352.7				4	17	-11		
BRATISLAVA	10.68	349.0	2	32	-5	5	44	65		
VIENNA-H.	10.88	346.6	2	33	-7					6 8 SGSG
IASI	10.95	27.7								6 39
PAVIA	11.09	315.7	3	48	65	5	40	51		
ISOLA	11.80	307.3	2	50	-2					3 8 PPP
CHUR	12.02	322.7	2	56	1	5	5	-6		4 59
HELWAN	12.16	126.7	2	51	-6					5 1
KRAKOW	12.33	359.4	2	55	-4					5 2
KASPERSKE H.	12.35	339.5	2	54K	-6					
LWOW	12.42	11.8	3	0	-1	5	16	-5		
RACIBORZ	12.44	354.2	3	2	1	5	16	-5		3 12 PP
CHORZOW	12.60	356.7	2	59	-4					3 14 PP
SIMFEROPOL	12.76	51.1								6 7
PRUHONICE	12.90	343.7	3	2	-5	5	23	-10		
PRAGUE	13.01	343.5	3	10	1	5	19	-16		
EBINGEN	13.25	325.6	3	12	0					
KSARA	13.37	102.2	3	11	-2	5	27	-17		
NEUCHATEL	13.44	317.8	3	14	0					
BASLE	13.45	320.8	3	13	-1					7 18
TUBINGEN	13.47	326.9	3	17	2					
CHEB	13.55	338.3	3	7	-9					
STUTTGART	13.57	328.0	3	14	-2	5	35	-14		3 40
JERUSALEM	13.75	111.0	3	13	-5	5	38	-15		
STRASBOURG	14.09	324.3	3	19	-4	6	19	18		7 15
BESANCON	14.11	316.9	3	19	-4	5	55	-7		
HEIDELBERG	14.29	328.5	3	22	-3					
COLLMBERG	14.49	341.9	3	25	-3					3 34 PP
WARSAW	14.53	2.2	3	30	1	6	7	-4		3 39 PP
JENA	14.54	338.0	3	23	-6	6	24	12		3 32 PPP
HALLE	14.95	339.9	3	36	2	6	36	15		
CLERMONT-FD.	15.01	307.8	3	36	1					
TORTOSA	15.51	287.6	3	38	-3	6	43	8		
GARCHY	15.77	312.7	3	42	-3					3 53 PP
SOTCHI	15.98	62.3	3	49	2	6	53	7		
BAGNERES	16.12	295.6	3	50	1					
BENSBERG	16.13	329.3	3	43	-6	6	59	10		7 23 SS
ALICANTE	16.25	278.6	3	52	1	6	54	2		4 4 PP
MUNSTER	16.75	332.3	4	0	3					

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1961

PAGE 679

PARIS	16.92	316.5	4	2	3					
DE BILT	17.80	328.7	4	12	2	7	39	11		
ALMERIA	18.00	274.2	4	5	-8	7	29	-3	4	26 PP
FOLINIÈRE	18.58	313.1	4	17	-3					
COPENHAGEN	18.70	346.4	4	20K	-2	7	53	5	4	35 PP
GRANADA	18.84	275.7	4	21K	-2	7	51	0	4	50 PP
TOLEDO	18.95	284.0	4	21	-4	7	55	1	4	43 PP
TIFLIS	19.38	70.4	4	27	-3	8	17	14		
KEW	19.93	320.2	4	33K	-3	8	16	1		
GOTEBORG	20.70	347.6	4	41	-3					
MAKHACH-KALA	21.47	67.2	4	49	-3	8	50	4		
MOSCOW	21.54	27.6	4	51	-2	8	49	2		
UPPSALA	22.21	356.7	4	55	-4	8	59	-1		
COIMBRA	22.30	285.3	4	57	-3					
DURHAM	22.57	326.1	5	13	10	9	15	9		
NURMI JARVI	23.00	5.8	5	4	-3	9	11	-3		
PULKOVO	23.02	13.2	5	4	-3					
ABERDEEN	24.39	330.1	5	23	2	9	42	4	10	56 SS
TEHERAN	25.08	84.9	5	24	-3	9	53	3		
UMEA	26.14	0.1	5	33K	-4					
SKALSTUGAN	26.33	352.1	5	33	-6				6	5 PP
KAJAANI	26.79	7.4	5	40	-3					
SHIRAZ	28.03	97.0	5	51	-3	10	36	-2	11	10 SS
SODANKYLA	29.93	5.0	6	6	-6					
KIRUNA	30.17	0.2	6	10	-4				7	3 PP
TROMSOE	31.98	359.2	6	25	-5					
SVERDLOVSK	32.83	41.2	6	33	-4					
QUETTA	39.24	86.8	7	29	-2					
LWIRO	40.57	166.6	7	42K	0					
KHEYS	45.29	8.2	8	19	-2					
THULE	53.34	342.9	9	20	-3					
BULAWAYO	58.10	170.6	9	54	-3					
HALIFAX	60.77	305.6	10	12	-4					
SHAWINIGAN	65.59	310.8	10	45	-2					
YAKUTSK	65.69	29.2	10	45	-3					
WESTON	66.78	306.3	10	54A	-1					
OTTAWA	67.95	310.9	11	1	-1					
MORGANTOWN	73.75	307.6	11	37	0					
SAN JUAN	76.10	282.5	11	50	-1					
COLLEGE	77.31	354.8	11	55	-3					
RAPID CITY	83.78	322.7	11	55	-37					
HUNGRY HORSE	85.11	331.3	12	34	-5					
WICHITA MTS.	88.19	313.7	12	51	-3				16	17 PP
FLAMING GRGE	89.13	324.2	12	54	-4					
EUREKA	93.24	327.5	13	15	-2					

JULY 20 9.H 2.M 44.S EPICENTRE 29.93 131.71 DEPTH= 44.KM

A=-0.57758 B= 0.64801 C= 0.49647 D= 0.7465 E= 0.6654
G=-0.3303 H= 0.3706 K=-0.8681 HT= 1.8

DEPTH OF FOCUS= 0.002R

SE= 2.52

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
YAKUSIMA	1.17	296.4	0	20	-1	0	36	0				
KAGOSIMA	1.91	328.8	0	32K	1	0	56	2				
MIIYAZAKI	2.00	352.9	0	34	2	1	1	5				
KUMAMOTO	3.00	343.5	0	49	2	1	21	-1				
ASOSAN	3.01	349.7	0	47	0	1	15	-7				
SIMIDU	3.03	20.5	0	46	-1	1	21	-2				
UNZENAKE	3.06	336.2	0	49K	2	1	28	5				
NAGASAKI	3.20	331.1	0	49A	0	1	30	3				
UWAZIMA	3.36	12.1	0	52	0	1	29	-2				
SAGA	3.52	340.3	0	53	-1	1	37	2				
TOMIE	3.68	317.5	0	55	-1							
HUKUOKA	3.81	343.0	0	59	1	1	43	1				
MUROTO	3.92	31.9	1	11	11	1	56	11				
KOTI	3.92	22.8	0	59	-1	1	41	-4				
MATUYAMA	4.00	12.9	1	0	-1	1	44	-3				
SIMONOSEKI	4.06	350.8	1	2	0							
HIROSIWA	4.46	7.7	1	7	0	1	55	-4				
TOKUSIMA	4.79	29.8	1	11	-1	2	8	1				
TAKAMATU	4.80	23.8	1	12	0	2	11	4				
SIOMISAKI	4.92	43.6	1	12	-2	2	18	8				

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1961

PAGE 680

OKAYAMA	5.09	21.0	1 16	0	2 11	-3	
SUMOTO	5.16	30.9	1 16A	-1	2 15	-1	3 5
MATSUE	5.62	11.4	1 8	-15			
ABUYAMA	5.90	32.5	1 26A	-1			
KYOTO	6.10	32.8	1 32	2	2 38	-2	
TOYOOKA	6.16	24.3	1 30	-1			
TU	6.26	39.3	1 34	2			
KAMEYAMA	6.34	38.1	1 34	0			3 43
HIKONE	6.55	34.6	1 37	0			
TSURUGA	6.78	31.6	1 40	0			
GIHU	6.92	36.7	1 41A	-1			
OMAESAKI	7.21	48.1	1 45	-1			
IIDA	7.59	41.2	1 50	-1			
MISIMA	8.00	47.9	1 45	-12			
AJIRO	8.06	48.8	1 55A	-2			2 40
OSIMA	8.08	51.4	1 58	0			
TOYAMA	8.16	32.8	1 59	0			
MATUMOTO	8.20	38.2	1 58	-1			
MERA	8.47	52.0	2 8	5			
MATUSIRO	8.54	37.8	2 2K	-2	3 36	-4	2 40
OIWAKE	8.57	40.2	2 5	0			
WAZIMA	8.59	28.8	2 5	0			
NAGANO	8.64	37.2	2 5	0			
TOKYO C.M.O.	8.86	47.6	2 12	3			3 9
MAEBASI	8.92	41.8	2 10	1			
KUMAGAYA	8.93	44.1	2 10	0			
ZO-SE	9.16	279.9	2 10A	-3	3 56	0	
KAKI OKA	9.48	46.3	2 16	-1			
MITO	9.75	46.5	2 20	-1			
NIIGATA	10.03	35.5	2 29	4			
SHIRAKAWA	10.08	42.5	2 24	-1			
ONAHAMA	10.38	45.2	2 27	-2			
HUKUSIMA	10.66	40.7	2 33	0			
YAMAGATA	10.95	38.5	2 37A	0			
SENDAI	11.27	40.0	2 41	-1			
NANKING	11.30	284.1	2 39A	-3	5 8	20	
AKITA	11.94	32.9	2 59	8			
CHANGCHUN	14.78	341.6	3 32	4	6 23	12	
PEKING	16.22	312.5	3 50	4	6 58	14	
CANTON	17.79	251.8	4 5	-1			
Y.-SAKHLINSK	19.08	23.6	4 19	-3	7 42	-7	
SIAN	19.77	288.5	4 27A	-2	8 19	15	
PAOTOW	20.60	306.9	4 37	-1	8 32	11	
CHENGTU	23.91	278.8	5 10	-1	9 25	4	
LANCHOW	24.12	292.0	5 12	-1	9 32	7	
KUNMING	26.10	266.4	5 29	-3	9 58	0	
ULAN-BATOR	26.19	320.2	5 31	-1			
PETROPVLOVK	30.33	32.8	6 8	-2			
YAKUTSK	32.12	358.2	6 25	-1			
LHASA	35.17	279.9	6 52	0			
LEMBANG	43.26	216.3	8 7A	8			8 33
ANDI JAN	48.77	299.7	8 43	0			
NAMANGAN	49.27	300.0	8 49	2			
WARSAK DAM	50.57	291.1	8 56	0			
TASHKENT	51.01	300.8	8 57	-3			
CHARTERS TS.	51.67	162.5	9 1	-4			
STALINABAD	51.84	297.4	9 5	-1			
SVERDLOVSK	55.29	320.8	9 31	-1			
QUETTA	55.33	287.8	9 32	0			
KHEYS	58.01	349.3	9 50	-1			
COLLEGE	59.32	29.3	9 59	-1			
APATI TY	65.77	335.4	10 42	-1			
TEHERAN	65.96	298.6	10 43	-1			
CANBERRA	66.92	164.7					10 48
MOSCOW	68.01	322.5	10 58	1	19 54	3	
SODANKYLA	68.26	336.3	10 58A	-1			
TIFLIS	68.64	306.6	11 4	3			
KAJAANI	69.29	332.9	11 4	-1			
TROMSOE	69.67	339.9	11 6	-1			
PULKOVO	70.03	328.1	11 9	0			
KIRUNA	70.14	337.9	11 10	0	20 22	5	
RESOLUTE	71.33	11.8	11 17	0			
NURMIJARVI	72.21	330.2	11 22A	0			
UMEA	72.30	334.3	11 23	0			
SKALSTUGAN	75.33	336.2	11 39	-2			
UPPSALA	75.54	331.6	11 41	-1	21 19	1	
LWOW	78.03	320.9	11 57	1			
KSARA	78.37	302.3	12 1	3			

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1961					PAGE 681
KARAPIRO	78.97	146.1	11 59	-2	
GOTEBORG	79.18	331.7	12 2A	0	
CORVALLIS	79.23	44.6	12 4	2	
JERUSALEM	79.83	300.7	12 7	1	
KRAKOW	80.10	322.6			12 7
RACIBORZ	80.99	323.3			12 13
SHASTA	81.85	47.6	12 19K	3	
HUNGRY HORSE	82.42	37.8	12 19	0	
MINERAL	82.55	47.6	12 19A	-1	
BRATISLAVA	82.71	322.2	12 23	2	12 33 PCP
PRUHONICE	82.92	324.6	12 23K	1	
VIENNA-H.	83.05	322.5	12 24	2	
HALLE	83.21	326.9	12 24	1	12 40
JENA	83.76	326.6	12 26	0	
KASPERSCHE H.	83.94	324.4	12 28A	1	13 20
RENO	84.14	47.5	12 27	-1	
BUTTE	84.63	39.1	12 31	1	
LJUBLJANA	85.41	321.6	12 35	1	
BOZEMAN	85.68	38.7	12 36	0	
STUTTGART	86.31	326.0	12 39	0	
EUREKA	86.60	45.8	12 31	-9	
STRASBOURG	87.17	326.5	13 3	20	
CHINA LAKE	87.71	49.5	12 45	0	
CHIAVARI	89.32	322.7			16 36
BOULDER CITY	89.42	48.1	12 53	-1	
FLAMING GRGE	89.65	41.6	12 55	0	
GARCHY	90.31	327.9	12 58	0	14 17
GLEN CANYON	90.86	45.7	12 56	-4	
RAPID CITY	90.89	36.1	13 1	1	
TUCSON	94.33	48.9	13 17	1	
TUCSON TELE.	94.35	48.8	13 18	2	
WICHITA MTS.	100.09	40.1	13 44	2	17 45 PP
HUANCAYO	149.24	60.4	19 46	6	

JULY 20 15.H 10.M 32.S EPICENTRE -17.83-179.10 DEPTH= 571.KM

A=-0.95244 B=-0.01491 C=-0.30437 D=-0.0157 E= 0.9999
G= 0.3043 H= 0.0048 K=-0.9526 HT= 5.2

DEPTH OF FOCUS= 0.085R

SE= 3.00

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
AFIAMALU	8.05	62.1	1	47K	-13	3	17	-18				
RAOUL ISLAND	11.42	174.8	2	31	-2	4	43	7				
ONERAHI	18.78	196.7	3	49	4							
KARAPIRO	20.57	192.1	4	2	0							
CHATEAU	21.79	191.3	4	11	-2							
HONIARA	21.99	289.6	4	14	-1							
BRISBANE	27.59	244.8	5	4	0						12	0
RIVERVIEW	31.01	233.3	5	35	2						7	49
CHARTERS TS.	32.80	260.4	5	48	-1						11	10
CANBERRA	33.22	232.1	5	54K	2							
PORT MORESBY	33.80	279.8	5	57	0							
MUNDARING	59.57	243.0	9	10A	-1							
SCOTT BASE	60.45	183.4	9	18K	1							
BYRD STATION	67.43	170.6	10	0	-1							
MATUSIRO	67.45	323.8	9	58K	-3						10	22
LEMBANG	72.05	268.5	10	29K	1							
SOUTH POLE	72.28	180.0	10	29	-1							
LICK	77.03	43.6	10	53A	-3							
ARCATA	77.55	39.5	11	17A	18							
PASADENA	77.66	47.9	10	55	-4						12	51
MINERAL	78.77	41.1	11	0A	-5							
RENO	79.45	42.6	11	5	-4							
EUREKA	81.93	44.2	11	18	-4							
TUCSON TELE.	82.24	52.6	11	21	-2				13	19		
MAWSON	83.71	199.9	11	30A	-1							
GLEN CANYON	83.71	48.1									13	27
ARGENTINE I.	83.82	157.4	11	29	-2							
COLLEGE	85.85	12.8	11	35	-6							
FLAMING GRGE	87.04	45.4	11	53	6							
HUNGRY HORSE	87.65	37.3	11	45	-4							
WICHITA MTS.	92.48	54.4	12	8	-4	21	50	-35			14	20

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1961

PAGE 683

STUTTGART	162.63	345.4	20	4	0		
GARCHY	164.84	359.1	20	6	0	20	37
BAGNERES	168.86	9.8	20	11	2		

JULY 21 4.H 32.M 20.S EPICENTRE 40.28 -29.70 DEPTH= 0.KM

A= 0.66452 B=-0.37911 C= 0.64397 D=-0.4955 E=-0.8686
G= 0.5593 H=-0.3191 K=-0.7651 HT= -1.8

SE= 2.76

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ANGRA DO HO.	2.51	129.5	0	45	2	1	26	11				
PONTA DELGDA	4.04	127.8	1	1A	-4	1	52	-1				
COIMBRA	16.25	83.4	3	47	-4							
TOLEDO	19.62	82.8	4	32	-1							
GRANADA	20.58	90.2	4	52K	9	8	41	12			5	5 PP
ALMERIA	21.54	90.4	4	55	2						5	11 PP
BAGNERES	22.42	73.0	5	4	2							
ALICANTE	22.65	85.4	5	5	1							
PARIS	24.33	58.7	5	17	-3							
CLERMONT-FD.	24.51	66.2	5	23	1							
GARCHY	24.55	62.5	5	22	0						5	42
HALIFAX	25.27	291.1	5	29	0							
JENA	30.41	55.6	6	14	-2							
PRUHONICE	32.27	57.5	6	32	-1							
PALISADES	33.28	285.9									11	58
ISTANBUL UN.	43.79	69.1	8	9	0							
KSARA	51.68	75.1	9	12	1							
RAPID CITY	52.91	300.0	10	19	59							
WICHITA MTS.	53.69	287.5	9	24	-2							
HUNGRY HORSE	57.98	308.5	9	55	-2							
GLEN CANYON	61.83	295.9	10	23	0							
EUREKA	63.49	300.3	10	33	-1							
TUCSON TELE.	63.64	291.1	10	36	1							
TUCSON	63.77	291.0	10	36	0							
COLLEGE	64.64	335.4	10	47	5							
CHINA LAKE	66.54	297.7	10	53	-1							
BROKEN HILL	76.63	122.2									17	5
BULAWAYO	80.96	125.9									19	55

JULY 21 18.H 50.M 58.S EPICENTRE 30.04 131.48 DEPTH= 48.KM

A=-0.57438 B= 0.64964 C= 0.49805 D= 0.7492 E= 0.6624
G=-0.3299 H= 0.3731 K=-0.8671 HT= 1.8

DEPTH OF FOCUS= 0.002R

SE= 2.90

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
YAKUSIMA	0.94	296.0				0	22	-9				
KAGOSIMA	1.72	332.5	0	22	-7	0	50	0				
MIYAZAKI	1.88	358.4	0	23	-8	0	56	2				
KUMAMOTO	2.85	346.7	0	19	-26	0	53	-25				
ASOSAN	2.87	353.1	0	12	-33	0	47	-32				
UNZENDAKE	2.88	338.9	1	4	19						3	42
NAGASAKI	3.01	333.4	0	47K	0	1	26	4				
SIMIDU	3.01	24.6	0	42	-5	1	15	-7				
OOITA	3.18	2.1	0	49K	0	1	23	-3				
UWAZIMA	3.31	15.7	0	51	0	1	25	-5				
SAGA	3.36	342.8	0	53	1	1	24	-7				
HUKUOKA	3.65	345.4	0	58	2							
KOTI	3.91	26.0	0	57	-2	1	40	-5				
MATUYAMA	3.95	15.9	0	59	-1	1	42	-4				
HIROSIMA	4.39	10.3	1	5	-1	1	53	-4				
TAKAMATU	4.79	26.4	1	8	-4	1	59	-8				
SIOMISAKI	4.99	45.9	1	24	9						4	17
SUMOTO	5.18	33.2	1	13	-4						2	41
MATSUE	5.56	13.5	1	29	6							
KOBE	5.59	33.1				2	24	-3				
OWASE	5.67	43.7	1	16	-8	2	15	-14				
OSAKA	5.73	35.6	1	32	7						4	17

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1961

PAGE 684

TOTTORI	5.91	21.9	1 26	-1			
KYOTO	6.13	34.7	1 28	-2	2 37	-3	
TOYOOKA	6.16	26.3	1 28	-3			
KAMEYAMA	6.39	40.0	1 38	4			4 37
HIKONE	6.59	36.4	1 35	-2			
TSURUGA	6.80	33.4	1 38	-2			
GIHU	6.96	38.4	1 40	-2			
OMAESAKI	7.29	49.7	2 12	25			
IIDA	7.64	42.7	1 48	-4			
OSIMA	8.17	52.7	1 55	-4			
KOHU	8.18	44.8	1 56	-3			
TOYAMA	8.18	34.2	2 8	9			
HUNATU	8.20	46.5	1 55	-4			
MATUMOTO	8.24	39.6	1 58	-2			
MATUSIRO	8.59	39.2	2 1A	-4	3 33	-8	2 26
WAZIMA	8.60	30.2	2 4	-1			
OI WAKE	8.63	41.5	2 13	8			
NAGANO	8.68	38.6	1 50	-16			
TOKYO C.M.O.	8.94	48.9	2 22	12			
ZO-SE	8.94	279.4	2 9K	-1	3 57	7	
MAEBASI	8.98	43.1	2 10	0			
KUMAGAYA	9.00	45.3	2 8	-2	4 56	65	
KAKIOKA	9.55	47.5	2 15	-3			
UTUNOMIYA	9.56	45.0	2 19	1			
MITO	9.83	47.6	2 19	-3			
NIIGATA	10.06	36.6	2 22	-3			
HUKUSIMA	10.72	41.8	2 38	4			
NANKING	11.08	283.7	2 38	-1	4 43	1	
SENDAI	11.32	41.0	2 39	-3			
AKITA	11.97	33.9					3 6
VLADIVOSTOK	13.06	1.4	3 5	0			
MORI	14.09	28.9					3 21
CHANGCHUN	14.62	342.0	3 31K	5	6 19	12	
PEKING	16.00	312.6	3 47K	4	6 57	18	
HONG KONG	17.33	247.7	4 0	0	7 42	32	
CANTON	17.63	251.2	4 4A	0	7 30	14	
MANILA	18.05	214.3	4 8	-1	6 39	-47	
Y.-SAKHLINSK	19.06	24.1	4 19	-2			
SIAN	19.55	288.2	4 27A	0			
PAOTOW	20.37	306.9	4 35	0	8 26	10	
GUAM	20.55	140.5	4 30	-7			
UGLEGORSK	20.66	20.0	4 38	0			
CHENG TU	23.70	278.5	5 8	0	9 25	8	
LANCHOW	23.90	291.8	5 10	0			
KUNMING	25.91	266.1	5 30	-1	10 3	9	
ULAN-BATOR	25.98	320.3	5 28	-2			
PE TROPAYLOVK	30.35	33.1	6 9	-1			
YAKUTSK	32.01	358.4	6 23	-1			
MAGADAN	32.28	18.4	6 26	-1			
LHASA	34.95	279.7	6 49	-1			
RABAU	39.39	146.3	7 22	-5			
PORT MORESBY	42.01	156.5			13 59	-5	9 24
LEMBANG	43.23	215.9	7 56K	-2	14 7	-14	
DEHRA DUN	45.82	284.5					10 38
FRUNSE	46.68	302.1	8 26	0			
WARSAK DAM	50.34	291.0	8 55	1			
TASHKENT	50.79	300.7	8 57	-1			
STALINABAD	51.62	297.3	9 6	2	16 5	-15	
CHARTERS TS.	51.83	162.2	9 1	-5			
SVERDLOVSK	55.08	320.7	9 30	0			
QUETTA	55.11	287.6	9 29	-1			11 36 PP
KHEYS	57.87	349.3	9 44	-5			
COLLEGE	59.32	29.3	9 57	-3			
BRISBANE	60.63	158.2	10 6	-2			13 0
APATITY	65.59	335.3	10 40	-1	19 25	4	
TEHERAN	65.73	298.5	10 39	-3			
MAKHACH-KALA	66.11	307.0	10 45	0			
RIVERVIEW	66.19	162.2					12 9
SHIRAZ	67.07	291.9	10 50	-1			17 47
CANBERRA	67.07	164.5	10 48A	-3			
MOSCOW	67.81	322.4	10 54	-1	19 54	6	
SODANKYLA	68.08	336.2	10 56A	-1			
GORIS	68.15	303.8	10 57	0			
KAJAANI	69.11	332.8	11 0	-3			
TROMSOE	69.51	339.8	11 4	-2			
PULKOVO	69.84	328.1	11 8	0			
KIRUNA	69.97	337.9	11 7	-1	20 22	8	
SOTCHI	71.17	309.9	11 15	-1			

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1961

PAGE 685

RESOLUTE	71.27	11.7	11 15	-1			
NURMI JARVI	72.02	330.1	11 21K	0			
UMEA	72.12	334.3	11 18A	-3			
SIMFEROPOL	74.23	313.0	11 34	0	21 10	8	
SKALSTUGAN	75.16	336.2	11 39	0			
UPPSALA	75.35	331.5	11 39	-1			
KI SHI NEV	76.51	316.6	11 46	-1			
LWOW	77.82	320.8	11 55	1	21 48	6	
KSARA	78.14	302.2	11 58	2			
GOTEBORG	79.00	331.6	11 59	-2			
ISTANBUL UN.	79.40	311.3	12 3	0			
JERUSALEM	79.60	300.6	12 5K	1			
KRAKOW	79.90	322.5	12 5	0			12 15 PCP
COPENHAGEN	80.09	329.8	12 6	0			
SKALNATE PL.	80.23	321.6	12 12	5			
CHORZOW	80.25	323.0	12 8	1			12 17 PCP
RACIBORZ	80.79	323.2	12 11	1			12 15 PCP
SOFIA	82.10	315.0	12 42	25			
HUNGRY HORSE	82.46	37.8	12 19	0			
BRATISLAVA	82.51	322.1	12 20	1			12 26 PCP
BELGRADE	82.62	317.9	12 21A	1			13 33
COLLMBERG	82.64	326.2	12 20K	0			12 24 PCP
PRUHONICE	82.72	324.5	12 21K	1			
PRAGUE	82.72	324.7	12 22	2			14 19
VIENNA-H.	82.85	322.4	12 23K	2			
HALLE	83.02	326.8	12 22	0	22 40	4	
HELWAN	83.45	300.6	12 25	1			
JENA	83.56	326.5	12 23	-1	22 47	6	
KASPERSKE H.	83.74	324.3	12 26K	1			14 57
RENO	84.22	47.4	12 27	-1			
BUTTE	84.67	39.0	12 29	-1			
MUNSTER	84.70	328.9	12 32	2			
LJUBLJANA	85.21	321.5	12 33	0			
BENSBERG	85.60	328.4	12 35	0			13 30
BOZEMAN	85.72	38.6	12 35	0			
TRIESTE	85.87	321.5	12 36	0	23 14	10	
HEIDELBERG	85.96	326.6	12 36	0			
STUTTGART	86.12	325.9	12 37	0			
EUREKA	86.67	45.7	12 40	0			
STRASBOURG	86.98	326.4	12 42	1			
CHINA LAKE	87.79	49.4	12 45	0			
FLORENCE X.	88.44	321.2	12 55	7			
BESANCON	88.77	326.3	12 49	-1			
ROME	89.00	319.2	13 13	22			
PARIS	89.25	329.1	12 57	5			
FLAMING GRGE	89.70	41.4	12 53	-1			
GARCHY	90.12	327.8	12 56	0			13 6 PCP
FOLINIERE	90.58	330.5	12 59	1			
RAPID CITY	90.92	36.0	13 0	0			
SCOTT BASE	109.68	172.5	18 54	777			
HUANCAYO	149.36	60.0	19 45	6			

JULY 21 22.H 39.M 51.S EPICENTRE 29.75 131.78 DEPTH= 0.KM

A=-0.57948 B= 0.64847 C= 0.49365 D= 0.7457 E= 0.6663
G=-0.3289 H= 0.3681 K=-0.8697 HT= 1.9

SE= 2.31

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S		
ABUYAMA	6.03	31.1	1	33A	0							
MATUSIRO	8.65	36.8	2	9K	-1						3 41	
ZO-SE	9.26	281.0	2	18A	0	4	8	4				
NANKING	11.41	284.9	2	47	1	5	0	3				
MI ZUSAWA	12.12	37.0	3	0	3							
VLADIVOSTOK	13.35	0.4	3	14	0							
CHANGCHUN	14.97	341.6	3	40	5	6	35	12				
PEKING	16.39	312.9	3	57A	4	7	7	11				
HONG KONG	17.47	249.0	4	8	1	7	23	2				
CANTON	17.79	252.5	4	11	0							
Y.-SAKHLINSK	19.22	23.2	4	25	-4							
SIAN	19.89	288.9	4	34A	-2	8	11	-4				
GUAM	20.16	140.7	4	40	1							
PAOTOW	20.76	307.2	4	43	-2	8	33	0				
UGLEGORSK	20.84	19.3	4	47A	1							

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1961		PAGE 686									
CHENG TU	24.00	279.2	5	16	-2	9	35	3			
KUNMING	26.15	266.9	5	38	0	10	12	3			
ULAN-BATOR	26.37	320.4	5	39	-1						
PETROPAYLOVK	30.45	32.6	6	17	0						
YAKUTSK	32.31	358.2	6	31	-2	11	42	-5			
LHASA	35.26	280.2	6	59	0						
SHILLONG	35.48	273.1	6	57A	-4						
DEHRA DUN	46.15	284.8							24	0	
FRUNSE	47.06	302.4	8	35A	-1						
LAHORE	48.97	287.4	8	47	-3						
NAMANGAN	49.42	300.2	8	55	1						
WARSAK DAM	50.69	291.3	9	9	5						
TASHKENT	51.16	300.9	9	6	-1	16	30	5			
CHARTERS TS.	51.47	162.5	9	9	-1						
QUETTA	55.45	287.9	9	42	3						
SVERDLOVSK	55.47	320.8	9	38	-1						
COLLEGE	59.45	29.3	10	7	0				12	26	PP
BRISBANE	60.26	158.5	10	14	1						
APATITY	65.97	335.4	10	49	-2	19	35	-3			
SHIRAZ	67.42	292.1	11	0	0						
MOSCOW	68.20	322.6	10	47	-18						
SODANKYLA	68.46	336.3	11	5	-1						
TIFLIS	68.81	306.7	11	15	6						
KAJAANI	69.48	332.9	11	11	-2						
TROMSOE	69.87	339.9	11	13	-2						
KIRUNA	70.33	338.0	11	16K	-2	20	30	0			
RESOLUTE	71.50	11.8	11	24	-1						
SOTCHI	71.56	310.0	11	28	3						
UMEA	72.50	334.4	11	28	-3						
SKALSTUGAN	75.53	336.3	11	46	-2						
UPPSALA	75.73	331.6	11	48	-2						
KISHINEV	76.90	316.8	11	59	3	21	41	-3			
LWOW	78.21	320.9	12	4	1						
KSARA	78.52	302.3	12	7	2						
GOTEBORG	79.38	331.7	12	8	-2						
ISTANBUL UN.	79.79	311.5	12	11	-1						
COPENHAGEN	80.47	330.0				22	15	-7			
ARCATA	80.75	48.2	12	7	-10						
RACIBORZ	81.18	323.3	12	20	1				12	24	PCP
SHASTA	81.93	47.6	12	23	0						
HUNGRY HORSE	82.53	37.9	12	29	3						
BRATISLAVA	82.90	322.2	12	32	4				12	34	PCP
COLLMBERG	83.03	326.3	12	29K	0				12	34	PCP
PRUHONICE	83.10	324.7	12	30K	1						
HALLE	83.40	326.9	12	31	0	22	52	0			
HELWAN	83.83	300.8	12	34	1				13	4	
JENA	83.95	326.6	12	33	-1						
KASPERSKE H.	84.13	324.4	12	35K	0						
RENO	84.22	47.5	12	36	1						
BUTTE	84.73	39.1	12	38	0						
ATHENS	84.88	311.0	12	36	-2						
MUNSTER	85.08	329.1	12	39	0						
LJUBLJANA	85.60	321.6	12	43	1						
BENSBERG	85.99	328.5	12	43	-1						
TRIESTE	86.27	321.7	12	46	1	23	21	1			
STUTTGART	86.50	326.0	12	46	0						
EUREKA	86.69	45.9	12	48	1						
STRASBOURG	87.36	326.6							23	21	
CHINA LAKE	87.78	49.6	12	53	0						
FLAMING GRGE	89.74	41.6	13	2	0						
GARCHY	90.50	327.9	13	5	0						
RAPID CITY	91.00	36.2	13	8	0						
PALISADES	105.69	19.9							23	19	
SOUTH POLE	119.58	180.0	18	52	0						
BYRD STATION	122.32	168.7	18	58	0						

JULY 22 18.H 12.M 24.S EPICENTRE -54.20 140.48 DEPTH= 0.KM
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 G= 0.6242 H=-0.5150 K=-0.5875 HT= -6.9

SE= 1.77

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S S	O-C S	*PP M S	SUPP. M S
FORT NELSON	12.16	24.7	2	57A	0			

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1961

PAGE 687

MOORLANDS	12.58	23.4	3	3K	0					
MELBOURNE	16.66	12.5	3	54	-2	7	6	4		
WILKES	18.95	218.4	4	24	-1	8	1	7		
CANBERRA	19.80	21.0	4	33	-2	8	15	3		
RIVERVIEW	21.72	24.6	4	59	5	9	2	11		
CAPE HALLETT	22.12	156.2	4	57	-1	9	10	12	5	30 PP
SCOTT BASE	25.52	167.4	5	31	-1				10	13
BRISBANE	28.27	23.6	5	57	0	10	40	-2		
PERTH	28.35	311.7							12	35
CHARTERS TS.	34.34	9.7	6	48	-2	12	16	-2		
SOUTH POLE	35.98	180.0	7	4	0					
MAWSON	37.27	218.2	7	15A	0				7	32
PORT MORESBY	45.00	9.3	8	17	-2	14	58	0		
LEMBANG	54.15	318.3	9	28A	-1				18	24 SS
BULAWAYO	85.91	241.0	12	44	1					
SHILLONG	89.80	317.3	12	59K	-3					
MATUSIRO	90.39	358.2	13	2	-2	24	2	4		
EUREKA	128.24	73.3	19	8	0				36	36
WICHITA MTS.	135.04	90.8	19	27	6				22	54 SK
BRATISLAVA	144.84	283.9	19	36	-3					
LJUBLJANA	145.18	279.1	19	39	0					
RACIBORZ	145.19	287.4	19	38	-1					
TRIESTE	145.41	278.0	19	40	0					
NURMI JARVI	146.08	307.0	19	44	3					
SODANKYLA	146.94	319.5	19	46	4					
CHAPEL HILL	147.19	107.6	19	45	2					
PRUHONICE	147.20	285.2	19	46	3					
KASPERSCHE H.	147.34	283.3	19	46A	3				20	48
COLLMBERG	148.68	286.6	19	50A	5				19	56 PKP2
JENA	149.32	285.2	19	51	5				21	48
KIRUNA	149.35	319.9	19	55	9					
HALLE	149.36	286.4	19	56	10					
STUTTGART	149.63	280.0	19	51	4					
BAGNERES	151.88	263.1	20	8	18					
TOLEDO	152.25	253.5	20	0	9					
SKALSTUGAN	152.41	310.6	20	3	12					
GARCHY	152.52	273.1	19	59	8					

JULY 23 14.H 3.M 40.S EPICENTRE -18.53 168.08 DEPTH= 28.KM

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G= 0.3091 H=-0.0652 K=-0.9488 HT= 5.0

SE= 2.65

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PORT VILA	0.83	16.0	0	15K	-1							
NOUMEA	4.05	201.9	0	59K	-3	1	46	-3				
KOUMAC	4.11	240.0	1	1	-2							
SUVA	9.84	89.4	2	35	12	4	35	22				
HONIARA	12.00	317.8	2	52	0						4	22
BRISBANE	16.61	235.2	3	50	-2	7	3	8				
ONERAHI	18.05	163.3	4	12	2							
AUCKLAND	19.20	163.4	4	20	-4	8	5	11				
AFIAMALU	19.87	79.6	4	33	1	8	44	35				
KARAPIRO	20.40	162.9	4	36	-1							
CHARTERS TS.	20.65	262.1	3	48	-52	8	33	9				
RABAUL	21.09	310.6	4	50	6							
RIVERVIEW	21.47	221.5	4	45K	-3				4	55	9	14 SS
CHATEAU	21.59	164.1	4	52	2							
TUAI	21.68	160.5	4	53	3							
PORT MORESBY	22.22	291.3	4	57	1	9	4	10			5	29
WELLINGTON	23.39	167.2	5	8	1	9	20	5				
CANBERRA	23.78	221.5	5	13	2	9	32	10	5	24	8	46 PCP
GEBBIES PASS	25.39	172.3	5	28	1							
MOORLANDS	29.71	212.2	6	13	7							
DARWIN	36.37	274.2	7	4	0	12	43	0				
MUNDARING	48.37	243.4	8	43K	2							
PERTH	48.69	243.5	8	55	11	15	50	7			10	50 PP
HONOLULU	51.61	41.5	9	7	1	16	44	20				
CAPE HALLETT	53.80	179.2	9	21	-1	16	55	1			10	44 PCP
MANILA	56.85	302.3	10	10	25	17	57	23				
BAGUIO CITY	58.23	303.7	9	54	0	17	56	3				
SCOTT BASE	59.36	180.3	10	0	-2						11	38 PP
LEMBANG	59.88	272.8	10	7	1	18	17	3				
WILKES	60.37	203.1	9	48	-21	18	24	4				

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1961					PAGE 689
KRAKOW	139.56	328.4	19 34	9	22 27
RACIBORZ	140.38	329.5	19 28	1	22 27
ABERDEEN	140.73	351.6	19 35	8	23 10 SKP
SOFIA	141.69	316.7	19 29	0	23 7
HALLE	142.08	335.7	19 29	-1	22 33 PP
PRAGUE	142.13	332.2			19 59
PRUHONICE	142.14	332.0	19 32	2	22 52 PP
BRATISLAVA	142.19	328.0	19 31	1	22 48 PKS
VIENNA-H.	142.50	328.6	19 31	1	
JENA	142.67	335.4	19 27	-4	22 31 PP
KASPERSKE H.	143.20	331.8	19 31	-1	
MUNSTER	143.26	339.8	19 31	-1	
DE BILT	143.90	342.1	19 38	5	
LJUBLJANA	144.92	327.3	19 34A	-1	22 55 PP
HEIDELBERG	145.01	336.3	19 34	-1	
STUTTGART	145.30	335.2	19 36	1	41 55 SS
KARLSRUHE	145.44	336.2	19 39	4	
TUBINGEN	145.57	335.1	19 36	0	
TRIESTE	145.59	327.5	19 37	1	23 6 PP
KEW	145.87	347.0	19 37	1	
EBINGEN	145.89	334.8	19 36	0	
RAVENSBURG	145.94	333.8	19 37	1	
STRASBOURG	146.04	336.4	19 38A	2	22 57 PP
PADOVA	146.70	328.8	19 51	13	21 20
CHUR	146.70	332.8	19 43	5	
BASLE	146.97	335.5	19 40A	2	
BANGUI	147.01	248.5	19 42	4	19 55
PARIS	147.62	342.1	19 44	5	
NEUCHATEL	147.65	335.6	19 42	3	
PAVIA	148.15	331.2	19 53	13	23 10
FLORENCE X.	148.17	327.3	19 49	9	23 27 PKS
FOLINIERE	148.44	345.5	19 45	5	
ROME	148.78	323.5	19 45	4	23 14 PKS
GARCHY	148.80	340.1	19 46	5	23 17 PP
MESSINA	149.07	315.0	19 46	5	
ISOLA	149.88	332.2	19 44	1	
MONACO	150.06	331.2	19 49	6	
CLERMONT-FD.	150.11	338.6	19 50	7	20 6 PKP2
BAGNERES	153.49	339.9	19 48	0	23 41 PP
TORTOSA	155.36	337.0	19 59	9	25 32
TOLEDO	157.66	343.9	19 55	2	23 0 PP
ALICANTE	157.87	335.5	19 58	4	27 3 8 24 12 PP
COIMBRA	158.19	352.8	19 54	0	24 4 PP
ALMERIA	159.94	337.4	19 57K	1	24 27 PP
GRANADA	160.03	340.2	19 55K	-1	24 24 PP
MBOUR	173.64	129.7	20 8	1	21 32 PKP2

JULY 23 14.H 38.M 18.S EPICENTRE 7.00-123.60 DEPTH= 213.KM

A=-0.54938 B=-0.82675 C= 0.12109 D=-0.8329 E= 0.5535
G=-0.0670 H=-0.1009 K=-0.9926 HT= 6.9

DEPTH OF FOCUS= 0.028R

SE= 2.92

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S		
MANZANILLO	22.24	55.6				8	52	27			6	20
MAZATLAN	23.08	44.0				9	12	33			14	26
GUADALAJARA	23.89	53.3									12	10
TACUBAYA	26.72	60.2	5	28	7	9	50	11				
CHIHUAHUA	27.15	35.5	5	40	15	10	26	40				
PASADENA	27.48	9.8	5	28	0	10	16	24			8	41 PCP
TUCSON	27.80	23.7	5	29	-2	10	14	17				
TUCSON TELE.	27.92	23.8	5	31	-1							
OAXACA	28.03	66.8									11	18
VERA CRUZ	29.32	62.9	5	50	5	10	46	25			7	2 PPP
FRESNO	29.83	6.1	5	47	-2							
LICK	30.25	3.1	5	52K	-1							
BERKELEY	30.75	2.1	5	58	1	11	1	18			12	33
GLEN CANYON	31.78	18.5	6	5	-1	8	54-125				7	21 PP
UKIAH	31.99	0.6	6	6	-2							
COMITAN	32.13	70.6	6	25	16						16	22
RENO	32.57	5.5	6	13K	0							
EUREKA	33.06	10.9	6	47	30	12	5	46			9	0 PP
HAWAII V.OB.	33.14	295.0	6	15	-3							

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1961										PAGE 690	
MINERAL	33.25	2.8	6 19A	0							
SHASTA	33.57	1.7	6 20	-1							
SALT LAKE C.	35.23	15.6	6 35	0							
WICHITA MTS.	35.94	36.4	6 38	-3	12 19	16			8 4	PP	
KIPAPA	36.20	296.9	6 42	-2							
HONOLULU	36.23	296.7	6 48	4	12 20	12					
CORVALLIS	37.43	0.4	6 54	0							
LARAMIE	37.75	22.4	6 55	-2							
FAYETTEVILLE	39.52	38.7	7 10A	-1	13 16	19	7 20		9 11	PP	
BUTTE	40.03	12.0	7 15	0					16 24	SCS	
BOZEMAN	40.03	13.7	7 15	0	13 30	25					
RAPID CITY	41.02	22.5	7 22	-2							
VICTORIA	41.37	0.2	7 25	-1							
HUNGRY HORSE	42.00	9.5	7 28	-4							
BANFF	44.53	7.2	7 53	1							
COLUMBIA	47.57	49.6	8 15	-1	15 12	19			10 12	PP	
CHINCHINA	47.75	89.6	8 14A	-3	15 14	18			10 11	PP	
GALERAZAMBA	47.86	81.8			15 45	48					
BOGOTA	49.32	89.9	8 29A	0	15 39	21	8 55				
FUQUENE	49.59	88.8	8 32K	1	15 49	28			10 24	PP	
CLEVELAND	50.69	40.6	8 39	0	15 55	18					
SITKA	50.76	351.8	8 39	-1	15 58	20					
MORGANTOWN	50.83	43.4	8 38K	-2	15 56	17					
HUANCAYO	51.60	111.3	8 44	-2	16 9	20					
AFIAMALU	52.13	246.4	8 48	-2							
WASHINGTON	52.51	45.5	9 3	10	16 3	2					
PENNSYLVANIA	52.79	43.1	8 53	-2	16 25	20					
PALISADES	55.59	44.4	9 15K	0	17 4	21			12 45	PPP	
CARACAS	56.06	82.1	9 14	-5	17 10	21					
OTTAWA	56.29	38.9	9 17	-3							
AREQUIPA	56.58	114.9	9 22	0							
SAN JUAN	57.00	72.7	9 16	-9							
BREBEUF	57.66	39.6	9 28	-2							
WESTON	57.91	43.8	9 29A	-3	17 30	17					
SHAWINIGAN	58.65	38.8	9 34	-1							
LAPAZ	59.63	113.6	9 43	-1	17 59	26					
COLLEGE	60.26	348.4	9 44	-4	18 3	20			12 21	PP	
ANTIGUA	61.02	74.4	10 2	9							
GRENADA	61.13	80.1	9 50	-3							
TRINIDAD	61.49	81.7	9 53	-3							
ST. VINCENT	61.55	78.9	9 53	-3							
HALIFAX	63.95	43.5	10 11	-1							
SANTIAGO	64.30	132.2	10 12	-2							
RESOLUTE	69.62	7.8	10 45	-3							
KARAPIRO	72.05	226.6	10 59	-3							
CHATEAU	72.58	225.3	11 4	-1							
THULE	75.45	11.6	11 26	4							
PETROPAVLOVK	77.07	322.7	11 30	-1							
MAGADAN	81.78	329.1	11 56	0	22 7	18			37 21		
ARGENTINE I.	84.07	158.6	12 7	-1							
RABAU	84.79	265.1	12 12	1							
BYRD STATION	86.93	179.3	12 20	-2							
Y.-SAKHLINSK	87.43	316.9	12 24	0							
BRISBANE	87.55	242.2	12 26	1							
UGLEGORSK	87.59	319.0	12 27	2							
CAPE HALLETT	89.58	196.2	12 33	-1	23 16	12					
RIVERVIEW	89.92	236.1	12 38	2							
PORT MORESBY	90.39	260.6	12 41	3							
YAKUTSK	91.58	333.1	12 43	0							
CANBERRA	91.88	234.8	12 47	2							
MATUSIRO	92.41	307.1	12 46	-1							
KHEYS	92.48	359.7	12 48	0	23 59	29					
CHARTERS TS.	92.50	250.2	12 49	1							
SCOTT BASE	92.59	191.5	12 47	-1							
VLADIVOSTOK	95.71	314.6	13 2	0							
SOUTH POLE	96.95	180.0	13 7	-1							
KIRUNA	101.12	13.1	13 26	-1					17 37	PP	
SODANKYLA	102.82	11.4	13 35	1					17 52	PKP	
COPENHAGEN	107.76	24.4							18 27	PP	
NURMIJARVI	108.21	15.9	18 14	777							
GARCHY	108.36	35.1	18 17	777							
BAGNERES	108.77	40.1	18 34	777							
GRANADA	108.88	47.0							18 38	PP	
STUTTGART	110.86	31.3	18 11	4					18 41		
KASPERSKE H.	112.77	29.0	18 15	4					19 0	PP	
MOSCOW	115.58	11.6							19 3	PP	
SVERDLOVSK	116.30	357.4	18 20	2							
MAWSON	119.33	182.8	18 25	1					19 45	PP	

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1961

PAGE 691

KISHINEV	120.91	21.7				19 56 PP
SIMFEROPOL	124.54	19.1	18 36	2		
ISTANBUL UN.	125.97	25.5	18 39	3		20 33
LEMBANG	129.17	266.9	18 44	1		
TIFLIS	130.37	11.4	18 49	4		
SHILLONG	132.70	314.5	18 38	-11		
STALINABAD	133.22	346.7	18 55	5		
KSARA	134.98	24.4	18 46	-8		21 27 PP
HELWAN	136.14	32.1	19 OK	4		21 40 PP
JERUSALEM	136.46	26.5	19 10K	14		21 43 PP
WINDHOEK	139.14	116.5	18 55	-6		
BANGUI	140.64	74.4	18 58	-6		
QUETTA	141.67	345.2	19 3	-3		22 3 PP
KIMBERLEY	143.15	129.9	19 7	-1		
SHIRAZ	143.37	5.7	19 7	-2		22 18 PP
PIETERMZBURG	146.77	135.9	19 13	-2		
PRETORIA	147.26	128.0	19 24	9		
POONA	149.34	326.1	19 27	9		
BULAWAYO	150.06	118.6	19 22	2		
BROKEN HILL	151.60	107.4	19 24	2		
TANANARIVE	165.36	144.8	19 43A	5		

JULY 23 15.H 30.M 23.S EPICENTRE -18.51 168.29 DEPTH= 79.KM

A=-0.92915 B= 0.19254 C=-0.31560 D= 0.2029 E= 0.9792
G= 0.3090 H=-0.0640 K=-0.9489 HT= 5.0

DEPTH OF FOCUS= 0.007R

SE= 2.61

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
BRISBANE	16.78	235.4	3	45	-6	6	51	-3				
ONERAHI	18.01	163.8	4	8	2							
AFIAMALU	19.67	79.5	4	24	-1	8	21	24				
KARAPIRO	20.36	163.3	4	31	-1							
CHARTERS TS.	20.85	262.1	4	35	-2	8	30	10				
RABAUL	21.23	310.1	4	40	-1							
CHATEAU	21.55	164.5	4	44	0							
RIVERVIEW	21.62	221.8	4	48	3						8 46 *SS	
TUAI	21.63	161.0	4	45	0							
PORT MORESBY	22.41	291.0	4	52	0							
WELLINGTON	23.36	167.6	5	4	2	9	15	10				
CANBERRA	23.93	221.8	5	8A	1	9	28	13				
GEBBIES PASS	25.38	172.6	5	18	-3							
ROXBURGH	26.90	178.4				10	13	9				
MOORLANDS	29.83	212.4	6	11	9				6 35			
MUNDARING	48.56	243.4	8	36K	-1							
PERTH	48.88	243.5									10 11	
MANILA	57.02	302.1	9	58	18	17	51	25				
SCOTT BASE	59.38	180.4	9	55K	-1						10 44 PCP	
LEMBANG	60.08	272.7	10	OK	-1	18	9	3				
TUKUBASAN	60.62	334.0				18	17	4			25 11 SSS	
MATUSIRO	61.69	332.7	10	10K	-2	18	31	4				
ZO-SE	66.94	316.9	10	45	-1	19	35	4				
MIRNY	67.32	204.8	10	47	-1						19 41	
CANTON	67.75	305.5	10	52	1	19	49	8				
BYRD STATION	68.81	169.7	10	56	-2							
NANKING	69.12	316.3	11	1	2	20	4	7				
Y.-SAKHLINSK	69.12	341.6	10	58	-1	20	8	11				
VLADIVOSTOK	69.86	332.4	11	12	8							
UGLEGORSK	71.22	342.1	11	6	-6							
PETROPAVLOVK	71.72	353.9	11	13	-2							
CHANGCHUN	73.47	329.0	11	25	0							
PEKING	75.81	321.3	11	39	0	21	22	9				
SIAN	77.08	313.0	11	46	0	21	37	10				
MAWSON	78.76	202.1	11	55	0	21	59	14			12 5 PCP	
CHENG TU	78.77	307.7	11	55	0	21	52	7				
MAGADAN	79.09	351.0	11	56	-1							
PAOTOW	79.88	318.9	12	2	1							
LANCHOW	81.57	312.3	12	10	0							
ULAN-BATOR	85.87	323.7	12	32	0							
YAKUTSK	85.89	342.9	12	30	-2							
BERKELEY	85.94	48.0	12	33	1	23	18	20			2 24	
VINEYARD	86.07	49.3	12	34	1							
LICK	86.15	48.7	12	35K	2							

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1961					PAGE 692	
SHASTA	87.15	45.4	12 39	1		
FRESNO	87.22	49.8	12 40	2		
PASADENA	87.33	52.8	12 36	-3		13 56
MINERAL	87.52	46.0	12 40K	0		
RENO	88.40	47.3	12 45	1		
LHASA	88.45	301.9	12 46	2	23 31 10	23 12 SKS
COLLEGE	89.62	17.2	12 49	-1		16 29 PP
VICTORIA	90.13	38.1	12 49	-3		
CHATRA	90.62	298.0	12 55K	0		
EUREKA	91.08	48.6	12 57	0		
TUCSON	92.30	56.9	13 4	2		
TUCSON TELE.	92.42	56.8	13 5	2		
FLAMING GRGE	96.31	49.1	13 20	-1		
WICHI TA MTS.	102.79	57.5	13 50	0		18 9 PP
SHIRAZ	120.96	293.9	18 44	1		
SHAWINIGAN	123.04	46.1	18 47	0		
BULAWAYO	124.87	227.8	18 54	3		
SODANKYLA	125.38	342.9	18 51	-1		
TROMSOE	125.56	347.3	18 52	0		
KIRUNA	126.65	345.4	18 54	0		
MOSCOW	127.59	327.2	18 55	-1		
BROKEN HILL	128.62	233.1	19 0	2		
UMEA	129.79	342.2	19 1	1		22 22 PKS
SOTCHI	130.30	311.8	19 5	4		
NURMI JARVI	130.72	337.2	19 4	2		22 26 PKS
TRINIDAD	131.40	92.0				22 30
SKALSTUGAN	132.07	345.8	19 9K	5		22 30 PKS
UPPSALA	133.63	340.0	19 12	5		22 37 PKS
KSARA	135.04	299.6	19 15	5		21 57 PP
JERUSALEM	135.83	296.8	19 15	4		22 46 PKS
GOTEBORG	137.12	341.5	19 19	5		
LWOW	137.68	325.8	19 20	5		
BUCHAREST	139.23	317.7	19 19	1		21 58
HELWAN	139.36	294.5	19 20	2		22 21 PP
RACIBORZ	140.47	329.7	19 10	-10		22 18
SOFIA	141.81	316.8	19 24	2		22 48
HALLE	142.15	335.9	19 24	1		22 18 PP
PRUHONICE	142.22	332.2	19 21	-2		22 32 PP
BRATISLAVA	142.28	328.2	19 23	0		
VIENNA-H.	142.59	328.8	19 21	-3		
JENA	142.74	335.6	19 22	-2		22 21
KASPERSKE H.	143.28	332.0	19 22	-3		22 37 PP
ATHENS	143.56	309.5				19 24 PKP2
LJUBLJANA	145.01	327.5	19 28A	0		23 37
HEIDELBERG	145.07	336.5	19 28	0		
STUTTGART	145.37	335.4	19 29	0		
TUBINGEN	145.64	335.3	19 30	1		
TRIESTE	145.68	327.7	19 34	5		
KEW	145.90	347.3	19 32	3		
EBINGEN	145.96	335.0	19 31	1		
RAVENSBURG	146.01	334.0	19 31	1		
STRASBOURG	146.10	336.6	19 32	2		
CHUR	146.78	333.0	19 36	5		
PADOVA	146.79	329.0	19 45	14		
BASLE	147.04	335.7	19 33A	2		
PARIS	147.66	342.4	19 36	4		
NEUCHATEL	147.72	335.8	19 37	5		
PAVIA	148.23	331.4	19 33	0		27 19
FLORENCE X.	148.26	327.5	19 40	7		
GARCHY	148.85	340.4	19 35	1		23 24 PP
ROME	148.89	323.7	19 40	6		
ISOLA	149.96	332.5	19 43	7		23 12 PP
MONACO	150.14	331.5	19 43	7		
CLERMONT-FD.	150.17	338.9	19 44	8		23 35 PP
BAGNERES	153.54	340.2	19 41	0		23 37 PP
TOLEDO	157.70	344.3				20 22
COIMBRA	158.20	353.2	20 22	35		
GRANADA	160.09	340.7	20 36A	47		24 23 PP

JULY 23 21.H 51.M 5.S EPICENTRE -18.33 168.18 DEPTH= 0.KM

A=-0.92977 B= 0.19453 C=-0.31255 D= 0.2048 E= 0.9788
G= 0.3059 H=-0.0640 K=-0.9499 HT= 5.1

SE= 2.58

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1961

PAGE 693

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PORT VILA	0.61	12.4	0	17K	2							
NOUMEA	4.27	202.1	1	5K	-2							
KOUMAC	4.30	238.3	1	7K	-1							
SUVA	9.74	90.6	2	30	6							
HONIARA	11.92	316.8	3	55	61						4	48
RAOUL ISLAND	16.71	133.1	4	8	11							
BRISBANE	16.80	234.8	3	55	-3	6	53	-11				
ONERAHI	18.22	163.7	4	16	1							
AFIAMALU	19.74	80.1	4	33	-1	8	43	32				
KARAPIRO	20.56	163.2	4	41K	-1						12	30 SCP
CHARTERS TS.	20.78	261.6	4	44	-1	8	38	6				
RABAU	21.03	310.0	4	32	-15						4	55
RIVERVIEW	21.68	221.3	4	54K	0						5	31 PPP
CHATEAU	21.76	164.4	4	17	-38							
PORT MORESBY	22.24	290.7	5	1K	2	9	9	9				
COBB RIVER	23.01	171.2	5	10	3	9	19	5				
WELLINGTON	23.56	167.5	5	10	-2	9	23	-1				
CANBERRA	24.00	221.4	5	18K	1	9	35	4	5	29	9	45 *SS
KAIMATA	24.27	174.2	5	18	-1	9	39	3				
GEBBIES PASS	25.57	172.5	5	30	-2	9	54	-4				
ROXBURGH	27.09	178.2	5	33	-13	10	35	-11				
MELBOURNE	28.10	221.5	5	55	0	11	8	29				
MOORLANDS	29.93	212.1	6	13A	2							
FORT NELSON	30.21	211.3	6	19K	5	11	9	-4				
DARWIN	36.45	273.9	7	8	0						12	48
MACQUARIE I.	36.80	189.0	7	16	5							
MUNDARING	48.54	243.3	8	47	1							
PERTH	48.87	243.3	8	53	4	15	54	2			22	53
HONOLULU	51.40	41.5	9	7	-1	16	15	-12				
KIPAPA	51.54	41.4	9	14	5							
HAWAII V.OB.	51.91	45.6	9	11	-1	16	48	13				
CAPE HALLETT	54.00	179.2	9	26K	-1	17	5	2				
MANILA	56.83	302.1	10	7	19	17	49	8				
BAGUIO CITY	58.20	303.5	9	55	-3	18	1	2				
MERA	59.41	333.0	10	5	-1	18	16	1				
SCOTT BASE	59.56	180.4	10	5K	-2	18	16	0			10	50 PCP
AJIRO	59.84	332.5	10	7	-2							
OMAESAKI	59.85	331.5	10	13	4							
YOKOHAMA	59.92	333.2	10	9	-1	18	21	0				
MISIMA	59.96	332.5	10	9	-1							
LEMBANG	59.97	272.7	10	10A	0	18	21	-1				
SIOMISAKI	60.07	328.9	10	10	-1	18	27	4				
SHIZUOKA	60.08	331.9	10	11	0							
TOKYO C.M.O.	60.09	333.4	10	11	0	18	11	-12				
HONGO	60.11	333.5	10	13	2	18	23	-1			12	45 PP
HUNATU	60.36	332.5	10	12	-1	18	25	-2				
KAKI OKA	60.38	334.1	10	13	0	18	16	-11				
MITO	60.39	334.4	10	15	2	18	29	2				
TUKUBASAN	60.41	334.0	10	11A	-2	18	24	-3	10	19	12	15 PP
YAKUSIMA	60.55	322.7	10	14	0							
WILKES	60.59	203.0	10	12K	-2	18	1	-29				
KOHU	60.60	332.5	10	13	-1	18	30	0				
TITIBU	60.63	333.1	10	14	-1	18	27	-3				
KUMAGAYA	60.65	333.4	10	16	1	18	18	-12				
MUROTO	60.70	327.5	10	18	3	18	43	12				
ONAHAMA	60.71	335.1	10	15A	0	18	33	2				
UTUNOMIYA	60.78	334.1	10	16	0						14	42
IIDA	60.80	331.8	10	16	0							
KAMEYAMA	60.87	330.3	10	16A	0	18	23	-10				
DJAKARTA	60.91	273.1	10	17K	1	18	31	-3				
SIMIDU	60.96	326.2	10	15	-2	18	35	1				
MAEBASI	60.99	333.3	10	16A	-1						12	7
NARA	61.03	329.7	10	21	4							
SHIRAKAWA	61.13	334.7	10	17	-1							
OSAKA	61.15	329.5	10	18A	0	18	36	-1				
OIWAKE	61.16	332.9	10	17	-1	18	34	-3				
GIHU	61.18	330.9	10	17	-1	18	35	-2				
SUMOTO	61.21	328.8	10	17	-1	18	37	-1			15	4
KOTI	61.27	327.2	10	19A	0	18	39	1				
ABUYAMA	61.31	329.7	10	18A	-1							
HIKONE	61.32	330.4	10	20	1	18	40	1				
HENGCHUN	61.32	308.8	10	22	3						20	17
MATUMOTO	61.34	332.4	10	21	2							
KOBE	61.35	329.2	10	21	2							
KAGOSIMA	61.36	323.6	9	59	-20	18	41	1				
TAITUNG	61.48	309.8	10	23	3							

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1961

PAGE 694

MATUSIRO	61.48	332.7	10 19A	-1	18 37	-4	22 10 55
HUKUSIMA	61.57	335.2	10 23	2	18 45	3	
TAKAMATU	61.62	328.1	10 21	0	18 40	-3	
TSURUGA	61.71	330.5	10 24	2			
ISINOMAKI	61.83	336.3	10 23	0	18 44	-1	
SENDAI	61.85	335.8	10 22A	-1	18 43	-3	
MATUYAMA	61.89	326.9	10 23	0	18 46	0	
HWALIEN	61.89	311.1	10 22	-1			
TAKADA	61.94	333.1	10 23	0			
OOITA	62.03	325.6	10 20K	-4	18 45	-3	
YAMAGATA	62.05	335.4	10 23A	-1	18 47	-1	
TOYAMA	62.06	332.1	10 24	0	18 50	2	
TOYOOKA	62.21	329.5	10 25A	0	18 49	-1	
KUMAMOTO	62.22	324.6	10 24	-1	18 51	1	
NIIGATA	62.29	334.2	10 22	-4	18 56	5	
TAINAN	62.31	309.4	10 29	3			
HIROSIMA	62.48	327.0	10 13	-14	18 52	-2	
MIZUSAWA	62.51	336.5	10 28	1	18 54	0	
NAGASAKI	62.60	324.0	10 27A	-1	18 55	0	
TAIPEI	62.62	312.0	10 28A	0	18 57	2	
MIYAKO	62.66	337.4	10 27	-1	18 57	1	
TAICHING	62.67	310.7	10 18	-10			
AIKAWA	62.71	333.7	10 27	-2			
WAZIMA	62.76	332.3	10 29	0	18 57	0	
SAGA	62.76	324.6	10 22	-7			
SAKATA	62.82	335.4	10 30	1	18 53	-5	
SIMONOSEKI	62.95	325.6	10 31	1			
HUKUOKA	62.97	324.9	10 29A	-1	18 59	-1	
MORIOKA	63.00	336.8	10 29K	-1	18 55	-5	
MATSUE	63.00	328.2	10 30	0			
TOMIE	63.15	323.1	10 28	-3	19 0	-2	
AKITA	63.42	336.0	10 33A	0	19 11	6	
SAIGO	63.47	328.9	10 37	4	19 9	3	
HATINOHE	63.59	337.6	10 32	-2	19 6	-2	
AOMORI	64.12	337.2	10 40	2	19 12	-2	
HIROO	64.52	339.8	10 39	-1			
URAKAWA	64.59	339.3	10 42	1	19 17	-3	
NEMURO	64.77	341.9	10 41	-1	19 18	-4	
KUSIRO	64.81	340.9	10 41A	-1	19 20	-3	
HAKODATE	64.99	337.7	10 43A	0	19 26	1	
OBHIRO	65.14	340.0	10 46	2			
MORI	65.31	337.7	10 45	-1	19 26	-3	
MURORAN	65.36	338.1	10 48	2			
TOMAKOMAI	65.42	338.7	10 45	-1			
ABASHIRI	65.79	341.3	10 51	2			
SAPPORO	65.89	338.8	10 48A	-1	19 34	-2	
SUTTSU	66.05	337.8	10 50	0	19 32	-6	
HONG KONG	66.48	305.2	10 52A	-1			
ZO-SE	66.73	316.9	10 54A	-1	19 45	-1	
CANTON	67.55	305.5	11 1A	1	19 59	3	
WAKKANAI	67.86	340.2	11 5	3	20 11	11	
NANKING	68.91	316.3	11 8A	0	20 12	0	
BYRD STATION	69.01	169.7	11 6	-3	20 14	1	
VLADIVOSTOK	69.65	332.5	11 13	0	20 19	-2	
UGLEGORSK	71.01	342.2	11 21	0	20 35	-2	15 49 PPP
PETROPAVLOVK	71.53	353.9	11 23	-1	20 40	-3	
MEDAN	71.78	280.2	11 25	-1	20 41	-5	
SOUTH POLE	71.79	180.0	11 24	-2	20 35	-11	
CHANGCHUN	73.25	329.1	11 34A	0			
PEKING	75.60	321.3	11 48A	0	21 26	-3	
SIAN	76.88	313.0	11 57A	2	21 45	2	
KUNMING	76.94	302.2	11 57A	2	21 46	3	
CHENG TU	78.58	307.7	12 5A	1	22 2	1	
MAWSON	78.90	202.1	12 5A	-1	22 5	1	15 12 PP
PAOTOW	79.67	318.9	12 11A	1	22 11	-2	
PORT BLAIR	80.17	285.8	12 21	8	22 19	1	
TOCKLAI	84.11	300.5	11 48A	-46			
CHITTAGONG	84.89	295.4	12 40	3	23 5	-1	12 55 15 55 PP
ULAN-BATOR	85.66	323.7	12 41	0			22 58 PS
YAKUTSK	85.69	342.9	12 39	-2			
STA. CRUZ C.	85.69	48.9	12 43	2			
SAN FRANCISCO	85.72	48.0	12 44	2			
BRANNER	85.75	48.5	12 43	1			
UKIAH	85.80	46.6	12 41A	-1			
BERKELEY	85.90	48.0	12 41A	-2	22 49	-27	
VINEYARD	86.03	49.3	12 45	2			
ARCATA	86.04	44.7	12 44A	1			
SHILLONG	86.05	298.4	12 44A	1	23 6	-11	16 40 PP
LICK	86.10	48.7	12 43A	-1			16 11

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1961

PAGE 695

SHASTA	87.09	45.5	12 58	10				
FRESNO	87.18	49.9	12 48	-1				
PASADENA	87.30	52.8	12 47A	-2	23 24	-5	16 16	PP
MINERAL	87.47	46.0	12 48A	-2				
ARGENTINE I.	87.72	160.5	12 49	-2	23 27	-6		
CALCUTTA	87.92	294.4	12 55	3	23 17	-18	16 7	PP
LHASA	88.27	301.9	12 56A	2	23 42	4	23 23	SKS
CORVALLIS	88.28	41.7	12 53	-1				
RENO	88.35	47.4	12 54A	0				
SITKA	88.58	27.1	12 54	-1	23 15	-26		
IRKUTSK	89.39	326.5	12 59A	0			24 53	PS
COLLEGE	89.47	17.3	12 48A	-12				
VICTORIA	90.05	38.2	13 4K	2				
CHATRA	90.44	298.0	13 6K	2	23 30	-28	16 27	PP
BOKARO	90.59	294.8	13 6A	1	23 53	-6	16 47	PP
VI SHAKHAPTM	90.79	288.3	13 7K	1	23 37	-24	16 34	PP
EUREKA	91.04	48.6	13 4A	-3	23 54	-9	16 54	PP
MADRAS	92.15	282.9	13 12A	0	23 43	-30	16 55	PP
TUCSON	92.29	56.9	13 13K	0	24 1	-13	16 54	PP
TUCSON TELE.	92.40	56.8	13 13K	0	24 22	7	17 2	PP
PENTICTON	92.65	38.6	13 13	-1				
MAZATLAN	93.01	66.7					15 55	PS
GLEN CANYON	93.33	52.2	13 17	-1	24 7	-16		
MANZANILLO	93.56	71.2			24 31	6	22 11	
TIKSI	93.63	348.4	13 14	-5			17 7	PP
SALT LAKE C.	94.45	48.6	13 22	-1	23 59	-34		
GUADALAJARA	94.96	70.0			24 50	13	25 58	PS
CHIHUAHUA	94.99	61.6			25 5	27	30 26	SS
HYDERABAD	95.10	286.6	13 27A	1	24 3	2	30 23	SS
HUNGRY HORSE	95.67	40.9	13 26	-2			17 13	PP
BUTTE	95.78	43.5	13 30A	1				
BANFF	95.79	37.9	13 33	4				
FLAMING GRGE	96.26	49.1	13 29	-2	24 9	2	17 15	PP
BOZEMAN	96.66	44.2	13 33A	0	24 13	3		
SEHORE	98.00	291.7			24 30	14		
TACUBAYA	98.29	72.3			24 10	-8	17 40	PP
DEHRA DUN	99.14	298.9	13 42	-2	24 23	1	16 49	PP
POONA	99.60	286.4	13 46A	0	24 23	-2	17 57	PP
OAXACA	99.84	75.3					17 51	PP
BOMBAY	100.64	286.4	13 53	2	24 33	3	17 1	PP
VERA CRUZ	101.02	73.3	13 59	7	24 19	-13	18 7	PP
RAPID CITY	101.55	47.3	14 2	7				
LAHORE	102.55	299.2	14 0	1				
SEMIPALATNSK	102.60	319.1	13 57	-3			18 9	PP
WICHITA MTS.	102.78	57.5	13 58A	-2	24 30	-10	18 13	PP
COMITAN	103.91	77.3			24 57	12	18 35	PP
FRUNSE	104.78	310.6	14 9	0	24 49	0	18 28	PP
WARSAK DAM	105.37	301.1	14 16	777				
KHOROG	106.08	304.7	13 57	777				
FAYETTEVILLE	106.58	56.9	14 25K	777			18 41	PP
MERIDA	107.38	73.2					18 55	PP
TASHKENT	108.44	308.3	14 26	777			18 56	
QUETTA	108.45	296.4	14 27	777	25 4	-1	14 41	18 53
RESOLUTE	109.37	16.2	18 57	777				
HUANCAYO	110.46	110.8					19 10	PP
TANANARIVE	110.94	240.7	18 41	6			19 18	PP
KHEYS	111.22	350.5	14 37	-238			18 45	PP
AREQUIPA	111.85	116.8	19 18	42				
SVERDLOVSK	114.74	324.8	14 55	-227			19 28	PP
CHINCHINA	116.40	93.6	18 45	0	25 35	-2	19 52	PP
ASHKABAD	116.50	303.8	15 3	-222				
CLEVELAND	116.98	52.3			25 37	-2	19 57	PP
COLUMBIA	117.00	60.7	18 46A	0			19 53	PP
BOGOTA	117.76	94.5			25 41	-1	20 3	PP
MORGANTOWN	118.15	54.4	18 48	-1			19 59	PP
FUQUENE	118.35	93.7	18 51	2			20 6	PP
GALERAZAMBA	118.37	87.4					20 9	PP
HERMANUS	119.80	209.4					20 20	PP
WASHINGTON	120.38	55.2	18 37	-16	26 44	53	20 13	PP
SHIRAZ	120.79	294.0	18 53K	-1	25 50	-2	20 28	PP
OTTAWA	121.08	47.6	18 52	-2				
KIMBERLEY	121.34	217.8	18 55	0				
TEHERAN	122.01	301.1	18 55	-1			19 34	PP
PALISADES	122.74	52.7	18 56	-2			20 30	PP
SHAWINIGAN	122.99	46.0	18 56	-2				
WESTON	124.55	50.8	19 3A	2			20 45	PP
BULAWAYO	124.92	228.0	19 1	-1				
SODANKYLA	125.18	342.9	19 0	-2			20 49	PP

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1961

PAGE 696

TROMSOE	125.35	347.3	18 58	-5			
GORIS	125.86	305.8	19 5	1	25 57	-11	22 46 PKS
CARACAS	126.22	90.3					29 11
KIRUNA	126.45	345.4	19 2	-3			20 54 PP
TIFLIS	126.76	308.7	19 8	3			23 32 PPP
KAJAANI	127.07	339.5	19 7	1			21 4 PP
MOSCOW	127.38	327.3	19 6	0			21 7 PP
SAN JUAN	128.63	80.8	19 10	1			
BROKEN HILL	128.64	233.3	19 7	-2			
PULKOVO	128.76	334.2	19 8	-1			21 16 PP
UMEA	129.59	342.2	19 8	-3			22 29 PKS
HALIFAX	129.68	46.8	19 13K	2			
NURMIJARVI	130.51	337.2	19 7	-5			21 27 PP
TRINIDAD	131.51	91.9	19 14	0			22 37
ST. KITTS	131.65	82.8	19 15	0			22 46
SKALSTUGAN	131.87	345.8	19 11	-4			22 40 PKS
ANTIGUA	132.46	83.3	19 17	1			
FORT FRANCE	132.68	86.7	19 24	7			
UPPSALA	133.42	340.0	19 15	-3			21 42 PP
SIMFEROPOL	133.56	315.2	19 16	-2	26 23	-5	21 43 PP
REYKJAVIK	133.72	6.1	19 21K	2			22 48 SKP
SIDA	134.39	3.9	19 25	5			22 54 SKP
KSARA	134.86	299.7	19 20	-1			22 6 PP
LWIRO	135.10	247.2	19 6	-15			16 40 P
JERUSALEM	135.66	296.9	19 23A	1			23 2 PKS
IASI	136.82	320.8	19 23	-1			26 0
GOTEBORG	136.91	341.5	19 25	1			
LWOW	137.46	325.9	19 15	-10			22 11 PP
WARSAW	137.50	330.4	18 13	-72			21 7
BACAU	137.53	320.3	19 41	15			24 21
FOCSANI	137.75	319.0	19 27	1			23 33
ISTANBUL KA.	138.38	311.8	19 19	-8	26 27	-9	19 47
COPENHAGEN	138.42	339.5	19 17K	-10			23 6 PKS
ISTANBUL UN.	138.44	311.8	19 27	0			23 16
BUCHAREST	139.02	317.8	19 19	-9			22 23
HELWAN	139.19	294.7	19 19	-10			22 50 PP
CAMPULUNG	139.30	319.5	19 32	3			24 18
KRAKOW	139.44	328.6	19 19	-10			22 29
CHORZOW	139.74	329.4	19 25	-5			22 29
SKALNATE PL.	139.82	327.3	19 31	1			22 45 PKS
RACIBORZ	140.26	329.7	19 23	-7			22 5
ABERDEEN	140.54	351.7	19 21	-10			22 26 PP
TIMISOARA	141.33	322.3	19 29	-3			23 14
BUDAPEST	141.53	326.0	19 26	-7	26 8	-33	22 13 PP
SOFIA	141.61	316.9	19 29	-4	26 22	-19	
COLLMBERG	141.68	334.9	19 28	-5			22 39 PP
HURBANDVO	141.71	327.1	19 23	-10	26 40	-1	22 11 PP
EDINBURGH	141.91	352.1	19 48	15			
HALLE	141.94	335.9	19 28	-5			22 39 PP
PRAGUE	142.00	332.4	19 25	-9			35 9 PPS
PRUHONICE	142.01	332.2	19 27A	-7			22 42 PP
BRATISLAVA	142.07	328.2	19 31	-3	26 40	-2	22 46 PKS
BELGRADE	142.30	321.6	19 29A	-5			23 15 PKS
VIENNA-H.	142.38	328.9	19 30	-4			22 44 PP
JENA	142.53	335.6	19 27	-7			22 43 PP
WITTEVEEN	142.67	341.5	19 37	2			
CHEB	142.87	334.1	19 29	-6			22 51 PP
KASPERSKE H.	143.07	332.0	19 30	-5			22 37 PP
MUNSTER	143.10	339.9	19 31	-4			19 58
SKOPJE	143.19	317.0	19 21	-15			
ATHENS	143.36	309.7	19 32A	-4			22 46 PP
LUANDA	143.39	224.6	19 35	-1			22 47 PP
DE BILT	143.74	342.2	19 37A	1			22 54 PP
ZAGREB	144.20	326.1	19 36A	-1			
TITOGRAD	144.33	319.0	19 35	-3			26 1 PPP
LJUBLJANA	144.80	327.6	19 38A	0	26 19	-27	22 55 PP
HEIDELBERG	144.86	336.5	19 36	-2			
STUTTGART	145.15	335.4	19 39A	0			23 1 PP
KARLSRUHE	145.30	336.4	19 41	2			
TUBINGEN	145.43	335.3	19 39A	0			
TRIESTE	145.47	327.7	19 40	0			25 39 PPP
KEW	145.70	347.2	19 40	0			23 4 PP
EBINGEN	145.75	335.0	19 39	-1			
RAVENSBURG	145.80	334.0	19 39	-1			
STRASBOURG	145.89	336.6	19 40	0			23 4 PP
CHUR	146.57	333.0	19 42	1			30 33
PADOVA	146.57	329.1	19 43	2			23 13 PP
TARANTO	146.67	317.6	19 44	2			23 44 PP

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1961					PAGE 697				
BANGUI	147.18	248.7	19 43	1					26 46
PARIS	147.46	342.3	19 45	2					23 14 PP
BOLOGNA	147.50	328.4	19 50	7			20 51		33 55 PPS
NEUCHATEL	147.51	335.8	19 43	0					30 35
PAVIA	148.02	331.4	19 44A	0					26 32 PPP
FLORENCE X.	148.05	327.6	19 40	-4					20 0 PKP2
PRATO	148.06	327.8	19 41	-3					29 55
JERSEY	148.24	347.9	19 49	5					
FOLINIÈRE	148.27	345.7	19 44	0					
CHIAVARI	148.60	330.2	19 57	12	26 58	7	20 19		24 42 PP
GARCHY	148.65	340.4	19 44	-1					23 26 PP
ROME	148.68	323.8	19 48	3	27 0	8			23 23 PP
REGGIO CALA.	148.98	315.1	19 46	1					
MESSINA	148.99	315.3	19 43	-2					23 22 PP
ISOLA	149.75	332.5	19 47	0					23 31 PP
MONACO	149.93	331.5	19 46	-1					23 28 PP
CLERMONT-FD.	149.96	338.9	19 47	0					23 28 PP
BAGNERES	153.33	340.2	19 51A	-1					23 47
TORTOSA	155.21	337.3	19 54	0					23 58 PP
ANGRA DO HO.	155.71	30.4	20 6	11					45 49 SS
SERRA PILAR	157.11	353.7	19 56K	-1	26 59	-2			24 8 PP
PONTA DELGDA	157.17	29.3	20 1K	4					20 31 PKP2
TOLEDO	157.50	344.2	19 56A	-1					24 10 PP
ALICANTE	157.73	335.9	20 1	3	27 5	3			24 14 PP
COIMBRA	158.01	353.1	19 55	-3					24 13 PP
LISBON	159.55	354.0	20 0A	0					24 22 PP
ALMERIA	159.80	337.8	20 1A	1	27 10	6			24 23 PP
GRANADA	159.88	340.6	19 59K	-1	26 59	-5			24 26 PP
MBOUR	173.69	127.7	20 11	0					21 45 PKP2

JULY 23 22.H 1.M 52.S EPICENTRE -18.44 168.21 DEPTH= 0.KM

A=-0.92925 B= 0.19390 C=-0.31448 D= 0.2043 E= 0.9789
G= 0.3078 H=-0.0642 K=-0.9493 HT= 5.0

SE= 2.01

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
HONIARA	12.02	317.1	2	58	3							
ONERAHI	18.10	163.7	4	14	0							
AFIAMALU	19.73	79.7	4	32	-2							
KARAPIRO	20.44	163.2	4	41K	0							
RABAU	21.13	310.1	4	43	-6							
RIVERVIEW	21.62	221.5	4	53A	0							
CHATEAU	21.64	164.4	4	54	0							
WELLINGTON	23.44	167.5	5	11	0							
CANBERRA	23.93	221.6	5	18	2							
GEBBIES PASS	25.45	172.5	5	30	-1							
SCOTT BASE	59.45	180.4	10	6K	-1						39 37	PKPPKP
MATUSIRO	61.60	332.8	10	22A	1						11 43	
MAWSON	78.80	202.1	12	7	1						15 17	PP
UKIAH	85.86	46.5	12	38	-5							
BERKELEY	85.96	48.0	12	43	0							
LICK	86.16	48.7	12	46A	2							
SHASTA	87.15	45.4	12	50	1							
FRESNO	87.23	49.9	12	51	2							
PASADENA	87.34	52.8	12	50	0						14 15	
MINERAL	87.53	46.0	12	52K	1							
CORVALLIS	88.35	41.7	12	32	-23							
RENO	88.41	47.4	12	57K	2							
COLLEGE	89.58	17.2	12	58	-2							
TUCSON TELE.	92.44	56.8	13	16	2							
RAPID CITY	101.60	47.4									19 14	
RESOLUTE	109.48	16.3	18	53	777							
HUANCAYO	110.39	110.9	18	53	19							
LA PAZ	114.58	118.6	18	44	2							
SHIRAZ	120.87	294.0	18	29	-25						19 56	PP
SHAWINIGAN	123.05	46.1	18	59	1							
BULAWAYO	124.86	227.9	19	4	2							
SODANKYLA	125.30	342.9	19	3	0							
TROMSOE	125.47	347.3	19	3	0							
KIRUNA	126.57	345.4	19	5	0							
KAJAANI	127.19	339.5	19	8	2							
BROKEN HILL	128.60	233.2	19	10	1							
UMEA	129.71	342.2	19	9	-2						22 31	PKS

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1961

PAGE 698

NURMI JARVI	130.63	337.2	19 13	0	22 37	PKS
SKAL STUGAN	131.99	345.8	19 16	0	22 41	PKS
UPPSALA	133.54	340.0	19 11	-7	20 42	
JERUSALEM	135.73	296.8	19 25	3	22 57	PKS
EDINBURGH	142.03	352.1	19 44	10		
HALLE	142.06	335.8	19 27	-7		
KASPERSKE H.	143.18	332.0	19 35	-1	21 57	
ATHENS	143.46	309.6	19 34	-2		
BENSBERG	144.23	339.4	19 38	0		
LJUBLJANA	144.92	327.5	19 41	2		
HEIDELBERG	144.98	336.5	19 40A	1		
STUTTGART	145.27	335.3	19 42A	3	20 0	
TUBINGEN	145.55	335.3	19 42	2		
TRIESTE	145.58	327.7	19 51	11		
KEW	145.82	347.2	19 43	3		
EBINGEN	145.87	335.0	19 42	2		
RAVENSBURG	145.92	333.9	19 42	1		
STRASBOURG	146.01	336.6	19 44	3	20 32	
PADOVA	146.69	329.0	19 58	16	20 48	
BANGUI	147.16	248.5	19 47	4	20 0	SPKP
PARIS	147.58	342.3	19 48	5		
FOLINIERE	148.39	345.7	19 50	5	21 14	
ISOLA	149.86	332.4	19 45A	-2	20 2	
CLERMONT-FD.	150.07	338.8	19 54	7	20 17	
BAGNERES	153.45	340.2	19 54	2		

JULY 24 1.H 30.M 59.S EPICENTRE -21.33-179.23 DEPTH= 632.KM

A=-0.93224 B=-0.01246 C=-0.36163 D=-0.0134 E= 0.9999
G= 0.3616 H= 0.0048 K=-0.9323 HT= 4.3

DEPTH OF FOCUS= 0.095R

SE= 1.33

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	O-C S	M	S	M	S
SUVA	3.85	324.8	1	31	4							
RAOUL ISLAND	7.97	171.7	2	0	-1	3	37	0				
AFIAMALU	10.24	45.1	2	19	-3	4	8	-7				
ONERAHI	15.44	199.9	3	14	2							
KARAPIRO	17.15	194.1	3	28K	0						6	22
TUAI	17.69	189.3	3	30	-3							
CHATEAU	18.37	193.0	3	37	-2							
WELLINGTON	20.53	193.0	3	57	-2	7	19	9				
HONIARA	23.26	297.4	4	22	-1							
GEBBIES PASS	23.31	195.0	4	47	23	7	48	-7				
BRISBANE	26.17	251.1	4	48	-1							
CANBERRA	31.09	236.5	5	31	0				7	11	10	53 SCP
CHARTERS TS.	32.26	265.9	5	40	-1	10	10	-3			6	24
PORT MORESBY	34.43	285.0	5	58	-1							
MACQUARIE I.	37.00	201.1	6	20	0							
ADELAIDE	39.20	240.5	6	38K	0							
HONOLULU	47.13	27.3	7	39	0							
KIPAPA	47.27	27.3	7	39	-1							
CAPE HALLETT	51.35	184.1	8	11K	1						9	19 PCP
SCOTT BASE	56.97	183.5	8	51K	2				10	46	12	37 SCP
BYRD STATION	64.02	170.4	9	35	0						14	10
SOUTH POLE	68.80	180.0	10	5	1							
MIRNY	69.76	205.2	10	9K	-1							
MATUSIRO	70.20	324.6	10	12K	-1						10	36
PETROPAVLOK	76.49	346.5	10	47	-1							
CANTON	79.13	300.0				20	17	6				
NANKING	79.58	310.3	11	5	1							
PASADENA	80.09	47.5	11	8	1							
MAWSON	80.39	200.1	11	9A	0				13	22	12	32
ARGENTINE I.	80.66	157.2	11	11	1							
CHANGCHUN	82.35	323.0	11	18K	0	20	49	6				
BOULDER CITY	83.39	47.4	11	24	0							
TUCSON TELE.	84.46	52.3	11	31	2				13	44		
EUREKA	84.51	44.0	11	30	1				13	42		
PEKING	85.67	315.9	11	34	-1							
GLEN CANYON	86.13	47.9	11	38	1				13	52		
PENTICTON	87.99	34.4	11	46	0							
COLLEGE	89.27	12.9	11	50	-2				14	10		
FLAMING GRGE	89.58	45.3	11	53	0				14	7		
CHENG TU	89.97	303.0	11	57	2							

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1961

PAGE 699

BUTTE	90.12	39.8	11 55	0		14 9	
HUNGRY HORSE	90.49	37.3	11 56	-1			15 42 PP
WICHITA MTS.	94.60	54.6	12 16	0	21 54 -39	14 31	16 10 PP
LHASA	100.02	297.9					22 20
KHEYS	116.07	351.2	17 32K	-1			
APATITY	129.45	344.4	19 4	65			
TROMSOE	130.46	351.8	18 1	1			20 29 PP
BULAWAYO	130.60	215.3					20 30
SODANKYLA	131.16	347.0	17 56	-6			20 31 SKP
KIRUNA	131.90	350.1	18 3	0			20 33 PP
SHIRAZ	132.87	291.1					20 38
KAJAANI	133.64	344.0	18 6	0			20 39 SKP
REYKJAVIK	134.62	13.7				20 44	
BROKEN HILL	135.23	219.8					20 46
UMEA	135.56	347.8					20 43 PP
PULKOVO	136.24	338.8					20 47 PP
SKALSTUGAN	137.06	352.5	18 4	-9			20 49 PP
NURMIJARVI	137.39	342.8	18 3	-10			20 51 SKP
UPPSALA	139.69	346.9	18 10	-8			20 56 PP
GOTEBORG	142.76	350.1	18 20K	-4			
SIMFEROPOL	143.86	318.5	18 26	1			
COPENHAGEN	144.60	348.6	18 27A	0			
LWOW	146.13	332.7	18 32	3			20 56
KSARA	146.64	299.4	18 34	4		20 59	
KRAKOW	147.58	336.7	18 34	3			
JERUSALEM	147.59	296.0	18 37K	6		20 58	
RACIBORZ	148.17	338.5	18 38	6			
WITTEVEEN	148.24	353.2	18 36	4			
COLLMBERG	148.60	345.2	18 39K	7		21 2	18 44 PKP2
HALLE	148.65	346.5	18 38	5			18 44 *PPKP2
MUNSTER	148.96	351.8	18 39	6			
ISTANBUL UN.	149.08	315.9	19 39	66			
JENA	149.26	346.6	18 39	6			22 14
PRUHONICE	149.40	342.4	18 40K	6		21 7	
KEW	149.91	1.4	18 41	7			18 50 PKP2
BENSBERG	150.00	351.9	18 41	6			
BRATISLAVA	150.18	337.8	18 44	9		21 5	
VIENNA-H.	150.36	338.7	18 42	7			
KASPERSCHE H.	150.44	342.8	18 43K	8		21 5	22 27 PP
HELWAN	151.22	293.4	18 45	9			21 10
SOFIA	151.53	323.6				21 13	
STUTTGART	151.79	348.0	18 46	9			
STRASBOURG	152.24	350.0	18 47	9			
FOLINIERE	152.60	1.8	18 47A	9			19 1 PKP2
LJUBLJANA	152.90	338.7	18 48K	9			
ATHENS	154.17	315.0	18 48	7			
ISOLA	156.62	348.6	19 18	34			21 20
TOLEDO	161.06	11.5	19 38	49			

JULY 24 8.H 48.M 18.S EPICENTRE 0.13 124.22 DEPTH= 171.KM

A=-0.56232 B= 0.82692 C= 0.00222 D= 0.8269 E= 0.5623
G=-0.0013 H= 0.0018 K=-1.0000 HT= 7.2

DEPTH OF FOCUS= 0.022R

SE= 2.32

	DELTA DEG.	AZ. DEG.	P			S			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S			
MANILA	14.78	348.0	3	30	9	6	8	7							
BAGUIO CITY	16.58	347.7	3	41	-3	6	53	12							
LEMBANG	17.94	247.0	4	0A	1	7	30	19							
DJAKARTA	18.45	249.8	4	22	17							8	14		
NHATRANG	19.13	309.4	4	11	-1	7	47	12							
HONG KONG	24.11	336.7	5	1	0	9	12	9							
PORT MORESBY	24.72	113.1	5	6	0	9	20	7				5	37		
CANTON	25.15	335.9	5	11	0	8	45	-35							
MEDAN	25.75	277.9	5	16K	0										
RABAU	28.26	99.1	5	32	-7										
MUNDARING	32.81	192.6	6	17	-2										
CHENG TU	35.92	329.5	6	45A	0	12	9	-1							
ABUYAMA	36.15	15.9	6	47K	0										
ADELAIDE	37.46	160.2	6	55	-3										
MATUSIRO	38.48	18.2	7	5A	-2	12	52	3				9	18 PCP		
BRISBANE	38.75	137.2	7	9	0	13	1	8							

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1961

PAGE 700

SHILLONG	40.18	311.5	7 21	0					
PEKING	40.39	350.5	7 23	1					
CANBERRA	42.17	149.3	7 36A	-1					
RIVERVIEW	42.19	145.8	7 36A	-1	13 50	6	8 11	9 28	PCP
LHASA	43.13	315.8	7 47	2	14 7	10			
CHATRA	44.42	309.7	7 56K	1				9 38	
Y.-SAKHLINSK	49.42	16.6	8 32	-2					
LAHORE	56.55	308.5	9 24	-2					
WARSAK DAM	59.66	310.1	9 49	1					
PETROPAVLOVK	60.00	23.2	9 51	1					
KARAPIRO	60.47	134.8	9 53	-1					
CHATEAU	61.04	136.1	10 4	7					
YAKUTSK	61.87	2.9	10 3	0	18 18	7			
TUAI	61.99	135.1	10 2	-2					
QUETTA	62.01	304.4	10 2	-2			10 40		
STALINABAD	63.51	313.8	10 12	-2					
SHIRAZ	74.07	300.7	11 18K	-1	21 7	31		12 2	
SVERDLOVSK	75.74	329.5	11 27A	-1					
CAPE HALLETT	77.86	167.0	11 40	0					
MAWSON	79.53	200.0	11 49A	0			12 33		
HAWAII V.OB.	81.01	70.5	12 0	3					
SCOTT BASE	81.15	171.7	12 58K	61					
TIFLIS	82.01	312.0	12 3	1					
KHEYS	86.07	351.3	12 22	0					
MOSCOW	87.96	325.6	12 31	0					
KSARA	88.54	303.7	12 36	2					
COLLEGE	89.02	25.3	12 36	0			12 58	16 12	PP
JERUSALEM	89.08	301.6	12 38A	2					
APATITY	90.18	337.4	11 21	-81					
KAJAANI	92.74	334.1	12 54	0					
SODANKYLA	92.81	337.4	12 53	-1					
NURMIJARVI	94.60	330.7	13 1	-1					
KIRUNA	95.07	338.3	13 3	-1					
TROMSOE	95.18	340.2	13 4	-1					
BULAWAYO	95.31	249.9	13 6A	1					
BROKEN HILL	95.60	255.6	13 8	1					
UMEA	96.04	334.4	13 6	-2					
SKALSTUGAN	99.51	335.1	13 22	-2					
COLLMBERG	103.03	323.1	13 41	1					
HUNGRY HORSE	110.45	37.3	18 14	3					
PASADENA	112.53	52.7	18 20	5					
EUREKA	112.54	46.6	18 20	5				14 27	P
FLAMING GRGE	116.62	43.0	18 27	4					
GLEN CANYON	116.66	47.8	18 27	4					
TUCSON TELE.	119.02	52.4	18 33	5					
RAPID CITY	119.09	37.4	18 32	4					
LAWRENCE	126.90	38.3	17 47	-56					
WICHITA MTS.	127.09	44.6	18 47	3				20 37	PP
FAYETTEVILLE	129.30	40.6	18 51	3				22 6	PPP
SHAWINIGAN	131.18	15.5	18 55	4				22 12	
OTTAWA	131.36	18.7	18 54	2				22 12	
BREBEUF	131.91	16.8	18 55	2					
MORGANTOWN	134.68	26.4						22 25	
WESTON	135.43	16.4	19 3K	4					
PALISADES	135.87	19.8	19 3	3				22 28	PKS
HUANCAYO	157.27	122.1	19 43	8					
SAN JUAN	158.99	28.4	20 18	41					
LA PAZ	159.68	143.8	20 44	67				21 24	
TRINIDAD	167.92	27.4	19 50	5				20 55	PKP2

JULY 25 2.H 48.M 14.S EPICENTRE -8.92 -71.37 DEPTH= 599.KM

A= 0.31566 B=-0.93629 C=-0.15403 D=-0.9476 E=-0.3195
G=-0.0492 H= 0.1460 K=-0.9881 HT= 6.7

DEPTH OF FOCUS= 0.089R

SE= 1.86

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S		
AREQUIPA	7.50	180.9	1	54	-1	3	16	-11				
LA PAZ	8.17	157.6	2	2	1	3	39	1				
CARACAS	19.79	13.0	3	56K	3	7	3	3				
TRINIDAD	21.82	27.2	4	13	1	7	47	14				
GRENADA	22.93	24.9	4	21	-1							

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1961

PAGE 701

DOMINICA	26.01	22.4	4 47	-2				
ST. KITTS	27.45	18.1	5 1	0				
ANTIGUA	27.55	20.0	5 1	-1				
SAN JUAN	27.62	10.6	5 2	-1	7 46	39	6 33	
COLUMBIA	43.66	348.3	7 14	-1				
CHAPEL HILL	45.18	351.2	7 26	0				
MORGANTOWN	48.95	351.2	7 55K	0	14 15	-1		
FAYETTEVILLE	49.66	335.7	7 59K	-1	14 21	-4		
WICHITA MTS.	50.47	330.8	8 5K	-1	14 35	-1	9 55	9 13 PCP
WESTON	51.05	0.0	8 9K	-1				
LAWRENCE	52.57	336.6	8 21	0	15 1	-3		
HALIFAX	53.75	6.9	8 29K	0				
OTTAWA	54.21	356.2	8 31	-1				
SHAWINIGAN	55.23	358.8	8 29K	-11				
TUCSON TELE.	55.61	319.4	8 42	0			10 36	
TUCSON	55.63	319.3	8 42	0			10 36	
MBOUR	58.71	67.2	9 4	1				
LARAMIE	59.05	330.4	9 6	0				9 46
GLEN CANYON	59.20	323.0	9 7	0			11 1	
RAPID CITY	60.12	334.0	9 12	-1	15 42	-59		
BOULDER CITY	60.55	320.2						11 10
FLAMING GRGE	60.71	327.6	9 16	0				11 12
PASADENA	61.65	316.6	9 23	0				9 54
EUREKA	63.45	322.6	9 34	0			11 32	
FRESNO	64.24	318.2	9 40	1				
BOZEMAN	64.95	330.4	9 44	0				
LICK	65.78	317.8	9 48	-1				
RENO	65.85	320.6	9 51K	2				
BERKELEY	66.48	318.0	9 54	1				
MINERAL	67.44	320.5	9 59A	0				
SHASTA	68.13	320.4	10 2K	-1				
HUNGRY HORSE	68.29	330.9	10 4	0			12 0	
PENTICTON	71.70	329.1	10 24K	0				
VICTORIA	73.21	326.8	10 33K	1				
SOUTH POLE	81.14	180.0	11 15	0				
BAGNERES	82.84	44.5	11 24	0				13 30
FOLINIERE	84.35	38.9	11 31	0				13 38
RESOLUTE	84.70	353.9	11 33	0				
KEW	85.38	36.4	11 36	0	21 13	-4		
CLERMONT-FD.	85.70	42.6	11 39	1				13 47
GARCHY	86.12	41.1	11 37	-3			13 45	
SCOTT BASE	87.71	190.4	11 48A	1			13 55	14 49 *SP
ISOLA	87.95	44.9	11 49	1				13 58
MONACO	88.11	45.4	11 49	0				
STRASBOURG	89.51	40.7	11 54	-2				
BENSBERG	89.72	38.3	11 56	0			14 4	
CAPE HALLETT	89.83	195.6	11 57	0			14 6	
STUTTGART	90.53	40.8	12 0	0			14 8	
COLLEGE	92.32	335.5	12 8	0			14 15	15 57 PP
JENA	92.44	38.9	12 8	-1				
HALLE	92.77	38.4						14 15
KASPERSKE H.	93.38	41.0	12 7K	-6			14 17	
COLLMBERG	93.38	38.7	12 13K	0			14 22	14 54
LJUBLJANA	93.51	44.1	12 15	1				
PRUHONICE	94.14	40.2	12 17K	0			14 26	
SKAL STUGAN	95.10	26.5	12 22A	1				14 30
MAWSON	97.01	163.9	12 28	-1				
KIRUNA	98.87	22.6	12 38	0				
CANBERRA	121.80	218.6	17 49	2				
CHARTERS TS.	133.07	231.8	18 10	1				20 27
QUETTA	135.73	55.6	18 16	3				
MATUSIRO	141.57	320.2	18 20	-5				
GUAM	144.32	280.6	18 29	0				
PEKING	148.30	348.9	18 37	2				
CHATRA	152.98	46.0	18 44	2				
SIAN	154.79	359.4	18 48	3				
SHILLONG	157.02	41.8	18 47	-1				
KUNMING	162.94	18.5	18 55	1				

JULY 25 18.H 39.M 27.S EPICENTRE -0.03 124.90 DEPTH= 39.KM

A=-0.57214 B= 0.82015 C=-0.00055 D= 0.8202 E= 0.5721
G= 0.0003 H=-0.0004 K=-1.0000 HT= 7.2

DEPTH OF FOCUS= 0.001R

SE= 2.24

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1961

PAGE 702

	DELTA	AZ.	P			O-C			*PP		SUPP.	
	DEG.	DEG.	M	S	S	M	S	S	M	S	M	S
DARWIN	13.61	154.6	3	12	-1						5	42
BAGUIO CITY	16.89	345.6	3	56	1	7	12	12				
LEMBANG	18.51	248.3	4	15A	0	7	37	0				
NHATRANG	19.76	308.6	4	31A	1	8	11	6				
PORT MORESBY	24.03	113.4	5	11K	-1	9	23	-1				
HONG KONG	24.54	335.5	5	17	0	9	17	-15				
CANTON	25.58	334.7	5	28A	1	9	49	-1				
RABAU	27.56	99.0	5	44	-1						10	21
CHARTERS TS.	28.89	134.9	5	54	-3	10	40	-4				
ZO-SE	31.16	353.8	6	19K	1						7	31
NANKING	32.44	350.3	6	30K	1							
MUNDARING	32.81	193.7	6	30K	-2							
KUNMING	32.93	321.0	6	34A	1	11	49	2				
ADELAIDE	37.08	161.0	7	8A	0	12	49	-2			8	30 PP
BRISBANE	38.17	137.7	7	20	2	13	7	-1				
MATUSIRO	38.43	17.4	7	19	-1	13	7	-5			9	10 PPP
PEKING	40.66	349.7	7	39	1	13	46	1				
SHILLONG	40.80	311.1	7	35A	-4							
LANCHOW	40.90	333.6	7	41	1						13	32
RIVERVIEW	41.68	146.4	7	45	-2	14	3	3			17	16 SS
CANBERRA	41.69	149.9	7	47K	0	14	1	1	7	57	9	25 PP
MELBOURNE	41.92	156.0	7	50	1						8	0
CHANGCHUN	43.67	0.4	8	2A	-1						14	37
LHASA	43.73	315.4	8	5A	2	13	43	-47				
VISHAKHAPTNM	44.55	295.6	8	10	0						10	11
CHATRA	45.05	309.4	8	15A	1							
TARRALEAH	46.34	157.9									8	40
MOORLANDS	46.74	157.3	8	37	10						9	11
ULAN-BATOR	50.26	344.3	8	52	-3							
LAHORE	57.18	308.3	9	42	-4	17	25	-11				
KARAPIRO	59.88	135.0	10	5	1							
WARSAK DAM	60.29	309.9	10	7	0							
CHATEAU	60.45	136.3	10	12	4							
WELLINGTON	60.91	138.7	10	11	0							
TUAI	61.40	135.3	10	11	-4							
QUETTA	62.66	304.3	10	20	-3	18	46	-1	10	33	12	41 PP
SHIRAZ	74.74	300.7	11	36K	-2	21	7	-3				
TEHERAN	76.67	306.7	11	51	2							
CAPE HALLETT	77.56	167.1	11	54	0							
TANANARIVE	78.02	250.8	11	57A	1	22	43	57			12	49
MAWSON	79.61	200.1	12	5A	0				12	20	12	26 *SP
HAWAII V.OB	80.42	70.4	12	11	2							
SCOTT BASE	80.89	171.8	12	12	0							
TIFLIS	82.63	312.0	12	0	-21							
COLLEGE	88.87	25.3	12	48	-3						17	46
KSARA	89.20	303.6	12	55	2							
JERUSALEM	89.74	301.6	12	56A	0							
SOUTH POLE	89.97	180.0	12	57	0							
KAJAANI	93.18	334.1	13	12	0							
SODANKYLA	93.22	337.4	13	10	-2							
NURMIJARVI	95.07	330.7	13	19	-1							
KIRUNA	95.47	338.3	13	20	-2							
TROMSOE	95.56	340.2	13	21	-1							
BULAWAYO	95.90	249.9	13	24A	0						24	5
UMEA	96.47	334.4	13	26	0							
SKALSTUGAN	99.94	335.2	13	40	-2							
RACIBORZ	100.69	321.1	13	46	0							
BRATISLAVA	101.83	319.4	13	30	-21						18	6 PP
PRUHONICE	103.00	321.6	13	55	-1						15	15 PP
COLLMBERG	103.57	323.2	13	58	0						18	17 PP
KASPERSKE H.	103.84	320.9	14	0	0						18	20 PP
LJUBLJANA	104.06	317.7	13	47	-14						18	20 PP
JENA	104.53	323.1	14	2	-1						18	24 PP
STUTTGART	106.65	321.5	13	47	777							
BENSBERG	107.14	324.1	13	41	777						18	41 PP
ISOLA	109.66	317.5	14	22	777						19	8 PP
HUNGRY HORSE	110.16	37.5	18	30	3							
EUREKA	112.15	46.9	18	34	3							
BOZEMAN	113.14	39.2	18	36	3							
FLAMING GRGE	116.27	43.3	18	42	3							
TUCSON TELE.	118.57	52.7	18	47	3							
RAPID CITY	118.80	37.7	18	46	2							
LAWRENCE	126.60	38.8	19	0	1							
WICHITA MTS.	126.72	45.0	19	1	1						20	55 PP
FAYETTEVILLE	128.98	41.1	19	5K	1							

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1961

PAGE 703

SHAWINIGAN	131.15	16.2	19 10	2	
OTTAWA	131.28	19.3	19 9	1	
MORGANTOWN	134.52	27.1	19 8	-6	22 41 PKS
PALISADES	135.78	20.5	18 21	-56	38 3 SS
CHAPEL HILL	137.91	29.4	19 25	4	22 52
COLUMBIA	138.37	33.2	19 23	1	
SAN JUAN	158.79	30.1	19 57	4	20 31
LA PAZ	159.14	142.6	19 59	5	

JULY 26 9.H 19.M 6.S EPICENTRE -37.42 177.04 DEPTH= 149.KM

A=-0.79512 B= 0.04112 C=-0.60505 D= 0.0516 E= 0.9987
G= 0.6042 H=-0.0312 K=-0.7962 HT= -0.7

DEPTH OF FOCUS= 0.018R

SE= 2.77

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
KARAPIRO	1.29	246.3	0	29	1							
TUAI	1.38	176.4	0	30	1	0	51	0				
AUCKLAND	1.87	286.3	0	37	3	1	4	4				
CHATEAU	2.13	213.1	0	38K	1	1	2	-4				
ONERAHI	2.71	306.6	0	44	0	1	24	6				
WELLINGTON	4.24	203.8	0	59K	-5	1	48	-6				
COBB RIVER	4.96	221.1	1	11	-3	2	9	-2				
KAIMATA	6.68	218.5	1	34	-3	2	46	-6				
GEBBIES PASS	7.11	206.7	1	38	-4	2	54	-8				
RAOUL ISLAND	9.20	29.0	2	5	-5	3	39	-13				
ROXBURGH	9.92	213.3				4	8	-1				
MACQUARIE I.	21.11	210.2	4	35	1							
RIVERVIEW	21.33	271.9	4	38K	2	8	43	24			5	8 PP
CANBERRA	22.65	266.8	4	51K	2	8	57	15			5	23 PP
BRISBANE	22.74	289.0	4	50	0	8	48	5				
FORT NELSON	23.28	247.0	4	56	1						5	29 *SP
MOORLANDS	23.37	248.3	4	57A	1						5	29 SP
TARRALEAH	23.90	248.7	5	2	1						5	40 PP
MELBOURNE	25.34	259.2	5	15	1						5	50
AFIAMALU	25.45	26.0	5	19	4	9	51	22				
ADELAIDE	30.88	262.8	6	4K	0						14	9
CAPE HALLETT	35.14	183.6	6	42	1							
PORT MORESBY	38.80	308.3	7	12K	0	12	56	-2			7	58
RABAUL	40.14	319.4	7	20	-3							
SCOTT BASE	40.78	183.3	7	30A	2	13	28	1			9	5 PP
DARWIN	48.15	288.8	8	26	-1							
BYRD STATION	48.86	168.0	8	43	11						9	48 PP
MUNDARING	49.56	257.2	8	36A	-1							
SOUTH POLE	52.77	180.0	9	3	1	16	23	7				
HONOLULU	62.92	26.1	10	10	-3							
KIPAPA	63.06	26.1	10	11	-2							
MAWSON	64.28	202.8	10	19K	-2						10	55 PCP
ARGENTINE I.	67.18	156.4	10	39	-1							
LEMBANG	69.55	277.2	10	53A	-1							
MATUSIRO	81.90	329.3	12	2	-2	21	57	-6			27	24 SS
PASADENA	93.26	48.7	12	57	-2							
LICK	93.49	44.5	12	58A	-2							
MINERAL	95.66	42.4	13	8	-1							
BOULDER CITY	96.51	49.3	13	13	0						17	6 PKP
TUCSON	96.56	54.3	13	14	0							
EUREKA	98.18	46.0	13	18	-3						29	1 PKKP
FLAMING GRGE	102.96	48.2	17	3	201							
COLLEGE	105.61	14.8	14	1	777	24	1	-17				
WICHITA MTS.	106.18	58.6	14	2	777						18	19 PP
QUETTA	122.65	285.0	18	37	-1							
PALISADES	126.31	62.6									21	11 PP
OTTAWA	126.56	56.9	18	44A	-1							
SHAWINIGAN	128.87	56.3	18	49A	-1							
TIFLIS	143.30	292.0	19	12	-4							
APATITY	143.59	337.4	20	12	55							
TROMSOE	145.63	346.6	19	18	-3							
SODANKYLA	145.67	340.2	19	19A	-2							
KIRUNA	146.84	344.0	19	22A	-1							
MOSCOW	147.24	317.1	19	21	-2							
KAJAANI	147.61	335.3	19	24	0							
JERUSALEM	148.23	271.3	19	27	2							
KSARA	148.37	275.3	19	29	4							

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1961

PAGE 704

PULKOVO	149.17	327.2	19 29	3	
UMEA	150.10	339.5	19 28	1	19 50
HELWAN	150.60	265.4	19 32	4	20 15
NURMI JARVI	151.03	331.7	19 33A	4	
SKALSTUGAN	152.23	345.4	19 35A	4	
UPPSALA	153.97	336.1	19 48K	15	
COLLMBERG	162.09	325.9			20 29
VIENNA-H.	162.21	313.6	20 33	50	
PRUHONICE	162.22	320.5	20 31	48	21 8
JENA	162.98	327.1	20 33	49	
KASPERSKE H.	163.25	319.6	20 36	52	21 13
BENSBERG	164.66	335.1	20 41	56	
STUTTART	165.58	325.7	20 46	60	21 27 PKP2
BESANCON	168.17	328.9	20 57	69	

JULY 27 18.H 35.M 39.S EPICENTRE 34.63 25.14 DEPTH= 0.KM

A= 0.74651 B= 0.35039 C= 0.56564 D= 0.4249 E=-0.9052
G= 0.5120 H= 0.2403 K=-0.8247 HT= 0.3

SE= 2.73

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ATHENS	3.53	341.4	0	57A	0	1	35	-5			1	47 SG
HELWAN	7.07	130.5	1	46A	-1	3	1	-8				
ISTANBUL UN.	7.09	24.3	1	47	0						2	57
ISTANBUL KA.	7.14	24.6									3	10 PG
SOFIA	8.18	350.6	2	1	-1						4	4
MESSINA	8.51	297.5	2	5	-2						3	35
TARANTO	8.56	315.3									3	50
JERUSALEM	8.91	105.8	2	8	-4	3	46	-9				
KSARA	8.93	92.1	2	10	-3	3	42	-13			4	41 SG
TITOGRAD	9.05	331.1				3	48	-11			4	25
BUCHAREST	9.81	4.0	2	24	-1						5	49
BELGRADE	10.80	341.9									5	16
ROME	12.31	309.9									5	36
SIMFEROPOL	12.40	31.1	3	1	1							
TRIESTE	14.02	325.1									5	44
FLORENCE X.	14.11	314.5									5	41
SOTCHI	14.40	47.3	3	34	7							
PADOVA	14.79	320.7									6	11
LWOW	15.20	357.2	3	43	6							
MONACO	16.44	308.8	3	52	-1							
KASPERSKE H.	16.83	332.9	3	59A	1						5	32
ISOLA	16.90	309.8	3	58	-1						4	13 PP
CHUR	16.96	320.7	4	3	3							
TIFLIS	16.98	59.6	3	58	-2							
PRUHONICE	17.20	336.3	4	4A	1						5	50
PRAGUE	17.32	336.3									4	23
STUTTART	18.38	325.0	4	16	-1							
COLLMBERG	18.84	335.9	4	24	1	8	5	14			5	36
STRASBOURG	18.99	322.5	4	25	0							
JENA	19.04	332.9	4	25	-1	7	54	-1			5	34
BESANCON	19.14	317.0	4	26	-1							
MAKHACH-KALA	19.27	57.8				8	5	4				
HALLE	19.37	334.5	4	28	-1	7	56	-7				
GARCHY	20.84	314.0	4	44	-1							
BENSBERG	20.89	326.8	4	43	-3						5	32
BAGNERES	21.16	300.9	4	49	0						5	15
MUNSTER	21.42	329.3	4	50	-1							
TEHERAN	21.46	79.5	4	52	0	8	49	3				
PARIS	21.95	317.1	4	57	0							
ALMERIA	22.50	283.7	5	3	1						6	18
MOSCOW	22.79	18.4	5	3	-2							
GRANADA	23.39	284.6	5	13K	2	9	46	25				
FOLINIERE	23.64	314.5	5	12	-1							
SHIRAZ	23.67	94.5	5	16	3	9	25	-1			5	48 PP
TOLEDO	23.76	291.3	5	14	0						5	46 PP
PULKOVO	25.38	6.1	5	30	0	9	47	-8				
UPPSALA	25.71	351.2	5	31	-2							
NURMI JARVI	25.90	359.5	5	30	-5							
UMEA	29.38	355.6	6	3	-3							
SKALSTUGAN	30.06	348.5	6	8	-5							
SVERDLOVSK	32.69	36.2	6	33	-3							
SODANKYLA	32.80	1.1	6	32	-5							

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1961

PAGE 705

APATITY	33.31	5.8	6 36	-5
KIRUNA	33.36	356.7	6 37	-4
QUETTA	35.39	85.3	6 58	-1
LAHORE	41.00	80.0	7 51	5
KIMBERLEY	63.04	180.4	10 31	0
YAKUTSK	66.37	29.9	10 59	7
SHAWINIGAN	70.67	313.6	11 21	2
WESTON	71.88	309.2	11 27K	1
COLLEGE	80.68	357.0	12 16	0
MATUSIRO	85.69	48.0	12 45	3
RAPID CITY	88.66	325.6	12 15	-41
HUNGRY HORSE	89.71	334.1	13 0	-1
WICHITA MTS.	93.24	316.7	13 19	2
SOUTH POLE	124.45	180.0	18 59	-2

JULY 28 O.H 34.M 22.S EPICENTRE 27.11 126.59 DEPTH= 169.KM

A=-0.53139 B= 0.71571 C= 0.45320 D= 0.8029 E= 0.5961
G=-0.2702 H= 0.3639 K=-0.8914 HT= 2.7

DEPTH OF FOCUS= 0.022R

SE= 1.71

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ILAN	4.94	243.0	0	40	-34	1	22	-49				
TAIPEI	5.01	246.8	1	18	3	2	14	1				
HWALIEN	5.47	236.3	1	19	-2	2	2	-21				
TAICHUNG	6.09	242.4	1	30	1							
ZO-SE	6.19	311.3	1	30A	0							
HSINKONG	6.19	231.0	1	27	-3							
ALISHAN	6.34	237.0	1	29	-3							
NANKING	8.40	307.8	2	1A	1							
HONG KONG	12.26	249.7	2	49	-1	5	16	12				
CANTON	12.66	254.5	3	0	5							
MANILA	13.40	203.7	3	10	6	5	38	8				
MATUSIRO	13.63	43.5	3	4	-3	5	42	7			3	43
TUKUBASAN	14.65	48.3	3	19	-1							
PEKING	15.53	328.7	3	33	2	6	32	14				
SIAN	16.78	299.4	3	48K	2	6	56	10			4	19 *SP
MIZUSAWA	17.06	41.7	4	17	27	7	14	22				
CHENG TU	20.08	285.5	4	21K	-1	7	55	2			4	49 *SP
LANCHOW	21.31	300.4	4	35K	1	8	23	7			5	7 *SP
KUNMING	21.50	270.1	4	38	2	8	29	10			5	9 *SP
GUAM	21.73	125.1	4	38	0				5	8	6	3 PP
ULAN-BATOR	25.86	328.7	5	16	-2							
LHASA	31.31	283.1	6	7	1							
YAKUTSK	34.97	2.6	6	40	2							
PETROPAVLOVK	35.16	33.8	6	38	-1							
RABAU	39.74	137.7	7	17	-1							
PORT MORESBY	41.41	148.4	7	30	-1							
LAHORE	45.43	288.6	8	3	-1							
WARSAK DAM	47.42	292.4	8	20	1							
TASHKENT	48.65	302.4	8	29	0							
STALINABAD	49.19	298.8	8	35	2							
CHARTERS TS.	50.64	155.8	7	44	-60							
QUETTA	51.92	288.3	8	53	0	16	3	2			10	3 PCP
SVERDLOVSK	54.68	322.0	9	13	-1							
ADELAIDE	62.80	168.8	10	10K	0							
COLLEGE	63.95	28.3	10	16	-1						13	48 PP
SHIRAZ	64.15	291.5	10	17A	-2	19	51	71	10	36		
CANBERRA	65.60	160.0	10	28	0							
APATITY	66.45	335.3	10	32	-1							
MOSCOW	67.49	322.2	10	39	-1							
SODANKYLA	69.01	335.9	10	48	-1							
SOTCHI	69.72	309.3	10	53	0							
KAJAANI	69.72	332.4	10	52	-1							
PULKOVO	70.02	327.6	10	54A	-1							
TROMSOE	70.74	339.3	10	58	-2							
KIRUNA	71.03	337.3	11	0	-1							
SITKA	71.88	34.7	11	7	1							
NURMI JARVI	72.38	329.5	11	9A	0							
UMEA	72.85	333.5	11	10	-2							
SIMFEROPOL	73.03	312.1	11	11	-2							
RESOLUTE	74.97	10.5	11	24	0							

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1961

PAGE 710

LANCHOW	81.48	312.6	12 19	-1	22 36	4	
ULAN-BATOR	85.90	323.9	12 43	0	23 2	-14	
SHILLONG	85.99	298.6	12 43A	0	23 12	-5	16 14 PP
YAKUTSK	86.14	343.1	12 40	-4	23 10	-8	
BERKELEY	86.59	48.1	12 44A	-2	23 9	-14	24 24 PPS
LICK	86.79	48.8	12 44A	-3			13 16
SHASTA	87.79	45.6	12 51	-1			
FRESNO	87.86	50.0	12 52	0			
PASADENA	87.97	52.9	12 50	-3	23 42	6	23 20 SKS
MINERAL	88.17	46.2	12 51A	-3			
LHASA	88.24	302.0	12 57	3	23 42	4	23 24 SKS
RENO	89.05	47.5	12 59	1			
COLLEGE	90.16	17.4	12 58	-5			
VISHAKHAPTAM	90.60	288.4	13 7A	2	23 41	-19	16 37 PP
BOULDER CITY	91.21	52.4	14 7	59			
EUREKA	91.73	48.8	13 7	-4			
TUCSON	92.94	57.0	13 15	-1			
GLEN CANYON	94.00	52.4	13 19	-2			
DEHRA DUN	99.08	298.9					18 8
BOMBAY	100.43	286.4					20 30
WICHITA MTS.	103.43	57.7	14 2	-2	24 40	-3	18 21 PP
FRUNSE	104.86	310.5					17 39
ANDIJAN	106.09	308.1					17 46
STALINABAD	108.43	305.3					18 23
TASHKENT	108.49	308.2	19 0	777			
KHEYS	111.74	350.4					19 17 PP
LA PAZ	114.72	119.0					19 50 PP
SVERDLOVSK	115.00	324.6	18 47	4			
SHIRAZ	120.67	293.7	18 55	1	25 56	4	23 29 PKS
OTTAWA	121.77	47.9	18 53	-3			
BREBEUF	123.23	47.6	18 59	0			
PALISADES	123.41	52.9			25 59	-2	20 34 PP
APATITY	123.48	340.8	19 8	9			
SHAWINIGAN	123.68	46.2	18 59	-1			
BULAWAYO	124.23	228.0	19 4	3			
MAKHACH-KALA	124.69	309.6					21 10 PP
SODANKYLA	125.62	342.6	19 3	-1			
TROMSOE	125.84	347.1	18 59	-5			
GORIS	125.89	305.4					20 56
CARACAS	126.61	90.8	19 11	6	26 13	2	
TIFLIS	126.82	308.3	19 10	4			
KIRUNA	126.92	345.2	19 3	-3			21 0 PP
MOSCOW	127.66	326.9	19 11	4			
PULKOVO	129.11	333.8	19 10	0			
SAN JUAN	129.11	81.4	19 11	1			
SOTCHI	130.19	311.5	19 19	7			
NURMIJARVI	130.90	336.9	19 8	-6			22 38 PKS
SKALSTUGAN	132.34	345.5	19 17	1			
SIMFEROPOL	133.70	314.7	19 28	9			
UPPSALA	133.84	339.6					22 48 PKS
LWIRO	134.50	246.9	19 24	4			
KSARA	134.81	299.1	19 27	6			22 7 PP
LWOW	137.73	325.3					19 30
ISTANBUL KA.	138.47	311.2					22 33 PP
COPENHAGEN	138.83	338.9	19 39	11	27 3	26	22 59 PKS
HELWAN	139.07	294.0	19 36	7			22 59
BUCHAREST	139.19	317.1	19 43	14			24 41
KRAKOW	139.73	327.9					22 48
ABERDEEN	141.07	351.2	19 43K	11			29 18 SKKS
COLLMBERG	142.04	334.2	19 42	8			27 48 PP
PRAGUE	142.34	331.8					19 54
PRUHONICE	142.35	331.6	19 34	-1			22 58 PP
BRATISLAVA	142.36	327.5	19 35	0			
BELGRADE	142.51	320.8	19 34K	-1			23 49 PKS
VIENNA-H.	142.68	328.1	19 35	0			23 23 PKS
JENA	142.90	334.9	19 30	-5			22 36 PP
DURHAM	143.30	349.7	19 46	10			22 50 PP
KASPERSCHE H.	143.40	331.3	19 35	-1			22 35 PP
DE BILT	144.18	341.6	19 48	10			43 23 SS
BENSBERG	144.52	338.8	19 35K	-3			23 2 PP
LJUBLJANA	145.08	326.8	19 38	-1			22 58 PP
HEIDELBERG	145.24	335.8	19 38	-2			
STUTTGART	145.52	334.6	19 39	-1			20 46
KARLSRUHE	145.68	335.7	19 43	3			
TRIESTE	145.75	326.9	19 41	1			42 5 SS
KEW	146.18	346.6	19 41	0			23 1 PP
STRASBOURG	146.27	335.8	19 44	3			42 12 SS
PADOVA	146.87	328.2					20 3
BASLE	147.20	334.9	19 46	3			

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1961 PAGE 714

GLEN CANYON	73.15	54.9	11 26	0			
SIMFEROPOL	73.29	316.7	11 27	0	20 51	1	
LARAMIE	73.63	48.3	11 30	1			
COPENHAGEN	73.75	334.9	11 29	-1			
LWOW	74.29	325.4	11 33	0	21 4	3	11 50 PCP
IASI	74.75	321.7	11 40	4			12 2
KRAKOW	75.75	327.7	11 42	1			12 27
CHORZOW	75.92	328.3	11 42	0			
RACIBORZ	76.39	328.6	11 46A	1			13 8
COLLMBERG	77.25	332.1	11 50A	0			12 1 PCP
HALLE	77.44	332.8	11 51	0			14 40 PP
BUCHAREST	77.53	320.7	11 51	0			15 3
PRUHONICE	77.82	330.5	11 49A	-4			
JENA	78.04	332.7	11 54	0			12 27
MUNSTER	78.41	335.4	11 57	1			
ADELAIDE	78.45	186.4	11 56K	-1			
CANBERRA	78.52	177.8	11 57	0			
VIENNA-H.	78.58	328.5	11 57	0			
BENSBERG	79.43	335.2	12 1A	-1	12 13		12 17 *SP
SOFIA	80.13	321.2	12 7	1			18 55
KSARA	80.32	307.7	12 9	2			
STUTTGART	80.66	332.9	12 9	1			
KEW	81.06	339.7	12 11	0			
LJUBLJANA	81.11	328.3	12 11	0			
STRASBOURG	81.32	333.6	12 13	1			
JERUSALEM	82.18	306.7	12 18A	2			
WICHITA MTS.	82.19	48.9	12 16	0			17 9
PARIS	82.73	336.9	12 20	1			12 28 PCP
BESANCON	83.07	334.1	12 21	0			
ATHENS	83.67	318.0	12 19K	-5			
OTTAWA	83.85	28.4	12 24	-1			
GARCHY	83.94	335.9	12 21	-4			12 33 PCP
FLORENCE X.	84.27	329.1	12 28	1			
BREBEUF	84.47	27.0	12 28	0			
ISOLA	85.42	332.0	12 33	0			
MONACO	85.69	331.5	12 34	0			
HELWAN	85.84	307.9	12 36	1			12 50
MORGANTOWN	87.22	34.0	12 42K	0			
BANGUI	113.09	301.0	16 50	-101			17 18
SCOTT BASE	121.77	175.0	18 48	0			20 56
MAWSON	127.05	208.5	18 58K	0	19 11		
BYRD STATION	133.23	166.2	19 10	0			
SOUTH POLE	133.35	180.0	19 9	-1			

JULY 29 16.H 27.M 18.S EPICENTRE -23.82-176.07 DEPTH= 0.KM

A=-0.91369 B=-0.06272 C=-0.40154 D=-0.0685 E= 0.9977
G= 0.4006 H= 0.0275 K=-0.9158 HT= 3.7

SE= 2.62

	DELTA DEG.	AZ. DEG.	P			S O-C			*PP		SUPP.	
			M	S	O-C	M	S	S	M	S	M	S
RAOUL ISLAND	5.66	196.6	1	21	-6						5	11
AFIAMALU	10.66	23.1	2	35	-2	4	29	-9				
KARAPIRO	15.79	205.1	3	44	-1							
TUAI	16.01	199.5	3	44	-4	6	24	-23				
CHATEAU	16.91	202.9	3	54	-5							
GEBBIES PASS	21.90	202.4				8	27	-27				
HONIARA	27.00	298.0	5	45	0							
BRISBANE	28.28	256.1	5	53	-4	10	54	11				
CANBERRA	32.31	241.2	6	29	-4						9	20 PCP
CHARTERS TS.	35.07	268.6	6	56	-1	12	24	-5				
MOORLANDS	35.58	229.5	7	4	3						9	26 PCP
MELBOURNE	35.99	237.9	7	0	-4				7	11		
PORT MORESBY	37.91	285.9	7	19	-2	13	1	-12				
ADELAIDE	40.62	243.5	7	39K	-4							
HONOLULU	48.14	22.7				15	57	15				
KIPAPA	48.28	22.8	8	46	1							
CAPE HALLETT	49.13	185.5	8	48K	-3	15	48	-8	8	53		
DARWIN	51.48	273.0	9	6	-3							
SCOTT BASE	54.71	184.4	9	30K	-3	17	9	-4			10	33 PCP
PERTH	59.88	245.8									10	27
BYRD STATION	61.09	170.4	11	13	55							
MATUSIRO	73.92	323.1	11	38K	-1	21	2	-8			25	58 SS
LEMBANG	74.77	269.2	11	19	-25							
ARGENTINE I.	77.23	156.4	11	52	-5							

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1961		PAGE 715							
MAWSON	79.06	199.5	12 4A	-4			12 15	12 9	PCP
BERKELEY	79.49	40.5	12 9	-1	22 18	7		26 54	SS
LICK	79.51	41.2	12 19A	9					
PETROPAVLOVK	79.61	344.8	12 10	-1	22 13	1			
PASADENA	79.68	45.6	12 9	-2	22 19	6		27 12	SS
Y.-SAKHLINSK	79.71	332.7	12 11	0	22 18	5			
FRESNO	80.27	42.7	12 15	1					
ZO-SE	81.18	309.5						12 14	
SHASTA	81.28	38.3	12 20	1					
MINERAL	81.50	39.0	12 20A	-1					
HONG KONG	81.84	298.6	12 22	0	22 40	5			
VLADIVOSTOK	82.00	324.3	12 24A	1					
RENO	82.03	40.5	12 29	6					
CANTON	82.89	298.9	12 29A	1					
BOULDER CITY	82.96	45.8	12 29	1					
NANKING	83.41	309.1	12 30A	0					
TUCSON	83.58	50.7	12 33	2					
TUCSON TELE.	83.71	50.7	12 33	1					
EUREKA	84.32	42.4	12 31	-4					
GLEN CANYON	85.67	46.5	12 43	1					
CHANGCHUN	86.10	321.7	12 43A	-1	23 19	1			
MAGADAN	87.42	343.8	12 51	1					
SALT LAKE C.	87.63	43.2	12 53	2					
PENTICTON	88.42	33.1	11 19	-96					
FLAMING GRGE	89.28	44.1	12 59	0					
PEKING	89.49	314.7	13 0A	0	23 44	-6			
BUTTE	90.19	38.6	13 3	0					
HUNGRY HORSE	90.73	36.1	13 5	-1					
COLLEGE	91.07	11.7	13 7	-1				17 11	PP
SIAN	91.64	306.8	13 11A	1					
LARAMIE	91.93	45.3	13 13	1					
KUNMING	92.43	296.3	13 14K	0					
WICHITA MTS.	93.68	53.7	13 19	-1	24 32	5		23 55	SKS
CHENG TU	93.76	301.8	13 20A	0	24 31	3			
PAOTOW	93.83	312.8	13 21A	1					
RAPID CITY	94.82	43.7	13 26	1					
LANCHOW	96.18	306.6	13 31A	0					
SHILLONG	101.66	292.8	13 53	-3					
PALISADES	114.11	54.1	15 8	-213	25 28	-1		19 54	PP
STALINABAD	123.68	301.5	19 11	11					
KIMBERLEY	124.01	202.2	18 59	-1					
QUETTA	124.10	291.3	19 0	-1					
SVERDLOVSK	127.72	324.5	19 6	-2					
BULAWAYO	130.13	210.9	19 12K	0					
SODANKYLA	134.20	348.0	19 12	-8					
KIRUNA	134.81	351.3	19 21	0				22 52	PKS
BROKEN HILL	135.03	214.7	19 21K	0					
SHIRAZ	136.46	288.6	19 23	-1				22 48	
UMEA	138.57	349.1	19 21	-7					
PULKOVO	139.59	339.7	19 28	-2					
MOSCOW	139.65	331.0	19 29	-1					
SKALSTUGAN	139.86	354.2	19 23	-7					
NURMI JARVI	140.60	344.0	19 23	-9					
UPPSALA	142.73	348.6	19 30	-5					
LWIRO	144.55	226.4	19 36	-2					
GOTEBORG	145.65	352.3	19 40	0					
COPENHAGEN	147.56	351.0	19 43	0					
SIMFEROPOL	147.65	318.1	19 52A	8					
WARSAW	148.76	339.6	19 49	4					
DURHAM	148.81	6.2	19 52A	7				20 7	PKP2
KSARA	150.39	296.9	19 46	-2				23 32	PP
KRAKOW	150.99	338.5	19 54	5				20 36	
CHORZOW	151.08	339.8	19 55	6				20 23	
JERUSALEM	151.28	293.0	20 6A	17					
RACIBORZ	151.51	340.5	19 57K	7				21 11	
HALLE	151.68	349.4	19 49	-1				19 56	PKP2
COLLMBERG	151.68	348.0	19 50	0				23 35	PP
MUNSTER	151.75	355.2	19 57	7					
KEW	152.20	5.7	19 57	6				20 7	PKP2
JENA	152.29	349.6	19 50	-1				23 38	PP
PRUHONICE	152.60	345.0	19 58A	7					
BUCHAREST	152.60	324.0	20 9	18				22 52	
BENSBERG	152.79	355.5	19 58	7				20 20	
ISTANBUL KA.	152.83	315.3	19 53	2					
ISTANBUL UN.	152.90	315.3	19 57	5				20 46	
BRATISLAVA	153.54	340.0	19 52	0				20 1	PKP2
KASPERSKE H.	153.62	345.6	19 52A	-1				20 11	PKP2
VIENNA-H.	153.69	341.0	19 53	0					

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1961

PAGE 717

AUGUST 1 5.H 39.M 53.S EPICENTRE -9.96 160.73 DEPTH= 17.KM

A=-0.92990 B= 0.32518 C=-0.17190 D= 0.3301 E= 0.9439
G= 0.1623 H=-0.0567 K=-0.9851 HT= 6.5

SE= 2.82

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
HONIARA	0.93	304.7	0	15	-3							
RABAU	10.24	303.4	2	29	0							
PORT VILA	10.67	137.1	2	33A	-2	4	36	0				
KOUMAC	11.08	162.4	2	39K	-2	4	45	-1				
PORT MORESBY	13.40	271.2	3	11	-1	5	51	9				
NOUMEA	13.44	156.6	3	12A	0	5	43	0				
CHARTERS TS.	17.21	232.5	3	59K	-2	7	19	8				
BRISBANE	18.88	202.3	4	20	-2	7	54	5				
RIVERVIEW	25.33	198.9	5	26A	-1	9	48	-2	5	34	6	6 PP
AFIAMALU	27.17	101.0	5	43A	-2	10	7	-14				
CAMBERRA	27.41	201.2	5	46A	-1	10	24	-1	5	51	6	24
RAOUL ISLAND	27.71	136.8	5	52	3							
GUAM	28.17	325.4	5	53	0							
DARWIN	29.42	262.5	6	3	-2	10	5	-52				
KARAPIRO	30.87	156.8	6	16	-2						9	14
MELBOURNE	31.16	204.6	6	20	0				6	26		
CHATEAU	31.98	158.0	6	26	-1							
ADELAIDE	31.99	215.5	6	25A	-2	11	35	-2				
TUAI	32.26	155.5	6	28	-2							
COBB RIVER	32.76	163.1	6	37	3							
WELLINGTON	33.56	160.7	6	39K	-2	11	59	-3			7	55
KAIMATA	33.76	165.7	6	50	7							
MOORLANDS	34.46	197.8	6	48A	-1	12	22	6				
TARRALEAH	34.56	198.8	6	49A	-1	12	24	7				
FORT NELSON	34.86	197.3	6	52K	0	12	26	4				
GEBBIES PASS	35.17	164.9	6	53	-2							
ROXBURGH	36.15	169.8	7	0	-6						12	29
MACQUARIE I.	44.44	181.5	8	11	-1							
MANILA	46.30	301.3	8	28	1	14	54	-18				
MUNDARING	46.56	235.2	8	27	-2	15	9	-7				
PERTH	46.86	235.3	8	40	9	15	30	10			10	29 PP
BAGUIO CITY	47.59	303.1	8	34	-3	14	58	-32				
MERA	48.83	337.1	8	40	-6							
OMAESAKI	49.19	335.3	8	50	1							
AJIRO	49.23	336.5	8	50	1						10	46
SIOMISAKI	49.28	332.3									9	12
MISIMA	49.35	336.4	8	48	-2							
YOKOHAMA	49.35	337.2	8	50	0						22	41
SHIZUOKA	49.43	335.8	8	52	1						3	20
TOKYO C.M.O.	49.53	337.5	8	52	0	15	55	-3				
HONGO	49.55	337.5	8	29	-23						24	3
OWASE	49.60	333.1	8	52	0							
HUNATU	49.75	336.4	8	51	-2						11	1
KAKIOKA	49.86	338.2	8	51	-3							
TUKUBASAN	49.88	338.1	8	50A	-4	15	59	-3	9	5	11	42 PPP
MITO	49.89	338.6	8	53	-1							
KOHU	49.98	336.4	8	54	-1							
TITIBU	50.05	337.0	8	59	3							
KUMAGAYA	50.08	337.4	8	54	-2						11	0
KAMEYAMA	50.14	333.9	8	56	0	16	3	-3				
IIDA	50.14	335.6	8	51	-5							
NAGOYA	50.20	334.6	9	0	3	16	5	-2				
UTUNOMIYA	50.26	338.1	9	2	5	16	3	-5				
SUMOTO	50.41	332.1	9	0	2						17	33
KOTI	50.42	330.3	8	59K	0	16	4	-6				
MAEBASI	50.42	337.3	8	53	-6							
GIHU	50.48	334.5	9	0	1							
TAWU	50.55	309.8	9	5	5							
ABUYAMA	50.55	333.1	8	55A	-5							
OI WAKE	50.56	336.8	9	3	3	16	13	1				
KOBE	50.57	332.6	9	1	1							
HI KONE	50.59	334.0	8	58	-2	16	11	-1				
KYOTO	50.61	333.3	9	1	1						11	30
SHIRAKAWA	50.64	338.8	9	1	1							
MATUMOTO	50.72	336.2	9	3	2							
MATUSIRO	50.88	336.6	8	57A	-5	16	11	-5			10	52 PP
HWAL IEN	50.96	312.0	9	4	1						9	52
TSURUGA	50.99	334.1	9	4	1							
NAGANO	50.99	336.6	9	3	0							
HONOLULU	51.00	52.2	9	1	-2	16	14	-4				

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1961		PAGE 718						
MATUYAMA	51.02	329.9	9	5	2			
KIPAPA	51.12	52.1	9	3	-1			
KUMAMOTO	51.28	327.3	9	5	0			
ALISHAN	51.30	311.0	9	9	4			
TAKADA	51.35	337.0	9	6	0			
SENDAI	51.43	340.0	9	2	-4	16	15 -9	
ISINOMAKI	51.44	340.5	9	4	-2	16	14 -10	
TOYOOKA	51.44	332.9	9	8	2	16	34 10	
YAMAGATA	51.60	339.5	9	4	-4			
NIIGATA	51.77	338.2	9	8	-1		15 8	
HUKUOKA	52.04	327.7	9	12	1	16	29 -3	
MIZUSAWA	52.14	340.7	9	11	-1	16	36 2	
AIKAWA	52.16	337.5	9	9	-3			
MATSUE	52.18	331.3	9	14	2			
TOMIE	52.18	325.6	9	9	-3			
HAWAII V.OB.	52.27	56.0	9	11	-2	16	38 2	
MIYAKO	52.34	341.7	9	12	-1			
SAKATA	52.37	339.4	9	12	-1			
LEMBANG	52.59	269.0	9	12	-3	16	36 -4	
MORIOKA	52.64	341.0	9	16	1			
AKITA	53.01	340.1	9	20	2	16	41 -5	
HATINOHE	53.28	341.8	9	18	-2			
DJAKARTA	53.45	269.7	9	13	-8			
AOMORI	53.78	341.3	9	21	-3			
URAKAWA	54.41	343.6	9	29	1			
HAKODATE	54.69	341.8	9	27	-3			
OBHIRO	55.01	344.3	9	34	1			
MORI	55.01	341.8	9	33	0	17	12 -1	
SAPPORO	55.66	342.9	9	36	-1	17	14 -7	
ZO-SE	55.72	318.6	9	35	-3	17	19 -3	
SUTTSU	55.75	341.8	9	40	2	17	24 2	
HONG KONG	55.77	305.6	9	37	-1	17	17 -6	
CANTON	56.83	305.9	9	43	-3	17	36 -1	
WAKKANAI	57.74	344.2	9	50	-2			
NANKING	57.90	317.9	9	51	-2			
Y.-SAKHLINSK	58.96	345.7	9	57	-4		12 1 PP	
VLADIVOSTOK	59.01	335.7	9	58	-3		12 7 PP	
CHANGCHUN	62.46	331.8	10	20A	-5	18	49 0	
CAPE HALLETT	62.57	176.7	10	24K	-1	19	1 10 10 29	
PETROPAVLOVK	62.76	358.6	10	23	-4		19 38 SCS 12 47 PP	
MEDAN	63.24	279.1	10	26	-4		19 4	
PEKING	64.60	323.4	10	36	-3	19	12 -4	
WILKES	65.69	199.9	10	41K	-5	19	30 1	
SIAN	65.90	314.5	10	43A	-4	19	24 -8	
KUNMING	66.37	303.0	10	47	-3	19	36 -2	
CHENG TU	67.75	308.9	10	53	-6	19	46 -8	
SCOTT BASE	67.94	178.6	10	59K	-1	19	40 -17	
PAOTOW	68.66	320.7	11	2A	-2	20	4 -1	
MAGADAN	69.74	354.6	11	7	-4			
LANCHOW	70.41	313.9	11	12A	-3	20	24 -2	
TOCKLAI	73.62	301.7	11	40A	6			
ULAN-BATOR	74.70	325.7	11	38	-2	21	5 -10	
SHILLONG	75.69	299.6	11	42A	-4	21	18 -8	
YAKUTSK	75.72	345.5	11	43	-3		16 22 PPP	
LHASA	77.69	303.3	11	55A	-2	21	45 -2	
CALCUTTA	77.84	295.7	12	15	17	22	48 59	
BYRD STATION	78.47	169.9	12	0	-2		13 20	
IRKUTSK	78.50	328.5	11	58A	-4	21	54 -2	
CHATRA	80.09	299.5	12	9	-1	22	10 -3	
SOUTH POLE	80.10	180.0	12	9	-1		15 11 PP 17 45	
BOKARO	80.47	296.3	12	13K	1	22	17 0	
VISHAKHAPTNM	81.23	289.7	12	20K	4	22	27 2	
MADRAS	83.15	284.4	12	29K	3	22	41 -3	
MAWSON	83.84	202.5				22	53 2	
COLLEGE	83.88	19.6	12	27	-3		15 38 PP 14 43 15 47 PP 31 34 SS	
TIKSI	84.13	350.3	12	28	-3		15 36 PP	
SITKA	84.70	29.5	12	32	-2	22	55 -5	
KODAIKANAL	85.21	281.2				23	0 -5	
UKIAH	85.61	49.2	12	37	-2			
SAN FRANCISCO	85.81	50.7	12	40	0			
BRANNER	85.92	51.1	12	39	-1			
BERKELEY	85.98	50.6	12	39A	-2	23	8 -4	
LICK	86.31	51.3	12	41A	-1			
VINEYARD	86.36	51.9	12	39	-3			
SHASTA	86.66	47.9	12	43A	-1			
CORVALLIS	87.11	44.0	12	45A	-1			
MINERAL	87.14	48.4	12	45A	-1			
FRESNO	87.59	52.2	12	47	-1			

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1961			PAGE 719							
VICTORIA	88.19	40.2	12	51	0					
RENO	88.26	49.5	13	1A	9					
PASADENA	88.26	55.1	12	50A	-2	23	40	6		16 30 PP
NEW DELHI	89.09	299.1	12	54K	-2	23	18	-23		16 12 PP
POONA	90.19	288.7	13	2A	1					
PENTICTON	90.81	40.1	13	1	-3					
EUREKA	91.14	50.2	13	4	-1	23	44	-16		16 36 PP
BOMBAY	91.22	288.9	13	7	1	23	36	-25		16 48 PPP
BOULDER CITY	91.33	53.9	13	5	-1					16 41 PP
SEMIPALATNSK	91.59	320.8	13	3	-4					16 43 PP
BANFF	93.78	38.8	13	15	-2					
FRUNSE	93.85	312.6	13	14	-4	23	47	-37		17 1 PP
TUCSON	93.93	58.1	13	18	0	24	1	-23		17 11 PP
GLEN CANYON	94.07	53.3	13	17	-2					17 2 PP
HUNGRY HORSE	94.22	41.8	13	17	-2	23	54	-33		
SALT LAKE C.	94.48	49.6	13	19	-1	23	57	-32		
BUTTE	94.81	44.3	13	21	-1	23	59	-33		
BOZEMAN	95.81	44.8	13	25	-2	23	59	-2		
FLAMING GRGE	96.35	49.7	13	28	-1					
CHIHUAHUA	97.48	62.3								24 21
TASHKENT	97.57	310.6	13	31	-4					19 36 PPP
ARGENTINE I.	97.89	162.5	13	36	0					17 32 PP
QUETTA	98.17	299.2	13	31	-6	24	10	-3		
RAPID CITY	101.20	46.9	13	50	-1				14 0	18 19 PP
TACUBAYA	102.67	72.3	14	1	3	24	44	9		18 7 PP
RESOLUTE	103.34	15.3	13	59	-1					
SVERDLOVSK	103.80	326.1	13	58	-4					18 13 PP
WICHITA MTS.	104.35	56.7	14	5	0	24	45	2		18 20 PP
VERA CRUZ	105.54	72.8								18 43 PP
ASHKABAD	105.79	306.6	14	11	777	24	51	2		25 30 SKKS
FAYETTEVILLE	107.97	55.3	18	48	777					26 20 SKKS
COMI TAN	109.07	76.2				26	51	108		
TEHERAN	111.43	304.4	19	5	32					
APATITY	112.83	340.6	18	45	9					
GORIS	115.07	308.9								19 43 PP
SODANKYLA	115.07	342.1	18	41	1					
TROMSOE	115.60	346.1	18	40	-1					
TIFLIS	115.87	311.6								19 43 PP
MOSCOW	116.49	328.0	18	48	5					19 48 PP
KIRUNA	116.53	344.3	18	42	-1	25	35	2		19 48 PP
KAJAANI	116.73	338.9	18	42	-1					
MORGANTOWN	118.80	50.2	18	55	7					20 16 PP
COLUMBIA	118.88	56.7	18	57	9					29 10 PKKP
UMEA	119.42	341.1	18	49	0					
NURMI JARVI	120.03	336.6	18	49	-1					
HUANCAYO	120.16	110.2								20 19 PP
WASHINGTON	121.14	50.5	18	52	0					20 30 PP
SKALSTUGAN	121.96	344.0	18	53	-1					
SIMFEROPOL	122.56	317.4	18	53	-2	25	59	5		20 32 PP
HERMANUS	122.72	217.7								30 20 PS
PALISADES	122.95	47.3	18	54	-1					20 30 PP
UPPSALA	123.10	338.8	18	55	-1					20 37 PP
CHINCHINA	123.97	90.7	19	0	2					20 42 PP
BULAWAYO	124.19	237.4	18	56	-2					
KSARA	124.32	304.2	18	58	0					20 48 PP
LA PAZ	124.98	118.2	19	0	1					20 50 PP
BOGOTA	125.44	91.4	19	6	6					20 51 PP
REYKJAVIK	125.89	1.4	19	2	1					
FUQUENE	125.90	90.4	19	9	8					20 56 PP
SIDA	126.26	359.3	19	13	11					
LWOW	126.54	326.4	18	51	-11					21 1 PP
GOTEBORG	126.67	339.7	19	1	-2					
WARSAW	126.70	330.3	19	2	-1	26	1	-5		21 2 PP
ISTANBUL KA.	127.41	314.7	19	3	-1					21 3 PP
ISTANBUL UN.	127.48	314.7								19 35
BUCHAREST	128.01	319.7								21 39
COPENHAGEN	128.04	337.8	19	11	6					21 8 PP
KRAKOW	128.57	328.6	19	17	11					21 13 PP
HALIFAX	128.58	39.7	19	6	0					
CHORZOW	128.90	329.3	19	16	9					21 17 PP
HELWAN	128.92	300.4	19	5	-2					21 16
RACIBORZ	129.43	329.5	19	13	5					21 16 PP
SOFIA	130.59	318.9	19	16	6					21 28 PP
BUDAPEST	130.60	326.4								21 35 PP
COLLMBERG	131.05	333.6								21 30 PP
ABERDEEN	131.06	347.7								21 29 PP
BRATISLAVA	131.20	328.2	19	11	0					21 35 PP
PRAGUE	131.27	331.6	19	34	22					21 21 PP

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1961										PAGE 721	
TANANARIVE	64.58	85.7									9 45
BANGUI	70.45	46.3	11 16	-2	20 32	1					
FUQUENE	73.94	308.3	11 36K	-3	21 30	19					
TRINIDAD	73.95	322.1	11 39	0	21 9	-2					
CHINCHINA	74.32	306.3	11 39K	-2	21 39	24				29 40 SSS	
GRENADA	75.36	322.3	11 48	1							
CARACAS	75.77	316.8	11 50	1	21 26	-5					
ST. VINCENT	76.26	323.1	11 55	3							
ROXBURGH	77.23	189.9			21 52	5					
DOMINICA	78.30	323.7	12 5	2							
GALERAZAMBA	79.36	309.3	12 22	13							
BALBOA HTS.	79.62	304.6	12 20	10							
ANTIGUA	80.16	324.0	12 15	2							
FORT NELSON	80.20	173.9			22 18	0					
ST. KITTS	80.64	323.2	12 17	1							
MOORLANDS	80.68	173.8	12 18K	2						12 40	
WELLINGTON	80.75	194.6	12 14	-2	22 29	5					
SAN JUAN	82.75	320.5	12 26	-1	22 43	-2				15 33 PP	
TUAI	82.82	196.9	12 41	14							
KARAPIRO	83.92	195.8	12 32	-1							
MELBOURNE	85.11	171.7	12 41	2	23 9	1					
MUNDARING	85.35	147.3	12 42	2							
ADELAIDE	87.29	166.3	12 51	1	23 30	1					
CANBERRA	87.87	174.7	12 55	3	23 38	3	13 5				
RIVERVIEW	89.45	176.4	13 1A	1	23 56	7	13 11			23 33 SKS	
ALMERIA	95.33	17.6	13 30	3						17 22 PP	
GRANADA	95.47	16.6			24 10	6				17 31	
HELWAN	98.50	46.6	13 37	-4	24 16	-3					
CHARTERS TS.	102.82	171.1								18 15 PP	
ROME	103.33	27.5			24 45	2				18 21 PP	
KSARA	103.80	48.2	14 19	14	24 53	8				18 24 PP	
ISOLA	104.23	22.9								18 27	
FLORENCE X.	104.80	26.0			24 50	1				18 23	
PALISADES	106.12	323.3	17 58	777							
GARCHY	106.43	19.2	19 20	777							
TRIESTE	107.17	27.0			25 0	0				18 41 PP	
LJUBLJANA	107.73	27.4								18 49 PP	
BELGRADE	108.20	32.0	19 11K	777						24 10 PKS	
MADRAS	108.81	95.1			25 10	3				28 33	
BOMBAY	109.61	85.4	18 52	777	25 13	3				28 35	
KEW	109.93	15.8								19 13 PP	
KASPERSKE H.	110.38	25.6								19 20 PP	
WICHITA MTS.	110.54	302.2	18 26	-8						19 3 PP	
PRUHONICE	111.40	25.9								19 28	
JENA	111.61	23.6								19 19 PP	
COLLMBERG	112.27	24.4								19 30	
SIMFEROPOL	112.77	41.1			25 24	1				29 8 PS	
DURHAM	112.96	14.2								19 31 PP	
PORT MORESBY	113.48	171.0								19 35	
TIFLIS	114.22	50.2								19 42 PP	
TUCSON	114.50	291.7	18 44	2							
ABERDEEN	115.24	13.3	16 12	-151						29 2	
COPENHAGEN	116.24	22.3								19 54 PP	
GLEN CANYON	118.61	294.3	18 52	2							
BOULDER CITY	119.47	291.3	18 53	2							
NEW DELHI	119.74	82.7	18 55K	3							
PASADENA	119.78	287.5	18 55	3						20 39	
RAPID CITY	120.19	305.2	18 54	1							
FLAMING GRGE	120.61	298.7	18 54	0						20 21 PP	
EUREKA	122.74	293.1	19 1	3	26 12	13				20 41 PP	
MOSCOW	123.06	36.6	19 1	3						20 43 PP	
NURMIJARVI	123.39	26.6	19 0	1							
SKALSTUGAN	123.54	18.8	19 17	18							
CHATRA	123.81	92.1	19 2	2						30 52 PS	
LICK	124.03	287.4	19 3K	3							
RENO	124.73	290.5	18 4	-58							
BERKELEY	124.75	287.4	19 5	3							
BOZEMAN	125.00	301.3	19 3	1							
UMEA	125.29	22.5	19 14	11							
TASHKENT	125.30	67.1	19 6	3						20 58 PP	
SHILLONG	125.37	97.1	19 5A	2							
BUTTE	125.97	300.6	19 6	2							
MINERAL	126.26	289.9	19 4	-1							
SHASTA	126.92	289.6	19 5	-1							
KAJAANI	127.19	25.9	19 4	-2							
LHASA	128.12	93.3	19 5	-3							
HUNGRY HORSE	128.35	301.7	19 9	0							
KIRUNA	128.86	20.1	19 10	0						22 29 SKP	

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1961

PAGE 722

FRUNSE	129.11	69.4	19 13	3					21 23 PP
SODANKYLA	129.71	23.1	19 12	1					21 34 PP
CORVALLIS	130.18	292.4	19 14	2					
KUNMING	130.82	107.6	19 22	9					22 40 PP
BANFF	131.03	303.4							22 34
PENTICTON	131.67	299.3	19 15	0					
SVERDLOVSK	132.35	47.8	19 21	5					
VICTORIA	132.96	296.2	19 20	3					22 43
HONG KONG	134.14	121.6							22 58 PKS
CANTON	134.42	120.1	19 32A	12					
CHENGTU	135.92	104.3	19 36	13					22 54
SEMIPALATNSK	137.09	65.4	19 29	4					
LANCHOW	139.95	99.0	19 27	-3					
SIAN	141.31	105.8							20 36
KHEYS	144.49	16.3	19 39	1					25 48 PPP
NANKING	144.55	118.9	19 39	1					
ZO-SE	144.88	122.8	19 41	2					
PAOTOW	146.58	99.7	19 46	4					
PEKING	149.46	106.8	19 49	3					
ULAN-BATOR	149.63	86.3	19 57	10					
IRKUTSK	150.59	77.2	19 51	3					23 22 PKS
COLLEGE	152.27	309.9	19 47	-4					21 48
MATUSIRO	156.49	143.2	20 8	12					43 57 SS
TUKUBASAN	156.79	147.0	20 22	25	27	1	0		24 7 PP
CHANGCHUN	156.92	111.9	19 56	-1					
VLADIVOSTOK	159.59	122.8	20 2	2					
PETROPAVLOVK	175.61	205.8	20 13	2					25 41 PP

AUGUST 1 9.H 34.M 34.S EPICENTRE -56.99 -25.10 DEPTH= 0.KM

A= 0.49571 B=-0.23220 C=-0.83687 D=-0.4242 E=-0.9056
G=-0.7579 H= 0.3550 K=-0.5474 HT= -7.9

SE= 1.53

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ARGENTINE I.	20.32	230.0	4	40	-1						16	9 SCS
SOUTH POLE	33.19	180.0	6	40	-1				7	18		
BYRD STATION	35.25	197.5	6	58	0						12	5
HERMANUS	37.38	72.1	7	20	4	13	2	-3			8	40 PP
MAWSON	38.71	142.2	7	27	-1	13	24	-1	7	39	9	4 PP
SANTIAGO	38.79	287.6	7	27	-1							
KIMBERLEY	44.75	72.5									8	45
SCOTT BASE	45.22	183.5	8	21	0	15	1	0			10	3 PP
WINDHOEK	46.04	59.6	8	27	0							
PRETORIA	48.95	73.5	8	50	0							
CAPE HALLETT	50.55	186.0	9	3A	1	16	26	10			11	0 PP
LA PAZ	51.68	303.4	9	10	-1	16	32	0				
AREQUIPA	53.28	299.9	9	25	2							
BULAWAYO	53.78	69.8	9	26A	-1							
BROKEN HILL	58.50	66.1	9	59A	-2							
HUANCAYO	58.93	298.6	10	4	0						19	46
BANGUI	70.67	46.9	10	19	-61				11	29		
MBOUR	71.42	8.3				20	14	-28			21	2 SKS
BOGOTA	73.07	308.2	11	34	0	21	6	5			14	22 PP
FUQUENE	73.69	308.9	11	37	-1						14	22 PP
TRINIDAD	73.74	322.7	11	40	2							
CHINCHINA	74.05	306.9	11	39K	-1	21	16	4			14	35 PP
GRENADA	75.16	322.9	11	48	2							
CARACAS	75.55	317.4	11	48A	0	22	5	36				
ST. VINCENT	76.06	323.7	11	47	-4							
ROXBURGH	77.19	190.4				21	54	7				
DOMINICA	78.10	324.3	12	0	-3							
GALERAZAMBA	79.11	309.8	12	34	26							
BALBOA HTS.	79.35	305.1	12	11	2							
ST. KITTS	80.43	323.7	12	18	3							
WELLINGTON	80.68	195.0	12	17	0							
MOORLANDS	80.73	174.2	12	17A	0							
SAN JUAN	82.54	321.1	12	26	0	22	39	-4	12	37	16	23
CHATEAU	82.60	196.0	12	27	0							
TUAI	82.74	197.4	12	29	2							
KARAPIRO	83.85	196.3	12	32	-1							
MELBOURNE	85.17	172.1	12	41	1	23	11	2				
MUNDARING	85.54	147.8	12	41K	0							
ADELAIDE	87.38	166.8	12	51K	1	23	30	0				
CANBERRA	87.91	175.2	12	54	1	23	36	1	13	4	13	8 *SP

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1961

PAGE 723

RIVERVIEW	89.48	176.9	12 58A	-2	23 50	0	23 27	SKS
GRANADA	95.55	17.1	13 32K	4	24 56	52		
ALICANTE	97.23	19.3	13 46	10	24 24	11	25 10	S
TOLEDO	98.12	16.2			24 13	-5	31 48	SS
HELWAN	98.73	47.1			24 23	2	17 53	PP
COLUMBIA	102.18	315.2	18 8	250				
CHARTERS TS.	102.88	171.7					18 14	PP
CHAPEL HILL	103.14	317.6					18 11	
ROME	103.47	27.9			24 43	-1	18 17	PP
MORGANTOWN	106.75	318.7					18 46	PP
TRIESTE	107.30	27.4					18 59	PP
ISTANBUL KA.	107.78	40.1	18 53	777	25 1	-2	19 57	PP
LJUBLJANA	107.87	27.8					19 1	PP
BREBEUF	109.87	325.9					19 8	PP
KEW	110.00	16.2			26 57	105	34 43	SS
WICHITA MTS.	110.26	302.7	14 43	-231			19 7	PP
KASPERSKE H.	110.51	26.0					19 14	PP
PRUHONICE	111.53	26.3	18 52	16			19 22	
SIMFEROPOL	112.97	41.5					19 39	PP
PORT MORESBY	113.54	171.7	19 32	52				
LWOW	113.93	32.4					19 39	
TUCSON	114.20	292.1	18 45	3				
TIFLIS	114.46	50.6			25 24	-6	21 16	PP
QUETTA	115.82	74.0	18 48	3				
GLEN CANYON	118.31	294.8	18 51	1			20 14	PP
LARAMIE	118.83	302.0	18 26	-25			20 8	
BOULDER CITY	119.17	291.7	18 53	2			20 13	PP
PASADENA	119.47	288.0	18 55	3			20 22	
RAPID CITY	119.92	305.5	18 52	-1				
NEW DELHI	120.05	83.1	18 54K	1				
FLAMING GRGE	120.32	299.1	18 16	-38			20 23	PP
UPPSALA	121.29	23.6					30 19	PS
SALT LAKE C.	121.39	297.3	18 58	2			20 32	PP
EUREKA	122.44	293.5	19 0	2	26 0	2	20 37	PP
VINEYARD	123.14	287.6	19 3	4				
MOSCOW	123.24	37.0					19 38	
STALINABAD	123.27	69.3	19 1	2				
NURMI JARVI	123.52	26.9	19 2	2				
SKALSTUGAN	123.63	19.0	19 2	2				
LICK	123.72	287.8	19 5A	5			20 38	
CHATRA	124.13	92.6	19 1	0				
RENO	124.43	290.9	19 15	13				
BERKELEY	124.44	287.8	19 4	2				
BOZEMAN	124.72	301.7	19 5	3				
UMEA	125.40	22.8	19 2	-1				
TASHKENT	125.59	67.4	19 5	1	26 4	-4		
BUTTE	125.69	301.0	19 6	2				
SHILLONG	125.69	97.6	19 3K	-1				
MINERAL	125.95	290.3	19 5K	1				
NAMANGAN	126.55	69.4	19 8	2				
SHASTA	126.61	290.0	19 6	0				
KAJAANI	127.32	26.1	19 7	0				
HUNGRY HORSE	128.07	302.1	19 9	0			21 7	PP
LHASA	128.44	93.8	19 12	3				
KIRUNA	128.95	20.4	19 10	0			19 34	
FRUNSE	129.41	69.8	19 13K	2				
SODANKYLA	129.83	23.3	19 12	0				
CORVALLIS	129.88	292.8	19 14	2				
BANFF	130.76	303.8	19 15	1				
KUNMING	131.13	108.1					22 39	
PENTICTON	131.38	299.6	19 25	10				
SVERDLOVSK	132.58	48.1	19 18	1				
VICTORIA	132.67	296.5					21 43	
CANTON	134.71	120.7					21 50	
CHENGTU	136.23	104.8	19 25	1			22 54	
LANCHOW	140.27	99.5	19 25	-6				
SIAN	141.62	106.4	19 33	-1				
NANKING	144.84	119.6	19 39	0			23 15	PP
ZO-SE	145.15	123.5	19 41	1				
PAOTOW	146.90	100.2	19 47	4				
PEKING	149.77	107.4	19 49	2				
ULAN-BATOR	149.95	86.7	19 49	1				
IRKUTSK	150.90	77.5	19 54	5				
COLLEGE	152.02	310.0	19 48	-3	26 17	-40		
MATUSIRO	156.69	144.2	19 58	1			43 56	SS
CHANGCHUN	157.22	112.6	19 57	-1				
YAKUTSK	166.31	58.0	20 2	-5				
Y.-SAKHLINSK	167.53	138.0	20 10	2				

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1961

PAGE 724

PETROPALOVK 175.48 210.1 20 13K 1

AUGUST 2 2.H 31.M 37.S EPICENTRE -56.86 -24.78 DEPTH= 108.KM

A= 0.49863 B=-0.23021 C=-0.83569 D=-0.4192 E=-0.9079
G=-0.7587 H= 0.3503 K=-0.5492 HT= -7.9

DEPTH OF FOCUS= 0.012R

SE= 1.99

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ARGENTINE I.	20.53	229.7	4	25	-6							
SOUTH POLE	33.31	180.0	6	29	0				7	2		
BYRD STATION	35.42	197.5	6	44	-3							
HERMANUS	37.18	71.9				12	49	9			13	10 PCS
MAWSON	38.70	142.2	7	15	0				7	26	8	48 PP
KIMBERLEY	44.55	72.3	8	1A	-1							
SCOTT BASE	45.35	183.4	8	8	-1	14	38	-3			9	44 PCP
CAPE HALLETT	50.69	185.9	8	49	-1	15	33	-22			10	23 PP
LA PAZ	51.76	303.0	8	59	1	16	15	5				
AREQUIPA	53.37	299.5	9	10	0							
BROKEN HILL	58.30	65.8	9	45A	0							
LWIRO	69.00	59.5	10	58	3							
BANGUI	70.46	46.6	11	4	0						15	16
BOGOTA	73.13	307.9	11	22	2	20	49	11			14	10 PP
FUQUENE	73.74	308.6	11	24	0							
CHINCHINA	74.12	306.6	11	25	-1						14	19 PP
CARACAS	75.57	317.0	11	30	-4	21	18	13				
MOORLANDS	80.83	174.0	12	5	2							
COBB RIVER	81.31	193.3	11	53	-13							
SAN JUAN	82.55	320.8	12	14	2						15	52
CHATEAU	82.77	195.8	12	15	2						15	53
TUAI	82.91	197.1	12	16	2							
KARAPIRO	84.01	196.0	12	18	-1							
MUNDARING	85.55	147.5	12	28	1							
ADELAIDE	87.46	166.5	12	31	-5						16	17 PP
CANBERRA	88.02	174.9	12	40	1						16	19 PP
KSARA	103.82	48.4									21	26
PALISADES	105.92	323.5									26	1 SKKS
WICHITA MTS.	110.34	302.5	18	28	9						37	57 PKPPKP
TUCSON	114.31	291.9	18	30	3							
GLEN CANYON	118.42	294.6	18	6	-29							
NEW DELHI	119.87	82.8	18	41K	4							
FLAMING GRGE	120.42	299.0	18	35	-3						20	8 PP
CHINA LAKE	120.59	289.4	18	42	3							
LICK	123.85	287.7	18	48	3						22	27
BERKELEY	124.57	287.6	18	49	2							
SHILLONG	125.54	97.3	18	51	3							
MINERAL	126.07	290.1	19	4A	15						22	32
ARCATA	127.74	288.9									18	19
HUNGRY HORSE	128.15	302.0	18	55	2						20	57 PP
KIRUNA	128.78	20.2	18	57	2						40	57 PKPPKS
SODANKYLA	129.64	23.1	18	57	1						22	36 SKP
KUNMING	131.00	107.7									22	23
PENTICTON	131.47	299.5	19	1	1							
VICTORIA	132.77	296.4									22	27
RESOLUTE	139.11	337.5									23	3
KHEYS	144.40	16.2	19	24	1							
NANKING	144.75	119.1	19	26	2							
PAOTOW	146.75	99.7	19	32	5							
PEKING	149.64	106.8	19	39	7							
COLLEGE	152.07	310.2	19	42	7							
MATUSIRO	156.69	143.5	20	5	23						29	57
PETROPALOVK	175.67	208.6	19	57	0							

AUGUST 2 12.H 12.M 6.S EPICENTRE 44.71 148.88 DEPTH= 65.KM

A=-0.61045 B= 0.36847 C= 0.70113 D= 0.5168 E= 0.8561
G=-0.6003 H= 0.3623 K=-0.7130 HT= -3.4

DEPTH OF FOCUS= 0.005R

SE= 2.09

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1961

PAGE 725

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
KURILSK	0.89	306.1	0	20	2	0	36	4				
Y.-SAKHLINSK	4.89	300.4	1	16	3						1	39
UGLEGORSK	6.39	315.5	1	38	4	2	54	8			3	26
SEVERO-KUR.	7.69	36.7	1	54	2							
MIZUSAWA	8.03	228.7	1	53	-4	3	13	-14				
OKHA	9.67	338.4	2	21	2							
PETROPAVLOVK	10.50	34.2	2	12	-18						4	20
TUKUBASAN	10.80	221.2	2	28	-6	4	4	-30				
MATUSIRO	11.50	228.5	2	39A	-5	4	38	-13				
VLADIVOSTOK	12.35	268.6	2	56	1	5	12	0				
MAGADAN	14.91	3.8	3	28	-1						6	30 SS
CHANGCHUN	16.90	275.3	3	53	-1	6	54	-4				
YAKUTSK	20.63	333.9	4	34	-2	8	17	-1				
PEKING	24.52	270.5	5	16	1	9	35	7				
PAOTOW	28.69	275.5	5	55	2	10	37	1				
ULAN-BATOR	28.92	291.5	5	56	1							
LANCHOW	35.02	271.6	6	49A	1	12	13	-2				
COLLEGE	39.57	36.8	7	27	0							
KUNMING	41.94	258.0	7	46	0	14	0	0				
LHASA	47.52	272.0				15	23	3				
RABAU	48.78	175.6	9	0	19							
SHILLONG	49.34	267.1	8	43A	-2							
ALMATA	50.18	295.3	8	52	1							
FRUNSE	51.89	295.9	9	5	1							
RESOLUTE	53.69	17.2	9	16	-2							
TASHKENT	56.08	296.8	9	35	0						17	19
KHOROG	56.70	291.8	9	41	2							
THULE	56.84	9.8	9	39	-1							
VICTORIA	57.13	52.3	9	41	-1							
NEW DELHI	57.95	279.9	9	50K	2							
APATITY	58.02	335.9	9	46	-3							
LAHORE	58.18	284.4	9	43	-7							
PENTICTON	58.80	49.9	9	52	-2							
BANFF	59.93	46.4	10	1	-1							
SODANKYLA	60.05	337.8	10	1	-2							
TROMSOE	60.24	342.0	10	3	-1							
KIRUNA	61.29	340.2	10	9K	-2							
HUNGRY HORSE	62.38	48.3	10	18	0							
MINERAL	62.82	59.2	10	20A	-1							
LEMBANG	63.30	227.1	10	40K	15							
QUETTA	64.07	287.6	10	29	-1				10	46		
MOSCOW	64.41	324.2	10	31	-1							
UMEA	64.48	337.4	10	30K	-2							
CHARTERS TS.	64.53	182.7	10	30	-3						10	51
BUTTE	64.59	49.7	10	33	0							
BOZEMAN	65.64	49.3	10	40	0							
NURMIJARVI	65.74	333.3	10	38K	-2						11	4
SKAL STUGAN	66.72	340.5	10	44K	-3							
EUREKA	66.77	57.0	10	46	-1						11	24
CHINA LAKE	68.10	61.0	10	54	-1							
SALT LAKE C.	68.35	53.8	10	57	0							
UPPSALA	68.41	335.9	10	56K	-1							
FLAMING GRGE	69.65	52.3	11	4	-1							
BOULDER CITY	69.71	59.3	11	4	-1							
TIFLIS	70.43	309.6	11	11	2							
TEHERAN	70.61	301.2	11	12	1							
RAPID CITY	70.85	46.5	11	11	-1							
REYKJAVIK	71.26	355.7	11	15	1							
SIDA	71.36	353.9	11	17K	2							
LARAMIE	71.51	49.9	11	17	1							
GOTEBORG	71.82	337.3	11	17	-1							
COPENHAGEN	73.43	336.0	11	28K	1							
SIMFEROPOL	73.65	317.8	11	30	1							
LWOW	74.32	326.5	11	33	1							
TUCSON	74.67	59.8	11	35	1						11	57
RACIBORZ	76.30	329.8	11	45A	1						11	56 PCP
COLLMBERG	77.04	333.4	11	48A	0						12	4 PCP
HALLE	77.19	334.0	11	49	0	21	31	-1				
WITTEVEEN	77.57	337.6	11	52	1							
PRAGUE	77.62	331.9	11	52	1							
PRUHONICE	77.66	331.8	11	52A	1						12	22
DURHAM	77.76	343.0	11	51K	-1							
JENA	77.81	334.0	11	52	0						12	58
MUNSTER	78.07	336.7	11	55	1							
BRATISLAVA	78.30	329.4	11	55A	0						12	20 PCP

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1961

PAGE 726

VIENNA-H.	78.50	329.8	11 56	0		
KASPERSKE H.	78.71	331.9	11 57A	0		
BENSBERG	79.10	336.5	12 0	1	12 18	
WICHITA MTS.	80.07	50.6	12 3	-1		12 24
STUTTGART	80.42	334.2	12 6	0		
KEW	80.57	341.1	12 8A	1		
LJUBLJANA	81.03	329.7	12 9A	-1		
STRASBOURG	81.05	335.0	12 10	0		
FAYETTEVILLE	81.39	46.9	12 11A	0		
TRIESTE	81.65	330.0	12 13	0		
BASLE	82.04	334.7	12 15A	0		
PARIS	82.33	338.3	12 17	1		
BREBEUF	82.60	28.6	12 17	-1		
BESANCON	82.77	335.5	12 19	0		
FOLINIÈRE	83.12	340.1	12 21	1		
GARCHY	83.58	337.4	12 25	2		
ROSELEND	83.85	333.7	12 26	2		
ISOLA	85.21	333.5	12 31	0		
MORGANTOWN	85.24	35.7	12 42K	11		
MONACO	85.49	333.1	12 31	-1		
BAGNERES	88.26	337.6	12 46	0		
SOUTH POLE	134.52	180.0	19 12	1		

AUGUST 3 3.H 8.M 6.S EPICENTRE 18.49 -66.40 DEPTH= 133.KM

A= 0.37994 B=-0.86962 C= 0.31528 D=-0.9164 E=-0.4004
G= 0.1262 H=-0.2889 K=-0.9490 HT= 5.0

DEPTH OF FOCUS= 0.016R

SE= 1.44

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
SAN JUAN	0.29	113.1	0	19	-1	0	29	-6				
ST. KITTS	3.68	107.6	0	55	-2							
ANTIGUA	4.55	106.5	1	8	0							
DOMINICA	5.74	122.8	1	25	1							
FORT FRANCE	6.27	125.9	1	33	1	2	40	-2				
GRENADA	7.83	144.2	1	50	-3	3	15	-5			9	5
CARACAS	7.96	183.8	1	58	4	3	15	-8				
BARBADOS	8.45	128.3	2	4	3							
TRINIDAD	9.18	147.5	2	11	0	3	49	-3				
GALEAZAMBA	11.51	229.4	2	45	4							
BERMUDA	13.91	6.1	3	11	-2	5	28	-16				
FUQUENE	14.79	209.8	3	22A	-2	6	6	2				
BOGOTA	15.69	209.5	3	36A	1	6	26	1	3	59	7	7 *SS
BALBOA HTS.	15.90	235.2	3	37	-1							
CHINCHINA	16.18	215.0	3	39K	-2	6	41	5	4	0		
COLUMBIA	20.23	322.6	4	26	-1							
WASHINGTON	22.35	337.7	4	48	0	8	51	12	5	9		
PALISADES	23.35	345.5	4	57K	0	9	8	11	5	21	5	28 *SP
MORGANTOWN	24.11	333.7	5	7K	2						12	11
PENNSYLVANIA	24.32	338.5	5	5	-2	9	28	15			9	48
HALIFAX	26.15	4.5	5	25K	1							
CLEVELAND	26.31	333.7	6	27K	62						11	31 S
BREBEUF	27.59	349.0	5	37	0							
OTTAWA	27.93	345.9	5	39K	-1							
FAYETTEVILLE	30.13	311.2	5	59K	-1						12	28 SCP
HUANCAYO	31.60	196.8	6	12	0						12	36
WICHITA MTS.	32.83	306.0	6	22K	-1	11	30	1			13	50 SS
LA PAZ	34.81	182.9	6	40	0	11	20	-40				
AREQUIPA	35.09	188.5	6	39	-3							
RAPID CITY	39.98	317.8	7	23	0							
TUCSON TELE.	42.05	298.0	7	42	2				8	5	13	13 SCP
ANTOFAGASTA	42.12	185.5	7	38	-3							
TUCSON	42.13	297.8	7	42	1	13	53	3	8	3	9	5 PP
FLAMING GRGE	42.97	310.7	7	47	-1						9	36 PCP
GLEN CANYON	43.58	304.5	7	54	1						9	40 PCP
SALT LAKE C.	44.71	309.7	8	1	-1						13	22 SCP
BOZEMAN	45.72	316.5	8	11	1						13	28 SCP
BUTTE	46.84	316.4	8	19	1							
EUREKA	47.47	306.9	8	24	1				8	49	9	56 PP
PASADENA	48.46	299.5	8	32K	1	15	27	7			10	31
HUNGRY HORSE	48.59	318.9	8	32	0						13	39 SCP
RENO	50.41	306.3	8	OK	-46							
BANFF	50.52	321.9	8	46K	-1							

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1961

PAGE 727

VINEYARD	51.30	302.6	8 54K	1					
LICK	51.56	303.3	8 55K	0			10 7		
MINERAL	51.88	307.1	8 56K	-1					10 8
BRANNER	52.00	303.3	8 58K	0					10 9
BERKELEY	52.10	303.9	8 59K	0			10 9		
PENTICTON	52.39	318.6	9 0K	-1			10 10		
SHASTA	52.53	307.4	9 0K	-2					
CORVALLIS	53.78	312.1	9 10K	-1					
ARCATA	53.82	307.5	9 12	1					10 11
SERRA PILAR	53.94	52.3	9 6A	-6					
REYKJAVIK	54.53	22.2	9 18	1					
VICTORIA	54.62	316.8	9 16	-1					
SIDA	55.76	23.7	9 27K	2					
GRANADA	57.58	57.3	9 41K	3					
THULE	57.96	359.5	9 41	0					
RESOLUTE	58.29	351.4	9 42	-1					
ALMERIA	58.48	57.7	9 45K	0	17 43	7			
FOLINIERE	60.49	44.0	9 58	0					
BAGNERES	60.57	50.5	9 59	0					
DURHAM	60.60	37.0	10 0K	1	18 8	5			19 42 SKS
KEW	60.88	40.9	10 1K	0	18 9	3			19 37
PARIS	62.45	44.1	10 11	-1					
CLERMONT-FD.	62.77	47.5	10 14	0					
BESANCON	64.75	45.9	10 26	-1					
WITTEVEEN	65.27	39.7	10 30	0					
BENSBERG	65.54	41.8	10 31K	-1					
ISOLA	65.58	49.2	10 32	0					
MUNSTER	65.84	40.7	10 34K	0					
MONACO	65.87	49.7	10 34	0					
ROSELEND	65.94	47.8	10 30	-4					
STRASBOURG	65.94	44.4	10 34K	0	19 14	5			20 17
KARLSRUHE	66.36	43.9	10 36	-1					20 20
HEIDELBERG	66.55	43.5	10 37	-1					
EBINGEN	66.75	44.8	10 38	-1					
TUBINGEN	66.81	44.4	10 39	-1					
STUTTGART	66.94	44.2	10 40	0					
JENA	68.33	41.8	10 48	-1					
GOTEBORG	68.37	34.5	10 50	1					
HALLE	68.54	41.1	10 50	0	19 44	4			
SKALSTUGAN	68.57	28.1	10 51K	0					
FLORENCE X.	68.63	49.4	10 49	-2					11 12
COPENHAGEN	68.67	36.6	10 52A	1	19 47	5			20 45 SCS
COLLMBERG	69.21	41.3	10 54K	0					13 33 PP
ROME	69.73	51.3	10 57K	-1	19 57	3	11 27		13 35 PP
KASPERSKE H.	69.75	43.6	10 58K	0					13 38
COLLEGE	69.79	333.3	10 57	-1					
TRIESTE	70.21	47.3	11 1	0	20 3	3			
PRAGUE	70.21	42.5	11 1	0					
PRUHONICE	70.30	42.6	11 2K	1					13 38
LJUBLJANA	70.70	46.8	11 4K	1					11 26
TROMSOE	71.19	21.6	11 7	1					
UPPSALA	71.22	32.0	11 6K	-1					
VIENNA-H.	71.68	44.3	11 9K	0					
KIRUNA	71.84	23.5	11 10K	0	20 22	3			21 4 SP
UMEA	72.11	27.7	11 11K	-1					
BRATISLAVA	72.17	44.3	11 13K	1					
RACIBORZ	72.62	42.2	11 15	0					
SODANKYLA	74.26	23.7	11 26K	2					
NURMIJARVI	74.61	30.9	11 25	-1					
BELGRADE	75.01	47.4	11 30A	1					14 19 PP
KAJAANI	75.33	26.9	11 31	1					
LWOW	76.37	41.8	11 38K	2	21 15	6			
APATITY	76.77	22.9	11 38	-1					
KHEYS	77.12	8.0	11 42	1					21 16
PULKOVO	77.54	31.0	11 43	0	21 23	1			
ATHENS	78.95	53.6	11 52K	1					
KISHINEV	80.17	43.7	11 57	0	21 51	2			
ISTANBUL UN.	82.02	49.5	12 8A	1					
ISTANBUL KA.	82.07	49.5	12 8	1	22 14	5			
MOSCOW	82.54	33.6	12 11K	2	22 18	4			
ARGENTINE I.	83.50	179.1	12 13	-1					
BANGUI	83.91	87.4	12 17	1					
SIMFEROPOL	84.32	44.6	12 21	3	22 42	11			
HELWAN	87.40	59.5	12 36K	2					
TIFLIS	92.74	44.3							16 1
YAKUTSK	98.74	352.4	13 23	-3					
SCOTT BASE	115.38	190.8	18 28	2					
MAWSON	121.43	159.7	18 38	0					

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1961

PAGE 729

LWOW	103.75	320.4										18 27
MINERAL	105.57	49.2	17	55A	777							
CHINA LAKE	109.41	53.4	18	0	777							
EUREKA	109.98	49.3	18	12	777							19 5 PP
COLLMBERG	110.13	323.8	18	14	-20							19 57
KASPERSKE H.	110.51	321.5	18	37	2							19 17
LJUBLJANA	110.86	318.2	19	47	72							
TUCSON	115.61	56.0	18	20	-25							
RAPID CITY	117.66	41.3	18	50	2							
WICHITA MTS.	124.64	49.7	19	4	2							20 50 PP
PALISADES	136.57	27.7	19	17	-8	26	29	-5				22 5 PP
ANTOFAGASTA	145.68	143.5	19	43	2							
HUANCAYO	149.47	121.1	19	53	6							
AREQUIPA	150.05	132.5	19	53	5							
LA PAZ	152.41	137.1	19	57	6							
SAN JUAN	157.72	47.7	19	48	-10							20 33

AUGUST 3 23.H 33.M 35.S EPICENTRE 12.36 144.21 DEPTH= 0.KM

A=-0.79256 B= 0.57148 C= 0.21275 D= 0.5849 E= 0.8111
G=-0.1726 H= 0.1244 K=-0.9771 HT= 6.2

SE= 2.37

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
RABAUL	18.26	153.8	4	17	0							
MANILA	22.60	278.5	5	7	3	9	3	-4				
ABUYAMA	23.74	342.1	5	16K	1							
TUKUBASAN	24.04	351.8	5	12	-6	9	35	2				5 35
MATUSIRO	24.67	348.4	5	24A	0	9	40	-4				
ZO-SE	28.27	314.9	5	57	0	10	38	-5				
HONG KONG	30.27	293.1	7	9	54	11	5	-10				10 0
NANKING	30.49	314.1	7	12	55							12 59
CANTON	31.21	294.3	7	21	58							
CHARTERS TS.	32.31	176.4	6	30	-3							7 33
VLADIVOSTOK	32.44	343.1										7 42 PPP
Y.-SAKHLINSK	34.57	358.2										8 15 PPP
CHANGCHUN	35.33	336.1	7	0	1	12	33	-1				
PEKING	37.01	323.2	7	13	0	12	56	-3				
KOUMAC	38.21	148.7	7	23K	0							
SIAN	38.75	310.1	7	28	0	13	20	-6				
BRISBANE	40.38	168.2	7	41	-1	13	37	-14				
NOUMEA	40.77	147.5	7	44K	-1							
LEMBANG	41.07	244.3	7	46	-1							
KUNMING	41.10	294.1	7	48	1	14	0	-1				
CHENG TU	41.32	302.6	7	50	1	13	58	-6				
PETROPAVLOVK	42.17	13.0	7	58	2	13	57	-20				
LANCHOW	43.29	310.0	8	6A	1							
MEDAN	45.86	262.9	8	24	-2							
RIVERVIEW	46.41	172.0	8	35	5							
ULAN-BATOR	47.14	326.2	8	36	0							
MAGADAN	47.35	4.6	8	28	-10							
ADELAIDE	47.36	186.1	8	36A	-2							
CANBERRA	47.64	174.7	8	39	-1							
YAKUTSK	50.67	351.2										9 25
AFIAMALU	50.84	119.5	9	7	2							
SHILLONG	50.91	292.9	9	2A	-3	16	18	-3				
IRKUTSK	51.05	329.6	8	26	-40							
MUNDARING	51.60	210.6	9	8A	-2							
PERTH	51.77	211.0										11 15
LHASA	52.07	298.0	9	14	0	16	33	-5				
CHATRA	55.21	294.1	9	36K	-1							
KARAPIRO	58.01	151.0	9	56	-1							
HAWAII V.OB.	58.39	74.7	10	1	1	18	13	11				
CHATEAU	59.03	151.9	10	4A	0							
TUAI	59.47	150.4	10	5	-2							
DEHRA DUN	63.36	297.8	10	36	2							19 2
SEMI PALATNSK	64.02	320.2	10	37	-1							
LAHORE	66.56	299.1	10	53	-1	19	45	0				
FRUNSE	66.74	311.4	10	55	0							
ANDI JAN	68.30	309.0	11	6	1							
NAMANGAN	68.84	309.2	11	9A	0							
WARSAK DAM	68.88	301.8	11	10	1							
COLLEGE	69.58	25.0	11	13	0							14 3 PP
TASHKENT	70.65	309.6	11	19	-1							

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1961

PAGE 730

STALINABAD	71.05	306.7	11 23	1					
QUETTA	72.96	297.9	11 32	-1	20	56	-4		
SVERDLOVSK	76.24	325.8	11 52	0					
KHEYS	77.25	350.3	12 3	5					
VICTORIA	82.41	42.1	12 28	2					
SHASTA	84.60	49.7	12 40	3					
PENTICTON	84.71	40.8	12 40	3				13	9
TEHERAN	85.14	305.4	12 40	0	23	5	-4		
MINERAL	85.26	49.9	11 43K	-57					
BERKELEY	85.27	52.4	12 40	0	23	15	5		
LICK	85.87	52.8	12 46K	3					
RESOLUTE	85.89	13.2	12 44	1					
RENO	86.78	50.4	12 6	-42					
BANFF	86.80	38.4	12 50	2					
FRESNO	87.43	53.1	11 54	-57					
GORIS	88.21	309.9	12 54	-1	23	19	-19		
HUNGRY HORSE	88.53	40.8	12 58	2	23	44	3	13	7
TIFLIS	88.77	312.4	12 57A	0					
SODANKYLA	88.79	339.9	12 56A	-1					
MOSCOW	88.98	327.2	12 58A	0	23	24	-21		
PASADENA	89.35	55.3	13 2	2	23	54	5	33	25 SSS
EUREKA	89.67	49.7	12 54	-7				16	25 PP
KAJAANI	90.03	336.8	13 2	-1					
BUTTE	90.18	42.7	13 5	1					
KIRUNA	90.54	341.6			23	34	-26		
PULKOVO	90.96	332.4						18	10
SCOTT BASE	90.96	175.3	13 8	1					
BOZEMAN	91.30	42.7	13 12	3					
BOULDER CITY	91.51	52.8	13 12	2					
UMEA	92.95	338.4	13 17	0					
NURMIJARVI	93.07	334.5	13 16A	-1					
GLEN CANYON	93.70	51.1	13 23	3					
FLAMING GRGE	94.03	46.8	13 23	1					
SIMFEROPOL	95.08	318.0	13 24	-2	24	1	-1		
TUCSON	95.79	55.4	13 34	4					
KSARA	97.93	307.1						23	1
ISTANBUL UN.	100.12	316.0						13	24
COLLMBERG	103.80	330.9	14 5	-1				18	29 PP
WICHITA MTS.	104.32	49.1	14 14	6				18	25 PP
ROME	110.12	323.6			25	19	6	28	30 PS
PALISADES	116.28	31.4						29	35 PS
BROKEN HILL	117.63	260.1						20	0
BANGUI	123.42	283.7	19 0	0					
CARACAS	141.63	55.0	19 35	1				43	7 SS
ST. VINCENT	144.20	45.7	19 41	3					
TRINIDAD	145.80	49.1	19 44	3					
LA PAZ	148.44	101.4	19 52	7					

AUGUST 4 18.H 35.M 20.S EPICENTRE 33.68 -38.72 DEPTH= 50.KM

A= 0.65062 B=-0.52161 C= 0.55192 D=-0.6255 E=-0.7802
G= 0.4306 H=-0.3452 K=-0.8339 HT= 0.6

DEPTH OF FOCUS= 0.003R

SE= 3.40

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PONTA DELGDA	11.34	65.4	2	43K	1							
HALIFAX	22.09	307.0	4	52K	0							
SERRA PILAR	24.97	63.9	5	19A	-1							
COIMBRA	24.99	66.1	5	20	-1	9	43	5			5	54 PP
MBOUR	27.53	129.0									10	35 PCP
TOLEDO	28.33	67.3	5	51	0	10	40	7				
GRANADA	28.73	72.9	6	15	20	10	54	15				
PALISADES	28.78	295.0	5	57	2	11	17	37				
SHAWINIGAN	28.81	306.7	5	55	-1							
OTTAWA	30.58	303.6	6	11	0							
ALICANTE	31.13	70.3	6	19	3	11	21	4			13	2 SS
BAGNERES	31.64	61.2	6	20	-1							
PENNSYLVANIA	31.77	294.4				11	38	11				
TORTOSA	31.82	65.5	6	20	-2						9	51
FOLINIERE	32.09	50.4	6	24	-1							
KEW	32.92	45.6	6	34	2	11	44	-1				
DURHAM	33.38	39.5	6	23	-13							
CLERMONT-FD.	34.00	56.6	6	42	1	12	12	10				

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1961		PAGE 731									
PARIS	34.02	51.1	6 22	-19	12 10	8					
GARCHY	34.15	53.9	6 42	0							
ABERDEEN	34.16	35.4					13 36				
CARACAS	34.65	234.8	6 40	-7	12 21	9					
BESANCON	36.11	54.4	6 59	0							
MONACO	36.97	60.4	7 6	0							
ROSELEND	37.14	57.5	7 3	-5							
STRASBOURG	37.45	52.4			13 3	8					
STUTT GART	38.46	52.2	7 16	-3	13 15	5					
PADOVA	40.12	57.6					9 3				
JENA	40.14	49.0	7 32	-1	13 40	4	9 16	PPP			
ROME	40.77	63.0	7 39	1	13 50	5	9 19	PP			
COLLMBERG	41.07	48.6	7 40A	0	13 51	2					
KASPERSK E H.	41.31	51.9	7 43A	1			9 53				
TRIESTE	41.44	57.2	7 44	1	14 3	8					
PRAGUE	41.90	50.5			14 11	9	7 58				
LJUBLJANA	41.96	56.6	7 49	1			9 49				
PRUHONICE	41.97	50.7	7 48A	0	14 6	3	9 30	PP			
SKAL STUGAN	43.25	30.5	8 8	10							
RACIBORZ	44.33	50.6	8 8	1							
UPPSALA	44.79	36.6					18 7	SS			
KIRUNA	47.71	26.1	8 33	-1	15 27	2					
SOFIA	48.62	60.2	8 45	4							
WICHITA MTS.	48.87	288.9	8 45	2	15 49	7	10 53	PP			
RESOLUTE	49.05	343.0	8 48	4	15 52	8					
SODANKYLA	49.95	27.4	8 52	1							
PULKOVO	51.17	37.3	8 37	-23							
APATITY	52.57	27.4	9 12	1	16 37	4					
ISTANBUL UN.	53.11	61.1					9 14				
ISTANBUL KA.	53.16	61.0	9 17	2	16 42	1					
FLAMING GRGE	55.30	299.6	9 30	-1							
HUNGRY HORSE	56.48	309.3	9 38	-1							
LA PAZ	57.24	214.1	9 50	5	17 47	12					
KHEYS	58.11	11.1	9 53	2	17 59	13					
GLEN CANYON	58.18	295.7	9 43	-8							
HELWAN	58.63	73.0	9 53	-1							
EUREKA	60.53	299.9	10 10	2			11 18				
BANGUI	60.62	105.6	10 6	-2			10 12				
KSARA	60.65	67.0	10 12	4							
BOULDER CITY	60.98	295.8	10 14	3							
WOODY	64.10	296.9	10 32	1							
COLLEGE	67.51	334.1	10 47	-6							
ANDI JAN	82.48	45.6	12 30	11							
PORT MORESBY	155.24	346.1	19 11	-36							

AUGUST 4 22.H 52.M 55.S EPICENTRE 45.49 151.29 DEPTH= 40.KM

A=-0.61695 B= 0.33786 C= 0.71079 D= 0.4803 E= 0.8771
G=-0.6234 H= 0.3414 K=-0.7034 HT= -3.7

DEPTH OF FOCUS= 0.001R

SE= 3.36

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
KURILSK	2.43	265.0	0	26	-12	1	5	-2				
NEMURO	4.63	244.2	1	6	-3	1	56	-6				
ABASHIRI	5.21	256.1	1	17	0							
KUSIRO	5.55	245.5	1	18	-4	2	18	-8				
SEVERO-KUR.	6.10	30.1	1	29	-1	2	43	4				
Y.-SAKHLINSK	6.14	287.5	1	32	2	2	46	6				
OB IHIRO	6.36	249.0	1	33	0							
HIROO	6.60	243.7	1	33	-4	2	44	-7				
WAKKANAI	6.76	272.8	1	40	1	3	8	12				
URAKAWA	7.01	244.5	1	40	-2	2	58	-4				
RUMOE	7.06	260.8	1	44	1	3	11	8				
SAPPORO	7.54	254.8	1	50	0	3	13	-2				
TOMAKOMAI	7.56	251.2	1	56	6							
MURORAN	8.09	250.6	1	57	0	3	30	1				
SUTTSU	8.40	255.2	2	4	2	3	37	1				
MORI	8.46	250.2	2	3	0	3	9	-29				
HAKODATE	8.48	248.0	1	58	-5	3	30	-8				
HATINOHE	8.70	238.7	2	5	-1	3	32	-12				
PETROPAVLOVK	8.93	29.9	2	7	-2	3	47	-3				
AOMORI	8.99	242.4	2	19	9	4	1	10				

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1961		PAGE 732					
MIYAKO	9.02	232.9	2	13	3		
MORIOKA	9.44	235.8	2	10	-6	3	48 -14
OKHA	9.72	329.1	2	22	2	4	19 10
MIZUSAWA	9.85	233.4	2	16	-6	4	0 -12
AKITA	10.06	239.0	2	49	24	4	32 15
ISINOMAKI	10.24	229.9	2	20	-7	4	9 -13
SENDAI	10.58	230.6	2	29	-3	4	18 -12
SAKATA	10.75	236.2					
YAMAGATA	10.90	232.2	2	29	-7	4	23 -15
HUKUSIMA	11.19	230.1	2	36	-4		
ONAHAMA	11.57	226.1				4	29 -25
SHIRAKAWA	11.79	228.7	2	46	-2	4	46 -13
NIIGATA	11.86	234.7				4	46 -15
MITO	12.23	225.7	2	45	-9	4	54 -16
UTUNOMIYA	12.41	227.9	2	47	-9		
KAKIOKA	12.49	226.1	2	51	-7	5	8 -8
TUKUBASAN	12.54	226.3	2	50A	-8	4	59 -19
TAKADA	12.89	234.0	2	55	-8		
MAEBASI	12.94	229.7	3	2	-2	5	16 -11
KUMAGAYA	12.97	228.1	3	0	-4	5	15 -13
NAGANO	13.22	232.8	3	20	13		
TITIBU	13.25	228.5	3	23	15		
OIWAKE	13.28	230.9	3	18	10	5	49 14
MATUSIRO	13.31	232.4	3	1	-7	5	23 -13
YOKOHAMA	13.39	225.4					
TOYAMA	13.77	235.3					
HUNATU	13.78	228.0	3	16	1	5	36 -11
MISIMA	13.98	226.5					
MAGADAN	14.08	359.0	3	19	0		
VLADIVOSTOK	14.09	267.2	3	16	-3	5	49 -5
IIDA	14.27	230.4	3	17	-4		
OMAESAKI	14.76	227.1					
GIHU	14.94	232.6	3	26	-4		
NAGOYA	15.00	231.6	3	37	7	6	31 15
HIKONE	15.33	233.5	3	32	-3		
TOYOOKA	15.97	237.2	3	39	-4	6	49 10
ABUYAMA	16.00	233.9	3	38A	-5		
OSAKA	16.18	233.5	3	56	10		
SUMOTO	16.76	234.0	3	57	4	7	6 9
KOTI	18.12	235.0	4	16	6	7	31 3
HIROSIMA	18.19	238.9	4	11	0	7	36 7
MATUYAMA	18.35	237.1	4	13	0		
CHANGCHUN	18.54	274.1	4	12A	-3	7	31 -6
OITA	19.47	237.9	4	25A	-1	8	5 7
HUKUOKA	19.98	240.7	4	32	1	8	19 10
KUMAMOTO	20.31	238.6	4	36	1	8	27 12
YAKUTSK	20.73	330.7	4	39	0	8	25 2
KAGOSIMA	21.28	236.4	4	43	-2	8	43 9
PEKING	26.22	270.5	5	32	-1	9	59 -1
ZO-SE	27.47	248.9	5	42K	-2	10	22 2
TIKSI	28.32	345.2	5	55	3		
NANKING	28.46	253.2	5	50K	-3	10	33 -3
ULAN-BATOR	30.23	290.8	6	8	-1	11	8 4
PAOTOW	30.31	275.6	6	9	0	11	15 10
SIAN	34.04	265.8	6	42	0	12	4 0
LANCHOW	36.70	272.2	7	4	-1	12	44 -1
COLLEGE	37.92	37.4	7	16	1	13	8 5
CANTON	38.01	246.9					
HONG KONG	38.04	245.1	7	19	3	13	7 2
CHENG TU	39.48	264.7	7	28	0	13	26 -1
KUNMING	43.77	259.2	8	3K	0	14	30 0
SITKA	45.16	47.6	8	16	2		
KHEYS	46.00	346.8	8	18	-3	15	0 -2
SEMI PALATNSK	46.18	303.0	8	22	0		
LHASA	49.19	273.0	8	47A	1	15	50 3
SHILLONG	51.08	268.2	8	58K	-2		
RESOLUTE	52.43	17.9	9	11	1	16	35 3
FRUNSE	53.08	296.4	9	14	-1	16	45 4
CHATRA	53.60	272.7	9	20A	1	16	47 -1
SVERDLOVSK	53.89	317.1					
VICTORIA	55.29	53.7	9	30	-1		
THULE	55.77	10.5	9	34	-1		
BOKARO	56.44	270.9	9	39K	-1	17	28 2
PENTICTON	56.99	51.3	9	43	-1		
TASHKENT	57.24	297.5	9	44	-1	17	38 2
CORVALLIS	57.49	57.6	9	47	0		
DEHRA DUN	57.83	282.0	9	49	-1	17	45 1
KHOROG	57.99	292.6	9	51	0	17	48 2
BANFF	58.14	47.7	9	51	-1		

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1961

PAGE 733

NEW DELHI	59.48	280.9	9 58K	-3	18 4	-2	12 11	PP
LAHORE	59.63	285.4	10 0	-2	18 6	-2		
SODANKYLA	59.96	338.4	10 4	0				
TROMSOE	60.01	342.6	10 4	-1				
WARSAK DAM	60.02	289.3	10 4	-1				
SHASTA	60.26	60.9	10 7	1				
HUNGRY HORSE	60.58	49.8	10 8	0	18 29	9		
MINERAL	60.95	60.8	10 11A	0				
KIRUNA	61.12	340.9	10 11	-1	18 21	-6		
MEDAN	61.94	244.0					10 21	
BERKELEY	62.03	63.4	10 18	0			26 11	
RENO	62.54	60.6	10 39	17				
LICK	62.74	63.6	10 22K	-1				
BUTTE	62.78	51.2	10 24	1				
BOZEMAN	63.83	50.7	10 32	2				
FRESNO	64.25	63.0	10 32	-1				
UMEA	64.40	338.2	10 32	-2				
PULKOVO	64.54	331.3	10 34	-1	19 6	-4	23 17	SS
MOSCOW	64.76	325.1	10 33	-3			20 24	SCS
EUREKA	64.90	58.6	10 37	0			10 52	11 16
LEMBANG	65.09	229.1	10 36K	-2				
CHARTERS TS.	65.43	185.2	10 38	-2				
QUETTA	65.45	288.7	10 40K	-1	19 24	3	10 58	
NURMIJARVI	65.79	334.2	10 42	-1				
ASHKABAD	66.00	300.2	10 44	0	19 35	8		
SKALSTUGAN	66.54	341.3	10 46	-2				
PASADENA	66.94	64.3	10 50	0	19 46	7		
FLAMING GRGE	67.82	53.8	10 56	0				
BOULDER CITY	67.84	60.9	10 46	-10				
UPPSALA	68.38	336.9	10 58	-1				
RAPID CITY	69.07	48.0	11 3	0				
GLEN CANYON	69.16	58.3	11 4	0				
SIDA	70.75	355.0	11 17A	3				
TIFLIS	71.23	310.7	11 17K	0	20 34	5		
TEHERAN	71.64	302.4	11 20	1	20 42	8		
GORIS	71.95	308.2	11 22K	1			14 5	PP
BRISBANE	72.54	178.6	11 25	1			21 27	
WARSAW	73.69	330.7	11 31	0	21 2	4		
SIMFEROPOL	74.20	319.0	11 34K	0	21 8	5	21 43	PS
LWOW	74.59	327.7	11 37	1	21 11	3	21 45	SCS
IASI	75.31	324.1	11 41	1				
KRAKOW	75.89	330.1	11 45	1			21 27	
RACIBORZ	76.47	331.1	11 48	1			12 35	
SKALNATE PL.	76.51	329.4	11 47	0				
COLLMBERG	77.08	334.6	11 50K	0			12 3	PCP
WITTEVEEN	77.48	338.9	11 54	1				
DURHAM	77.49	344.3	11 52K	-1	21 45	6		
PRUHONICE	77.76	333.1	11 54K	0	21 45	3	14 43	PP
JENA	77.83	335.3	11 55	0	21 44	1	13 11	
MUNSTER	78.00	338.0	11 57	1				
BUCHAREST	78.15	323.2	11 56A	0			21 51	
WICHITA MTS.	78.25	52.2	11 56	-1	21 51	4	14 56	PP
CHEB	78.34	334.4	11 57	0				
BRATISLAVA	78.47	330.7	11 59K	1				
VIENNA-H.	78.66	331.1	12 0K	1				
KASPERSKE H.	78.81	333.2	12 1K	1			14 53	PP
BENSBERG	79.04	337.8	12 1K	0			13 55	
ISTANBUL KA.	79.54	319.4	12 4	0	22 7	6	15 33	PP
ISTANBUL UN.	79.60	319.5	12 4	0				
FAYETTEVILLE	79.60	48.5	12 16	12				
HEIDELBERG	80.03	336.2	12 7	0				
BELGRADE	80.10	326.9	12 7A	0	22 29	22	27 16	SS
KEW	80.36	342.4	12 9	1	22 13	3		
OTTAWA	80.41	31.5	12 7	-2				
STUTTGART	80.43	335.6	12 9	0	22 24	14		
CANBERRA	80.46	181.9	12 9A	0			12 23	
KARLSRUHE	80.47	336.2	12 8	-1	22 29	18		
SHAWINIGAN	80.47	29.1	12 8	-1				
SOFIA	80.72	323.9	12 11	1	22 21	8		
ADELAIDE	80.89	190.4	12 11A	0			12 23	
STRASBOURG	81.04	336.4	12 13K	1	22 23	6	12 39	
BREBEUF	81.09	30.2	12 12	0				
LJUBLJANA	81.19	331.1	12 13K	0			12 45	
TRIESTE	81.80	331.4	12 15	-1	22 32	7		
KSARA	81.81	310.6	12 18	2	22 37	12	24 18	PPS
BASLE	82.04	336.1	12 7	-10	22 18	-9		
PARIS	82.21	339.8	12 19	1			13 18	
BESANCON	82.74	337.0	12 21	0				

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1961

PAGE 734

FOLINIERE	82.94	341.6	12 32	10						
PENNSYLVANIA	83.48	35.3	12 24	0	22 45	3				
GARCHY	83.49	338.8	12 25	1					12 49	
MORGANTOWN	83.60	37.3	12 26A	1						
FLORENCE X.	84.29	332.1	12 26K	-3	22 49	-1				
ATHENS	84.46	321.0	12 29A	0						
PALISADES	84.86	32.6	12 32	1	22 52	-3			16 8 PP	
CLERMONT-FD.	84.88	338.2	12 33	2						
ROME	85.54	330.5	12 35	0	23 16	14	12 47		16 11 PP	
CHAPEL HILL	87.09	38.7	12 42	0						
HELWAN	87.30	311.1	12 44	1	23 23	4				
COLUMBIA	87.80	41.1	12 46	0						
BAGNERES	88.16	339.3	12 48	1						
TOLEDO	92.18	341.3	13 7	1	23 43	-20			25 27 PS	
SCOTT BASE	123.44	176.1	19 3	10						
BULAWAYO	126.88	278.6	18 59	0						
MAWSON	130.47	210.2	19 18	12						
SOUTH POLE	135.30	180.0	19 10	-5						
LA PAZ	136.21	61.7	19 33	16						

AUGUST 4 23.H 32.M 23.S EPICENTRE -25.40-179.72 DEPTH= 442.KM

A=-0.90442 B=-0.00443 C=-0.42662 D=-0.0049 E= 1.0000
G= 0.4266 H= 0.0021 K=-0.9044 HT= 3.2

DEPTH OF FOCUS= 0.065R

SE= 2.57

	DELTA DEG.	AZ. DEG.	P		D-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
RAOUL ISLAND	4.15	157.7	1	23	6	2	24	7				
SUVA	7.42	346.2	1	50	0	3	22	5				
KARAPIRO	13.12	196.7	2	53A	0							
TUAI	13.62	190.4	2	56	-2	5	25	4				
AFIAMALU	13.65	34.6	2	57	-2	5	16	-6				
WELLINGTON	16.48	194.8				6	13	-2				
COBB RIVER	16.85	200.0	3	32	1	6	24	2				
KAIMATA	18.57	201.0				6	53	0				
GEBBIES PASS	19.29	197.0				7	4	-1				
BRISBANE	24.70	259.3	4	45	0						6 57	
CANBERRA	28.64	242.4	5	21K	1							
CHARTERS TS.	31.76	272.6	5	48	1						8 19 PCP	
MOORLANDS	32.03	229.6	5	50A	0				8 27			
TARRALEAH	32.49	230.2	5	54	1				6 29			
ADELAIDE	36.95	245.0	6	30K	-1							
CAPE HALLETT	47.28	184.2	7	54	1							
SCOTT BASE	52.90	183.6	8	36A	1						9 38	
MUNDARING	55.88	247.4	8	54K	-2							
SOUTH POLE	64.75	180.0	9	55	0							
MAWSON	76.44	200.5	11	3K	-1							
ARGENTINE I.	77.09	157.0	12	9	61							
WOODY	83.64	45.1	11	44	3				13 25			
EUREKA	87.74	44.0	12	3	2				13 47			
GLEN CANYON	89.18	48.0	12	11	3				13 56			
FLAMING GRGE	92.74	45.6	12	17	-7							
COLLEGE	93.32	13.1							14 14			
WICHITA MTS.	97.30	55.1	12	46	1	22 40	1	14 33				
SODANKYLA	134.99	345.9									21 16 SKP	
KAJAANI	137.39	342.6	18	35	3						21 25 SKP	
NURMIJARVI	141.11	341.0	18	34	-6						21 34 SKP	
KSARA	148.06	293.7	18	57	7							
NIEDZIKA	151.40	332.1	19	4	9						20 57	
HELWAN	152.18	286.3	19	6	9							
COLLMBERG	152.37	342.7	19	7	10							
BANGUI	152.67	223.1	18	59	2							
KASPERSKE H.	154.14	339.7	19	0	1						21 2	

AUGUST 5 2.H 26.M 19.S EPICENTRE 60.93-148.41 DEPTH= 39.KM

A=-0.41602 B=-0.25579 C= 0.87264 D=-0.5238 E= 0.8519
G=-0.7434 H=-0.4571 K=-0.4884 HT= -9.2

DEPTH OF FOCUS= 0.001R

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1961

PAGE 735

SE= 1.64

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
COLLEGE	3.96	3.7	1	3	3	1	48	2				
SITKA	7.80	114.1	1	48	-6							
VICTORIA	18.89	119.8	4	19	-1							
PENTICTON	19.96	112.6	4	32	0							
BANFF	20.57	103.5	4	38	0							
CORVALLIS	22.12	126.3	4	56	2							
HUNGRY HORSE	23.23	107.2	5	6	1	9	17	7	5	21	8	53 PCP
RESOLUTE	23.30	32.7	5	7	1	9	20	9				
BUTTE	25.61	109.3	5	28	0	9	54	3				
SHASTA	25.78	129.9	5	31	2							
MINERAL	26.38	129.1	5	36K	1							
BOZEMAN	26.58	108.0	5	38	1	10	16	9			15	8
RENO	27.77	127.4	5	6	-42							
BERKELEY	28.31	132.7	5	54A	2							
LICK	29.01	132.2	5	59K	0							
PETROPAVLOVK	29.17	278.4	5	54	-6	10	50	2				
EUREKA	29.36	122.1	6	2	0				6	17	6	56 PP
PARAISO	29.65	134.2	6	8	4							
SALT LAKE C.	30.05	115.4	6	9	1							
FRESNO	30.19	130.1	6	10	1							
FLAMING GRGE	31.02	112.2	6	16	-1						9	11 PCP
RAPID CITY	31.47	101.5	6	21	0							
BOULDER CITY	32.82	124.1	6	33	1							
PASADENA	33.12	130.1	6	36	1	11	54	4				
GLEN CANYON	33.32	119.1	6	37	0						9	18 PCP
YAKUTSK	36.67	308.6	7	8	3							
KHEYS	37.90	353.2	7	17	1							
WICHITA MTS.	41.04	106.5	7	41	-1	13	56	5			9	41 PCP
FAYETTEVILLE	42.01	100.9	7	49A	-1						22	16
OTTAWA	43.81	76.3	8	3K	-1							
SHAWINIGAN	44.35	73.0	8	8	-1							
BREBEUF	44.73	74.7	8	11	-1							
MORGANTOWN	46.15	85.0	8	22A	-1						24	4
PENNSYLVANIA	46.25	82.3	8	23	-1	15	10	3				
PALISADES	48.00	78.9	8	37	0	15	32	0	8	51	9	42 PCP
WASHINGTON	48.11	83.2	8	34	-4							
CHAPEL HILL	49.51	87.3	8	48	-1							
HALIFAX	50.03	68.1	8	53K	0							
COLUMBIA	50.08	90.5	8	53	0							
MATUSIRO	50.96	276.5	9	0	0							
KIRUNA	51.28	5.4	9	2	-1							
SODANKYLA	51.95	2.4	9	8A	0							
SKALSTUGAN	54.95	10.4	9	30	0							
KAJAANI	55.27	2.1	9	32	0							
UMEA	55.27	6.1	9	31	-1							
ULAN-BATOR	55.78	308.1	9	37	1							
NURMI JARVI	58.77	4.0	9	57A	0							
UPPSALA	59.07	8.2	9	58A	-1							
PULKOVO	59.63	0.7	10	2	-1							
SVERDLOVSK	60.38	342.1	10	7	-1							
GOTEBORG	60.71	11.9	10	10A	0							
MOSCOW	63.59	356.2	10	28	-1							
BENSBERG	66.75	16.5	10	49	-1							
HALLE	66.82	13.2	10	50	0							
COLLMBERG	67.13	12.5	10	53A	1				11	23	11	52
JENA	67.34	13.6	10	53	0				11	23	11	53
FOLINIERE	67.63	22.3	10	55	0							
PARIS	68.12	20.3	10	59	1						11	36
PRUHONICE	68.59	11.7	11	2	1						11	24
RACIBORZ	68.82	9.2	11	3	0							
STRASBOURG	69.16	16.7	11	5	0						12	26
STUTTGART	69.18	15.6	11	5	0							
KASPERSKE H.	69.34	12.5	11	7	1				11	29		
GARCHY	69.70	20.3	11	9	1							
SAN JUAN	70.39	87.4	11	11	-1							
BRATISLAVA	70.63	10.2	11	14	0							
ROSELEND	72.16	17.5	11	22	-1							
LJUBLJANA	72.48	12.4	11	24K	-1						12	9
ANDI JAN	73.35	328.8	11	32	2							
MONACO	73.86	18.0	11	33	0							
FLORENCE X.	74.34	15.2	11	35	-1							
SIMFEROPOL	74.46	358.1	11	36	0	21	11	4				
STALINABAD	76.30	330.8	11	49	2	21	34	7				
TIFLIS	77.14	349.9	11	53	1							

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1961

PAGE 736

GRANADA	78.09	28.1				22 28
SHILLONG	81.03	307.4	12 8	-5		
CHATRA	81.66	311.8	12 16	0		
NEW DELHI	83.41	320.7	12 24A	-1		
HELWAN	89.53	0.2	12 57	2		
LA PAZ	99.63	106.4	13 20	-21		
BROKEN HILL	133.54	4.2	19 15	2		
SCOTT BASE	141.21	193.8	19 23	-4		
KIMBERLEY	147.50	11.2	19 9	-29		
SOUTH POLE	150.77	180.0	19 49	6		
MAWSON	165.00	230.3	20 57	57		

AUGUST 5 9.H 27.M 51.S EPICENTRE -19.02 -69.24 DEPTH= 114.KM

A= 0.33533 B=-0.88468 C=-0.32386 D=-0.9351 E=-0.3544
G=-0.1148 H= 0.3028 K=-0.9461 HT= 4.9

DEPTH OF FOCUS= 0.013R

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
LA PAZ	2.72	23.1	0 46K	3				0 58 PP
AREQUIPA	3.32	319.5	0 52	1				
ANTOFAGASTA	4.79	193.1	1 8	-3	1 44	-22		
HUANCAYO	9.07	318.9	2 8	-1	4 9	19		
SANTIAGO	14.41	184.7	3 17	-2				
BOGOTA	23.96	348.1	5 8	4	9 11	1		
CHINCHINA	24.65	344.6	5 12	1	9 19	-2		
FUQUENE	24.73	349.3	5 7	-5				
CARACAS	29.42	4.6	5 53K	-1	10 38	0		
TRINIDAD	30.47	15.3	6 3	-1				
GRENADA	31.74	14.1	6 13	-2				
ST. VINCENT	32.93	14.4	6 24	-1				
SAN JUAN	37.29	4.9	6 58	-4	12 31	-9	7 25	
ARGENTINE I.	46.32	177.1	8 15	-1				
TACUBAYA	48.18	320.8	8 34	4	15 38	19		
COLUMBIA	53.90	347.9	9 12	-1				
CHAPEL HILL	55.42	350.3	9 21	-3				9 51
MORGANTOWN	59.19	350.4	9 50A	-1				10 19
FAYETTEVILLE	59.68	336.7	9 53	-1				17 53 SS
PALISADES	59.87	355.9	9 58	3	17 54	-2	10 24	12 32 PP
PENNSYLVANIA	60.04	352.4	9 55	-2	17 58	-1	10 24	10 47 PCP
WICHITA MTS.	60.28	332.3	9 57A	-1	18 1	-1	10 27	12 12 PP
MBOUR	61.24	61.0	10 3	-2	18 11	-3		
HALIFAX	63.53	4.5	10 19K	-1				
OTTAWA	64.37	354.9	10 24	-1				10 52
BYRD STATION	64.89	188.5	10 39	10			10 59	
SHAWINIGAN	65.33	357.3	10 31	-1				11 0
GLEN CANYON	68.53	324.6	10 53	1				
BOULDER CITY	69.66	321.8	11 0	1				
RAPID CITY	70.06	334.6	11 1	0				
FLAMING GRGE	70.33	328.7	11 2	-1			11 31	
PASADENA	70.46	318.4	11 5K	2	20 16	10		11 34
SOUTH POLE	71.10	180.0	11 7	0				
SALT LAKE C.	71.45	327.2	11 10	1				
EUREKA	72.73	323.8	11 18	1			11 47	12 19
FRESNO	73.17	319.6	11 20	1				
PARAISO	74.49	317.9	11 25K	-2				
LICK	74.66	319.1	11 29K	1				12 1
STA. CRUZ C.	74.67	318.6	11 30	2				
BOZEMAN	74.72	331.0	11 29	1				
RENO	74.97	321.8	10 49	-41				
BRANNER	75.05	318.9	11 32	2				
BERKELEY	75.38	319.2	11 34	2				
BUTTE	75.68	330.4	11 34	0				
MINERAL	76.54	321.5	11 39K	0				
SHASTA	77.23	321.4	11 42	-1				
HUNGRY HORSE	78.07	331.3	11 48	1			12 17	
SCOTT BASE	78.20	190.3	11 47A	-1			12 18	22 43 SCS
CORVALLIS	80.19	324.0	12 0K	1				
CAPE HALLETT	80.71	195.5	12 2A	1				
BANFF	80.80	332.5	12 2K	0				
PENTICTON	81.38	329.3	12 1	-4				
SERRA PILAR	82.06	41.7	12 9A	1				12 39

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1961									PAGE 737
VICTORIA	82.75	327.1	12 12K	0					
GRANADA	83.29	47.1	12 34	19	22 31	6		15 23	PP
ALMERIA	83.92	47.8	12 48K	30	22 9	-22		13 36	
TOLEDO	84.34	44.6	12 21K	1	22 35	0	12 52	15 14	PP
KIMBERLEY	84.45	118.4	12 28	7					
MAWSON	86.79	163.5	12 31K	-1	22 56	-2	13 4		
TORTOSA	87.84	45.4			23 13	5			
BAGNERES	88.64	43.3	12 41	0					
BULAWAYO	90.61	111.4	12 50K	0					
FOLINIÈRE	90.92	38.1	12 50	-2					
BROKEN HILL	92.45	106.1	13 0	1					
MONACO	93.73	45.0	13 4	0				13 36	
FLORENCE X.	96.32	46.0	12 29	-47	23 21	-20			
ROME	96.53	48.0			23 46	4		25 59	PS
STUTTGART	96.79	40.8	13 17	-1					
LWIRO	96.87	94.7						23 57	
COLLMBERG	99.90	39.2	13 32	-1				17 35	PP
PRUMONICE	100.44	40.7	13 37	2				17 36	PP
COLLEGE	102.29	334.6	13 42	-1				17 49	PP
ISTANBUL KA.	108.38	52.0						27 55	
SIMFEROPOL	112.54	48.4						28 33	
KSARA	112.64	60.5						19 13	PP
CHARTERS TS.	127.83	223.7	18 54	2				19 26	
YAKUTSK	135.04	347.5						21 32	
STAL INABAD	138.79	52.8						22 8	
FRUNSE	141.39	44.1	19 20	3					
POONA	145.09	84.7	19 24K	0					
IRKUTSK	146.43	7.2	19 28K	2					
GUAM	146.95	265.5	19 29	2			19 56		
MATUSIRO	150.24	311.6	19 39K	7				43 5	*SSS
LEMBANG	154.13	172.8	19 42A	5				23 38	

AUGUST 7 4.H 2.M 19.S EPICENTRE 42.47 142.22 DEPTH= 79.KM

A=-0.58475 B= 0.45329 C= 0.67276 D= 0.6127 E= 0.7903
 G=-0.5317 H= 0.4122 K=-0.7399 HT= -2.6

DEPTH OF FOCUS= 0.007R

SE= 4.56

	DELTA	AZ.	P	O-C	S	O-C	*PP	SUPP.
	DEG.	DEG.	M S	S	M S	S	M S	M S
TOMAKOMAI	0.50	288.7	0 15	-1	0 28	1		
URAKAWA	0.53	127.5	0 10A	-6	0 19	-9		
HIROO	0.84	102.9	0 14A	-4	0 26	-6		
OBIHIRO	0.85	58.0	0 20A	1	0 36	4		
SAPORO	0.87	313.4	0 19K	0	0 35	2		
MURORAN	0.93	261.0	0 15K	-4	0 30	-4		
HAKODATE	1.27	239.1	0 18K	-5	0 32	-9		
MORI	1.28	253.6	0 20K	-3	0 35	-6		
ASAHI GAWA	1.31	4.8	0 27	3	0 49	7		
SUTTSU	1.50	283.2	0 25	-1	0 50	4		
RUMOE	1.54	343.7	0 29	2	0 54	7		
KUSIRO	1.69	71.8	0 28K	-1	0 50	0		
AOMORI	1.97	213.6	0 27	-5	0 44	-12		
HATINOHE	2.01	195.1	0 23	-10	0 42	-15		
ABASHIRI	2.16	43.6	0 40	5	1 4	3		
NEMURO	2.61	69.7	0 40	-1	1 9	-3		
MIYAKO	2.83	183.9	0 34	-10	0 58	-20		
MORIOKA	2.88	196.3	0 37	-8	1 3	-16		
WAKKANAI	2.97	352.7	0 54	8				
AKITA	3.18	210.9	0 46	-3	1 9	-17		
MIZUSAWA	3.44	194.2	0 47	-6	1 21	-12		
SAKATA	4.00	207.7	1 6	5				
ISINOMAKI	4.10	189.9	0 52	-10	1 33	-16		
SENDAI	4.32	193.9	0 59	-6	1 41	-14		
YAMAGATA	4.45	199.3	1 1	-6	1 49	-9		
HUKUSIMA	4.90	196.4	1 6	-7	1 58	-11		
SHIRAKAWA	5.56	196.7	1 12	-10	2 15	-10		
ONAHAMA	5.61	190.9			2 11	-6		2 11
UTUNOMIYA	6.19	197.8	1 4	-27	2 23	-18		
KAKIOKA	6.43	194.9	1 14	-20	2 30	-17		
TUKUBASAN	6.46	195.4	1 21A	-14	2 28	-20		
MAEBASI	6.53	202.9	1 58	22	2 53	4		
NAGANO	6.57	209.5	1 39	3				
MATUSIRO	6.69	208.9	1 29	-9	2 36	-17		

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1961

PAGE 738

KUMAGAYA	6.69	200.1	1 36	-2	2 59	6	
OI WAKE	6.76	206.0	1 37	-2			
TYOSI	6.83	189.4	2 36	56	3 0	3	
TITIBU	6.93	201.6	2 45	64			
TOKYO C.M.O.	7.05	196.6					2 46
KOHU	7.36	203.9					2 5
HUNATU	7.46	202.2			3 3	-10	
IIDA	7.74	207.6	2 3	11			
AJIRO	7.80	199.2	1 51	-2			
ABUYAMA	9.20	216.6	2 4A	-8			
COLLEGE	44.23	35.1	8 3	0			8 23
SHILLONG	44.34	264.2	8 1K	-3			
CHATRA	47.10	269.0	8 25K	-1			
NEW DELHI	53.49	277.3	9 12A	-3			
RESOLUTE	57.20	15.4	9 40	-1			
THULE	59.80	8.0	9 58	-1			
QUETTA	59.96	284.8	9 59	-1			10 5
SODANKYLA	60.22	336.3	10 1	-1			
TROMSOE	60.79	340.4	10 6	0			
KIRUNA	61.67	338.5	10 11	-1			
KAJAANI	62.00	333.1	10 14	0			
PENTICTON	63.90	46.2	10 23	-4			
UMEA	64.59	335.4	10 25	-6			
NURMI JARVI	65.46	331.2	10 35A	-2			10 57
SKALSTUGAN	67.09	338.1	10 45	-2			
HUNGRY HORSE	67.43	44.6	10 49	0			
UPPSALA	68.36	333.4	10 54	-1			
BRISBANE	70.19	170.0	11 24	18			
GOTEBORG	71.88	334.5	11 16	-1			
EUREKA	72.01	52.8	11 17	0			11 33
CHINA LAKE	73.40	56.6	11 25	0			
FLAMING GRGE	74.80	48.2	11 39	5			12 35
NIEDZIKA	75.27	325.0	11 36	0			11 54
PRUHONICE	77.18	328.4	11 47A	0			
JENA	77.53	330.5	11 47	-2			
KASPERSCHE H.	78.24	328.4	11 53	0			
KSARA	78.50	305.4	11 55	1			
JERUSALEM	80.31	304.3	12 5	1			
LJUBLJANA	80.35	326.0	12 4A	0			
PARIS	82.44	334.5	12 16	1			
FOLINIERE	83.39	336.2	12 20	0			
GARCHY	83.59	333.4	12 27	6			12 52 PCP
WICHITA MTS.	85.17	46.2	12 28	-1			12 51
CARACAS	120.91	33.9	18 25	-19			
SOUTH POLE	132.28	180.0	19 4	-1			

AUGUST 7 4.H 22.M 27.S EPICENTRE -2.64 122.18 DEPTH= 63.KM

A=-0.53208 B= 0.84546 C=-0.04574 D= 0.8463 E= 0.5326
G= 0.0244 H=-0.0387 K=-0.9990 HT= 7.1

DEPTH OF FOCUS= 0.005R

SE= 1.98

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
DARWIN	12.92	138.9	2	57	-5	5	24	-1				
LEMBANG	15.10	253.5	3	29	-2						8 50	
DJAKARTA	15.71	256.5	3	39K	1						7 57	
MANILA	17.23	356.4	4	0	3	7	25	20				
BAGUIO CITY	19.00	355.3	4	17	-2	7	41	-4				
NHATRANG	19.60	319.1	4	26	1	8	14	16				
MEDAN	24.29	284.6	5	12A	0	9	15	-9				
HONG KONG	25.99	342.9	5	30	2	9	45	-7				
CANTON	26.99	341.8	5	36A	-2	10	16	8				
CHARTERS TS.	29.21	128.2	5	57	0							
MUNDARING	29.71	190.3	6	1	-1							
PERTH	29.76	190.9				12	26	93			6 53	
RABAU	29.97	93.8	6	6	2							
KUMING	33.42	326.8	6	36A	2	12	1	11				
ZO-SE	33.56	358.4	6	36A	0	11	58	6				
NANKING	34.66	354.9	6	46A	1	12	17	8				
ADELAIDE	35.65	156.4	6	52A	-2							
CHENG TU	37.38	333.7	7	7	-1	12	56	5				
HONIARA	38.13	101.9	7	15	1							
BRISBANE	38.23	133.0	7	19	4	12	51	-13				

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1961

PAGE 739

SIAN	38.76	342.3	7 20A	0	13 21	9		
SHILLONG	40.60	315.5	7 38A	3	13 54	14	9 24	PP
MELBOURNE	40.78	152.0	7 36	0				
CANBERRA	40.94	145.7	7 37	-1	13 52	7	7 41	9 20 PP
RIVERVIEW	41.16	142.2	7 41A	2	13 55	7		10 13 PP
MATUSIRO	41.74	19.5	7 43A	-1	14 0	4		12 12
LANCHOW	42.14	337.6	7 48A	1				
PEKING	42.82	353.2	7 52A	-1	14 15	3		
VISHAKHAPTNM	43.34	299.3	7 58	1	14 24	4	9 47	
LHASA	43.80	319.4	8 2A	1	14 34	8		
BOKARO	44.10	308.7	8 2	-1				
PAOTOW	44.42	346.8	8 0	-6				
MADRAS	44.49	291.5	8 6	-1	14 58	21	18 28	
CHATRA	44.72	313.2	8 10	2	14 45	5		
TARRALEAH	45.07	154.5	8 12	1				
MOORLANDS	45.50	154.0	8 17	2				
FORT NELSON	45.96	154.2					18 35	SS
CHANGCHUN	46.34	3.1	8 20	-1	15 13	10		
VLADIVOSTOK	46.39	9.8	8 24	2				
ULAN-BATOR	52.10	347.0	9 4	-1	16 19	-4		
Y.-SAKHLINSK	52.65	17.6	9 9	-1	16 35	4		
NEW DELHI	53.15	309.0	9 11	-2	16 41	3	11 13	PP
LAHORE	56.74	310.8	9 38	-1				
IRKUTSK	56.76	347.0	9 38	-1	17 30	4		
WARSAK DAM	59.94	312.1	10 7	5				
KARAPIRO	60.04	132.9	10 0	-2				
TUAI	61.53	133.3	10 11	-1				
QUETTA	61.88	306.3	10 12	-3	18 41	9		
FRUNSE	62.30	322.2	10 17A	-1	18 44	7		
ANDI JAN	62.61	319.2	10 18	-2	18 50	9		
NAMANGAN	63.18	319.1	10 23	-1	18 57	9		
PETROPVLOVK	63.33	23.7	10 25	1	19 1	11		
SEMI PALATNSK	63.87	331.6	10 26	-2				
STALINABAD	64.00	315.5	10 27	-2	19 2	4		
YAKUTSK	64.74	3.9	10 30	-4	19 11	3		
TASHKENT	64.93	318.4	10 33	-2	19 15	5		
MAGADAN	65.97	15.5	10 41	0				
AFIAMALU	66.11	104.0	10 45	3				
MIRNY	66.99	192.2	10 46	-2	19 40	5		
TANANARIVE	74.61	251.2	11 34K	0			12 23	
CAPE HALLETT	75.65	166.4	11 40	0	21 21	6		
MAWSON	76.25	199.8	11 41A	-2	21 27	6	12 0	11 50 PCP
SCOTT BASE	78.73	171.3	11 56A	-1	21 50	2		
MAKHACH-KALA	80.64	314.2	12 6	-1	22 14	6		
GORIS	80.80	310.5	11 8A	-60				
TIFLIS	82.36	312.5	12 17	1				
SOUTH POLE	87.38	180.0	12 41	0				
KSARA	88.38	303.8	12 47	1	23 45	21	16 20	PP
KHEYS	88.49	351.5	12 47	1				
JERUSALEM	88.79	301.7	12 50	2				
MOSCOW	89.09	325.7	12 49	0	23 38	7		
APATITY	91.94	337.4	12 59	-4				
HELWAN	92.04	299.7	13 3	0	24 15	18		
BYRD STATION	92.15	171.2	13 3	-1				
COLLEGE	92.37	25.3	13 6	2	23 49	-11	17 3	PP
BULAWAYO	92.46	249.8	13 6A	1			22 14	
BROKEN HILL	92.94	255.5	13 7A	0				
PULKOVO	93.20	329.6	13 7	-1	24 13	6		
LWIRO	93.28	267.6	13 10	1				
ISTANBUL KA.	94.07	310.8	13 18	6	23 47	-28	16 57	PP
KISHINEV	94.21	316.8					17 3	PP
KAJAANI	94.32	333.9	13 13	0				
SODANKYLA	94.57	337.3	13 13	-1				
NURMI JARVI	96.00	330.4	13 20	-1				
KIRUNA	96.87	338.0	13 24	-1	24 1	6	24 44	S
LWOW	97.27	319.7					17 27	PP
UMEA	97.63	334.0	13 23	-5				
UPPSALA	99.57	330.3	13 37	0	24 13	4		
SKALSTUGAN	101.13	334.6	13 43	-1				
COPENHAGEN	103.22	326.8			25 39	73	18 3	PP
PRUHONICE	103.31	320.8	17 30	216	25 36	69	18 12	PP
KASPERSKE H.	104.11	320.1	17 29	212			18 14	PP
JENA	104.94	322.2			24 39	5	17 41	PP
ROME	106.37	312.9			25 34	53	18 3	PP
STUTT GART	106.95	320.4			24 46	3	18 42	PP
EUREKA	115.91	47.0	18 38	3				
GLEN CANYON	120.01	48.3	18 32	-11				
FLAMING GRGE	120.02	43.3	18 47	4				

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1961

PAGE 740

TUCSON	122.24	53.2	18 52	4					
RAPID CITY	122.50	37.5	18 51	3					
WICHITA MTS.	130.47	45.0	19 7	4					21 19 PP
PALISADES	139.14	18.7	19 40	21	26	4	-17		21 40 PP
LA PAZ	158.43	152.2	19 54	4					24 9 PP
CHINCHINA	162.09	82.0	19 55	2					31 18 SKKS
BOGOTA	163.66	82.6							31 22 SKKS
CARACAS	168.05	48.8	21 11	72					45 56 SS

AUGUST 7 12.H 22.M 20.5 EPICENTRE -28.27-176.45 DEPTH= 0.KM

A=-0.88040 B=-0.05463 C=-0.47108 D=-0.0619 E= 0.9981
G= 0.4702 H= 0.0292 K=-0.8821 HT= 2.4

SE= 2.75

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
RAOUL ISLAND	1.62	232.4	0	31	1	1	1	9				
SUVA	11.11	333.9	2	47	4	4	48	-1				
KARAPIRO	11.74	212.8	2	45	-7						3	9
TUAI	11.78	205.3	2	47	-5	4	54	-12				
WELLINGTON	14.84	206.7	3	37	4	6	1	-18				
AFIAMALU	14.93	17.9	3	26	-8	6	2	-19				
COBB RIVER	15.56	211.9				6	19	-17				
NOUMEA	16.56	287.2	3	58K	3	7	25	26				
KAIMATA	17.30	211.5	4	2	-2	7	4	-12				
PORT VILA	17.49	303.6	4	10K	3							
GEBBIES PASS	17.72	206.8	4	9	-1	7	8	-18				
KOUMAC	19.14	289.4	4	20K	-7							
BRISBANE	27.19	264.5	5	45	-2	9	34	-51				
RIVERVIEW	28.24	250.5									6	42 PP
CANBERRA	30.09	247.7	6	12	-1	11	7	-5				
MOORLANDS	32.59	234.6	6	42	7							
MELBOURNE	33.52	243.4	6	42	-1							
CHARTERS TS.	34.87	275.1	6	53	-2						14	23
ADELAIDE	38.51	248.4	7	24K	-2							
CAPE HALLETT	44.69	185.8	8	18	2	15	12	19			18	21 SS
SCOTT BASE	50.26	184.6	9	1	1	16	6	-6			11	0 PP
BYRD STATION	56.78	169.9	9	47	-1							
SOUTH POLE	61.90	180.0	10	23	-1							
MIRNY	64.64	206.3	10	40	-2	19	23	2				
ARGENTINE I.	73.31	156.0	11	34	-1							
LEMBANG	74.42	270.6	11	40K	-2							
MAWSON	74.77	200.0	11	43K	-1				11	56		
MATUSIRO	77.29	324.0	11	55A	-3	21	44	-4			26	48 SS
PASADENA	83.03	45.3	12	28	-1	22	55	7			34	4 SSS
LICK	83.07	41.0	12	29K	0							
BERKELEY	83.08	40.3	12	30	1	22	54	6				
HONG KONG	83.69	299.3	12	31	-1	22	56	2				
FRESNO	83.76	42.4	12	32	0							
PETROPAVLOVK	83.80	345.2	12	30	-3	22	57	2				
CANTON	84.76	299.5	12	37A	0							
SHASTA	84.97	38.2	12	37	-1							
MINERAL	85.16	38.8	12	39A	0							
VLADIVOSTOK	85.42	324.8	12	40	-1							
RENO	85.62	40.4	12	3	-39							
TUCSON	86.65	50.6	12	48	1				13	0		
NANKING	86.96	309.8	12	43A	-5	23	25	-2			23	13 SKS
EUREKA	87.82	42.4	12	51	-1							
GLEN CANYON	88.97	46.5	12	59	1							
CHANGCHUN	89.37	322.0	12	58A	-2	23	55	6				
VICTORIA	89.95	32.1	13	1	-2							
SALT LAKE C.	91.09	43.3	13	8	0							
PENTICTON	92.32	33.2	12	59	-14							
PEKING	92.37	314.8	13	12A	-2	24	21	5			23	45 SKS
FLAMING GRGE	92.69	44.3	13	14	-1							
BUTTE	93.86	38.8	13	20	0							
SIAN	94.03	306.8	13	22A	1	24	41	11				
KUNMING	94.08	296.2	13	22	0	24	43	13			24	0 SKS
AREQUIPA	94.92	111.5	13	28	3							
COLLEGE	95.47	11.9	13	26	-2						17	21 PP
CHENG TU	95.80	301.6	13	27	-2	24	5	0			24	49 S
WICHITA MTS.	96.56	54.2	13	32	-1							
LA PAZ	97.64	113.2									17	38 PP
RAPID CITY	98.24	44.2	13	40	0							

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1961

PAGE 741

LANCHOW	98.54	306.3	13 41	-1					
YAKUTSK	99.78	337.3							17 25 PP
PALISADES	116.93	56.0			25 43	4			29 47 PS
KHEYS	123.28	350.8	18 56	-3					
BULAWAYO	126.13	209.5	19 6	1					
SVERDLOVSK	131.08	322.3							22 36 PP
BROKEN HILL	131.16	212.8	18 44	-30					
KIRUNA	139.13	350.3	19 26	-3					
UMEA	142.84	347.8	19 33	-2					
MOSCOW	143.30	328.0	19 30	-6					
PULKOVO	143.59	337.4	19 32	-5					
TIFLIS	143.98	302.9	19 36	-1					
SKALSTUGAN	144.23	353.3	19 34	-4					
NURMIJARVI	144.74	342.0	19 36	-3					
UPPSALA	146.99	347.0	19 43	0					
SOTCHI	147.26	307.5	19 44	1					
GOTEBORG	149.99	350.9	19 52	5					
SIMFEROPOL	150.58	312.7	19 53	5					
KSARA	151.82	289.5	19 57	7					
COPENHAGEN	151.86	349.3	20 28	38					43 12 SS
BANGUI	152.26	213.8	19 58	7			20 8		
KISHINEV	152.78	320.3	19 48	-4					
LWOW	153.40	329.6	19 53	1					23 46
RACIBORZ	155.52	336.8	20 22	27					20 46
HELWAN	155.69	280.5							20 15
JENA	156.56	347.2	20 7	10					20 43
PRUHONICE	156.75	341.8	20 6	9					20 27 PKP2
BENSBERG	157.17	354.1	20 28	31					20 53
BRATISLAVA	157.52	335.8	19 54	-4					
KASPERSKE H.	157.78	342.4	20 22	24					20 42
SOFIA	158.47	317.2							20 33
STUTTGART	159.05	349.4	19 57	-3					24 13 PP
PARIS	159.47	2.0							24 16
LJUBLJANA	160.25	336.9	19 59	-2					
TARANTO	163.41	320.7	20 46	42					24 48 PP
ROME	164.57	334.2	20 4	-1					24 46 PP
GRANADA	169.27	32.3	21 43A	94					25 12 PP

AUGUST 8 O.H 18.M 47.S EPICENTRE -28.32-176.29 DEPTH= 0.KM

A=-0.87978 B=-0.05707 C=-0.47194 D=-0.0647 E= 0.9979
G= 0.4710 H= 0.0306 K=-0.8816 HT= 2.4

SE= 2.24

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	O-C S	M	S	M	S
RAOUL ISLAND	1.70	236.8	0	32	1							
SUVA	11.23	333.3	2	44	-1							
KARAPIRO	11.77	213.4	2	48	-4							
TUAI	11.79	205.9	2	47	-6	4	54	-12				
WELLINGTON	14.86	207.2				6	2	-18				
AFIAMALU	14.94	17.2	3	28	-6	6	4	-18				
COBB RIVER	15.59	212.4				6	24	-13				
NOUMEA	16.71	287.1	4	0K	3	7	29	26				
KAIMATA	17.32	211.9				6	51	-26				
KOUMAC	19.29	289.3	4	29A	0						5	24
BRISBANE	27.33	264.6	5	48	-1							
RIVERVIEW	28.35	250.6				10	44	0				
CANBERRA	30.20	247.8	6	13	-1							
MOORLANDS	32.67	234.7									11	7
MELBOURNE	33.62	243.5	6	43	-1							
CHARTERS TS.	35.02	275.1	6	55	-1						8	28
CAPE HALLETT	44.65	185.8	8	17	1	15	0	7			18	22 SCS
SCOTT BASE	50.22	184.6	8	58	-2	16	4	-8	9	5		
BYRD STATION	56.70	169.9	9	47	-1							
SOUTH POLE	61.84	180.0	10	24	1							
MIRNY	64.65	206.3	10	41	-1							
ARGENTINE I.	73.21	155.9	11	34	-1							
MAWSON	74.77	199.9	11	44	0				12	1	11	56 PCP
MATUSIRO	77.42	323.9	11	57K	-2	21	44	-5			27	6 SS
HONG KONG	83.84	299.2				22	57	1				
PETROPAVLOVK	83.89	345.1	12	31	-2	22	53	-3				
CHINA LAKE	84.41	44.2	12	36	0							
CANTON	84.91	299.5				23	6	-1				
VLADIVOSTOK	85.54	324.7	12	41	0							

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1961										PAGE 742	
NANKING	86.11	309.6	12	44	0	23	17	-1			
BOULDER CITY	86.24	45.6	12	47	2						
TUCSON	86.58	50.5	12	49	2						
GLEN CANYON	88.90	46.4	13	59	61						
CHANGCHUN	89.51	321.9	13	2A	1	23	56	6			
FLAMING GRGE	92.63	44.2	13	16	1						
COLLEGE	95.50	11.8	13	27	-1					14	39
CHENG TU	95.95	301.5	13	32	2	24	9	3		24	54 S
WICHITA MTS.	96.48	54.1	13	33	0	24	13	4		24	59 S
PAOTOW	96.73	312.6				24	9	-2		25	5 S
PALISADES	116.84	55.9								29	48 PS
SVERDLOVSK	131.21	322.2								22	39 PP
KIRUNA	139.21	350.4								40	40 PKPPKS
MOSCOW	143.42	328.0	19	34	-3						
PULKOVO	143.70	337.5	19	33	-4						
TIFLIS	144.13	302.9	19	37	-1						
SKAL STUGAN	144.30	353.4	19	36	-2						
NURMI JARVI	144.84	342.1	19	38	-1						
UPPSALA	147.07	347.1	19	44	1						
GOTEBORG	150.07	351.1	19	52	4						
SIMFEROPOL	150.72	312.7	19	55	6						
COPENHAGEN	151.95	349.5	19	38	-12						
KSARA	151.98	289.4	19	53	2					23	33 PP
BANGUI	152.29	213.5	19	58	7					20	21
KISHINEV	152.92	320.4	20	6	14						
LWOW	153.52	329.7								20	11
KASPERSKE H.	157.88	342.6	20	10	11						
ROME	164.68	334.5				26	59	-9		20	59 PKP2

AUGUST 8 12.H 18.M 19.S EPICENTRE 51.15-170.63 DEPTH= 0.KM

A=-0.62141 B=-0.10249 C= 0.77675 D=-0.1627 E= 0.9867
G=-0.7664 H=-0.1264 K=-0.6298 HT= -5.8

SE= 2.06

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
COLLEGE	18.14	32.1	4	11	-4	7	31	-4				
PETROPAVLOVK	18.90	287.7	4	23	-1						4	35 PP
SITKA	21.35	60.2	4	51	0	9	1	17				
MAGADAN	23.18	306.2	5	9	0							
VICTORIA	30.16	76.2	6	14K	0							
NEMURO	30.36	272.4	6	20	5							
Y.-SAKHLINSK	30.42	280.8	6	15	-1						7	9 PP
SEATTLE	31.20	77.2	6	25	2	11	49	20				
KIPAPA	31.28	156.9	6	25	2							
KUSIRO	31.28	272.7	6	23	-1	11	28	-2				
HONOLULU	31.37	157.1	6	25	1	11	30	-2				
WAKKANAI	31.79	278.6	6	1	-27	11	40	2				
PENTICTON	32.15	72.9	6	31	0							
URAKAWA	32.73	272.6	6	38	2							
SAPPORO	33.15	275.0	6	13	-27	11	53	-6				
YAKUTSK	33.38	312.3	6	38	-4						7	58 PPP
TIKSI	33.38	329.9	6	40	-2						8	41
BANFF	33.86	67.9	6	47K	1							
HAWAII V.OB.	33.90	153.4	6	46	0	12	16	5				
SUTTSU	33.99	275.4	6	50	3	12	8	-4				
MORI	34.15	274.1	6	49	0							
HAKODATE	34.19	273.5	6	54	5							
HATINOHE	34.41	271.0	6	52	1	12	16	-3				
SHASTA	34.57	88.4	6	53K	1							
MIYAKO	34.63	269.4	6	51	-2	12	45	23				
AOMORI	34.72	272.0	6	51	-2	12	29	5				
UKIAH	34.95	91.3	6	55	0							
MORIOKA	35.11	270.1	6	43	-14	12	36	6				
MINERAL	35.26	88.3	6	59	1						7	28
MI ZUSAWA	35.46	269.4	7	0	0	12	22	-13				
ISINOMAKI	35.76	268.2	7	1	-1							
AKITA	35.77	271.0	7	0	-2	12	37	-3				
HUNGRY HORSE	35.91	71.7	7	4	0	12	45	3				
SENDAI	36.12	268.4	7	1	-4	12	41	-4				
SAN FRANCISCO	36.24	92.5	7	7	1							
BERKELEY	36.30	92.3	7	7K	0	12	51	3				
YAMAGATA	36.48	268.8	7	8	0							
BRANNER	36.63	92.8	7	9K	-1							

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1961										PAGE 743	
HUKUSIMA	36.70	268.0	7 11	1	12 51	-3					
RENO	36.85	88.1	6 33	-39							
ONAHAMA	36.92	266.6	7 11	-1							
STA. CRUZ C.	37.00	93.2	7 13K	0						7 36	
LICK	37.01	92.5	7 13K	0							
PARAISO	37.18	94.4	7 20A	6							
SHIRAKAWA	37.24	267.4	7 16	1							
NIIGATA	37.49	269.4	7 18	1						11 39	
VINEYARD	37.54	93.0	7 18K	1							
MITO	37.55	266.2	7 19	2	13 11	4					
RESOLUTE	37.81	24.9	7 20	0	13 5	-6				8 49 PP	
UTUNOMIYA	37.82	266.9	7 17	-3	13 10	-1					
KAKIOKA	37.82	266.3	7 21	1							
TUKUBASAN	37.88	266.3	7 18	-2	13 7	-5	7 27			9 24 PCP	
BUTTE	37.88	74.4	7 20	0	13 8	-4					
KUMAGAYA	38.38	266.8	7 25	1						9 27	
HONGO	38.41	266.0	7 0	-25						13 36	
MAEBASI	38.42	267.4	7 24	-1	13 27	7					
TOKYO C.M.O.	38.44	265.9	7 30	5	13 25	4					
TAKADA	38.50	268.9	7 24	-1							
FRESNO	38.52	91.7	7 27K	1							
YOKOHAMA	38.66	265.7	7 29	2							
OI WAKE	38.79	267.7	7 23	-5	13 28	2					
NAGANO	38.79	268.4	7 29	1	13 27	1					
MATUSIRO	38.87	268.3	7 27K	-1	13 25	-2				9 0 PP	
HERA	38.88	264.9	7 29	0	13 27	0					
BOZEMAN	38.98	74.0	7 29	0	13 27	-2					
VLADIVOSTOK	39.01	281.3	7 29	-1						9 49 PCP	
HUNATU	39.17	266.5	7 45	14							
KOHU	39.20	266.9	7 37	6							
MATUMOTO	39.20	268.1	7 33	2							
OSIMA	39.26	265.1	7 34	2							
MISIMA	39.30	265.9	7 35	3							
EUREKA	39.30	85.4	7 33	1						8 54 PP	
TOYAMA	39.41	269.3	7 38	5							
IIDA	39.75	267.3	7 37	1							
OMAESAKI	40.09	265.9	7 52	13							
HUKUI	40.42	269.2	7 39	-2							
GIHU	40.49	268.0	7 44	2							
NAGOYA	40.51	267.6	7 45	3	14 0	8					
TSURUGA	40.78	268.9	7 46	2							
HIKONE	40.90	268.3	7 50	5							
KAMEYAMA	41.03	267.6	7 56	10	13 59	-1					
SALT LAKE C.	41.13	80.9	7 48	1						17 1 SCS	
PASADENA	41.21	93.5	7 48K	0	14 6	4				9 32 PP	
KYOTO	41.39	268.4	7 48	-1							
ABUYAMA	41.59	268.4	7 47	-4							
OWASE	41.71	267.0	7 55	3							
BOULDER CITY	42.15	88.8	7 56	1							
FLAMING GRGE	42.57	79.1	7 59	0	14 10	-12				9 20 PP	
CHANGCHUN	42.66	286.2	7 58K	-2	14 15	-9					
GLEN CANYON	43.57	85.2	8 7	0						10 3	
KOTI	43.73	268.5	8 9	1	14 37	-2					
RAPID CITY	44.55	71.6	8 14	-1			8 25			11 46	
LARAMIE	44.69	76.2	8 14	-2						9 57	
SIMONSEKI	45.10	271.0	8 22	3							
OOITA	45.14	269.7	8 21	1	14 54	-6					
KHEYS	45.73	350.1	8 24	0						10 8 PP	
KUMAMOTO	45.99	270.0	8 29	3	15 9	-3					
MIYAZAKI	46.14	268.5	8 30	2	15 15	1					
KAGOSIMA	46.92	268.8	8 35	1	15 37	12					
TUCSON	47.09	89.7	8 35	0						10 8 PCP	
IRKUTSK	49.74	306.7	8 55K	-1	15 58	-7				10 56 PP	
PEKING	50.40	287.4	8 59K	-2	16 7	-7					
ULAN-BATOR	50.93	300.8	9 3	-2	16 20	-1					
LUBBOCK	51.84	81.8	9 11	-1							
GUAM	51.99	240.2	9 8	-5	16 29	-7	9 21				
CHIHUAHUA	52.55	89.5								13 11 PP	
WICHITA MTS.	53.11	78.5	9 20K	-1	16 48	-3				11 37 PP	
ZO-SE	53.13	275.5	9 20A	-1							
PAOTOW	53.69	291.7	9 25K	-1	16 52	-7					
NANKING	53.98	278.1	9 26K	-2	16 59	-4					
FAYETTEVILLE	54.89	74.3	9 32K	-2	17 14	-1					
DALLAS	55.48	78.9	9 38	-1							
SIAN	58.55	286.8	9 59K	-1	18 3	-1					
OTTAWA	59.12	54.9	10 2	-2							
TROMSOE	59.33	356.1	10 4	-2	18 13	-1				39 43 PKPPKP	
SHAWINIGAN	59.83	52.3	10 10	1							

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1961

PAGE 744

GUADALAJARA	59.99	93.9							15 53
APATITY	60.24	349.6	10 11	-1	18 23	-3			
LANCHOW	60.34	291.6	10 12K	-1					
MORGANTOWN	60.81	62.2	10 14K	-2					12 28 PP
KIRUNA	61.05	355.2	10 16K	-2	18 31	-5			12 37 PP
SODANKYLA	61.09	352.5	10 16	-2	18 36	0			39 33 PKPPKP
PENNSYLVANIA	61.15	60.0	10 16	-2	18 37	0			39 37 PKPPKP
SEMIPALATNSK	62.30	316.9	10 23	-3					18 49
REYKJAVIK	62.49	14.9	10 28A	1					
GEORGETOWN	62.92	61.0	10 29	-1	18 59	0			
WASHINGTON	62.92	61.0	10 29	-1	18 59	0			12 41 PP
PALISADES	63.13	57.4	10 30K	-2	19 2	0			12 56 PP
SIDA	63.41	13.2	10 33K	0					
TACUBAYA	63.53	91.6	10 32K	-2					
RABAU	63.65	222.3	10 33	-2					
CANTON	63.71	274.7	10 35K	0	19 6	-3			
HONG KONG	63.76	273.4	10 34	-2	18 56	-14			
CHAPEL HILL	63.93	64.6	10 35	-2					11 0
CHENG TU	64.02	287.2			19 11	-2			
COLUMBIA	64.15	67.4	10 37	-1	19 11	-4			
KAJAANI	64.22	351.2	10 38	-1					
SVERDLOVSK	64.39	331.6	10 40	0					13 6 PP
AFIAMALU	64.79	181.2	10 43	1	19 21	-2			
MANILA	65.10	262.4	10 43	-1	19 15	-12			
SKALSTUGAN	65.59	358.6	10 46K	-2					
VERA CRUZ	65.61	89.4							13 13 PP
HALIFAX	65.67	48.5	10 47K	-1					
NURMIJARVI	68.01	351.9	11 2K	-1	19 59	-3			39 17 PKPPKP
PULKOVO	68.14	348.8	11 3	-1	19 55	-8			13 39 PP
KUNMING	68.81	283.9	11 6K	-2	20 10	-1			
UPPSALA	69.15	355.5	11 9K	-1	20 8	-7			39 14 PKPPKP
SUVA	69.67	191.1			20 24	3			17 39
PORT MORESBY	70.47	224.7	11 17	-1	20 31	0			
FRUNSE	70.60	314.9	11 18	-1					14 0 PP
MOSCOW	70.93	343.5	11 20	-1					14 0 PP
GOTEBORG	71.49	358.5	11 24K	0					11 48 PCP
ABERDEEN	71.63	6.6	11 25A	0	20 43	-1			14 4 PP
LHASA	72.37	295.3	11 30K	1	20 48	-5			
TOCKLAI	72.39	290.7	11 32K	2	20 58	5			
COPENHAGEN	73.51	358.2	11 37K	1	21 9	3			25 41 SS
DURHAM	74.05	6.6	11 42K	3	21 15	3			21 52 SKS
TASHKENT	74.15	317.4	11 39	-1					14 26 PP
NHATRANG	74.42	270.2	11 42	1	21 11	-5			
BERMUDA	74.48	57.6	11 38	-4	21 16	-1			
KOUMAC	74.73	204.3	11 43	0					
SHILLONG	74.98	292.0	11 42K	-3	21 18	-4			21 47 SKS
NOUMEA	75.87	201.8	11 50	0					
KHOROG	76.31	313.6	11 53	1					21 37
WITTEVEEN	76.38	1.7	11 55	2					
CHATRA	76.71	296.2	11 54K	0	21 40	-1			14 48 PP
DE BILT	77.06	2.6	12 0	4	21 44	-1			
MUNSTER	77.24	1.1	11 58	1					
KEW	77.43	6.2	11 59K	1	21 50	1			15 3 PP
CHITTAGONG	77.45	289.9	11 38	-21	21 11	-38			
HALLE	77.70	358.3	12 0	0	21 53	1			
COLLMBERG	77.88	357.7	11 59	-2	21 55	1			27 12 SS
BENSBERG	78.25	1.4	12 3K	0			12 17		15 3 PP
JENA	78.28	358.6	12 4	1	21 58	0			15 18 PP
CHORZOW	78.60	353.7	12 5K	0					12 26 PCP
LWOW	78.63	350.4	12 5	0					15 0 PP
KRAKOW	78.77	353.1	12 6K	0	22 0	-3			22 10 SKS
RACIBORZ	78.87	354.2	12 7	1	22 5	1			15 1 PP
DEHRA DUN	78.92	304.8	12 2	-5	22 4	-1			14 55 PP
PRAGUE	79.06	356.7	12 7	0	22 7	1			
CHEB	79.11	358.0	12 6	-2	22 5	-2			27 41 SS
PRUHONICE	79.15	356.6	12 9K	1	22 8	1			23 5 PS
WARSAK DAM	79.15	311.6	12 7	-1					
JERSEY	79.57	7.6			22 19	7			12 50
SKALNATE PL.	79.61	352.8	12 9	-1	22 15	3			
LAHORE	79.81	308.2	12 11K	0	22 11	-3			
BOKARO	79.82	295.3	12 10K	-1	22 12	-2			15 15 PP
HEIDELBERG	79.83	0.4	12 13	1					
KASPERSKE H.	80.03	357.2	12 13	0	22 19	2			13 10
FOLINIERE	80.10	6.6	12 13	0					17 43
KARLSRUHE	80.21	0.6	12 15	1	22 23	5			
PARIS	80.24	4.6	12 15	1	22 19	0			23 5 SP
CHARTERS TS.	80.39	220.6	12 13	-2	22 19	-1			
STUTT GART	80.46	0.1	12 16K	1	22 23	2			27 47 SS
STRASBOURG	80.64	1.1	12 16	0	22 23	0			15 29 PP

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1961

PAGE 745

TUBINGEN	80.70	0.2	12 17K	1				
NEW DELHI	80.75	304.4	12 17K	1	22 17	-7	15 22	PP
IASI	80.78	347.5	12 15	-2	22 23	-1		
VIENNA-H.	80.80	355.3	12 17K	0	22 25	0	15 24	PP
BRATISLAVA	80.84	354.8	12 18	1	22 27	2	15 23	PP
EBINGEN	81.05	0.3	12 20K	2				
HURBANOVO	81.07	354.0	12 15	-3	22 33	6	15 13	PP
BUDAPEST	81.40	353.4	12 24	4	22 36	5	16 1	PP
ASHKABAD	81.44	322.9	12 21	1			22 34	
RAVENSBURG	81.45	359.8	12 21	1				
BASLE	81.69	1.2	12 23K	2			22 35	
GARCHY	81.80	4.3	12 25	3			12 34	PCP
SIMFEROPOL	81.91	342.5	12 23K	1			15 19	PP
BESANCON	81.94	2.3	12 23	0			12 51	
NEUCHATEL	82.21	1.7	12 25	1				
CHUR	82.38	359.9	12 26	1			22 47	
TIFLIS	82.48	334.0	12 27K	2			15 44	PP
TIMISOARA	82.94	351.7	12 30A	2	22 50	3	12 35	PP
LJUBLJANA	83.08	356.4	12 28	-1	22 50	2	15 54	PP
CLERMONT-FD.	83.31	4.4	12 31K	1	22 59	9		
TRIESTE	83.50	356.9	12 31	0	22 53	1	32 7	SSS
BUCHAREST	83.71	348.0	12 31K	-1	22 54	0	23 38	PS
PADOVA	83.79	358.2	12 35	3	22 58	3	24 27	PPS
BELGRADE	83.93	352.1	12 33K	0	22 58	2	24 6	PPS
GORIS	84.10	332.1	12 34K	0			15 52	PP
QUETTA	84.48	312.7	12 36K	0	22 59	-3	15 50	PP
BRISBANE	84.59	212.2	12 35	-1	23 0	-3		
SAN JUAN	84.63	67.4	12 35	-1			12 50	
CHIAVARI	84.91	0.0	12 36	-2			15 54	PP
SEHORE	85.18	301.3	12 40	1			16 21	PP
PRATO	85.34	358.7	12 46	6	23 13	3		
FLORENCE X.	85.43	358.6	12 41	1	23 17	6		
MONACO	85.48	1.4	12 42	1				
SOFIA	85.74	349.7	12 43	1			16 8	PP
BAGNERES	85.82	6.8	12 42	0				
TEHERAN	85.92	326.9	12 43K	0	23 15	-1		
VISHAKHAPTNM	86.05	293.3	12 46K	2	23 27	10	24 36	PS
TITOGRAD	86.40	352.7	12 46	1	23 21	0	24 17	PS
ISTANBUL KA.	86.56	345.2	12 46	0	23 21	-1	16 13	PP
ISTANBUL UN.	86.60	345.3	12 47	1				
SERRA PILAR	86.77	13.5	12 46A	-1			12 55	
ROME	87.29	357.7	12 49K	-1	23 27	-2	13 9	
COIMBRA	87.70	13.5	12 52A	0	24 31	58	16 19	PP
TORTOSA	88.08	6.7	12 56	3	23 38	1		
ANTI GUA	88.08	64.9	12 54	1				
TOLEDO	88.59	10.3	12 55K	-1	23 25	-16	16 9	PP
LISBON	89.04	14.4	13 2K	4	23 48	3		
HYDERABAD	89.05	296.9			23 39	-7	24 56	PPS
CHINCHINA	89.31	83.0	12 58	-1	23 51	3		
KARAPIRO	89.53	190.9	12 57	-3				
FUQUENE	90.10	81.2	13 3K	0	23 54	-1	16 48	PP
LEMBANG	90.11	259.3	13 3K	0				
TUAI	90.21	189.5	13 4	1				
CARACAS	90.35	72.8	13 4A	0	23 39	-18		
ATHENS	90.36	348.7	12 19K	-45			13 6	
ALICANTE	90.46	7.7	13 4	-1	23 57	-1	16 41	PP
BOGOTA	90.55	82.0	13 7	2	24 3	4	16 50	PP
POONA	90.69	301.1	13 6K	0	24 1	1	23 50	SKKS
TONGARIRO	90.79	190.7	13 4	-2				
BOMBAY	90.94	302.1	13 8	1	24 4	1	16 47	PP
RIVERVIEW	91.06	211.0	13 6K	-1	23 40	-24	25 10	PS
GRANADA	91.31	10.3	13 12K	4	24 12	6	17 18	PP
ST. VINCENT	91.58	66.8	13 12	2				
MADRAS	91.61	292.9					22 15	
ALMERIA	91.76	9.5	13 1	-10	23 46	-24	16 50	PP
KSARA	92.23	338.2	13 11	-2	23 57	-17	16 53	PP
COBB RIVER	93.00	192.5	13 17	1				
CANBERRA	93.13	212.0	13 17	0	24 24	2	23 49	SKS
TRINIDAD	93.52	68.4	13 18	-1				
KODAIKANAL	95.40	293.5					25 38	
ADELAIDE	96.61	219.7	13 4	-29			13 34	
HELWAN	97.03	340.9	13 35K	0			26 8	
ROXBURGH	97.80	194.1			24 13	-3	26 24	SP
LA PAZ	110.49	91.0	19 0	26				
MBOUR	110.81	27.4			25 25	10	19 16	PP
CAPE HALLETT	123.89	186.9	18 59A	-1			30 37	PS
BANGUI	124.12	348.8	19 0	0			19 12	
LWIRO	128.59	334.8	19 11	2			31 15	SKKS

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1961						PAGE 746
SCOTT BASE	129.49	186.1	19 10	-1		21 23 PP
BROKEN HILL	140.28	330.3	19 27	-4		
SOUTH POLE	140.96	180.0	19 23	-9	19 50	
ARGENTINE I.	141.19	139.9	19 27	-5		
BULAWAYO	145.54	326.8	19 40K	0		
MAWSON	149.43	217.3	19 45A	-1		23 29 PP
PRETORIA	150.84	323.4				20 23 PKP2
WINDHOEK	150.84	345.2	19 49	1		
PIETERMZBURG	153.36	315.8	19 54	2		
KIMBERLEY	154.80	326.8	19 55A	1		
GRAHAMSTOWN	158.19	318.2	19 24	-34		
HERMANUS	161.81	333.0				24 37 PP

AUGUST 9 4.H 2.M 38.S EPICENTRE 41.40 142.57 DEPTH= 111.KM

A=-0.59742 B= 0.45731 C= 0.65876 D= 0.6078 E= 0.7941
G=-0.5231 H= 0.4004 K=-0.7524 HT= -2.2

DEPTH OF FOCUS= 0.012R

SE= 4.77

	DELTA DEG.	AZ. DEG.	P M	O-C S S	S M	O-C S S	*PP M S	SUPP. M S
URAKAWA	0.77	11.9	0	14A -6	0	33 -2		
HIROO	1.05	32.3	0	15 -7	0	35 -4		
HATINOHE	1.17	222.5	0	9 -14	0	23 -18		
HAKODATE	1.42	287.5	0	22A -4	0	50 4		
TOMAKOMAI	1.43	329.5	0	28 1	0	57 10		
AOMORI	1.47	247.5	0	17 -10	0	40 -8		
MURORAN	1.50	308.4	0	25 -2	0	50 2		
MORI	1.65	295.8	0	28 -1	0	56 5		
MIYAKO	1.80	194.8	0	12 -19	0	28 -26		
SAPPORO	1.90	332.0	0	31 -1	0	59 3		
MORIOKA	2.00	212.6	0	19A -14	0	39 -20		
KUSIRO	2.09	40.1	0	26 -9	0	54 -7		
MI ZUSAWA	2.52	206.4	0	25 -15	0	51 -20		
AKITA	2.52	229.1	0	32 -8	1	0 -11		
YAMAGATA	3.58	209.2	0	38 -17	1	20 -16		
HUKUSIMA	3.99	204.7	0	44 -16	1	30 -16		
NIIGATA	4.41	219.1	1	17 11	2	1 4		
ONAHAMA	4.63	196.8	1	15 6	1	37 -25		
SHIRAKAWA	4.64	203.8	0	53 -16	1	35 -27		
MITO	5.27	198.8	1	1A -17	2	25 7		
TUKUBASAN	5.52	201.2	1	2K -19	1	56 -28		
Y. -SAKHLINSK	5.62	1.1	1	19 -3				
NAGANO	5.82	217.2	1	18 -7	2	23 -8		
MATUSIRO	5.92	216.4	1	13A -13	2	31 -2		
OI WAKE	5.95	213.1	1	24 -3	2	28 -6		
TITIBU	6.06	207.9	1	14 -14				
TOKYO C.M.O.	6.12	202.0	1	19 -10	2	34 -4		
MATUMOTO	6.27	216.4	1	18 -13				
TOYAMA	6.28	223.4						2 15
KOHU	6.52	210.1	1	27 -8	2	31 -17		
HUNATU	6.60	208.0	1	30 -6	2	32 -18		
MERA	6.82	199.3			2	38 -18		
MI SIMA	6.88	205.6	1	33 -7				
AJIRO	6.90	204.4	1	22 -18	2	35 -22		
IIDA	6.94	213.9	1	29 -11	2	58 0		
OSIMA	7.08	201.8	1	26 -16				
GIHU	7.52	219.1	1	47 -1				
OMAESAKI	7.60	208.2	1	56 7				
NAGOYA	7.61	217.1	1	49 -1	3	27 12		
TSURUGA	7.67	223.7	1	44 -6				
HIKONE	7.88	221.1	1	41 -12	3	23 2		
VLADIVOSTOK	8.10	285.8	1	56 0				
KAMEYAMA	8.11	218.3	1	48 -8	3	21 -6		
KYOTO	8.33	222.4	1	56 -3	3	32 0		
OSAKA	8.73	221.7			3	47 5		
CHANGCHUN	12.94	286.6	2	59 -2				
PETROPVLOVK	15.91	37.6						4 2
MAGADAN	18.89	13.0	4	12 -2				
PEKING	20.03	274.8	4	22 -4	8	5 5		
NANKING	21.17	251.5	4	31 -6				
YAKUTSK	22.05	343.8	4	46 0				
ULAN-BATOR	26.03	296.6	5	25 1				

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1961

PAGE 747

SIAM	27.40	265.9	5	36	-1	
LANCHOW	30.51	272.8	6	2	-2	
KUNMING	36.69	256.3	6	56	-1	
LHASA	42.98	271.1	7	46	-3	
SHILLONG	44.50	265.6	8	0	-2	
COLLEGE	44.96	34.5	8	5	0	8 16
KHEYS	48.58	347.4	8	35	1	
NEW DELHI	53.89	278.3	9	12A	-2	
QUETTA	60.57	285.6	10	1	0	
SODANKYLA	61.31	336.6	10	6	0	
TROMSOE	61.89	340.7	10	10	0	
KIRUNA	62.77	338.8	10	16	1	
KAJAANI	63.08	333.4	10	18	0	
NURMIJARVI	66.53	331.5	10	40	0	
SKALSTUGAN	68.19	338.4	10	43	-7	
UPPSALA	69.43	333.8	10	58	0	
EUREKA	72.46	52.7	11	14	-2	
NIEDZIKA	76.31	325.4	11	40	2	12 5
RAPID CITY	76.46	42.5	11	39	0	
PRUHONICE	78.23	328.7	11	50	1	
KASPERSCHE H.	79.29	328.7	11	56	2	
STUTTGART	81.22	330.8	12	6	1	
LJUBLJANA	81.38	326.3	12	7	1	
PARIS	83.52	334.7	12	19	3	
WICHTA MTS.	85.72	46.4	12	26	-1	
SOUTH POLE	131.21	180.0				19 23

AUGUST 9 16.H 2.M 37.5 EPICENTRE -19.15 168.62 DEPTH= 51.KM

A=-0.92677 B= 0.18652 C=-0.32606 D= 0.1973 E= 0.9803
G= 0.3196 H=-0.0643 K=-0.9453 HT= 4.9

DEPTH OF FOCUS= 0.003R

SE= 1.67

	DELTA DEG.	AZ. DEG.	P			S			O-C			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S			
PORT VILA	1.44	348.5	0	25K	0										
NOUMEA	3.74	212.6	0	55K	-2	1	40	0							
KOUMAC	4.32	250.3	1	3K	-2										
SUVA	9.35	85.5	2	17	2	4	8	8							
HONIARA	12.80	317.8	3	2	0										
RAOUL ISLAND	15.86	131.9	3	46	5										
BRISBANE	16.69	237.7	3	50	-2	7	2	7							
AUCKLAND	18.47	164.2	4	16	2	7	48	13							
AFIAMALU	19.49	77.5	4	23A	-3	8	13	16							
CHATEAU	20.86	164.8	4	39	-1										
TUAI	20.93	161.1	4	40	-1	8	36	10							
CHARTERS TS.	21.08	263.7	4	44	2	8	38	9							
RIVERVIEW	21.36	223.3	4	48A	3	8	40	6	4	58	5	15	PP		
RABAUL	21.88	310.7	4	49	-1										
COBB RIVER	22.14	171.7	4	54	1	8	58	10							
WELLINGTON	22.68	167.9	4	55	-3									9	59
PORT MORESBY	22.93	292.0	5	3	2	9	13	10							
KAIMATA	23.42	174.8	5	6	1										
CANBERRA	23.67	223.1	5	10A	2	9	24	8	5	21	5	27	*SP		
GEBBIES PASS	24.71	173.0	5	14	-4										
ROXBURGH	26.26	178.9				10	1	2						5	29
MELBOURNE	27.77	223.0	5	46	0										
MOORLANDS	29.47	213.4	6	1K	0									6	57 PP
FORT NELSON	29.74	212.5	6	5A	1										
TARRALEAH	29.75	214.3	6	7K	3									9	7 PCP
ADELAIDE	30.79	233.1	6	13K	0									7	11 PP
GUAM	40.04	322.3	7	30	-2										
MUNDARING	48.55	244.0	8	39A	-1										
PERTH	48.88	244.0				15	52	11						9	11
HONOLULU	51.74	40.7	9	4	0	16	39	18							
XIPAPA	51.88	40.6	9	4	-1										
CAPE HALLETT	53.18	179.4	9	14K	-1	16	44	3	9	34					
MANILA	57.62	302.3	9	46	-1	17	39	-1							
SCOTT BASE	58.75	180.5	9	54K	-1	17	54	-1	10	6	12	17	PP		
BAGUIO CITY	59.00	303.6	9	56	-1	18	4	6							
TUKUBASAN	61.32	333.9	10	12A	-1										
DJAKARTA	61.37	273.4	10	15	2	18	29	1							
ABUYAMA	62.23	329.5	10	6A	-13										
MATUSIRO	62.40	332.6	10	19A	-1	18	34	-7							

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1961		PAGE 748									
NHATRANG	66.31	293.2	10 41	-4							13 34 PP
HONG KONG	67.29	305.2	10 53A	1	19 49	8	11	4			
ZO-SE	67.61	316.9	10 53A	-1	19 48	3					
CANTON	68.37	305.5	11 0A	2	20 0	6					
NANKING	69.79	316.3	11 7A	0	20 16	5					
Y.-SAKHLINSK	69.88	341.4	11 8	0	20 14	2					
VLADIVOSTOK	70.56	332.3	11 13	1	20 23	3					
SOUTH POLE	70.97	180.0	11 13	-1							
MEDAN	72.34	280.3	11 21A	-1						12 2	
PETROPAVLOVK	72.38	353.7	11 22A	-1	20 45	4					
CHANGCHUN	74.17	328.9	11 33A	0	21 4	3					
PEKING	76.50	321.2	11 47A	1	21 32	5					
KUNMING	77.73	302.1	11 55A	2	21 46	6					
SIAN	77.74	313.0	11 55A	2	21 46	6					
MAWSON	78.30	202.1	11 56A	0	21 50	4				12 52	
CHENG TU	79.41	307.6	12 3	1	22 2	4					
MAGADAN	79.76	350.9	12 3	-1	22 1	-1					
PAOTOW	80.56	318.8	12 10A	1	22 16	6					
LANCHOW	82.23	312.3	12 19A	2	22 33	6					
TOCKLAI	84.89	300.4	12 33A	2							
PARAISO	85.35	49.2	12 37	4							
STA. CRUZ C.	85.92	48.7	12 36	0							
BRANNER	85.99	48.3	12 36	0							
BERKELEY	86.14	47.8	12 37A	0	23 21	15					
LICK	86.33	48.5	13 37A	59						14 11	
ULAN-BATOR	86.56	323.6	12 40	1							
YAKUTSK	86.59	342.7	12 38	-1	22 50	-20					
SHILLONG	86.81	298.3	12 40	0	23 16	4				22 45 SKS	
ARGENTINE I.	86.81	160.4	12 38	-2							
SHASTA	87.37	45.3	12 43A	0							
FRESNO	87.39	49.7	12 42A	-1							
PASADENA	87.46	52.6	12 43A	0							
MINERAL	87.74	45.9	12 45K	0							
RENO	88.60	47.2	13 10	21							
CORVALLIS	88.62	41.5	12 49	0							
LHASA	89.05	301.8	12 52A	1	23 36	3				23 18 SKS	
COLLEGE	90.13	17.1	12 53	-3	22 55	-48				16 26 PP	
IRKUTSK	90.30	326.4	12 56A	-1							
VICTORIA	90.44	38.0	12 57A	0							
BOULDER CITY	90.71	52.1	12 59	0							
EUREKA	91.27	48.5	13 1	0						16 29 PP	
TUCSON	92.39	56.8	13 7	1					13 22		
PENTICTON	93.03	38.5	13 8A	-1							
GLEN CANYON	93.50	52.2	13 12	1							
SALT LAKE C.	94.68	48.5	13 16	-1							
HUNGRY HORSE	96.02	40.9	13 22	-1						30 11 PKKP	
FLAMING GRGE	96.49	49.0	13 24	-1						30 9 PKKP	
NEW DELHI	100.12	296.7	13 38	-4						24 14	
WICHITA MTS.	102.87	57.6	13 53	-1						18 0 PP	
SEMI PALATNSK	103.49	318.9	13 55	-2							
QUETTA	109.19	296.1	14 21	777						18 45 PP	
STAL INABAD	109.22	305.1								18 21 PP	
TASHKENT	109.27	308.1	18 48	777							
KHEYS	112.09	350.5	14 17	-253							
SVERDLOVSK	115.65	324.6	18 37	0							
OTTAWA	121.32	48.0	18 46A	-2							
TEHERAN	122.79	300.6	18 52	1							
PALISADES	122.90	53.1								20 27 PP	
SHAWINIGAN	123.26	46.4	18 50A	-1							
APATI TY	123.96	341.0	18 51	-2							
BULAWAYO	124.68	227.2	19 56	62							
CARACAS	125.80	90.7	18 57	1						22 11 SKP	
SODANKYLA	126.08	342.9	18 46	-11						20 46 PP	
TROMSOE	126.24	347.3	18 56	-1							
KIRUNA	127.34	345.4	18 58A	-1							
TIFLIS	127.60	308.3	19 1	1							
KAJAANI	127.98	339.4	19 1	0							
MOSCOW	128.29	327.0	19 9	8							
SAN JUAN	128.35	81.4	19 0	-1							
BROKEN HILL	128.48	232.5	19 3A	1							
PULKOVO	129.67	334.1	19 3	-1							
HALIFAX	129.93	47.4	19 3A	-1							
SOTCHI	130.95	311.5								21 24	
TRINIDAD	131.07	92.5	19 5	-1						22 28	
NURMIJARVI	131.42	337.2	18 54	-13						21 23 PP	
SKAL STUGAN	132.76	345.8	18 58	-12						21 47 PP	
UPPSALA	134.33	340.0	19 8	-5						21 41 PP	
SIMFEROPOL	134.43	314.8	19 13	0							

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1961

PAGE 749

LWIRO	135.15	246.1	19 18	4					
KSARA	135.62	299.0	19 18	3				21 59	PP
KISHINEV	137.03	319.6	19 17	0					
LWOW	138.37	325.6	19 21A	1				22 56	
I STANBUL KA.	139.23	311.3	19 21	-1				22 11	PP
HELWAN	139.90	293.8	19 23	0				22 59	PKS
SKALNATE PL.	140.74	327.1	19 26	2				22 28	PP
RACIBORZ	141.17	329.5	19 20	-5				22 23	
SOFIA	142.49	316.4	19 25	-2				22 36	PP
COLLMBERG	142.60	334.7	19 23K	-5				22 28	PP
HURBANOVO	142.62	326.8	19 27	-1					
HALLE	142.86	335.8	19 25	-3				22 30	PP
PRUHONICE	142.93	332.1	19 25	-3				22 42	PP
BRATISLAVA	142.98	328.0	19 24K	-4				22 33	PP
VIENNA-H.	143.29	328.6	19 27A	-2				22 41	PP
JENA	143.45	335.5	19 26	-3				22 43	PP
WITTEVEEN	143.58	341.5	19 29	0					
DURHAM	143.66	350.4	19 26	-3					
CHEB	143.78	333.9	19 26	-4					
KASPERSKE H.	143.98	331.9	19 28A	-2				22 45	PP
MUNSTER	144.01	340.0	19 29	-1					
ATHENS	144.20	309.0	19 26A	-4					
BENSBERG	145.02	339.5	19 32A	0			19 43	22 10	PP
LJUBLJANA	145.71	327.3	19 33	0			19 47	23 12	PP
HEIDELBERG	145.78	336.5	19 33	0					
STUTT GART	146.07	335.3	19 33	-1				22 58	PP
KARLSRUHE	146.21	336.4	19 35	1				22 49	
TUBINGEN	146.35	335.2	19 33	-1					
TRIESTE	146.38	327.5	19 34	0			19 48	22 59	PP
KEW	146.59	347.4	19 37	3					
EBINGEN	146.67	334.9	19 34	-1					
RAVENSBU RG	146.72	333.9	19 34	-1					
STRASBOURG	146.81	336.6	19 35	0				24 0	
BANGUI	147.25	247.2	19 36	0			20 9		
CHUR	147.49	332.9	19 39A	3					
PADOVA	147.49	328.8	19 43	7				22 28	
BASLE	147.74	335.6	19 40	4				23 45	
PARIS	148.36	342.4	19 43	6				23 15	PP
NEUCHATEL	148.42	335.7	19 42	5					
BESANCON	148.58	337.0	19 38	0					
FLORENCE X.	148.96	327.3	19 36A	-2				19 44	PKP2
PRATO	148.97	327.6	19 42	4					
FOLINIERE	149.17	345.9	19 38	-1				21 28	
GARCH	149.55	340.4	19 43	4				21 38	
ROME	149.58	323.4	19 39A	0	26 47	7	19 48	23 17	PP
REGGIO CALA.	149.85	314.5	19 44	4					
MESSINA	149.87	314.7	19 45K	5				23 30	
MONACO	150.85	331.3	19 41	0					
BAGNERES	154.24	340.3	19 49	3					
SERRA PILAR	157.96	354.4	19 52	1				24 9	PP
TOLEDO	158.40	344.5	19 55	4				24 6	PP

AUGUST 10 12.H 3.M 26.S EPICENTRE 37.33 137.15 DEPTH= 60.KM

A=-0.58436 B= 0.54214 C= 0.60383 D= 0.6801 E= 0.7331
G=-0.4427 H= 0.4107 K=-0.7971 HT= -0.7

DEPTH OF FOCUS= 0.004R

SE= 3.87

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S		
WAZIMA	0.20	284.1	0	1K	-10	0	18	-1				
TOYAMA	0.63	176.1	0	6K	-9	0	13	-13				
KANAZAWA	0.89	206.6	0	11A	-7	0	23	-8				
TAKADA	0.91	104.3	0	11K	-7	0	23	-8				
NAGANO	1.07	127.7	0	14K	-6	0	28	-7				
AIKAWA	1.11	51.5	0	15K	-5	0	31	-5				
MATU S IRO	1.16	132.5	0	14K	-7	0	29	-8				
MATUMOTO	1.27	148.2	0	16	-6	0	32	-7				
HUKUI	1.48	210.2	0	17	-8	0	36	-8				
OI WAKE	1.51	131.1	0	20	-6	0	37	-8				
NI IGATA	1.62	68.2	0	23	-4	0	45	-3				
MAEBASI	1.80	120.5	0	24K	-6	0	47	-5				
TSURUGA	1.89	207.7	0	25K	-6	0	48	-6				
IIDA	1.89	162.8	0	27	-4	0	51	-3				

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1961		PAGE 750					
GIHU	1.95	189.1	0 25	-7	0 51	-4	
KOHU	2.01	145.1	0 29	-4	0 58	1	
TITIBU	2.06	130.3	0 31	-2	0 56	-2	
KUMAGAYA	2.15	122.6	0 34	0	1 3	3	
NAGOYA	2.16	183.8	0 32	-3	0 58	-3	
HIKONE	2.18	199.7	0 30	-5	0 58	-3	
HUNATU	2.25	143.9	0 33	-3	1 4	1	
UTUNOMIYA	2.32	108.8	0 35	-2	1 0	-5	
SHIRAKAWA	2.46	94.0	0 36	-3	1 11	3	
KAMEYAMA	2.54	192.7	0 41	1	1 14	4	
SHIZUOKA	2.56	156.3	0 40	0			
KYOTO	2.57	206.8	0 36	-5	1 5	-6	
TOYOOKA	2.60	226.9	0 35	-6	1 13	1	
TUKUBASAN	2.62	114.2	0 35	-6			1 2
SAKATA	2.63	52.7	0 39	-2	1 26	14	
MISIMA	2.64	146.0	0 41	-1			
HONGO	2.66	126.6	0 45	3			1 10
TOKYO C.M.O.	2.67	127.4	0 43	1	1 13	0	
KAKIOKA	2.67	113.4	0 39	-3			
TU	2.67	191.1	0 41	-1	1 15	2	
HUKUSIMA	2.67	80.0	0 39	-3			
YAMAGATA	2.70	69.1	0 38A	-4	1 27	13	
ABUYAMA	2.77	207.9	0 38A	-5	1 18	2	
AJIRO	2.77	144.6	0 41	-2	1 23	7	
YOKOHAMA	2.77	132.4	0 45	2	1 31	15	
MI TO	2.83	108.6	0 42	-2	1 23	6	
NARA	2.85	202.4	0 47	3	1 6	-12	
OMASAKI	2.86	162.0	0 50	5	1 19	1	
OSAKA	2.98	206.6	0 47A	1	1 26	5	
TOTTORI	3.00	233.7	0 39	-8	1 16	-6	
ONAHAMA	3.02	96.1	0 51	4	1 27	5	
KOBE	3.09	211.7	0 50	2	1 28	4	
SENDAI	3.12	71.4	0 48	0	1 25	0	
OSIMA	3.13	144.0	0 52	4			
MERA	3.24	137.1	0 54	4			
SAIGO	3.27	250.9	0 59	9	1 41	13	
AKITA	3.33	43.3	0 58	7	1 45	15	
OWASE	3.34	193.6	1 50	59	2 35	65	
TYOSI	3.39	117.2	0 54	2	1 37	6	
ISINOMAKI	3.48	70.4	0 50	-3	1 48	14	
SUMOTO	3.49	212.0	0 53	0	1 40	6	
HIMEJI	3.60	219.1	0 53	-2	1 34	-3	
YONAGO	3.60	239.4	1 4	9	1 51	14	
MIZUSAWA	3.61	59.0	0 54	-1			
MATSUE	3.79	241.5	0 55	-3			
TOKUSIMA	3.87	213.5	1 6	7	1 58	15	
TAKAMATU	3.92	220.9	0 53	-6	1 47	2	
MORIOKA	3.94	51.9	0 57	-3			
SIOMISAKI	4.03	196.6	1 9	8	1 57	9	
TSURUGISAN	4.31	217.3	1 34	29			1 54
MIYAKO	4.44	57.1	1 3	-4			
AOMORI	4.49	37.9	1 12	5	2 10	11	
KOTI	4.79	219.1	1 9	-3	1 58	-8	
HIROSIMA	4.84	233.8	1 10	-2	2 11	3	
MATUYAMA	4.98	226.9	1 11	-3	2 14	3	
MORI	5.45	27.9	1 20	-1			
ODITA	6.10	229.5	1 24A	-6	3 4	25	
URAKAWA	6.48	40.3	1 32	-3			
SAPPORO	6.57	28.0	1 38	2			
HUKUOKA	6.67	237.9	1 56	18	3 25	32	
KUMAMOTO	6.94	231.5	1 39	-2	3 34	34	
VLADIVOSTOK	7.04	326.9	1 47	4			
RUMOE	7.43	25.8	1 50	2	2 43	-29	
YAKUSIMA	8.81	220.8	2 3	-4			
Y.-SAKHLINSK	10.52	21.3	2 28	-3			
CHANGCHUN	11.09	309.5	2 38	0			
ZO-SE	14.59	249.5	3 23	-2	6 20	15	3 23
NANKING	15.99	256.2	3 47	5			
PEKING	16.60	285.8	3 54	4	7 5	13	
PETROPAVLOVK	21.69	36.8	4 48	1			
SIAN	23.07	270.9	5 6	5			
MAGADAN	23.91	17.3	5 8	-1			
ULAN-BATOR	24.49	305.2	5 14	-1			
HONG KONG	24.84	239.4	5 17	-1	9 51	17	
YAKUTSK	25.14	351.8	5 20	-1			
LANCHOW	26.67	277.4	5 33K	-2	10 20	16	
SHILLONG	40.02	266.3	7 26	-5			
NEW DELHI	50.32	278.5	8 52K	-1			

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1961

PAGE 751

COLLEGE	50.66	32.2	8 54	-1	
KHEYS	51.66	348.1	9 1	-2	
WARSAK DAM	52.43	287.4	9 2	-7	
STALINABAD	52.76	293.7	8 51	-20	
QUETTA	57.60	285.2	9 47	1	
CHARTERS TS.	57.75	169.9	9 44	-3	12 34
APATITY	60.99	334.7	10 12	2	
SODANKYLA	63.34	336.1	10 24	-1	
MOSCOW	64.95	322.0	10 34	-2	
NURMIJARVI	68.04	330.5	10 53	-2	
VICTORIA	68.64	44.8	10 57	-2	
PENTICTON	70.29	42.6	11 8	-1	
SKALSTUGAN	70.36	337.1	11 7	-2	
CORVALLIS	70.86	48.2	11 13	1	
UPPSALA	71.16	332.3	11 15	1	
CANBERRA	73.12	169.9	11 24	-2	
HUNGRY HORSE	73.84	41.1	11 29	-1	
MINERAL	74.30	51.1	11 32A	-1	
RENO	75.89	51.0	11 2	-40	
BUTTE	76.08	42.3	11 43	0	
BOZEMAN	77.12	41.9	11 50	1	
EUREKA	78.28	49.1	11 55	0	
COLLMBERG	79.10	328.1	11 57A	-3	14 43 PP
HALLE	79.39	328.7	11 59	-2	
PRUHONICE	79.40	326.4	12 0	-1	14 40
CHINA LAKE	79.55	52.9	12 2	0	13 17
SALT LAKE C.	79.88	46.1	12 4	0	
FLAMING GRGE	81.17	44.7	12 10	-1	
BOULDER CITY	81.19	51.3	12 11	0	
BENSBERG	81.73	330.7	12 13	-1	
RAPID CITY	82.28	39.2	12 17	1	
GLEN CANYON	82.53	48.8	12 18	0	
STUTTART	82.58	328.2	12 17	-1	
TARANTO	84.99	318.4	11 50	-40	12 17
TUCSON	86.14	51.9	12 37	1	
WICHITA MTS.	91.57	42.9	13 1	-1	
FAYETTEVILLE	92.82	39.3	13 7K	0	
MORGANTOWN	96.17	27.9			14 44
PALISADES	97.01	23.2			33 18 PKKS
SOUTH POLE	127.14	180.0	18 57	-1	

AUGUST 10 12.H 5.M 31.S EPICENTRE 43.54 145.00 DEPTH= 70.KM

A=-0.59575 B= 0.41713 C= 0.68636 D= 0.5736 E= 0.8192
G=-0.5622 H= 0.3937 K=-0.7273 HT= -3.0

DEPTH OF FOCUS= 0.006R

SE= 4.62

	DELTA DEG.	AZ. DEG.	P		O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	
NEMURO	0.47	115.8	0	9A	-5	0	17	-8			
KUSIRO	0.71	218.6	0	6A	-10	0	14	-15			
ABASHIRI	0.71	313.1	0	19	3	0	26	-3			
OB IHIRO	1.45	245.6	0	18K	-7	0	34	-10			
HIROO	1.76	225.1	0	19A	-10	0	35	-16			
ASAHI GAYA	1.93	278.2	0	32	1	1	3	8			
URAKAWA	2.14	230.5	0	26	-8	0	49	-11			
TOMAKOMAI	2.66	251.3	0	38	-4	1	6	-7			
SAPPORO	2.71	261.4	0	37K	-5	1	7	-7			
MURORAN	3.19	249.0	0	44	-5	1	17	-9			
MORI	3.56	247.8	0	47K	-7	1	25	-10			
SUTTSU	3.57	259.7	0	49	-5	1	31	-5			
HAKODATE	3.57	242.6	0	46	-8	1	25	-11			
HATINOHE	3.96	221.9	0	47	-13	1	23	-22			
AOMORI	4.15	230.6	0	59	-3	1	33	-17			
MORIOKA	4.79	218.1	0	59	-12	1	43	-23			
AKITA	5.29	225.6	1	30	12	2	16	-2			
MI ZUSAWA	5.30	224.2							1	54	
SENDAI	6.11	211.9	1	16	-13				2	24	
YAMAGATA	6.35	215.3	1	18	-15	2	19	-26			
HUKUSIMA	6.73	212.3	1	29	-9						
NI IGATA	7.20	220.9							2	2	
ONAHAMA	7.29	206.9				20	40	-29			
SHIRAKAWA	7.37	211.3	1	33	-14	2	50	-20			
AIKAWA	7.52	225.2	1	36	-13						

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1961

PAGE 752

MITO	7.95	207.5	2 17	22	2 58	-26	
UTUNOMIYA	8.01	211.1					2 43
KAKIOKA	8.18	208.5	1 49	-9	3 1	-29	
TUKUBASAN	8.22	208.9	1 41K	-18	3 1	-30	2 33
TYOSI	8.44	203.7	1 44	-17	3 4	-32	
MAEBASI	8.45	214.5			3 38	1	3 15
MATUSIRO	8.71	219.0	1 51	-14			
TOKYO C.M.O.	8.83	209.0					3 17
YOKOHAMA	9.09	208.8					3 25
MISIMA	9.62	211.1	2 8	-10			
AJIRO	9.63	210.3	2 2	-16	3 36	-29	
OSIMA	9.78	208.3					3 38
COLLEGE	42.18	35.9	7 49	2			
SEMIPALATNSK	43.46	302.7	7 55	-2			
SHILLONG	46.47	265.3	8 21A	0			
CHATRA	49.15	270.0	8 43	1			
SVERDLOVSK	52.23	316.2	9 5	0			
ANDI JAN	52.32	293.6	9 5	-1			
SITKA	49.76	44.8	8 49	2			
NEW DELHI	55.36	278.4	9 23	-6			
RESOLUTE	55.62	16.2	9 30	-1			
SODANKYLA	60.06	336.9	10 2	0			
QUETTA	61.73	285.9	10 10	-3	18 27	-2	
KAJAANI	61.97	333.7	10 15	0			
BANFF	62.74	44.3	10 20	0			
SHASTA	65.12	56.8	10 35	0			
HUNGRY HORSE	65.23	46.2	10 36	0			
NURMI JARVI	65.50	332.0	10 37	-1			
MINERAL	65.81	56.8	10 39A	-1			
RENO	67.40	56.5	10 10	-40			
BUTTE	67.47	47.5	10 50	0			
UPPSALA	68.31	334.4	10 54	-1			11 26
TIFLIS	68.98	307.9	10 59	-1			
EUREKA	69.74	54.6	11 4	0			11 35
SALT LAKE C.	71.29	51.3	11 14	1			
PASADENA	71.83	60.1	11 15	-2			
FLAMING GRGE	72.56	49.9	11 21	0			
BOULDER CITY	72.70	56.7	11 20	-2			
RAPID CITY	73.67	44.2	11 28	0			
GLEN CANYON	73.98	54.1	11 29	0			
LARAMIE	74.38	47.5	11 31	-1			
COLLMBERG	76.78	331.4	11 46	1			
TUCSON	77.66	57.2	11 51	1			
STUTT GART	80.20	332.0	12 4	0			
WICHITA MTS.	82.95	48.0	12 18	0			
FAYETTEVILLE	84.21	44.4	12 24K	-1			
SHAWINIGAN	84.27	25.1	12 25	0			

AUGUST 11 6.H 8.M 31.S EPICENTRE 32.32 130.91 DEPTH= 113.KM

A=-0.55452 B= 0.63983 C= 0.53209 D= 0.7557 E= 0.6549
G=-0.3485 H= 0.4021 K=-0.8467 HT= 1.0

DEPTH OF FOCUS= 0.013R

SE= 5.53

	DELTA DEG.	AZ. DEG.	P		O-C		*PP			SUPP.	
			M	S	M	S	M	S	M	S	
KUMAMOTO	0.53	340.0	0 12A	-7	0 32	-1					
MIYAZAKI	0.59	132.9			0 5	-29					
ASOSAN	0.59	12.7	0 8	-11	0 27	-7					
UNZENDAKE	0.69	306.1	0 15	-5	0 39	4					
KAGOSIMA	0.81	202.6	0 5A	-15	0 25	-11					
NAGASAKI	0.96	295.3	0 19A	-2	0 50	12					
SAGA	1.06	330.9	0 21	-1	0 48	8					
OOITA	1.08	33.1	0 10A	-13	0 29	-11					
HUKUOKA	1.33	340.4	0 21A	-5	0 51	6					
SIMONOSEKI	1.62	0.4	0 22A	-7	0 53	2					
UWAZIMA	1.65	56.2	0 9	-20	0 26	-26					
SIMIDU	1.79	74.7	0 6	-25	0 20	-35					
TOMIE	1.84	279.9	0 30	-2	1 35	40					
YAKUSIMA	1.90	190.9	0 19	-13	0 58	1					
MATUYAMA	2.18	45.5	0 19	-17	0 51	-12					
ITUHARA	2.32	324.3	0 39	1	1 18	12					
HIROSIMA	2.40	31.4	0 24	-15	1 6	-2					

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1961

PAGE 753

KOTI	2.52	60.2	0 24	-16	0 52	-19		
TSURUGISAN	3.01	58.8	0 43	-4	1 14	-9		
TAKAMATU	3.30	51.9	0 42	-9	1 13	-17		
OKAYAMA	3.44	46.1	0 37	-16	1 17	-16		
TOKUSIMA	3.53	59.4	1 0	6	1 24	-11		
MATSUE	3.60	29.3	0 46	-9	1 35	-2		
YONAGO	3.70	32.5	0 49	-7	1 38	-2		
SUMOTO	3.90	57.9	0 52	-7	1 42	-2		
WAKAYAMA	4.04	60.7	1 4	3				
TOTTORI	4.18	39.6	0 48	-15				
SIOMISAKI	4.24	73.3	1 10	6	1 59	6		
KOBE	4.27	55.4	0 57	-7	1 48	-5		
SAIGO	4.35	26.7	1 6	1	2 3	8		
OSAKA	4.50	57.7	1 9	2	2 4	5		
TOYOOKA	4.56	44.3	1 5	-3	1 58	-2		
ABUYAMA	4.64	55.5	0 49	-20				
OWASE	4.76	67.1	1 0	-11	1 30	-35		
KYOTO	4.83	54.9	0 37	-35	1 54	-13		
MAIZURU	4.87	48.6	1 13	1	2 10	2		
TU	5.25	61.6	1 1	-16				
KAMEYAMA	5.28	60.0	1 4	-14	2 19	1		
HIKONE	5.33	55.0	1 0	-18	2 26	7		
TSURUGA	5.42	50.8	1 0	-20				
GIHU	5.76	56.2	1 7	-17				
MAGOYA	5.79	59.0	1 6	-19	2 2	-28		
OMASAKI	6.51	67.6			2 20	-28		
IIDA	6.57	59.1	1 20	-15				
SHIZUOKA	6.78	65.0			2 33	-21		
MATUMOTO	7.03	54.2			3 5	4		
MAZIMA	7.05	42.6	1 37	-5			2 17	
MISIMA	7.25	65.2						
HUIATU	7.26	62.0			3 29	23		
AJIRO	7.34	66.0	1 25	-21				
MATUSIRO	7.35	53.1	1 27K	-19	2 46	-22		3 22
NAGANO	7.41	52.2	2 0	13	3 26	16		
DIWAKE	7.47	55.6	1 39	-9	3 34	23		
OSIMA	7.48	68.6	1 24	-24				
MAEBASI	7.87	56.7	2 45	52				3 42
YOKOHAMA	7.90	64.5			3 55	33		
KUMAGAYA	7.98	59.1					2 46	
TOKYO C.M.O.	8.06	63.1			3 33	7		
ZO-SE	8.38	264.2	2 4	4				
UTUNOMIYA	8.51	57.9	2 14	12				
TUKUBASAN	8.54	60.4	1 43	-19	3 19	-18		
KAKIOKA	8.60	60.5	1 49	-14				
NIIGATA	8.69	47.8	3 3	59	4 10	29		
MI TO	8.88	60.3					4 26	64
NANKING	10.29	271.8	2 28	3				
VLADIVOSTOK	10.81	3.8	2 25	-7	4 29	-3		
CHANGCHUO	12.30	340.6	2 53A	1	6 23	76		
PEKING	14.17	307.0	3 20A	4	6 14	23		
Y.-SAKHLINSK	17.23	28.2	3 43	-12				
HONG KONG	17.90	240.3	4 1	-2	7 47	32		
CANTON	18.06	243.8	4 9	4	7 46	27		
SIAN	18.49	281.9	4 13	4				
PAOTOW	18.68	302.0	4 14	2				
UGLEGORSK	18.72	23.4	4 5	-7			7 27	
MAKILA	19.73	209.3	4 33	10				
GUAM	22.64	142.9	4 51	-1				
LANCHOW	22.68	286.9	4 54	2	9 7	19		
CHENG TU	22.98	273.0	4 58	3	9 17	24		
ULAN-BATOR	23.94	317.6	5 5	1	9 33	23		
KUMING	25.68	261.0	5 30	9	10 13	34		
PETROPAVLOVK	28.75	35.8	5 35	-14				
TIKSI	39.38	359.0					8 51	PP
MEDAN	41.60	233.3	7 47	9				
PORT MORESBY	44.29	156.7	8 0	0	14 20	-4		
FRUNSE	45.08	300.2	8 7	1				
NEW DELHI	46.06	280.1	8 9K	-5				
QUETTA	53.99	285.9	9 14	0				
CHARTERS TS.	54.14	162.1	9 5	-10				
KHEYS	55.54	349.0	9 22	-4	17 7	7	12 33	PPP
COLLEGE	57.59	30.0	9 35	-5				
BRISBANE	62.92	158.2	10 18	2				
ADELAIDE	67.34	173.1	10 37	-8			10 47	
NURMIJARVI	69.81	329.6	10 57	-3				
VICTORIA	75.79	41.3	11 30	-5				
FORT NELSON	76.39	167.7	11 42A	4				

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1961

PAGE 754

PENTICTON	77.42	39.2	11 39	-5					
COLLMBERG	80.48	325.8	11 59A	-2				12 11	PCP
HUNGRY HORSE	80.95	37.7	11 59	-4		12 8			
KARAPIRO	81.33	145.8	11 58	-7					
LJUBLJANA	83.13	321.1	12 13	-1				12 47	
BENSBERG	83.41	328.0	12 16	0					
STUTTGART	83.96	325.5	12 17	-1					
EUREKA	85.43	45.6	12 20	-6		12 30			
WOODY	85.94	50.0	12 23	-5					
ROME	86.96	318.9						23 33	PS
FLAMING GRGE	88.31	41.2	12 36	-4					
RAPID CITY	89.36	35.7	12 31	-14					
GLEN CANYON	89.68	45.3	12 40	-6					
WICHITA MTS.	98.70	39.3	13 24	-3					
PALISADES	103.52	19.1			25 48 91			33 2	SS
SOUTH POLE	122.15	180.0	18 38	-3					
HUANCAYO	148.57	56.0	19 30	0					

AUGUST 11 10.H 25.M 15.S EPICENTRE -18.82 168.01 DEPTH= 169.KM

A=-0.92652 B= 0.19680 C=-0.32067 D= 0.2078 E= 0.9782
G= 0.3137 H=-0.0666 K=-0.9472 HT= 5.0

DEPTH OF FOCUS= 0.021R

SE= 2.37

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PORT VILA	1.12	15.3	0	1K	-27	0	13	-37				
NOUMEA	3.76	202.6	0	44K	-14	1	28	-15				
KOUMAC	3.92	243.2	0	58K	-2	1	35	-12				
SUVA	9.91	87.8	2	17	-2	3	55	-13			2 51	
HONIARA	12.17	319.0	2	39	-10							
BRISBANE	16.39	235.9	3	36	-5	6	48	11				
RAOUL ISLAND	16.51	131.6	3	46	3							
ONERAHI	17.80	162.9	3	56	-2						9 30	
AFIAMALU	19.99	78.9	4	15	-6							
KARAPIRO	20.14	162.5	4	20	-3							
CHARTERS TS.	20.55	262.9	4	26	-1	8	18	17				
RIVERVIEW	21.21	221.9	4	34	1	8	37	24				
RABAU	21.23	311.3	4	33	0							
CHATEAU	21.33	163.7	4	33	-1							
TUAI	21.43	160.1	4	34	-1	8	35	17				
PORT MORESBY	22.27	292.0	4	43	0	8	51	19				
COBB RIVER	22.55	170.7	4	48	2							
WELLINGTON	23.12	166.9	4	52	0							
CANBERRA	23.52	221.9	4	57K	1	9	20	26	5 5		5 15	*SP
KAIMATA	23.80	173.7	4	59	1							
GEBBIES PASS	25.11	172.0	5	9	-2							
MELBOURNE	27.62	221.9	5	33	-1							
MOORLANDS	29.43	212.4	5	50A	0						9 1	PCP
FORT NELSON	29.71	211.5	5	52A	0						9 1	PCP
ADELAIDE	30.52	232.3	5	59K	0							
DARWIN	36.32	274.6	6	49	0							
MUNDARING	48.18	243.7	8	25K	0							
CAPE HALLETT	53.51	179.2	9	5A	0						14 50	
MANILA	56.95	302.5	9	32	2							
SCOTT BASE	59.07	180.3	9	45	1	17	49	13			12 3	PP
LEMBANG	59.83	273.0	9	50	0							
MATUSIRO	61.84	333.0	10	2K	-1	18	25	14				
SOUTH POLE	71.30	180.0	11	4	1				11 9			
MAWSON	78.38	202.2	11	45K	2				11 52		11 57	PCP
BERKELEY	86.35	48.1				23	1	18				
LICK	86.55	48.8	12	24A	-1							
ARGENTINE I.	87.31	160.5	12	28	-1							
SHASTA	87.55	45.5	12	29	-1							
FRESNO	87.62	49.9	12	30A	0							
PASADENA	87.73	52.9	12	31	0	23	11	15				
RENO	88.81	47.4	11	57	-39							
COLLEGE	89.99	17.3	12	39	-2							
VICTORIA	90.54	38.2	12	46	2							
BOULDER CITY	90.97	52.3	12	46	0							
EUREKA	91.49	48.7	12	47	-1						16 25	
TUCSON	92.69	57.0	12	54	0							
PENTICTON	93.14	38.7	12	54	-2							
GLEN CANYON	93.76	52.3	13	1	2							

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1961

PAGE 755

FLAMING GRGE	96.71	49.2	13 12	0	
WICHITA MTS.	103.19	57.6	13 42	1	29 59 PKKP
KIMBERLEY	120.85	217.8			23 46
PALISADES	123.16	52.9			30 8 PS
SHAWINIGAN	123.45	46.2	18 39	2	
BULAWAYO	124.47	227.9	18 43A	4	
KIRUNA	126.88	345.3	18 45	1	
KAJAANI	127.47	339.3	18 44	-1	
NURMI JARVI	130.89	337.0	18 54	3	22 15 SKP
SKAL STUGAN	132.30	345.6			22 20 PKS
UPPSALA	133.83	339.8			22 23 PKS
COLLMBERG	142.05	334.4	19 15	3	22 2 PP
PRUHONICE	142.37	331.8	19 12	-1	22 51 PKS
JENA	142.91	335.2	19 13	0	22 52
KASPERSKE H.	143.42	331.6	19 14	0	22 54 PKS
MUNSTER	143.51	339.6	19 16	2	
BENSBERG	144.51	339.0	19 18	2	
LJUBLJANA	145.13	327.1	19 20A	3	22 58 PP
HEIDELBERG	145.24	336.1	19 20	2	
STUTTGART	145.53	334.9	19 21	3	
TRIESTE	145.79	327.2	19 22	4	19 52
TUBINGEN	145.81	334.8	19 22	4	
EBINGEN	146.12	334.6	19 23	4	
STRASBOURG	146.28	336.1	19 24	5	20 25
BASLE	147.20	335.2	19 27	6	
BESANCON	148.05	336.6	19 29	7	
FLORENCE X.	148.37	327.0	19 23	0	
FOLINIERE	148.71	345.3	19 29	6	
ROME	148.98	323.1	19 32	8	20 28
GARCHY	149.05	339.9	19 39	15	
ISOLA	150.10	331.9	19 33	8	
MONACO	150.28	330.9	19 29	4	
CLERMONT-FD.	150.35	338.4			24 35

AUGUST 11 11.H 4.M 46.S EPICENTRE 0.13 124.18 D:PTH= 203.KM

A=-0.56178 B= 0.82728 C= 0.00224 D= 0.8273 E= 0.5618
G=-0.0013 H= 0.0019 K=-1.0000 HT= 7.2

DEPTH OF FOCUS= 0.027R

SE= 1.59

	DELTA DEG.	AZ. DEG.	P			O-C			*PP			SUPP.	
			M	S	S	M	S	S	M	S	M	S	
MANILA	14.77	348.2	3	22	2								
LEMBANG	17.91	247.0	3	54	-3						10	20	
NHATRANG	19.10	309.5	4	9	0	7	40	10					
HONG KONG	24.10	336.8	4	59	1	9	5	7			5	42 PP	
PORT MORESBY	24.75	113.1	5	5	1	9	16	7			6	6	
CANTON	25.14	335.9	5	10	2	9	20	4					
MEDAN	25.71	278.0	5	13K	0								
RABAU	28.30	99.1	5	24	-13								
CHARTERS TS.	29.52	134.2	5	46	-2	10	30	4					
NANKING	32.17	351.4	6	11	0	11	12	5					
KUNMING	32.36	321.7	6	13	1	11	17	7					
MUNDARING	32.80	192.6	6	14A	-2								
CHENG TU	35.90	329.6	6	42	0	12	6	1					
SIAN	36.83	338.7	6	51K	1	12	24	5					
ADELAIDE	37.47	160.2	6	55	-1	12	32	3	7	26	8	20 PP	
MATUSIRO	38.50	18.3	7	2A	-2	12	44	0			9	13 PCP	
BRISBANE	38.77	137.2	7	7	1	12	52	4					
PEKING	40.38	350.5	7	19	-1								
LANCHOW	40.44	334.2	7	20A	0	13	16	3					
CANBERRA	42.19	149.3	7	36K	2	13	46	7	8	9	9	17 PP	
RIVERVIEW	42.21	145.8	7	36	1	13	36	-3			17	11 SCS	
PAOTOW	42.27	343.9	8	6	31	14	36	56					
LHASA	43.11	315.9	7	43	1	13	56	4					
VLADIVOSTOK	43.36	8.2	7	59	15								
CHANGCHUN	43.52	1.2	7	45	0								
CHATRA	44.39	309.7	7	51	-1								
MOORLANDS	47.17	156.8	8	17	3								
Y.-SAKHLINSK	49.43	16.6	8	28	-3	15	21	0					
NEW DELHI	53.05	306.4	8	56A	-2	16	10	-1					
WARSAK DAM	59.64	310.1	9	49	4								
PETROPAVLOVK	60.01	23.3	9	48	1								

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1961

PAGE 757

Y. -SAKHLINSK	4.45	337.5	1	6	-1				2	13
MI ZUSAWA	4.90	220.4	1	14	1	2	9	0		
AKITA	5.01	231.8	1	17A	2	2	14	2		
ISINOMAKI	5.39	214.6	1	20A	0	2	18	-4		
SENDAI	5.70	216.5	1	24A	0	2	25	-5		
SAKATA	5.73	227.1	1	27A	2	2	31	1		
YAMAGATA	5.97	219.9	1	28A	0	2	33	-3		
HUKUSIMA	6.32	216.5	1	33A	0	2	40	-5		
UGLEGORSK	6.52	341.5	1	37	1					
ONAHAMA	6.84	210.4	1	37A	-3	2	51	-7		
NIIGATA	6.87	225.2	1	42A	1	2	55	-4	3	37
SHIRAKAWA	6.96	215.0	1	41	-1	2	58	-3		
AIKAWA	7.23	229.5	1	47A	1	3	52	44		
MITO	7.50	210.7	1	48A	-2	3	6	-8		
UTUNOMIYA	7.59	214.6	1	49	-2	3	11	-6		
KAKIOKA	7.74	211.7	1	49	-4	3	13	-7		
TUKUBASIN	7.78	212.1	1	50	-3	3	11	-10	2	14 *SP
TAKADA	7.91	224.8	1	56A	1	3	17	-7		
TYOSI	7.96	206.5	1	55	-1	3	20	-6		
MAEBASI	8.06	218.0	1	57A	0	3	24	-4		
KUMAGAYA	8.14	215.5	1	53A	-5	3	19	-11		
NAGANO	8.26	223.1	2	1A	1				3	5
HONGO	8.36	212.1	1	56	-5					
MATUSIRO	8.36	222.5	2	1A	0	3	28	-8		
OIWAKE	8.36	220.1	2	1	-1	3	28	-8		
TOKYO C.M.O.	8.39	212.1	1	59A	-3	3	28	-8		
TITIBU	8.41	216.3	2	0	-2	3	35	-2		
WAZIMA	8.44	231.7	2	3	0	3	32	-6		
YOKOHAMA	8.65	211.7	2	3	-3	3	40	-3		
MATUMOTO	8.71	222.3	2	6	0	3	40	-4		
TOYAMA	8.76	227.3	2	8	1	3	16	-30		
KOHU	8.90	217.6	2	7A	-2	3	37	-12		
HUNATU	8.95	216.0	2	7	-3				2	54
MERA	9.04	209.4	2	8A	-3	4	9	17		
TAKAYAMA	9.15	224.8	2	13	1				2	51
AJIRO	9.20	213.1	2	11	-2	3	48	-9		
MISIMA	9.20	214.0	2	13	0	3	50	-7		
IIDA	9.36	220.1	2	15A	0	4	16	16		
SHIZUOKA	9.56	215.9	2	15	-3	4	20	15		
NAGATURO	9.69	212.9	2	31	11				3	51
VLADIVOSTOK	9.75	275.6	2	22	1	4	12	2		
HUKUI	9.77	228.2	2	22	1				5	52
OMASAKI	9.95	215.5	2	26	3					
GIHU	9.98	223.8	2	25	1	4	14	-2		
TSURUGA	10.15	227.2	2	26	0					
HIKONE	10.34	225.2	2	30A	1	4	21	-4		
KAMEYAMA	10.56	223.0	2	31	-1	4	33	3		
MAIZURU	10.66	228.8	2	33A	0	4	29	-3		
KYOTO	10.81	226.1	2	35	0	4	34	-2		
TOYOOKA	10.93	230.9	2	37A	0	4	34	-5		
ABUYAMA	11.01	226.1	2	36	-2					
NARA	11.02	224.7	2	37	-1				2	56
OSAKA	11.20	225.5	2	39A	-2	4	57	12		
TOTTORI	11.32	232.7	2	43	1	4	47	-1		
OWASE	11.32	221.5	2	39A	-3	5	11	23		
KOBE	11.36	226.8	2	41A	-2	4	38	-11		
SAIGO	11.37	237.7	2	43	0	4	49	-1		
WAKAYAMA	11.71	225.4	2	46A	-1	5	5	7		
SUMOTO	11.76	226.5	2	46A	-2	5	9	10	10	26
YONAGO	11.86	234.7	2	49	0	5	2	0		
HIMEJI	11.92	228.6	2	45	-5					
MATSUE	12.02	235.6	2	52	0	5	3	-2		
SIOMISAKI	12.03	221.2	2	48	-4	5	5	-1		
OKAYAMA	12.06	230.6	2	51	-1	5	7	1		
TOKUSIMA	12.15	226.7	2	13	-40					
TAKAMATU	12.25	229.0	2	54	-1	5	39	28		
TSURUGISAN	12.62	227.7	3	44	44				6	34
TORISIMA	13.04	199.1	2	58	-7	5	13	-17		
KOTI	13.11	228.2	3	5A	-1	5	24	-8		
HIROSIMA	13.14	233.6	3	5A	-2	5	30	-2		
MATUYAMA	13.31	231.1	3	7	-2	5	48	12		
PETROPAVLOV	13.49	37.0	3	9	-2				3	17 PP
UWAZIMA	13.89	229.9	3	15	-1	6	15	25		
SIMIDU	14.00	227.6	3	17A	-1	6	4	11		
SIMONOSEKI	14.33	235.9	3	21	-1					
OOITA	14.42	232.3	3	22A	-1	5	59	-4		
CHANGCHUN	14.50	280.3	3	23A	-1	6	3	-2		
HUKUOKA	14.92	236.1	3	26	-4	6	12	-2		

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1961

PAGE 758

ASOSAN	14.98	232.7	3 31	0	6 21	5	
SAGA	15.19	235.4	3 32	-1			
KUMAMOTO	15.25	233.3	3 33A	-1	6 45	23	
MIYAZAKI	15.50	229.3	4 37A	60	7 49	81	
UNZENDAKE	15.58	234.1	3 40A	2	5 44	-46	
NAGASAKI	15.80	234.9	3 40A	-1	7 6	31	
KAGOSIMA	16.25	230.5	3 42A	-5	7 9	23	
TOMIE	16.56	236.9	3 50A	-1	6 45	-8	
KLYUCHI	16.74	31.5	3 50	-3			4 13 PP
MAGADAN	16.99	9.8	3 54	-2			
YAKUSIMA	17.13	228.1	3 56A	-2	7 0	-6	
YAKUTSK	21.20	339.6	4 40	-4			
PEKING	21.90	272.3	4 50A	-1	8 45	-1	
ZO-SE	22.45	246.2	4 57A	0	8 58	2	
NANKING	23.52	251.3	5 8A	1	9 21	6	
ISIGAKIZIMA	25.40	229.8	5 23	-2	9 59	12	
PAOTOW	26.24	276.9	5 34A	1	10 1	0	
TAIPEI	26.41	235.0	5 36	1	10 23	19	
ILAN	26.47	234.3	5 39	4	10 37	32	
ULAN-BATOR	27.15	293.9	5 41	-1	10 12	-4	
HWAL IEN	27.15	233.4	5 44	2			8 45
TAICHUNG	27.57	235.0	5 47	2			
HSINKONG	27.96	232.5	5 51	2			
ALISHAN	27.97	234.0	5 50	1	10 51	22	
TAITUNG	28.36	232.4	5 54	1	10 29	-6	
TAINAN	28.71	234.1	5 55	-1			
IRKUTSK	28.76	303.3	5 55A	-1	10 37	-5	
TAWU	28.81	232.3	5 57A	0	11 11	29	
KAOHSIUNG	28.97	233.5	6 0	2			
HENGCHUN	29.17	232.0	6 3A	3			15 47
SIAN	29.48	265.1	6 3A	0	10 52	-1	
LANCHOW	32.41	271.9	6 29A	1	11 37	-2	
CANTON	32.97	243.3	6 34A	1	11 47	-1	
HONG KONG	32.99	241.3	6 36A	3			9 4 PCP
CHENG TU	34.86	263.2	6 49	-1	12 16	-1	
MANILA	34.97	223.7	6 55	4	12 14	-5	
KUNMING	38.96	256.8	7 25A	1	13 15	-5	
COLLEGE	42.57	35.5	7 54A	0	14 11	-3	9 56 PCP
NHATRANG	43.65	236.4	8 5	2	14 32	3	
TOCKLAI	43.77	265.2	8 8A	4	14 36	5	9 49 PP
SEMI PALATNSK	43.91	303.3	8 4	-1	14 28	-5	
LHASA	44.91	271.3	8 15A	2	14 47	0	
SHILLONG	46.58	266.0	8 25A	-1	15 17	6	10 12 PP
RABAU	47.34	170.5	8 33	1			
KHEYS	47.50	347.2	8 30	-3	15 19	-5	8 58
CHITTAGONG	48.54	262.6	8 39	-2	15 34	-5	
CHATRA	49.30	270.7	8 51A	4	15 45	-5	10 40 PP
SITKA	50.08	44.5	8 54A	1	16 2	2	
FRUNSE	50.26	295.5	8 54	-1	16 2	-1	11 45 PPP
CALCUTTA	50.95	265.3	9 4A	4	15 57	-16	11 1 PP
KIPAPA	51.58	95.9	9 5K	1			
HONOLULU	51.60	96.0	9 6A	1	16 28	7	
BOKARO	52.05	268.5	9 18A	10	16 38	10	11 18 PP
PORT MORESBY	52.11	177.6	9 6	-3			16 29
SVERDLOVSK	52.76	316.6	9 13	0			14 21 PCS
HONIARA	53.83	161.9	9 24	3			
DEHRA DUN	54.03	280.0	9 23	0	16 53	-2	11 23 PP
TASHKENT	54.48	296.2	9 26	0	16 59	-2	11 31 PP
HAWAII V.OB.	54.83	95.8	9 30	1	17 8	3	
KHOROG	54.87	291.0	9 28	-1	17 5	-1	11 33 PP
PORT BLAIR	54.94	251.7	9 35	6	17 27	20	10 19 PCP
NEW DELHI	55.61	278.8	9 34A	0	17 10	-6	9 56
LAHORE	56.03	283.4	9 35	-2	17 19	-2	11 39 PP
RESOLUTE	56.15	16.1	9 36	-2	17 18	-5	
WARSAK DAM	56.67	287.4	9 41	-1	17 28	-2	
MEDAN	56.88	239.9	9 43A	0	17 34	1	
VISHAKHAPTM	57.66	264.4	9 50K	1	17 57	14	12 1 PP
APATITY	58.53	335.3	9 52	-3	17 49	-5	
THULE	59.01	8.8	9 55K	-3			10 8
DJAKARTA	60.01	225.5	10 2A	-3	18 3	-10	11 0
LEMBANG	60.16	224.3	10 5	-1	18 15	0	
VICTORIA	60.31	49.9	10 6A	-1			
SODANKYLA	60.67	337.1	10 7A	-3	18 19	-3	19 51 SCS
HYDERABAD	61.40	267.6	10 16A	1	18 50	19	12 31 PP
PENTICTON	61.97	47.6	10 17A	-1			
KIRUNA	62.03	339.3	10 16A	-3	18 28	-11	39 32 PKPPKP
QUETTA	62.04	286.3	10 18A	-1	18 38	-1	10 33
CORVALLIS	62.54	53.6	10 22	0			12 29 PP

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1961

PAGE 759

KAJAANI	62.57	333.9	10 21A	-1	18 44	-2	39 31	PKPPKP
CHARTERS TS.	62.72	178.9	10 22A	-1	18 43	-5		
MADRAS	63.01	262.6	10 26A	1	18 52	1	12 43	PP
BANFF	63.06	44.2	10 24A	-2				
ASHKABAD	63.42	298.0	10 27	-1			23 8	SS
PORT VILA	64.00	155.4	10 32	0				
POONA	64.08	271.7	10 31A	-1	19 1	-4	12 49	PP
MOSCOW	64.26	323.2	10 31	-3	18 59	-8	14 28	PPP
PULKOVO	64.59	329.5	10 34	-2	19 6	-5	14 34	PPP
BOMBAY	64.60	272.7	10 35	-1	19 7	-4	12 58	PP
SHASTA	65.32	56.7	10 40A	0				
HUNGRY HORSE	65.53	46.1	10 41A	-1	19 20	-3	13 6	PP
KOUMAC	65.58	160.4	10 46	4				
UKIAH	65.73	58.5	10 42A	-1	19 28	3		
MINERAL	66.01	56.6	10 45A	0			11 19	
NURMI JARVI	66.10	332.2	10 43A	-2	19 26	-3	20 30	SCS
KODAIKANAL	66.82	262.3	10 54K	4	20 3	25	13 30	PP
BERKELEY	67.09	59.1	10 51A	-1	19 38	-3	11 4	15 15
BRANNER	67.41	59.5	10 53	-1				
SKALSTUGAN	67.46	339.2	10 52A	-2				
RENO	67.60	56.4	11 18A	23	19 11	-37	11 30	
BUTTE	67.76	47.4	10 55A	-1	19 47	-2		
STA. CRUZ C.	67.78	59.7	10 54A	-2				
NOUMEA	67.80	158.8	11 1K	5			11 43	
LICK	67.80	59.3	10 55A	-1				
SUVA	68.04	145.8	11 1	3	19 56	3	15 22	PPP
VINEYARD	68.33	59.6	10 59	0				
BOZEMAN	68.80	46.9	11 2A	0	20 1	-1	39 12	PKPPKP
UPPSALA	68.91	334.6	11 1A	-2	19 56	-7	39 5	PKPPKP
AFIAMALU	68.94	134.8	11 16	13	20 6	2	24 2	SS
TEHERAN	69.21	299.7	11 5	0			13 34	PP
FRESNO	69.31	58.8	11 5	0				
TIFLIS	69.47	308.2	11 7A	1	20 11	1	15 27	PPP
EUREKA	69.96	54.5	11 7A	-2			13 25	PP
GORIS	69.98	305.6	11 9A	-1	20 16	0	13 52	PP
BRISBANE	70.33	172.9	11 13	1	20 22	2		
SALT LAKE C.	71.54	51.3	11 18A	-1	20 34	0		
BERGEN	71.92	340.3	11 20	-1	20 37	-1	20 46	PS
PASADENA	72.00	60.0	11 21A	-1	20 34	-5	11 32	25 26
GOTEBORG	72.39	335.8	11 22A	-2	20 39	-5		SS
REYKJAVIK	72.79	354.1	11 27A	1	20 55	7		
SIDA	72.80	352.3	11 26A	0				
FLAMING GRGE	72.83	49.9	11 26A	-1				
BOULDER CITY	72.90	56.7	11 27A	0				
SIMFEROPOL	73.13	316.2	11 28A	0	20 51	-1	14 11	PP
VIK	73.25	352.7	11 30	1				
WARSAW	73.66	328.0	11 31	0	20 54	-4	14 16	PP
COPENHAGEN	73.92	334.4	11 32A	-1	21 0	-1	14 6	PP
RAPID CITY	73.99	44.2	11 33A	0	21 2	0	11 45	
GLEN CANYON	74.21	54.1	11 34A	-1	21 6	2	15 43	
KISHINEV	74.23	320.4	11 34	-1	21 2	-2	16 4	PPP
LWOW	74.28	324.9	11 35	0	21 3	-2	16 5	PPP
IASI	74.68	321.2	11 37	0	21 7	-2		
BACAU	75.46	321.1	11 50	8			22 10	
KRAKOW	75.79	327.1	11 44A	0	21 16	-6	14 18	PCP
CHORZOW	75.97	327.8	11 44	-1	21 21	-3	14 14	PP
SKALNATE PL.	76.35	326.4	11 48	1	21 26	-2	14 37	PP
RACIBORZ	76.45	328.0	11 48	1	21 27	-2	11 54	14 35
ABERDEEN	76.55	342.4	11 46A	-2	21 29	-1	14 52	PP
RIVERVIEW	76.59	174.9	11 48A	0	21 33	3	11 59	14 46
CAMPULUNG	77.30	321.3	11 53	1	21 40	2		
COLLMBERG	77.37	331.5	11 52A	-1	21 34	-5	16 26	PPP
BUCHAREST	77.44	320.1	11 52A	-1	21 38	-2	14 44	PP
HALLE	77.57	332.2	11 54	0	21 37	-4		
ADELAIDE	77.76	185.5	11 55A	0	21 42	-1		
TUCSON	77.86	57.3	11 56A	1	21 43	-1	15 2	PP
TUCSON TELE.	77.86	57.1	11 56A	1				
PRAGUE	77.88	330.1	11 56	1	21 45	1	22 8	PS
PRUHONICE	77.91	329.9	11 56A	0	21 39	-6	14 58	PP
EDINBURGH	77.94	342.4	11 57	1	21 46	1	12 22	15 5
CANBERRA	77.96	176.8	11 56A	0	21 46	1	12 12	26 58
WITTEVEEN	78.14	335.8	11 57A	0				
JENA	78.18	332.1	11 56	-1	21 34	-14	14 56	PP
BUDAPEST	78.19	326.0	11 58	1	22 1	13	21 48	SKS
HURBANOVO	78.22	326.7	12 0	3	21 52	4	14 58	PP
BRATISLAVA	78.41	327.5	11 58A	0	21 50	0	14 59	PP
ISTANBUL KA.	78.49	316.2	11 59A	0	21 49	-2	12 28	14 55
ISTANBUL UN.	78.55	316.2	11 57	-2	21 50	-2		
MUNSTER	78.59	334.8	11 59	0	21 50	-2		

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1961		PAGE 760									
CHEB	78.61	331.2	11 57	-2	21 49	-3			14 47	PP	
DURHAM	78.63	341.1	11 58K	-2	21 51	-1	12 18		22 13	SKS	
TIMI SOARA	78.63	323.7	11 59	-1	21 48	-4					
VIENNA-H.	78.64	327.9	11 59A	-1	21 53	1			41 59	PP	
KASPERSKE H.	78.97	330.0	12 1A	0	21 52	-4			13 17		
MUNDARING	79.15	204.8	12 2	0	21 58	0					
DE BILT	79.22	336.2	12 2A	-1	21 59	0			15 3	PP	
PERTH	79.25	205.1	12 6	3	22 3	4			15 19	PP	
BENSBERG	79.61	334.5	12 4A	-1	22 0	-3			14 57	PP	
BELGRADE	79.70	323.5	12 5A	0	22 2	-2			14 52	PP	
KSARA	80.00	307.1	12 8A	1	22 8	1			15 9	PP	
SOFIA	80.05	320.5	12 8	1	22 8	1					
HEIDELBERG	80.45	332.9	12 9A	0							
STUTTGART	80.80	332.2	12 10A	-1	22 12	-3			15 11	PP	
KARLSRUHE	80.89	332.8	12 12	0	22 30	14					
TUBINGEN	81.08	332.2	12 13A	0							
LJUBLJANA	81.16	327.7	12 12A	-1	22 15	-4			15 19	PP	
KEW	81.32	339.0	12 14A	0	22 19	-1	12 33		15 20	PP	
EBINGEN	81.41	332.1	12 14A	0							
STRASBOURG	81.47	333.0	12 14A	-1	22 18	-4			15 21	PP	
SKOPJE	81.50	321.2	12 16	1	22 23	1					
RAVENSBERG	81.53	331.5	12 15A	0							
TRIESTE	81.80	327.9	12 15	-1	22 22	-3			28 1	SS	
TITOGRAD	82.12	322.8	12 18	0	22 27	-2			22 50	SCS	
CHUR	82.36	331.1	12 19	0	22 30	-1					
BASLE	82.45	332.6	12 20A	0	22 34	2					
PADOVA	82.72	328.9	12 20A	-1	22 36	1			15 51	PP	
ONERAHI	82.73	156.5	12 32	11	22 40	5					
PARIS	82.93	336.2	12 23	1	22 35	-2			15 32	PP	
NEUCHATEL	83.12	332.7	12 22	-1	22 38	-1					
BESANCON	83.22	333.4	12 24	0					16 33	PPP	
WICHITA MTS.	83.24	48.1	12 24A	0	22 41	1			15 24	PP	
CHIHUAHUA	83.31	57.0	12 32	8	23 6	25			18 36		
ATHENS	83.53	317.3	12 24A	-1	22 40	-3					
BOLOGNA	83.69	328.7	12 16	-10					23 46	PS	
FOLINIERE	83.82	338.0	12 25	-2							
AUCKLAND	83.88	156.5	12 31	4	22 49	3			28 32	SS	
JERSEY	83.88	339.1	12 28A	1	22 45	-1					
GARCHY	84.13	335.2	12 33	5					12 38	PCP	
PRATO	84.31	328.5	12 30	1	22 45	-6					
FLORENCE X.	84.33	328.4	12 27A	-2	22 53	2					
FAYETTEVILLE	84.53	44.5	12 29A	-1	22 45	-8			42 6	SKPP	
TARANTO	84.59	322.8	12 27	-4	22 47	-6			26 47		
CHIAVARI	84.60	329.9	12 28	-3	21 53	-61			16 52	PP	
SHAWINIGAN	84.74	25.2	12 31A	0							
OTTAWA	84.79	27.6	12 30A	-2							
TARRALEAH	84.86	179.1	12 34A	2					12 39	PCP	
MOORLANDS	85.01	178.5	12 34A	1					12 39	PCP	
KARAPIRO	85.08	156.4	12 35	2					15 51	PP	
ROME	85.43	326.6	12 33A	-2	22 59	-3	13 16		24 24	PS	
FORT NELSON	85.51	178.4	12 36A	1	23 5	3					
HELWAN	85.52	307.2	12 36	1	22 55	-8					
ISOLA	85.54	331.2	12 35	0	22 59	-4					
MONACO	85.80	330.8	12 36	-1	23 9	4					
CLEVELAND	86.00	33.3	12 38A	0	22 56	-11					
CHATEAU	86.26	156.8	12 39	0					16 1	PP	
TUAI	86.37	155.5	12 39	0							
MESSINA	87.21	322.6	12 41A	-2	23 16	-3	13 6		16 8	PP	
REGGIO CALA.	87.24	322.5	12 44	0	23 17	-2					
COBB RIVER	87.25	159.5	12 50	6	23 24	5			23 4	SKS	
WELLINGTON	87.97	158.2	12 48	1	23 26	0			23 7	SKS	
PENNSYLVANIA	88.02	31.3	12 49	2	23 10	-16	13 48		14 5	*SP	
MORGANTOWN	88.21	33.2	12 53A	5	23 9	-19					
KAIMATA	88.28	160.9	12 52	3	23 10	-19					
CUGLIERI	88.45	328.2			23 56	26			33 16	SSS	
BAGNERES	88.81	335.2	12 52	1	23 38	4	13 8		16 20	PP	
HALIFAX	89.11	20.1	12 52A	-1							
PALISADES	89.28	28.5	12 52	-1	23 40	2	13 5		16 18	PP	
GEBBIES PASS	89.69	160.5	12 57	2	23 21	-21					
WASHINGTON	89.97	31.7	12 57K	0	23 15	-29			16 35	PP	
ROXBURGH	90.62	163.3	13 12	12	23 56	6			23 58	SKS	
TORTOSA	90.74	334.0	13 0	0	23 26	-25					
GUADALAJARA	90.77	60.6	13 6	6	23 54	3			23 36	SKS	
TOLEDO	92.99	336.8	13 11A	0	24 4	-7			16 55	PP	
SERRA PILAR	93.04	340.5	13 8K	-3	24 4	-8			16 54	PP	
ALICANTE	93.30	333.6	13 15	3	23 59	-15			16 51	PP	
COIMBRA	93.88	340.1	13 13A	-2	24 5	-14			16 54	PP	
TACUBAYA	94.32	58.6	13 25	8	23 47	-35			17 11	PP	

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1961

PAGE 761

ALMERIA	95.31	334.5	13 20A	-1	24 13	20	17 11	PP
GRANADA	95.35	335.5	13 24A	3	23 51	-2	17 7	PP
LISBON	95.46	340.1	13 21A	-1	24 16	23	17 14	PP
VERA CRUZ	96.37	56.6	13 38	12	24 2	4	26 42	PPS
OAXACA	97.62	58.4			24 8	3	26 2	PS
COMITAN	101.06	55.5			24 22	0	32 26	SS
TANANARIVE	108.15	260.9	18 5	777	25 1	7	18 52	PP
LWIRO	110.66	287.0	18 31	3			14 30	P
SAN JUAN	112.52	32.3	19 22K	50	26 2	50	20 25	PP
BANGUI	112.64	299.8	18 32	0			18 46	SPKP
BALBOA HTS.	114.21	49.7			24 45	-34	26 26	S
GALERAZAMBA	115.01	44.7			26 35	73	19 59	PP
CAPE HALLETT	116.28	171.7	18 41	2	25 28	2	19 52	PP
BROKEN HILL	119.24	277.5	18 47A	2				
CARACAS	119.25	36.8	18 49A	4			27 48	
CHINCHINA	119.68	48.6	18 47	1	25 39	0	20 11	PP
FUQUENE	120.29	46.4	18 49	2			20 17	PP
MBOUR	120.66	339.8			26 14	32	20 30	PP
BOGOTA	120.82	47.3	18 55	7	25 44	2	20 21	PP
SCOTT BASE	121.24	174.8	18 51	2	25 50	6	20 33	PP
BULAWAYO	122.77	272.3	18 53A	1				
LUANDA	126.10	294.6	18 59A	1	26 6	7	20 54	PP
MAWSON	126.11	208.0	18 59A	1	26 2	3	19 11	21 13
PRETORIA	126.46	267.2	19 0	1				
PIETERMZBURG	127.02	261.9	18 58K	-2				
GRAHAMSTOWN	131.74	260.0	18 55	-14				
WINDHOEK	132.68	278.4	19 1	-10				
SOUTH POLE	132.75	180.0	19 23	12			26 56	
HUANCAYO	133.37	61.0	19 15	3			22 38	PKS
HERMANUS	137.61	262.9					22 8	PP
LA PAZ	141.27	57.4	19 32	5			23 7	PKS
ANTOFAGASTA	144.93	68.3	19 35	2				
ARGENTINE I.	152.23	153.6	19 51	6				

AUGUST 11 22.H 37.M 26.S EPICENTRE -2.85 122.11 DEPTH= 47.KM

A=-0.53088 B= 0.84600 C=-0.04945 D= 0.8470 E= 0.5315
G= 0.0263 H=-0.0419 K=-0.9988 HT= 7.1

DEPTH OF FOCUS= 0.002R

SE= 2.32

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
DARWIN	12.81	138.1	2	58	-4						5	44
LEMBANG	14.97	254.2	3	31	1						9	42
DJAKARTA	15.58	257.2	3	37K	-1						8	4
MANILA	17.44	356.7	4	6	4						4	33
BAGUIO CITY	19.21	355.5	4	19	-4	7	55	3				
NHATRANG	19.71	319.7	4	28	0	8	11	8				
MEDAN	24.27	285.1	5	15	1	9	47	20				
PORT MORESBY	25.72	105.8	5	28	0	9	51	0			7	17
HONG KONG	26.18	343.1	5	33	1	9	54	-5				
CHARTERS TS.	29.14	127.8	5	59	0	10	45	-1				
MUNDARING	29.49	190.2	6	1A	-1							
PERTH	29.54	190.9				12	10	17			6	53
RABAUL	30.03	93.4	6	2	-5							
KUNMING	33.56	327.1	6	39A	1	12	3	7				
ZO-SE	33.78	358.6	6	45	5	12	2	3				
NANKING	34.86	355.1	6	53	4	12	17	1				
ADELAIDE	35.49	156.1	6	54K	0	12	28	2				
CHENG TU	37.54	333.9	7	11	-1	12	46	-11				
BRISBANE	38.14	132.7	7	18	1	13	15	9				
HONIARA	38.16	101.6	7	17	0							
CHITTAGONG	38.77	311.8	7	18	-4	13	10	-6				
SIAN	38.94	342.5	7	24	1	13	12	-6				
TOCKLAI	39.54	319.8	7	32	4							
MELBOURNE	40.63	151.8	7	38	1							
SHILLONG	40.70	315.8									22	38
CANBERRA	40.81	145.5	7	40K	1	13	52	6	7	45	9	18
RIVERVIEW	41.04	142.0	7	40A	-1	13	52	2			9	19
MATUSIRO	41.97	19.5	7	48K	0	13	57	-6			10	5
LANCHOW	42.30	337.8	7	52A	1	14	9	1				
PEKING	43.02	353.3	7	57	0	14	13	-6				
VI SHAKHAPTNM	43.38	299.6	8	1K	1	14	29	5				

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1961										PAGE 762	
LHASA	43.91	319.6	8	5A	1						
BOKARO	44.18	308.9	7	42	-24	14	24	-12		10	9
PAOTOW	44.62	346.9	8	9	-1	14	35	-7			
KOUMAC	44.69	116.5	9	11A	61						
CHATRA	44.81	313.4	8	13K	2	14	44	-1		9	57 PP
TARRALEAH	44.91	154.3	8	14K	2						
MI ZUSAWA	45.30	20.9								12	23
MOORLANDS	45.34	153.8	8	17K	1						
FORT NELSON	45.81	154.1	8	20K	1	15	7	8			
VLADIVOSTOK	46.61	9.9	8	23	-3						
NOUMEA	47.14	118.0	8	30K	0						
PORT VILA	47.65	111.4	8	35K	1						
POONA	52.03	296.1	9	6	-1						
ULAN-BATOR	52.29	347.1	9	7	-2	16	31	2			
Y.-SAKHLINSK	52.87	17.6	9	8	-6						
BOMBAY	53.07	296.1								16	42
NEW DELHI	53.23	309.2	9	14A	-2	16	44	2		10	20 PCP
DEHRA DUN	53.43	311.5	9	19	1	17	54	69		12	28 PPP
LAHORE	56.82	310.9	9	42	0						
IRKUTSK	56.95	347.1	9	46	3	17	35	3			
SUVA	57.18	109.7				17	45	9		11	0
MACQUARIE I.	59.57	156.1	10	2	0						
KARAPIRO	59.95	132.8	10	4	0					10	52
WARSAK DAM	60.03	312.2	10	7	2						
CHATEAU	60.43	134.1	10	7	0						
WELLINGTON	60.72	136.6	10	8	-1					11	4
ALMATA	61.27	323.8	10	13	0	18	26	-2			
TUAI	61.44	133.2	10	13	-1						
QUETTA	62.01	306.4	10	16A	-2	18	33	-4		12	38 PP
FRUNSE	62.42	322.3	10	19A	-2						
ANDIJAN	62.73	319.3	10	22	-1	18	50	4			
NAMANGAN	63.30	319.2	10	26	-1	18	59	5			
PETROPAVLOVK	63.55	23.7	10	18	-10						
SEMI PALATNSK	64.02	331.6	10	31	0						
STALINABAD	64.10	315.7	10	30	-2						
YAKUTSK	64.96	4.0	10	38	1						
TASHKENT	65.04	318.5	10	37	-1						
AFIAMALU	66.14	103.9	10	46K	1						
MAGADAN	66.19	15.5	10	48	3	19	38	9			
MIRNY	66.76	192.2	10	48	-1	19	39	3			
TANANARIVE	74.47	251.3	11	37K	2						
CAPE HALLETT	75.47	166.4	11	41A	0	21	21	4		26	14 SS
MAWSON	76.02	199.8	11	45K	1	21	28	5	11	51	
TEHERAN	76.14	307.7	11	45	0	21	25	1			
SVERDLOVSK	77.24	330.3	11	50	-1						
SCOTT BASE	78.53	171.3	11	59A	1						
MAKHACH-KALA	80.74	314.2	12	7	-3						
GORIS	80.88	310.6	12	10	-1						
TIFLIS	82.44	312.5	12	20A	1						
HAWAII V.OB.	83.99	70.2	12	30	3						
SOTCHI	86.44	313.8	12	39	0						
SOUTH POLE	87.17	180.0	12	39	-4						
KSARA	88.44	303.8	12	50	1	23	48	19		16	26 PP
KHEYS	88.69	351.5	12	50	0	23	36	5			
MOSCOW	89.22	325.7	12	59	7	23	37	1			
SIMFEROPOL	90.57	314.8	12	59	0						
HELWAN	92.08	299.6	13	7	1	23	40	-21			
APATITY	92.11	337.4	13	4	-2						
BULAWAYO	92.31	249.8	13	7A	0						
COLLEGE	92.59	25.3	13	8	0						
BROKEN HILL	92.82	255.5	13	10	1						
LWIRO	93.19	267.6	13	12	1						
PULKOVO	93.35	329.6	13	10	-2						
ISTANBUL KA.	94.15	310.8	13	15	0	23	51	-28		16	56 PP
KISHINEV	94.31	316.8	13	11	-5						
KAJAANI	94.48	333.9	13	17	0						
SODANKYLA	94.73	337.3	13	19A	1						
NURMIJARVI	96.15	330.4	13	23	-1						
BUCHAREST	96.28	314.2								17	20
KIRUNA	97.04	338.0	13	28	0	24	4	3		24	47 S
LWOW	97.39	319.7	13	31	1	24	54	52			
UPPSALA	99.72	330.3	13	34	-6	24	17	3		25	5 S
NIEDZIKA	99.83	319.5	13	41	0					14	47
SKALSTUGAN	101.29	334.6	13	51	3						
COPENHAGEN	103.36	326.8	14	9	12	24	39	8		18	11 PP
PRUHONICE	103.43	320.7								18	16 PP
COLLMBERG	104.11	322.3	14	1	1					18	23 PP
LJUBLJANA	104.22	316.8								18	19 PP
KASPERSKE H.	104.23	320.0								18	29 PP

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1961

PAGE 763

MESSINA	104.76	308.7									18 25
TRIESTE	104.83	316.5				24 43	5				
ROME	106.46	312.8				24 53	8				19 5 PP
STUTTGART	107.07	320.4	14 15	777							18 43 PP
STRASBOURG	108.08	320.5				24 52	0				18 53 PP
DE BILT	108.54	324.5				25 0	6				28 22 PS
DURHAM	111.18	328.9	14 41	-228							18 41
KEW	111.94	325.3									19 3 PP
EUREKA	116.11	47.0	18 19	-19							
TOLEDO	119.02	314.7									36 17 SS
FLAMING GRGE	120.22	43.3	18 48	2							
WICHITA MTS.	130.68	45.1	19 7	1							21 21 PP
FAYETTEVILLE	132.92	40.9				25 54	-21				23 50 PKS
PALISADES	139.36	18.7									22 59 PKS
HUANCAYO	157.20	130.8	20 18	27							
LA PAZ	158.27	152.6									24 10 PP
CHINCHINA	162.19	82.7	20 0	4							24 30 PP
BOGOTA	163.76	83.3									31 31 SKKS
FUQUENE	163.99	80.1	20 9	11							24 43 PP

AUGUST 11 23.H 11.M 46.S EPICENTRE 41.66 142.18 DEPTH= 71.KM

A=-0.59190 B= 0.45953 C= 0.66218 D= 0.6132 E= 0.7899
G=-0.5230 H= 0.4061 K=-0.7493 HT= -2.3

DEPTH OF FOCUS= 0.006R

SE= 3.21

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C S	M	S	O-C S	M	S	M	S
URAKAWA	0.67	42.3	0	10	-6	0	22	-6				
HIROO	1.06	53.6	0	20	0	0	36	1				
TOMAKOMAI	1.07	335.7	0	20	0	0	38	3				
HAKODATE	1.07	278.6	0	19K	-1	0	34	-1				
MURORAN	1.11	307.0	0	19K	-1	0	33	-3				
HATINOHE	1.23	203.6	0	21	-1	0	35	-4				
MORI	1.28	290.8	0	23K	0	0	37	-3				
ADMORI	1.34	232.0	0	20	-4	0	38	-3				
OBHIRO	1.47	30.7	0	28	3	0	49	5				
SAPPORO	1.54	336.8	0	26K	0	0	45	-1				
SUTTSU	1.84	309.0	0	31	1	0	52	-1				
MIYAKO	2.01	184.5	0	30	-2	0	54	-3				
MORIOKA	2.10	201.7	0	33	-1	0	55	-4				
KUSIRO	2.11	50.6	0	33	-1	1	0	1				
ASAHI GAWA	2.13	3.8	0	39	5	1	2	2				
RUMOE	2.33	350.1	0	38	1	1	5	0				
AKITA	2.50	219.9	0	40	1	1	10	1				
MIZUSAWA	2.65	197.9	0	44	3	1	16	3				
ABASHIRI	2.82	32.5	0	48	4							
NEMURO	3.02	55.3	0	45	-2	1	19	-3				
SAKATA	3.29	213.8	0	51	1							
ISINOMAKI	3.29	191.8	0	48	-2	1	29	0				
SENDAI	3.52	196.6	0	53	0	1	41	7				
YAMAGATA	3.68	203.0	0	55	-1	1	37	-1				
HUKUSIMA	4.12	199.2				2	5	15				
NIIGATA	4.44	213.8				1	54	-4				
AIKAWA	4.73	221.0	1	42	32							
SHIRAKAWA	4.78	199.1	1	10	-1							
ONAHAMA	4.80	192.3	1	24	13							
Y.-SAKHLINSK	5.38	4.0	1	19	0	2	16	-4				
UTUNOMIYA	5.41	200.1				2	28	7			1	44
MITO	5.44	194.7	1	19	-1	2	32	10				
KAKIOKA	5.64	196.7	1	15	-8	2	30	3				
TUKUBASAN	5.67	197.3	1	20	-3						2	34
MAEBASI	5.78	205.7	1	43	18							
NAGANO	5.86	213.1	1	30	4							
WAZIMA	5.91	225.4	1	32	6							
KUMAGAYA	5.92	202.5	1	29	2	2	32	-2				
MATUSIRO	5.97	212.4	1	26	-1	2	38	3				
TYOSI	6.02	190.3	1	45	17							
OIWAKE	6.02	209.1	1	37	9	2	43	6				
TITIBU	6.16	204.1				2	45	7				
TOKYO C.M.O.	6.26	198.4				2	45	2				
YOKOHAMA	6.53	198.5				2	56	6				
KOHU	6.61	206.5	1	48	12							

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1961										PAGE 765	
ONAHAMA	6.91	212.1	1 35	-6	2 53	-6					
NIIGATA	6.99	226.7	1 43	1	3 1	0				3 54	
SHIRAKAWA	7.05	216.6	1 43	0	2 56	-7					
AIKAWA	7.36	230.8	1 48	1							
MITO	7.58	212.3	1 48K	-2	3 8	-8					
UTUNOMIYA	7.68	216.0	1 49	-3	3 9	-9					
KAKIOKA	7.82	213.2	1 50	-4	3 10	-12					
TUKUBASAN	7.86	213.6	1 51	-3	3 14	-9					
TAKADA	8.02	226.1	1 57	1							
TYOSI	8.02	208.0	1 53	-3	3 18	-9					
MAEBASI	8.16	219.3	1 58	0	3 27	-3					
KUMAGAYA	8.23	216.9	1 57K	-2	3 27	-5					
NAGANO	8.37	224.3	2 3	2							
HONGO	8.44	213.4	1 58	-4						3 29	
OIWAKE	8.47	221.4	2 5	2	3 42	4					
MATUSIRO	8.47	223.7	2 2A	-1	3 35	-3					
TOKYO C.M.O.	8.47	213.4			3 30	-8				2 20	
TITIBU	8.50	217.6	2 5	2	3 32	-7					
WAZIMA	8.58	232.8	2 4	0							
YOKOHAMA	8.73	213.1	2 19	13	3 37	-7					
TOYAMA	8.88	228.5	2 7	-1							
KOHU	9.00	218.8	2 12	2	3 48	-3					
HUNATU	9.04	217.3	2 24	13	3 49	-3					
AJIRO	9.28	214.4	2 11	-3	3 48	-10					
MISIMA	9.28	215.3	2 13	-1	3 47	-11					
OSIMA	9.41	212.3	2 11	-5	3 51	-10					
IIDA	9.46	221.3	2 10	-6							
SHIZUOKA	9.65	217.1			4 2	-5					
VLADIVOSTOK	9.95	275.8	2 23	0	4 17	3					
OMAESAKI	10.04	216.7								2 50	
NAGOYA	10.17	223.3	2 24	-2	4 16	-4					
TSURUGA	10.27	228.2	2 27	0							
HIKONE	10.46	226.2	2 30	0	4 23	-4					
SEVERO-KUR.	10.64	39.5	2 33	1						4 46	
KAMEYAMA	10.67	224.0	2 46	13							
OKHA	10.78	351.9	2 35	1						4 43	
KYOTO	10.93	227.1	2 36	0	4 31	-7					
TOYOOKA	11.07	231.8	2 38	0	4 35	-7					
ABUYAMA	11.13	227.1	2 38	-1							
NARA	11.13	225.6	2 46	7							
OSAKA	11.32	226.5	2 37	-5							
TAKAMATU	12.37	229.9	2 54	-2							
PETROPAVLOVK	13.40	36.5	3 10	1						5 50	
OOITA	14.56	233.0	3 24	-1							
CHANGCHUN	14.70	280.5	3 24A	-2							
KUMAMOTO	15.39	234.0	3 43	8							
UNZENDAKE	15.72	234.8								3 1	
MAGADAN	16.98	9.3	3 53	-3						7 15	SS
YAKUSIMA	17.25	228.8	4 1	2							
YAKUTSK	21.30	339.4	4 41	-4	8 29	-5					
PEKING	22.10	272.5	4 52A	-1	8 49	1					
ZO-SE	22.62	246.6	4 58	0	9 11	13					
NANKING	23.69	251.6	5 8	0	9 26	9					
PAOTOW	26.43	277.1	5 33A	-1	10 11	8					
ULAN-BATOR	27.33	294.0	5 40	-2	10 16	-1					
SIAN	29.67	265.4	6 4A	1	11 10	15					
LANCHOW	32.61	272.1	6 30A	1	11 39	-2					
HONG KONG	33.14	241.7	6 36	2	12 9	20				6 53	
CHENG TU	35.05	263.5	6 50A	0							
MANILA	35.08	224.1	6 56	5	12 15	-4					
KUNMING	39.14	257.0	7 25A	0	13 30	9					
COLLEGE	42.48	35.5	7 53	1							
MIATRANG	43.79	236.7	8 5	2	14 35	5					
THACKLAI	43.96	265.4	8 14	10							
SIMPALATNSK	44.08	303.4	8 5	0							
SHILLONG	46.77	266.2	8 25K	-2							
CHITTAGONG	48.72	262.8	8 39	-3	15 39	-1					
CHATRA	49.50	270.9	8 48A	0							
FRUNSE	50.45	295.7	8 55	0							
SVERDLOVSK	52.92	316.7	9 12	-2							
DEHRA DUN	54.22	280.2	9 23	0							
TASHKENT	54.67	296.3	9 26	0	17 1	-1					
KHOROZ	55.06	291.2	9 29	0							
PORT BLAIR	55.11	251.9								11 13	
RESOLUTE	56.12	16.2	9 36	-1							
LAHORE	56.22	283.6	9 38	0							
WARSAK DAM	56.86	287.6	9 41	-1							
APATITY	58.64	335.4	9 52	-3							

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1961

PAGE 766

THULE	59.01	8.8	9 55	-2		
VICTORIA	60.18	50.0	10 6K	1		
SODANKYLA	60.77	337.1	10 8A	-1		
PENTICTON	61.85	47.7	10 15	-2		
KIRUNA	62.13	339.4	10 17A	-2		10 42
QUETTA	62.23	286.5	10 18A	-1		
CORVALLIS	62.40	53.7	10 21	1		
KAJAANI	62.68	334.0	10 21A	-1		
POONA	64.27	271.9	10 32A	-1		
MOSCOW	64.40	323.3	10 32	-1	19 2	-5
PULKOVO	64.72	329.6	10 35	0		
SHASTA	65.18	56.8	10 40	2		
HUNGRY HORSE	65.41	46.2	10 40	0		
MINERAL	65.87	56.8	10 44K	1		
NURMIJARVI	66.21	332.3	10 43A	-2	19 25	-4
BERKELEY	66.94	59.3	11 3A	13		
RENO	67.45	56.6	10 18	-35		
SKALSTUGAN	67.56	339.3	10 52A	-2		11 17
LICK	67.65	59.4	10 55	1		
BOZEMAN	68.68	47.1	12 2	61		
UPPSALA	69.02	334.7	11 1A	-2		
FRESNO	69.16	58.9	11 17	13		
TEHERAN	69.39	299.9	11 6	1		
TIFLIS	69.64	308.3	11 7A	1	20 12	2
EUREKA	69.82	54.6	10 57	-11		11 56
GORIS	70.16	305.7	11 10A	0	20 19	3
PASADENA	71.84	60.2	11 20	0		15 23 PPP
BERGEN	72.02	340.5	11 20	-1		
GOTEBORG	72.49	335.9	11 22A	-2		
FLAMING GRGE	72.70	50.0	11 26	1		
BOULDER CITY	72.76	56.8	11 27	2		
REYKJAVIK	72.84	354.2	11 27A	1		
SIMFEROPOL	73.28	316.3	11 28A	0	20 52	0
RAPID CITY	73.88	44.3	11 34	2		
COPENHAGEN	74.03	334.5	11 32A	-1		11 56 PCP
GLEN CANYON	74.07	54.3	11 34	1		
KISHINEV	74.38	320.6	11 35	0		
LWOW	74.42	325.0	11 35	0	21 5	0
IASI	74.83	321.4	11 37	0		
KRAKOW	75.92	327.3	11 43	0		12 2 PCP
CHORZOW	76.10	327.9	11 43	-1		11 56 PCP
RACIBORZ	76.58	328.2	11 47	0	11 52	11 59 PCP
COLLMBERG	77.49	331.7	11 52A	0		12 4 PCP
BUCHAREST	77.59	320.3	11 51	-2		
HALLE	77.69	332.4	11 53	0	21 40	-1
TUCSON	77.71	57.4	11 56	3		
ADELAIDE	77.75	185.7	11 55K	1		
CANBERRA	77.92	177.1	11 57A	2		
PRUHONICE	78.03	330.1	11 55A	0		
JENA	78.29	332.2	11 56	-1		13 36
MUNSTER	78.70	335.0	11 59	0		
ISTANBUL UN.	78.70	316.3	11 59	0		
DURHAM	78.72	341.3	11 57K	-2		12 15
VIENNA-H.	78.76	328.1	12 1A	2		
KASPERSKÉ H.	79.09	330.1	12 2A	1		14 28
MUNDARING	79.20	205.0	12 3	1		
BENSBERG	79.71	334.7	12 4A	0		
SOFIA	80.20	320.7	13 7	60		13 32
HEIDELBERG	80.56	333.0	12 9	0		
STUTTGART	80.92	332.4	12 11A	0		
TUBINGEN	81.19	332.4	12 12	0		
LJUBLJANA	81.29	327.9	12 13A	0		12 46
KEW	81.42	339.2	12 14	1		12 39
EBINGEN	81.53	332.2	12 14	0		
EBINGEN	81.53	332.2	11 14	-60		
STRASBOURG	81.59	333.1	12 15	1		12 26 PCP
RAVENSBURG	81.65	331.7	12 14	-1		
TRIESTE	81.92	328.1	12 16	0		
BASLE	82.56	332.7	12 20A	1		
PARIS	83.04	336.4	12 23	1		12 34 PCP
WICHITA MTS.	83.11	48.3	12 23	1		15 43 PP
ATHENS	83.68	317.5	12 23	-2		
GARCHY	84.23	335.3	12 27	-1		12 38 PCP
FAYETTEVILLE	84.42	44.6	12 29	0		
FLORENCE X.	84.46	328.6	12 29	0		
SHAWINIGAN	84.68	25.4	12 33A	3		
OTTAWA	84.73	27.8	12 30	0		
TARRALEAH	84.83	179.3	12 34	3		

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1961

PAGE 767

KARAPIRO	84.98	156.6	12 35	3	
MOORLANDS	84.98	178.7	12 34K	2	
FORT NELSON	85.47	178.6	12 36K	2	12 50
CLERMONT-FD.	85.57	334.6	12 36	2	
ISOLA	85.66	331.4	12 35	0	
HELWAN	85.69	307.4	12 36	1	
BAGNERES	88.92	335.4	12 53	2	
CARACAS	119.16	37.1	18 40	-4	
BROKEN HILL	119.43	277.7	18 48	4	
SCOTT BASE	121.20	174.8	18 54	6	
BULAWAYO	122.96	272.5	18 53A	2	
MAWSON	126.18	208.1	18 59A	1	19 12
SOUTH POLE	132.72	180.0	19 11	1	

AUGUST 13 6.H 0.M 58.S EPICENTRE 24.44 121.84 DEPTH= 0.KM

A=-0.48080 B= 0.77429 C= 0.41148 D= 0.8495 E= 0.5275
G=-0.2171 H= 0.3496 K=-0.9114 HT= 3.5

SE= 2.27

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C S	M	S	O-C S	M	S	M	S
HWALIEN	0.51	203.0	0	13K	-1	0	18	-6				
TAIPEI	0.65	333.7	0	17A	1	0	28	1				
HSINCHU	0.87	294.4	0	17	-2	0	29	-4				
TAICHUNG	1.10	254.8	0	23	0	0	39	0				
YUSHAN	1.26	220.5	0	22	-3	0	47	4				
ALISHAN	1.32	226.2	0	24	-2	0	31	-13				
HSINKONG	1.40	197.9	0	28	1	0	47	1				
TAITUNG	1.80	200.7	0	30	-3	0	57	0				
TAINAN	2.06	226.2	0	38	2	0	46	-17				
TAMU	2.25	202.7	0	43	4	1	15	7				
PENGHU	2.28	247.0	0	38	-2	0	53	-16				
HENGCHUN	2.63	202.6	0	48K	3	1	24	6				
ZO-SE	6.66	355.1	1	38	-4							
HONG KONG	7.36	254.7	1	49	-2	3	31	14				
CANTON	7.90	261.9	1	57	-2	3	28	-2				
NANKING	8.05	341.1	1	57	-4	3	25	-9				
BAGUIO CITY	8.07	188.6	2	1	0	3	27	-7				
MANILA	9.75	184.3	2	25	0	4	22	6				
SIAN	14.90	313.9	3	37	3	6	35	14				
PEKING	16.26	344.3	3	52	1	7	3	11				
CHENG TU	16.97	295.3	3	59	-1	7	20	11				
KUNMING	17.36	276.2	4	7A	2	7	31	13				
MATUSIRO	18.53	45.6	4	22	2	7	51	7				
PAOTOW	18.89	331.2	4	26K	2	8	8	15				
CHANGCHUN	19.55	7.5	4	33K	1	8	15	8				
VLADIVOSTOK	20.39	21.5	4	43	2							
GUAM	24.22	112.6	5	19	0						6 26	
TOCKLAI	24.50	281.2										
ULAN-BATOR	26.26	336.9	5	40	1	10	7	-3				
SHILLONG	27.16	278.7	5	47A	0	10	27	2				
LHASA	27.87	287.5	5	56	3							
Y.-SAKHLINSK	28.03	31.3	5	57	2						12 44 SSS	
IRKUTSK	30.83	338.8	6	21	1	11	25	2				
LEMBANG	34.03	205.8	6	45	-3							
DEHRA DUN	39.14	288.6									21 25	
NEW DELHI	39.99	285.9	7	37K	-1							
PORT MORESBY	41.73	140.7	7	52	0	13	54	-16	8 6			
FRUNSE	42.77	307.3	8	4	3	14	28	2				
KHOROG	44.57	299.3	8	19	3							
TASHKENT	46.53	304.5	8	33	2							
TIKSI	47.39	3.0	8	35	-3							
QUETTA	48.72	289.5	8	48	0	15	52	1				
CHARTERS TS.	50.25	149.6	8	58	-2							
SVERDLOVSK	54.19	323.6	9	28	-2							
ASHKABAD	55.00	300.3	9	36	0							
ADELAIDE	61.22	164.2	10	16K	-3						11 4 PCP	
KHEYS	61.84	350.4	10	20	-3						12 42 PP	
CANBERRA	64.77	155.6	10	44	1							
TIFLIS	64.80	306.3	10	45	2							
MELBOURNE	65.65	160.0	10	53	5							
MOSCOW	66.96	322.3	10	54	-3							
APATITY	67.07	335.4	10	55	-2							
COLLEGE	68.30	27.4	11	3	-2							
SODANKYLA	69.67	335.7	11	11	-3							

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1961

PAGE 768

KAJAANI	70.08	332.2	11 17	1					
TARRALEAH	70.20	160.8	11 32	15					
MOORLANDS	70.55	160.4	11 33K	14					
FORT NELSON	71.04	160.5	11 25K	3				11 36	
SIMFEROPOL	71.61	311.6	11 30	5	20 49	5			
KIRUNA	71.80	336.9	11 24	-2					
NURMIJARVI	72.47	329.0	11 26	-4					
UPPSALA	75.98	329.7	11 53	2					
SKALSTUGAN	76.61	334.3	11 59	5					
HELWAN	78.65	297.6	12 6	1					
NIEDZIKA	78.89	319.3	12 6	-1				12 34	
KARAPIRO	79.93	139.7	12 11	-1					
CHATEAU	80.78	140.6	12 16	-1					
COLLMBERG	82.21	323.2	12 28	4				13 31	
KASPERKE H.	82.95	321.1	12 29	1					
VICTORIA	86.92	37.2	12 47	-1					
PENTICTON	88.50	35.1	12 54	-2					
CORVALLIS	89.20	40.4	12 58	-1					
BANFF	89.41	32.0	12 59	-1					
SHASTA	91.95	43.2	13 11	-1					
HUNGRY HORSE	91.98	33.5	13 11	-1					
MINERAL	92.64	43.2	13 14K	-1					
RENO	94.23	43.0	13 50	28					
BUTTE	94.27	34.6	13 22	0					
BOZEMAN	95.29	34.2	13 27	0					
EUREKA	96.62	41.3	13 31	-2				17 33	PP
WOODY	97.12	45.7	13 33	-2					
FLAMING GRGE	99.43	36.8	13 44	-2					
SOUTH POLE	114.30	180.0	18 47	5					
TRINIDAD	144.98	5.6	19 38	-1					
HUANCAYO	159.59	55.9	20 41	41					

AUGUST 14 18.H 50.M 51.S EPICENTRE -24.29-175.77 DEPTH= 21.KM

A=-0.91001 B=-0.06733 C=-0.40909 D=-0.0738 E= 0.9973
G= 0.4080 H= 0.0302 K=-0.9125 HT= 3.6

SE= 2.93

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
RAOUL ISLAND	5.30	200.8	1	19	-1	2	19	-3				
SUVA	8.16	317.4										
ONERAHI	14.26	214.4	3	33	10							
KARAPIRO	15.49	206.6	3	33	-6							
TUAI	15.66	200.9	3	41	0	6	22	-13				
PORT VILA	16.22	290.7	3	52A	4							
NOUMEA	16.46	273.3	3	55	4	7	12	19				
CHATEAU	16.58	204.3	3	52	-1	6	54	-2				
TONGARIRO	16.59	204.3	3	52	-1						6 49	
WELLINGTON	18.69	202.7	4	15	-4	7	29	-15				
KOUMAC	18.81	277.4	4	23K	2	7	49	2				
COBB RIVER	19.31	207.1				7	43	-15				
KAIMATA	21.05	207.2	4	55	10	8	18	-16				
GEBBIES PASS	21.57	203.3	4	51	1	8	29	-14				
HONIARA	27.47	298.4	5	44	-3							
BRISBANE	28.44	257.0	5	53	-2	10	31	-9				
RIVERVIEW	30.33	244.1	6	11	-1						7 10	PP
CANBERRA	32.33	241.9	6	29	-1						7 43	PP
CHARTERS TS.	35.33	269.2	6	55	-1	12	27	-1				
MOORLANDS	35.49	230.2	6	57K	0				7 10			
TARRALEAH	35.96	230.7	7	3K	2							
MELBOURNE	35.97	238.5	7	1	0				7 15			
PORT MORESBY	38.31	286.3	7	20	-1						9 35	
ADELAIDE	40.66	244.0	7	39A	-1							
HAWAII V.08.	47.83	26.5	8	37	-1	15	46	13				
KIPAPA	48.61	22.2	8	43	-1							
CAPE HALLETT	48.69	185.7	8	47A	2	15	54	9				
DARWIN	51.78	273.2	9	6	-2							
SCOTT BASE	54.26	184.5	9	28A	1				9 46		11 46	PP
MUNDARING	59.62	246.0	10	4	-1							
MIRNY	68.47	205.5	11	2	-1	20	6	4				
MANILA	72.79	295.3	11	30	1						22 30	
TUKUBASAN	73.20	324.0	11	30	-1	20	57	0			21 45	SCS
MATUSIRO	74.47	323.0	11	37A	-2	21	11	0			26 2	SS
ABUYAMA	74.77	320.2	11	40A	0							

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1961

PAGE 769

MAWSON	78.70	199.5	12 4K	2				12 43
BRANNER	79.41	40.7	12 7	1				
BERKELEY	79.67	40.3	12 8K	0	22 14	7		27 18 SS
LICK	79.68	41.0	12 8K	0				
PASADENA	79.81	45.4	12 7	-1	22 14	5		27 15 SS
UKIAH	79.95	38.8	12 9	0				
PETROPVLOVK	80.14	344.6	12 9	-1	22 13	1		
Y. -SAKHLINSK	80.26	332.6	12 11	0	22 18	4		
FRESNO	80.43	42.4	12 12K	0				
SHASTA	81.48	38.1	11 59K	-18				
ZO-SE	81.69	309.4	12 18A	0	22 29	0		
MINERAL	81.70	38.8						
RENO	82.21	40.3	11 45K	-36				
HONG KONG	82.31	298.5	12 23A	1	22 37	2		
VLADIVOSTOK	82.55	324.2	12 24	1				
BOULDER CITY	83.09	45.6	12 27	1				
CORVALLIS	83.62	34.8	12 31	3				
TUCSON	83.67	50.6	12 30	2				
NANKING	83.93	309.0	12 30A	0	22 53	2		
VICTORIA	86.27	31.8	12 40	-1				
TACUBAYA	86.27	66.9	12 40	-1				13 9
CHANGCHUN	86.64	321.6	12 33A	-10				
MEDAN	87.41	275.1	12 47A	0				16 25
SALT LAKE C.	87.79	43.1	12 50	1				
PENTICTON	88.67	32.9	12 52K	-1				21 48
FLAMING GRGE	89.42	44.0	12 50	-7				
PEKING	90.02	314.6	13 0A	1	23 58	9		23 28 SKS
BUTTE	90.38	38.5	13 1	0				
HUNGRY HORSE	90.95	36.0	13 3	-1				
BOZEMAN	91.05	39.4	13 5	1				
COLLEGE	91.47	11.5	13 5	-1	24 2	0		
BANFF	91.87	33.1	13 7	-1				
LARAMIE	92.07	45.2	13 16	7				
SIAN	92.15	306.7	13 11A	2	24 18	10		23 43 SKS
KUNMING	92.88	296.1	13 15A	2	24 21	7		23 46 SKS
WICHITA MTS.	93.73	53.6	13 16K	-1	23 51	-31		17 6 PP
CHENG TU	94.25	301.6	13 21	2	24 34	8		23 52 SKS
PAOTOW	94.35	312.7	12 41	-38				
RAPID CITY	94.97	43.6	13 22	0				
LANCHOW	96.68	306.4	13 32	2	24 59	55		
FAYETTEVILLE	97.57	53.9	13 33K	-1				
SHILLONG	102.10	292.6	13 54	0				
LHASA	104.21	296.3	14 11	7				
PALISADES	114.16	54.3						
NEW DELHI	115.45	291.4						18 40
KHEYS	119.47	351.3						20 34 PP
TASHKENT	123.99	304.5						20 40 PP
STALINABAD	124.16	301.2						19 0 PCP
QUETTA	124.53	290.9	19 1	3				
SVERDLOVSK	128.27	324.3	19 4	-1				
BULAWAYO	129.86	210.3	19 11	3				
APATI TY	133.13	345.1						
TROMSOE	133.81	352.9	19 15	-1				
SODANKYLA	134.72	348.0	19 11	-6				
BROKEN HILL	134.80	214.1	19 20	2				
KI RUNA	135.32	351.3	19 17	-2				22 52 PKS
MAKHACH-KALA	139.95	308.6	19 34	7				
MOSCOW	140.20	330.9	19 34	7				
SKALSTUGAN	140.36	354.4	19 24	-4				
NURMI JARVI	141.13	344.0	19 23	-6				
GORIS	141.54	303.5	18 34	-56				
TIFLIS	142.20	307.4	19 29	-2				
UPPSALA	143.25	348.7	19 30	-3				
LWIRO	144.42	225.6	19 37K	2				
SOTCHI	145.18	312.4	19 36	0				
GOTEBORG	146.16	352.5	19 39	1				
COPENHAGEN	148.07	351.2	19 44	3				
SIMFEROPOL	148.19	317.8	19 46	5				
DURHAM	149.25	6.6	19 49K	6				20 4 PKP2
KISHINEV	150.00	325.3	19 53	9				
LWOW	150.20	333.8						
KSARA	150.85	296.3	19 56K	11				23 36 PP
WITTEVEEN	151.45	356.9	19 57	11				
KRAKOW	151.53	338.5	19 48	2				23 31 PKS
VRANCIOAIA	151.85	325.5	19 57	10				20 2 PKP2
RACIBORZ	152.05	340.6	19 49	2				20 2 PKP2
HALLE	152.19	349.6						
COLLMBERG	152.20	348.2						

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1961								PAGE 770	
MUNSTER	152.24	355.5							
KEW	152.64	6.2	19	56	8				
JENA	152.81	349.8	19	53	5			23	45 PP
PRUHONICE	153.12	345.2	19	57	8			23	39 PP
BENSBERG	153.28	355.9							
ISTANBUL KA.	153.36	314.9	19	53	4			23	55 PP
BRATISLAVA	154.08	340.1	19	56	6			20	5 PKP2
KASPERSKE H.	154.14	345.8	19	50	0			23	45 PP
VIENNA-H.	154.23	341.1	19	51	1			23	56 PP
STUTT GART	155.25	352.0	19	52	1			20	22
HELWAN	155.27	288.9							
FOLINIERE	155.29	7.5	20	18	27				
PARIS	155.49	2.8	19	11	-41				
STRASBOURG	155.60	354.3	20	21	29				
BANGUI	155.83	217.2	19	55	3			20	9 SPKP
LJUBLJANA	156.76	341.6	19	55	2			20	46
BESANCON	157.05	356.9	20	9	15				
TRIESTE	157.34	342.5	19	55	1			20	27 PKP2
FLORENCE X.	159.73	345.2	20	13	16				
MONACO	160.43	353.1							
BAGNERES	160.97	9.2	19	55	-3			20	16
ROME	161.15	340.6	20	12	14			24	43 PP
TOLEDO	162.96	22.2	19	56	-4			24	31 PP
GRANADA	165.51	25.8	21	8A	65			24	56 PP

AUGUST 14 22.H 5.M 6.S EPICENTRE 31.59 131.44 DEPTH= 70.KM

A=-0.56485 B= 0.63975 C= 0.52121 D= 0.7496 E= 0.6619
G=-0.3450 H= 0.3907 K=-0.8534 HT= 1.3

DEPTH OF FOCUS= 0.006R

SE= 4.36

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
MIYAZAKI	0.33	356.8	0	7K	-7	0	14	-9				
KAGOSIMA	0.76	269.1	0	11A	-6	0	31	1				
ASOSAN	1.35	346.6	0	22	-2	0	42	0				
KUMAMOTO	1.38	333.1	0	23A	-2	0	44	1				
YAKUSIMA	1.39	215.8	0	23	-2	0	43	0				
UNZENDAKE	1.52	318.8	0	26A	-1	0	48	2				
OOITA	1.65	5.2	0	25A	-3	0	44	-5				
NAGASAKI	1.75	311.1	0	28A	-2	0	54	3				
SIMIDU	1.76	47.0	0	29	-1	0	41	-11				
UWAZIMA	1.89	29.5	0	26	-5							
SAGA	1.92	330.1	0	31A	-1	0	59	4				
HUKUOKA	2.18	336.0	0	34A	-1	1	4	2				
SIMONOSEKI	2.40	349.8	0	34	-4	1	4	-3				
TOMIE	2.49	295.2	0	39	-1	1	25	16				
MATUYAMA	2.52	26.3	0	39	-1	1	14	4				
KOTI	2.64	41.4	0	43	1	1	24	11				
HIROSIMA	2.90	16.4	0	51	6	1	25	5				
ITUHARA	3.18	325.7	0	47	-2	1	27	0				
TAKAMATU	3.50	38.1	0	53	-1	1	41	7				
OKAYAMA	3.72	33.3	0	49	-8	1	29	-11				
SUMOTO	4.01	45.8	0	54	-7	1	50	3				
MATSUE	4.09	19.0	1	10	8	2	22	33				
WAKAYAMA	4.10	48.9									1	34
YONAGO	4.15	22.1	1	2	-1	2	2	11				
TOTTORI	4.53	29.5	1	6	-2	2	10	10				
OSAKA	4.59	47.2	1	14	5	2	28	26				
ABUYAMA	4.76	45.5	1	4A	-7							
NARA	4.80	48.9	1	22	10							
TOYOOKA	4.84	34.7	1	11	-1	2	19	11				
SAIGO	4.86	18.3	1	26	13	2	23	15				
KYOTO	4.96	45.2	1	4	-10	2	47	36				
KAMEYAMA	5.32	51.0	1	18	-1	2	21	1				
HIKONE	5.45	46.3	1	15	-6	2	58	35				
TSURUGA	5.60	42.4	1	22	-1							
NAGOYA	5.84	50.8	1	20	-6	2	22	-11				
GIHU	5.85	48.0	1	21	-5	2	23	-10				
HUKUI	5.97	40.5	1	27	-1						2	56
OMAE SAKI	6.43	60.3	1	41	6							
IIDA	6.62	51.9	1	34	-3	3	34	42				
TAKAYAMA	6.64	45.1	1	25	-12							

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1961		PAGE 771						
SHIZUOKA	6.73	58.1						2 35
TOYAMA	6.99	41.5	2 3	21	3 8	7		
MATUMOTO	7.15	47.6	1 42	-2				
KOHU	7.20	53.6	1 48	3	3 4	-2		
MISIMA	7.20	58.7	1 46	1				
HUNATU	7.26	55.5	1 46	0	3 7	-1		
AJIRO	7.28	59.6	1 39	-7				
MATUSIRO	7.48	46.8	1 41K	-8	3 11	-2		4 19
NAGANO	7.56	46.0	1 57	7				4 4
OIWAKE	7.57	49.4	1 47	-3				3 53
TITIBU	7.72	53.4	2 8	16				
TAKADA	7.87	43.8	2 7	13				
MAEBASI	7.95	50.8	1 44	-11				4 20
KUMAGAYA	8.02	53.3	2 12	16				3 58
TUKUBASAN	8.55	55.0	1 56	-8				5 10
UTUNOMIYA	8.57	52.4	2 6	2				
KAKIOKA	8.61	55.1	1 45	-20				
ZO-SE	8.79	269.5	2 6A	-1				
MI TO	8.89	55.0	2 3	-5				
NIIGATA	8.89	42.6	2 17	9	4 55	67		
ONAHAMA	9.48	53.1	2 13	-3				
HUKUSIMA	9.64	47.9	2 19	0				
AKITA	10.74	38.5	2 14	-20				
NANKING	10.78	275.8	2 35A	1	4 47	13		
MIZUSAWA	10.91	43.7	2 42	6				
VLADIVOSTOK	11.52	1.7	2 41	-3	5 2	10		
MORI	12.78	32.3						3 7
CHANGCHUN	13.15	340.1	3 5A	-1	5 45	14		
PEKING	14.97	308.5	3 29A	0	6 27	13		
Y.-SAKHLINSK	17.68	26.1	3 56	-7	7 10	-5		
HONG KONG	17.94	243.2	4 4	-3	7 9	-12		
CANTON	18.16	246.7	3 10	-59				
SIAN	19.09	284.0	4 20A	0	8 11	24		
UGLEGORSK	19.23	21.6			7 48	-2		
MANILA	19.32	211.7	4 28	6	8 8	16		
PAOTOW	19.46	303.4	4 24	0	8 15	21		
LANCHOW	23.33	288.5	5 4A	1	9 20	13		
CHENG TU	23.48	275.0	5 5	1	9 26	17		
KUNMING	26.02	262.9	5 31	2	10 11	19		
KABANSK	27.33	325.7	5 43	2				
SHILLONG	35.13	270.3	6 47A	-2				
SEMI PALATNSK	42.03	311.9	7 45	-1				
PORT MORESBY	43.44	157.1	7 57	-1				
DEHRA DUN	45.42	283.0						25 31
FRUNSE	45.84	300.9	8 18	1				
NEW DELHI	46.63	281.0	8 23K	0				15 29
WARSAK DAM	49.78	289.7	8 50	2				
TASHKENT	49.98	299.6	8 49	0				
SVERDLOVSK	53.87	320.0	9 17	-2				
QUETTA	54.62	286.6	9 24A	0				
KHEYS	56.35	349.1			17 19	-1		
COLLEGE	58.00	29.8	9 46	-2				10 18
APATITY	64.17	335.0	10 38	9				
MOSCOW	66.57	322.0	10 43	-2				
SODANKYLA	66.66	336.0	10 43	-3				
GORIS	67.27	303.3	10 51A	1				
TIFLIS	67.48	306.0	10 51	0				
KIRUNA	68.53	337.6	11 3	6	20 3	10		
RESOLUTE	69.77	11.8	11 4	-1				
NURMIJARVI	70.67	329.9	11 9	-2				
SKALSTUGAN	73.73	336.0	11 35	6				
UPPSALA	73.98	331.3	11 37	7				
GOTEBORG	77.62	331.4	11 59	8				
PENTICTON	77.71	39.3	11 50	-1				
ISTANBUL KA.	78.30	311.0	11 52	-2				
KARAPIRO	80.47	146.1	12 7	1				
SHASTA	80.92	47.7	12 9	0				
HUNGRY HORSE	81.26	37.9	12 11	1				
COLLMBERG	81.34	326.1	12 11K	0				12 20 PCP
PRUHONICE	81.44	324.4	12 15	4				
CHATEAU	81.48	146.9	12 20	9				
MINERAL	81.61	47.6	12 3	-9				
JENA	82.26	326.4	12 15	-1				12 42
KASPERSKE H.	82.47	324.1	12 16	-1				
BUTTE	83.50	39.1	12 21	-1				
LJUBLJANA	83.98	321.4	12 24	0				
BOZEMAN	84.54	38.7	12 27	0				
STUTTGART	84.82	325.8	12 28	0				
STRASBOURG	85.67	326.3			22 57	-1		

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1961

PAGE 772

WOODY	86.06	50.2	12 34	-1
ROME	87.81	319.2		
FLAMING GRGE	88.57	41.4	12 48	1
RAPID CITY	89.69	36.0	12 53	1
GLEN CANYON	89.88	45.5	13 4	11
GRANADA	99.71	325.1	13 26	-12

22 8

AUGUST 14 23.H 28.M 45.S EPICENTRE -20.36 169.32 DEPTH= 51.KM

A=-0.92204 B= 0.17385 C=-0.34587 D= 0.1853 E= 0.9827
G= 0.3399 H=-0.0641 K=-0.9383 HT= 4.6

DEPTH OF FOCUS= 0.003R

SE= 2.15

	DELTA DEG.	AZ. DEG.	M	P S	O-C S	M	S	O-C S	*PP M S	SUPP. M S
PORT VILA	2.78	339.9	0	45	2	1	21	5		
NOUMEA	3.30	233.7	0	47K	-4					
KOUMAC	4.73	266.7	1	7K	-4	1	58	-7		
SUVA	8.88	77.2	2	12	4					
HONIARA	14.14	318.9	3	21	2					
RAOUL ISLAND	14.57	129.9	3	45	20					
ONERAHI	15.98	164.9	3	48	5					
BRISBANE	16.66	242.0	3	50	-1	6	56	2		
KARAPIRO	18.32	164.2	4	11	-1					11 55
AFIAMALU	19.16	73.4	4	20	-2	7	50	0		
CHATEAU	19.53	165.4	4	26	0	8	25	27		
TUAI	19.58	161.5	4	26	0	8	16	17		
COBB RIVER	20.86	172.7	4	41	1					
RIVERVIEW	20.97	226.5	4	42K	1					
WELLINGTON	21.36	168.7	4	45K	0	8	40	6	5 7	9 0 *SS
CHARTERS TS.	21.64	266.7	4	49	1	8	46	7		
KAIMATA	22.16	175.9	4	55	2					
RABAUL	23.17	311.6	5	3	0					
CANBERRA	23.28	225.9	5	5	1	9	17	8	5 22	6 41
GEBBIES PASS	23.44	173.9	5	6	1					
PORT MORESBY	24.01	293.7	5	12	1	9	35	14		
MELBOURNE	27.37	225.3	5	43	1	10	23	6		
MOORLANDS	28.85	215.3	5	56K	0					9 6 PCP
FORT NELSON	29.10	214.4	5	57K	-1	10	47	2		
TARRALEAH	29.15	216.3	6	0	2					9 7 PCP
ADELAIDE	30.62	235.2	6	12A	0	11	11	2		
DARWIN	37.70	276.1	7	2	-10					14 10
MUNDARING	48.63	244.9	8	40A	-1					
PERTH	48.95	245.0								9 1
CAPE HALLETT	51.97	179.7	9	5K	-1	16	27	3	9 19	11 7 PP
HONOLULU	52.24	39.4	9	8	0	16	35	7		
KIPAPA	52.38	39.4	9	10	1					
HAWAII V.OB.	52.60	43.5	9	11	0	17	19	46		
SCOTT BASE	57.55	180.6	9	45A	-2					10 34 PCP
MANILA	58.82	302.4	9	59	3	17	59	4		
WILKES	59.16	203.7	9	55	-3	17	47	-13	10 19	
BAGUIO CITY	60.22	303.8	10	4	-1	18	16	2		
DJAKARTA	62.10	273.8	10	23	5	18	43	6		
TUKUBASAN	62.70	333.6	10	20	-2	18	46	1	10 45	11 0 PCP
ABUYAMA	63.60	329.3	11	27A	59					
MATUSIRO	63.77	332.4	10	27A	-2	19	1	3		23 4 SS
MIZUSAWA	64.80	336.0	10	38	2					
BYRD STATION	66.83	169.7	10	45	-4					
NHATRANG	67.40	293.3	10	54	2	19	36	-7		
HONG KONG	68.53	305.2	10	59	0	19	59	3		
ZO-SE	68.94	316.8	11	0A	-2	20	1	0		
NANKING	71.12	316.1	11	15A	0	20	28	2		
Y.-SAKHLINSK	71.23	341.1	11	15	-1	20	30	2		
VLADIVOSTOK	71.94	332.1	11	19	-1					
MEDAN	73.20	280.4	11	28A	1					12 35
UGLEGORSK	73.27	341.7	11	27	-1	20	58	7		
PETROPAVLOVK	73.66	353.3	11	29	-1				11 51	16 3 PPP
CHANGCHUN	75.54	328.7	11	38A	-3					
KLYUCHI	76.71	355.2	11	47	-1					
MAWSON	77.43	202.1	11	50A	-2				12 4	13 11
PEKING	77.85	321.1	11	53A	-1	21	47	6		
KUNMING	78.93	302.0	12	1A	1	21	58	5		
SIAN	79.04	312.8	12	1A	1	21	55	1		

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1961

PAGE 773

CHENGTU	80.67	307.5	12 9	0	22 15	4		
LANCHOW	83.52	312.1	12 25A	1	22 45	5		
ARGENTINE I.	85.45	160.1	12 33	0				
PARAISO	85.64	48.8	12 38	4				
STA. CRUZ C.	86.22	48.4	12 39	2				
BRANNER	86.30	47.9	12 40	2				
UKIAH	86.42	46.0	12 39	1				
BERKELEY	86.46	47.5	12 38A	0	22 58	-11	12 54	16 18 PP
LICK	86.64	48.2	12 39A	0				
CONCORD	86.64	47.5	12 41	2				
FRESNO	87.67	49.4	12 45	1				
PASADENA	87.67	52.3	12 43	-1	23 34	14		16 10 PP
SHASTA	87.75	45.0	12 44	-1				
YAKUTSK	87.94	342.5	12 43K	-3				
SHILLONG	87.96	298.1	12 45A	-1	23 26	3		
MINERAL	88.11	45.6	12 46A	0				
RENO	88.94	46.9	12 15	-35				
CORVALLIS	89.08	41.3	12 56	5				
BOULDER CITY	90.93	51.9	13 0	0				
VICTORIA	90.98	37.8	13 0K	0				
COLLEGE	91.09	16.9	12 40	-20	23 21	-31		
EUREKA	91.58	48.3	13 3	0			13 32	16 43 PP
IRKUTSK	91.67	326.1	13 2A	-1	23 52	-5		23 32 SKKS
CHATRA	92.34	297.6						14 8
VISHAKHAPTM	92.44	287.9	13 19	12	24 13	10		17 4 PP
TUCSON	92.49	56.6	13 8	1				
PENTICTON	93.57	38.3	13 11	-1				27 23
GLEN CANYON	93.72	52.0	13 14	2				30 38 PKKP
TIKSI	95.83	348.1					17 37	
HUNGRY HORSE	96.50	40.8	13 25	0				17 21 PP
FLAMING GRGE	96.78	49.0	13 27	1				
BOZEMAN	97.36	44.1	13 31	2				
LARAMIE	99.62	49.6	17 44	245				
DEHRA DUN	101.05	298.3						18 3
NEW DELHI	101.25	296.3	13 47A	0				17 56
BOMBAY	102.24	285.7						24 25
WICHITA MTS.	102.96	57.6	13 55	1	24 22	-6		17 50 PP
FRUNSE	106.91	310.0						18 37 PP
QUETTA	110.31	295.6	18 25	-1				25 36 SKKS
LA PAZ	112.75	118.7	18 35	4			19 21	
KHEYS	113.39	350.4	18 33	1				19 25 PP
CHINCHINA	115.19	94.1	18 38	2	25 24	4		29 24 PS
BOGOTA	116.52	95.1						29 50 PS
SVERDLOVSK	117.02	324.2	18 40	1				29 38 PS
FUQUENE	117.13	94.3						19 49 PP
ASHKABAD	118.51	302.9	18 45	3				20 3 PP
HERMANUS	118.54	208.0						28 48 PKKP
OTTAWA	121.63	48.6	18 49	1				
PALISADES	123.08	53.7						20 36 PP
BREBEUF	123.10	48.4	18 51	0				
SHAWINIGAN	123.60	47.1	18 52	0				
BULAWAYO	124.33	226.1	17 54	-60				
CARACAS	125.12	91.3	18 56	1				20 45 PP
APATITY	125.32	340.9	18 56	1				
SODANKYLA	127.43	342.8	18 56	-3				
TROMSOE	127.56	347.4	18 59	-1				
SAN JUAN	127.87	82.2	19 1	1				
GORIS	127.91	304.7	19 3	3	26 1	0		22 33 PKS
BROKEN HILL	128.26	231.2	18 4	-57				
KIRUNA	128.67	345.5	19 2	0				21 1 PP
TIFLIS	128.86	307.6	19 4	2				21 13 PP
MOSCOW	129.66	326.7	19 4	0				21 16 PP
HALIFAX	130.25	48.3	19 5	0				
TRINIDAD	130.35	93.2	19 6	1				
PULKOVO	131.05	333.9	19 6	0				22 30 PKS
NURMIJARVI	132.79	337.0	19 1	-9			19 23	22 38 PKS
SKALSTUGAN	134.09	345.9	19 5	-7				
LWIRO	135.25	244.5	19 13	-1				
REYKJAVIK	135.61	7.0	19 17K	2				
UPPSALA	135.69	340.0	19 15	0				21 53 PP
SIDA	136.32	4.7	19 19	3				
KSARA	136.78	298.0	19 17	0				21 45 PP
GOTEBORG	139.17	341.6	19 21	0				
WARSAW	139.79	330.0						29 19 SKKS
I STANBUL KA.	140.52	310.5	19 14	-10				22 23 PP
COPENHAGEN	140.69	339.4	19 17	-7				22 21 PP
HELWAN	140.98	292.6	19 21	-4				22 30 PP
BUCHAREST	141.24	316.7						22 5 PP

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1961		PAGE 774										
KRAKOW	141.72	328.0	19 25	-1							23 6	PKS
CHORZOW	142.03	328.9	19 23	-4								
RACIBORZ	142.55	329.2	19 27	0							21 38	
TIMI SOARA	143.58	321.4	19 29	0								
SOFIA	143.81	315.7	19 29	-1							22 46	PP
COLLMBERG	143.97	334.6	19 28A	-2	26 25	-7					23 12	PKS
HALLE	144.23	335.7	19 30	0							23 8	PKS
PRAGUE	144.29	332.1	19 31	1								
PRUHONICE	144.30	331.9	19 30A	0							22 47	PP
BRATISLAVA	144.36	327.6	19 31	0							19 42	PKP2
BELGRADE	144.55	320.6	19 31A	0							24 6	PKS
VIENNA-H.	144.67	328.3	19 31A	0							23 1	PP
JENA	144.82	335.4	19 32	1							22 50	PP
WITTEVEEN	144.93	341.6	19 37	5								
DURHAM	144.96	350.8	19 31A	-1	26 16	-18		20 17			21 40	PP
CHEB	145.16	333.8	19 31	-1							19 58	
KASPERSKE H.	145.36	331.7	19 32A	0							20 29	
MUNSTER	145.37	340.0	19 32	0								
ATHENS	145.47	308.0	19 32A	-1				19 44				
DE BILT	145.99	342.5	19 36A	3							22 59	PP
BENSBERG	146.38	339.5	19 35	1							23 1	PP
LJUBLJANA	147.09	326.9	19 36A	1							22 57	PP
HEIDELBERG	147.14	336.4	19 37	2								
BANGUI	147.37	244.8	19 39	3				20 59				
STUTTGART	147.44	335.2	19 36	0							23 8	PP
KARLSRUHE	147.58	336.3	19 36	0								
TUBINGEN	147.72	335.1	19 37	1								
TRIESTE	147.75	327.1	19 38	2							21 35	
KEW	147.91	347.8	19 38	1								
EBINGEN	148.04	334.8	19 38	1							20 3	
RAVENSBURG	148.09	333.7	19 38	1								
STRASBOURG	148.18	336.5	19 41K	4							23 8	PP
CHUR	148.86	332.7	19 43	5								
PADOVA	148.86	328.5	19 46	8							23 15	PP
PARIS	149.71	342.6	19 46	7				20 35			23 21	PP
NEUCHATEL	149.79	335.7	19 41	2								
BESANCON	149.95	337.0	18 46	-54								
FLORENCE X.	150.33	326.9	19 40	0							23 17	PKS
FOLINIERE	150.49	346.2	19 42	1								
ROME	150.94	322.8	19 33	-8							23 15	PP
MESSINA	151.18	313.8	19 49	7	26 48	6		19 55			23 29	PP
ISOLA	152.04	332.1	19 41	-2							23 30	PP
MONACO	152.22	331.1	19 45	2								
CLERMONT-FD.	152.23	339.0	19 45	2								
BAGNERES	155.60	340.5	19 41	-7								
TOLEDO	159.73	345.1	19 55	2							24 17	PP
GRANADA	162.14	341.3	20 29K	34	27 50	57					24 51	PP
MBOUR	171.55	133.7	19 56	-7							25 10	PP

AUGUST 15 19.H 3.M 52.S EPICENTRE 32.98 142.54 DEPTH= 0.KM

A=-0.66724 B= 0.51122 C= 0.54171 D= 0.6082 E= 0.7938
G=-0.4300 H= 0.3295 K=-0.8406 HT= 0.8

SE= 2.1'

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	S	M	S	S	M	S		
MERA	2.97	311.4	0	48A	-1	1	18	-8				
TYOSI	3.07	333.4	0	51K	0	1	27	-2				
TORI SIMA	3.14	218.1	0	51	-1	1	29	-1				
OSIMA	3.18	305.1	0	51A	-1	1	25	-7				
YOKOHAMA	3.43	316.4	0	55	-1	1	35	-3				
AJIRO	3.53	306.8	0	56	-1	1	35	-5				
TOKYO C.M.O.	3.55	320.2	0	58K	0	1	39	-2				
HONGO	3.56	320.7	0	59	1							
MI SIMA	3.67	306.6	0	59A	0	1	39	-5				
KAKIOKA	3.79	329.7	1	1	0	1	41	-6				
MITO	3.80	333.9	1	1A	0	1	44	-3				
TUKUBASAN	3.81	328.8	1	0	-1							
OMAESAKI	3.95	295.4	1	5	2	1	54	3				
SHI ZUOKA	3.97	301.2	1	9A	5	1	57	5				
HUNATU	4.01	309.9	1	3	-1	1	47	-6				
KUMAGAYA	4.10	321.4	1	7	2	1	53	-2				
TITIBU	4.14	317.3	1	6	0	1	52	-4				

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1961

PAGE 775

ONAHAMA	4.19	341.7	1	7A	0	1	51	-6	
UTUNOMIYA	4.19	329.1	1	5K	-2	1	52	-5	
KOHU	4.25	310.3	1	8A	0	2	0	1	
MAEBASI	4.45	321.0	1	10A	0	1	59	-5	
SHIRAKAWA	4.55	335.9	1	13	1	2	1	-5	
IIDA	4.65	304.3	1	14	1	2	9	0	
OIWAKE	4.69	316.6	1	14	0	2	7	-3	
MATUMOTO	4.99	312.2	1	19	1	2	20	3	
MATUSIRO	5.03	316.1	1	18A	-1	2	13	-5	
HUKUSIMA	5.05	341.0	1	19	0	2	13	-6	
NAGOYA	5.12	296.9	1	19A	-1	2	18	-2	
NAGANO	5.13	317.1	1	20K	0	2	20	-1	
GIHU	5.36	298.4	1	24	1	2	23	-4	
KAMEYAMA	5.38	292.0	1	24A	0	2	25	-2	
TAKAYAMA	5.39	307.4	1	25	1	2	26	-1	
OWASE	5.41	283.4	1	21	-3				
TAKADA	5.41	320.6	1	25	1	2	26	-2	
SENDAI	5.45	346.3	1	24K	-1	2	21	-8	
ISINOMAKI	5.53	350.0	1	24	-2	2	24	-7	
YAMAGATA	5.56	341.9	1	26K	0	2	26	-6	
SIOMISAKI	5.70	276.6	1	28	0	2	29	-6	
NIIGATA	5.70	331.0	1	29K	1	2	30	-5	2 3
HIKONE	5.70	295.4	1	31	3	2	34	-1	
TOYAMA	5.75	311.7	1	32	3	2	36	0	
NARA	5.84	288.8	1	33	3	2	20	-19	
TSURUGA	5.98	298.3	1	32	0				
KANAZAWA	6.01	307.8	1	34	2				
KYOTO	6.01	291.7	1	32	0	2	39	-4	
HUKUI	6.05	302.2	1	34	1	2	38	-6	
OSAKA	6.07	287.9	1	35	2	2	50	6	
ABUYAMA	6.10	290.0	1	33A	-1				
AIKAWA	6.13	326.4	1	35A	1				
MIZUSAWA	6.25	349.9	1	35	-1	2	42	-7	
WAKAYAMA	6.28	283.5	1	37	1				
SAKATA	6.31	340.4	1	36	-1	2	46	-4	
KOBE	6.36	287.5	1	50	13				2 47
WAZIMA	6.37	315.1	1	41	3				
SUMOTO	6.51	284.2	1	39	0	2	52	-3	3 52
MIYAKO	6.68	356.2	1	39	-3	2	47	-13	
MORI OKA	6.80	351.0	1	42	-2	2	53	-10	
TOYGOKA	6.88	293.9	1	44	-1				3 37
AKITA	7.01	344.4	1	48	1	3	3	-5	
MUROTO	7.02	274.5	1	45	-2	3	1	-7	
TAKAMATU	7.21	283.0	1	49	0	3	12	-1	
TOTTORI	7.37	292.4	1	52	0				
KOTI	7.57	276.8	1	53	-1	3	17	-5	
HATINOHE	7.58	354.1	1	52	-3	3	10	-12	
SIMIDU	8.05	271.2	1	49	-12	3	35	1	
MATUYAMA	8.21	278.7	2	3	0	3	46	8	
MATSUE	8.22	290.1	2	4	0	3	41	3	
UWAZIMA	8.39	274.4	2	6	0				
HIROSIMA	8.54	282.1	2	7	-1	3	43	-3	
HAKODATE	8.93	351.4	2	13	0	3	49	-7	
URAKAWA	9.16	1.1	2	26	9	3	50	-12	
OOTA	9.17	274.6	2	16	-1	4	2	0	
MORI	9.24	350.8	2	19	1	3	56	-8	
HIROO	9.31	3.6	2	16	-3	3	53	-12	
MURORAN	9.41	352.9				3	57	-10	
MIYAZAKI	9.46	266.6	2	23	2	4	13	4	
TOMAKOMAI	9.67	355.8	2	28	4				
OBHIRO	9.94	2.8	2	27	0	4	10	-11	
KUMAMOTO	9.96	272.3	2	28	0	4	21	0	
SUTTSU	9.98	350.1	2	26	-2				
KUSIRO	10.09	7.8	2	27	-2	4	11	-14	
SAPPORO	10.12	355.0	2	27	-3	4	13	-12	
KAGOSIMA	10.25	265.4	2	35	3	4	39	11	
SAGA	10.27	274.9	2	35	3				
UNZENDAKE	10.34	272.0	2	35	2				
YAKUSIMA	10.56	259.4	2	34	-2	4	33	-3	
NEMURO	10.61	12.1	2	33	-3	4	19	-18	
NAGASAKI	10.65	272.1	2	36A	-1	4	48	10	
ABASHIRI	11.11	6.5	2	46	3				
TOMIE	11.60	272.0	3	21	31				5 5
WAKKANAI	12.44	357.2	2	59	-2				
VLADIVOSTOK	13.14	323.5	3	9	-2				
Y.-SAKHLINSK	14.03	0.5	3	18	-4	5	44	-16	
CHANGCHUN	17.28	313.8	4	0A	-4				
ZO-SE	18.21	269.9	4	12A	-4				

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1961

PAGE 776

GUAM	19.53	173.6	4 30	-2	8 15	8		
ILAN	19.94	251.2	4 8	-28			4 52	
TAIPEI	20.00	252.1	4 38	1	8 16	-1		
NANKING	20.05	273.9	4 35K	-3	8 14	-4		
HWALIEN	20.44	249.3	4 43	1	8 22	-4		
TAWU	21.86	246.5	6 0	64	8 56	2		
HENGCHUN	22.17	246.0	5 9	10				
PEKING	22.29	295.9	4 56	-4	8 53	-9		
PETROPAVLOVK	23.14	25.2	5 10K	1	9 19	2		
PAOTOW	27.01	295.7	5 46	0				
MAGADAN	27.14	9.2	5 47	0	10 27	2		
HONG KONG	27.21	254.2	4 46	-61	10 18	-8		
CANTON	27.52	256.5	5 51	1	10 22	-8		
SIAN	27.96	282.0	5 51	-3	10 25	-13		
YAKUTSK	30.21	348.0	6 14	0	11 18	4		
LANCHOW	31.91	286.5	6 26	-3	11 33	-7		
CHENG TU	32.70	276.5	6 34	-2	11 44	-9		
IRKUTSK	33.57	316.6	6 44	0	12 7	1		
KUNMING	35.50	267.8	7 0	0	12 28	-8		
NHATRANG	36.82	243.7	7 13	1	12 49	-7		
TOCKLAI	41.61	274.4					8 56	
PORT MORESBY	42.37	173.2	7 56	-2	14 9	-11	8 28	9 43 PP
LHASA	43.77	280.0	8 10A	1				
SHILLONG	44.47	274.2	8 15A	0	14 38	-12		
HONIARA	45.32	155.5	8 18	-3				
CHATRA	47.93	277.9	8 42K	0	15 33	-7	10 29 PP	
CALCUTTA	48.60	272.1			15 47	-2	9 4	
BOKARO	50.23	274.9	8 59K	-1	16 7	-5		
ALMATA	51.41	301.7	9 9K	0	16 28	0		
DJAKARTA	51.63	227.7			16 29	-2		
LEMBANG	51.66	226.5	9 8K	-3			16 36	
COLLEGE	52.07	30.5	9 13	-1				
CHARTERS TS.	52.89	175.6	9 19	-1			13 24	
FRUNSE	53.18	301.6	9 22K	0	16 52	0		
KIPAPA	53.49	86.5	9 26	2				
DEHRA DUN	54.19	285.8	9 38	8	17 8	2	11 22 PP	
ANDI JAN	55.33	299.7	9 38	0	17 22	1		
NEW DELHI	55.51	284.1	9 35A	-4	17 16	-8	11 39 PP	
NAMANGAN	55.78	300.1	9 42K	1	17 30	3		
LAHORE	56.74	288.5	9 47	-1	17 38	-2		
KHEYS	56.80	348.7	10 39K	51				
TASHKENT	57.41	301.1	9 52	-1	17 47	-2		
WARSAK DAM	58.06	292.2	9 57	0	17 56	-2		
STAL INABAD	58.64	298.2	10 1	0	18 5	0		
SVERDLOVSK	58.83	320.5	10 1	-2	18 5	-3		
SAMARKAND	59.59	299.9	10 8	0	18 14	-3		
BRISBANE	60.82	169.6	10 16	0			20 46	
POONA	62.55	275.1	10 26A	-2	18 48	-7		
QUETTA	63.12	289.9	10 31	-1	19 1	-1	12 50 PP	
BOMBAY	63.24	276.0	10 38	5	19 2	-2		
RESOLUTE	66.30	14.2	10 52	0				
APATITY	66.77	336.7	10 54	-1	19 46	-1		
RIVERVIEW	66.94	172.2	10 56	-1			11 22 PCP	
ADELAIDE	7.68	183.4	11 1A	0				
CANBERRA	68.21	174.3	11 4	0				
VICTORIA	68.58	45.4	11 7	0				
SODANKYLA	69.06	338.1	11 9	-1				
THULE	69.16	7.4	11 9	-1				
MUNDARING	69.21	203.8	11 10	-1				
TROMSOE	69.85	341.9	11 14	-1			13 56 PP	
CORVALLIS	70.41	49.2	11 22	4				
PENTICTON	70.45	43.5	11 18	0				
KIRUNA	70.64	340.1	11 19K	0	20 31	-2		
KAJAANI	70.64	335.0	11 19	0				
MOSCOW	71.07	324.7	11 20	-2	20 35	-3		
MAKHACH-KALA	71.72	309.6	11 25	-1	20 41	-5		
BANFF	71.85	40.4	11 30	3				
PULKOVO	72.16	330.5	11 26	-3	20 46	-5		
TEHERAN	72.47	301.5	11 31	1	20 56	2		
SHASTA	72.82	52.4	11 33	1				
UKIAH	73.01	54.2	11 26	-8				
MINERAL	73.51	52.5	11 37A	1				
NURMI JARVI	73.96	332.9	11 39K	0			14 10	
TIFLIS	74.08	309.5	11 40	0	21 11	-1		
HUNGRY HORSE	74.14	42.4	11 41	1				
GORIS	74.17	306.9	11 40K	0	21 11	-2		
BERKELEY	74.28	55.0	11 42K	1	21 15	0	11 56	26 12 SS
BRANNER	74.56	55.3	11 44	1				
STA. CRUZ C.	74.89	55.6	11 46	2				

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1961					PAGE 777				
PARAISO	74.97	56.4	11 50	5					
LICK	74.97	55.2	11 47A	2					
TARRALEAH	74.99	177.0	11 45K	0					
RENO	75.11	52.5	11 12	-34					
MOORLANDS	75.17	176.4	11 45K	-1					
VINEYARD	75.45	55.6	11 49	1					
FORT NELSON	75.67	176.4	11 48	-1				12 3	PCP
SKAL STUGAN	76.03	339.4	11 51	0					
BUTTE	76.23	43.9	11 53	1					
SOTCHI	76.32	313.2	11 52	-1	21 31	-6			
FRESNO	76.53	54.9	11 54	0					
KARAPIRO	76.95	153.8	11 56K	0					
UPPSALA	77.01	334.9	11 56K	0	21 40	-5		14 49	PP
BOZEMAN	77.31	43.6	12 0	2					
EUREKA	77.67	50.9	12 1	1			12 11	12 53	
CHATEAU	78.07	154.4	12 2	0					
TUAI	78.31	153.1	12 2	-2					
COBB RIVER	78.77	157.2	12 9	3					
SIMFEROPOL	78.88	316.6	12 6K	-1	22 1	-4			
PASADENA	79.04	56.5	12 7	-1	22 8	2		22 53	
SALT LAKE C.	79.60	48.1	12 13	2					
WELLINGTON	79.64	155.9	12 11	0					
BOULDER CITY	80.34	53.4	12 15	0					
BERGEN	80.57	340.0	12 27	11					
KISHINEV	80.57	320.6	12 15	-1	22 19	-4			
GOTEBORG	80.59	335.6	12 14	-2				15 18	PP
WARSAW	80.98	327.9	12 19	1	22 25	-2		15 29	PP
FLAMING GRGE	81.03	46.8	12 19	1					
IASI	81.13	321.3	12 20	1	22 26	-2			
LWOW	81.21	324.8	12 19K	0	22 28	-1			
GLEN CANYON	81.93	51.1	12 24	1					
COPENHAGEN	81.96	334.0	12 24K	1	22 35	-2		27 51	SS
SIDA	82.35	351.4	12 28	3					
RAPID CITY	82.72	41.5	12 28	1					
KRAKOW	82.99	326.8	12 28	0	22 45	-2		15 39	PP
CHORZOW	83.25	327.4	12 30	0				16 44	
BUCHAREST	83.71	319.8	12 32	0	22 53	-2			
RACIBORZ	83.75	327.6	12 33	1				12 47	PCP
ISTANBUL KA.	84.18	315.8	12 34	-1	22 56	-3		15 48	PP
ISTANBUL UN.	84.25	315.8	12 35	0				15 57	
KSARA	84.29	306.7	12 35K	0	23 13	13		16 2	PP
COLLMBERG	85.08	330.9	12 39K	0				15 56	PP
TUCSON	85.19	54.6	12 40	0					
HURBANOVO	85.34	326.1	12 43	3					
HALLE	85.36	331.6	12 40	0	23 4	-7			
PRUHONICE	85.43	329.3	12 40K	-1	23 9	-3		16 0	PP
BRATISLAVA	85.63	326.8	12 45	3				16 0	PP
VIENNA-H.	85.91	327.3	12 43K	0	23 12	-4			
JENA	85.94	331.4	12 43	0	23 11	-6		16 2	PP
CHEB	86.27	330.4	12 44	-1				16 1	PP
WITTEVEEN	86.31	334.9	12 46	1					
SOFIA	86.35	319.9	12 46	1					
BELGRADE	86.40	322.8	12 48A	2	23 21	0		13 32	
KASPERSKE H.	86.49	329.2	12 45K	-1				16 8	PP
MUNSTER	86.65	334.0	12 47	0					
DURHAM	87.32	340.1	12 49K	-1	23 28	-2			
DE BILT	87.43	335.3	12 51	0	23 32	1			
BENSBERG	87.63	333.6	12 51	-1				16 16	PP
HEIDELBERG	88.29	331.9	12 54	-					
LJUBLJANA	88.39	326.7	12 54K	-1				16 25	PP
STUTTART	88.56	331.2	12 56	0	23 37	-4		16 21	PP
TUBINGEN	88.84	331.2	12 58	1					
TRIESTE	89.04	326.9	12 58	0	23 23	-23		16 32	PP
EBINGEN	89.16	331.0	13 0	1					
STRASBOURG	89.32	331.9	13 0	0	23 46	-2			
HELWAN	89.76	305.9	13 0	-2	23 38	-14			
KEW	89.80	337.8	13 1	-1	23 50	-3			
PADOVA	90.08	327.7						23 38	
BESANCON	91.10	332.1	12 8	-60					
PARIS	91.12	334.9	13 9	1				13 22	PCP
TARANTO	91.16	321.5						16 45	PP
WICHITA MTS.	91.56	46.2	13 9	-1	23 33	-35		16 44	PP
FLORENCE X.	91.62	327.0	13 33	23	23 53	-16			
ROSELEND	91.86	330.1	13 12	1				16 45	PP
FOLINIERE	92.18	336.5	13 13	0					
GARCH	92.19	333.7	13 13	0				13 24	PCP
ROME	92.49	325.1	13 14	0	23 49	-28		16 57	PP
ISOLA	93.16	329.7	13 17	0					

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1961

PAGE 779

GOTEBORG	153.34	347.9	20	1	9		
HELWAN	154.72	273.1	20	4	10		
NIEDZIKA	157.76	327.0	20	31	33	20	53
COLLMBERG	159.01	340.3				20	36 PKP2
PRUHONICE	159.67	336.1	20	40	40		
JENA	159.73	342.2	20	29	29	20	59
KASPERSCHE H.	160.72	336.3	20	43	42		
LJUBLJANA	162.88	329.0	20	17	14	20	52
ROSELEND	165.77	343.5	21	6	60		
FLORENCE X.	166.09	330.8	21	4	58		

AUGUST 16 15.H 53.M 46.S EPICENTRE 34.05 137.94 DEPTH= 380.KM

A=-0.61644 B= 0.55622 C= 0.55734 D= 0.6699 E= 0.7424
G=-0.4138 H= 0.3734 K=-0.8303 HT= 0.5

DEPTH OF FOCUS= 0.055R

SE= 3.07

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
OMAESAKI	0.59	22.9	0	46	-2							
SHIZUOKA	0.99	22.4	0	48	-1	1	26	-2				
TU	1.34	299.3	0	47	-4							
MISIMA	1.35	37.7	0	48	-3	1	39	8				
NAGOYA	1.37	324.7	0	47	-4	1	26	-5				
AJIRO	1.38	43.5	0	49K	-2	1	29	-2				
OSIMA	1.39	58.5	0	49K	-2	1	28	-3				
OWASE	1.44	271.2	0	45	-6	1	21	-11				
KAMEYAMA	1.45	303.7	0	46	-6	1	25	-7				
HUNATU	1.60	25.1	0	51	-1	1	31	-2				
GIHU	1.65	324.7	0	49	-4							
KOHU	1.69	17.4	0	51	-2	1	32	-2				
MERA	1.79	60.4	0	50K	-3	1	31	-4				
HIKONE	1.85	311.6	0	55	1	1	34	-2				
NARA	1.85	290.4	1	3	9							
SIOMISAKI	1.90	252.3	1	25	31							
YOKOHAMA	1.97	45.2	0	52	-2	1	35	-2				
KYOTO	2.06	298.5	0	49	-6	1	30	-8				
OSAKA	2.08	287.4	0	50	-5							
ABUYAMA	2.12	293.3	0	50	-5							
TITIBU	2.14	25.6	0	56	0	1	38	-1				
MATUMOTO	2.19	0.6	0	55	-1	1	39	-1				
TOKYO C.M.O.	2.20	42.0	0	55A	-1	1	37	-3				
TSURUGA	2.22	316.6	0	52	-4							
HONGO	2.24	41.8	0	56	0						1	39
OI WAKE	2.33	12.2	0	56	-1	1	41	-1				
KUMAGAYA	2.40	29.0	0	56	-2	1	40	-3				
MATUSIRO	2.49	5.0	0	56	-2	1	42	-2				
MAEBASI	2.52	21.2	0	57A	-1	1	43	-1				
NAGANO	2.62	4.6	0	59	0	1	47	1				
TOYAMA	2.71	347.3	0	58	-2	1	46	-1				
TUKUBASAN	2.80	38.7	0	58	-2	1	45	-3				
KAKI OKA	2.85	39.5	1	1	0	1	46	-3				
TYOSI	2.91	54.3	1	2	1	1	49	-1				
UTUNOMIYA	2.95	31.8	0	56	-6	1	40	-10				
TOYOOKA	2.96	300.8	0	57	-5	1	42	-8				
TAKADA	3.05	4.7	1	2	-1	1	52	0				
MI TO	3.11	41.0	1	2K	-1	1	51	-2				
TAKAMATU	3.24	275.8	0	57	-7	1	44	-11				
WAZIMA	3.43	346.0	1	6	0							
SHIRAKAWA	3.58	30.6	1	7	0	2	0	0				
KOTI	3.71	263.5	1	3	-6	1	51	-11				
ONAHAMA	3.77	39.	1	40	31						2	4
NIIGATA	3.96	12.8	1	12	1	2	9	2				
HUKUSIMA	4.22	28.4	1	14A	0	3	12	61				
YAMAGATA	4.62	24.3	1	17A	-1	2	20	1				
SENDAI	4.84	28.8	1	21	1	2	23	0				
SAKATA	5.07	16.9	1	24	2							
ISINOMAKI	5.15	31.0	1	23A	0	2	30	1				
ODITA	5.33	262.9				2	22	-11				
MI ZUSAWA	5.68	25.9	1	30	1	2	41	2				
AKITA	5.92	16.4	1	33	1	2	45	1				
KUMAMOTO	6.18	260.5									2	38
MORI OKA	6.20	23.7	1	36	1	2	52	3				
MIYAKO	6.45	28.9	1	38	0	2	57	3				

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1961

PAGE 780

HATINOHE	7.07	22.8	1 45	0	3 7	0		
AOMORI	7.12	17.	1 47	2	3 12	4		
MORI	8.30	13.7	2 0	1				
URAKAWA	8.94	23.8					2 22	
HIROO	9.24	25.7	2 12	2	3 58	5		
OB IHIRO	9.77	23.4	2 22	6	4 9	5		
VLADIVOSTOK	10.21	334.2	2 18A	-3				
KUSIRO	10.25	27.7	2 24	2	4 18	4		
YAKUTSK	28.47	351.9					6 28	
SHILLONG	40.58	270.6	7 0A	-5				
SEMIPALATNSK	44.58	309.6	7 35	-2				
LAHORE	52.75	286.1	8 37	-2				
COLLEGE	53.11	30.9	8 45	3		10 4		
XHEYS	54.99	348.6					10 16	
QUETTA	59.14	287.5	9 20K	-4				
SODANKYLA	66.60	336.9	10 12	0				
TROMSOE	67.60	340.7	10 15	-3				
KIRUNA	68.28	338.8	10 23	0				
NURMI JARVI	71.22	331.3	10 40K	0				
SKALSTUGAN	73.62	337.7	10 54	0				
UPPSALA	74.36	333.1	10 58	0				
HUNGRY HORSE	75.89	40.8	11 11	4		12 31		
FORT NELSON	77.09	172.9	11 12A	-2				
KARAPIRO	79.69	150.6	11 25	-3				
EUREKA	79.93	49.0	11 34	5				
COLLMBERG	82.23	328.7	11 40K	-1				
PRUHONICE	82.49	327.1	11 42	0				
KASPERSKE H.	83.54	326.9	11 47	0				

AUGUST 16 16.H 15.M 55.S EPICENTRE -14.16 -14.33 DEPTH= 0.KM

A= 0.93982 B=-0.24012 C=-0.24307 D=-0.2475 E=-0.9689
G=-0.2355 H= 0.0602 K=-0.9700 HT= 5.9

SE= 2.05

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
MBOUR	28.48	354.6				10	35	-11				
BANGUI	37.52	62.9	7	15	-3						8	40 PP
BULAWAYO	41.38	104.4	7	48A	-2							
BROKEN HILL	41.43	95.9	7	50	0							
LWIRO	44.21	78.5	8	14	1						21	48
GRANADA	52.05	10.9									15	43
ALICANTE	53.82	13.5	9	27	0	16	59	-2			22	51 SS
TOLEDO	54.60	9.7	9	35	2							
AREQUIPA	55.02	259.7	9	35	-1							
BAGNERES	58.48	12.4	9	59	-1							
MESSINA	59.14	27.2									13	46
SAN JUAN	60.42	300.9	10	14	0						13	49
ROME	61.02	22.6										
ISOLA	61.24	17.4	10	20	0							
HELWAN	62.07	44.7	10	23	-2							
GARCHY	63.11	13.2	10	33	1						11	8
CHINCHINA	63.68	282.9	10	34	-2	19	12	2				
BESANCON	63.78	15.3	10	19	-17							
LJUBLJANA	65.34	21.7	10	45	-2						11	8
STRASBOURG	65.47	15.9									19	53
STUTTGART	66.06	16.9	10	49	-2							
BELGRADE	66.66	26.2	11	21	26						23	46 PP
KSARA	67.53	43.8	11	45	44							
KASPERSKE H.	67.68	19.4	10	58	-3						13	24
ISTANBUL KA.	68.05	34.1	11	9	5	20	7	4				
PRUHONICE	68.73	19.5	11	8	0						13	28
COLLMBERG	69.40	17.9	11	14	2						13	42 PP
NIEDZIKA	70.31	23.2	11	16	-2							
LWOW	72.09	25.0	11	28	0							
MAWSON	72.13	156.9	11	32	3				11	40		
COPENHAGEN	73.14	15.4				21	7	6			25	47 SS
SIMFEROPOL	73.40	33.7									21	3
GOTEBORG	74.82	14.3	11	43	-1							
SOUTH POLE	75.93	180.0	11	50	-1							
PALISADES	77.71	318.1	11	39	-22	21	51	-2			22	31 PS
TIFLIS	77.79	41.1	12	1	0							
UPPSALA	78.14	15.8	12	2	-1							
CHAFEL HILL	78.80	311.6	12	4	-3							

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1961

PAGE 781

SKALSTUGAN	80.18	11.7	12 17	3		
NURMI JARVI	80.69	18.4	12 16	-1		
MOSCOW	82.09	26.7	12 23	-1		
MIRNY	83.85	157.4	12 32	-1		
KIRUNA	85.55	12.5	12 42	0	23 16	3
SODANKYLA	86.60	14.7	12 46	-1		
QUETTA	89.67	58.9	13 2	0	23 59	7
FAYETTEVILLE	90.24	307.1	13 10K	6		
WICHITA MTS.	93.32	304.8	13 19	1		
CHARTERS TS.	140.98	150.3	19 39	6		17 12 PP
MATUSIRO	146.86	42.8	19 44	1		
PORT MORESBY	150.25	140.8	20 6	18		

AUGUST 17 21.H 16.M 30.S EPICENTRE 46.36 149.61 DEPTH= 152.KM

A=-0.59746 B= 0.35036 C= 0.72131 D= 0.5059 E= 0.8626
G=-0.6222 H= 0.3649 K=-0.6926 HT= -4.1

DEPTH OF FOCUS= 0.019R

SE= 2.02

	DELTA DEG.	AZ. DEG.	P			S			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S			
NEMURO	4.17	224.9	1	1K	-2	1	47	-5							
ABASHIRI	4.43	240.1	1	8	1	2	1	3							
Y.-SAKHLINSK	4.79	280.5	1	14	3	2	8	1							
KUSIRO	5.02	229.6	1	14	0	2	9	-3							
WAKKANAI	5.62	263.3	1	26	4	2	35	9							
OBHIRO	5.72	235.4	1	25	1										
UGLEGORSK	5.77	300.9	1	28	4										
HIROO	6.08	230.2	1	26	-2	2	32	-5							
RUMOE	6.14	249.8	1	32K	3	2	45	6							
URAKAWA	6.46	231.8	1	34	0	2	43	-3							
SAPPORO	6.74	243.8	1	39K	2	2	51	-2				15	5 SCS		
TOMAKOMAI	6.84	239.9	1	42	3	2	54	-2							
MURORAN	7.39	240.0	1	46	0	3	2	-7							
MORI	7.76	240.0	1	52	1	3	15	-3							
HAKODATE	7.83	237.7	1	50	-2	3	11	-8							
HATINOHE	8.27	228.1	1	56	-2	3	19	-11							
OKHA	8.39	331.6	2	2	3	3	38	5							
ADMORI	8.46	232.3	1	57	-3	3	25	-9							
MIYAKO	8.73	222.6	2	1	-3	3	29	-12							
PETROPAVLOVK	8.87	38.0	2	6	0	3	42	-2				2	51		
MORIOKA	9.08	225.9	2	5A	-3	3	39	-10							
MIZUSAWA	9.54	223.8	2	13	-1	3	50	-10							
AKITA	9.61	229.8	2	16	1	3	55	-7							
ISINOMAKI	10.01	220.7	2	17	-4	4	1	-10							
SENDAI	10.33	221.7	2	24	-1	4	8	-11							
SAKATA	10.36	227.5	2	25	0	4	13	-6							
YAMAGATA	10.61	223.5	2	26	-3	4	16	-9							
HUKUSIMA	10.95	221.5	2	32	-1	4	26	-7							
ONAHAMA	11.43	217.8	2	43K	4	4	34	-10							
NIIGATA	11.50	226.6	2	40	0	4	56	10				3	32		
SHIRAKAWA	11.58	220.5	2	42	1	4	36	-12							
AIKAWA	11.84	229.3	2	44	-1										
KLYUCHI	12.19	31.0	2	50	1										
UTUNOMIYA	12.21	220.1	2	53	4	4	54	-9	3	16	8	1	PCP		
KAKIOKA	12.34	218.3	2	48	-3	4	57	-9			15	1	SCS		
TUKUBASAN	12.39	218.5	2	47K	-5	5	6	-1			15	12	SCS		
TYOSI	12.51	214.9	2	52	-1	5	1	-9			15	16			
TAKADA	12.54	226.5	2	51	-3	4	59	-11							
MAEBASI	12.70	222.2	2	56K	0	5	27	13			4	36			
KUMAGAYA	12.76	220.6	2	55	-2	5	5	-11							
NAGANO	12.90	225.4	3	1	3	5	24	5							
HONGO	12.96	218.3	2	53	-6						6	11			
TOKYO C.M.O.	12.99	218.3	3	1	1	5	14	-7							
MATUSIRO	13.00	225.1	2	57K	-3	5	1	-20			11	40	SCP		
VLADIVOSTOK	13.00	262.0	3	0	0						5	19			
OI WAKE	13.00	223.5	3	1	1	5	30	9							
WAZIMA	13.03	231.0	2	58	-2	5	5	-17			15	16			
TITIBU	13.04	221.1	3	0	0	5	16	-6							
MAGADAN	13.24	2.6	3	5	2						5	37			
YOKOHAMA	13.25	218.1	3	5	2	5	19	-8							
MATUMOTO	13.35	225.0	3	3	-1	5	48	19							
TOYAMA	13.38	228.3	3	5	0	5	41	11							

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1961										PAGE 782	
KOHU	13.53	221.8	3	8	2	5	31	-3		15	19 SCS
HUNATU	13.58	220.8	3	11	4	5	28	-7		15	18 SCS
MERA	13.61	216.4	3	9	2						
TAKAYAMA	13.78	226.7	3	10	0						
AJIRO	13.81	218.8	3	8	-2					3	32
MISIMA	13.82	219.4	3	9	-1	5	31	-9			
OSIMA	13.93	217.4	3	11A	0	5	31	-12		15	16 SCS
IIDA	14.00	223.5	3	12	0	3	46	-118			
SHIZUOKA	14.19	220.7	3	16	1	5	39	-10			
HUKUI	14.38	229.0	3	19	2					3	57
OMAESAKI	14.58	220.3	3	25	5						
GIHU	14.61	226.0	3	19	-1	6	1	3			
NAGOYA	14.70	225.0	3	20K	-1	6	6	6			
TSURUGA	14.77	228.4	3	21	-1						
HIKONE	14.98	227.0	3	25	0	6	12	5			
KAMEYAMA	15.20	225.5	3	26	-1	6	22	10			
MAIZURU	15.27	229.6	3	27	-1	6	23	10			
KYOTO	15.44	227.7	3	27	-3	6	17	0			
TOYOOKA	15.52	231.1	3	30	-2	6	11	-8		15	23 SCS
ABUYAMA	15.64	227.8	3	31K	-2						
NARA	15.65	226.7	3	34	1						
OSAKA	15.83	227.3	3	35	0	6	32	6			
TOTTORI	15.89	232.5	3	35	-1						
DWASE	15.96	224.5	3	35	-2	6	34	5			
WAKAYAMA	16.34	227.3	3	40	-2						
SUMOTO	16.39	228.1	3	44	2	6	41	3		15	25
MATSUE	16.55	234.7	3	46	2	6	39	-3			
SIMISAKI	16.67	224.2	3	47	1	6	50	5			
TAKAMATU	16.85	230.0	3	46	-2	6	47	-2			
CHANGCHUN	17.33	270.4	3	51K	-3				4	22	4 46 *SP
TORISIMA	17.43	207.8	3	57	2	7	9	8			
MUROTO	17.62	227.5	3	59	2	7	14	8			
HIROSIWA	17.70	233.5	3	57K	-1	6	55	-12			
KOTI	17.72	229.5	3	58K	0	7	11	3		15	29 SCS
MATUYAMA	17.90	231.6	4	1	1	7	18	6			
UWAZIMA	18.49	230.9	4	6	-1	7	27	3			
SIMIDU	18.61	229.1	4	8	0	7	30	3			
SIMONOSEKI	18.85	235.5	4	10	0						
OOITA	18.99	232.7	4	14	2	7	36	1			
YAKUTSK	19.40	331.1	4	13	-3						
HUKUOKA	19.43	235.7	4	16	0	7	48	5			
ASOSAN	19.55	233.1	4	19	1	8	4	19			
SAGA	19.72	235.2	4	22	3	8	0	12			
KUMAMOTO	19.81	233.6	4	20K	0	7	58	8			
MIYAZAKI	20.10	230.6	4	32	9	8	2	7			
UNZENAKE	20.13	234.3	4	25K	1	8	9	13			
NAGASAKI	20.34	235.0	4	26K	0	8	4	4			
KAGOSIMA	20.84	231.6	4	32	1	8	16	7			
YAKUSIMA	21.74	229.8	4	41	1	8	32	7			
PEKING	25.06	267.5	5	11K	0	9	24	2	5	43	10 23 *SS
MAWASHI	26.60	228.5	5	5	-20	9	51	-5			
ZO-SE	26.72	245.3	5	27K	0	9	51	2	5	43	10 51 *SS
TIKSI	27.19	345.8	5	29	-2					7	30
NANKING	27.62	249.8	5	35K	0	9	6	-58	6	7	6 28 *SP
PAOTOW	29.08	273.0	5	48	0	10	25	-2	6	22	6 48 *SP
IRKUTSK	29.72	298.2	5	52K	-2	10	33	-4	6	33	
TAIPEI	30.93	236.2	5	54	-10						
HUALIEN	31.70	234.8	6	13	2						16 27
HSINKONG	32.52	234.1	6	24	6	11	27	6			
SIAN	32.96	263.1	6	23K	1	11	31	3	6	54	
TAWU	33.38	233.9	6	27	2						
HENGCHUN	33.74	233.8	6	33	4						
LANCHOW	35.51	269.8	6	44K	0	12	5	-2			
CANTON	37.30	244.0	7	OK	1	12	34	0			
HONG KONG	37.37	242.2	7	OK	1	13	14	39	7	46	8 33 PP
COLLEGE	37.96	38.0	7	5	1						9 10 PP
CHENG TU	38.41	262.3	7	8	0	12	49	-2	7	40	13 44 *SS
MANILA	39.61	226.5	7	18	0	13	16	7			
KUNMING	42.80	256.8	7	44K	0	13	58	2			14 59 *SS
SEMPALATNSI	44.73	301.7	7	57	-2						9 40 PP
SITKA	45.44	47.8	8	7	2	14	42	8	8	42	
TOCKLAI	47.19	265.2	8	16K	-3						
LHASA	47.99	271.0	8	27K	2	15	13	3	9	2	16 15 *SS
NHATRANG	48.14	238.3	8	27	1	15	17	5			
KIPAPA	49.01	102.2	8	34	1						
HONOLULU	49.04	102.3	8	33	0	15	26	1			
SHILLONG	49.95	266.2	8	40K	0	15	36	-1			10 29 PP
RABAU	50.39	176.7	8	43	0						15 46
FRUNSE	51.65	295.0	8	52	-1				9	27	10 52 PP

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1961										PAGE 783	
RESOLUTE	51.97	17.7	8 54	-1	16 5	0				19 34	SS
CHITTAGONG	52.08	263.2	8 55	-1	16 9	3					
HAWAII V.OB.	52.24	101.7	8 58	1	16 13	4					
CHATRA	52.40	270.9	9 5	7	16 22	11				11 4	PP
SVERDLOVSK	52.46	316.1	8 57	-2							
CALCUTTA	54.35	266.0	9 15	2	15 56	-45				10 46	
ALBERNI	54.54	53.3	9 14	0							
BOKARO	55.27	269.1	9 20	1	16 53	4				20 4	SS
PORT MORESBY	55.54	182.9	9 21	0	16 55	2				9 57	
VICTORIA	55.73	53.5	9 22	-1							
TASHKENT	55.80	296.1	9 22	-1	16 57	1				10 24	PCP
HONIARA	56.30	167.7	9 26	-1							
DEHRA DUN	56.51	280.4	9 30	2	17 7	1				12 47	PPP
KHOROG	56.58	291.2	9 29	0						13 59	
APATITY	56.73	335.7	9 27	-3	17 5	-3					
PENTICTON	57.36	51.0	9 34A	0							
CORVALLIS	58.01	57.3	9 12	-27				9 42			
NEW DELHI	58.17	279.3	9 39K	-1	17 26	-1		10 1		11 48	PP
LAHORE	58.28	283.9	9 41K	0							
BANFF	58.43	47.4	9 42	0							
WARSAK DAM	58.63	287.8	9 42	-1							
SODANKYLA	58.72	337.7	9 41K	-3	17 33	-2				19 15	SCS
TROMSOE	58.83	341.9	9 41	-3	17 32	-4				19 15	
PORT BLAIR	58.97	253.3	9 42	-3	17 37	-1					
ARCATA	59.73	61.2	9 53	2	17 53	6					
KIRUNA	59.92	340.1	9 49K	-3	17 47	-3				10 30	PCP
KAJAANI	60.85	334.7	9 58K	0	18 2	0				19 31	SCS
DARWIN	60.85	201.1	9 57	-1						12 7	
SHASTA	60.86	60.5	9 41	-17					10 35		
HUNGRY HORSE	60.91	49.3	9 59	0	18 4	2		10 36		12 46	PP
VI SHAKHPTNM	61.09	265.6	10 1K	1	18 7	2				12 13	PP
MEDAN	61.29	242.1	10 1K	0	18 14	7					
UKIAH	61.32	62.3	10 2	1				10 38			
MINERAL	61.55	60.3	10 2	-1							
SEHORE	61.74	274.7	10 3	-1							
SAN FRANCISCO	62.63	63.1	10 10	0							
BERKELEY	62.69	62.9	10 10A	0	18 24	-1		10 46			
BRANNER	63.02	63.2	10 12	-1							
RENO	63.13	60.1	9 41	-32							
BUTTE	63.15	50.7	10 13	-1	18 27	-4					
PULKOVO	63.21	330.4	10 11	-3	18 27	-4				19 49	SCS
MOSCOW	63.38	324.1	10 13	-2	18 29	-4				10 50	PCP
LICK	63.40	63.0	10 15	0						10 51	
VINEYARD	63.94	63.4	10 18	-1							
QUETTA	64.06	287.2	10 19K	0	18 39	-3		10 49		10 39	PCP
BOZEMAN	64.18	50.2	10 20	0	18 45	2		10 57			
NURMI JARVI	64.50	333.3	10 19K	-3	18 42	-5				19 56	SCS
ASHKABAD	64.55	298.9	10 23	0						14 23	PPP
DJAKARTA	64.64	228.4			18 50	1					
HYDERABAD	64.64	269.0	10 25K	2	18 50	1				12 48	PP
LEMBANG	64.79	227.2	10 23	-1	18 53	2					
FRESNO	64.90	62.5	10 25	0							
SKALSTUGAN	65.34	340.5	10 25K	-3						10 57	PCP
EUREKA	65.45	58.0	10 29	1	19 1	2		11 5		13 2	PP
PORT VILA	65.99	160.4	10 30K	-2	19 13	7					
CHARTERS TS.	66.20	183.4	10 32	-1	19 4	-4					
MADRAS	66.52	264.2	10 36K	1	19 18	6				13 3	PP
SALT LAKE C.	66.98	54.7	10 39	1	19 22	5		11 16		20 24	SCS
POONA	67.08	273.1	10 38K	-1	19 20	1				10 59	PCP
UPPSALA	67.12	336.0	10 36K	-3	19 13	-6				11 6	PCP
KARACHI	67.51	282.8	11 11K	30							
BOMBAY	67.54	274.2	10 40	-2	19 25	1				20 16	PS
PASADENA	67.62	63.7	10 41A	-1	19 26	1		11 18		11 37	*SP
KOLMAC	67.91	165.2	10 43A	-1	19 34	5					
FLAMING GRGE	68.25	53.2	10 45	-1	19 34	2					
BOULDER CITY	68.44	60.2	10 48	1	19 38	3				23 59	SS
APIA	69.22	139.6	10 51	-1							
SUVA	69.29	150.7	10 50	-2	19 48	3				11 24	PCP
RAPID CITY	69.36	47.4	10 53	0	19 49	3					
REYKJAVIK	69.66	356.0	10 56	1							
GLEN CANYON	69.69	57.6	10 55	0	19 50	1				13 51	PP
BERGEN	69.71	342.0	11 2	7	19 56	6				15 11	PPP
TIFLIS	69.78	309.5	10 56K	1				11 38		19 53	
NOUMEA	70.01	163.4	10 58A	1	20 0	7					
LARAMIE	70.06	50.8	10 57	0	19 55	1					
TEHERAN	70.19	301.2	10 59	1	19 58	3					
KODAIKANAL	70.35	264.2								20 47	
GORIS	70.50	307.0	10 59K	-1						20 59	PS
GOTEBORG	70.50	337.4	10 58K	-2						11 21	

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1961

PAGE 785

TARANTO	83.67	325.4	12 18	6	22 13	-2		
PERTH	83.71	208.4	12 15	2	22 25	4	12 56	
MELBOURNE	83.91	183.7	12 14	0			12 52	
ISOLA	83.96	333.9	12 14K	0	22 20	-3		
ROME	84.21	329.3	12 16K	1	22 26	0		15 28 PP
MONACO	84.25	333.5	12 16	1				
PALISADES	84.75	31.6	12 20K	2	22 26	-5	13 0	14 12 PP
HALIFAX	84.77	23.1	12 18	0				
FORDHAM	84.91	31.6	12 19	0	23 11	38		
WASHINGTON	85.39	34.7	12 21	0	22 27	-10	13 1	16 9
GEORGETOWN	85.39	34.7	12 20	-1			12 29	
HELWAN	85.85	309.9	12 24K	1	22 30	-12		
MESSINA	86.29	325.4	12 23K	-2	22 35	-11	12 58	23 52 PS
GUADALAJARA	86.39	63.8					13 6	
BAGNERES	86.92	338.1	12 30	2			12 56	
KARAPIRO	87.07	159.7	12 30	1				
CHAPEL HILL	87.14	37.6	12 29	0				
COLUMBIA	87.90	40.0	12 34	1	23 2	1	13 13	
TUAI	88.29	158.8	12 34	-1				
TARRALEAH	88.31	182.3	12 38	3			13 20	
MOORLANDS	88.44	181.8	12 38A	2				
FORT NELSON	88.92	181.7	12 39A	1	22 53	-17		
TORTOSA	88.94	337.1	12 38	0	23 10	-1		
TACUBAYA	89.89	61.7	12 50K	7	23 20	1	13 21	16 18 PP
WELLINGTON	90.09	161.3	12 43	0	22 54	-27	13 22	24 35 PS
KAIMATA	90.59	164.1	12 43	-3	23 30	4		
SERRA PILAR	90.76	343.7	12 46K	-1			13 27	16 26 PP
TOLEDO	90.97	340.0	12 48K	0	23 31	2	13 30	16 22 PP
ALICANTE	91.51	336.9	12 42	-8	23 28	-6		16 24 PP
COIMBRA	91.62	343.4	12 49K	-2	23 29	-6		16 28 PP
VERA CRUZ	91.90	59.6	13 10	18	23 10	-27		
ROXBURGH	93.09	166.3	13 34	37	23 58	11		23 15 SKS
OAXACA	93.19	61.4	13 15	17	23 21	-27	13 40	25 32 PS
LISBON	93.19	343.5	12 57K	-1	23 46	-2		
GRANADA	93.43	338.9	13 3	4	23 52	2		17 12 PP
ALMERIA	93.45	337.9	12 57K	-2	23 38	-13	13 53	16 44 PP
COMITAN	96.57	58.4			23 40	6		
SAN JUAN	107.93	35.7	18 35	777				
TANANARIVE	111.68	265.0	18 20	4				18 58 PP
LWIRO	112.50	291.7	14 26	-232	24 52	6		
BANGUI	113.47	304.9	18 23	3				19 5 PP
CARACAS	114.62	40.1	19 6	44				20 17 PP
CHINCHINA	115.08	51.3	18 22	-1				20 0 PP
WILKES	116.30	196.5			27 6	125		20 6 PP
TRINIDAD	116.81	34.6	18 29	3				19 37
MBOUR	118.35	345.2						29 58 PS
CAPE HALLETT	119.25	172.9	17 48	-43	26 21	70		19 53 PP
BROKEN HILL	121.73	282.9	18 37	1				20 14 PP
SCOTT BASE	124.38	175.7	18 42	1	25 28	0	19 23	20 23 PP
BULAWAYO	125.60	277.9	18 44K	1				20 37 PP
LUANDA	127.28	301.0	18 48K	2				20 50 PP
HUANCAYO	128.99	62.8	18 52	2				
MAWSON	130.62	210.3	18 52K	-1			19 33	21 11 PP
KIMBERLEY	133.83	272.4	18 45	-14				
LA PAZ	136.80	59.1	19 7	3				22 24 PKS
ARGENTINE I.	153.68	148.0	19 41	9				20 39 PKP2

AUGUST 18 11.H 1.M 28.S EPICENTRE -24.27-179.65 DEPTH= 512.KM

A=-0.91264 B=-0.00563 C=-0.40872 D=-0.0062 E= 1.0000
G= 0.4087 H= 0.0025 K=-0.9127 HT= 3.6

DEPTH OF FOCUS= 0.076R

SE= 2.81

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
RAOUL ISLAND	5.20	163.1	1	30	0	2	44	3				
ONERAHI	12.58	202.9	2	47	2	5	5	7				
APIA	12.79	36.9	2	44	-3	4	59	-3				
NOUMEA	12.93	275.9	2	50K	2	5	10	6				
PORT VILA	12.98	297.8	2	48K	-1	5	11	6				
KARAPIRO	14.22	195.7	3	3A	1	5	38	9				
TUAI	14.74	189.9	3	8	1	5	40	2				
KOUMAC	15.31	280.8	3	15A	2	5	59	10				

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1961

PAGE 786

CHATEAU TONGARIRO	15.43 15.44	194.2 194.2	3 13 3 6	-1 -8	5 51	0		
WELLINGTON	17.59	194.0	3 34	-1	6 30	1		
COBB RIVER	17.94	199.0	3 39	1	6 34	-1		
KAIMATA	19.65	200.0	3 54	-1	7 3	-1		
GEBBIES PASS	20.39	196.2	4 1	-1	7 13	-4		
HONIARA	24.42	303.7	4 37	-1				
BRISBANE	24.99	256.9	4 42	-2	8 28	-3		
CHARTERS TS.	31.80	270.7	5 45	2	10 15	-2		
MOORLANDS	32.82	228.3	5 52K	1				
FORT NELSON	32.91	227.4	5 51K	-1				
TARRALEAH	33.27	229.0	5 56	1				
RABAU	33.69	301.9	5 58	-1				
MACQUARIE I.	34.14	202.3	6 2	0				
PORT MORESBY	34.93	289.3	6 9	0	11 2	-3		
ADELAIDE	37.50	243.7	6 30A	0	11 39	-4		
CAPE HALLETT	48.41	184.1	7 58K	2			9 40	
SCOTT BASE	54.03	183.5	8 39K	2	15 41	7	10 21	10 46 PP
MUNDARING	56.38	246.7	8 52A	-1				
SOUTH POLE	65.88	180.0	9 57	1				
MIRNY	66.96	205.8	10 1	-1				
LEMBANG	71.50	270.8	10 30	1	19 7	0		
MATUSIRO	72.38	325.5	10 34K	0	19 18	1		
MAWSON	77.52	200.4	11 3A	0				
ARGENTINE I.	78.11	157.1	11 7	1			13 1	
VLADIVOSTOK	80.51	326.2	11 18K	-1				
LICK	82.04	43.0	11 19	-8				13 14
PASADENA	82.35	47.3	13 20	112				
FRESNO	82.85	44.4	13 22	111				
SHASTA	83.69	40.0	13 28	113				
MINERAL	83.94	40.7	11 37A	1				13 32
RENO	84.52	42.2	13 33	114				
BOULDER CITY	85.65	47.4	13 40	116				19 5 PP
TUCSON	86.42	52.3	11 51	3			13 44	
TUCSON TELE.	86.55	52.3	11 52	3			13 44	
EUREKA	86.88	44.0	11 52	2			13 45	15 23 PP
GLEN CANYON	88.37	48.0	12 0	3			13 53	
PENTICTON	90.61	34.5	12 8	0				
FLAMING GRGE	91.90	45.5	12 25	11			14 5	12 54
COLLEGE	92.20	13.0	12 15	0			14 9	14 45 *SP
HUNGRY HORSE	93.05	37.5					14 13	
YAKUTSK	95.01	338.5	12 27	-1				
WICHITA MTS.	96.60	55.0	12 36	1			14 33	16 37 PP
KIRUNA	134.71	349.4						20 47 PP
KAJAANI	136.33	343.0	18 15	-7				21 9 SKP
MOSCOW	138.40	328.9						17 1
SKAL STUGAN	139.91	351.7						21 2 PP
NURMI JARVI	140.06	341.5						21 19 SKP
LWIRO	141.81	230.3	18 32K	-1				
UPPSALA	142.44	345.8	18 31	-3				
GOTEBORG	145.57	349.0	18 41	2				
LWOW	148.52	330.1	18 50	7				
RACIBORZ	150.73	336.2	18 55	8				19 3 PKP2
COLLMBERG	151.31	343.4	18 58K	10			21 0	22 6 PP
PRUHONICE	152.05	340.3	18 58	9			21 2	
KASPERSK H.	153.10	340.6	19 0A	10			21 4	
STUTTGART	154.55	346.2	19 20	28				
LJUBLJANA	155.45	335.8	19 24	31				
GARCHY	156.93	355.3	19 30	35				

AUGUST 19 2.H 43.M 5.S EPICENTRE 43.16 144.98 DEPTH= 76.KM

A=-0.59923 B= 0.41993 C= 0.68160 D= 0.5739 E= 0.8189
G=-0.5582 H= 0.3912 K=-0.7317 HT= -2.9

DEPTH OF FOCUS= 0.007R

SE= 4.88

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S		
KUSIRO	0.46	246.9	0	9K	-6	0	18	-8				
NEMURO	0.47	68.9	0	8A	-7	0	15	-11				
ABASHIRI	1.00	329.7	0	19	-1	0	37	3				
OBIIHRO	1.33	260.1	0	22	-2	0	27	-15				
HIROO	1.51	234.7	0	23	-4	0	42	-4				

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1961

PAGE 787

URAKAWA	1.91	238.8	0 28	-4	0 57	2	
ASAHIGAWA	2.00	288.9	0 34	1			
TOMAKOMAI	2.55	259.1	0 40	-1	1 13	2	
RUMOE	2.56	289.0	0 41	0	1 26	15	
SAPPORO	2.66	269.3	0 41K	-1	1 14	0	
MURORAN	3.06	255.4	0 45	-3	1 23	-1	
WAKKANAI	3.27	314.8	0 52	1	1 46	17	
HAKODATE	3.40	248.0	0 51A	-1	1 30	-2	
MORI	3.42	253.4	0 51	-2	1 31	-2	
SUTTSU	3.50	265.7	0 52	-2	1 44	9	
HATINOHE	3.68	225.6	0 50	-6	1 29	-10	
AOMORI	3.91	234.6	0 53	-6	1 29	-16	
MIYAKO	4.17	213.8	0 56	-7	1 40	-11	
Y.-SAKHLINSK	4.18	338.3	1 3	0			2 1
MORIOKA	4.49	220.9	1 1A	-7	1 47	-12	
MIZUSAWA	4.97	217.1	1 8	-6	2 0	-11	
AKITA	5.03	228.5	1 13	-2	2 13	1	
ISINOMAKI	5.48	211.6	1 14A	-7	2 10	-14	
SAKATA	5.77	224.2	1 18	-7			
SENDAI	5.79	213.7	1 18	-7	2 18	-13	
UGLEGORSK	6.25	342.2	1 32	0	2 46	3	
HUKUSIMA	6.41	213.9	1 26	-8	2 34	-13	
NIIGATA	6.91	222.7					2 11
ONAHAMA	6.95	208.1	1 51	9	2 44	-16	
SHIRAKAWA	7.05	212.7	1 38	-5	2 50	-12	
AIKAWA	7.25	227.2	1 40	-6			
MITO	7.61	208.6	1 40K	-11	2 59	-17	
UTUNOMIYA	7.68	212.4	1 33	-19	3 6	-12	
KAKIOKA	7.85	209.7	1 42	-12	3 6	-16	
TUKUBASAN	7.89	210.1	1 44A	-10	3 4	-19	
TAKADA	7.95	222.6	1 50	-5			
TYOSI	8.09	204.6	1 53	-4	3 9	-19	
MAEBASI	8.14	215.9	2 16	18	3 23	-6	
KUMAGAYA	8.22	213.5	1 49	-10	3 14	-17	
NAGANO	8.31	221.0	1 51	-9			
MATUSIRO	8.41	220.4	1 55A	-7	3 37	1	
OIWAKE	8.43	218.1	2 1	-1			
WAZIMA	8.45	229.6	1 59	-3			
TOKYO C.M.O.	8.49	210.1	1 57	-6	3 23	-15	
YOKOHAMA	8.75	209.9			3 30	-14	
TOYAMA	8.79	225.4	1 59	-8			
HUNATU	9.03	214.2	3 16	66	3 40	-11	
MERA	9.15	207.6			3 38	-16	
TAKAYAMA	9.19	222.9	1 47	-25			
MISIMA	9.29	212.2	2 17	3	3 42	-15	
AJIRO	9.30	211.3	2 5	-9			3 40
VLADIVOSTOK	9.56	274.2	2 16	-1	4 9	5	
SHIZUOKA	9.64	214.2			3 50	-16	
HUKUI	9.79	226.4	2 19	-1			
OMAESAKI	10.04	213.8			4 10	-6	
NAGOYA	10.11	220.5	2 7	-18	4 12	-5	
KAMEYAMA	10.61	221.4					2 57
ABUYAMA	11.04	224.6	2 29A	-8			
OSAKA	11.24	224.0	2 53	13			
PETROPAVLOVK	13.42	38.0	3 11	2			4 39
YAKUTSK	20.94	339.7	4 43	4	8 25	2	
PEKING	21.72	271.6	4 46A	-1			
ZO-SE	22.39	245.3	4 48	-5			
NANKING	23.43	250.5	5 2	-1	9 21	13	
PAOTOW	26.04	276.4	5 28	0			
SIAN	29.33	264.5	5 59A	1			
LANCHOW	32.23	271.4	6 24A	0			
CHENG TU	34.72	262.7	6 44	-1			
MANILA	35.02	223.1	6 47	0			7 31
KUNMING	38.84	256.3	7 20	0	13 35	23	
COLLEGE	42.49	35.6	7 50	0			10 16
SEMI PALATNSK	43.64	303.0	8 0	1			
LHASA	44.74	270.9	8 8	0			
SHILLONG	46.42	265.6	8 20A	-1			
CHATRA	49.13	270.3					9 48
FRUNSE	50.01	295.3	8 50	1			
SVERDLOVSK	52.48	316.4	9 7	-1			
TASHKENT	54.23	295.9	9 21	0	16 59	9	
KHOROG	54.63	290.7	9 26	3			
LAHORE	55.81	283.1	9 30	-2			
RESOLUTE	55.98	16.1	9 32	-1			
VICTORIA	60.30	49.9	10 14	11			
SODANKYLA	60.39	336.9	10 3	-1			
TROMSOE	60.81	341.1	10 5	-2			

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1961

PAGE 788

QUETTA	61.81	286.0	10	13A	-1					
PENTICTON	61.94	47.6	10	10	-4					
KAJAANI	62.30	333.8	10	17	0					
BANFF	63.02	44.2	10	33	11					
MOSCOW	63.98	323.1	10	27	-1					
SHASTA	65.34	56.7	10	32	-5					
NURMIJARVI	65.82	332.1	10	39A	-1					
MINERAL	66.03	56.6	10	33	-8					
BERKELEY	67.12	59.1	10	59A	11					
SKALSTUGAN	67.19	339.1	10	47A	-1					
RENO	67.62	56.4	10	32	-19					
LICK	67.84	59.2	11	3A	11					
UPPSALA	68.64	334.5	10	56A	-1					
FRESNO	69.34	58.7	11	13	11					
GORIS	69.72	305.4	11	4A	0	20	12	6	11	17
EUREKA	69.97	54.4	11	5	-1				11	27
										*SP
WOODY	70.61	59.1	11	6	-3				11	19
SALT LAKE C.	71.53	51.2	11	26	11					
GOTEBORG	72.12	335.6	11	18A	0					
FLAMING GRGE	72.82	49.8	11	22	-1				11	34
BOULDER CITY	72.92	56.6	11	37	14					
COPENHAGEN	73.65	334.2	11	28	1					
GLEN CANYON	74.22	54.0	11	26	-5					11 47
LARAMIE	74.65	47.4	11	34	1					
KRAKOW	75.51	327.0	11	39	1					12 8
RACIBORZ	76.17	327.9	11	43	1					12 27
COLLMBERG	77.10	331.4	11	47A	0					14 41
PRUHONICE	77.63	329.8	11	50A	0					PP
TUCSON	77.88	57.2	11	51	0				12	4
TUCSON TELE.	77.89	57.0	11	52	1				12	4
JENA	77.90	331.9	11	48	-4					12 58
MUNSTER	78.32	334.7	11	55	1					
KASPERSKE H.	78.69	329.8	11	56A	0					12 42
BENSBERG	79.33	334.4	12	16	17					
STUTTGART	80.52	332.1	12	6	0					13 24
JERUSALEM	81.57	305.9	12	13	2					
WICHITA MTS.	83.22	48.0	12	19	-1					15 23
GARCHY	83.85	335.0	12	23	0					PP
FAYETTEVILLE	84.49	44.3	12	25A	-1					12 19
SHAWINIGAN	84.61	25.1	12	27	0					PCP
OTTAWA	84.67	27.5	12	26	-1					
HELWAN	85.25	307.0	12	31	1					
BREBEUF	85.28	26.1	12	29	-1					
KARAPIRO	85.35	156.2	12	37	7					
PALISADES	89.17	28.4				23	31	2		30
SOUTH POLE	132.97	180.0	19	5	-2					3 SS

AUGUST 19 5.H 9.M 52.S EPICENTRE -10.82 -70.87 DEPTH= 629.KM

A= 0.32190 B=-0.92823 C=-0.18646 D=-0.9448 E=-0.3276
G=-0.061 H= 0.1762 K=-0.9825 HT= 6.4

DEPTH OF FOCUS= 0.094R

SE= 1.75

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
LA PAZ	6.25	155.0	1	44K	-1	3	1	-7				
ANTOFAGASTA	12.82	178.1	2	45	-1	5	2	2				
CHINCHINA	16.38	343.0	3	22A	2	6	1	0				
FUQUENE	16.43	349.9	3	22K	1	5	44	-18				
BALBOA HTS.	21.46	335.9	4	8	1	7	27	2				
CARACAS	21.54	10.6	4	8K	1	7	28	2				
SANTIAGO	22.51	179.5	4	15	-1							
TRINIDAD	23.31	24.1	4	23	0						12	5
GRENADA	24.47	22.0	4	32K	-1						8	13
ST. VINCENT	25.67	22.0	4	45	1						14	10
BARBADOS	26.28	25.5	4	51A	2						16	33
DOMINICA	27.59	20.1	4	59A	-2							
ST. KITTS	29.11	16.1	5	13K	-1							
ANTIGUA	29.18	17.9	5	13	-1							
SAN JUAN	29.39	9.2	5	14K	-2	9	24	-5	6	43	8	2
												PCP
SANTIAGO MA.	29.80	323.7	5	24	5						7	2
SAN SALVADOR	30.38	322.8	5	27	3						7	10
COMITAN	34.14	321.6	5	56	0	10	36	-5				PP

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1961		PAGE 789									
VERA CRUZ	38.85	320.0	6 36	2	11 48	-3	8 18	8 28	PP		
PUEBLA	40.07	317.6	6 44	0	12 4	-4					
TACUBAYA	41.00	316.9	6 53K	1	12 23	2	8 28	8 42	PP		
PORT STANLEY	42.12	167.9	7 2	2							
MANZANILLO	44.37	311.8	7 21	3	13 12	3					
COLUMBIA	45.60	348.2	7 26K	-1	13 21	-5		15 13			
CHAPEL HILL	47.12	350.9	7 37	-2							
WASHINGTON	49.79	353.7	7 56A	-3	13 52	-31	9 47	8 25	PCP		
MORGANTOWN	50.89	351.0	8 6K	-1	14 24	-14					
FAYETTEVILLE	51.58	335.8	8 10	-1	14 35	-12					
PALISADES	51.64	357.1	8 10K	-2	14 39	-9	9 55	9 11	PCP		
PENNSYLVANIA	51.76	353.2	8 11	-2	14 49	0	10 2	9 14	PCP		
CHIHUAHUA	51.92	319.9	8 18	4	14 56	5		10 18	PP		
WICHITA MTS.	52.36	331.1	8 15K	-2	14 52	-5	10 8	17 1	SCS		
CLEVELAND	52.95	350.0	8 20	-1	15 1	-4					
LUBBOCK	53.09	327.5	8 20	-2							
ARGENTINE I.	54.55	176.6	8 30	-2				12 24	SCP		
HALIFAX	55.57	6.3	8 39K	0							
OTTAWA	56.12	355.9	8 41K	-2							
SHAWINIGAN	57.13	358.4	8 49K	-1							
TUCSON TELE.	57.37	319.9	8 51K	-1							
TUCSON	57.38	319.8	8 51K	-1	15 59	-3	10 49	12 26	PP		
MBOUR	59.01	66.0	9 4	1				12 4	PP		
LARAMIE	60.93	330.6	9 15	0				16 49			
GLEN CANYON	61.00	323.3	9 16K	0	16 50	2	11 21	22 16			
RAPID CITY	62.03	334.1	9 22K	0	17 12	12	11 20				
BOULDER CITY	62.32	320.5	8 25K	-59							
FLAMING GRGE	62.56	327.9	9 25	-1	17 6	-1	11 26	9 45	PCP		
PASADENA	63.36	317.0	9 30K	-1	17 11	-5	11 26	18 21	SCS		
SALT LAKE C.	63.76	326.3	9 33K	0	17 12	-9					
ANGRA DO HO.	63.85	37.0	9 37	3	17 36	14		20 43			
PONTA DELGDA	64.19	38.7	9 37K	1	17 18	-8	11 36	12 6	PP		
EUREKA	65.25	322.9	9 43A	0	17 17	-22	11 37	12 12	PP		
FRESNO	65.97	318.5	9 46K	-1							
BOZEMAN	66.83	330.5	9 52K	0	17 53	-4	11 53	19 29			
VINEYARD	67.00	317.7	9 52K	-1							
LICK	67.50	318.1	9 57K	1	18 8	3	12 1				
RENO	67.61	320.9	9 27K	-30							
BUTTE	67.82	330.0	9 53K	-5	18 1	-8					
BRANNER	67.90	317.9	9 59K	0							
BERKELEY	68.21	318.2	10 1K	0	18 15	2	12 1				
SAN FRANCISCO	68.28	318.1	10 1	0			10 4				
MINERAL	69.20	320.7	10 5K	-2							
UKIAH	69.54	318.9	10 10K	2	18 32	4	12 14				
SHASTA	69.90	320.7	10 9K	-2							
HUNGRY HORSE	70.17	331.0	10 12K	0	18 40	5	12 17	14 8	SCP		
ARCATA	71.06	320.1	10 18	1							
CORVALLIS	72.68	323.6	10 30K	3							
BANFF	72.84	332.4	10 28K	0							
PENTICTON	73.57	329.1	10 31K	-1							
VICTORIA	75.05	326.9	10 40K	0							
LISBON	75.65	45.3	10 45K	2	19 25	-10		13 52	PP		
ALBERNI	76.24	327.0	10 46K	0							
COIMBRA	76.81	44.2	10 50K	1	19 47	0	12 59	15 38	PP		
SERRA PILAR	77.11	43.3	10 50K	-1			12 58	13 56	PP		
GRANADA	78.99	48.6	10 13	-48	20 14	4		24 32	SS		
SOUTH POLE	79.25	180.0	11 2	0	18 37	-96					
ALMERIA	79.71	49.3	11 5K	0	20 19	2	13 14	14 17	PP		
TOLEDO	79.72	46.0	10 57K	-8	20 53	36	13 16	24 53	SS		
ALICANTE	81.72	48.5	11 15	0	20 35	-2		14 35	PP		
LUANDA	82.63	97.6	11 21K	1	20 48	2	13 34	14 48	PP		
TORTOSA	83.30	46.4	11 22	-1	20 47	-5					
REYKJAVIK	83.38	19.5	11 25K	2	20 59	6	13 34	19 12			
BAGNERES	83.84	44.2	10 26	-60			12 36	13 25	PP		
VIK	83.89	20.8	11 26	0	21 2	4					
HERMANUS	84.06	123.8	11 27	0	20 53	-7		14 43	PP		
WINDHOEK	84.07	111.8	11 27K	0							
SIDA	84.45	20.8	11 30K	1	21 18	15	13 42	19 11			
JERSEY	84.68	37.9	10 50	-40	20 55	-11					
FOLINIERE	85.51	38.7	11 33	-1				20 59			
SITKA	85.67	330.4	11 34K	0	20 56	-19		22 20	SP		
SCOTT BASE	85.94	190.3	11 36A	0	21 18	1	13 52	15 13	PP		
KEW	86.61	36.2	11 38K	-1	21 16	-7	13 48	14 58	PP		
RESOLUTE	86.63	353.8	11 39	0	21 5	-19		13 49			
CLERMONT-FD.	86.76	42.4	11 40K	0				24 57	SS		
EDINBURGH	86.80	31.4	11 41	1	21 29	4		15 23	PP		
DURHAM	87.17	32.9	11 43A	1	21 31	2	13 52	15 0	PP		
GARCH	87.22	40.9	12 41	59				13 52			

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1961		PAGE 790									
PARIS	87.36	39.4	11 44	2	21 8	-22	13 54	25 20	SS		
ABERDEEN	87.86	30.5	11 45K	0	21 38	3		15 48	PP		
CAPE HALLETT	88.15	195.5	11 46A	0	21 16	-21	14 1	15 23	PP		
ISOLA	88.95	44.7	11 50	0			14 5				
MONACO	89.09	45.2	11 50	0			14 3				
BESANCON	89.10	41.6	11 50	-1				13 58			
NEUCHATEL	89.66	42.0	11 53	0	21 26	-25					
KIMBERLEY	89.76	119.1	11 53A	-1							
DE BILT	90.04	36.8	11 55K	0	21 26	-28	14 4	25 49	PS		
BASLE	90.22	41.6	11 56K	0	21 30	-26					
GRAHAMSTOWN	90.27	123.9	11 58	2							
BANGUI	90.31	85.6	11 54	-2	22 26	29					
CHIAVARI	90.56	45.0	12 1	4	21 35	-24		21 8	SKS		
STRASBOURG	90.63	40.6	11 56K	-2	21 27	-32	14 4	15 58	PP		
BENSBERG	90.90	38.2	11 58K	-1	21 31	-31	14 11				
WITTEVEEN	91.12	36.4	12 1K	1			14 21				
KARL SRUHE	91.15	40.3	11 58	-2	22 0	-4					
KIPAPA	91.27	291.4	12 1K	1	21 58	-7	14 14	19 49			
EBINGEN	91.29	41.2	12 0	-1							
HONOLULU	91.32	291.3	12 1K	0	21 35	-30	14 12				
CHUR	91.33	42.6	12 0K	-1	21 34	-31					
HEIDELBERG	91.45	40.0	12 1	0							
MUNSTER	91.45	37.3	12 3	2	21 53	-13					
TUBINGEN	91.45	40.9	12 0	-1							
RAVENSBURG	91.62	41.7	12 2	0							
STUTTGART	91.64	40.7	12 2K	0	21 36	-32	14 11	18 50	*SPP		
PRATO	91.70	45.8	13 2	60	23 6	57					
FLORENCE X.	91.78	45.9	11 59K	-4	22 17	8					
BOLOGNA	92.00	45.2	12 8	4				21 38			
ROME	92.25	47.9	12 5K	0	22 16	3	14 17	16 7	PP		
PADOVA	92.58	44.4	12 7K	1	22 16	0	14 18	16 3	PP		
BERGEN	92.60	28.9	12 8	1	22 27	11		14 34			
PRETORIA	93.37	116.9	12 10	0				21 49			
JENA	93.60	38.9	12 11	0	21 48	-37	14 23	16 15	PP		
MESSINA	93.82	52.0	12 19K	7	22 31	4	14 19	15 47	PP		
CHEB	93.91	39.9	12 12	-1	22 27	0		23 47	SP		
TRIESTE	93.92	44.4	12 13K	0	21 49	-39	14 26	16 12	PP		
HALLE	93.95	38.4	12 12	-1	22 27	-1					
COLLEGE	94.23	335.3	12 13K	-1	21 37	-53					
KASPERSKE H.	94.49	41.0	12 14	-1			14 28				
LJUBLJANA	94.52	44.1	12 16K	1	22 36	3	14 25	16 15	PP		
COLLMBERG	94.55	38.8	12 16K	1	22 35	2	14 28	16 13	PP		
MAWSON	95.06	163.9			21 52	-2		22 32	S		
BULAWAYO	95.07	111.5	12 18K	0							
COPENHAGEN	95.10	34.4	12 18K	0	21 56	2	14 30	16 16	PP		
PRAGUE	95.21	40.2	12 21	3	21 57	3	14 33	22 57	S		
GOTEBORG	95.26	32.3	12 18K	-1	22 10	15	14 30	29 8	PKKP		
PRUHONICE	95.27	40.3	12 19K	0	21 58	3	14 32	16 22	PP		
TARANTO	95.51	50.0	12 22	2	21 27	-29		25 8	PS		
VIENNA-H.	96.15	42.2	12 22K	-1	22 0	1	14 33	24 10	SP		
BROKEN HILL	96.22	105.9	12 24K	1							
SKALSTUGAN	96.57	26.6	12 24K	-1	22 2	0	14 39	29 4	PKKP		
BRATISLAVA	96.62	42.3	12 25	0	22 50	48		15 32	*SP		
TITOGRAD	97.30	48.3	12 34	6	22 9	4		15 47	PP		
HURBANOVO	97.31	42.7	12 18	-10							
RACIBORZ	97.61	40.5	12 30	1			14 48	16 34	PP		
BUDAPEST	97.80	43.2	12 26	-4	22 4	-4	14 41	16 17	PP		
AFIAMALU	97.81	254.2	12 34	4	22 14	6	14 50	29 5	PKKP		
CHORZOW	98.14	40.4	12 32	0			14 45	16 37	PP		
BELGRADE	98.46	46.0	12 32K	-1	22 12	1		15 40	PP		
UPPSALA	98.51	30.7	12 32K	-1	22 6	-5	14 44	16 42	PP		
KRAKOW	98.71	40.7	12 35K	1	22 13	1	14 46	16 44	PP		
SKALNATE PL.	98.82	41.6	12 35	0			14 46				
SKOPJE	98.85	48.9	11 44	-51	21 12	-61					
LWIRO	99.07	94.0	12 37	1				19 46			
TIMI SOARA	99.11	45.1	12 38	2	22 15	1		23 45	SP		
WARSAW	99.61	38.6	12 35	-3	22 6	-11	15 1	16 50	PP		
TUAI	99.84	227.3	12 42	3	22 28	10	15 1				
TROMSOE	99.99	20.8	12 39	-1	22 18	0		24 35	SP		
ATHENS	100.16	53.2	12 42A	1	22 19	0					
SOFIA	100.32	48.4	12 41	0				16 55	PP		
KIRUNA	100.43	22.7	12 42K	0	22 22	1	14 53	16 54	PP		
WELLINGTON	100.53	224.3	12 44	2	22 21	0	15 11	28 48	SS		
CHATEAU	100.84	226.5	12 45	1	22 24	1	15 2				
TONGARIRO	100.85	226.5	12 45	1				29 21			
GEBBIES PASS	100.91	221.4			22 22	-1		17 5	PP		
COBB RIVER	102.01	223.8			22 21	-7		26 31	PS		
NURMIJARVI	102.06	30.2	12 49	0	22 27	-1	15 3	16 59	PP		
ROXBURGH	102.19	218.6			22 30	1		15 6	PP		

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1961

PAGE 791

KAIMATA	102.25	222.1			22 25	6		23 41	S
BUCHAREST	102.45	46.8	12 50	-1	22 29	-1		25 16	S
SODANKYLA	102.80	23.2	12 52	0	22 30	-2		29 9	PKKP
WILKES	103.05	180.6	12 53A	0	22 32	-1	15 8	17 16	PP
ONERAHI	103.07	229.3			22 34	1		23 15	
KAJAANI	103.41	26.5	12 56	1	22 35	1		23 51	
IASI	103.58	43.9	17 23	267	22 33	-2			
ISTANBUL UN.	104.43	50.3	13 0	0					
ISTANBUL KA.	104.50	50.3	12 49K	-11	22 40	1	15 11	17 20	PP
PULKOVO	104.91	30.9			22 41	0		17 32	PP
APATITY	105.39	22.7	13 4	777	24 6	83			
SUVA	105.81	247.6	17 35	777	22 51	6		20 19	PPP
HELWAN	105.83	61.9	13 7	777				15 26	
SIMFEROPOL	108.17	46.2	17 19	777	22 56	1		17 50	PP
MOSCOW	109.28	34.6	17 19	777	22 59	-1		18 0	PP
KSARA	109.82	57.9	13 24	777			15 35	18 9	PP
TANANARIVE	112.49	115.7	13 44	-221	23 44	31	16 7	18 28	PP
NOUMEA	114.89	239.2	17 33	3	23 27	5			
PORT VILA	115.03	244.6						17 29	PP
TIFLIS	116.25	48.8	17 35	2				24 46	SKKS
MOORLANDS	116.57	210.7	17 35	2			20 3		
TARRALEAH	117.03	210.3	17 36	2				18 55	PP
KOUMAC	117.45	240.1	17 38	3	23 44	13			
GORIS	117.75	51.0	17 36	0				21 11	PKS
TIKSI	118.04	353.0	17 36	0				22 4	
RIVERVIEW	120.28	220.2	17 42K	1	23 43	2	20 5	19 18	PP
CANBERRA	120.62	217.5	17 42K	1	23 40	-2		19 23	PP
SVERDLOVSK	120.91	28.7	17 43	1				19 18	PP
PETROPAVLOVK	122.27	327.1	17 44	0	23 48	1		19 24	PP
MAGADAN	122.29	336.4	17 44	-1				19 31	PP
TEHERAN	122.35	54.5	17 46	1				19 25	PP
BRISBANE	123.14	227.1	17 41	-5					
HONIARA	125.59	250.1	17 53	2					
ADELAIDE	126.53	210.3	17 54K	1	23 52	-8		20 12	PP
YAKUTSK	126.74	348.1	17 39	-14			19 57	21 9	PKS
ASHKABAD	127.25	50.3	17 55	1					
CHARTERS TS.	132.26	230.1	17 47	-17	23 52	-23			
TASHKENT	133.69	41.9						20 43	PP
Y.-SAKHLINSK	134.10	328.2	17 54	-13					
RABAU	134.63	253.1	17 56	-12					
KUSIRO	135.67	322.7	18 7	-3					
WAKKANAI	135.69	327.1	18 10	0					
FRUNSE	136.21	37.0	17 58	-13				21 46	PKS
ASAHI GAWA	136.36	324.9	18 9	-2				20 49	
QUETTA	136.36	57.4	18 14K	3			20 50	21 50	PKS
OBIHIRO	136.41	323.3	18 13	2					
HIROO	136.72	322.5	18 14	2					
MUNDARING	136.92	188.8	18 0K	-12				20 35	
PERTH	136.99	188.4	18 4	-8				20 51	PP
URAKAWA	137.12	322.7	18 12	-1					
PORT MORESBY	137.17	243.4	18 4	-9				20 52	
SAPPORO	137.39	324.7	18 13	0				20 47	
KARACHI	137.76	65.0	18 30	16			21 4		
MURORAN	138.07	324.1	18 11	-3				20 54	
SUTTSU	138.19	325.2	18 18	3				21 52	
MORI	138.45	324.2	18 8	-7					
IRKUTSK	138.48	4.5						21 13	PP
HATINOHE	138.85	321.6	18 14	-2				20 54	PP
MIYAKO	139.09	320.2	18 20	4					
MORIOKA	139.56	320.9	18 13	-4					
MI ZUSAWA	139.93	320.2	18 12	-6				21 21	
AKITA	140.21	321.7	18 14	-5				20 58	
ISINOMAKI	140.21	319.2	18 12	-7				20 58	
SENDAI	140.57	319.3	18 14	-6				20 57	
SAKATA	140.87	320.8	18 18	-3					
YAMAGATA	140.94	319.6	18 15	-6				20 50	
HUKUSIMA	141.15	318.9	18 19	-2				21 0	
ONAHAMA	141.32	317.5	18 17A	-5					
SHIRAKAWA	141.68	318.3	18 19	-3					
LAHORE	141.80	52.0	18 18	-4					
MITO	141.93	317.1	18 18	-5					
NIIGATA	141.96	320.2	18 19	-4					
KAKIOKA	142.21	317.1	18 21	-2				20 50	
VLADIVOSTOK	142.21	332.4	18 18	-5					
UTUNOMIYA	142.23	317.8	18 21	-2					
TUKUBASAN	142.27	317.2	18 14K	-9				21 37	PP
AIKAWA	142.39	321.0	18 19	-4					
KUMAGAYA	142.79	317.6	18 21	-3					

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1961					PAGE 792	
TOKYO C.M.O.	142.80	316.7	18 22K	-2		
MAEBASI	142.85	318.2	18 22K	-2		19 21 19 35
TAKADA	142.96	319.8	18 22	-2		
YOKOHAMA	143.01	316.4	18 23	-1		
TITIBU	143.08	317.6	18 23	-1		
MERA	143.17	315.6	18 23	-1		
OIWAKE	143.23	318.5	18 23	-1		
NAGANO	143.25	319.2	18 25K	1		
MATUSIRO	143.32	319.1	18 22	-2	20 43	
OSIMA	143.56	315.7	18 24K	-1		
HUNATU	143.56	317.2	18 26	1		18 48
AJIRO	143.60	316.3	18 24	-1		
KOHU	143.61	317.6	18 14K	-11		
WAZIMA	143.63	321.2	18 25A	0		
MATUMOTO	143.65	318.9	18 26A	1		
MISIMA	143.66	316.5	18 23K	-2		21 1
TOYAMA	143.87	320.1	18 26	1		
BOMBAY	144.06	72.8	18 22A	-4		21 57 PP
SHIZUOKA	144.12	316.8	18 26	0		
TAKAYAMA	144.17	319.3	18 26	0		
IIDA	144.18	318.0	18 26	0		
KANAZAWA	144.32	320.3	18 28	2		
OMAE SAKI	144.45	316.4	18 28	2		
HUKUI	144.88	320.1	18 31	4		
GIHU	144.94	318.7	18 29	2		
MAGOYA	144.95	318.2	18 29K	2		
TORISIMA	145.06	308.7	18 31	4		25 27
POONA	145.07	73.2	18 29K	2		27 44
GUAM	145.10	278.0	18 26K	-1	21 49	26 5
DEHRA DUN	145.21	51.5	18 32K	5		22 3
TSURUGA	145.24	319.7	18 33	6		
NEW DELHI	145.30	54.8	18 29K	1	20 47	21 49 PP
HIKONE	145.35	319.0	18 29K	1		20 51
KAMEYAMA	145.47	318.2	18 37A	9		
TU	145.53	318.0	18 30	2		
MAIZURU	145.78	320.0	18 32	4		
KYOTO	145.84	319.1	18 25	-3		
NARA	145.99	318.5	18 33	4		
ABUYAMA	146.04	319.0	18 30K	1		
TOYOOKA	146.10	320.7	18 31	2		23 25
OWASE	146.11	317.3	18 34	5		
OSAKA	146.20	318.8	18 35	6		
KOBE	146.41	319.1	18 35	6		
WAKAYAMA	146.70	318.5	18 34	4		
SUMOTO	146.80	318.9	18 32	2		19 15
YONAGO	147.07	322.0	18 36	6		
SEHORE	147.07	63.9	18 33	3	20 43	27 54
TOKUSIMA	147.18	318.8	18 53	23		
MATSUE	147.22	322.3	18 36	6		
TAKAMATU	147.36	319.7	18 38	8		
MUROTO	147.95	318.0	18 35	4		20 58
KOTI	148.18	319.1	18 34	2		20 45 PP
HIROSIMA	148.34	321.4	18 34	2		20 46
MATUYAMA	148.47	320.3	18 39	7		
KODAIKANAL	148.88	88.1	18 41	8		
UWAZIMA	149.01	319.7	18 40	7		
SIMIDU	149.03	318.6	18 29	-4		
SIMONOSEKI	149.53	322.5	18 35	1		
OOITA	149.60	320.7	18 37	3		
HUKUOKA	150.12	322.6	18 38	3		
ASOSAN	150.16	320.8	18 39	4		
SAGA	150.39	322.2	18 37	2		
KUMAMOTO	150.45	321.1	18 38	3		
MIYAZAKI	150.59	318.9	18 43	8		
UNZENAKE	150.78	321.5	18 37	1		
NAGASAKI	151.01	322.0	18 39K	3		
KAGOSIMA	151.38	319.4	18 39	3		
MADRAS	151.60	82.7	18 40K	3	20 55	22 52
TOMIE	151.75	323.2	18 39	2		
YAKUSIMA	152.14	317.7	18 39	1		
CHATRA	153.89	49.4	18 43K	3		22 22
VISHAKHAPTAM	154.07	71.7	18 46K	6		22 21
BOKARO	154.30	56.7	18 44K	3		28 32
SHILLONG	158.04	45.8	18 47K	2		22 58
CHITTAGONG	159.86	53.1	18 53	6	21 15	
TAIPEI	161.61	321.9	18 51	2		27 43
ILAN	161.66	320.8	18 56	7		27 44
HSINCHU	162.12	322.6	18 54	4		

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1961

PAGE 793

HUALIEN	162.32	319.3	18 55K	5					27 59
LEMBANG	162.41	175.0	18 53	3					29 11
TAICHUNG	162.78	321.8	18 54	4					
DJAKARTA	162.96	172.2	18 52K	1					
HSINKONG	163.09	317.8	19 1	10					28 7
YUSHAN	163.10	319.7	18 53	2					28 9
ALISHAN	163.16	320.1	18 55	4					27 57
TAITUNG	163.48	317.4	18 54	3					27 58
TAINAN	163.91	320.2	18 50	-2					
TAWU	163.92	317.0	18 52	0					28 11
HENGCHUN	164.27	316.4	18 56	4					28 15
HONG KONG	167.60	337.7	18 57	2	25 22	23			22 18 *SPKP
MANILA	167.73	289.4	18 58	3					22 28

AUGUST 19 5.H 33.M 35.S EPICENTRE 36.13 136.66 DEPTH= 30.KM

A=-0.58883 B= 0.55560 C= 0.58702 D= 0.6863 E= 0.7273
G=-0.4270 H= 0.4029 K=-0.8096 HT= -0.3

SE= 2.30

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
HUKUI	0.36	257.3	0	6	-4	0	14	-4			1	12
KANAZAWA	0.40	358.5	0	7A	-4	0	15	-3				
TAKAYAMA	0.48	87.4	0	5K	-7	0	13	-7				
TSURUGA	0.68	225.4	0	13	-1	0	22	-3				
TOYAMA	0.72	37.1	0	12K	-3	0	25	0				
GIHU	0.73	173.2	0	11K	-4	0	21	-5				
HIKONE	0.92	201.5	0	14K	-3	0	25	-5				
NAGOYA	0.99	165.3	0	16K	-2	0	27	-4				
MATUMOTO	1.06	83.1	0	16	-3							
IIDA	1.13	122.3	0	14K	-6	0	30	-5				
MAIZURU	1.23	237.9	0	20K	-2	0	37	0				
WAZIMA	1.26	8.6	0	22A	0	0	38	0				
KAMEYAMA	1.29	187.1	0	23A	1	0	39	0				
MATUSIRO	1.31	71.4	0	21K	-2							
KYOTO	1.34	214.6	0	22K	-1	0	45	5				
NAGANO	1.35	66.0	0	24K	1	0	44	4				
TU	1.43	184.7	0	20A	-4	0	37	-5				
OIWAKE	1.54	82.0	0	26	0	0	37	-8				
ABUYAMA	1.54	215.7	0	25K	-1							
NARA	1.60	205.4	0	27A	0	0	49	2				
TAKADA	1.60	52.4	0	26K	-1	0	48	1				
KOHU	1.61	106.0	0	26K	-1	0	53	6				
TOYOOKA	1.61	248.8	0	26K	-1	0	49	2				
HAMAMATU	1.65	148.2	0	26K	-2	0	44	-4				
OSAKA	1.74	212.4	0	29K	0	0	51	1				
HUNATU	1.82	109.5	0	30K	0	0	50	-2				
SHIZUOKA	1.83	128.7	0	29K	-1	0	55	2				
KOBE	1.89	220.4	0	32K	1	0	57	3				
MAEBASI	1.96	81.4	0	33K	1	0	54	-2				
TITIBU	1.96	93.7	0	33	1	0	58	2				
OMAESAKI	1.99	139.7	0	33K	1	0	56	-1				
OWASE	2.09	190.6	0	33A	-1	0	59	0				
MISIMA	2.12	117.7	0	34K	0	1	3	3				
KUMAGAYA	2.20	88.7	0	37K	2	1	5	3				
WAKAYAMA	2.26	213.3	0	37K	1	1	7	4				
AJIRO	2.26	117.8	0	37	1	1	6	3				
AIKAWA	2.27	33.5	0	36	-1	1	8	4				
SUMOTO	2.29	219.3	0	37K	0	1	7	3				
NAGATURO	2.35	129.9	0	53K	15	1	32	26				
HIMEJI	2.46	229.4	0	34K	-5	1	2	-7				
YOKOHAMA	2.53	105.2	0	42K	2	1	20	10				
TOKYO C.M.O.	2.55	99.3	0	41K	1	1	10	-1				
HONGO	2.56	98.5	0	42K	1							
OSIMA	2.60	120.7	0	41K	0	1	15	3				
NIIGATA	2.62	46.2	0	43K	2	1	17	5				
UTUNOMIYA	2.62	79.9	0	43K	1	1	12	-1				
OKAYAMA	2.67	238.0	0	39K	-3	0	42	-32				
TOKUSIMA	2.67	220.3	0	52K	10	1	36	22				
SAIGO	2.70	272.5	0	42	-1	1	30	15				
SIOMISAKI	2.77	195.6	0	43A	-1	1	19	3				
TUKUBASAN	2.78	87.1	0	41K	-3							
YONAGO	2.78	256.4	0	44	0	1	31	14				
TAKAMATU	2.80	230.6	0	44K	0	1	25	8				
KAKIOKA	2.85	87.0	0	44K	-1	1	20	2				

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1961		PAGE 794					
NERA	2.85	114.1	0 44K	-1	1 19	1	
MATSUE	3.00	258.0	0 47	0	1 33	1	
SHIRAKAWA	3.03	69.9	0 48K	1	1 25	2	
MI TO	3.09	84.2	0 46	-2	1 25	1	
TSURUGISAN	3.15	224.5	0 46	-3	1 24	-2	
TYOSI	3.42	95.6	0 52K	-1	1 35	2	
HUKUSIMA	3.45	60.9	0 54K	1	1 39	5	
ONAHAMA	3.51	75.3	0 54K	0	1 40	5	
MUROTO	3.53	216.2	0 57K	3	1 47	11	
YAMAGATA	3.63	53.2	0 56K	0	1 56	18	
KOTI	3.64	225.9	0 56K	0	1 39	0	
SAKATA	3.74	41.4	0 58K	1	1 44	3	
HIROSIMA	3.88	244.4	0 58K	-1	1 43	-2	
MATUYAMA	3.92	235.5	1 1K	1	1 51	5	
SENDAI	4.00	56.5	1 1K	0	2 12	24	
ISINOMAKI	4.37	56.9	1 6K	0	2 3	6	
UWAZIMA	4.46	230.7	1 7	-1	2 1	2	
AKITA	4.50	36.1	1 10K	2	2 1	1	
SIMIDU	4.52	223.5	1 9K	0	2 13	12	
MI ZUSAWA	4.64	48.5	1 12	2	2 22	18	
MORIOKA	5.04	43.6	1 16K	0	2 22	8	
OOITA	5.06	236.6	1 17K	1	2 27	13	
SIMONOSEKI	5.18	246.8	1 17K	-1	2 25	8	
MI YAKO	5.47	48.5	1 24K	2	2 32	7	
ASOSAN	5.63	236.7	1 25	1	2 33	4	
AOMORI	5.69	33.3	1 27	2	2 42	12	
HUKUOKA	5.76	245.6	1 29A	3	2 43	11	
HATINOHE	5.82	39.6	1 27	0	2 45	11	
KUMAMOTO	5.93	237.9	1 28K	0	3 0	24	
SAGA	5.98	243.1	1 31K	2	3 2	25	
MI YAZAKI	6.05	227.5	1 31K	1	2 48	9	
UNZENDAKE	6.29	239.2	1 32K	-1	2 43	-2	
ITUHARA	6.35	254.5	1 33K	-1	2 51	4	
HAKODATE	6.51	28.1	1 37	1	2 51	0	
NAGASAKI	6.55	240.8	1 38K	1	3 17	25	
MORI	6.69	25.8	1 42	3	3 11	16	2 0 PP
KAGOSIMA	6.82	229.9	1 42K	1	3 11	13	
MURORAN	7.03	27.1	1 47	3	3 17	13	
SUTTSU	7.21	21.4	1 47	1	3 23	15	
TOMIE	7.40	244.1	1 51K	2	3 22	9	
TOMAKOMAI	7.52	28.9	1 23	-28			
YAKUSIMA	7.66	224.1	1 52K	-1	3 30	11	
URAKAWA	7.66	36.5	1 54	1	3 29	10	
SAPPORO	7.82	26.1	1 57K	2	3 28	5	
VLADIVOSTOK	7.89	333.7	1 53	-3			
HIROO	8.02	38.0	1 58	0			3 49
OBIHIRO	8.45	34.7	2 5	1			
RUMOE	8.68	24.4	2 10K	3	3 54	9	
ASAHIKAWA	8.81	28.1	2 10	1			
KUSIRO	9.08	38.8	2 9	-3	3 52	-3	
ABASHIRI	9.80	34.2	2 17	-5			
NEMURO	9.94	40.9	2 25	1			
WAKKANAI	10.03	20.7	2 26	1	4 29	11	4 59
CHANGCHUN	11.61	314.9	2 37	-10			
Y. -SAKHLINSK	11.78	20.7	2 48	-1	4 55	-6	
ZO-SE	13.84	253.2	3 18K	1	6 5	15	
NANKING	15.36	259.8	3 38K	2	6 37	11	
PEKING	16.59	289.7	3 53K	1	7 6	11	
PAOTOW	21.32	290.1	4 47K	0	8 45	8	
SIAN	22.72	273.4	5 2	1	9 11	8	
PETROPAVLOVK	22.88	35.6	5 4	2			5 58 PPP
GUAM	23.71	160.1	4 44A	-26			
HONG KONG	23.91	240.9	5 13	1			
CANTON	24.01	243.6	5 15A	2	9 34	9	
MANILA	25.52	217.1	5 29	1	9 57	6	
LANCHOW	26.47	279.6	5 37	0			
CHENG TU	27.72	268.1	5 57	9			
IRKUTSK	27.94	315.4	5 48A	-2			6 47 PP
KUNMING	31.04	258.8	6 22	4	11 29	9	
SHILLONG	39.57	267.4	7 27	-3	13 25	-6	16 17 SS
CHITTAGONG	41.11	263.1	7 43	0	13 54	0	
CHATRA	42.83	271.9	7 56	-1	14 23	4	9 40 PP
BOKARO	45.27	268.9	8 20	3			
PORT BLAIR	46.45	249.7	8 31	5			
FRUNSE	47.40	298.0	8 31	-3			
MEDAN	47.68	236.2					13 13
DEHRA DUN	48.74	280.9	8 46	2	15 47	3	10 33 PP
NEW DELHI	50.12	279.2	8 54	-1			

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1961

PAGE 795

DJAKARTA	50.54	219.8	8 56	-2	15 55	-14	
COLLEGE	51.88	31.7	9 8A	0			
KHEYS	52.75	348.3	9 15	0			10 22 PCP
SYERDLOVSK	53.29	318.3	9 17	-2			
MADRAS	55.46	260.6	8 39	-55			
CHARTERS TS.	56.65	169.2	9 40	-3	17 33	2	
QUETTA	57.54	285.7	9 44	-5			
POONA	57.56	270.1	9 45	-4			
HONOLULU	58.12	85.7	9 53	0	17 57	6	
KIPAPA	58.12	85.6	9 53A	0			
BOMBAY	58.21	271.1	9 45	-9			
SITKA	59.54	39.3	10 3A	0	18 17	8	
HAWAII V.OB.	61.35	86.0	10 17	1	18 43	11	
APATITY	61.91	334.9	10 17	-2			
SODANKYLA	64.28	336.2	10 33	-2	19 10	1	39 21 PKPPKP
BRISBANE	64.98	164.2	10 40	0			19 21
TROMSOE	65.30	340.1	10 39	-3			15 17
MOSCOW	65.66	322.2	10 42	-2			13 12 PP
KAJAANI	65.69	332.9	10 43	-1			
KIRUNA	65.97	338.1	10 44	-2	19 33	3	23 37 SS
TEHERAN	66.69	298.0	10 50	0	19 45	6	
SIVA	66.90	136.5			19 52	11	
PULKOVO	66.98	328.2	10 51	-1			13 16 PP
ALBERNI	68.59	44.1	11 1	-1			
HURMI JARVI	68.90	330.5	11 2	-2	20 8	3	11 21 PP
AFIAMALU	69.60	125.8	11 7	-2	20 18	5	28 31 SSS
PERTH	70.48	198.7	11 19	5			15 4
ADELAIDE	70.76	178.2	11 14K	-2	20 31	4	
SEATTLE	70.87	44.6	11 17	1	20 38	10	
RIVERVIEW	70.90	167.3	11 15A	-1			11 48
SKALSTUGAN	71.31	337.1	1 17	-2			30 42 PKKP
PENTICTON	71.44	42.1	11 19A	-1			
CORVALLIS	71.95	47.7	11 26A	3			
CANBERRA	72.01	169.4	11 21A	-2			14 4 PP
UPPSALA	72.04	332.4	11 21A	-2	20 41	-1	13 31
SIMFEROPOL	73.23	313.6	11 29	-1			14 17 PP
SHASTA	74.67	50.7	11 39K	0			26 23
HUNGRY HORSE	75.00	40.7	11 42A	1			14 21
UKIAH	75.03	52.4	11 42A	1			14 25
MINERAL	75.36	50.7	11 43K	0			14 24
GOTEBORG	75.65	332.9	11 42A	-2			
SAN FRANCISCO	76.30	53.2	11 48	0			
BERKELEY	76.36	53.1	11 49A	1			14 27
BRANNER	76.68	53.4	11 50A	0			
COPENHAGEN	76.94	331.3	11 51A	-1	21 40	4	
REMO	76.95	50.5	11 22A	-30			
LICK	77.07	53.2	11 52A	0			14 32
BUTTE	77.23	41.9	11 53A	0			
VINEYARD	77.58	53.6	11 55A	0			
CHORZOW	77.93	324.5	1 57	0			15 59
BOZEMAN	78.27	41.5	11 59A	0			
RACIBORZ	78.44	324.7	11 55	-5			12 11 PCP
KSARA	78.52	303.4	12 0	0	21 44	-9	14 52 PP
TARRALEAH	78.57	172.6	11 58K	-3			
FRESNO	78.60	52.8	12 1	0			
REYKJAVIK	78.64	350.6	12 3	2			
MOORLANDS	78.78	172.1	12 3K	1			
FORT NELSON	79.29	172.0	12 3K	-1	21 46	-15	
EUREKA	79.36	48.7	12 10A	5			
BUDAPEST	79.83	322.4	12 7	0			
WOODY	79.85	53.2	11 2	-66			
TIMISOARA	79.89	320.0	12 14	6	22 14	6	
COLLMBERG	79.91	327.9	12 7A	-1	22 12	4	15 10 PP
HURBANOVO	79.97	323.1	12 2	-6	22 25	17	
PRUHONICE	80.19	326.3	12 9A	0	22 15	4	13 59
HALLE	80.21	328.6	12 9	0	22 10	-1	
BRATISLAVA	80.29	323.8	11 55A	-15	22 18	6	
VIENNA-H.	80.58	324.2	12 12A	1	22 23	8	15 12 PP
ABERDEEN	80.76	338.7	12 14	2	22 20	3	23 5 PS
SOFIA	80.78	316.7	12 14	2			15 20 PP
JEMA	80.79	328.4	12 11	-2	22 19	2	14 40
BELGRADE	80.92	319.7	12 13A	0	22 28	10	12 51
SALT LAKE C.	80.99	45.7	12 13A	-1			
CHEB	81.07	327.4	12 12	-2			
PASADENA	81.24	54.1	12 14A	-1	22 30	8	
KASPER'SKE H.	81.24	326.2	12 14A	-1			
WI TTEVEEH	81.33	331.9	12 15	0			
MUNSTER	81.62	330.9	12 18	1			

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1961

PAGE 796

KARAPIRO	82.01	149.9	12 17A	-2					
EDINBURGH	82.13	338.5	12 19	-1					
FLAMING GRGE	82.29	44.3	12 20A	0	22 3	-29		24 21	
BENSBERG	82.58	330.5	12 21A	-1					
DURHAM	82.62	337.1	12 24K	2	22 45	9		16 11 PP	
LJUBLJANA	83.03	323.6	12 23A	-1				15 39 PP	
TONGARIRO	83.09	150.6	12 23	-1					
CHATEAU	83.10	150.6	12 23	-1				12 46	
HEIDELBERG	83.15	328.7	12 25	0					
TITograd	83.18	310.5	12 24	-1	22 47	6		19 28	
STUTTGART	83.40	328.0	12 26	0					
TUAI	83.41	149.3	12 25	-1					
RAPID CITY	83.45	38.9	12 27A	1	22 5	-39			
KARLSRUHE	83.58	328.6	12 26	-1					
GLEN CANYON	83.61	48.5	12 25K	-2	22 10	-36		24 31	
TUBINGEN	83.67	328.0	12 27A	0					
ATHENS	83.67	312.9	12 27	0					
TRIESTE	83.70	323.7	12 26A	-1	22 52	5		15 43 PP	
EBINGEN	83.98	327.8	12 28	-1					
RAVENSBURG	84.00	327.2	12 29	0					
STRASBOURG	84.18	328.7	12 30A	0	22 51	0			
PADOVA	84.77	324.5	12 32	-1	22 58	1		17 17 PPP	
KEW	84.96	334.6	12 33A	1	23 1	2		15 53 PP	
BASILE	85.08	328.1	12 34	0	23 8	8			
BESANCON	85.98	328.8	12 37	-2					
PARIS	86.13	331.6	12 39	-1				15 6	
PRATO	86.27	323.9	13 40	60					
FLORENCE X.	86.28	323.7	12 38A	-2	22 50	-22			
ROXBURGH	86.42	157.6	12 44	3					
CHIAVARI	86.78	325.1	12 56	13	22 55	-22		30 30 SSS	
ROME	87.00	321.8	12 43	-1				15 50 PP	
ROSELIND	87.16	327.5	12 40	4					
TUCSON	87.18	51.6	12 45A	0					
TUCSON TELE.	87.19	51.5	12 46A	1					
FOLINIERE	87.27	333.2	12 44	-1				13 43	
MESSINA	88.17	317.6	12 48	-1				16 18 PP	
CLERMONT-FD.	88.35	329.5	12 51	1					
BAGHERES	91.78	329.7	12 6	-60					
CHIHUAHUA	92.64	51.5						27 9	
WICHITA MTS.	92.71	42.7	13 11	0				16 54 PP	
SHAWHIGAN	93.54	19.9	13 15A	0				22 10	
FAYETTEVILLE	94.00	39.0	13 17A	0				15 39 PP	
SERRA PILAR	96.77	334.3	13 30A	1	23 35	-28		17 27 PP	
PENNSYLVANIA	97.14	25.7	13 32	1					
LISBON	99.10	333.6						16 51	
WASHINGTON	99.10	26.0	14 44	64					
TAMANARIVE	100.21	254.1	13 44	-1				17 56 PP	
TACUBAYA	103.59	53.5	13 56	-4	25 51	75		18 25 PP	
BANGUI	109.57	290.9	13 45	777				18 54 PP	
CAPE HALLETT	1 0.65	169.6						19 5 PP	
BROKEN HILL	112.98	268.6	18 32	-2					
SCOTT BASE	115.17	173.3	13 45	-294	25 35	10		19 34 PP	
BUI AWAYO	115.89	263.2	18 45	5					
MAWSON	117.10	204.4	18 32	-10				19 53 PP	
SAN JUAN	121.66	25.6	18 52K	1				20 22 PP	
KIMBERLEY	123.08	256.5	18 55	1					
CARACAS	128.56	30.2	19 6K	1				22 40	
ARGENTINE I.	148.30	163.4	19 41	1					
LA PAZ	150.55	54.9	19 46K	2					

AUGUST 19 8.H 7.M 21.S EPICENTRE 36.06 136.82 DEPTH= 0.KM

A=-0.59081 B= 0.55448 C= 0.58609 D= 0.6843 E= 0.7292
G=-0.4274 H= 0.4011 K=-0.8102 HT= -0.3

SE= 4.71

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	S	M	S	S	M	S		
TAKAYAMA	0.36	76.0	0	7K	-5	0	13	-7				
HUKUI	0.48	268.6				0	8	-15				
KANAZAWA	0.48	343.9	0	12	-2	0	20	-3				
GIHU	0.66	183.3	0	9K	-7	0	20	-7				
TOYAMA	0.71	25.8	0	17K	0	0	27	-1				
TSURUGA	0.73	236.0	0	7A	-10	0	15	-14				
NAGOYA	0.90	172.0	0	13K	-6	0	26	-7				
HIKONE	0.92	210.4	0	8K	-12	0	18	-16				

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1961

PAGE 797

MATUMOTO	0.95	78.4	0 15	-5	0 32	-3	
IIDA	0.99	123.1	0 17K	-4	0 33	-3	
MATUSIRO	1.22	66.7	0 23	-1	0 41	-1	
KAMEYAMA	1.24	193.3	0 20	-4	0 35	-7	
NAGANO	1.27	61.1	0 24A	-1	0 37	-6	
MAIZURU	1.30	243.4	0 18K	-7	0 34	-10	
WAZIMA	1.32	2.9	0 24A	-1	0 40	-4	
KYOTO	1.37	220.7	0 20K	-6	0 36	-9	
TU	1.38	190.2	0 23	-3	0 40	-6	
OIWAKE	1.43	78.7	0 27	0			
KOHU	1.47	105.0	0 26K	-2	0 47	-1	
TAKADA	1.55	47.7	0 29	0	0 54	4	
ABUYAMA	1.57	220.9	0 23K	-6	0 43	-7	
NARA	1.60	210.6	0 25K	-4	0 44	-7	
HUNATU	1.68	108.9	0 31	0	0 53	0	
SHIZUOKA	1.69	129.7	0 27K	-4	0 51	-2	
TOYOOKA	1.71	252.4	0 25K	-6	0 47	-7	
OSAKA	1.76	217.1	0 28	-4	0 50	-5	
TITIBU	1.84	91.9	0 34	1	0 59	2	
MAEBASI	1.85	78.9	0 33A	0	0 53	-5	
OMAE SAKI	1.86	141.4	0 33	0	0 56	-2	
KOBE	1.92	224.6	0 30	-4	0 55	-4	
MISIMA	1.98	117.8	0 34	-1	0 59	-2	
OWASE	2.05	194.5	0 33	-3	0 58	-5	
KUMAGAYA	2.08	86.9	0 37K	1	1 9	6	
AJIRO	2.12	117.8	0 36A	-1	1 5	1	
TOTTORI	2.21	256.3	0 30	-8	0 56	-11	
AIKAWA	2.26	30.0	0 43	4	1 12	4	
WAKAYAMA	2.27	216.9	0 34	-5	1 3	-5	
SUMOTO	2.32	222.8	0 36	-4	1 4	-6	
YOKOHAMA	2.39	104.5	0 42	1	1 19	8	
TOKYO C.M.D.	2.41	98.3	0 46	5	1 17	5	
HONGO	2.42	97.5	0 44	3			1 18
OSIMA	2.46	120.9	0 43	1	1 7	-6	
UTUNOMIYA	2.51	78.0	0 48	5	1 20	6	
NIIGATA	2.57	43.3	0 46	3	1 26	10	
TUKUBASAN	2.66	85.7	0 43A	-2			
MERA	2.71	114.0	0 47	2	1 25	6	
KAKIJOKA	2.73	85.5	0 46	0	1 20	0	
OKAYAMA	2.74	240.6	0 37	-9	1 10	-10	
SIOMISAKI	2.75	198.6	0 41	-5	1 16	-4	
SAIGO	2.83	273.8	0 41	-6	1 25	3	
TAKAMATU	2.86	233.3	0 44	-3			
YONAGO	2.89	258.4	0 49	1	1 21	-3	
SHIRAKAWA	2.93	67.9	0 49	0			
MITO	2.97	82.8	0 54	5	1 34	8	
MATSUE	3.11	259.7	0 50	-1	1 36	7	
TSURUGISAN	3.19	227.0	0 49	-3	1 29	-3	
TYOSI	3.29	94.8	0 59	5	1 39	5	
HUKUSIMA	3.38	59.0					2 5
ONAHAMA	3.41	73.7	0 57	2	1 43	6	
MUROTO	3.55	218.5	0 55	-2	1 48	7	
YAMAGATA	3.57	51.2	0 57	-1	1 58	17	
KOTI	3.69	228.1	1 4	5	1 48	4	
SAKATA	3.71	39.3	1 10	10			
SENDAI	3.93	54.8	1 4	1	2 0	10	
HIROSIMA	3.97	246.1	0 59	-4	1 44	-7	
MATUYAMA	3.99	237.4	1 1	-3	2 0	8	
ISINOMAKI	4.30	55.3	1 9	1	2 10	10	
AKITA	4.48	34.4			1 57	-7	
UWAZIMA	4.51	232.4	1 19	8			
SIMIDU	4.56	225.3	1 14	2	2 8	2	
MIZUSAWA	4.59	46.9	1 20	8	2 23	16	
OOITA	5.13	238.1	1 34	14	2 29	8	
MIYAKO	5.43	47.2	1 32	8			
HUKUOKA	5.85	246.8					2 27
KUMAMOTO	6.00	239.1	1 43	11	3 3	21	
SAGA	6.06	244.3	2 22	49	3 3	19	
MIYAZAKI	6.10	228.9					1 55
NAGASAKI	6.63	241.9	1 38	-3	3 9	11	
MORI	6.70	24.7	1 43	1			
KAGOSIMA	6.88	231.1					3 50
TOMIE	7.49	245.0					3 43
SAPPORO	7.82	25.2	1 58	0			
COLLEGE	51.87	31.7	9 8	-4			10 21
CHARTERS TS.	56.56	169.4	9 40	-6			
KOUMAC	62.02	150.7	10 45	21			
KIRUNA	66.07	338.2	10 45	-6			

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1961

PAGE 799

UKIAH	51.40	305.9	8 58	1					
CORVALLIS	52.40	312.7	8 53	-11					
VICTORIA	53.39	317.5	8 42K	-30					
ALBERNI	54.48	318.1	8 29	-51					
REYKJAVIK	55.73	22.8	9 30	1					
SIDA	57.00	24.2	9 28	-10					
RESOLUTE	58.34	352.1	9 45	-2					
TOLEDO	59.31	54.0	9 54	0	18 0 8		10 30	10 20	
DURHAM	62.24	37.1	9 55K	-19	17 55 -34				
FOLINIERE	62.30	44.0	10 14	0			10 38		
PARIS	64.26	44.0	10 27	0				10 53 PCP	
GARCHY	64.62	45.7	10 29	0				10 53 PCP	
CLERMONT-FD.	64.66	47.4	10 55A	26					
BESANCON	66.61	45.7	10 40	-2					
WITTEVEEN	66.98	39.7	10 45	1					
BENSBERG	67.30	41.7	10 34	-12				11 23	
ISOLA	67.50	49.0	10 49	2				12 13	
MUNSTER	67.57	40.6	10 50	2					
STRASBOURG	67.76	44.2	10 50	1				11 14 PCP	
MONACO	67.80	49.5	10 42	-7					
ROSELEND	67.83	47.6	10 45	-5					
STUTTART	68.75	44.0	10 54	-1				11 20	
COLLEGE	69.13	333.3	10 56	-2			11 23		
GOTEBORG	69.93	34.3	11 2	0					
SKALSTUGAN	69.95	28.1	11 2	-1			11 28		
JENA	70.09	41.6	11 2	-1			11 27	13 57 PP	
HALLE	70.28	40.9	11 5	0				11 29 PCP	
COPENHAGEN	70.29	36.5	11 4K	-1	20 12 5				
FLORENCE X.	70.56	49.2	11 10	4					
PADOVA	70.81	47.4						11 30	
COLLMBERG	70.95	41.1	11 8	-1				11 33	
KASPERSKE H.	71.54	43.3	11 12K	0				13 25	
ROME	71.69	51.0	11 14	1	20 57 34		11 38	21 33	
PRUHONICE	72.07	42.4	11 16K	1			11 40	12 18	
TRIESTE	72.09	47.0	11 16	1				11 40	
TROMSOE	72.36	21.5	11 16	-1			11 42		
LJUBLJANA	72.57	46.5							
UPPSALA	72.71	31.8	11 19K	0			11 44		
KIRUNA	73.07	23.4	11 21K	0	20 43 4		11 47		
VIENNA-H.	73.49	44.0	11 25	1				11 48	
BRATISLAVA	73.99	44.0	11 28K	2			11 52		
RACIBORZ	74.39	41.9	11 30	1				11 42 PCP	
SODANKYLA	75.49	23.5	11 35	0				12 1	
NURMIJARVI	76.07	30.6	11 39	1					
KAJAANI	76.66	26.7	11 44	2				12 10	
KHEYS	77.79	7.7						12 13	
APATITY	77.97	22.6	11 48	-1	21 36 4				
ARGENTINE I.	83.17	178.1	12 15	-1					
MOSCOW	84.07	33.1	12 21	0	22 31 -4				
BANGUI	86.14	86.7	12 31	0			13 8		
HELWAN	89.50	58.8	12 49	2				13 16	
SVERDLOVSK	94.21	25.2						13 11	
MATUSIRO	119.98	335.1	18 39	0					
MAWSON	121.84	160.3	18 42A	-1				19 21	
SHILLONG	132.65	24.1	19 4	1				22 18	
BRISBANE	140.77	248.7	19 13	-5					
PORT MORESBY	144.15	279.1	19 24	0					
CHARTERS TS.	146.91	260.9	19 31	2				23 45	
ADELAIDE	150.39	230.0	19 41K	7					

AUGUST 19 16.H 1.M 27.S EPICENTRE -11.40 -70.68 DEPTH= 610.KM

A= 0.32433 B=-0.92535 C=-0.19632 D=-0.9437 E=-0.3308
G=-0.0649 H= 0.1853 K=-0.9805 HT= 6.4

DEPTH OF FOCUS= 0.091R

SE= 1.80

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S		
LA PAZ	5.65	154.2	1	38A	-1	2	55	-3				
ANTOFAGASTA	12.24	178.9	3	29	48	5	10	20				
CHINCHINA	16.98	342.9	3	28	2	6	16	4				
CARACAS	22.07	9.9	4	13K	0	7	38	2				
TRINIDAD	23.77	23.2	4	29	1							

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1961

PAGE 800

GRENADA	24.93	21.2	4 39	1					
ST. VINCENT	26.13	21.2	4 48K	-1					
SAN JUAN	29.93	8.7	6 50	89				8 11	
PORT STANLEY	41.52	168.0	6 58	1					
FAYETTEVILLE	52.18	335.9	8 15K	-2				9 18	PCP
WICHITA MTS.	52.95	331.1	8 21K	-1	15	6	-1	10 10	9 21
ARGENTINE I.	53.96	176.7	7 54	-35					PCP
SHAWINIGAN	57.71	358.3	8 55A	0					
TUCSON TELE.	57.93	320.0	8 57	0				10 49	9 41
TUCSON	57.94	319.9	8 56	-1				10 49	
GLEN CANYON	61.58	323.4	9 21	0				11 16	
RAPID CITY	62.63	334.1	9 27	0				11 21	
BOULDER CITY	62.88	320.6	9 31	2				11 27	
FLAMING GRGE	63.15	327.9	9 30	-1				11 24	10 20
PASADENA	63.91	317.1	9 36	0				10 4	
SALT LAKE C.	64.35	326.3	9 38	0					
WOODY	65.28	318.1	11 40	116					
EUREKA	65.82	322.9	9 48	0				11 39	12 17
LICK	68.05	318.1	10 2K	1					PP
RENO	68.18	321.0	9 33	-29					11 59
BERKELEY	68.76	318.3	10 6	1					
MINERAL	69.77	320.8	10 10K	-1					
SHASTA	70.46	320.7	10 14K	-1					
HUNGRY HORSE	70.77	331.0	10 17	0				12 14	
CORVALLIS	73.25	323.6	10 22	-9					
BANFF	73.44	332.4	10 33	1					
PENTICTON	74.16	329.1	10 37K	1					12 28
VICTORIA	75.64	326.9	10 45K	0					
SOUTH POLE	78.68	180.0	11 1	0					
SCOTT BASE	85.41	190.3	11 35A	0					
RESOLUTE	87.22	353.7	11 44	1					
CAPE HALLETT	87.64	195.5	11 45	0					
BANGUI	90.17	85.6	11 56	-1					
MAWSON	94.45	163.8	12 16K	-1					
COLLEGE	94.84	335.3	12 18	0				14 24	
COLLMBERG	94.88	38.8	12 20	2					
ADELAIDE	126.12	209.9	17 55A	1					
CHARTERS TS.	132.03	229.5	18 7	2					20 38
RABAU	134.64	252.4							20 29
QUETTA	136.51	58.0	18 17K	4				20 55	
MATUSIRO	143.88	318.7	18 27K	0					
NEW DELHI	145.47	55.6	18 40K	10					20 44
SHILLONG	158.30	47.1	18 50K	2					
LEMBANG	161.81	174.6							19 44

AUGUST 19 20.H 26.M 22.S EPICENTRE 2.34 97.15 DEPTH= 45.KM

A=-0.12443 B= 0.99140 C= 0.04062 D= 0.9922 E= 0.1245
G=-0.0051 H= 0.0403 K=-0.9992 HT= 7.2

DEPTH OF FOCUS= 0.002R

SE= 2.00

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
MEDAN	1.96	51.1	0	35	3							
LEMBANG	13.86	131.2	3	14A	-2					8	5	
VISHAKHAPTM	20.46	319.2	4	41A	5	8	27	9		4	59	
KUNMING	23.28	12.9	5	4	-1	9	10	0				
SHILLONG	23.65	348.0	5	7	-1							
TOCKLAI	24.37	354.8								9	15	
CHATRA	26.16	339.4	5	31A	-1							
LHASA	27.76	348.5	5	48	1	10	25	0				
NEW DELHI	32.29	325.8	6	23A	-4							
LANCHOW	34.10	9.7	6	39	-4	11	59	-5				
DARWIN	36.51	114.4	7	4	1							
MUNDARING	38.62	153.6	7	23	2							
WARSAK DAM	39.54	325.7	7	28	0							
QUETTA	39.82	317.1	7	31K	0					16	30	
PEKING	41.29	22.3	7	43	0	13	52	-2			SS	
ANDI JAN	44.31	332.9	8	8	1							
STALINABAD	44.41	327.8	8	8	0	14	36	-3				
FRUNSE	45.05	336.5	8	14A	1							
TASHKENT	46.21	330.8	8	23	0	15	1	-4				
SEMI PALATNSK	49.98	345.9	8	51A	-1	15	58	0				
MATUSIRO	50.89	43.0				16	22	11			19 50	

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1961

PAGE 801

CHARTERS TS.	53.06	117.3	9 16	1	16 53	13	
ADELAIDE	53.79	137.5	9 21	1			
TIFLIS	61.07	317.4	10 11	-1			
YAKUTSK	64.34	16.4	10 30	-4	19 3	-4	
HELWAN	67.94	301.2	10 55	-1			23 54
LWIRO	68.49	266.7					22 47
SIMFEROPOL	69.49	317.5	11 6	0			
BROKEN HILL	70.01	253.8	11 9	0			
BULAWAYO	70.76	247.9	11 14	0			
MOSCOW	71.33	329.0	11 15	-2			
ISTANBUL UN.	72.08	312.4	11 21	-1			
MAWSON	73.80	193.0	11 32	0			11 56
KIMBERLEY	75.75	239.7	11 42K	-1			
BANGUI	78.40	274.0	11 59	1	12 7		
KAJAANI	79.01	335.2	12 2	1			
NURMI JARVI	79.40	331.3	12 2	-1			
KHEYS	80.37	354.0	11 8	-60			
SODANKYLA	80.42	338.3	12 8	-1			
BRATI SLAVA	81.62	318.2	12 15	0			
VIENNA-H.	82.12	318.2	12 18	0			
KARAPIRO	82.29	128.6	12 32	14			
CHATEAU	82.49	129.9	12 20	1			
UPPSALA	82.72	330.0	12 21	0			
KIRUNA	82.84	338.1	12 21	0			
LJUBLJANA	83.20	315.9	12 23K	0			
TROMSOE	83.72	339.8	12 24	-2			
KASPERSKE H.	84.03	319.0	12 27	0			13 4
COLLMBERG	84.52	321.1	12 30	0			13 9
GOTEBORG	85.45	327.5	12 34	0			
SKALSTUGAN	85.63	333.5	12 34	-1			
STUTTGART	86.85	318.5	12 41	0			
CAPE HALLETT	87.12	163.0	12 44	2			
ROSELEND	88.01	315.3	12 51	4			
SCOTT BASE	88.05	168.5	12 48	1			
BENSBERG	88.19	320.7	12 46	-2			
GARCHY	91.07	317.2	13 2	1			
PARIS	91.33	318.8	13 4	2			
SOUTH POLE	92.33	180.0	12 58	-9			
HUNGRY HORSE	122.68	24.2	18 52	1			
EUREKA	128.46	32.7	19 5	3			22 16 PP
WOODY	129.36	38.2	19 5	1			
RAPID CITY	130.32	19.2	19 8	2			
FLAMING GRGE	130.60	26.5	19 7	1			
BOULDER CITY	131.58	35.1	19 14	6			22 35 PP
PALISADES	136.09	350.2					40 7 SS
TUCSON	136.56	35.3					22 50 PP
WICHITA MTS.	140.28	20.5	19 18	-6			22 21 PP

AUGUST 20 5.H 4.M 14.5 EPICENTRE -17.96-178.50 DEPTH= 538.KM

A=-0.95156 B=-0.02489 C=-0.30646 D=-0.0262 E= 0.9997
G= 0.3064 H= 0.0080 K=-0.9519 HT= 5.1

DEPTH OF FOCUS= 0.080R

SE= 2.02

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
SUVA	2.93	265.8	1	16	2	2	21	8				
AFIAMALU	7.62	59.0	1	54K	-1	3	28	2				
RAOUL ISLAND	11.25	177.4	2	31	-1	4	26	-7				
PORT VILA	12.55	269.0	2	45	0	5	12	15				
NOUMEA	14.78	250.5	3	7K	0	5	47	9				
KOUMAC	16.46	258.2	3	24K	0	6	13	5				
ONERAHI	18.83	198.2	3	50	3							
CHATEAU	21.79	192.6	4	13	-1							
TONGARIRO	21.79	192.6	4	13	-1							
HONIARA	22.57	289.2	4	20	-1							
WELLINGTON	23.95	192.6	4	32	-2	8	11	-2			14 31	SCS
KAIMATA	25.94	197.2	4	50	-1	8	47	3			14 34	SCS
GEBBIES PASS	26.73	194.4	4	56	-2	8	56	-1			14 43	SCS
BRISBANE	28.05	245.3	5	8	-2	9	14	-3				
ROXBURGH	29.26	197.7									14 58	SCS
RIVERVIEW	31.39	233.8	5	38K	0	10	8	-1	7 3		15 10	SCS
RABAU	31.79	292.0	5	39	-3						15 10	
CHARTERS TS.	33.35	260.6	5	54	-1	10	31	-8				

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1961		PAGE 802											
CANBERRA	33.60	232.6	5	57K	0	10	42	-1			8	12	PPP
PORT MORESBY	34.39	279.7	6	3	-1	10	54	-1			8	25	PCP
MOORLANDS	37.99	222.7	6	33	0				8	11			
FORT NELSON	38.13	221.9	6	34K	0						8	37	PCP
TARRALEAH	38.40	223.3	6	38K	2						8	38	PCP
MACQUARIE I.	40.38	200.2	6	52	0								
ADELAIDE	41.53	237.3	7	4K	2	12	26	-13			8	52	PP
HONOLULU	43.84	28.0	7	20	0	13	17	5			10	4	
KIPAPA	43.98	28.0	7	21	0								
GUAM	47.85	308.3	7	52	1								
CAPE HALLETT	54.75	184.2	8	42A	1	15	42	2	10	31	11	30	PP
MUNDARING	60.02	243.0	9	15	-2								
SCOTT BASE	60.36	183.6	9	20A	1	16	58	6	11	13	11	52	PP
MANILA	67.81	294.6	10	6	0								
MATUSIRO	67.89	323.4	10	4A	-2	18	21	-2			23	4	SS
ABUYAMA	68.28	320.5	10	7A	-2								
HWALIEN	71.75	303.6	10	31	2	19	7	1					
PETROPAVLOVK	73.40	345.8	10	36	-3				12	32			
ZO-SE	75.71	309.7	10	51A	-1	19	46	-3			13	48	*SP
VLAODIVOSTOK	75.93	324.9	10	52	-1	19	53	1					
BRANNER	76.42	43.0	10	56	1						12	59	
SAN FRANCISCO	76.45	42.5	10	55	-1						12	56	
VINEYARD	76.56	43.9	10	57A	1								
BERKELEY	76.63	42.6	10	56A	-1	20	3	4	12	57			
LICK	76.72	43.3	10	57A	0						12	58	
UKIAH	76.76	41.1	11	0	3						13	0	
PASADENA	77.32	47.6	11	2A	2	20	8	2	13	0	13	59	*SP
FRESNO	77.62	44.6	11	2	0								
NANKING	77.96	309.5	11	5A	1	20	15	2					
CANTON	78.08	299.1	11	6A	2	20	17	3					
SHASTA	78.20	40.1	11	5A	0				13	7			
MINERAL	78.49	40.8	11	16A	9				13	8			
RENO	79.15	42.3	10	42A	-28						12	44	
CORVALLIS	79.99	36.6	11	8A	-6								51
CHANGCHUN	80.10	322.4	11	13A	-2	20	37	2	13	18	14	14	*SP
BOULDER CITY	80.61	47.5	11	19	1								
MAGADAN	81.19	344.7	11	19	-2	20	43	-3					
TUCSON	81.74	52.4	11	25	2	20	57	5	13	26	14	22	PP
TUCSON TELE.	81.86	52.3	11	25	1								
ALBERNI	82.08	32.2	11	24	-1								
VICTORIA	82.34	33.4	11	25	-1								
GLEN CANYON	83.37	47.9	11	32	0	21	0	-8	13	34			
ARGENTINE I.	83.48	157.3	11	33	1	21	10	1	13	35			
PEKING	83.76	315.4	11	34A	1	21	11	0			14	34	*SP
MAWSON	83.78	199.8	11	32	-2	21	9	-3	13	33	21	3	SKS
PENTICTON	84.83	34.2	11	38A	-1								
SALT LAKE C.	85.00	44.4	11	40	0								
COLLEGE	85.84	12.6	11	41	-3	21	9	-22	13	45			
TACUBAYA	86.24	68.4									11	50	
SIAN	86.31	307.6	11	46	0	21	41	6	13	55	14	49	*SP
FLAMING GRGE	86.72	45.2	11	48	0				13	52	15	19	
BUTTE	87.09	39.6	11	49	-1	21	29	-14					
HUNGRY HORSE	87.40	37.1	11	50	-1	21	27	-18					
KUNMING	87.77	297.2	11	55A	2	21	52	3					
BOZEMAN	87.85	40.4	11	53	0								
BANFF	88.03	34.1	11	54A	0								
PAOTOW	88.17	313.7	11	57A	2	22	0	8	14	0	14	56	*SP
CHENGTU	88.73	302.7	11	59	2	22	0	3	14	10	15	4	*SP
YAKUTSK	89.57	338.3	12	8	7								
LANCHOW	90.85	307.6	12	8A	1	22	20	4					
WICHITA MTS.	92.09	54.2	12	12A	-1	21	54	-33	14	23	25	53	PPS
RAPID CITY	92.20	44.2	12	12	-1						16	1	PP
FAYETTEVILLE	95.93	54.1	12	30K	0						22	17	SKKS
SHILLONG	97.24	294.4									14	36	
NEW DELHI	110.65	294.4	17	29K	-2								
PALISADES	112.45	52.4	13	45	-230	25	25	116	15	37	18	31	PP
KHEYS	112.85	351.5	17	37	2								
SHAWINIGAN	113.57	46.5	17	38	1								
STALINABAD	118.59	304.6	17	5	-42						19	25	PP
QUETTA	119.72	294.9	17	51A	2						19	21	PP
SVERDLOVSK	121.63	326.3	17	54	1								
APATITY	126.39	345.4	18	2	0								
TROMSOE	127.23	352.4	18	1	-2								
SODANKYLA	128.03	348.0	18	5	0						20	33	SKP
KIMBERLEY	128.40	206.3	18	7A	1								
KIRUNA	128.70	350.9	17	55	-11						20	37	SKP
PRETORIA	129.39	211.6									20	38	
KAJAANI	130.59	345.2	18	10	0						20	31	SKP

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1961					PAGE 803				
TEHERAN	132.62	302.3	18 13	-1					
PULKOVO	133.34	340.4	18 15	0	20 45				
MOSCOW	133.44	332.7	18 15	0	20 45				
BULAWAYO	133.73	216.3	18 0	-16			19 59	PP	
SKALSTUGAN	133.82	353.3	18 4	-12			20 54	SKP	
NURMIJARVI	134.37	344.2	18 17	0			20 57	SKP	
TIFLIS	136.20	312.1	18 21	1			21 57	PKS	
UPPSALA	136.56	348.2	18 10K	-11					
BROKEN HILL	138.23	221.3	18 18	-6			21 8	PP	
GOTEBORG	139.56	351.3	18 18	-8			21 37	PP	
COPENHAGEN	141.43	350.1	18 26A	-5					
SIMFEROPOL	141.73	321.8	18 27	-4			22 11	PKS	
DURHAM	143.18	3.0	18 28K	-6					
LWOW	143.42	335.4	17 31A	-63					
KRAKOW	144.73	339.3	18 37A	1			19 28		
CHORZOW	144.83	340.4	18 35	-1			19 23		
WITTEVEEN	144.98	354.5	18 37	1					
RACIBORZ	145.26	341.0	18 37	0			20 32		
KSARA	145.47	304.0	18 39	2	20 52		22 6	*SPKP	
COLLMBERG	145.50	347.2	18 37K	0	20 48		22 8	PP	
HALLE	145.52	348.4	18 37	0			22 0	PP	
MUNSTER	145.72	353.3	18 40	2					
DE BILT	145.81	356.0	18 42	4					
JENA	146.14	348.5	18 37	-1	20 50		22 3	PP	
PRUHONICE	146.38	344.7	18 39A	1	20 48		22 5	PP	
LWIRO	146.43	236.0	18 41	3					
KEW	146.53	2.1	19 41A	62	20 51				
BENSBERG	146.77	353.5	18 39	0	20 47				
CHEB	146.78	347.2	18 44	5			19 25		
ISTANBUL KA.	146.99	320.0	18 40	1	20 54		22 9	PP	
ISTANBUL UN.	147.05	320.1	18 40	1	21 9				
BRATISLAVA	147.29	340.5	18 41	2	19 56				
KASPERSKE H.	147.40	345.2	18 40K	0			21 56	PP	
VIENNA-H.	147.44	341.4	18 40	0			18 46	PKP2	
HEIDELBERG	148.10	351.1	18 42	1					
STUTTGART	148.62	350.1	18 42	0			21 51	*SPKP	
BELGRADE	148.87	333.4	18 50A	8			20 56		
TUBINGEN	148.89	350.2	18 44	2					
STRASBOURG	149.03	351.9	18 42	0	20 57		18 49	PKP2	
PONTA DELGDA	149.11	44.9	18 46K	4					
SOFIA	149.14	327.7	18 42	0					
PARIS	149.22	358.7	18 51	9	21 5		18 57	PKP2	
FOLINIERE	149.23	2.6	18 43	1	20 47				
EBINGEN	149.25	350.2	18 44	2					
RAVENSBURG	149.52	349.2	18 44	1					
LJUBLJANA	149.98	341.7	18 46	2	21 4		18 58	PKP2	
BASLE	150.09	351.7	18 44	0			19 17		
CHUR	150.44	348.8	18 46	2					
BESANCON	150.56	353.8	18 46	1			18 54	PKP2	
TRIESTE	150.56	342.4					18 58	PKP2	
NEUCHATEL	150.69	352.4	18 48	3					
GARCHY	150.73	357.8	18 53	8	21 9		22 38	PP	
PADOVA	151.29	344.7	19 7	21					
ATHENS	152.15	320.2	18 47	0					
CLERMONT-FD.	152.24	357.6	18 48	1			18 56	PKP2	
FLORENCE X.	152.97	344.3	18 41	-7			18 50	PKP2	
ISOLA	153.44	351.0	18 51	2			23 2	PP	
MONACO	153.83	350.2	18 50	1			18 59	PKP2	
ROME	154.36	340.8			21 1		19 19	PKP2	
SERRA PILAR	155.33	18.5	18 51K	0	24 58	-7	22 59	PP	
COIMBRA	156.23	19.1	18 55K	3					
LISBON	157.33	22.0	20 44K	110					
TOLEDO	157.63	11.3	18 58	4			23 10	PP	
BANGUI	158.49	233.2	18 58	3			23 17	PP	

AUGUST 21 2.H 6.M 43.S EPICENTRE -22.59-179.48 DEPTH= 493.KM

A=-0.92417 B=-0.00836 C=-0.38189 D=-0.0091 E= 1.0000
G= 0.3819 H= 0.0035 K=-0.9242 HT= 4.0

DEPTH OF FOCUS= 0.073R

SE= 2.51

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

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1961

PAGE 805

RIVERVIEW	34.86	236.3	6 45	-2				11 21
RABAU	35.81	288.5	6 55	0				9 20
CANBERRA	37.00	234.8	7 3K	-2				7 29 *SP
CHARTERS TS.	37.54	260.3	7 9	-1	12 52	-2		
PORT MORESBY	38.61	277.5	7 17	-2	13 9	-1	7 37	8 57 PP
MACQUARIE I.	41.92	203.4	7 45	-1				
ADELAIDE	45.10	238.4	8 9K	-3				9 51 PCP
CAPE HALLETT	55.07	185.8	9 28	0	17 10	6		
SCOTT BASE	60.61	184.6	10 6A	-1	18 22	6	10 25	12 38 PP
MUNDARING	63.79	242.7	10 25	-3				
MATUSIRO	70.55	320.8	11 9K	-1	20 15	-2		20 50
SOUTH POLE	72.10	180.0	11 19	0				
STA. CRUZ C.	73.47	41.2	11 28K	1				
SAN FRANCISCO	73.67	40.3	11 28	-1				
VINEYARD	73.70	41.7	11 30K	1				
BERKELEY	73.85	40.3	11 30K	0	20 59	4		
LICK	73.90	41.1	11 31A	1				12 45
CONCORD	74.03	40.3	11 32K	1				
UKIAH	74.06	38.8	11 17	-14				
PASADENA	74.26	45.5	11 31A	-1	22 5	65	11 52	
PETROPAVLOVK	74.58	343.3	11 33	-1	21 5	2		
FRESNO	74.72	42.5	11 35	0				
MIRNY	74.82	204.5	11 34	-1	21 6	0		
Y.-SAKHLINSK	75.52	331.0	11 38	-1				
SHASTA	75.56	38.0	11 40	1				
MINERAL	75.80	38.7	11 40A	-1				12 7
RENO	76.38	40.2	11 19	-25				
LEMBANG	76.87	267.0	11 46	-1				
UGLEGORSK	77.33	332.1	11 49	-1	21 39	6		
CORVALLIS	77.55	34.5	12 0	9				
BOULDER CITY	77.56	45.5	11 51	0				
TUCSON	78.44	50.5	11 57	1			12 15	
VLADIVOSTOK	78.49	322.8	11 56	0	21 45	-1		
TUCSON TELE.	78.57	50.5	11 57	1			12 16	
EUREKA	78.75	42.0	11 57	0			12 17	14 48 PP
ZO-SE	79.06	307.8	11 57	-2	21 52	0		
VICTORIA	80.10	31.4	12 5	0				
GLEN CANYON	80.29	46.1	12 7	1				
HONG KONG	80.84	297.0	12 9	1	22 11	1		
NANKING	81.32	307.6	12 11	0	22 27	12		22 29 SKS
ARGENTINE I.	81.76	156.4	12 12	-1				
CANTON	81.85	297.4	12 15	1	22 38	17		22 32 SKS
SALT LAKE C.	82.10	42.7	12 15	0				
TACUBAYA	82.32	66.8	12 26	10				
MAGADAN	82.43	342.8	12 15	-2	22 26	-1		
CHANGCHUN	82.80	320.5	12 19K	0	22 34	4		
FLAMING GRGE	83.78	43.5	12 24	0			12 43	15 20 PP
BUTTE	84.47	38.0	12 27	0	22 49	2		
COLLEGE	85.03	10.9	12 29	-1				
MAWSON	85.14	198.8	12 29K	-1			12 47	13 11
BOZEMAN	85.18	38.8	12 32	1				
PEKING	86.82	313.8	12 39	0	23 22	12		23 1 SKS
WICHITA MTS.	88.69	52.9	12 47	-1	23 14	-13		30 29 PKKP
RAPID CITY	89.30	42.9	12 51	1				
SIAN	89.75	306.2	12 54K	1	23 48	11		23 21 SKS
YAKUTSK	91.24	336.9	12 59	-1	23 21	-29		
KUNMING	91.61	295.8	13 3K	2	24 6	12		23 31 SKS
CHENG TU	92.37	301.4	13 6	1	24 7	7		23 34 SKS
FAYETTEVILLE	92.54	52.9	13 6K	0	24 5	3	13 26	
LANCHOW	94.28	306.4	13 15	2				
HUANCAYO	94.42	104.1	13 17	3				
IRKUTSK	99.06	322.0						17 33 PP
PALISADES	109.11	52.0			25 32	39		28 36 PS
CARACAS	109.32	84.9			24 57	3		19 21 PP
WARSAK DAM	119.86	299.3	18 48	5				
STALINABAD	122.13	304.6	18 49	1				
SAMARKAND	123.46	306.0	18 51	1				
QUETTA	123.61	294.6	18 52	1				
KAJAANI	131.65	347.4	19 5	-1				22 28 PKS
MOSCOW	135.37	335.0	19 35	22				
NURMIJARVI	135.49	346.9	19 14K	1				22 47 PKS
BULAWAYO	136.06	211.4	19 15A	1				
GORIS	139.09	310.1	19 25	5				
TIFLIS	139.35	313.9	19 23	3				
GOTEBORG	140.12	355.0	19 23	1				
BROKEN HILL	140.85	216.0	19 18	-5				
DURHAM	142.85	7.2	19 20K	-6				
SIMFEROPOL	144.31	325.0	19 30	1				

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1961					PAGE 806				
LWOW	145.10	339.5	19 30K	0					19 50
WITTEVEEN	145.26	359.3	20 1	30					
KISHINEV	145.50	332.0	19 32	1					
PONTA DELGDA	146.05	48.2	19 36	4					
MUNSTER	146.09	358.2	19 35	3					
KRAKOW	146.13	343.8	19 35	3					22 55
CHORZOW	146.15	345.0	19 33	1					20 9
KEW	146.24	7.1	19 35	3					
HALLE	146.25	353.3	19 34	2		19 53			
COLLMBERG	146.32	352.0	19 34K	2		19 53		23 1	PKS
RACIBORZ	146.53	345.7	19 35	2				20 37	
SKALNATE PL.	146.83	342.8	19 23	-10				19 37	PKP2
JENA	146.85	353.5	19 35	2		19 57		22 49	PP
BENSBERG	147.11	358.6	19 37	3		19 55		20 41	
PRUHONICE	147.37	349.7	19 38	4		19 58		23 1	PP
CHEB	147.60	352.3	19 42	8					
KASPERSKE H.	148.35	350.5	19 37	1				23 21	
BRATISLAVA	148.58	345.7	19 40	4				19 44	PKP2
HEIDELBERG	148.61	356.6	19 41	5				20 3	
VIENNA-H.	148.67	346.6	19 39	3				20 5	PKP2
FOLINIÈRE	148.87	8.3	19 39	2					
KSARA	148.98	306.3	19 42	5		20 3			
KARLSRUHE	149.02	356.9	19 43	6					
PARIS	149.15	4.5	19 47	10		20 15		20 4	PKP2
STUTTGART	149.20	355.7	19 38	1					
TUBINGEN	149.46	355.9	19 43	6					
STRASBOURG	149.47	357.6	19 44	7		20 7		20 58	
ISTANBUL KA.	149.65	324.1	19 43	5				23 26	PP
ISTANBUL UN.	149.72	324.1	19 44	6					
EBINGEN	149.81	356.0	19 44	6					
LWIRO	149.82	230.4	19 45K	7					
RAVENSBURG	150.16	355.1	19 43	5					
BASLE	150.53	357.8	19 38	-1					
BELGRADE	150.65	338.7	19 46K	7				21 13	
GARCHY	150.71	4.0	19 45	6				23 27	PP
BESANCON	150.84	360.0	19 47	8		20 9			
LJUBLJANA	151.15	347.6	19 42	2		20 10			
SOPIA	151.31	332.7	19 47	7				23 6	PP
TRIESTE	151.69	348.5	19 43	2				20 12	PKP2
CLERMONT-FD.	152.22	4.3	19 46	4					
PADOVA	152.24	351.1	19 52	10				20 33	PKP2
ROSELEND	152.57	357.5						19 48	
SERRA PILAR	153.78	25.5	19 40	-4				20 3	PKP2
ISOLA	153.90	358.2	19 54	10				23 40	PP
FLORENCE X.	153.93	351.3	19 50	6		20 5			
HELWAN	154.05	301.8	19 46	2				23 43	PP
MONACO	154.33	357.6	19 59	15					
BAGNERES	154.54	10.0	19 53	8					
COIMBRA	154.63	26.4	19 48	3				20 10	PKP2
LISBON	155.52	29.5	20 16	30					
ROME	155.55	348.2	19 51A	5				25 22	
BANGUI	161.65	223.9	19 55	2		20 10			

AUGUST 21 17.H 0.M 41.S EPICENTRE 41.00 139.42 DEPTH= 55.KM

A=-0.57480 B= 0.49236 C= 0.65359 D= 0.6505 E= 0.7595
G=-0.4964 H= 0.4252 K=-0.7568 HT= -2.1

DEPTH OF FOCUS= 0.004R

SE= 3.02

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
AOMORI	1.05	99.7	0	16K	-3	0	29	-5				
HAKODATE	1.29	51.0	0	20K	-3	0	39	0				
AKITA	1.38	157.7	0	20A	-4	0	37	-5				
MORI	1.40	37.9	0	23	-1	0	42	0				
HATINOHE	1.67	105.8	0	24K	-4	0	44	-5				
MURORAN	1.76	41.2	0	27	-2	0	49	-2				
MORIOKA	1.87	133.6	0	27K	-3	0	50	-3				
SUTTSU	1.89	18.4	0	29	-2	0	52	-2				
MIZUSAWA	2.29	144.4	0	32	-4	1	5	1				
TOMAKOMAI	2.29	44.1	0	44	8	1	12	8				
MIYAKO	2.37	123.9	0	35	-3	1	6	0				
SAPPORO	2.52	34.2	0	39	-1	1	15	6				

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1961

PAGE 807

URAKAWA	2.77	64.5	0 42	-1	1 11	-5	
YAMAGATA	2.84	165.0	0 40A	-4	1 12	-6	
ISINOMAKI	2.96	149.7	0 42	-4	1 17	-4	
SENDAI	2.96	156.8	0 42	-4	1 16	-5	
NIIGATA	3.09	185.4	0 44	-4	1 21	-3	
AIKAWA	3.11	197.2	0 44	-4	1 15	-9	
HIROO	3.19	65.2	0 46	-3			
HUKUSIMA	3.35	165.6	0 48	-3			
RUMOE	3.36	28.2	0 57	6	1 42	11	
OBHIRO	3.41	54.6	0 53	1			
ASAHI GAWA	3.53	37.3	0 59	5			
SHIRAKAWA	3.93	170.6	1 1	2			
TAKADA	4.00	193.5	0 55	-5	1 40	-7	
WAZIMA	4.11	209.2	1 4	2	1 42	-8	
KUSIRO	4.21	60.4	1 3	0	2 0	8	
ONAHAMA	4.21	163.6	1 3	0	1 52	0	
NAGANO	4.43	192.8	1 5	-1	2 13	16	
UTUNOMIYA	4.46	175.3	1 11	4	2 26	28	
MATUSIRO	4.56	192.3	1 4A	-4	1 54	-7	
MAEBASI	4.61	183.5	1 5	-4	2 24	22	
TOYAMA	4.63	202.6	1 12	3	1 55	-8	
MI TO	4.69	169.6	1 10K	0	2 26	22	
WAKKANAI	4.71	19.8	1 15	5	2 22	17	
OIWAKE	4.72	188.6	1 16	6	2 21	16	
KAKIOKA	4.80	172.6	1 10	-2			
TUKUBASAN	4.81	173.4	1 7K	-5	2 7	0	2 45
KUMAGAYA	4.85	180.4	1 15	3	2 31	23	
MATUMOTO	4.88	193.9	1 10	-3	2 5	-4	
KANAZAWA	4.96	206.7	1 9	-5			
TI TIBU	5.02	183.1	1 17	2			
NEMURO	5.14	61.1	1 18	2			2 7
TAKAYAMA	5.14	200.0	1 16	0			
HONGO	5.29	176.9	1 30	12			
TOKYO C.M.O.	5.32	177.1	1 18	-1	2 20	0	
KOHU	5.37	187.5	1 22	2			
TYOSI	5.39	167.5	1 17	-3	2 21	-1	
HUNATU	5.52	185.5	1 22	0	2 30	5	
HUKUI	5.54	207.8	1 25	3			
YOKOHAMA	5.57	178.0	1 24	2	2 30	4	
IIDA	5.62	193.4	1 23	0	2 52	25	
MISIMA	5.89	183.7	1 30	3			
AJIRO	5.95	182.5	1 26	-2	2 25	-10	
TSURUGA	5.96	207.3	1 27	-1			
GIHU	5.97	201.3	1 30	2			
VLADIVOSTOK	5.98	293.2	1 23	-5			2 29
SHIZUOKA	6.08	187.9	1 29	0	3 7	28	
MERA	6.08	176.8	1 45	16			
NAGOYA	6.14	199.1	1 35	5	2 49	9	
OSIMA	6.22	180.3	1 32	1			
HIKONE	6.24	204.6	1 32	0	3 18	35	
OMAE SAKI	6.46	188.8	1 43	8			
Y.-SAKHLINSK	6.47	20.5	1 36	1			2 55
TOYOOKA	6.55	215.0	1 33	-3	2 41	-9	
KAMEYAMA	6.57	201.7	1 36	0	2 55	4	
KYOTO	6.64	207.1	1 37	0	3 32	39	
ABUYAMA	6.84	207.6	1 39A	-1			
TOTTORI	6.86	218.6	1 34	-6			
NARA	6.92	205.3	1 52	11			
OSAKA	7.05	207.1	1 51	8	3 31	28	
OWASE	7.38	201.3	1 40	-8			
SUMOTO	7.55	209.7	1 52	2	3 45	30	4 50
TAKAMATU	7.91	214.2	1 53	-2			
UGLEGORSK	8.29	12.2	2 3	3			3 49
HIROSIMA	8.63	222.1	2 8	3			
KOTI	8.79	214.1	2 10	3	4 52	66	
MATUYAMA	8.89	218.5	2 8	0	3 44	-4	4 40
SIMIDU	9.69	214.2	2 28	9	4 38	30	
OOITA	9.94	221.2	2 24	1			
HUKUOKA	10.33	227.0	2 35A	7	4 31	8	
CHANGCHUN	10.81	289.8	2 33	-2			
UNZENDAKE	11.04	224.5	2 38	0			
MIYAZAKI	11.11	217.9	2 45	6	5 49	67	
KAGOSIMA	11.82	220.0	2 49	1			3 12
YAKUSIMA	12.77	217.3	2 43	-18			
OKHA	12.77	9.5	3 3	2			
SEVERO-KUR.	15.09	44.6	3 35	4			
PEKING	17.70	274.5	4 4A	0	7 31	14	
PETROPAVLOVK	17.72	40.8	4 13	9	7 33	16	

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1961										PAGE 808	
ZO-SE	17.72	241.9	4	4A	0	7	27	10			
NANKING	18.80	248.2	4	16	-1	7	50	9			
MAGADAN	19.89	17.2	4	29	0						
YAKUTSK	21.85	347.7	4	45	-4						
PAOTOW	22.21	278.6	4	51	-2	9	1	12			
KYAKHTA	24.68	303.4	5	15A	-2						
SI AN	24.99	264.2	5	17	-3	9	47	10			
IRKUTSK	26.34	307.2	5	29	-4						
LANCHOW	28.15	271.5	5	47	-2						
HONG KONG	28.29	236.5	5	49	-1	10	15	-16			
CHENGTU	30.32	261.5				10	57	-6			
LHASA	40.60	269.5	7	35	-1						
SEMIPALATNSK	41.37	303.7	7	39	-3						
SHILLONG	42.10	263.7	7	44A	-4						
CHATRA	44.97	268.6	8	12A	1				9	53	
RABAU	46.47	162.3	8	23	0						
COLLEGE	46.62	34.1	8	25	1				8	57	
FRUNSE	47.17	294.8	8	27	-2				10	0	PCP
PORT MORESBY	50.66	170.1	8	54	-2				9	16	
TASHKENT	51.42	295.0	8	59	-2				16	16	PS
KHOROG	51.49	289.6	9	0	-2						
NEW DELHI	51.59	276.8	9	0A	-3				10	15	
WARSAK DAM	53.08	285.7	9	13	-1						
LEMBANG	55.84	219.2	9	33K	-1						
QUETTA	58.38	284.1	9	50A	-2				9	57	
RESOLUTE	59.16	14.6	9	55	-2						
ASHKABAD	60.45	296.2	10	5	-1						
SODANKYLA	60.71	335.9	10	7A	-1						
CHARTERS TS.	61.11	172.7	10	10	-1						
KAJAANI	62.35	332.5	10	17A	-2						
MOSCOW	63.16	321.6	10	23	-1						
PULKOVO	64.00	327.9	10	28	-2						
VICTORIA	64.82	46.8	10	35A	0						
NURMI JARVI	65.72	330.5	10	40A	-1						
TEHERAN	66.34	297.4	10	45	0						
PENTICTON	66.42	44.5	10	45A	0						
CORVALLIS	67.13	50.3	11	1	11						
BANFF	67.41	41.2	10	53A	1						
SKALSTUGAN	67.66	337.3	10	52A	-1				9	56	
UPPSALA	68.72	332.6	10	58A	-2				11	23	PCP
BRISBANE	69.17	167.3	11	3	0						
SHASTA	69.97	53.2	11	8	1						
MINERAL	70.66	53.1	11	11A	-1						
SIMFEROPOL	71.43	313.7	11	16A	0	20	34	5			
BERKELEY	71.77	55.5	11	19A	1						
BERGEN	72.19	338.0	11	20	-1						
BUTTE	72.20	44.1	11	21	0						
RENO	72.24	52.9	10	57	-24						
GOTEBORG	72.28	333.4	11	20	-1						
LICK	72.48	55.7	11	23	0						
BOZEMAN	73.23	43.6	11	28	1						
LWOW	73.28	322.3	11	27	0						
COPENHAGEN	73.69	331.9	11	29	-1						
FRESNO	73.99	55.1	11	32	1						
SIDA	74.04	349.8	11	33A	1						
REYKJAVIK	74.17	351.6	11	33A	1						
EUREKA	74.57	51.0	11	36	1						
KRAKOW	74.96	324.5	11	37	0						
NIEDZIKA	75.25	323.8	11	39A	0						
ADELAIDE	75.60	180.6	11	41A	0						
RACIBORZ	75.69	325.3	11	41A	0				12	31	
MUNDARING	75.71	200.2	11	40A	-1						
CANBERRA	76.46	172.0	11	46A	1						
PASADENA	76.69	56.3	11	47	0						
COLLMBERG	76.90	328.8	11	48A	0				14	37	PP
HALLE	77.15	329.4	11	49	0				13	25	
PRUHONICE	77.30	327.1	11	51A	1				14	43	PP
FLAMING GRGE	77.34	46.4	11	51	1						
BOULDER CITY	77.55	53.1	11	53	1						
BRATISLAVA	77.60	324.6	11	54	2				12	2	PCP
JENA	77.74	329.2	11	53	0				12	51	
VIENNA-H.	77.86	325.0	11	54	1						
WITTEVEEN	78.01	332.9	11	54	0						
CHEB	78.10	328.3	11	54	-1				12	27	
KASPERSKE H.	78.36	327.1	11	56A	0				14	52	
MUNSTER	78.38	331.9	11	57	1						
BELGRADE	78.56	320.6	11	57	0						
SOFIA	78.68	317.5	11	58	0						
GLEN CANYON	78.81	50.5	11	58	0						

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1961

PAGE 809

DURHAM	78.94	338.2	11 55	-4	
BENSBERG	79.37	331.6	12 1	-1	
HEIDELBERG	80.07	329.8	12 5	0	
LJUBLJANA	80.36	324.6	12 7A	0	
STUTTGART	80.37	329.1	12 7A	0	
KARLSRUHE	80.51	329.7	12 11	3	
TUBINGEN	80.64	329.1	12 9	1	
TRIESTE	81.01	324.8	12 9	-1	
STRASBOURG	81.10	329.8	12 11	0	
KEW	81.45	335.9	12 13	0	
BASLE	82.04	329.3	12 17A	1	
TUCSON TELE.	82.51	53.4	12 20	2	
PARIS	82.82	332.9	12 20	0	12 29 PCP
BESANCON	82.88	330.1	12 7	-13	
HELWAN	83.12	303.7	12 19	-2	
TARRALEAH	83.17	174.7	12 23A	2	
MOORLANDS	83.36	174.2	12 23A	1	
ROSELEND	83.70	328.2	12 26	2	
FOLINIERE	83.85	334.6	12 25	0	
FORT NELSON	83.86	174.1	12 25A	0	
GARCHY	83.93	331.8	12 25	0	12 41 PCP
ISOLA	85.01	327.8	12 31	0	12 40
KARAPIRO	85.22	152.1	12 34	2	
MONACO	85.23	327.3	12 31	-1	
TUAI	86.57	151.4	12 38	0	
WICHITA MTS.	87.69	44.4	12 45	1	
WELLINGTON	87.95	154.1	12 45	0	
SHAWINIGAN	88.23	21.6	12 47	1	
OTTAWA	88.41	23.9	12 47	0	
FAYETTEVILLE	88.88	40.7	12 50	1	
SCOTT BASE	119.76	173.6	18 44	0	20 9 PP
SOUTH POLE	130.81	180.0	19 5	0	
ARGENTINE I.	152.21	158.7	19 50	8	

AUGUST 22 B.H 59.M 32.S EPICENTRE -13.49 166.46 DEPTH= 79.KM

A=-0.94572 B= 0.22770 C=-0.23186 D= 0.2341 E= 0.9722
G= 0.2254 H=-0.0543 K=-0.9727 HT= 6.0

DEPTH OF FOCUS= 0.007R

SE= 1.39

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PORT VILA	4.58	157.2	1	9	1	2	3	2				
KOUMAC	7.33	196.2	1	44A	-2	3	5	-4				
NOUMEA	8.76	180.1	2	5	-1	3	40	-4				
SUVA	12.41	113.4	2	57	2							
RABAUL	16.86	301.9	3	55	3							
BRISBANE	18.83	220.7	4	14	-2	7	45	6				
PORT MORESBY	19.36	280.1	4	22	0	8	3	12				
CHARTERS TS.	20.41	248.5	4	30	-3	8	24	12				
AFIAMALU	21.14	93.7	4	41	1	8	33	7				
RIVERVIEW	24.57	211.9	5	14	0						9	55
KARAPIRO	25.64	163.2	5	22	-2							
CANBERRA	26.84	212.9	5	36	1							
MELBOURNE	30.87	214.4	6	12	1							
ADELAIDE	32.93	224.7	6	30	1							
MOORLANDS	33.32	206.4	6	33	1							
FORT NELSON	33.65	205.7	6	35	0							
DARWIN	34.73	267.7	6	46	2							
MUNDARING	49.40	239.4	8	43K	0							
PERTH	49.71	239.5									16	14
MATUSIRO	56.45	332.8	9	34A	-2	17	24	5				
LEMBANG	58.19	270.3	9	50K	2	17	52	10				
CAPE HALLETT	58.83	178.7	9	53	1	18	8	18				
ZO-SE	62.10	316.4	10	14	-1	18	39	7				
HONG KONG	62.39	304.2	10	14	-3						13	36
NANKING	64.30	315.8	10	28	-1	19	5	6				
SCOTT BASE	64.36	179.9	10	30A	0							
VLADIVOSTOK	64.62	332.6	10	31	0							
UGLEGORSK	65.93	342.7	10	39	-1							
PETROPAVLOVK	66.58	354.9	10	41	-3							
CHANGCHUN	68.28	329.2	10	54A	0	19	57	10				
PEKING	70.81	321.3	11	10	0	20	24	7				

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1961		PAGE 810									
MIRNY	71.14	203.9	11	12	0						
SIAN	72.39	312.8	11	20	1						
KUNMING	72.99	301.8	11	25	2	20	54	12			
CHENG TU	74.33	307.5	11	31	0	21	4	7			
SOUTH POLE	76.59	180.0	11	44	1						
LANCHOW	76.91	312.4	11	47A	2	21	35	10			
YAKUTSK	80.61	343.4	12	4	-1						
SHILLONG	82.31	298.5	12	15A	1						
MAWSON	82.73	202.1	12	16A	0				12	30	
BERKELEY	83.95	48.9	12	21	-2	23	55	77			
LICK	84.21	49.6	12	26A	2						
SHASTA	84.93	46.2	12	28	1						
COLLEGE	85.39	17.9	12	28	-2				12	51	
PASADENA	85.74	53.6	12	30	-1	22	52	-4			
CHATRA	86.71	298.4	12	37	1						
EUREKA	89.13	49.1	12	48	0				13	4	30 28 PKKP
PENTICTON	89.94	39.0	12	51	-1						
TUCSON	91.06	57.2	13	11	14						
WICHITA MTS.	101.57	56.9									27 3 PS
PALISADES	121.03	50.1									30 5 PS
NURMI JARVI	125.43	337.9	18	49	-3						
BULAWAYO	126.75	231.9	18	55	1						
SKALSTUGAN	126.81	345.9	18	55	0						
BROKEN HILL	130.00	237.8	18	32	-29						
COLLMBERG	136.62	335.9	19	16	3						21 58 PP
KASPERSKA H.	138.03	333.4	19	18	2						22 52
STUTTGART	140.09	336.4	19	21	2						
GARCHY	143.56	340.9	19	30	4						
ISOLA	144.71	334.0	19	29	1						
MONACO	144.90	333.2	19	28	0						
LUANDA	145.37	231.6	19	31A	2						21 26
BANGUI	147.01	257.1	19	35	4				20	3	
BAGNERES	148.25	340.8	19	39	6						20 11
TOLEDO	152.42	344.1	19	43	3						24 44
GRANADA	154.80	341.1									34 28 SKSP

AUGUST 23 4.H 12.M 39.S EPICENTRE 38.59 68.55 DEPTH= 41.KM

A= 0.28655 B= 0.72936 C= 0.62123 D= 0.9307 E=-0.3657
G= 0.2272 H= 0.5782 K=-0.7836 HT= -1.2

DEPTH OF FOCUS= 0.001R

SE= 2.51

	DELTA DEG.	AZ. DEG.	P			S			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S			
DUZHANBE	0.17	97.9											0	5	PG
KULYAB	1.17	125.9											0	22	PG
GARM	1.43	72.9											0	26	PG
SAMARKAND	1.63	311.8	0	29	2								0	50	S*
DZERGETAL	2.18	72.5	0	36	1								1	8	SG
TASHKENT	2.78	11.4	0	45	2	1	35	19					1	16	
FERGANA	3.07	53.5	0	50	3	1	26	3							
ANDI JAN	3.65	52.6	0	57	1	1	40	2					1	17	
TCHIMKENT	3.79	11.9	0	58	0								1	50	S*
WARSAK DAM	5.18	151.2	1	15	-2										
FRUNSE	6.26	45.5	1	32	0								2	43	S*
RYBACHE	6.97	54.1	1	43	1	3	2	1					2	7	
FABRICHNAYA	7.49	50.3	1	49	-1										
ALMATA	7.89	51.0	1	56	1								3	49	S*
ASHKABAD	8.05	268.6	1	53	-4								3	36	
PRZHEVALSK	8.44	59.5	2	2	-1								2	45	
LAHORE	8.47	144.3	2	1	-2										
QUETTA	8.50	189.4	2	2	-2	3	35	-4					2	11	*SP
KURMENTY	8.59	56.1	2	4	-1										
KIZYL-ARVAT	9.60	277.4	2	15	-4	4	3	-3					5	13	
DEHRA DUN	11.38	133.7	2	58	15	4	45	-5					4	57	SS
KARACHI	13.78	185.8	3	12	-3										
TEHERAN	13.98	263.5	3	17	-1										
SEMIPALATNSK	14.43	31.4	3	19	-5										
SHEMAKHA	15.49	283.8	3	42	5								6	51	
MAKHACH-KALA	16.52	292.0	3	50	0								7	3	SS
KIROVOBAD	17.24	283.8	3	56	-3	7	4	-4							
GORIS	17.28	280.0	3	58A	-2	7	6	-3					4	14	PPP
GROZNY	17.84	292.6	4	9	2								7	33	SS
EREVAN	18.65	282.5	4	16	-1								4	28	PP

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1961

PAGE 811

BAKURIANA	19.37	287.2	4 25	0				
CHATRA	19.53	121.4	4 24A	-3	8 1	2	4 40	PP
PIATIGORSK	19.86	294.0	4 47	17	8 2	-5	10 15	
BOMBAY	19.97	168.1	4 39	7	8 18	9	5 14	
POONA	20.52	165.5	4 40A	3	8 31	11		
LHASA	20.61	108.9	4 37	-1	8 24	3		
HYDERABAD	22.79	154.9			9 10	8	9 37	
CALCUTTA	23.32	127.6			9 23	12	9 52	
SHILLONG	23.56	116.6	5 6A	-2	9 18	2	10 2	SS
VI SHAKHAPTNM	24.46	144.1	5 26	10	9 48	17		
TOCKLAI	24.94	110.5	5 23	2				
KSARA	26.71	269.8	5 39	2	10 20	12	12 36	PCS
MOSCOW	26.80	319.9	5 37	-1				
MADRAS	27.50	154.8					11 12	
LANCHOW	28.07	84.1	5 50A	0	10 35	5		
IRKUTSK	28.26	49.3	5 51A	-1				
BAYANDAI	29.17	48.1	5 58A	-2				
KYAKHTA	29.18	53.8	5 59A	-1				
ULAN-BATOR	29.18	58.9	6 0	0				
KISHINEV	30.07	299.2	6 6	-2	11 3	1	7 23	PPP
CHENGTU	30.09	94.4			11 6	4		
ISTANBUL KA.	30.24	287.4	6 10	1	11 4	-1		
KUNMING	31.80	104.8	6 22	-1	11 28	-1		
HELWAN	31.81	265.5	6 21	-2				
BUCHAREST	32.04	294.3	6 25	0			7 43	
PULKOVO	32.10	323.9	6 25	1	11 35	-2	7 37	PP
SIAN	32.59	85.0	6 30A	0	11 46	4		
LWOW	33.36	304.3	6 36	-1			7 52	PP
SOFIA	34.24	291.6	6 45	1			7 7	PP
ATHENS	34.93	283.3	6 50A	0				
APATITY	34.94	337.3	6 49	-1				
NURMIJARVI	34.99	323.3	6 49A	-2			8 9	PP
KAJAANI	35.06	330.0	6 46A	-5				
SKALNATE PL.	35.82	303.2	6 54	-4				
KRAKOW	36.02	304.7	6 59	0			15 46	
PEKING	36.53	72.3	7 4	0				
CHORZOW	36.62	305.1	7 3	-1			8 58	
SODANKYLA	37.02	334.6	7 7A	-1			8 22	PP
RACIBORZ	37.13	304.7	7 9	0			8 32	
BRATISLAVA	37.96	301.7	7 18	2			8 45	PP
UPPSALA	38.22	320.7	7 16	-2			8 45	PP
VIENNA-H.	38.44	301.9	7 21	1			9 0	PP
KIRUNA	39.35	333.5	7 26	-1			9 11	PP
PRUHONICE	39.49	304.8	7 29A	1			9 0	PP
PRAGUE	39.56	304.9	7 27	-2			9 0	PP
LJUBLJANA	39.97	298.7	7 33A	1			9 10	PP
KASPERSKE H.	40.19	303.5	7 34A	0			9 3	PP
COLLMBERG	40.37	306.9	7 35A	-1	13 28	-13	9 11	PP
TROMSOE	40.57	335.8	7 37	0				
COPENHAGEN	40.58	313.7	7 39A	2				
CHEB	40.87	305.1	7 46	6			9 45	
GOTEBORG	40.90	316.8	7 40	0			9 7	PP
HALLE	41.01	307.3	7 41	0	13 53	3		
CANTON	41.03	98.8	7 41	0	13 52	2		
MESSINA	41.05	286.6	7 40	-1				
JENA	41.30	306.5	7 43	0	13 41	-13	9 22	PP
SKALSTUGAN	41.39	325.8	7 43	-1			9 28	PP
HONG KONG	42.10	99.2	7 50	0	14 9	3		
ROME	42.28	293.0	7 51A	0			9 34	PP
CHANGCHUN	42.30	64.1	7 52	0	14 13	4		
KHEYS	42.34	357.5	7 53	1			9 46	PCP
FLORENCE X.	42.70	296.0	7 56A	1	14 41	26		
STUTTGART	43.05	303.6	7 58	0			9 47	PCP
TUBINGEN	43.23	303.3	7 59	0				
HEIDELBERG	43.31	304.6	7 59	-1				
ZO-SE	43.34	83.4	8 0	0	14 28	4		
YAKUTSK	43.45	36.9	7 59	-2	14 23	-3		
MUNSTER	43.65	308.4	7 54	-8				
BENSBERG	44.06	307.0	8 5	-1			8 33	
STRASBOURG	44.07	303.6	8 7	1			9 49	PP
BASLE	44.40	302.1	8 9K	0				
BERGEN	44.41	320.7	8 8	-1				
TIKSI	44.59	23.1	8 7	-3	14 39	-3	9 51	PP
ROSELEND	44.81	299.3	8 19	7			9 56	PP
DEBILT	45.12	308.9			14 57	7	10 9	
MONACO	45.39	296.9	7 57	-19				
BESANCON	45.52	302.1	8 17	0			9 54	PP
ISOLA	45.54	297.6	8 21	3			10 5	PP

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1961

PAGE 812

GARCHY	47.44	302.7	8 32	-1				10 2 PP
PARIS	47.44	304.9	8 33	0	15 39	16		18 38 SCS
KEW	48.59	308.9	8 41A	-1	15 42	3		
DURHAM	48.65	313.5	8 51	9	15 39	-1		
FOLINIÈRE	49.36	305.5	8 47	0				10 8
BAGNERES	50.65	298.2	8 56	-1				10 27
ABUYAMA	52.76	72.0	9 12A	-1				
MATUSIRO	54.01	69.0	9 21K	-1				15 27
LWIRO	54.70	231.5	9 27A	-1				
TOLEDO	54.76	296.0	9 27	-1				10 27 PCP
ALMERIA	54.87	292.0	9 28A	-1				11 25 PP
GRANADA	55.55	292.8	9 42	8				19 57
BANGUI	56.63	246.0	9 42	1				10 49 PP
COIMBRA	57.68	298.0	9 49K	0				
TANANARIVE	60.51	202.9	10 7	-1				
BROKEN HILL	64.73	223.6	10 36A	0				
RESOLUTE	66.47	355.3	10 47	-1				
BULAWAYO	69.40	220.1	11 4A	-2				
COLLEGE	73.00	15.4	11 27	0				12 51
DARWIN	77.07	117.4	11 51	0				
MBOUR	77.72	278.6	11 50	-4				
KIMBERLEY	78.48	218.3	11 57	-2				
HALIFAX	86.60	328.0	12 42	2				
PORT MORESBY	87.02	104.4	12 42	0				
SHAWINIGAN	88.43	334.4	12 51K	2				
BANFF	90.54	2.6	13 2K	3				
PENTICTON	92.17	5.3	13 7	0				
VICTORIA	92.62	7.9	13 10K	1				
CHARTERS TS.	93.17	113.1	13 12	1				16 50
PALISADES	93.68	332.5	13 16	2				17 2 PP
BUTTE	95.76	0.8	13 24	1				
BOZEMAN	96.12	359.7	13 27	2				
RAPID CITY	97.37	354.0	13 32	2				
FLAMING GRGE	100.83	358.4	13 47	1				
EUREKA	102.19	3.6	13 55	3				17 57 PP
FAYETTEVILLE	103.99	345.7	14 0K	0				18 16 PP
GLEN CANYON	104.81	0.1	17 29	205				
MAWSON	105.96	182.3	14 10	777			14 18	18 21 PP
WICHITA MTS.	106.09	349.0	14 11	777				17 31 PP
SOUTH POLE	128.41	180.0	19 3	0				
SCOTT BASE	129.11	164.3	19 5	1				
BYRD STATION	138.34	177.9	19 9	-12				

AUGUST 24 4.H 52.M 32.S EPICENTRE 43.65 144.69 DEPTH= 86.KM

A=-0.59236 B= 0.41957 C= 0.68780 D= 0.5780 E= 0.8160
G=-0.5613 H= 0.3976 K=-0.7259 HT= -3.0

DEPTH OF FOCUS= 0.008R

SE= 5.18

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ABASHIRI	0.47	321.4				0	14	-14				
KUSIRO	0.70	197.7	0	7K	-11	0	17	-14				
NEMURO	0.72	115.9	0	2K	-16	0	8	-23				
OBHIRO	1.31	236.7	0	18	-6	0	39	-3				
ASAHIKAWA	1.69	275.2	0	30	1							
HIROO	1.70	216.8	0	20	-9	0	42	-8				
URAKAWA	2.05	223.8	0	26	-7	0	56	-2				
RUMOE	2.24	278.8	0	38	2							
TOMAKOMAI	2.49	247.0	0	43	3	1	15	6				
SAPPORO	2.50	257.8	0	38K	-2	1	12	3				
WAKKANAI	2.79	310.5	0	47	3							
MURORAN	3.03	245.3	0	43	-4	1	24	2				
SUTTSU	3.37	256.9	0	50	-2	1	44	13				
MORI	3.40	244.3	0	49	-3	1	32	0				
HAKODATE	3.43	238.9	0	48A	-5	1	29	-3				
Y.-SAKHLINSK	3.65	338.3	0	57	1							
HATINOHE	3.90	218.1	0	49	-10	1	30	-14				
ADMORI	4.05	227.1	0	56	-5	1	40	-8				
MIYAKO	4.49	207.9	0	52	-15	1	36	-23				
MORIOKA	4.75	214.9	0	59	-12	1	49	-16				
AKITA	5.22	222.7	1	28	11	2	30	13				
MIZUSAWA	5.25	211.9	1	5	-13	1	57	-20				

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1961								PAGE 813	
UGLEGORSK	5.73	342.5	1 27	3	2 50	21			
ISINOMAKI	5.80	207.2	1 11K	-14	2 9	-22			
SAKATA	5.99	219.3	2 21	53					
SENDAI	6.09	209.4	1 21	-8	2 18	-20			
YAMAGATA	6.31	212.8	1 19	-13	2 24	-20			
HUKUSIMA	6.71	210.0	1 26	-12	2 32	-21			
NIIGATA	7.14	218.7	1 57	13	3 5	1			
ONAHAMA	7.29	204.7	2 5	19	2 44	-24			
SHIRAKAWA	7.36	209.1	1 36	-11	2 48	-21			
AIKAWA	7.45	223.1	1 38	-10					
MITO	7.95	205.4	1 39	-16	2 59	-25			
UTUNOMIYA	7.99	209.1	2 1	6	3 7	-18			
KAKIOKA	8.18	206.5	1 44	-14	3 3	-26			
TUKUBASAN	8.21	206.9	1 42A	-16	3 4	-26			
MAEBASI	8.42	212.6	1 50	-11	3 17	-18			
KUMAGAYA	8.53	210.3	1 49	-14	3 20	-18			
NAGANO	8.56	217.6	1 59	-4					
MATUSIRO	8.66	217.1	1 52A	-12	3 27	-14			
OI WAKE	8.69	214.8	2 11	6					
TITIBU	8.79	211.3	3 22	76					
TOKYO C.M.O.	8.82	207.2	1 59	-8	3 22	-23			
TOYAMA	9.00	222.1	2 0	-9					
YOKOHAMA	9.08	207.0					3 29		
KOHU	9.26	212.7	2 41	28	3 39	-17			
VLADIVOSTOK	9.33	271.2	2 14	0	4 9	11			
HUNATU	9.33	211.3	3 9	55	3 40	-18			
MERA	9.49	205.0					3 39		
MISIMA	9.60	209.4					3 40		
AJIRO	9.61	208.6	2 4	-13	3 40	-24			
IIDA	9.69	215.4	2 8	-10	3 59	-7			
HUKUI	9.99	223.4	2 31	9					
NAGOYA	10.36	217.7	2 28	1					
HIKONE	10.60	220.7	2 22	-9					
KAMEYAMA	10.85	218.7	1 25	-69					
KYOTO	11.06	221.8	2 24	-13	2 45-114				
PETROPAVLOVK	13.17	39.8	3 6	1					
CHANGCHUN	14.02	277.4	3 18	2					
MAGADAN	16.36	11.1	4 1	15					
YAKUTSK	20.41	339.5	4 38	6					
PEKING	21.51	270.2	4 41	-2	8 42	11			
ZO-SE	22.41	243.9	4 52	0	8 53	5			
ULAN-BATOR	26.52	292.6	5 31	0					
SIAN	29.17	263.4	5 54	-1					
LANCHOW	32.02	270.4	6 19A	-1					
KUNMING	38.76	255.5	7 16	-1					
COLLEGE	42.22	36.0	7 43	-3			8 5		
SHILLONG	46.26	264.9	8 16	-2					
CHATRA	48.92	269.7	8 50	11					
ANDI JAN	52.07	293.4	9 4	1					
TASHKENT	53.83	295.5	9 16	0					
STALINABAD	55.56	292.8	9 30	1					
RESOLUTE	55.57	16.1	9 26K	-3					
APATITY	57.73	335.0	9 44	0					
SODANKYLA	59.86	336.7	9 58K	-1					10 22
TROMSOE	60.28	340.9	10 1	-1					
KIRUNA	61.23	339.0	10 7	-1			10 32		
QUETTA	61.48	285.6	10 9	-1					
KAJAANI	61.77	333.6	10 8	-4					
PENTICTON	61.77	47.6							12 6
CHARTERS TS.	63.44	178.4	11 13	50					
MOSCOW	63.47	322.8	10 22	-1					
SHASTA	65.25	56.7	10 30	-5					
NURMI JARVI	65.29	331.9	10 34K	-1					
MINERAL	65.94	56.6	10 14K	-25					10 46
SKALSTUGAN	66.66	338.9	10 43	-1					
RENO	67.52	56.4	10 57	8					
LICK	67.77	59.2	10 42K	-9					
UPPSALA	68.11	334.3	10 52K	-1			11 15		
EUREKA	69.86	54.4	11 0	-3					11 12
PASADENA	71.97	59.9	11 22	6					
FLAMING GRGE	72.66	49.8	11 16	-4					
BOULDER CITY	72.83	56.6	11 15	-6					
RAPID CITY	73.75	44.1	11 35	8					
GLEN CANYON	74.10	54.0	11 24	-5					
NIEDZIKA	75.33	326.1	11 37K	1			12 1		
RACIBORZ	75.65	327.7	11 33	-4			12 1		
COLLMBERG	76.57	331.2	11 43	0			11 59	PP	
HALLE	76.77	331.9	11 44	0					

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1961

PAGE 814

PRUHONICE	77.11	329.6	11 46A	0		12 11
JENA	77.37	331.7	11 46	-1		12 10
MUNSTER	77.79	334.5	11 51	2		
TUCSON	77.79	57.1	11 46	-3	11 58	
KASPERSKE H.	78.16	329.6	11 52A	1		12 16
CANBERRA	78.69	176.4	11 48	-6		
BENSBERG	78.80	334.2	11 54	-1	12 11	12 19 *SP
STUTTGART	79.99	331.9	12 1	0		12 25
LJUBLJANA	80.36	327.3	12 3	0		
WICHITA MTS.	83.04	47.8	12 14	-3		13 26
GARCHY	83.32	334.8	12 19	0		13 19
ROSELEND	83.39	331.2	12 18	-1		
FLORENCE X.	83.53	328.0	12 19	-1		
SHAWNIGAN	84.26	25.0	12 21	-2		
FAYETTEVILLE	84.29	44.2	12 20K	-4		
OTTAWA	84.34	27.3	12 21	-3		
ISOLA	84.74	330.9	12 26	0		
HELWAN	84.79	306.8	12 26	0		12 46
KARAPIRO	85.88	156.0	12 44	13		
MORGANTOWN	87.82	32.9	12 39K	-2		
PALISADES	88.84	28.2				30 43 SS
TACUBAYA	94.27	58.2				4 27
SCOTT BASE	121.98	174.6	18 41	-4	18 54	
MAWSON	126.56	208.2	18 49	-4	19 2	

AUGUST 24 22.H 40.M 55.S EPICENTRE 43.25 145.78 DEPTH= 54.KM

A=-0.60419 B= 0.41098 C= 0.68268 D= 0.5624 E= 0.8268
G=-0.5645 H= 0.3840 K=-0.7307 HT= -2.9

DEPTH OF FOCUS= 0.003R

SE= 4.40

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
NEMURO	0.17	300.4	0	10	0	0	15	-2				
KUSIRO	1.04	255.7	0	15K	-4	0	26	-8				
ABASHIRI	1.33	306.0	0	24	1	0	42	1				
OBISHIRO	1.91	261.1	0	28K	-3	0	49	-6				
HIROO	2.05	242.7	0	29	-4	0	51	-7				
URAKAWA	2.47	244.6	0	36	-3	1	3	-5				
KURILSK	2.49	36.5	0	45	6	1	18	9				
ASAHIGAWA	2.53	283.3	0	40	0							
TOMAKOMAI	3.14	260.1	0	53	4							
SAPPORO	3.24	268.4	0	47K	-3	1	22	-6				
WAKKANAI	3.65	307.9	1	3	7	1	51	13				
HAKODATE	3.97	250.5	0	57A	-3	1	37	-9				
MORI	4.01	255.2	0	59	-2	1	42	-5				
SUTTSU	4.09	265.6	0	59	-3	1	47	-2				
HATINOHE	4.17	230.9	0	57	-6	1	38	-13				
Y.-SAKHLINSK	4.35	331.3	1	7	1	2	0	4				
AOMORI	4.44	238.6	1	3	-4	1	51	-7				
MIYAKO	4.59	219.8	1	2	-7	1	46	-16				
MORIOKA	4.95	225.9	1	7	-7	1	57	-14				
MIZUSAWA	5.40	222.0	1	13	-7	2	7	-15				
AKITA	5.53	232.3	1	19	-3	2	19	-6				
ISINOMAKI	5.88	216.6	1	20A	-7	2	18	-16				
SENDAI	6.20	218.3	1	28	-3	2	27	-15				
SAKATA	6.25	228.0	1	27	-5							
UGLEGORSK	6.38	337.5	1	37	3	2	56	10				
YAMAGATA	6.47	221.3	1	28	-7	2	32	-17				
HUKUSIMA	6.82	218.1	1	33	-7	2	42	-15				
ONAHAMA	7.31	212.3	1	44	-3	2	53	-16				
NIIGATA	7.38	226.1	1	57	9							
SHIRAKAWA	7.45	216.6	1	42	-7	2	57	-16				
AIKAWA	7.74	230.1	1	46	-7							
MITO	7.98	212.5	1	47	-9	3	9	-17				
UTUNOMIYA	8.08	216.1	1	52	-5	3	12	-16				
KAKIOKA	8.22	213.4	1	52	-7	3	16	-16				
TUKUBASAN	8.27	213.8	1	50A	-10	3	14	-19				
TAKADA	8.42	225.7	1	48	-14							
TYOSI	8.42	208.5	2	4	2	3	18	-19				
MAEBASI	8.56	219.3	1	58	-6	3	28	-12				
KUMAGAYA	8.63	216.9	1	57	-8	3	26	-16				
NAGANO	8.77	224.0	2	9	2							
OI WAKE	8.86	221.2	2	15	7	3	38	-10				

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1961

PAGE 815

MATUSIRO	8.87	223.5	2	1A	-7	3	35	-13	
TOKYO C.M.O.	8.87	213.6	2	0	-8	3	31	-17	
WAZIMA	8.96	232.1	2	5	-5				
YOKOHAMA	9.13	213.3				3	39	-14	
MATUMOTO	9.21	223.3	2	23	10				
KOHU	9.40	218.8	2	14	-2	3	50	-11	
HUKATU	9.44	217.3	2	29	13	3	50	-12	
MERA	9.51	211.0							3 36
AJIRO	9.68	214.5	2	11	-9				2 49
MI SIMA	9.69	215.4							3 17
OSIMA	9.81	212.5							3 50
IIDA	9.86	221.2	2	13	-9	3	59	-13	
VLADIVOSTOK	10.14	274.0	2	24	-2	4	18	-1	
SEVERO-KUR.	10.24	39.9	2	35	8				
HUKUI	10.28	228.8	2	32	4				
OMAESAKI	10.44	216.8							4 7
GIHU	10.48	224.6	2	33	3				
NAGOYA	10.56	223.2	2	34	2	4	23	-6	
TSURUGA	10.66	227.9	2	44	11				
HIKONE	10.85	226.0	2	30	-5				
KYOTO	11.32	226.8	2	36	-6				
ABUYAMA	11.52	226.8	2	36A	-8				
TAKAMATU	12.76	229.6	2	53	-8				
PETROPAVLOVK	13.00	36.8	3	15	11				5 30
CHANGCHUN	14.86	279.3	3	25	-3	6	18	6	
KUMAMOTO	15.77	233.7	3	16	-24				
MAGADAN	16.62	9.0	3	59	8				
YAKUTSK	21.07	338.7	4	47	5	8	30	2	
PEKING	22.30	271.9	4	50A	-4	8	50	-1	
ZO-SE	22.95	246.3				9	8	5	
SIAN	29.91	265.0	6	4	-1				
LANCHOW	32.82	271.8	6	29A	-2				
COLLEGE	42.08	35.7	7	52	4				
TOCKLAI	44.21	265.3	8	31	25				
SHILLONG	47.01	266.1	8	24A	-4				
FRUNSE	50.50	295.5	8	54	-1				
SVERDLOVSK	52.82	316.6	9	12	0				
TASHKENT	54.72	296.2	9	24	-2				
RESOLUTE	55.74	16.3	9	35A	1				
NEW DELHI	55.97	278.9	9	32A	-3				
APATITY	58.42	335.4	9	51	-2				
VI CTORIA	59.79	50.3	10	4	2				
SODANKYLA	60.54	337.2	10	7	0				
LEMBANG	60.66	224.7	10	6K	-2				
TROMSOE	60.92	341.3	10	10	0				
KIRUNA	61.89	339.5	10	16	0				
QUETTA	62.35	286.5	10	17	-2				
KAJAANI	62.48	334.1	10	15	-5				
BANFF	62.55	44.5	10	24	3				
ASHKABAD	63.64	298.2	10	27	-1				
MOSCOW	64.26	323.4	10	30	-2				
PULKOVO	64.54	329.6	10	33	-1				
SHASTA	64.81	57.1	10	39	3				
MINERAL	65.50	57.0	10	17A	-23				
NURMIJARVI	66.02	332.4	10	43A	0				
BERKELEY	66.58	59.5	10	49	2				
RENO	67.08	56.8	11	5	15				
STA. CRUZ C.	67.27	60.2	11	6	15				
LICK	67.29	59.7	11	6A	15				
SKALSTUGAN	67.32	339.4	10	51	0				
BOZEMAN	68.29	47.3	11	1	3				
UPPSALA	68.81	334.8	11	0A	-1				
EUREKA	69.44	54.9	11	8	3	11	20	13 48 PP	
PASADENA	71.49	60.4	11	21	4	11	33		
BERGEN	71.77	340.6	11	19	0				
GOTEBORG	72.28	336.0	11	21A	-1				
FLAMING GRGE	72.32	50.2	11	25	3	11	37		
BOULDER CITY	72.39	57.1	11	25	3				
SIDA	72.55	352.6	11	27K	4				
SIMFEROPOL	73.19	316.4	11	28A	1				11 43 PCP
RAPID CITY	73.48	44.6	11	31	2				
GLEN CANYON	73.69	54.5	11	33	3	11	45		
COPENHAGEN	73.82	334.6	11	31	0				
LARAMIE	74.16	47.9	11	36	3				
KISHINEV	74.26	320.7	11	34	1				
LWOW	74.27	325.1	11	34	1				
KRAKOW	75.76	327.4	11	43K	1				
NIEDZIKA	76.10	326.8	11	45	1				12 10
SKALNATE PL.	76.32	326.7	11	41	-4				

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1961

PAGE 816

RACIBORZ	76.41	328.3	11 47	1		
COLLMBERG	77.30	331.8	11 51A	0		14 49 PP
TUCSON	77.34	57.7	11 55	4	12 7	
TUCSON TELE.	77.35	57.5	11 55	4		
HALLE	77.49	332.5	11 51	-1		
PRUHONICE	77.85	330.2	11 55A	1		
JENA	78.10	332.4	11 54	-1		12 31
CANBERRA	78.25	177.3	11 56	0		
BRATI SLAVA	78.38	327.8	11 58	1		12 10 PCP
MUNSTER	78.49	335.1	11 59	2		
KASPERSKE H.	78.91	330.3	12 1A	2		12 46
BENSBERG	79.51	334.8	12 3	0	12 15	12 20 *SP
SOFIA	80.08	320.8	12 8	2		12 32
STUTTGART	80.72	332.5	12 10	1		12 33
LJUBLJANA	81.12	328.0	12 12A	1		
KEW	81.18	339.3	12 12	0		
STRASBOURG	81.39	333.3	12 13	0		
WICHITA MTS.	82.72	48.5	12 22	2		27 45 SS
PARIS	82.82	336.5	12 22	2		12 34 PCP
ATHENS	83.58	317.6	12 24K	0		14 14
FOLINIERE	83.69	338.3	12 26	2		
GARCHY	84.02	335.5	12 27	1		12 39 PCP
FAYETTEVILLE	84.02	44.8	12 28K	2		
ROSELEND	84.12	331.8	12 29	2		
SHAWI NIGAN	84.28	25.6	12 29	2		
FLORENCE X.	84.29	328.7	12 29K	2		
OTTAWA	84.33	28.0	12 29	1		
KARAPIRO	85.20	156.8	12 42	10		
ISOLA	85.47	331.6	12 34	1		
HELWAN	85.66	307.5	12 34	0		12 59
MONACO	85.73	331.1	12 34	-1		
HALIFAX	88.67	20.5	12 51	2		
BAGNERES	88.71	335.6	12 50	1		13 23
TOLEDO	92.87	337.2	13 9	1		
SCOTT BASE	121.51	174.9	18 49	1		
MAWSON	126.58	208.3	19 11A	13		
LA PAZ	140.76	57.8	18 6	-78		

AUGUST 25 6.H 59.M 27.S EPICENTRE 53.48-161.41 DEPTH= 0.KM

A=-0.56658 B=-0.19052 C= 0.80168 D=-0.3187 E= 0.9478
G=-0.7599 H=-0.2555 K=-0.5978 HT= -6.7

SE= 2.50

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	O-C S	M	S	M	S
COLLEGE	13.34	25.8	3	10	-3	6	13	30				
PETROPAYLOVK	23.69	285.1	5	14	0	9	19	-7				
VICTORIA	24.21	86.3	5	18	-1							
CORVALLIS	26.25	94.2	6	27	49							
BANFF	27.76	76.0	5	53	1							
SHASTA	29.09	100.1	6	5	1							
MINERAL	29.78	99.9	5	44K	-26							
BERKELEY	31.03	104.2	6	21	0							
RENO	31.36	99.3	6	25	1							
LICK	31.75	104.3	6	28A	1							
BUTTE	31.88	83.4	6	27	-2							
BOZEMAN	32.97	82.9	6	39	1							
FRESNO	33.21	103.2	6	41	1							
RESOLUTE	33.26	26.4	6	42	1							
EUREKA	33.67	95.9	6	44	0						7 52 PP	
SALT LAKE C.	35.32	90.6	6	49	-9							
PASADENA	36.00	104.8	7	3	-1	12	45	2				
YAKUTSK	36.04	311.6	7	3	-2							
BOULDER CITY	36.67	99.4	7	10	0							
FLAMING GRGE	36.69	88.4	7	10	0						9 31 PCP	
GLEN CANYON	37.92	95.3	7	21	1						8 44	
RAPID CITY	38.49	79.8	7	26	1							
LARAMIE	38.73	85.1	7	28	1							
TUCSON	41.64	99.9	7	52	1							
TUCSON TELE.	41.64	99.7	7	52	1							
VLADIVOSTOK	44.01	284.6	8	13	3							
MATUSIRO	44.50	272.9	8	14	0	14	50	0			9 57 PCP	
WICHITA MTS.	47.20	87.1	8	35	-1	15	29	0			10 6 PCP	
FAYETTEVILLE	48.88	82.4	8	47A	-2						10 12 PCP	

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1961		PAGE 817						
IRKUTSK	52.76	309.7	9	19	1	16	50	4
OTTAWA	53.09	61.5	9	19	-2			
SHAWINIGAN	53.85	58.7	9	26A	0			
ULAN-BATOR	54.45	304.3	9	31	0			
TROMSOE	57.21	359.9	9	52	1			
APATITY	58.78	353.4	10	2	0			
KIRUNA	59.01	359.2	9	59	-4			
SODANKYLA	59.33	356.4	10	6	0			
HALIFAX	59.79	55.0	10	7	-2			
KAJAANI	62.57	355.5	10	24	-4			
SKALSTUGAN	63.18	3.2	10	33	1			
NURMIJARVI	66.26	356.7	10	51	-1			
MOSCOW	70.04	348.7	11	16	1			
HALLE	75.25	4.3	11	47	1			
COLLMBERG	75.49	3.6	11	48K	1			14 38 PP
BENSBERG	75.50	7.4	11	49	2			
JENA	75.80	4.6	11	49	0			13 13
TASHKENT	75.99	323.1	11	50A	0			
PORT MORESBY	76.25	232.6	11	51	-1			
FOLINIERE	76.86	12.8	11	56	1			
PRUHONICE	76.86	2.7	11	56	1			13 6
NIEDZIKA	77.47	358.8	12	1	3			
KASPERSKA H.	77.68	3.4	12	1K	1			15 6
STUTTGART	77.83	6.3	12	1	1			
SAMARKAND	78.27	323.9	11	52	-11			
SAN JUAN	78.53	74.8	12	4	0			
STALINABAD	78.60	322.1	12	6	1			
GARCHY	78.76	10.7	12	7	1			12 33
SHILLONG	79.12	298.3	12	6	-2			
CHATRA	80.51	302.5	12	8A	-7			
ISOLA	82.22	8.4	12	26	2			
TIFLIS	82.53	340.5	12	29	3			
MONACO	82.70	8.1	12	28	2			
NEW DELHI	83.82	311.0	12	29A	-3			
TEHERAN	86.71	333.8	12	49	2	23	32	9
QUETTA	86.73	319.6	12	49	2			16 9 PP
TRINIDAD	87.42	75.7	12	48	-2			
SOUTH POLE	143.29	180.0	19	38	2			
BULAWAYO	145.84	343.1	19	42A	2			
MAWSON	154.75	218.9	20	1	7			20 16

AUGUST 27 1.H 51.M 54.S EPICENTRE -15.56 -13.26 DEPTH= 50.KM

A= 0.93813 B=-0.22104 C=-0.26655 D=-0.2293 E=-0.9733
G=-0.2594 H= 0.0611 K=-0.9638 HT= 5.6

DEPTH OF FOCUS= 0.003R

SE= 2.36

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	O-C S	M	S	M	S
MBOUR	29.97	352.8	6	5	-1	11	9	10				
BANGUI	37.26	60.4	7	10	1	13	4	12				
KIMBERLEY	37.43	117.1	7	9	-1							
PRETORIA	39.93	111.6	7	32	1							
BULAWAYO	40.04	102.9	7	33K	1							
BROKEN HILL	40.28	94.1	6	45	-49							
LA PAZ	52.61	261.0	9	11	0	16	40	7				
ALMERIA	53.11	10.8	9	6K	-9						11 14 PP	
GRANADA	53.24	9.6	9	17K	1	16	31	-11			12 11 PPP	
LISBON	54.13	4.0	9	24	2							
COIMBRA	55.65	4.5	9	33K	0							
TOLEDO	55.81	8.6	9	34	-1						11 35 PP	
SERRA PILAR	56.56	4.2	9	39K	-1							
TORTOSA	57.53	12.4	9	46	-1							
TANANARIVE	57.93	102.8	9	52	2							
BAGNERES	59.62	11.4	10	8	7						12 38	
MESSINA	59.92	26.0	10	4	1							
ARGENTINE I.	60.19	202.2	10	3	-2							
HUANCAYO	60.21	264.9	10	6	1							
ROME	61.91	21.6	10	17A	0	18	52	16			14 38 PPP	
MONACO	61.96	16.9	10	17	0							
SAN JUAN	62.03	301.0	10	18	0							
ISOLA	62.27	16.4	11	20	61							
HELWAN	62.35	43.5	10	20	0						12 33	
CLERMONT-FD.	62.81	12.8	10	25	2							

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1961

PAGE 818

FLORENCE X.	63.16	19.7	10 18A	-7	18 56	5	
FUQUENE	63.41	284.4	10 29A	2			
ATHENS	63.56	32.1	10 25	-3			
GARCHY	64.24	12.3	10 32	0			11 23
PADOVA	64.82	19.3	10 41	5			11 48
BESANCON	64.86	14.4	10 35	-1			
CHINCHINA	65.01	283.1	10 37A	0			
FOLINIÈRE	65.04	9.3	10 38	1			
BASLE	65.52	15.4	10 40K	-1			
PARIS	65.59	11.4	10 41	0			
TRIESTE	65.65	20.5	10 42	1	19 36	14	
LJUBLJANA	66.26	20.8	10 45K	0			13 12 PP
STRASBOURG	66.54	15.1	10 46	-1			13 13 PP
GALERAZAMBA	66.74	289.2	10 48	0	19 51	16	
SOFIA	67.02	28.5	10 51	1			11 20
KARLSRUHE	67.10	15.3	10 49	-2			11 10
STUTT GART	67.10	16.0	10 49	-2			
BELGRADE	67.46	25.3	10 56	3			13 39 PP
HEIDELBERG	67.54	15.3	10 53	0			
KEW	67.69	8.7	10 55	1			
KSARA	67.83	42.8	10 57A	2	20 8	20	13 30 PP
ISTANBUL UN.	68.57	33.1	10 58	-2			
BENSBERG	68.61	13.7	11 0	0			
KASPERSKE H.	68.66	18.6	11 59K	59			13 28 PP
VIENNA-H.	68.80	20.8	11 1	0			11 38 PCP
CHEB	69.15	17.4	11 10	7			13 38 PP
BUCHAREST	69.63	29.0	11 6	0			12 26
MUNSTER	69.65	13.6	11 8	2			
JENA	69.69	16.5	11 4	-3	20 21	11	13 40 PP
PRUHONICE	69.71	18.7	11 6	-1			
PRAGUE	69.75	18.6	11 11	4			
WITTEVEEN	70.24	12.7	11 6	-4			
HALLE	70.30	16.4	11 9	-1			13 52 PP
MAWSON	70.45	156.7	11 10K	-1			
RACIBORZ	70.98	20.8	11 14	0			
CHORZOW	71.43	21.2	11 16	-1			
KRAKOW	71.57	21.8	11 17	-1			11 57
LWOW	72.93	24.2	11 25	-1			14 16
WARSAW	73.76	21.2	11 30	-1			
SIMFEROPOL	73.99	32.9	11 32	0	21 9	10	
COPENHAGEN	74.20	14.8	11 35	2			
SOUTH POLE	74.54	180.0	11 36	1			
HALIFAX	75.36	325.4	11 40	0			
GOTEBORG	75.92	13.7	11 44	1			
SOTCHI	76.19	36.7	10 45	-60			
GORIS	77.96	43.0	11 57	2			
TIFLIS	78.17	40.5	11 57	1			21 59
UPPSALA	79.20	15.3	12 1	-1			
PALISADES	79.44	317.9	12 2	-1	22 6	7	15 4 PP
WASHINGTON	80.49	314.8	12 6	-2			
CHAPEL HILL	80.50	311.4	12 10	2			
MAKHACH-KALA	80.53	40.5	12 9	0			
SKALSTUGAN	81.34	11.2	12 13	0			
BREBEUF	81.62	321.8	12 14	0			
SHAWINIGAN	81.69	323.1	12 15	0			
NURMIJARVI	81.69	17.9	12 14	-1			
PENNSYLVANIA	81.94	316.2	12 25	9			
MIRNY	82.17	157.2	12 16	-1			
MORGANTOWN	82.81	314.4	12 21A	1			
OTTAWA	82.83	321.0	12 20	-1			
MOSCOW	82.87	26.3	12 21	0			
PULKOVO	82.91	20.6	12 20	-1			
KAJAANI	85.39	16.8	12 29	-4			
KIRUNA	86.69	12.2	12 40	0	23 25	14	
SCOTT BASE	86.77	180.0	12 42A	2			
SODANKYLA	87.68	14.4	12 44	-1			
QUETTA	89.51	58.6	12 56K	3	23 55	17	
APATITY	89.55	16.2	12 24	-29			
FAYETTEVILLE	91.91	306.8	13 4	0			
SAMARKAND	92.48	49.6	13 3	-4			
SVERDLOVSK	94.34	32.0	13 17	1			
TASHKENT	94.65	48.5	13 16	-1			
WICHITA MTS.	94.96	304.5	13 18	0			25 51 PS
KHEYS	102.26	9.2					18 5 PP
TUCSON	104.43	299.9	18 26	265			
EUREKA	109.45	306.8	17 40	777			
COLLEGE	121.99	339.0	18 49	0			
CHARTERS TS.	139.25	149.7	19 26	4			22 17

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1961

PAGE 819

PETROPAVLOVK	142.08	8.0	19 26	-1	
ABUYAMA	146.08	49.7	19 36K	2	
MATUSIRO	147.14	45.1	19 39K	3	23 16 PP
PORT MORESBY	148.51	140.7	19 45	7	

AUGUST 27 16.H 22.M 16.S EPICENTRE 47.47 154.05 DEPTH= 53.KM

A=-0.61010 B= 0.29688 C= 0.73460 D= 0.4375 E= 0.8992
G=-0.6606 H= 0.3214 K=-0.6785 HT= -4.5

DEPTH OF FOCUS= 0.003R

SE= 4.33

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KURILSK	4.83	244.7	1 6	-6	2 5	-3		
PETROPAVLOVK	6.29	26.2	1 32	-1	2 46	2		
NEMURO	7.26	238.3	1 37	-9	2 57	-11		
ABASHIRI	7.65	246.8	1 50	-2				
Y.-SAKHLINSK	7.73	270.9	1 51	-2	3 26	6		
KUSIRO	8.16	240.2	1 49	-10	3 22	-8		
UGLEGORSK	8.16	285.8	1 59	0				3 47
WAKKANAI	8.79	261.1	2 7	0	3 45	-1		
OBIIHIRO	8.91	243.3	2 2	-7	4 10	21		
ASAHIGAWA	8.98	250.0	2 17	7				
HIROO	9.21	239.7	2 5	-8	3 48	-8		
OKHA	9.34	314.8	2 17	2				4 24
RUMDE	9.38	252.5	2 14	-1	4 8	7		
URAKAWA	9.61	240.5	2 11	-8	4 11	5		
KLYUCHI	9.81	22.8	2 22	1	4 33	22		
SAPPORO	9.97	248.5	2 18	-6	4 11	-4		4 36
TOMAKOMAI	10.06	245.8	2 30	5				
MURORAN	10.60	245.7	2 25	-7	4 25	-5		
SUTTSU	10.82	249.5	2 26	-9	4 41	5		
MORI	10.98	245.7	2 29	-8	4 34	-5		
HAKODATE	11.03	244.0	2 29	-9	4 30	-11		
HATINOHE	11.37	237.0	2 24	-18	4 28	-21		
AOMORI	11.61	239.9	2 41	-5	4 51	-4		
MIYAKO	11.73	232.6	2 47	0	4 41	-17		
MORIOKA	12.13	234.9	2 44	-9	4 42	-25		
MAGADAN	12.26	352.2	2 54	0				5 24
MIZUSAWA	12.56	233.1	2 52	-6	5 2	-16		
ISINOMAKI	12.97	230.5	2 51	-13	5 31	4		
SENDAI	13.31	231.1	2 58	-10	5 29	-6		
SAKATA	13.44	235.6			5 27	-11		
YAMAGATA	13.61	232.4	3 13	1	5 29	-14		
HUKUSIMA	13.92	230.7	3 5	-11	6 37	47		
ONAHAMA	14.31	227.5	3 34	13	5 53	-6		
SHIRAKAWA	14.53	229.6	3 22	-2	5 51	-13		
NIIGATA	14.56	234.5						5 46
MITO	14.97	227.2	3 20	-10	6 1	-14		
UTUNOMIYA	15.14	229.0	3 37	5	6 10	-9		
KAKIOKA	15.23	227.5	3 25	-8	6 8	-13		
TUKUBASAN	15.28	227.7	3 22A	-12	6 8	-14		3 51 PPP
TAKADA	15.59	234.1	3 26	-12				
MAEBASI	15.67	230.5	3 33K	-6	6 48	17		
KUMAGAYA	15.70	229.2	3 29	-10	6 19	-13		
HONGO	15.85	227.3			6 27	-8		8 18
TOKYO C.M.O.	15.88	227.3	3 32	-10				
NAGANO	15.93	233.1	3 40	-2				
TITIBU	15.99	229.5	3 36	-7				
OIWAKE	16.00	231.5	3 36	-7	6 39	0		
MATUSIRO	16.02	232.8	3 33A	-10	6 30	-9		
YOKOHAMA	16.13	227.0	3 39	-6				
WAZIMA	16.15	237.6			6 44	2		
VLADIVOSTOK	16.17	262.6	3 42	-3	6 34	-9		
MATUMOTO	16.37	232.6	3 47	-1				
MERA	16.45	225.5	3 49	0				4 44
TOYAMA	16.46	235.3						
KOHU	16.50	230.0	3 43	-6	6 59	9		
HUNATU	16.52	229.2	3 44	-6	6 46	-5		
AJIRO	16.70	227.4	3 49	-3				
MISIMA	16.72	227.9	3 35	-17	6 47	-8		
OSIMA	16.79	226.2	4 5	12				
IIDA	16.99	231.2	3 50	-6				

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1961

PAGE 820

SHIZUOKA	17.12	228.8	3 55	-2				
HUKUI	17.47	235.7	3 55	-7			7 19	
OMAE SAKI	17.50	228.4					4 22	
GIHU	17.65	233.2	4 0	-4				
NAGOYA	17.72	232.3	3 57	-8	7 3	-15		
TSURUGA	17.85	235.1	3 59	-7				
HIKONE	18.03	233.9	4 3	-6	7 26	1		
KAMEYAMA	18.23	232.6	4 4	-7			7 53	
TU	18.31	232.2	4 12	0				
KYOTO	18.50	234.4	4 6	-8	7 32	-3		
TOYOOKA	18.64	237.2	4 9	-7	7 30	-9		
ABUYAMA	18.70	234.4	4 9A	-8				
OSAKA	18.89	234.0					4 41	
OWASE	18.96	231.5	4 15	-5				
SIOMI SAKI	19.67	231.2	4 24	-3	8 2	1		
YAKUTSK	20.06	325.5	4 30	-2			4 56	PP
CHANGCHUN	20.37	270.3	4 28A	-7	8 11	-4		
KOTI	20.81	235.5	4 35	-4	8 25	1		
HIROSIMA	20.84	238.9	4 35A	-5	8 26	2		
MATUYAMA	21.02	237.3	4 38	-4	8 41	13		
SIMI DU	21.70	235.0	4 31	-17	8 45	5		
OOITA	22.13	238.1	4 49	-4			8 13	
HUKUOKA	22.61	240.7	4 56	-1	9 8	11		
ASOSAN	22.69	238.4	4 48	-10	9 17	19		
KUMAMOTO	22.96	238.8	4 59	-2	9 18	15		
MIYAZAKI	23.21	236.1	5 2	-1	9 22	15		
UNZENDAKE	23.29	239.4	5 3	-1				
NAGASAKI	23.50	239.9	5 3A	-3	9 23	11		
KAGOSIMA	23.96	236.9	5 10A	0	10 34	74		
TOMIE	24.24	241.4	5 16	3	9 37	12		
YAKUSIMA	24.83	235.2	5 14	-5			8 26	
TIKSI	26.95	342.7	5 37	-2			6 20	PP
PEKING	28.14	268.7	5 47A	-2				
ZO-SE	29.96	248.8	6 3A	-3	11 1	3		
NANKING	30.86	252.9	6 11A	-3	11 15	3		
ULAN-BATOR	31.36	288.6	6 14	-4	11 35	15		
IRKUTSK	31.89	297.4	6 20A	-3	11 30	1	7 21	PP
COLLEGE	35.19	39.0	6 51	0	12 26	6		
SIAN	36.10	265.2	6 57A	-2	12 21	-13		
LANCHOW	38.54	271.5	7 18A	-1				
CANTON	40.53	247.6	7 34A	-2	13 36	-5		
HONG KONG	40.60	245.9	7 27	-9	13 41	-1	9 15	
BAGUIO CITY	41.45	233.1	7 39	-4	13 50	-4		
CHENG TU	41.56	264.6	7 42	-2	13 54	-2		
SITKA	42.42	49.8	7 52	1				
MANILA	42.63	231.1	7 50	-3			10 6	
KHEYS	44.52	346.5					9 58	PP
KUNMING	46.01	259.6	8 19A	-1	15 3	2		
KIPAPA	46.34	107.1	8 20	-3				
HONOLULU	46.38	107.3			15 12	6		
SEMIPALATNSK	46.72	302.4					15 12	PS
HAWAII V.OB.	49.56	106.4	8 40	-8			13 57	
RESOLUTE	49.96	18.9	8 52K	1	16 7	11		
TOCKLAI	50.30	267.6	8 59	6				
LHASA	50.99	273.2	9 0A	1	16 25	15		
RABAUL	51.47	182.4	8 56	-6				
ALMATA	52.24	295.8	9 8	0			12 18	PPP
SHILLONG	53.04	268.7	9 14A	0	16 39	1		
SVERDLOVSK	53.74	317.1	9 19	0	16 51	3		
FRUNSE	53.90	296.5	9 20	0				
PENTICTON	54.27	53.6	9 21	-2				
CORVALLIS	54.84	60.1	9 44	17				
CHITTAGONG	55.22	265.8	9 29	-1	17 6	-2	9 41	11 31
CHATRA	55.40	273.3	9 31A	0	17 10	0		PP
BANFF	55.41	49.9	9 34	3				
PORT MORESBY	56.94	188.1	9 48	6	17 29	-2		13 57
SHASTA	57.65	63.4	9 47	0				
TASHKENT	58.01	297.8	9 48	-2				13 18
MINERAL	58.34	63.3	10 27A	35				PPP
TROMSOE	58.68	343.2	9 54	-1				
SODANKYLA	58.82	338.9	9 54A	-2	18 11	16		
KHOROG	58.98	293.0	9 56	-1				
DEHRA DUN	59.28	282.6	9 58	-1	18 11	10	13 38	PPP
BERKELEY	59.46	66.0	9 59	-1	18 11	7		
KIRUNA	59.87	341.5	10 2A	-1	18 18	9	13 44	
RENO	59.93	63.1	10 2	-1				
BUTTE	60.06	53.4	10 5	1	18 20	9		
STA. CRUZ C.	60.17	66.6	10 5	0				
LICK	60.18	66.1	10 3K	-2				

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1961		PAGE 822									
CHUR	81.08	336.2	12 13	2							
NEUCHATEL	81.63	337.9	12 15	1							
FOLINIÈRE	81.63	343.3	12 15	1							
BESANCON	81.64	338.6	12 13	-1							
PADOVA	81.73	334.1	12 24	9					22 14		
KSARA	81.94	312.2	12 15A	-1	22 16	-8			15 22	PP	
PALISADES	82.16	34.6	12 18	1	22 29	3	12 27		15 45	PP	
GARCHY	82.30	340.5	12 18	1			12 31		12 38	*SP	
HALI FAX	82.50	26.1	12 31	12							
WASHINGTON	82.70	37.8	12 20	0					13 12		
ROSELEND	82.85	336.9	12 22	2							
PRATO	83.35	334.0	12 25	2	22 54	16					
FLORENCE X.	83.40	333.8	12 25	2	23 56	77					
CHIAVARI	83.46	335.3	13 10	47	24 8	89					
CLERMONT-FD.	83.71	340.0	12 29K	4							
ISOLA	84.22	336.8	12 28	1	22 56	9					
MONACO	84.53	336.4	12 29	0							
ROME	84.72	332.2	12 30A	1	23 6	13			24 5	PS	
TACUBAYA	86.68	64.9	12 43	4	23 19	8					
BAGNERES	86.94	341.2	12 57	16							
MESSINA	87.02	328.5	12 39	-2							
KARAPIRO	87.16	163.1	12 39	-3							
HELWAN	87.40	313.0	12 42	-1	23 8	-10					
MOORLANDS	89.73	185.1	13 3	9							
FDRT NELSON	90.21	184.9	13 6	10							
SERRA PILAR	90.45	347.0	12 55A	-2			13 8				
TOLEDO	90.88	343.3	12 59	0	23 39	-10			23 32	SKS	
GRANADA	93.39	342.3							19 19		
CARACAS	111.76	44.0	19 24	55					20 34	PP	
LWIRO	114.83	296.0							19 23	PP	
BROKEN HILL	124.38	287.3	18 54	0							
SCOTT BASE	125.29	176.7	18 52	-3					32 29	SKKP	
BULAWAYO	128.40	282.4	19 1	0							
MAWSON	133.14	211.7	19 7	-3					19 35		
LA PAZ	133.60	62.8	19 14	3					20 47	PP	

AUGUST 27 16.H 47.M 51.S EPICENTRE 17.95 146.65 DEPTH= 60.KM

A=-0.79516 B= 0.52339 C= 0.30624 D= 0.5498 E= 0.8353
G=-0.2558 H= 0.1684 K=-0.9520 HT= 5.2

DEPTH OF FOCUS= 0.004R

SE= 2.91

	DELTA DEG.	AZ. DEG.	P			S			O-C			*PP		SUPP.	
			M	S	O-C S	M	S	O-C S	M	S	M	S			
GUAM	4.82	202.6	1	10	-2	1	54	-13							
HERA	17.96	341.6	4	4K	-3	7	33	11							
OSIMA	17.96	340.3	4	6	-1	7	34	12							
SIOMISAKI	18.27	329.8	4	9	-1										
AJIRO	18.31	339.9	4	7	-4	7	38	8							
HISIMA	18.43	339.7	4	11	-1	7	39	7							
SHIZUOKA	18.48	338.2	4	14	1										
YOKOHAMA	18.49	341.7	4	11	-2	7	56	22							
OWASE	18.58	331.8	4	13	-1										
TOKYO C.M.O.	18.69	342.2	4	21	6										
HUNATU	18.83	339.7	4	16	-1	7	53	12							
TU	18.97	333.5	4	26	7										
KOHU	19.06	339.5	4	18	-2	7	57	11							
KAKIOKA	19.09	343.8	4	21	1	7	58	11							
TUKUBASAN	19.10	343.6	4	17A	-3							6 55			
KAMEYAMA	19.12	333.7	4	40	20										
MI TO	19.16	344.7	4	19	-2	7	55	7							
TITIBU	19.17	341.0	4	20	-1	8	5	16							
IIDA	19.18	337.6	4	20	-1										
NAGOYA	19.19	335.2	4	17	-4	7	36	-13							
SIMIDU	19.23	322.8	4	58	37								7 50		
KUMAGAYA	19.24	341.9	4	21	-1	8	0	10							
OSAKA	19.37	331.4	4	38	15								6 11		
SUMOTO	19.40	329.6	4	21	-2										
GIHU	19.47	335.1	4	25	1										
UTUNOMIYA	19.47	343.4	4	26	2	8	8	13							
KOTI	19.49	325.4	4	23	-1	7	54	-1							
MAEBASI	19.56	341.5	4	22	-3	8	17	20							
HIKONE	19.57	333.8	4	25	0	8	12	15							
KYOTO	19.59	332.4	4	31	6	8	7	9							

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1961

PAGE 823

ONAHAMA	19.60	346.2	4 25A	0	8 15	17	
OIWAKE	19.66	340.2	4 25	-1	8 6	7	
MATUMOTO	19.78	338.9	4 34	7			
KAGOSIMA	19.91	316.0	4 32	3			5 13
SHIRAKAWA	19.92	344.8	4 27	-2			
MATUSIRO	19.96	339.8	4 26	-3	8 9	3	
TSURUGA	19.98	334.0	4 35	5			
NAGANO	20.09	339.9	4 32	1	8 17	9	
MATUYAMA	20.12	324.6	4 40	9	8 11	2	
HUKUI	20.25	335.0	4 29	-3			
OOITA	20.34	321.3	4 31	-2	8 21	8	
TOYOOKA	20.42	331.4	4 29	-5	8 4	-10	
TOYAMA	20.46	337.8	4 34	-1	8 30	15	
HUKUSIMA	20.46	345.9	4 33	-2	8 23	8	
TAKADA	20.46	340.5	4 44	9			
KUMAMOTO	20.62	318.9	4 33	-3	9 11	53	
HIROSIMA	20.71	324.9	4 29	-8	8 18	-2	
UNZENDAKE	20.85	318.0	4 41	2			
SENDAI	20.86	347.2	4 38	-1	8 17	-6	
ISINOMAKI	20.93	348.2	4 39	0	8 23	-1	
YAMAGATA	20.97	346.0	4 39A	-1	8 43	18	
WAZIMA	21.17	338.1	4 57	15			
HUKUOKA	21.33	320.0	5 7	24	8 45	13	
MIZUSAWA	21.65	348.3	4 47	0	8 47	9	
SAKATA	21.71	345.5					5 6
MIYAKO	22.00	350.3	4 49	-1			
MORIOKA	22.19	348.8	4 51	-1	8 52	5	
AKITA	22.43	346.7	4 54A	0	9 2	10	
RABAUL	22.67	165.6	4 57	0			9 9
HATINOHE	22.94	350.0	4 58	-1	9 7	6	
AOMORI	23.35	348.7	5 4	1	9 20	12	
HWAL IEN	24.11	288.7	5 24	13			
HAKODATE	24.31	349.3	5 13	0			
URAKAWA	24.35	353.0	5 16	3			
HIROO	24.42	354.0	5 16	2			
TAMU	24.55	284.6	5 24	9			
MORI	24.63	349.1	5 17	1			
MANILA	24.75	266.2	5 21	4	9 45	13	
MURORAN	24.77	349.9	5 17	0			
BAGUIO CITY	24.94	270.5	5 18	-1	9 11	-24	
TOMAKOMAI	24.98	351.1	5 19	0			
KUSIRO	25.03	356.1	5 19	0			
OB IHIRO	25.07	354.0	5 21	1			
NEMURO	25.32	358.2	5 22	0			
SUTTSU	25.37	348.9	5 23	0			
SAPPORO	25.44	350.9	5 23	0			
RUMOE	26.27	351.8	5 33	2			
PORT MORESBY	27.18	178.9	5 39K	0	10 10	-2	6 17
HONIARA	30.21	153.2	6 8	1			
CHARTERS TS.	37.80	180.6	7 12	0	12 53	-5	
KOUMAC	41.99	154.9	7 46K	0	14 1	0	
NOLMEA	44.44	153.4	8 6K	0	14 38	2	
BRISBANE	45.46	172.3	8 10	-4	14 35	-16	
LEMBANG	45.72	240.9	8 15A	-2	14 56	1	
SUVA	47.58	137.3	9 36	65			
MEDAN	49.07	258.9	8 43A	0			15 43
SHILLONG	51.14	288.7	8 57	-2			
CHITTAGONG	51.43	284.6	9 1	0	16 24	9	
RIVERVIEW	51.66	175.2	9 2K	0	16 20	2	10 17 PCP
AFIAMALU	51.80	124.9	9 2	-1	16 2	-18	18 27 SS
HONOLULU	51.94	76.7	9 4	0			14 35
KIPAPA	52.00	76.5	9 3	-2			
CANBERRA	53.02	177.6	9 12A	-1	16 37	1	9 21 11 18 PP
ADELAIDE	53.16	188.1	9 13A	-1	16 40	2	12 5
HAWAII V.OB.	54.81	78.6	9 25	-1	17 2	2	
CHATRA	55.28	290.5	9 30	1			
MUNDARING	57.57	210.7	9 43A	-2			
MOORLANDS	60.08	179.5	10 2A	-1			14 21
FORT NELSON	60.57	179.4	10 7A	1	18 17	1	
KARAPIRO	61.86	154.3	10 17	2			
TONGARIRO	62.94	155.1	10 22	0			
TUAI	63.27	153.6	10 14	-10			
COBB RIVER	63.52	158.2	10 28	2			
COLLEGE	63.56	25.7	10 24	-2	18 53	0	
KAIMATA	64.35	159.9	10 43	12			
WELLINGTON	64.44	156.8	10 30	-2	19 2	-2	
GEBBIES PASS	65.81	159.6	10 40	-1			
ROXBURGH	66.40	162.8			19 29	1	

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1961		PAGE 824					
WARSAK DAM	68.05	300.0	10 54	-1	19 50	2	
SITKA	68.63	35.0	10 57	-1			
QUETTA	72.51	296.7	11 21	-1	20 38	-2	
VICTORIA	76.73	43.1	11 46	0			
CORVALLIS	77.67	47.0	11 57	6			
PENTICTON	78.99	41.7	11 58	-1			
SHASTA	79.24	50.7	12 0	0			
MINERAL	79.91	50.9	11 39A	-25			
SAN FRANCISCO	79.93	53.6	12 5	1			
RESOLUTE	79.94	13.7	12 3A	-1	22 4	3	
BERKELEY	80.05	53.5	12 4A	0	22 28	26	
CONCORD	80.17	53.3	12 7	2			
BRANNER	80.23	53.9	12 5A	0			
STA. CRUZ C.	80.47	54.2	12 8A	1			
LICK	80.66	53.8	12 8A	0			12 34
BANFF	81.00	39.2	12 22	13			
VINEYARD	81.02	54.4	12 10	1			
RENO	81.45	51.3	12 13	1			
FRESNO	82.23	54.0	12 16	0			
HUNGRY HORSE	82.80	41.6	12 19	0			
TEHERAN	83.85	305.4	12 23	-1			
PASADENA	84.27	56.1	12 25	-1	22 46	1	
EUREKA	84.30	50.5	12 26	0			12 41 15 57 PP
SODANKYLA	84.37	340.3	12 24A	-3	22 38	-8	
BUTTE	84.52	43.4	12 27	0	22 42	-6	
TROMSOE	85.24	343.9	12 29	-2	22 50	-5	16 17
BOZEMAN	85.64	43.4	12 33	0	23 2	3	
KAJAANI	85.83	337.3	12 29	-5	22 55	-6	
KIRUNA	85.99	342.1	12 32A	-3	22 57	-5	13 15
BOULDER CITY	86.29	53.5	12 37	1			
SALT LAKE C.	86.85	48.2	12 40	1			
GLEN CANYON	88.40	51.7	12 47	1			
FLAMING GRGE	88.52	47.4	12 46	-1			16 31 PP
NURMI JARVI	89.05	335.2	12 46K	-3	23 9	-22	
TUCSON	90.70	55.8	12 59	2	23 57	11	16 32 PP
TUCSON TELE.	90.76	55.7	12 59	2			
LARAMIE	91.00	45.8	13 0	2			16 52
SKALSTUGAN	91.37	341.3	12 58	-2			16 44 PP
RAPID CITY	91.38	42.6	13 0	0			
CAPE HALLETT	91.42	173.0	13 0	0			
UPPSALA	92.19	336.9	13 1A	-3	23 27	-32	13 27
GOTEBORG	95.79	337.4	13 17	-3			
SCOTT BASE	96.31	175.8	13 23	0	23 57	4	17 24 PP
WICHITA MTS.	98.91	49.2	13 34	0	24 9	3	17 44 PP
PRUHONICE	100.26	330.9	13 38	-3			17 46 PP
HALLE	100.34	333.1			24 15	2	17 44 PP
VIENNA-H.	100.58	328.8					17 4
ABERDEEN	100.75	343.3					18 23 PP
JENA	100.92	332.9	13 39	-5			17 48 PP
KASPERSCHE H.	101.31	330.7	13 44	-1			17 57 PP
FAYETTEVILLE	101.31	46.2	13 44K	-1	24 20	2	
MUNSTER	101.77	335.5					17 57
DURHAM	102.67	341.8	13 47A	-4			
BENSBERG	102.73	335.1					18 3 PP
LJUBLJANA	103.00	328.0					18 3 PP
STUTT GART	103.52	332.6	13 54	-1			17 23 PKP
TRIESTE	103.67	328.1					18 13 PP
MAWSON	104.08	203.1					18 14 PP
KEW	105.08	339.3					18 21 PP
PARIS	106.28	336.2	18 35	777			
CHIAVARI	106.81	329.5			26 3	80	16 56 PP
GARCHY	107.29	334.9	18 37	777			
WASHINGTON	110.20	35.1	19 29	65			
BAGNERES	111.92	334.1					19 17
TOLEDO	116.31	335.2	18 37	1			19 39 PP
SERRA PILAR	116.90	339.2	18 34K	-3			
BROKEN HILL	120.76	263.6	17 47	-58			
BULAWAYO	121.68	257.1	18 47	0			
GALERAZAMBA	129.73	58.6	19 7	5			22 21 SKP
SAN JUAN	131.62	43.4					22 28 PP
CHINCHINA	132.49	65.3	19 9K	1			22 33 PSKS
BOGOTA	134.00	64.7	19 24	14			
CARACAS	136.43	52.1	19 8	-7			40 15 SS
HUANCAYO	139.10	87.8	19 25	5			22 56
TRINIDAD	140.32	46.4	19 23	1			
MBOUR	144.04	332.3	19 28	0			
LA PAZ	146.78	92.9	19 36A	3			19 41 PKP2

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1961

PAGE 825

AUGUST 27 20.H 56.M 18.S EPICENTRE 47.03 154.16 DEPTH= 13.KM

A=-0.61565 B= 0.29811 C= 0.72946 D= 0.4358 E= 0.9000
G=-0.6565 H= 0.3179 K=-0.6840 HT= -4.3

SE= 2.51

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
SEVERO-KUR.	3.86	18.6	0	59	-1	1	44	-2				
KURILSK	4.73	249.9	1	13	0	2	13	5				
PETROPAVLOVK	6.65	24.1	1	38	-2							
Y.-SAKHLINSK	7.82	274.1	1	57	1							
UGLEGORSK	8.36	288.6	2	7	4							
OKHA	9.70	316.4	2	23	1							
MAGADAN	12.70	352.2	3	1	-2							
TUKUBASAN	15.05	229.2	3	28K	-6							
MATUSIRO	15.83	234.2	3	40K	-4	6	53	14				
VLADIVOSTOK	16.19	264.1	3	49	1	6	49	1				
CHANGCHUN	20.45	271.6	4	39	0	8	41	18				
YAKUTSK	20.46	326.1	4	36	-4	8	22	-1				
PEKING	28.21	269.6	5	54	0							
COLLEGE	35.48	38.6	6	57	-1							
SIAN	36.14	265.9	7	3A	0							
LANCHOW	38.63	272.2	7	24A	0							
CHENG TU	41.60	265.2	7	48	-1							
KHEYS	44.96	346.7	8	8	-8							
KUNMING	46.00	260.1	8	24	0							
RESOLUTE	50.34	18.8	8	58K	0							
ALMATA	52.50	296.1	9	14	-1							
SHILLONG	53.10	269.1	9	17A	-2							
SVERDLOVSK	54.11	317.4	9	22	-4							
FRUNSE	54.17	296.8	9	25	-2							
PENTICTON	54.47	53.4	9	27	-2							
APATITY	57.37	336.9	9	47	-3							
SODANKYLA	59.25	339.1	10	0A	-3							
BUTTE	60.26	53.2	10	9	-1							
KIRUNA	60.30	341.6	10	8	-2							
BOZEMAN	61.31	52.8	10	15	-2							
WARSAK DAM	61.37	290.2	10	6	-12							
KAJAANI	61.54	336.3	10	12	-7							
EUREKA	62.41	60.8	10	25	0					11	5	
MOSCOW	64.62	325.9	10	35	-4							
NURMI JARVI	65.25	335.1	10	41A	-2					11	13	PCP
FLAMING GRGE	65.30	56.0	10	42	-1							
BOULDER CITY	65.36	63.2	10	44	0							
SKALSTUGAN	65.69	342.4	10	44A	-2							
RAPID CITY	66.56	50.0	10	51	0							
GLEN CANYON	66.66	60.4	10	51	-1							
QUETTA	66.82	289.8	10	52A	-1							
CHARTERS TS.	67.19	188.1	10	53	-2							
LEMBANG	67.60	231.2	10	57K	-1							
UPPSALA	67.72	338.0	10	57A	-2							
REYKJAVIK	69.14	358.2	10	55	-13							
BERGEN	69.97	344.1	11	13	0							
TUCSON	70.32	63.7	11	15	0							
GOTEBORG	71.02	339.6	11	18	-1							
TEHERAN	72.47	303.7	11	28	0							
COPENHAGEN	72.72	338.4	11	28A	-1							
SIMFEROPOL	74.31	320.3	11	37	-2							
KISHINEV	74.85	324.7	11	39	-3							
WICHITA MTS.	75.73	54.3	11	46	-1	21	30	3		15	11	
RACIBORZ	76.05	332.5	11	47	-1					11	59	PCP
HALLE	76.62	336.8	11	50	-2					12	2	PCP
FAYETTEVILLE	77.09	50.6	11	54K	0							
JENA	77.23	336.8	11	54	-1					12	46	
PRUHONICE	77.25	334.6	11	54	-1					15	20	
SHAWINIGAN	78.14	31.0	12	0	0							
VIENNA-H.	78.23	332.7	12	0	-1							
KASPERSKE H.	78.29	334.8	12	0	-1					15	25	
BENSBERG	78.33	339.4	12	0	-1					12	28	
HEIDELBERG	79.38	337.9	12	6	-1							
STUTTGART	79.82	337.3	12	8	-1							
KARLSRUHE	79.82	337.9	12	11	2					12	59	
STRASBOURG	80.38	338.1	12	12	0							
LJUBLJANA	80.77	332.8	12	13	-1							

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1961

PAGE 826

TRIESTE	81.37	333.1	12 18	1	
PARIS	81.41	341.5	12 19	1	
FOLINIÈRE	82.07	343.4	12 21	0	
BESANCON	82.07	338.7	12 20	-1	
PALISADES	82.48	34.6			30 22
GARCHY	82.73	340.6	12 24	-1	12 51
ROSELEND	83.28	337.0	12 28	1	
FLORENCE X.	83.82	333.9	12 30	0	
ATHENS	84.48	322.8	12 5	-28	
ISOLA	84.65	336.9	12 35	1	12 46
MONACO	84.96	336.5	12 35	-1	
SCOTT BASE	124.85	176.8	18 58	-2	19 12

AUGUST 27 22.H 8.M 48.S EPICENTRE 35.59 23.41 DEPTH= 62.KM

A= 0.74801 B= 0.32378 C= 0.57936 D= 0.3972 E=-0.9177
G= 0.5317 H= 0.2301 K=-0.8151 HT= -0.1

DEPTH OF FOCUS= 0.005R

SE= 3.13

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ATHENS	2.39	6.0	0	40A	2	1	10	3			1	18 SG
REGGIO CALA.	6.70	294.2	1	45	7						2	45
MESSINA	6.81	294.8	1	35	-5	2	48	-9			1	47 P*
TARANTO	6.88	316.9	1	47	6						3	38 S*
ISTANBUL UN.	6.99	37.2	1	44K	2	3	51	50				
ISTANBUL KA.	7.05	37.4	1	44	1	3	13	10			1	59 P*
SOFIA	7.10	359.5	1	46	2	3	11	7				
TITOGRAD	7.55	336.0	1	53	3						2	24 PG
HELWAN	8.78	128.3	2	1	-6	3	30	-15			4	6
BUCHAREST	9.06	12.4	2	10	-1							
BELGRADE	9.49	347.1	2	38K	21						5	29 SG
TIMI SOARA	10.29	351.4									6	1
KSARA	10.42	96.2	2	35	6	4	30	4				
JERUSALEM	10.55	107.7	2	25	-6	4	15	-14				
ROME	10.60	309.7	2	50	18	4	57	27			3	49
IASI	12.01	13.8	2	50	-1							
BUDAPEST	12.32	345.9	3	22	27	5	33	22			3	35 PPP
SIMFEROPOL	12.41	37.9	2	56	0	5	26	12				
LJUBLJANA	12.42	330.0	2	52	-4	5	13	-1			6	57 SGSG
FLORENCE X.	12.42	314.8	2	51	-5	5	16	2				
TRIESTE	12.43	326.9	2	58	2	5	23	9			7	1 SGSGSG
PADOVA	13.15	321.7	3	28	22	5	56	25			4	36
VIENNA-H.	13.68	339.8	3	10	-3	5	44	0				
CHIAVARI	13.87	313.2	2	32	-43							
NIEDZIKA	14.01	351.6	3	16	-1							
LWOW	14.23	1.6	3	26	6							
KRAKOW	14.67	351.1	3	23	-3						6	38
MONACO	14.73	308.3	3	24	-2							
SOTCHI	14.88	52.6									3	28 PP
RACIBORZ	14.97	346.9									3	30 PP
CHORZOW	15.04	349.0									3	35 PPP
ISOLA	15.19	309.3	3	14	-18						3	59 SP
CHUR	15.32	321.5	3	37	3	6	28	6				
KASPERSKE H.	15.34	334.9	3	31	-3	6	49	26			9	14
ROSELEND	15.52	314.4	3	49	12						6	48
PRUHONICE	15.77	338.5	3	38A	-2	6	43	10				
PRAGUE	15.88	338.4	3	40	-1							
CHEB	16.56	334.4	3	54	4						4	37
WARSAW	16.72	354.9	3	44	-8						4	0 PP
BASLE	16.77	320.2	3	52K	0						7	8
NEUCHATEL	16.78	317.8	3	54	1							
STUTTGART	16.79	326.0	3	52	-1	7	7	11			4	2 PP
KARLSRUHE	17.36	325.2	3	56	-4	7	20	11				
STRASBOURG	17.37	323.2	3	57	-3	7	12	3			5	39
BESANCON	17.46	317.2	4	3	2							
JENA	17.55	334.5	4	1	-1	7	22	9			4	13 PP
TIFLIS	17.78	63.4	4	10	5							
HALLE	17.91	336.2	4	7	1	7	29	8				
CLERMONT-FD.	18.40	309.7	4	13	1							
GORIS	18.58	71.0	4	15	0							
TORTOSA	18.73	293.1									4	35
GARCHY	19.14	313.8	4	21	0						6	12
BENSBERG	19.32	327.7	4	22A	-1	8	6	14			4	36 PP

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1961		PAGE 827									
BAGNERES	19.44	299.6	4 23	-1							4 45
MUNSTER	19.88	330.3	4 30	1							
MAKHACH-KALA	20.01	61.1	4 31	1	8 22	15					
PARIS	20.28	317.1	4 33	0							6 24
ALMERIA	20.90	281.1	4 37	-3	8 35	11					4 56 PP
WITTEVEEN	20.90	330.7	4 41	1							
DE BILT	21.00	327.4	4 43	2	8 36	10					
COPENHAGEN	21.45	342.9	4 45K	0	8 39	5					9 4 SS
GRANADA	21.78	282.2	5 12	24	8 50	10					
FOLINIERE	21.95	314.2	4 50	0							
TOLEDO	22.09	289.4	4 52	0	8 48	2					5 17 PP
MOSCOW	22.38	21.4	4 55	1	8 53	2					
TEHERAN	22.71	81.4	4 59	1	9 4	7					
KEW	23.25	320.4	5 5	2	9 13	6					
GOTEBORG	23.40	344.5	5 4	0							5 30 PP
UPPSALA	24.57	353.0	5 15K	-1	9 32	3					5 39 PP
PULKOVO	24.61	8.4	5 15	-1	9 30	0					
NURMI JARVI	24.95	1.5	5 18K	-1	9 40	4					
SERRA PILAR	25.61	292.1	5 25A	0						5 46	6 9 PP
BERGEN	27.44	340.4	6 0	18							
KAJAANI	28.64	3.9	5 48	-5							
SKALSTUGAN	28.85	349.7	5 54K	-1							
SODANKYLA	31.88	2.4	6 20	-2							
KIRUNA	32.33	357.9	6 24K	-2							13 52 SSS
SVERDLOVSK	32.78	37.9	6 29	-1							
TROMSOE	34.19	357.2	6 40	-2							
TASHKENT	36.05	66.8	6 56	-2	12 35	3					
QUETTA	36.74	85.8	7 4A	1	12 45	3					
WARSAK DAM	39.26	77.9	7 25	1	13 19	-1					
FRUNSE	39.82	63.6	7 30A	1							
ALMATA	41.46	62.5	7 45	2							
SEMIPALATNSK	43.08	51.7	7 55	-1							
NEW DELHI	45.64	83.0	8 19	3							14 54
KHEYS	47.04	7.3	8 16	-11							
BROKEN HILL	49.99	173.6	8 51	1							
CHATRA	54.40	80.3	9 23A	0							
BULAWAYO	55.64	174.1	9 33	1							
IRKUTSK	57.58	46.0	9 35	-11							
SHILLONG	58.74	79.4	9 52A	-2							
CHITTAGONG	60.22	82.7	9 18	-46							
ULAN-BATOR	60.61	50.1	10 7	0							
LANCHOW	63.30	63.4	10 25A	0	18 54	3					
HALI FAX	64.15	307.6	10 31	0							
SIAN	67.83	63.1	10 55A	1							
SHAWINIGAN	68.98	312.7	11 2K	1							
BREBEUF	70.02	312.0	11 9	2							
PEKING	70.06	54.7	11 7	-1							
OTTAWA	71.33	312.8	11 17K	2							
PALISADES	72.53	308.1			20 44	3					
CHANGCHUN	73.85	47.5	11 34	4							
VLADIVOSTOK	78.16	45.2	11 54	0							
SAN JUAN	79.16	284.8	12 13	13							
COLLEGE	79.64	356.2	12 3	0							
MATUSIRO	86.10	47.1	12 36	0							
RAPID CITY	87.06	324.6	12 41	1							
HUNGRY HORSE	88.21	333.2	12 48	2							
BOZEMAN	89.27	330.0	12 53	2							
PENTICTON	89.31	336.8	12 52	1							
BUTTE	89.59	331.0	12 39	-13							
LARAMIE	90.30	324.2	12 58	2							
WICHITA MTS.	91.56	315.7	13 3	1							15 20
FLAMING GRGE	92.38	326.2	12 57	-8							
SOUTH POLE	125.41	180.0	18 55	1							
CHARTERS TS.	127.84	88.8	19 2	3							
CANBERRA	136.17	106.2	19 18	3							22 45 PKS
NOUMEA	145.26	77.7	19 34	3							

AUGUST 28 6.H 28.M 23.S EPICENTRE -15.20 -70.52 DEPTH= 181.KM

A= 0.32202 B=-0.91016 C=-0.26059 D=-0.9427 E=-0.3335
G=-0.0869 H= 0.2457 K=-0.9655 HT= 5.7

DEPTH OF FOCUS= 0.023R

SE= 1.92

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

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1961

PAGE 828

	DEG.	DEG.	M	S	S	M	S	S	M	S	M	S
LA PAZ	2.63	119.6	0	49K	4	2	55	95				
ANTOFAGASTA	8.45	179.4	1	55	-5	4	19	45				
BOGOTA	20.01	349.6	4	20	0	7	50	0			5	22 PPP
CHINCHINA	20.67	345.5	4	25K	-2	8	8	6			5	40 PPP
FUQUENE	20.73	351.0	4	26	-2						5	32 PPP
BALBOA HTS.	25.62	339.0	5	17	3							
CARACAS	25.78	8.1	5	15A	-1	9	30	1				
GALERAZAMBA	26.24	349.4	5	19	-1	9	43	6				
TRINIDAD	27.23	19.9	5	29	0						12	10
GRENADA	28.44	18.3	5	40	0						10	19
ST. VINCENT	29.64	18.5	5	51A	0							
BARBADOS	30.14	21.6	5	57	2							
DOMINICA	31.62	17.0	6	6	-2							
ANTIGUA	33.26	15.2	6	21	-1							
SAN JUAN	33.65	7.5	6	22	-3	11	29	-5			7	49 PP
PORT STANLEY	37.79	167.2	7	0	0							
TACUBAYA	44.48	319.7	7	58	3							
ARGENTINE I.	50.18	176.6	8	37	-2							
FAYETTEVILLE	55.71	336.8	9	19	-1						18	49 SCS
PALISADES	56.01	356.9	9	21	-1	16	53	-1			18	19 PPS
WICHITA MTS.	56.36	332.2	9	23A	-1	16	59	0			18	53 SCS
HALIFAX	59.86	5.7	9	47A	-2							
OTTAWA	60.50	355.8	9	50	-3							
TUCSON TELE.	60.96	321.3	9	55	-1							
TUCSON	60.96	321.2	9	56	0							
SHAWINIGAN	61.50	358.2	9	58A	-2							
GLEN CANYON	64.73	324.4	10	22	1							
BOULDER CITY	65.93	321.6	10	29	0				11	14		
RAPID CITY	66.11	334.8	10	29	-1	19	4	2				
FLAMING GRGE	66.46	328.8	10	31	-1	19	7	1	12	14	12	58
PASADENA	66.81	318.2	10	34	0	19	12	2				
SALT LAKE C.	67.60	327.1	10	39	0				11	19		
EUREKA	68.95	323.8	10	47	0				11	32	11	4 PCP
BOZEMAN	70.81	331.1	10	59	0							
RENO	71.24	321.7	11	3	2							
CONCORD	71.65	319.3	11	5	1							
BERKELEY	71.71	319.1	11	5	1							
BUTTE	71.78	330.6	11	4	0				11	50		
MINERAL	72.82	321.5	10	48	-22							
SHASTA	73.51	321.4	11	14	-1							
HUNGRY HORSE	74.16	331.5	11	18	0							
SOUTH POLE	74.90	180.0	11	22	0							
CORVALLIS	76.41	324.2	11	38	7							
PENTICTON	77.49	329.6	11	38	1							
VICTORIA	78.90	327.3	11	47	2							
SCOTT BASE	81.72	190.4	12	1K	2	22	0	5	12	45	12	15 PCP
CAPE HALLETT	84.04	195.6	12	11A	0				12	58		
KIMBERLEY	87.34	118.9	12	28A	1							
FOLINIERE	88.70	38.5	12	35	1							
MAWSON	90.78	163.8	12	44	0							
RESOLUTE	91.00	353.7	12	45	0							
BULAWAYO	93.14	111.7	12	56K	2							
TRIESTE	96.78	44.7									17	5 PP
LJUBLJANA	97.40	44.4									17	11 PP
KASPERSKE H.	97.54	41.2									17	12 PP
COLLEGE	98.34	335.1	13	17	-1						17	19 PP
KARAPIRO	98.65	227.0	13	2	-18							
MUNDARING	132.66	187.8	18	51K	-2							
QUETTA	138.28	61.6	19	7	3							
ALMATA	140.58	38.2	19	12	4							
POONA	145.77	79.3	19	20A	3							
GUAM	145.82	271.7	19	19	2							
VLADIVOSTOK	146.20	329.9	19	20	2							
MATUSIRO	146.75	315.1	19	20K	1				20	11	22	44
CHATRA	156.22	57.3	19	36	4							
SHILLONG	160.55	55.2	19	40K	3							

AUGUST 28 7.H 41.M 27.S EPICENTRE -12.83 169.46 DEPTH= 644.KM

A=-0.95891 B= 0.17837 C=-0.22061 D= 0.1829 E= 0.9831
G= 0.2169 H=-0.0403 K=-0.9754 HT= 6.1

DEPTH OF FOCUS= 0.096R

SE= 1.34

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1961

PAGE 829

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
HONIARA	9.93	288.9	2	20	1	4	14	4				
SUVA	10.13	122.6	2	21	0	4	16	2				
AFIAMALU	18.28	95.5	3	37A	-1							
RABAUL	19.12	295.1	3	44	-1							
RAOUL ISLAND	20.11	146.3	3	53	-1							
PORT MORESBY	22.15	276.6	4	14K	1	7	36	1				
CHARTERS TS.	23.38	249.0	4	24K	0	7	52	-3				
KARAPIRO	25.58	168.8	4	43A	0							
RIVERVIEW	26.74	215.5	4	53K	0							
TUAI	26.75	166.6	4	51A	-2							
CHATEAU	26.81	169.5	4	54	0							
COBB RIVER	28.29	174.8	5	8	2	9	10	-1				
WELLINGTON	28.72	171.7	5	9A	-1	9	13	-5				
CANBERRA	29.04	216.1	5	13K	0						7	59 PCP
KAIMATA	29.63	177.1	5	20	2	9	30	-2				
GEBBIES PASS	30.88	175.5	5	27	-1	9	47	-4				
MOORLANDS	35.27	209.1	6	6A	1							
ADELAIDE	35.48	226.3	6	8K	1						11	55
FORT NELSON	35.57	208.4	6	8K	1						8	17 PCP
GUAM	35.81	315.9	6	9	0				7	52		
MUNDARING	52.25	239.5	8	11K	-5							
MATUSIRO	57.27	330.2	8	49A	-1				10	43		
CAPE HALLETT	59.45	179.7	9	5	0							
LEMBANG	61.11	269.2	9	17	1							
SCOTT BASE	65.04	180.6	9	41A	0				11	47	10	8 PCP
SOUTH POLE	77.26	180.0	10	51	0							
BERKELEY	81.32	48.0	11	13	1							
SHASTA	82.37	45.4	11	18K	0							
MINERAL	82.78	46.0	10	56A	-24							
PASADENA	83.01	52.8	11	20	-1							
RENO	83.74	47.3	11	25	1							
COLLEGE	83.88	16.9	11	22	-3						12	1
MAWSON	84.43	201.7	11	27	-1							
BOULDER CITY	86.20	52.0	11	37	1				13	53		
EUREKA	86.49	48.4	11	38	1				13	54	29	30 PKKP
PENTICTON	87.60	38.2	11	43	0							
TUCSON	88.25	56.5	11	48	2				14	4		
TUCSON TELE.	88.37	56.5	11	47	1				14	4		
GLEN CANYON	88.99	51.8	11	50	1				14	6		
HUNGRY HORSE	90.72	40.4	11	57	0				14	13	29	5 PKKP
FLAMING GRGE	91.73	48.5	12	1	-1				14	18	29	5 PKKP
WICHITA MTS.	98.76	56.4	12	33	-1				14	52	28	59 PKKP
KIRUNA	121.43	346.8	17	41	-1							
KAJAANI	122.33	341.2	17	39	-5							
NURMIJARVI	125.88	339.4	17	51	1							
SAN JUAN	126.35	76.6	17	51	0							
KIMBERLEY	126.39	219.1	17	52K	1							
SKALSTUGAN	126.83	347.5	17	52	0							
UPPSALA	128.65	342.2									20	18 SKP
BULAWAYO	129.44	230.2									20	23 PP
TRINIDAD	130.22	86.8									20	24
GOTEBORG	132.06	343.9									20	30 SKP
NIEDZIKA	135.55	331.4									20	42
KASPERSKE H.	138.69	336.0	18	15	0						20	51
STUTTART	140.58	339.3	18	18	-1							
LJUBLJANA	140.68	332.3	17	21	-58						20	57 PP
FOLINIERE	143.21	348.9	18	22	-1							
GARCHY	143.81	344.3	18	24	0							
MONACO	145.54	336.7	18	26	-1							
BAGNERES	148.48	344.9	18	36	5							

AUGUST 28 9.H 44.M 13.S EPICENTRE -18.92-177.90 DEPTH= 521.KM

A=-0.94599 B=-0.03475 C=-0.32232 D=-0.0367 E= 0.9993
G= 0.3221 H= 0.0118 K=-0.9466 HT= 4.9

DEPTH OF FOCUS= 0.077R

SE= 1.81

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
AFIAMALU	7.70	50.6	1	53K	-2	3	20	-6				

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1961					PAGE 830		
RAOUL ISLAND	10.28	180.1			4 18	4	
PORT VILA	13.14	273.0	2 52	1	6 22	74	
NOUMEA	15.04	254.4	3 15	5	5 53	10	
BRISBANE	28.19	247.2	5 10	-2			
RIVERVIEW	31.31	235.5	5 39	1			
RABAU	32.69	292.9			10 28	-3	
CANBERRA	33.49	234.0	5 57K	0			8 23 PCP
CHARTERS TS.	33.77	262.0	5 59	0	10 44	-3	
PORT MORESBY	35.13	280.7	6 11K	1	11 7	0	
MOORLANDS	37.69	223.9	6 31A	0			
FORT NELSON	37.82	223.1	6 32A	0			
ADELAIDE	41.50	238.4	7 2K	0	12 39	-2	
HONOLULU	44.42	26.8	7 25	0			
KIPAPA	44.56	26.8	7 26	0			
GUAM	48.90	308.4	7 58	-1			
SCOTT BASE	59.44	183.7	9 15K	1			11 2
MUNDARING	60.10	243.5	9 13K	-5			
MATUSIRO	69.00	323.3	10 13K	-1			12 9
SOUTH POLE	71.20	180.0	10 27	0			
LEMBANG	73.17	268.4	10 39K	0			
SAN FRANCISCO	76.77	42.1	10 58K	0			
BERKELEY	76.95	42.1	10 59K	0			
PASADENA	77.55	47.2	11 3K	0			
FRESNO	77.90	44.2	11 5K	0			
SHASTA	78.57	39.7	11 8K	0			
MINERAL	78.84	40.4	10 46K	-24			
RENO	79.48	41.9	11 13	0			
CORVALLIS	80.42	36.2	11 25	7			
BOULDER CITY	80.84	47.1	11 21	1			
TUCSON	81.87	52.0	11 27	2			
EUREKA	81.91	43.6	11 25	0			29 53 PKKP
TUCSON TELE.	82.00	52.0	11 28	2	13 25		29 52 PKKP
ARGENTINE I.	82.38	157.1	11 28	0			
VICTORIA	82.82	33.1	11 29K	-1			
MAWSON	83.07	199.7	11 30	-1			
GLEN CANYON	83.59	47.6	11 35	1	13 31		
SALT LAKE C.	85.28	44.1	11 43	1	13 32		
PENTICTON	85.30	34.0	11 41K	-1			
COLLEGE	86.65	12.4	11 46	-3	13 44		19 13
FLAMING GRGE	86.99	44.9	11 49	-1			
BUTTE	87.47	39.3	11 52	0	13 50		
HUNGRY HORSE	87.82	36.8	11 53	-1			
BOZEMAN	88.21	40.2	11 56	0			
BANFF	88.50	33.9	11 58K	1			
WICHITA MTS.	92.18	54.1	12 14K	0			
RAPID CITY	92.49	44.1	12 15	-1	14 18		29 26 PKKP
SHILLONG	98.15	294.2	12 40K	-1			
QUETTA	120.64	294.4	17 53	1			
KIMBERLEY	127.79	205.4	18 7K	1			
SODANKYLA	129.09	348.1	18 7	-1			
KIRUNA	129.74	351.1	18 8	-2			
KAJAANI	131.66	345.3	18 4	-9			
BULAWAYO	133.29	215.2	18 16K	0			
SKALSTUGAN	134.84	353.6	18 20	1			
NURMI JARVI	135.45	344.3	18 19	-1			
UPPSALA	137.62	348.4	18 16	-8			
BROKEN HILL	137.88	219.9	18 40	15			
GOTEBORG	140.59	351.7	18 23	-7			
DURHAM	144.10	3.6	18 34A	-2			
KRAKOW	145.83	339.4	18 39	0			
WITTEVEEN	145.98	355.0	18 41	2			
NIEDZIKA	146.23	338.5	18 42K	2			19 5
RACIBORZ	146.35	341.2	18 41	1			19 3
LWIRO	146.36	234.1	18 44K	4			
SKALNATE PL.	146.46	338.3	18 42	2			
HALLE	146.57	348.8	18 42	2			
MUNSTER	146.74	353.8	18 43	3			21 55 PP
JENA	147.19	348.9	18 47	6			
PRUHONICE	147.45	345.0	18 45K	4	20 54		19 17
KEW	147.47	2.8	18 44	3			
BENSBERG	147.78	354.0	18 45	3	20 54		
BRATISLAVA	148.38	340.7	18 45	2			
KASPERSKE H.	148.47	345.5	18 43K	0			
HEIDELBERG	149.13	351.6	18 49	5			
STUTTGART	149.66	350.6	18 45	0			
TUBINGEN	149.93	350.7	18 51	6	20 57		
STRASBOURG	150.06	352.5	18 46	1			
FOLINIERE	150.15	3.4	18 46	1			
SOFIA	150.26	327.4	18 52	7			

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1961

PAGE 831

EBINGEN	150.29	350.7	18 51	6		
LJUBLJANA	151.06	342.0	18 47K	0	20 59	
HELWAN	151.32	297.9	18 54	7		
BESANCON	151.57	354.4	18 55	8		
TRIESTE	151.65	342.7			18 55	PKP2
GARCHY	151.71	358.6	18 55	7	19 18	22 43 PP
ROSELEND	153.11	351.4	18 51	1		
CLERMONT-FD.	153.21	358.4	19 0	10		
FLORENCE X.	154.05	344.7	18 43	-8		
MONACO	154.86	350.9	18 52	0		
BAGNERES	155.87	3.5	19 22	29		

AUGUST 28 20.H 26.M 2.S EPICENTRE -23.00-113.75 DEPTH= 33.KM

A=-0.37106 B=-0.84343 C=-0.38851 D=-0.9153 E= 0.4027
G= 0.1565 H= 0.3556 K=-0.9214 HT= 3.9

SE= 1.65

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.		
			M	S		M	S	S	M	S	M	S	
HUANCAYO	38.11	80.0	7	19	1						17	11	SSS
OAXACA	43.10	24.1									21	28	
LA PAZ	43.28	89.9	8	0	0	14	34	9					
TACUBAYA	44.47	19.8									21	38	
GUADALAJARA	44.59	14.0									21	10	
VERA CRUZ	45.33	23.7									22	2	
CHINCHINA	46.47	58.0	8	23	-3	15	16	5			18	27	SS
BOGOTA	47.48	59.7	8	36	2	15	31	6					
FUQUENE	48.26	59.1	8	38	-2								
GALERAZAMBA	50.46	52.4				16	19	12			16	55	PPS
ARGENTINE I.	52.81	156.3	9	13	-1								
TUCSON	55.01	3.0	9	33	2	17	22	13					
TUCSON TELE.	55.10	3.1	9	31	0								
AFIAMALU	55.49	268.6	9	35	1								
CARACAS	56.65	59.2				17	34	3			23	58	SSS
PASADENA	56.99	355.6	9	45	0	17	44	9					
BYRD STATION	57.15	181.2	9	44	-2						10	40	
BOULDER CITY	58.67	359.0	9	57	0								
WICHITA MTS.	59.18	14.5	9	57	-3	18	11	7			22	8	SS
GLEN CANYON	59.68	2.0	10	4	0								
FRESNO	59.72	354.4	10	4	0								
LICK	60.47	352.8	10	9K	0								
FAYETTEVILLE	61.61	18.0	10	14A	-3								
EUREKA	62.19	358.1	10	20	-1						12	47	PP
MINERAL	63.45	353.3	10	7A	-22								
SALT LAKE C.	63.47	1.6	10	28	-1								
FLAMING GRGE	63.73	3.7	10	28	-3								
SHASTA	63.88	352.7	10	30	-2								
CAPE HALLETT	64.03	199.3	10	32K	-1	19	10	5					
COLUMBIA	64.67	29.8	10	34	-3								
SCOTT BASE	65.46	193.2	10	41A	-1						13	23	PP
RAPID CITY	67.45	8.2	10	53	-2								
BOZEMAN	68.38	2.0	10	59	-1								
BUTTE	68.70	0.9	11	3	1								
HUNGRY HORSE	71.02	359.8	12	28	71								
PENNSYLVANIA	71.70	27.9									20	43	*SS
VICTORIA	71.72	353.2	11	20	-1								
PENTICTON	72.18	356.0	11	23	0								
PALISADES	73.65	30.3	11	30	-2	21	4	5			16	8	PP
BANFF	73.86	358.8	11	32	-1								
SHAWINIGAN	78.52	27.5	11	58A	-2								
RIVERVIEW	81.54	237.0	12	16	0								
CANBERRA	82.62	234.9	12	22A	1								
BRISBANE	82.64	243.5	12	22	1	22	48	13					
MIRNY	88.47	190.4	12	55	5								
MAWSON	89.64	178.7	12	55	-1								
COLLEGE	91.45	346.2	13	3	-1								
RABAU	92.13	264.6	13	8	1								
MATUSIRO	117.40	300.4	18	54	12						29	49	PS
STUTTGART	128.58	45.2	19	3	-1								
SODANKYLA	129.26	18.6	19	0	-5								
LEMBANG	129.85	238.7	19	7A	1								
COLLMBERG	130.43	41.4	19	8	0								
KASPERSKE H.	131.30	44.0	19	10	1								
ROME	131.68	53.7									22	40	

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1961

PAGE 832

PRUHONICE	131.71	42.7	19 12	2	22 42	PKS
LJUBLJANA	132.55	47.9	19 14	2		
NURMIJARVI	132.73	26.6	19 11	-1		
NIEDZIKA	135.46	42.0	19 18	1	19 40	
LWIRO	135.71	119.5	19 22K	5		
ULAN-BATOR	139.27	317.8	19 26	2		
MOSCOW	141.07	25.5	19 28	1		
MEDAN	143.17	243.2	19 30	-1		
SIMFEROPOL	145.86	42.3	19 37K	2		
SVERDLOVSK	145.96	5.5	19 36	0		
HELWAN	148.08	70.1	19 43	4	21 10	
KSARA	151.29	61.2	19 0	-44		
TIFLIS	154.11	38.8	19 52	4		
SHILLONG	156.52	281.5	20 23K	32		
FRUNSE	159.04	342.6	19 57	3		
CHATRA	160.65	285.7	20 41	45		
ANDIJAN	161.57	345.2	20 0	3		
TEHERAN	161.89	42.2	20 1	4		
STALINABAD	164.33	352.7	20 3	3		
WARSAK DAM	168.10	338.2	20 4	1		
QUETTA	172.82	355.2	20 8	2	25 23	PP

AUGUST 28 21.H 27.M 6.S EPICENTRE -14.45 -74.85 DEPTH= 0.KM

A= 0.25324 B=-0.93508 C=-0.24800 D=-0.9652 E=-0.2614
G=-0.0648 H= 0.2394 K=-0.9688 HT= 5.9

SE= 3.17

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
LA PAZ	6.79	108.3	1	40A	-3	2	30	-32				
BOGOTA	18.96	2.4	4	28	3	7	57	3			4	53
CHINCHINA	19.31	357.7	4	29A	0	8	3	2			5	1
FUQUENE	19.82	3.3	4	34A	-1						5	7
BALBOA HTS.	23.72	348.4	5	16	2							
GALERAZAMBA	25.07	359.0	5	35	8	9	50	0			6	7
CARACAS	26.00	18.0	5	33	-3	10	6	1				
TRINIDAD	28.28	28.8									11	37
SAN JUAN	33.74	15.0	6	39	-6							
PORT STANLEY	39.58	163.4	7	35	1						7	59
COLUMBIA	48.54	353.1	8	44	-2							
ARGENTINE I.	51.25	174.3	9	8	1							
FAYETTEVILLE	53.49	340.5	9	22K	-2	16	50	-6	9	46		
WICHITA MTS.	53.85	335.7	9	24	-3	16	54	-7			10	29
PENNSYLVANIA	55.04	357.2	9	32	-3	17	9	-8			9	52
PALISADES	55.18	0.9	9	32	-4	17	9	-10			9	58
TUCSON	57.82	324.0	9	54	-1							
TUCSON TELE.	57.83	324.1	9	56	1				10	21		
OTTAWA	59.57	359.3	10	3	-4							
HALIFAX	59.67	9.3	10	4A	-4							
SHAWINIGAN	60.74	1.6	10	12	-3							
GLEN CANYON	61.76	327.1	10	23	1							
BOULDER CITY	62.81	324.1	10	30	1							
PASADENA	63.52	320.5	10	35	1				11	0		
FLAMING GRGE	63.72	331.4	10	34	-1							
RAPID CITY	63.74	337.6	10	34	-1							
MBOUR	64.02	65.9	10	50	13						18	58
SALT LAKE C.	64.77	329.6	10	42	0							
EUREKA	65.94	326.1	10	50	0				11	15		
FRESNO	66.25	321.7	10	51	-1							
LICK	67.74	321.1	11	2A	1						11	29
RENO	68.11	323.9	11	4	1							
BOZEMAN	68.20	333.5	11	4	0							
CONCORD	68.41	321.4	11	7	2							
BERKELEY	68.46	321.2	11	6	0							
BUTTE	69.14	332.9	11	9	-1							
MINERAL	69.68	323.6	10	50K	-23							
SHASTA	70.36	323.4	11	16	-1							
CORVALLIS	73.40	326.1	11	43	8							
BANFF	74.35	334.8	11	40	-1							
PENTICTON	74.78	331.5	11	43K	0							
SOUTH POLE	75.64	180.0	11	48	0				12	17		
VICTORIA	76.06	329.1	11	51	0							
SCOTT BASE	81.68	190.9	12	23A	2						12	59
SERRA PILAR	82.40	44.2	12	20A	-5							*SP

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1961

PAGE 833

CAPE HALLETT	83.61	196.2	12	33A	2				
BAGNERES	89.14	45.1	12	53	-5				
FOLINIERE	90.76	39.6	13	1	-5				
KIMBERLEY	91.35	120.0	13	3	-6				
CLERMONT-FD.	92.05	43.2	13	8	-4				
GARCHY	92.50	41.8	13	9	-5				
MAWSON	92.62	165.0	13	12	-2	13	38	15	54 PP
ISOLA	94.24	45.6	13	17	-5				
MONACO	94.38	46.1	13	17	-6				
COLLEGE	95.92	335.8	13	27	-3	13	53	14	9 *SP
BENSBERG	96.14	39.0	13	26	-5				
STUTTGART	96.91	41.5	13	29	-5			14	13
BULAWAYO	97.29	112.9	13	32K	-4				
KASPERSKE H.	99.76	41.8	13	42	-5			14	7
COLLMBERG	99.80	39.5	13	43	-4	14	8		
CHARTERS TS.	126.97	230.7	19	7	1				
PORT MORESBY	132.08	242.8	19	18	2			19	46
QUETTA	141.56	59.5	19	32	-1			22	31 PP
MATUSIRO	143.22	312.8	19	32	-4				
WARSAK DAM	143.94	51.4	19	30	-7				
CHANGCHUN	146.03	333.5	19	39K	-2				
ULAN-BATOR	146.60	357.9	19	42	0				
POONA	149.73	78.0	19	49K	2				
NEW DELHI	150.53	56.9	19	47K	-1				
LEMBANG	158.72	186.8	20	1A	2				
SHILLONG	163.34	46.4	20	3A	-1				
CHENG TU	163.83	3.5	20	4	0				
MEDAN	167.45	148.8						20	35
KUNMING	169.15	11.7	20	8	0				

AUGUST 29 14.H 51.M 20.S EPICENTRE 52.39-170.83 DEPTH= 72.KM

A=-0.60504 B=-0.09769 C= 0.79018 D=-0.1594 E= 0.9872
G=-0.7801 H=-0.1259 K=-0.6129 HT= -6.3

DEPTH OF FOCUS= 0.006R

SE= 1.96

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
COLLEGE	17.18	34.4	3	55	-2	7	11	7			6	36
PETROPAVLOVK	18.44	284.1	4	14	2	7	30	-2			9	3
MAGADAN	22.37	303.8										
VICTORIA	30.00	78.2	6	5K	1							
PENTICTON	31.92	74.7	6	21	0							
CORVALLIS	31.95	84.9	6	22	1							
BANFF	33.53	69.6	6	34K	-1							
SHASTA	34.67	90.0	6	46	1							
MINERAL	35.37	89.9	6	27A	-23							
HUNGRY HORSE	35.65	73.3	6	52	-1						13	4 SCP
BERKELEY	36.49	93.8	7	3	3							
RENO	36.95	89.6	7	4	0							
LICK	37.20	93.9	7	6A	0							
BUTTE	37.68	75.8	7	10	0							
VINEYARD	37.74	94.5	7	14	4							
FRESNO	38.70	93.1	7	19	1							
BOZEMAN	38.77	75.4	7	21	2							
MATUSIRO	38.80	266.6	7	19A	0	13	5	-6			9	0 PP
EUREKA	39.34	86.7	7	25	1						13	17 SCP
SALT LAKE C.	41.07	82.2	7	39	1							
PASADENA	41.42	94.8	7	41	0							
ABUYAMA	41.52	266.8	7	42A	0							
CHANGCHUN	42.21	284.7	7	47	0							
BOULDER CITY	42.25	90.0	7	49	1							
FLAMING GRGE	42.46	80.3	7	49	0						9	30 PCP
GLEN CANYON	43.60	86.4	8	0	1							
RAPID CITY	44.28	72.7	8	5	1							
KHEYS	44.49	349.8	8	9	3							
LARAMIE	44.52	77.3	8	7	1							
TUCSON	47.21	90.7	8	28	1							
TUCSON TELE.	47.22	90.6	8	28	1							
IRKUTSK	48.92	305.7	8	39	-2							
PEKING	49.92	286.3	8	48	0							
ULAN-BATOR	50.20	299.8	8	48	-2							
ZO-SE	52.90	274.4	9	10	-1							

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1961

PAGE 834

WICHITA MTS.	52.99	79.3	9 10	-1	16 41	7	11 34
NANKING	53.70	277.0	9 17	0			
FAYETTEVILLE	54.68	75.0	9 23K	-1			
TROMSOE	58.09	356.0	9 47	-1			
SIAN	58.09	285.9	9 48	0			
OTTAWA	58.51	55.4	9 50K	-1			
SHAWINIGAN	59.16	52.8	9 54	-2			
LANCHOW	59.78	290.8	9 59A	-1			
SODANKYLA	59.84	352.3	10 0	0			
MORGANTOWN	60.35	62.7	10 3K	-1			12 20 PP
PENNSYLVANIA	60.64	60.4	10 8	2	18 23	8	
PALISADES	62.57	57.8	10 17	-2	18 47	8	12 41 PP
FORDHAM	62.70	57.9	10 9	-11	18 47	6	
KAJAANI	62.97	351.0	10 18	-3			
SVERDLOVSK	63.25	331.2	10 23	0			
CHAPEL HILL	63.51	65.0	10 25	0			
HONG KONG	63.58	272.7	10 26	1	19 5	13	12 16 PP
SKALSTUGAN	64.35	358.5	10 31	1			10 57
RABAU	64.49	221.7	10 30	-1			
HALIFAX	64.95	48.8	10 33	-1			
NURMI JARVI	66.77	351.7	10 45	-1			
UPPSALA	67.91	355.4	10 52	-1			
KUNMING	68.40	283.3	10 56	0			
FRUNSE	69.64	314.5	11 4K	0			
MOSCOW	69.71	343.3	11 4	0			
GOTEBORG	70.25	358.4	11 7	0			
PORT MORESBY	71.27	224.2	11 7	-6	20 27	3	21 8 PS
LHASA	71.74	294.8	11 18	2			
COPENHAGEN	72.26	358.1	11 19	0			
ANDIJAN	72.31	314.6	11 20	0			
NAMANGAN	72.43	315.2	11 21	1			
SHILLONG	74.41	291.5	11 31K	-1			
STALINABAD	75.67	315.7	11 41	2			
DE BILT	75.83	2.5	11 37	-3			
CHATRA	76.06	295.8	11 44K	3	21 15	-3	
COLLMBERG	76.64	357.5	11 45	0			12 22
BENSBERG	77.01	1.3	11 46	-1			
LWOW	77.39	350.2	11 48	-1			
PRUHONICE	77.91	356.5	11 53	1			12 22
NIEDZIKA	78.13	352.6	11 53	0			
KASPERSKE H.	78.79	357.0	11 56	0			13 29
LAHORE	78.95	307.9	11 56	-1			
STUTTGART	79.22	359.9	11 59	0			
MAKHACH-KALA	79.41	332.4			21 46	-8	
NEW DELHI	79.96	304.1	12 2K	-1			
GARCHY	80.57	4.2	12 7	1			12 13 PCP
SIMFEROPOL	80.69	342.3	12 7	0			
CHARTERS TS.	81.25	220.4	12 8	-2			
TIFLIS	81.32	333.8	12 12	2			
GORIS	82.95	331.9	12 21	3			
QUETTA	83.55	312.5	12 22	1	22 43	7	
SAN JUAN	84.27	67.4	12 26	1			13 8
TEHERAN	84.82	326.7	12 30	2	22 53	4	
ISTANBUL KA.	85.33	345.0	12 31	1	23 4	10	
BRISBANE	85.58	211.9	12 34	2	22 56	0	
MEDAN	87.49	272.6	12 45A	4			
CARACAS	90.10	72.7	12 54K	1	23 34	-4	
KARAPIRO	90.73	190.7	12 56	0			13 17
KSARA	91.03	338.0	12 54	-4			
LWIRO	127.42	335.0	19 0K	3			
SCOTT BASE	130.71	186.1	19 4	1			21 7 PP
BROKEHILL	139.14	330.7	19 19	0			
BULAWAYO	144.44	327.5	19 28	0			
MAWSON	150.33	218.6	19 42	4			19 57
KIMBERLEY	153.69	327.8					20 13 PKP2 19 52 PKP2

AUGUST 30 3.H 35.M 6.S EPICENTRE 6.58 -34.47 DEPTH= 0.KM

A= 0.81902 B=-0.56235 C= 0.11389 D=-0.5660 E=-0.8244
G= 0.0939 H=-0.0645 K=-0.9935 HT= 6.9

SE= 4.20

	DELTA DFG.	AZ. DEG.	P M	O-C S	S S	*PP M S	SUPP. M S
MBOUR	18.86	64.4	4	19	-5	7 33	-19

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1961

PAGE 835

CARACAS	32.32	279.2	7 36	63	12 34	47	
LA PAZ	40.43	235.1	7 49	7	14 17	26	
CHINCHINA	40.96	270.0	7 48	2			
GRANADA	41.45	38.3			14 23	17	9 44
TOLEDO	42.95	34.9	7 58	-5			
HALIFAX	45.61	330.9	8 22	-2			
BAGNERES	47.42	34.4	8 33	-5			9 9
PALISADES	49.07	320.5	8 47	-4	15 53	-3	10 55 PP
CLERMONT-FD.	50.78	33.5	9 14	10			
PENNSYLVANIA	51.52	318.2	9 11	1	16 30	0	
SHAWINIGAN	51.64	326.9	9 6	-5			
GARCHY	51.70	31.9	9 17	6			
MONACO	52.09	37.9	9 12	-2			
ISOLA	52.10	37.2	9 13	-1			9 38
PARIS	52.39	30.1	9 14	-3			
OTTAWA	52.62	324.2	9 14	-4			
KEW	52.91	26.1			16 45	-4	
ROME	54.41	42.1			17 11	2	
STUTT GART	55.93	33.5	9 39	-4	17 23	-7	21 20 SS
BENSBERG	56.10	30.4	9 47	3			
LJUBLJANA	57.61	38.5	9 50	-5			10 16
KASPERSKE H.	58.53	34.9	10 4	3			
COLLMBERG	59.32	32.5	10 14	8			10 59
GOTEBORG	62.38	26.1	10 28	1			
LWIRO	63.77	95.8	10 37	1			
WICHITA MTS.	65.05	305.2	10 41	-4	19 24	-3	23 42 SS
BROKEN HILL	65.82	109.0	10 39	-11			
SKALSTUGAN	66.02	20.9	10 55	4			
UPPSALA	66.02	25.8	10 46	-5			
NURMIJARVI	69.44	27.0	11 9	-3			
RAPID CITY	70.20	314.5	11 17	0			
KIRUNA	71.21	19.1	11 23	0	20 28	-12	
SODANKYLA	73.09	20.7	11 21	-13			
FLAMING GRGE	74.32	310.5	11 38	-4			
TUCSON	74.99	301.5	11 46	1			
GLEN CANYON	75.78	306.4	11 51	1			
BOZEMAN	75.94	315.3	11 49	-2			
EUREKA	79.29	308.8	12 9	0			13 8
CHINA LAKE	80.62	305.1	12 18	2			
PENTICTON	81.89	318.8	12 24	1			
COLLEGE	93.73	336.9	13 22	2			15 58
BYRD STATION	95.58	190.1	12 57	-32			
SOUTH POLE	96.54	180.0	13 42	9			
CANBERRA	151.22	185.9	20 4	14			
RIVERVIEW	152.39	190.1	19 23	-28			31 17

AUGUST 31 O.H 22.M 51.S EPICENTRE -28.69-176.70 DEPTH= 71.KM

A=-0.87715 B=-0.05061 C=-0.47755 D=-0.0576 E= 0.9983

G= 0.4768 H= 0.0275 K=-0.8786 HT= 2.2

DEPTH OF FOCUS= 0.006R

SE= 2.11

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
RAOUL ISLAND	1.21	242.1	0	23	1							
KARAPIRO	11.27	213.1	2	37	-3							
TUAI	11.31	205.3	2	36	-5	4	47	1			4	31
SUVA	11.40	335.9	2	46	4							
CHATEAU	12.30	209.5	2	54	0	5	8	-2				
WELLINGTON	14.37	206.8	3	24	3	5	51	-8				
COBB RIVER	15.09	212.2				6	9	-7				
AFIAMALU	15.40	18.3	3	17	-17	5	56	-27				
NOLMEA	16.48	288.9	3	49K	1	7	26	38				
KAIMATA	16.82	211.7	3	52	0							
GEBBIES PASS	17.25	206.9	3	54	-3	6	56	-9				
PORT VILA	17.55	305.2	4	OK	-1						4	37
BRISBANE	26.94	265.4	5	33	-4	10	23	16				
RIVERVIEW	27.89	251.3	5	49	4						11	15
HONIARA	29.12	306.5									6	51
CANBERRA	29.73	248.3	6	2A	0							
FORT NELSON	32.17	234.1	6	24K	1							
MELBOURNE	33.13	244.0	6	32	1							
CHARTERS TS.	34.69	275.9	6	44	-1						9	19
ADELAIDE	38.15	248.9	7	14K	0				7	25		

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1961

PAGE 836

CAPE HALLETT	44.25	185.7	8 8	4	14 53	21	18 9	SCS
SCOTT BASE	49.83	184.5	8 51	3			10 15	PCP
DARWIN	51.34	277.1	8 58	-1			13 10	
BYRD STATION	56.41	169.9	9 37	1				
SOUTH POLE	61.47	180.0	10 13	2				
MIRNY	64.16	206.4	10 30	1	19 17	18		
ARGENTINE I.	73.02	156.0	11 24	0				
MAWSON	74.30	200.1	11 33	2			11 45	PCP
MATUSIRO	77.50	324.3	11 47A	-3	21 40	7		
ABUYAMA	77.64	321.5	11 48A	-2				
NHATRANG	82.24	288.4	12 15	0				
LICK	83.53	41.1	12 21K	0				
FRESNO	84.22	42.5	12 23	-2				
FERNDALE	84.35	37.4					13 19	
CHINA LAKE	84.92	44.4	12 27	-1				
SHASTA	85.44	38.3	11 29	-62				
RENO	86.08	40.5	12 52	18				
BOULDER CITY	86.75	45.8	12 38	1				
TUCSON	87.09	50.7	12 40	1				
EUREKA	88.28	42.5	12 43	-2				
GLEN CANYON	89.41	46.6	12 50	0				
PENTICTON	92.79	33.4	13 4	-2				
FLAMING GRGE	93.14	44.4	13 35	28				
COLLEGE	95.93	12.0	13 17	-3				
WICHITA MTS.	96.99	54.3	13 24	-1	24 2	8	31 26	SS
SHILLONG	102.99	292.1	13 51	-1				
QUETTA	125.21	288.3	18 55	2				
BULAWAYO	125.65	209.6					17 46	
SODANKYLA	138.81	346.5	19 20	2				
KAJAANI	141.31	343.1	19 13	-10				
SKALSTUGAN	144.62	353.1	19 26K	-2				
NURMI JARVI	145.07	341.7	19 27A	-2				
UPPSALA	147.35	346.6	19 34A	1			31 16	PCPPKP
GOTEBORG	150.37	350.6	19 42A	4				
KSARA	151.75	288.7	19 47	7				
COPENHAGEN	152.24	348.9	19 47K	6				
COLLMBERG	156.27	344.8	19 56	10			20 25	PKP2
PRUHONICE	157.08	341.1					20 17	PKP2
BENSBERG	157.56	353.6	20 5	17				
KASPERSKE H.	158.12	341.7	20 22	34				
STUTTART	159.43	348.7	19 57	7			20 27	PKP2
FOLINIERE	159.74	7.2	20 29	39				
LJUBLJANA	160.55	336.0	20 32	41				
GARCHY	161.44	0.5	20 48	56				
ROSELEND	162.88	349.6	20 46	53				

AUGUST 31 1.H 48.M 39.S EPICENTRE -10.75 -70.78 DEPTH= 605.KM

A= 0.32352 B=-0.92791 C=-0.18523 D=-0.9443 E=-0.3292
G=-0.0610 H= 0.1749 K=-0.9827 HT= 6.4

DEPTH OF FOCUS= 0.090R

SE= 2.20

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
AREQUIPA	5.72	186.9	1	37	-2							
LA PAZ	6.27	156.1	1	44	0	2	56	-11				
ANTOFAGASTA	12.89	178.5	2	47	0	5	4	3				
BOGOTA	15.61	347.7	3	18	4						5	22
CHINCHINA	16.34	342.6	3	21	1	6	7	5			5	31
BALBOA HTS.	21.44	335.6	4	7K	-1	6	43	-43				
CARACAS	21.45	10.4	4	8K	0	7	26	-1				
GALERAZAMBA	21.85	348.1	4	11	0						6	40
TRINIDAD	23.21	24.0	4	25	2						7	3
GRENADA	24.36	21.9	4	33	-1							
ST. VINCENT	25.57	21.9	4	43K	-1							
BARBADOS	26.18	25.3	4	52K	2	8	42	1			7	37
DOMINICA	27.49	19.9	4	57	-4							
ST. KITTS	29.02	16.0	5	13K	-1							
ANTIGUA	29.08	17.8	5	14	-1							
SAN JUAN	29.30	9.1	5	15K	-2	9	23	-7			8	1
SANTIAGO MA.	29.80	323.5	5	21	0						9	35
SAN SALVADOR	30.38	322.6	5	24	-2						6	58
COMITAN	34.14	321.5	6	1	4	10	45	1				

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1961

PAGE 837

MERIDA	36.54	329.5	6 14	-3	11 12	-7		8 0 PP
OAXACA	37.70	316.7	6 29	2	11 36	0		
VERA CRUZ	38.86	319.8	6 37	1	11 49	-4		
PUEBLA	40.08	317.4	6 51	5	12 17	6		
TACUBAYA	41.01	316.8	6 54K	1	12 20	-4		8 36 PP
PORT STANLEY	42.17	168.0	7 2	0				
BERMUDA	43.28	7.5	7 13	2				
LEON	43.86	316.2			13 5	0		8 8
MANZANILLO	44.39	311.6	7 24	4	13 16	4		11 52 PP
GUADALAJARA	44.71	314.3	7 23	1	13 18	2		
COLUMBIA	45.55	348.0	7 27K	-1	13 11	-17		
CHAPEL HILL	47.06	350.8	7 38	-2				13 47
MAZATLAN	48.50	314.3			13 58	-11		
WASHINGTON	49.73	353.6	7 57A	-3				16 28 SCS
FORDHAM	51.41	357.0	8 10	-2				16 37
FAYETTEVILLE	51.55	335.7	8 10K	-3	14 33	-17		45 30 SKPPKP
PALISADES	51.57	357.0	8 11K	-2	14 47	-3	9 16	11 1 PPP
PENNSYLVANIA	51.70	353.1	8 12	-2	14 45	-7	9 55	9 15 PCP
CHIHUAHUA	51.92	319.8	8 21	5	14 57	3		
TERRE HAUTE	52.18	343.7	7 46	-31	14 21	-37		
WICHITA MTS.	52.34	331.0	8 17K	-2	14 57	-3	10 8	
CLEVELAND	52.90	349.9	8 22	-1	15 4	-3		
LUBBOCK	53.08	327.4	8 22	-2	14 58	-12		
ARGENTINE I.	54.62	176.6	8 34	-1	15 33	3		12 28 SCP
HALIFAX	55.49	6.2	8 40K	-1				
BREBEUF	56.04	357.6	8 43	-1				
OTTAWA	56.06	355.8	8 42K	-3				
SHAWINIGAN	57.06	358.4	8 50K	-1				
TUCSON TELE.	57.37	319.8	8 52K	-2				
TUCSON	57.38	319.7	8 53K	-1	16 4	-1	10 48	
MBOUR	58.90	66.0	9 6	2	16 31	7		
LARAMIE	60.92	330.5	9 16	-1				10 15
GLEN CANYON	61.00	323.2	9 18K	0	16 52	1		
RAPID CITY	62.00	334.0	9 23K	-1			11 15	
BOULDER CITY	62.32	320.4	9 26K	0				
FLAMING GRGE	62.55	327.8	9 26K	-2	17 8	-2	11 21	14 51
PASADENA	63.37	316.9	9 32K	-1	17 19	-1		10 1
ANGRA DO HO.	63.74	37.0	9 41K	6	17 35	11	11 36	12 5 PP
SALT LAKE C.	63.76	326.2	9 32K	-3	17 20	-4		
EUREKA	65.25	322.8	9 52K	7			11 55	10 15 PCP
FRESNO	65.98	318.4	9 47K	-2				
BOZEMAN	66.82	330.5	9 53K	-1	17 54	-6		
VINEYARD	67.01	317.6	9 55K	0				
PARAISO	67.43	316.7	9 53	-5				
LICK	67.51	318.0	9 59K	1	18 10	2	11 59	
STA. CRUZ C.	67.56	317.5	9 58K	-1				
RENO	67.62	320.8	9 59K	0				
BUTTE	67.81	329.9	9 59K	-1	18 13	1		
BRANNER	67.91	317.8	10 2K	1				
CONCORD	68.15	318.4	10 2	0				
BERKELEY	68.22	318.2	10 2K	-1	18 17	1	12 2	12 54 PP
SAN FRANCSCO	68.29	318.0	10 3K	0				
UKIAH	69.54	318.8	10 9K	-2				
SHASTA	69.90	320.6	10 8K	-5				
HUNGRY HORSE	70.16	330.9	10 14K	0	18 39	0		
FERNDAL	71.01	319.7	10 23	4				
ARCATA	71.06	320.0	10 19	0				
CORVALLIS	72.68	323.6	10 29K	0				
BYRD STATION	72.82	187.9	10 29	-1				12 37
BANFF	72.82	332.4	10 28K	-2				
PENTICTON	73.55	329.1	10 33K	-1				
SEATTLE	73.92	326.6	10 36	0	19 5	-15		
VICTORIA	75.04	326.8	10 42K	0				
LISBON	75.53	45.3	10 46K	1	19 22	-15		12 49 PP
COIMBRA	76.69	44.2			20 51	61	13 55	14 55 PP
SERRA PILAR	76.99	43.3	10 54A	1			12 57	14 4 PP
GRANADA	78.87	48.6	10 51	-12	19 20	-52	12 58	14 34 PP
SOUTH POLE	79.33	180.0	11 5	0				13 12
ALMERIA	79.59	49.3	11 6K	0	20 20	0	13 11	21 25 SP
TOLEDO	79.60	45.9	11 8	2	20 26	6	13 12	13 53
ALICANTE	81.60	48.4	11 15	-2	20 43	3		14 36 PP
LUANDA	82.55	97.6	11 25K	4			13 31	
TORTOSA	83.18	46.4	11 28	3	20 51	-4		
REYKJAVIK	83.28	19.4	11 26K	1	21 3	7	13 37	
BAGNERES	83.73	44.2	11 28	1	21 5	5	13 33	14 35 *SP
VIK	83.79	20.8	11 29	1	21 5	4		
WINDHOEK	84.01	111.8	11 29	0				
HERMANUS	84.02	123.8			20 51	-12		

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1961		PAGE 839							
LWOW	101.21	41.1	12 49	1	22 28	-1	14 59	17 5	PP
KARAPIRO	101.46	227.6	12 50	1					
NURMI JARVI	101.95	30.2	12 50	-1	22 29	-3	15 0	17 10	PP
BUCHAREST	102.33	46.7	12 52	-1				15 1	
SODANKYLA	102.70	23.2	12 55	1	22 36	0		17 18	PP
WILKES	103.12	179.3	12 55A	0	22 31	-7	15 5	23 53	S
KAJAANI	103.31	26.5	12 55	-2					
ISTANBUL UN.	104.32	50.3			22 34	-9			
ISTANBUL KA.	104.38	50.3	13 2	0			15 11	17 36	PP
PULKOVO	104.80	30.9	13 3	0	22 45	0		17 31	PP
APATITY	105.29	22.7	13 6	777					
HELWAN	105.71	61.9	12 58	777				32 9	
SUVA	105.92	247.6						23 41	SKKS
SIMFEROPOL	108.05	46.2	13 18	777	23 0	1		17 54	PP
JERUSALEM	109.13	60.1						17 24	
MOSCOW	109.17	34.6	17 12	777	23 4	0		18 2	PP
KSARA	109.70	57.9	17 23	777				18 5	PP
TANANARIVE	112.44	115.6	17 31	3				28 32	PP
NOUMEA	115.01	239.2	17 35	2					
FORT NELSON	116.23	210.4	17 36K	1	23 33	2			
MOORLANDS	116.68	210.6	17 37	1				20 18	SKP
GORIS	117.63	51.0					19 49	18 55	PP
TIKSI	117.98	353.1	17 39	0				19 2	PP
RIVERVIEW	120.39	220.2	17 44K	1	23 49	4		19 22	PP
CANBERRA	120.73	217.5	17 45	1	23 46	0	20 5	19 20	PP
SVERDLOVSK	120.80	28.7	17 45	1	23 50	3		19 18	PP
MELBOURNE	121.22	212.8	17 46	1				21 24	
TEHERAN	122.23	54.5	17 49	2				19 33	PP
MAGADAN	122.26	336.4	17 48	1				19 18	PP
BRISBANE	123.26	227.1	17 50	1	24 10	15			
HONIARA	125.70	250.2	17 54	0					
YAKUTSK	126.69	348.1	17 56	1					
ASHKABAD	127.13	50.3	17 59	3				20 0	PP
TASHKENT	133.58	41.9	18 10	1				26 39	SKKS
SEMIPALATNSK	133.83	25.4	18 11	2				20 45	PP
RABAU	134.74	253.1	17 49	-22			20 23		
NEMURO	134.76	322.5						20 21	
KUSIRO	135.67	322.8	18 13	1					
FRUNSE	136.10	37.0	18 4	-9			20 33	20 53	PP
QUETTA	136.25	57.4	18 17	4			20 53	21 50	PKS
OB IHIRO	136.41	323.5	18 23	9				21 38	
RUMOE	136.67	325.7	18 16	2				29 20	
MUNDARING	137.00	188.7	18 1A	-14				26 36	
URAKAWA	137.12	322.8	18 11	-4					
SAPPORO	137.38	324.9	18 5	-11				21 7	
KARACHI	137.65	64.9	18 18	2			20 55		
SUTTSU	138.19	325.3	18 18	1				21 54	
IRKUTSK	138.40	4.5	18 9	-8			20 34	21 15	PP
MORI	138.44	324.3	18 18	0					
HAKODATE	138.52	323.8	18 17	-1					
WARSAK DAM	138.53	50.1	18 11	-7					
HATINOHE	138.85	321.7	18 16	-2					
MIYAKO	139.10	320.4	18 12	-7				21 58	
AOMORI	139.12	322.6	18 21	2				21 53	
MORIOKA	139.57	321.0	18 12	-8				21 27	
MI ZUSAWA	139.93	320.3	18 18	-2					
AKITA	140.21	321.8	18 22	1					
ISINOMAKI	140.22	319.3	18 14	-7					
SENDAI	140.58	319.4	18 17	-5				21 31	
SAKATA	140.88	321.0	18 18	-5					
YAMAGATA	140.94	319.8	18 18A	-5					
HUKUSIMA	141.16	319.0	18 17A	-7					
ONAHAMA	141.33	317.7	18 19A	-5					
LAHORE	141.68	52.0	18 21	-4					
SHIRAKAWA	141.69	318.4	18 21	-4					
MI TO	141.94	317.2	18 21	-4					
NIIGATA	141.96	320.3	18 23	-2					
VLADIVOSTOK	142.19	332.6	18 21	-4					
KAKIOKA	142.22	317.2	18 23	-2					
UTUNOMIYA	142.24	317.9	18 38	13					
TUKUBASAN	142.28	317.3	18 18K	-7	24 18	-18		21 47	PP
AIKAWA	142.40	321.1	18 23A	-3					
HONGO	142.79	316.8	18 27	1				27 59	
KUMAGAYA	142.80	317.7	18 24A	-2					
TOKYO C.M.O.	142.82	316.8	18 25	-1				20 11	
MAEBASI	142.85	318.3	18 22K	-4					
ULAN-BATOR	142.90	2.6	18 25	-1					
TAKADA	142.96	319.9	18 15	-11					
YOKOHAMA	143.02	316.6	18 25K	-1					

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1961					PAGE 840		
TITIBU	143.09	317.7	18 26	0			
HERA	143.18	315.7	18 25K	-2			
OI WAKE	143.23	318.6	18 29	2			
NAGANO	143.26	319.4	18 26	-1			
MATUSIRO	143.33	319.2	18 24K	-3	20 41	21 53	
HUNATU	143.57	317.3	18 27	0		21 50 PP	
						18 49	
OSIMA	143.58	315.8	18 26	-1			
AJIRO	143.61	316.5	18 26	-1			
KOHU	143.62	317.7	18 28	1			
WAZIMA	143.63	321.4	18 28	1			
MATUMOTO	143.66	319.0	18 28	1			
MI SIMA	143.67	316.7	18 26K	-1			
TOYAMA	143.87	320.2	18 28	0			
BOMBAY	143.95	72.7	18 28	0			22 10 PP
SHI ZUOKA	144.13	316.9	18 18	-10			
TAKAYAMA	144.18	319.5	18 29	1			
IIDA	144.18	318.1	18 29	1			
HATIDYOZIMA	144.18	313.2	18 29	1			
CHANGCHUN	144.21	339.9	18 27K	-1			21 48 PP
KANAZAWA	144.32	320.5	18 30	2			
OMAESAKI	144.46	316.5	18 30	1			
GIHU	144.95	318.9	18 32K	3			
NAGOYA	144.96	318.4	18 31K	2			
POONA	144.96	73.1	18 31K	2	20 46		
TORI SIMA	145.09	308.9	18 31	1			
DEHRA DUN	145.09	51.5	18 33	3			
NEW DELHI	145.18	54.8	18 35K	5	20 59	22 29	
GUAM	145.18	278.1	18 31K	1		26 2	
TSURUGA	145.24	319.8	18 32	2			
HI KONE	145.36	319.1	18 32	2			
KAMEYAMA	145.48	318.4	18 33	3			
TU	145.53	318.1	18 35	5			
KYOTO	145.85	319.3	18 33	2			
NARA	146.00	318.7	18 37	6			
ABUYAMA	146.05	319.2	18 33K	2			
TOYOOKA	146.10	320.8	18 33	2			
OWASE	146.12	317.5	18 33	2			19 30
OSAKA	146.21	318.9	18 33K	2			
KOBE	146.42	319.3	18 35	3			
TOTTORI	146.51	321.4	18 33	1			
SAIGO	146.56	323.2	18 36	4			
WAKAYAMA	146.70	318.7	18 38	6			
SIOMISAKI	146.78	317.0	18 37	5			
SUMOTO	146.80	319.1	18 34K	2			21 52
SEHORE	146.95	63.9	18 37	5			
YONAGO	147.07	322.1	18 34	1			
TOKUSIMA	147.18	319.0	18 40	7			
MATSUE	147.22	322.4	18 37	4			
TAKAMATU	147.36	319.9	18 38	5			
TSURUGI SAN	147.69	319.2	18 39	5			
MUROTO	147.96	318.2	18 36	2			
KOTI	148.19	319.3	18 35	1			
HI ROSIMA	148.34	321.6	18 35	0			
MATUYAMA	148.48	320.5	18 40	5			
KODAIKANAL	148.78	88.0					19 23
UWAZIMA	149.02	319.8	18 43	8			
SIMIDU	149.04	318.7	18 41	5			
HYDERABAD	149.45	73.9	18 42K	6			
SIMONOSEKI	149.53	322.7	18 42	6			
OOITA	149.60	320.9	18 38	2			21 0
HUKUOKA	150.12	322.8	18 39	2			
ASOSAN	150.17	321.0	18 40	3			
PEKING	150.19	349.2	18 39	2			
SAGA	150.40	322.4	18 42	5			
KUMAMOTO	150.45	321.3	18 38	0			
MIYAZAKI	150.60	319.1	18 48	10			
UNZENDAKE	150.79	321.7	18 41	3			
NAGASAKI	151.01	322.2	18 40K	2			
KAGOSIMA	151.38	319.6	18 41K	2			
MADRAS	151.50	82.6	18 40A	1	21 3	22 35	
TOMIE	151.75	323.4	18 42K	3			
YAKUSIMA	152.15	317.9	18 42	2			
CHATRA	153.77	49.4	18 47K	5	21 17	22 52	
VI SHAKHPTNM	153.96	71.6	18 51	8	21 12	22 48	
LHASA	154.68	39.4	18 47K	3		22 52 PP	
SIAN	156.60	0.6	18 47K	1		22 58 PP	
ZO-SE	156.91	333.1	18 48K	1		22 57 PP	
NANKING	157.02	338.8	18 49K	2		23 1 PP	

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1961

PAGE 841

SHILLONG	157.92	45.8	18 49K	1			
CHENG TU	159.60	13.0	18 52	2			19 35 PKP2
CHITTAGONG	159.74	53.1	18 55	5	21 33		22 32 PKS
TAIPEI	161.61	322.2	18 24	-28			
ILAN	161.67	321.2	18 50	-2			26 43
HWALIEN	162.33	319.7	18 54	1			
LEMBANG	162.47	174.7	18 56	3			
TAICHUNG	162.78	322.2					26 43
DJAKARTA	163.02	171.8	18 54	1			
HSINKONG	163.10	318.2	18 56	3			
ALISHAN	163.17	320.5	19 0	7			
TAWU	163.94	317.4	18 59	5			
HENGCHUN	164.28	316.8	19 1	6			
KUNMING	164.44	22.4	18 57K	2			23 42 PP
CANTON	167.11	342.8	19 0K	3			23 53 PP
MEDAN	167.35	123.5	18 58K	1			24 16
BAGUIO CITY	167.60	298.3	19 0	3			23 48

AUGUST 31 1.H 57.M 10.S EPICENTRE -10.29 -70.94 DEPTH= 614.KM

A= 0.32131 B=-0.93018 C=-0.17755 D=-0.9452 E=-0.3265
G=-0.0580 H= 0.1678 K=-0.9841 HT= 6.5

DEPTH OF FOCUS= 0.092R

SE= 3.42

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
AREQUIPA	6.15	184.9	1	39	-5							
LA PAZ	6.75	156.4	1	50	1	3	20	4				
ANTOFAGASTA	13.34	177.9	2	55	3	4	52	-18				
BALBOA HTS.	20.96	335.6	4	5K	2	6	29	-50				
TRINIDAD	22.87	24.8	4	20	0							
SANTIAGO	23.03	179.4	4	16	-6							
GRENADA	24.01	22.6	4	31	0	8	13	6				
ST. VINCENT	25.21	22.6	4	41	0							
BARBADOS	25.84	26.1	4	48	1	8	46	10				
DOMINICA	27.13	20.5	5	2	4							
ST. KITTS	28.63	16.5	5	9	-2							
ANTIGUA	28.71	18.4	5	10	-1							
SAN JUAN	28.89	9.5	5	10K	-3	9	18	-5			11	46 PCS
SANTIAGO MA.	29.34	323.3	5	10	-7							
SAN SALVADOR	29.92	322.4	5	22	0						10	40
COMITAN	33.69	321.3	6	2	9	10	38	2				
MERIDA	36.07	329.4	6	12	-1	11	5	-7				
OAXACA	37.26	316.5	6	26	3	11	26	-3			15	26 SCS
VERA CRUZ	38.41	319.7				11	46	0			6	50
PUEBLA	39.64	317.2	6	48	6	12	8	4			15	46 SS
TACUBAYA	40.57	316.6	6	51K	1	12	5	-12			15	46 SCS
PORT STANLEY	42.64	168.0	7	1	-5							
LEON	43.43	316.1	7	16	4	12	55	-3				
MANZANILLO	43.97	311.4				13	12	7			16	13 SCS
GUADALAJARA	44.28	314.1	7	22	3	13	8	-2			16	14 SCS
COLUMBIA	45.08	348.1	7	22K	-3							
CHAPEL HILL	46.60	350.9	7	34	-2							
HAZATLAN	48.07	314.2				13	47	-15			16	19 SCS
PALISADES	51.12	357.1	8	6K	-4	14	36	-7	9	5	17	56 SS
PENNSYLVANIA	51.24	353.3	8	7	-4	14	41	-4	10	2	9	13 PCP
CHIHUAHUA	51.48	319.7	8	18	6	14	52	4			17	4 SCS
WICHITA MTS.	51.87	330.9	8	13	-2	14	50	-3				
LUBBOCK	52.62	327.3	8	18	-2	14	50	-13				
HALIFAX	55.06	6.4	8	35K	-2							
ARGENTINE I.	55.07	176.6	8	34	-4	15	38	3			17	26 SCS
BREBEUF	55.59	357.7	8	39	-2							
OTTAWA	55.60	355.9	8	39K	-2							
SHAWINIGAN	56.61	358.5	8	46K	-2							
TUCSON	56.94	319.6	8	54K	4	15	59	0	10	50	9	39
GLEN CANYON	60.55	323.2	9	16K	2	16	44	0			37	37 PKPPKP
RAPID CITY	61.53	334.1	8	26K	-55							
BOULDER CITY	61.87	320.4	9	33K	10							
FLAMING GRGE	62.09	327.8	9	21K	-3	17	2	-1			37	50 PKPPKP
PASADENA	62.93	316.9	9	31	1	17	16	3			10	5
SALT LAKE C.	63.29	326.2	9	31K	-1	17	9	-9				
ANGRA DO HO.	63.48	37.2	9	37K	4	17	32	12			12	0 PP
EUREKA	64.79	322.8	9	51	10						12	57 SCP
BOZEMAN	66.35	330.5	9	50K	-1							

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1961		PAGE 842												
VINEYARD LICK	66.57 67.07	317.6 318.0	9 53 9 55K	1 0			18 7 5							
STA. CRUZ C. RENO BUTTE BRANNER BERKELEY	67.12 67.17 67.34 67.47 67.77	317.5 320.8 329.9 317.8 318.1	9 55 9 37 9 53 9 58K 10 0	-1 -19 -4 0 0			18 6 0 18 13 2				12 1			
SAN FRANCISCO UKIAH SHASTA FERDALE ARCATA	67.84 69.10 69.45 70.57 70.62	318.0 318.8 320.6 319.6 320.0	9 50 10 7K 10 1 10 20 10 17	-10 -1 -9 4 1			18 44 2 18 45 2							
CORVALLIS BYRD STATION LOME LISBON COIMBRA	72.22 73.24 73.68 75.33 76.48	323.5 187.9 80.5 45.4 44.3					19 3 2					12 46		
			10 28 10 36 10 43K 10 50K	-4 2 0 1			19 20 3 19 17 -17 19 50 3					19 39 SKS 21 1 SPP		
SERRA PILAR GRANADA TOLEDO ALMERIA ALICANTE	76.78 78.70 79.41 79.42 81.43	43.4 48.7 46.1 49.4 48.5	10 55A 10 57 11 5K 11 3K 11 18	4 -4 0 -2 3			19 50 0 20 3 -7 20 22 5 20 20 3 20 34 -3			12 54		13 54 PP 25 47 SS 14 18 PP 14 36 PP		
LUANDA REYKJAVIK TORTOSA VIK BAGNERES	82.77 82.91 82.99 83.43 83.52	97.7 19.5 46.5 20.9 44.2	11 22A 11 23 11 23 11 29 11 26	0 0 0 4 0			20 50 0 20 59 8 20 49 -3 20 53 -3 21 2 5			13 16 13 36		14 48 PP 21 58 SP		
SIDA JERSEY WINDHOEK HERMANUS FOLINIERE	83.99 84.31 84.33 84.41 85.15	20.9 38.0 111.8 123.8 38.7	11 28K 11 30 11 29 11 37 11 32	0 0 -1 7 -2			21 10 8 20 53 -12 21 0 -6			13 41		11 56 21 16		
SITKA KEW EDINBURGH SCOTT BASE THULE	85.19 86.23 86.39 86.44 86.57	330.4 36.3 31.5 190.3 0.6					21 0 -13 21 7 -16 21 0 -25					12 50 22 26 SP 11 28 PCP 17 10 PPP		
			11 38K 11 21 11 37 12 22A	-1 -19 -3 41						13 50 13 38 13 46				
DURHAM GARCHY PARIS ABERDEEN ISOLA	86.77 86.88 87.00 87.44 88.63	32.9 41.0 39.4 30.6 44.7	11 40 11 46 11 41 11 45 11 52	-1 4 -2 0 2			21 29 1 21 10 -19 21 8 -22 21 38 4 21 23 -21			13 48 13 55		14 54 PP 21 35 SKS 37 33 PKPPKP 21 15 SKS		
CAPE HALLETT BESANCON MONACO NEUCHATEL ROSELEND	88.63 88.76 88.77 89.32 89.37	195.5 41.6 45.3 42.0 43.6	11 48A 11 50 11 47 11 52 11 49	-2 -1 -4 -1 -5			21 25 -20			14 4 14 6 14 6		15 30 PP		
DE BILT BASLE KIMBERLEY CHIAVARI STRASBOURG	89.67 89.88 90.07 90.24 90.28	36.8 41.6 119.1 45.0 40.6	11 58 11 57 12 53 11 42K 11 58	3 1 56 -16 0			22 0 6 21 33 -23 21 58 -1 22 10 11			14 10 13 58 14 15		21 31 SKS 23 16 15 18 PP 21 34 SKS		
BANGUI PAVIA BENSBERG GRAHAMSTOWN WITTEVEEN	90.34 90.34 90.54 90.61 90.74	85.6 44.2 38.2 123.9 36.4	12 3 11 58 11 58 11 56 11 59	5 0 -1 -3 -1			22 5 4			14 9 14 15		21 32 22 27 21 33 SKS		
KARLSRUHE EBINGEN CHUR KIPAPA HONOLULU	90.80 90.95 90.99 91.01 91.07	40.3 41.2 42.6 291.5 291.3	12 3 12 0 12 0 12 1A 12 3A	3 -1 -1 0 2			22 11 7 21 39 -26 21 37 -28			14 17 14 12		12 5 PCP 12 4 PCP		
MUNSTER HEIDELBERG TUBINGEN RAVENSBURG STUTTGART	91.08 91.09 91.10 91.28 91.29	37.3 40.0 40.9 41.7 40.7	12 0 11 59 12 0 12 0 11 59	-1 -3 -2 -2 -3			21 37 -29 20 55 -73			14 20		12 5 PCP 12 5 PCP 12 5 PCP 12 6 PCP		
PRATO FLORENCE X. BOLOGNA ROME BERGEN	91.38 91.47 91.68 91.95 92.17	45.8 45.9 45.2 47.9 28.9	12 1 12 13 12 14 12 8K 12 8	-2 10 10 3 2			22 9 0 21 46 -25 21 44 -30 22 26 10			14 25 14 30 14 21		26 50 *SS 15 45 PP 21 44 SKS		
PADOVA JENA MESSINA CHEB HALLE	92.25 93.24 93.55 93.56 93.58	44.4 38.9 52.0 39.9 38.4	12 10 12 10 12 13 12 16 12 13	3 -1 0 3 0			21 44 -32 22 27 2 22 21 -6 22 33 6 22 31 3			14 22		16 34 PP 16 6 PP 22 0 SKS 15 24 *SP		
TRIESTE	93.60	44.4	12 15K	2			22 32 4			14 30		16 9 PP		

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1961

PAGE 843

PRETORIA	93.67	116.8						14	16
KASPERSKE H.	94.14	41.0	12 15	0					
COLLMBERG	94.19	38.8	12 14	-2	22 26	-7	14 29	16 14	PP
LJUBLJANA	94.20	44.1	12 17	1	22 39	6	14 33	16 14	PP
COPENHAGEN	94.71	34.4	12 17A	-1	22 45	8	14 34	16 12	PP
PRAGUE	94.85	40.1	12 22	3	22 0	-38		24 4	SP
GOTEBORG	94.86	32.3	12 17	-2	21 59	-39	14 36	29 12	PKKP
PRUHONICE	94.91	40.2	12 18K	-1	22 0	-39		24 5	SP
TARANTO	95.23	50.0	12 29	9	22 19	21		28 19	SS
BULAWAYO	95.32	111.5	12 31	10					
MAWSON	95.58	163.9	12 18K	-4	21 59	0		22 24	S
VIENNA-H.	95.81	42.2	12 24K	1	22 0	-1	14 37	16 26	PP
SKALSTUGAN	96.13	26.5	12 23	-1				29 9	PKKP
BROKEN HILL	96.43	105.9	12 26	0					
HURBANOVO	96.97	42.7	12 35	7					
TI TOGRAD	97.00	48.2	12 33	5	23 6	59		16 15	PP
RACIBORZ	97.26	40.5	12 26	-3			14 38	16 12	
BUDAPEST	97.47	43.2	12 34	4	22 11	2		15 57	PPP
CHORZOW	97.79	40.3	12 30	-2			14 44	22 12	
AFIAMALU	97.89	254.3	12 36	4	22 18	7	14 36	16 33	PP
UPPSALA	98.10	30.6	12 34	1	23 7	55	14 51	29 1	PKKP
BELGRADE	98.15	46.0	12 35K	2	22 15	2		16 17	PP
KRAKOW	98.36	40.7	12 37	3			14 44	22 15	
WARSAW	99.25	38.5	12 38	0			14 49	22 20	
TROMSOE	99.53	20.8	12 41	1	22 20	1		23 28	S
ATHENS	99.91	53.1	12 43K	2			15 1	15 6	PPS
SOFIA	100.02	48.3						13 53	
TUAI	100.14	227.4	12 48	6	22 32	10		25 0	SP
WELLINGTON	100.86	224.4	12 48	2	22 27	1	14 59	25 9	SP
LWOW	100.98	41.1	12 48	2	22 22	-4		23 7	SKKS
CHATEAU	101.15	226.6	12 51	4	22 38	11	15 4	17 13	PP
GEBBIES PASS	101.26	221.5	12 51	4	22 27	-1		17 14	PP
KARAPIRO	101.64	227.8	12 51	2	22 56	27	15 5	17 10	PP
NURMIJARVI	101.64	30.2	12 48	-1	22 28	-1	15 6	17 9	PP
BUCHAREST	102.14	46.7	12 51	0	22 30	-2		25 22	
COBB RIVER	102.34	223.9			22 40	7		26 38	PS
SODANKYLA	102.35	23.1	12 53	1	22 34	1		17 6	PP
ROXBURGH	102.55	218.7	12 58	5	22 35	1	15 12	16 54	PP
KAIMATA	102.59	222.2			22 25	1		23 49	S
KAJAANI	102.98	26.5	12 55	0					
WILKES	103.57	180.6	13 0A	2	23 35	-3	15 14	23 58	S
ISTANBUL UN.	104.16	50.2	12 14	-46					
ISTANBUL KA.	104.22	50.2	12 59	-1	22 34	-7	15 15	17 12	PP
APATITY	104.94	22.6	13 5	1					
SUVA	105.94	247.7	17 37	777	22 40	-9		26 30	*SP
KHEYS	106.07	7.6						17 27	PP
SIMFEROPOL	107.86	46.1			22 59	2		17 54	PP
MOSCOW	108.89	34.5	17 10	777	23 5	4		18 0	PP
KSARA	109.60	57.8	17 22	777				18 4	PP
TANANARIVE	112.78	115.5	17 32	4				18 34	PP
NOLMEA	115.10	239.5	17 37	4	23 32	7			
PORT VILA	115.19	244.9	17 36	3				18 47	
FORT NELSON	116.54	210.6	17 35	0	23 33	2			
MOORLANDS	116.98	210.9	17 35K	-1				20 20	SKP
RIVERVIEW	120.63	220.4	17 45	2	23 45	0		19 23	PP
CANBERRA	120.98	217.8	17 43	-1	23 49	3	20 10	19 26	PP
MELBOURNE	121.51	213.0	17 46	1					
TEHERAN	122.10	54.2	17 49	3				19 33	PP
BRISBANE	123.44	227.4	17 47	-2				28 43	
CHARTERS TS.	132.54	230.5	17 53	-13				29 28	
RABAUL	134.71	253.6	18 3	-7			20 26		
FRUNSE	135.84	36.7	18 19	7			20 35	21 3	PP
QUETTA	136.14	56.9	18 15	2			20 55	21 56	PKS
PERTH	137.50	188.5						21 6	
KARACHI	137.60	64.4	18 18	-2			20 57	22 1	PKS
IRKUTSK	137.97	4.3	18 9	-7			20 31		
WARSAK DAM	138.37	49.6	18 14	-3					
MI ZUSAWA	139.49	320.6	18 13	-6					
LAHORE	141.53	51.4	18 21	-3					
VLADIVOSTOK	141.72	332.7	18 19	-5					
TUKUBASAN	141.84	317.6	18 16	-8	24 26	-8		21 29	PP
ULAN-BATOR	142.46	2.4	18 25	0					
MATUSIRO	142.88	319.4	18 22K	-4				22 9	PKS
CHANGCHUN	143.73	340.0	18 24K	-3				21 48	PP
BOMBAY	143.97	72.1	18 29	2				21 53	PP
GUAM	144.96	278.7	18 27K	-2			20 42	27 30	SKKS
POONA	144.99	72.4	18 33K	4				22 7	PP
NEW DELHI	145.05	54.1	18 35	6				21 51	PP
ABUYAMA	145.60	319.5	18 29K	-1					

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1961

PAGE 844

PEKING	149.72	349.1	18 39K	3		
CHATRA	153.60	48.5	18 46	4	27	36
LHASA	154.44	38.6	18 48K	5	22	51 PP
SIAN	156.16	0.3	18 48K	3	22	59 PP
ZO-SE	156.43	333.2	18 48K	3	22	55 PP
NANKING	156.55	338.9	18 49K	4	23	0 PP
SHILLONG	157.72	44.7	18 50K	3		
CHENG TU	159.20	12.3	18 52	3	23	15 PP
CHITTAGONG	159.59	51.9	18 55	6	21 17	22 35 PKS
TAIPEI	161.16	322.8			19	12
HSINKONG	162.67	318.8	18 57	5		
ALISHAN	162.69	321.0	18 57	5		
LEMBANG	162.91	174.7	19 0	8		
DJAKARTA	163.48	172.2	18 53K	0	28	25
TAWU	163.50	318.0			19	56
KUNMING	164.08	21.3	18 57K	3	23	38 PP
CANTON	166.63	342.7	19 0A	4	23	54 PP
MEDAN	162.73	122.2	18 58	1	24	17

SEPTEMBER 1 0.H 9.M 41.S EPICENTRE -59.28 -26.69 DEPTH= 158.KM

A= 0.45867 B=-0.23063 C=-0.85816 D=-0.4492 E=-0.8934
 G=-0.7667 H= 0.3855 K=-0.5134 HT= -8.7

DEPTH OF FOCUS= 0.020R

SE= 2.14

	DELTA DEG.	AZ. DEG.	P M	S S	O-C S	S M	S S	O-C S	*PP M	S S	SUPP. M	S S
ARGENTINE I.	18.25	235.1	4	1	-3						8	33 PCP
PORT STANLEY	19.08	279.7	4	12	-1	7	42	6				
SOUTH POLE	30.89	180.0	6	3	-1							
LA PLATA	31.83	306.1	6	12	0	11	10	0				
BYRD STATION	32.80	198.8	6	20	-1						6	50
MAWSON	37.43	140.9	6	58	-2	12	35	-1			8	29 PP
SANTIAGO	38.77	292.1	7	9	-2	13	0	4				
HERMANUS	38.92	71.0	7	12	0	13	0	2			8	47 PP
SCOTT BASE	42.87	184.2	7	44	-1	14	2	5	8	13	9	18 PP
KIMBERLEY	46.26	72.0	8	10	-2							
ANTOFAGASTA	46.92	299.8	8	16	-1	14	57	3				
WINDHOEK	47.93	59.5	7	56K	-29							
CAPE HALLETT	48.17	186.9	8	27A	1	15	6	-6	8	56	10	22 PP
PIETERMZBURG	48.33	78.1	7	57	-31							
PRETORIA	50.42	73.1	8	40	-4							
WILKES	50.72	159.3	8	45K	-1	15	51	4	9	18	10	43 PP
LA PAZ	52.31	306.6	8	58K	0	16	13	4				
KERGUELEN I.	52.43	125.0	8	58	-1	16	17	6				
AREQUIPA	53.76	303.0	9	9	1							
LUANDA	58.65	48.0	9	44A	1	17	41	8	9	53	10	34 PCP
HUANCAYO	59.34	301.4	9	49	1							
TANANARIVE	65.89	86.5	10	33A	2	19	13	9			11	57 PP
MACQUARIE I.	66.48	183.6	10	35	0				11	8		
LOME	68.89	29.9	10	50	0	19	49	9				
BANGUI	72.85	47.9	11	13	-1	20	27	2				
MBOUR	73.82	9.8	11	19	0	20	43	7				
BOGOTA	73.87	310.2	11	16	-4	20	25	-12				
FUQUENE	74.51	310.9	11	18	-5						14	2 PP
ROXBURGH	74.77	191.6	11	25	0	20	48	1	11	55	14	41 PP
CHINCHINA	74.80	308.9	11	23A	-2	20	46	-1			14	10 PP
TRINIDAD	75.09	324.6	11	25	-2							
GEBBIES PASS	76.15	194.3	11	32	0				12	6		
GRENADA	76.51	324.7	11	33A	-2							
CARACAS	76.70	319.2	11	34A	-2						17	48
BARBADOS	76.92	327.1	11	33	-4							
ST. VINCENT	77.44	325.5	11	39	-1							
KAIMATA	77.46	193.6	11	42	2	21	20	4	12	14		
FORT NELSON	78.03	175.5	11	41A	-2	21	20	-2				
WELLINGTON	78.23	196.4	11	43	-1	21	24	0	12	12		
MOORLANDS	78.52	175.4	11	45K	-1				12	20		
COBB RIVER	78.71	194.9	11	45	-2	21	26	-3	12	21		
DOMINICA	79.50	326.0	11	50	-1							
GALERAZAMBA	79.96	311.6	11	53	0	21	47	5			22	54 *SS
BALBOA HTS.	80.01	306.9	11	52A	-2							
CHATEAU	80.16	197.4	11	55A	1	21	44	0	12	28		
TUAI	80.29	198.7	11	54	-1				12	29		

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1961

PAGE 845

ANTIGUA	81.37	326.2	12	1	0									
KARAPIRO	81.40	197.6	11	59	-2	21	54	-3	12	34	38	31	PKPPKP	
ST. KITTS	81.82	325.4	12	3	0									
MELBOURNE	83.00	173.4	12	8	-1	22	13	0						
SAN JUAN	83.82	322.7	12	11A	-2							15	27	PP
MUNDARING	84.02	149.0	12	10A	-4	22	17	-6						
ADELAIDE	85.32	168.0	12	21A	0	22	37	1	12	51		15	41	PP
CANBERRA	85.68	176.5	12	23A	1	22	43	3	12	55		15	45	PP
RIVERVIEW	87.22	178.2	12	29A	-1	22	58	4	13	0		15	59	PP
SANTIAGO MA.	87.86	300.9	12	33	0									
SAN SALVADOR	88.35	300.4	12	34	-1									
RAOUL ISLAND	88.63	204.9	12	33	-4									
COMITAN	91.93	299.1	13	1	9				13	21		23	23	SKKS
BRISBANE	93.66	179.5	12	58	-2	23	51	-1						
OAXACA	94.72	295.5	13	21	16				13	43		17	1	PP
MERIDA	94.97	303.3	13	10	4				13	28		16	58	PP
PUEBLA	97.13	295.3												
ALMERIA	97.87	19.4	13	21	2	23	45	5	14	28		17	25	PP
TACUBAYA	97.91	294.6	13	18A	-1	23	44	4				17	18	PP
GRANADA	98.00	18.4	13	39	19	24	52	71				17	28	PP
NOUMEA	98.00	192.3	13	19	-1	23	47	6						
LISBON	98.72	13.8	13	29K	6	24	48	63				17	25	PP
ALICANTE	99.68	20.6	13	19	-8	24	55	66				17	29	PP
KOUMAC	99.94	190.4	13	27A	-1	24	6	15						
SUVA	100.15	204.2				23	57	5				24	59	S
COIMBRA	100.27	14.1	13	30A	0	23	50	-2				17	39	PP
TOLEDO	100.57	17.5	13	33A	2	23	58	4	14	4		17	41	PP
HELWAN	100.90	48.6	13	34	1	24	34	39						
GUADALAJARA	100.96	291.9				24	9	13				17	49	PP
SERRA PILAR	101.17	13.8	13	35K	1	23	49	-8				17	43	PP
AFIAMALU	101.76	214.6	13	41	4	24	3	4				17	39	PP
TORTOSA	102.25	20.8	13	41	2	25	21	79						
COLUMBIA	103.24	316.1	17	49K	246	23	59	-7						
MESSINA	103.24	33.0	13	45	2	24	9	3	14	27		17	57	PP
JERUSALEM	104.12	50.8	13	57	10							17	50	PP
CHAPEL HILL	104.28	318.5	13	49	1							17	35	
BAGNERES	104.37	20.0	13	51	3									
LEMBANG	104.76	132.7	14	OK	10							18	23	
DJAKARTA	105.06	131.7	14	50	777									
ATHENS	105.50	39.2	14	3	777	24	51	35				17	59	PP
ROME	105.89	29.4	17	35	777	24	20	2				18	19	PP
KODAIKANAL	105.97	96.9										18	46	
KSARA	106.17	50.3	13	59	777	25	30	71	14	40		18	18	PP
DARWIN	106.30	157.1	13	57	777							18	4	
WASHINGTON	106.33	321.2	13	51K	777							18	19	PP
MONACO	106.44	25.1	13	59	777							18	25	
ISOLA	106.79	24.7	14	5	777							18	32	PP
FORDHAM	107.12	324.4	14	4	777									
PALISADES	107.28	324.4	17	15	777	24	23	-1				18	31	PP
FLORENCE X.	107.36	27.8	14	23	777	24	57	32						
PRATO	107.42	27.7	17	51	777	26	39	134						
CHIAVARI	107.42	26.3	13	40	777							18	49	PP
CLERMONT-FD.	107.52	21.4	14	8	777							18	28	
HALIFAX	107.91	333.2	14	10	777									
ROSELEND	108.16	24.7	14	15	777							18	33	PP
PAVIA	108.20	25.9	18	5	777							21	10	PPP
TITOGRAD	108.22	34.1	13	33	777							17	49	PP
PENNSYLVANIA	108.31	321.5	18	4	777	24	26	-3				18	38	PP
GARCHY	108.97	20.9	18	16	777							18	37	PP
CHIHUAHUA	109.02	293.9	14	13	777	26	9	97				27	1	*SS
PADOVA	109.05	27.7	17	59	777	24	36	4				18	46	PP
NEUCHATEL	109.46	23.7	18	13	777									
SOFIA	109.68	36.9	18	43	777							19	10	SP
MADRAS	109.70	97.8	18	52	777							19	17	
TRIESTE	109.73	28.9	18	12	777	24	40	5				18	43	PP
FOLINIERE	109.80	18.1	14	17	777									
CHUR	109.87	25.5	17	24	777							24	36	
JERSEY	109.95	16.9	14	13	777									
ISTANBUL UN.	110.02	41.7	18	52	39									
ISTANBUL KA.	110.07	41.7	14	15	-238	24	36	0	14	56		18	46	PP
BASLE	110.09	24.0	17	39	-34							26	25	SKKS
CLEVELAND	110.13	319.1										18	50	PP
FAYETTEVILLE	110.13	307.2	14	4	-249	24	39	3				17	31	PP
LJUBLJANA	110.29	29.3	18	16	3	24	47	10				18	45	PP
PARIS	110.34	20.1	14	16	-237	24	34	-3				18	44	PP
ZAGREB	110.45	30.4										18	40	PP
MEDAN	110.48	119.7	18	51K	37							25	40	
BELGRADE	110.75	33.9	18	16K	2							28	30	PS
WICHITA MTS.	110.80	303.1	14	15	-239	24	44	5				18	52	PP

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1961

PAGE 846

BOMBAY	110.89	88.1			25 8 29		18 56 PP
EBINGEN	111.01	24.7	17 38	-37			18 55 PP
POONA	111.11	89.2	18 15	0			28 18 PS
STRASBOURG	111.13	23.8	14 20	-235	24 36	-4	18 46 PP
LUBBOCK	111.26	300.0	14 19	-236			
BREBEUF	111.31	326.5	14 18	-237			
TUBINGEN	111.36	24.7	17 47	-28			
PORT MORESBY	111.37	173.5	18 17	2			19 32
STUTTGART	111.63	24.7	14 23	-233		14 42	18 52 PP
KARLSRUHE	111.67	24.0	14 22	-234			21 11 PPP
SHAWINIGAN	112.04	327.6	14 37	-220			18 29 PKP
BUCHAREST	112.09	38.0	14 25	-222	24 48	4	20 0 PP
HEIDELBERG	112.11	24.1	14 25	-232			18 17
KEW	112.45	17.5	14 25	-232	26 47	121	19 5 PP
CAMPULUNG	112.52	36.9					19 10
BUDAPEST	112.79	31.8			26 45	118	18 42 22 37 PPP
VIENNA-H.	112.81	29.7	14 36	-222	25 12	25	
BRATISLAVA	112.92	30.2	14 36	-222			28 45 PS
HURBANOVO	112.93	31.1	14 36	-222			
KASPERSKE H.	112.94	27.5	14 32	-226			19 8 PP
LAWRENCE	113.03	308.0	14 25	-234			
BENSBERG	113.28	22.6	17 58	-21	24 53	4	19 9 PP
CHEB	113.55	26.3	14 46	-214	24 55	5	19 6 PP
PRUHONICE	113.96	27.8	18 21	1	26 57	125	19 16 PP
DE BILT	113.98	20.9	18 19	-2	24 53	1	19 13 PP
JENA	114.17	25.4	18 21	0	24 49	-3	29 13 PP
TUCSON	114.28	292.4	18 22A	1			19 23 PP
MUNSTER	114.32	22.5	18 21	0			
SKALNATE PL.	114.68	31.8	18 24	2			
HALLE	114.78	25.5	18 6	-16	24 56	1	
COLLMBERG	114.83	26.2	18 22	0	27 9	134	18 53 19 41 PP
WITTEVEEN	114.95	21.6					18 24 PP
SIMFEROPOL	115.24	43.3	18 22	-1	24 55	-1	19 25 PP
CHORZOW	115.36	30.5	18 23	0			18 51 19 30 PP
KRAKOW	115.39	31.2	18 23	0	27 3	126	26 16 SKKS
DURHAM	115.47	15.8	18 26K	3	27 15	138	19 32 PP
LWOW	116.31	34.0	18 26	1	25 1	1	19 33 PP
TIFLIS	116.55	52.5	18 27	2			19 35 PP
RABAUL	116.71	178.7	18 25	-1			
QUETTA	117.23	76.4	18 28A	1	25 9	5	19 6 19 41 PP
WARSAW	117.66	30.9	18 29	1	25 14	9	19 43 PP
ABERDEEN	117.73	14.8			25 11	6	19 45 PP
GLEN CANYON	118.51	294.8	18 30	1			19 53 PP
COPENHAGEN	118.80	24.1	18 30A	0	25 10	1	19 42 PP
BOULDER CITY	119.24	291.7	18 31	0			19 50 PP
LARAMIE	119.33	302.0	18 30	-1			
ASHKABAD	119.37	64.7	18 32	1	25 14	3	19 56 PS
PASADENA	119.37	287.9	18 31	0	25 15	4	19 56 PP
RAPID CITY	120.57	305.5	18 32	-1			28 40 PKKP
GOTEBORG	120.58	22.9	18 32	-1			20 6 PP
FLAMING GRGE	120.70	299.1	18 32	-2			20 1 PP
SALT LAKE C.	121.69	297.2	18 36A	1			20 9 PP
CALCUTTA	121.87	99.5					20 7
BERGEN	121.92	18.1	18 37	1			30 21 PS
FRESNO	122.26	288.5	18 37	0			
EUREKA	122.58	293.3	18 35	-2			20 18 PP
WARSAK DAM	122.60	77.4	18 37	0			
SIDA	122.91	4.6	18 38	0			
DEHRA DUN	122.96	85.3	18 40	2			28 12
VINEYARD	123.02	287.3	18 39	1			
REYKJAVIK	123.14	2.5	18 39A	1			
CHITTAGONG	123.47	102.8			25 28	3	20 19 PP
STA. CRUZ C.	123.52	287.0	18 40	1			
LICK	123.61	287.5	18 41	2			
UPPSALA	123.74	25.1	18 38A	-1	28 8	163	19 14 20 20 PP
BRANNER	123.94	287.2	18 41K	1			
CONCORD	124.32	287.7	18 42	1			
BERKELEY	124.33	287.5	18 41	0	25 43	16	20 32 PP
RENO	124.45	290.5	18 41	0			20 30 PP
CHATRA	124.81	95.6	18 44A	3	25 32	3	20 36
BOZEMAN	125.20	301.4	18 42A	0			20 36 PP
MOSCOW	125.58	38.8	18 42	-1			19 22 20 30 PP
UKIAH	125.79	287.7	18 43A	0			20 39 PP
HAWAII V.OB.	125.86	245.6	18 44	1			30 46
NURMIJARVI	125.95	28.5	18 32	-12	25 33	1	20 40 PP
SKALSTUGAN	126.08	20.4	18 43A	-1			20 38 PP
BUTTE	126.14	300.6	18 44A	0			20 35 PP
SHILLONG	126.16	100.7	18 43A	-1			20 39

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1961	PAGE 847									
SHASTA	126.60	289.6	18 44	-1						
PULKOVO	126.78	32.0	18 44	-1	25 27	-8	19 20	20 45	PP	
TASHKENT	127.21	70.2	18 46	0	25 39	3		20 48	PP	
ARCATA	127.55	288.5	19 51K	64				21 59		
HUNGRY HORSE	128.56	301.5	18 48	-1				20 57	PP	
HONOLULU	128.80	243.8	18 51K	2						
KIPAPA	128.86	244.0	18 51	2						
KAJAANI	129.75	27.7	18 33	-18				21 4	PP	
CORVALLIS	129.98	292.1	18 51	0				21 59		
FRUNSE	130.95	72.8						21 14	PP	
BAGUIO CITY	130.96	136.6	19 3	10				21 43		
KUNMING	131.14	111.6	18 54A	0				21 13	PP	
BANFF	131.32	303.1	18 52	-2						
PENTICTON	131.76	298.8	18 37	-18						
SODANKYLA	132.27	24.8	18 37	-19	25 54	5		21 17	PP	
TROMSOE	132.70	19.9	18 46	-11						
VICTORIA	132.92	295.6	18 57	0						
GUAM	133.82	168.4	18 59	0				22 19		
HONG KONG	133.83	125.9	18 57	-2				21 32	PP	
APATITY	133.96	27.6	18 46	-13						
SVERDLOVSK	134.72	50.6	19 2	2			19 35	21 34	PP	
HENGCHUN	136.15	133.9						22 15		
CHENG TU	136.38	108.8	19 3A	0				21 46	PP	
TAINAN	136.87	132.6						21 43		
HWAL IEN	138.27	133.8						15 11		
TAIPEI	139.20	133.0						20 22		
LANCHOW	140.64	103.8	19 2	-9				28 45	SKKS	
RESOLUTE	140.95	336.9	19 3	-9				22 15		
SITKA	143.93	298.4	19 14K	-3						
NANKING	144.34	124.4	19 17A	-1				22 36	PP	
ZO-SE	144.49	128.2	19 17A	-1				22 37	PP	
YAKUSIMA	147.29	141.7	19 21	-2						
KAGOSIMA	148.34	141.0	19 29K	5				20 10		
MIYAZAKI	148.94	142.1	19 35	10				20 14		
NAGASAKI	149.19	139.1	19 25	-1				20 11		
KUMAMOTO	149.54	140.3	19 32	6						
PEKING	149.77	113.0	19 27A	1				22 51	PP	
SAGA	149.80	139.4	19 34	7						
HUKUOKA	150.13	139.2	19 28	1				20 15		
OOITA	150.22	141.4	19 30	3				20 12		
ULAN-BATOR	150.82	92.1	19 28	0				29 48	PS	
KOTI	151.10	144.2	19 34	6				29 35		
MATUYAMA	151.14	142.8	19 37	9				23 11		
HIROSIMA	151.52	141.8	19 30	1				23 48		
TOKUSIMA	151.90	145.5	19 39	9						
TAKAMATU	151.98	144.5	19 36	6						
IRKUTSK	152.13	82.8	19 30	0				29 56	SKKS	
SUMOTO	152.25	145.9	19 30	0				20 19		
OWASE	152.35	148.3	19 34	4				23 22		
COLLEGE	152.79	306.9	19 26A	-5						
ABUYAMA	152.93	146.6	19 32A	1						
KAMEYAMA	153.16	148.2	19 32A	1				23 29		
TOYOOKA	153.33	144.8	19 43	11				30 3		
OMAE SAKI	153.38	151.4	19 36	4						
HIKONE	153.50	147.5	19 42	10				24 1		
NAGOYA	153.60	148.8	19 33	1						
GIHU	153.76	148.3	19 39	7						
SHIZUOKA	153.77	151.4	19 37	5						
OSIMA	153.82	153.3	19 37	5						
MISIMA	154.05	152.3	19 33	0						
MERA	154.06	154.0	19 32	-1						
IIDA	154.15	150.0	19 34	1						
HUNATU	154.37	151.7	19 37	4				20 27		
KOHU	154.48	151.2	19 37	4						
YOKOHAMA	154.51	153.4	19 34	1						
TOKYO C.M.O.	154.77	153.4	19 47	13						
TITIBU	154.90	152.0	19 38	4						
OI WAKE	155.10	150.8	19 38	4						
KUMAGAYA	155.14	152.4	19 33	-1						
MATUSIRO	155.22	150.0	19 34A	0				23 38	PP	
MAEBASI	155.30	151.7	19 34A	0				23 59		
NAGANO	155.34	149.9	19 36	2				24 15		
TUKUBASAN	155.37	153.7	19 32	-2				27 41	PPP	
KAKIOKA	155.40	153.8						19 51		
MITO	155.61	154.3						20 3		
UTUNOMIYA	155.63	153.0	19 43	8						
WAZIMA	155.65	146.9	19 40	5						
ONAHAMA	156.25	154.7	19 37	2						

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1961

PAGE 848

SHIRAKAWA	156.26	153.3	19 36	0					
HUKUSIMA	156.92	153.3	19 44	8				24 20	
CHANGCHUN	156.97	119.7	19 35A	-1				23 47	PP
YAMAGATA	157.37	152.7	19 37	0				23 51	
ISINOMAKI	157.76	154.5	19 38	0					
MI ZUSAWA	158.39	153.6	19 41	3				28 9	
MORIOKA	158.94	153.2	19 38	-1					
AOMORI	159.91	151.4	19 48	8				24 45	
HAKODATE	160.84	150.3						20 21	
MORI	161.06	149.6	19 53	12					
SUTTSU	161.62	148.1	19 48	6					
URAKAWA	161.64	154.5	19 59	17					
SAPPORO	162.17	150.3	19 43	1				24 12	
OBIHIRO	162.47	154.7						20 43	
TIKSI	164.17	28.7	19 41	-3	26 35	4		24 27	PP
Y.-SAKHLINSK	166.20	148.2	19 46	0				31 8	SKKS
YAKUTSK	168.13	66.6	19 44	-3				24 46	PP
PETROPAVLOVK	173.05	207.7	19 48	-2				31 51	SKKS
KLYUCHI	174.98	237.0	21 28	97				25 19	PP
MAGADAN	178.69	77.0	19 49	-2				25 35	PP

SEPTEMBER 1 18.H 41.M 34.S EPICENTRE -17.97-178.47 DEPTH= 590.KM

A=-0.95146 B=-0.02541 C=-0.30672 D=-0.0267 E= 0.9996
G= 0.3066 H= 0.0082 K=-0.9518 HT= 5.1

DEPTH OF FOCUS= 0.088R

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
SUVA	2.95	266.1			2 26	5		
AFIAMALU	7.60	58.8	1 54	-1	3 26	-2		
RAOUL ISLAND	11.23	177.5			4 33	1		4 18
PORT VILA	12.58	269.1	2 45A	1	5 6	10		
KOUMAC	16.49	258.3	4 24K	62	7 15	70		
KARAPIRO	20.56	193.6	4 1	1				
CHATEAU	21.78	192.6	4 9	-2				
BRISBANE	28.08	245.3	5 5	-2				6 39
RABAU	31.83	292.0	5 37	-2				
CHARTERS TS.	33.37	260.6	5 52	0				8 31
CANBERRA	33.62	232.6	5 55	1				
PORT MORESBY	34.42	279.7	6 2A	2	10 50	1		
MELBOURNE	37.56	230.7	6 27	1				
MOORLANDS	38.00	222.7	6 31K	1				8 30 PCP
FORT NELSON	38.14	221.9	6 32K	1				8 31 PCP
ADELAIDE	41.54	237.3	6 58K	0				
GUAM	47.88	308.2	7 46	-1				
DARWIN	49.13	269.0	7 57	1	14 18	-1		
CAPE HALLETT	54.73	184.2	8 43	7				
MUNDARING	60.04	243.0	9 8A	-4				
SCOTT BASE	60.35	183.6	9 14K	0			11 13	
BYRD STATION	67.19	170.7	9 57	-1				
MATUSIRO	67.92	323.4	10 1A	-1				10 25 PCP
SOUTH POLE	72.14	180.0	10 28	1				
LEMBANG	72.65	268.3	10 31A	1				
MIRNY	73.09	204.7	10 31	-1				
VLADIVOSTOK	75.96	324.9						21 18
BERKELEY	76.62	42.5	10 53	1				
LICK	76.71	43.3	10 54K	2				
NANKING	77.99	309.5	10 59	0				
CHANGCHUN	80.13	322.4	11 10A	0				
EUREKA	81.61	43.9	11 19	1				
TUCSON	81.72	52.4	11 20	2				
TUCSON TELE.	81.85	52.3	11 21	2				
GLEN CANYON	83.36	47.9	11 28	1				
ARGENTINE I.	83.46	157.3	11 27	0				
MAWSON	83.78	199.8	11 28A	-1			13 36	
PEKING	83.79	315.4	11 29A	0				
PENTICTON	84.82	34.2	11 34A	0				
COLLEGE	85.85	12.6	11 37	-2			13 47	12 7
SIAN	86.34	307.6	11 42A	1				
FLAMING GRGE	86.71	45.1	11 33	-10				
KUNMING	87.81	297.1	11 50	2				
CHENG TU	88.76	302.7	11 53	1				
WICHITA MTS.	92.07	54.2	12 8	0				

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1961

PAGE 849

SHILLONG	97.27	294.4	12 30	-1			
BOMBAY	112.82	283.4			21 50		
SAN JUAN	116.09	77.9	18 0	24			
KAJAANI	130.61	345.2	18 1	-3			
SHIRAZ	132.26	293.9	17 58	-10			
NURMIJARVI	134.40	344.2	18 11	0	20 48	SKP	
HELSINKI	134.61	343.8	18 10	-2			
KRAKOW	144.76	339.4	18 31	0	18 54		
RACIBORZ	145.29	341.1	18 35	4	19 12		
SKALNATE PL.	145.38	338.2	18 34	2			
KSARA	145.50	304.0	18 37	5			
COLLMBERG	145.52	347.3	18 32A	0	20 54		
HALLE	145.54	348.5	18 34	2	25 15		
JENA	146.16	348.6	18 36	3			
PRUHONICE	146.40	344.8	18 36A	3			
KEW	146.55	2.1	18 36	3			
JERUSALEM	146.64	300.8	18 38A	5			
BENSBERG	146.78	353.5	18 37A	4			
HURBANOVO	147.21	339.1	19 29	55			
BRATISLAVA	147.31	340.6	18 39A	5			
KASPERSKE H.	147.43	345.2	18 34A	0			
HEIDELBERG	148.12	351.1	18 40	4			
STUTT GART	148.64	350.1	18 36	0			
TUBINGEN	148.91	350.3	18 42	5			
STRASBOURG	149.05	351.9	18 44	7			
PARIS	149.23	358.8	18 45	8			
FOLINIERE	149.24	2.6	18 42	5			
LJUBLJANA	150.00	341.8	18 44A	6			
BASLE	150.11	351.8	18 45A	7			
HELWAN	150.39	299.1	18 45	6			
BESANCON	150.58	353.8	18 46	7			
GARCHY	150.75	357.9	18 47	8	18 56	PKP2	
ROSELEND	152.10	350.8	18 50	9			
ATHENS	152.18	320.2	18 49A	8			
CLERMONT-FD.	152.25	357.6	18 50	8			
ISOLA	153.46	351.1	18 43	0		19 8	
TARANTO	153.80	332.1	19 21	37	21 10		
BAGNERES	154.96	2.4				20 24	PKP2
LISBON	157.33	22.1	18 50	2		44 32	SS
BANGUI	158.50	233.1	18 51	1		19 30	

SEPTEMBER 1 18.H 50.M 32.S EPICENTRE 13.87 -92.40 DEPTH= 0.KM

A=-0.04070 B=-0.97036 C= 0.23820 D=-0.9991 E= 0.0419
G=-0.0100 H=-0.2380 K=-0.9712 HT= 6.0

SE= 2.50

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
COMITAN	2.38	6.3	0	36	-5	1	8	-3				
SAN SALVADOR	3.12	93.1	0	52	1	1	31	1				
SANT JAGO MA.	3.84	95.2	1	3	1	1	36	-12				
OAXACA	5.25	307.2	1	28	6	2	49	25			1 55	
MERIDA	7.52	20.3	1	52	-2	3	19	-2			2 16	
PUEBLA	7.57	313.5	2	0	6	3	26	4				
TACUBAYA	8.52	311.1	2	9	2	4	1	15			2 33	
LEON	11.41	310.5	2	48	1						5 49	
GUADALAJARA	12.43	304.5	3	1	0						6 12	
MANZANILLO	12.55	295.8	3	8	5						5 28	
BALBOA HTS.	13.50	109.8	3	13	-2						7 56	PCP
CHINCHINA	18.75	116.5	4	24A	2	7	53	4			8 6	*SS
CHIHUAHUA	19.42	321.5	4	34	4	8	16	12			5 34	
FUQUENE	20.20	112.6	4	39A	0	8	17	-4				
BOGOTA	20.28	115.2	4	40A	0							
LUBBOCK	21.42	338.0	4	53	1							
WICHITA MTS.	21.50	346.0	4	53	1						8 46	
FAYETTEVILLE	22.18	356.2	5	0	1	8	56	-3				
COLUMBIA	22.54	25.3	5	3	0	9	12	6				
ST. LOUIS 1	24.75	4.1	5	24K	0	9	38	-6	5 35			
TUCSON TELE.	24.87	320.7	5	27	2							
TUCSON	24.87	320.4	5	27	2	10	8	21				
CHAPEL HILL	25.02	26.3	5	27	0							
CARACAS	25.12	94.8	5	28A	0	9	55	4				
LAWRENCE	25.13	354.8	5	28	0	10	2	11				

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1961

PAGE 850

SAN JUAN	25.63	76.4	5 33	0				
BLOOMINGTON	25.75	10.6	5 33	-1	10	5	4	
WASHINGTON	28.38	25.7	5 50	-8				
GLEN CANYON	28.69	326.7	6 2	1				24 45
CLEVELAND	29.09	16.9	6 4A	0	10	54	-2	
LARAMIE	29.65	339.7	6 10	1				9 8
PENNSYLVANIA	29.68	22.6	6 10	0	11	4	-1	7 11 PP
BOULDER CITY	29.83	321.5	6 14	3				
TRINIDAD	30.45	92.5	6 13	-3				9 14 PCP
FLAMING GRGE	30.77	334.4	6 19	0	11	30	8	24 20
HUANCAYO	30.82	145.9	6 18	-2	11	18	-5	
PASADENA	30.86	315.3	6 21K	1	11	35	11	9 16 PCP
FORDHAM	31.37	27.6	6 23	-1	12	33	61	
PALISADES	31.49	27.4	6 24	-1	11	26	-8	7 18 PP
RAPID CITY	31.49	345.0	6 28	2				
SALT LAKE C.	31.73	331.3	6 28	0				9 18 PCP
EUREKA	32.88	325.2	6 36	-2	12	4	9	6 47
FRESNO	33.45	317.9	6 42	-1				8 5 PP
OTTAWA	34.46	20.9	6 50A	-1				
VINEYARD	34.48	316.6	6 52K	0				
LICK	34.98	317.2	6 57K	1				
STA. CRUZ C.	35.03	316.5	6 57K	1				9 28
RENO	35.14	321.8	6 58	1				8 39
BREBEUF	35.31	23.1	6 58	-1				
BRANNER	35.39	316.9	7 0K	1				
BOZEMAN	35.40	337.2	7 2	3	12	41	7	
CONCORD	35.62	317.8	7 2K	1				
BERKELEY	35.69	317.5	7 2K	0	12	53	14	8 29 PP
SAN FRANCISCO	35.76	317.2	7 3	1				
BUTTE	36.28	336.0	7 8	1	13	16	28	
SHAWINIGAN	36.51	22.9	7 8A	-1				
UKIAH	37.02	318.6	7 17	4				
SHASTA	37.41	321.3	7 15	-1				9 34
FERDALE	38.50	319.8	6 34	-51				
LA PAZ	38.54	140.7	7 23	-3	13	33	11	
ARCATA	38.56	320.3	7 26	0				
HUNGRY HORSE	38.77	336.9	7 30	2				
HALIFAX	39.24	33.0	7 32A	0				
CORVALLIS	40.34	325.5	7 42	1				
BANFF	41.64	338.1	7 52K	1				
PENTICTON	41.82	333.3	7 54K	1				
HAWAII V. OB.	60.21	284.6	10 10	-2				
RESOLUTE	60.82	359.2	10 16K	0	18	34	1	20 7 SCS
KIPAPA	62.61	287.1	10 26	-2				
HONOLULU	62.69	287.0	10 26	-3	19	4	7	
COLLEGE	63.21	336.8	10 31	-1	19	16	13	10 43
MBOUR	72.81	79.0	11 33A	1	21	4	6	18 6
SERRA PILAR	76.39	50.6	11 51K	-2				14 47 PP
COIMBRA	76.63	51.5	11 53K	-1				
ABERDEEN	78.64	33.8			21	58	-4	22 58 PS
DURHAM	79.28	36.1	12 11K	2	22	6	-3	
JERSEY	79.84	41.8	12 14	2				
TOLEDO	80.00	51.4	12 12K	-1	22	32	16	15 21 PP
KEW	80.57	39.3	12 15	-1	22	35	13	15 21 PP
GRANADA	80.82	54.0	12 14	-3	22	20	-5	28 26 SS
FOLINIERE	80.96	42.0	12 17	-1				
G. G. VIDELA	81.59	167.7	12 17	-4	22	18	-15	
ARGENTINE I.	81.69	168.4	12 22	1				
ALMERIA	81.77	54.1	12 23A	1	22	39	4	18 49
PARIS	82.88	41.6	12 42	14	22	41	-5	15 56 PP
ALICANTE	83.02	52.3	12 30	2	22	48	1	15 42 PP
TORTOSA	83.24	49.8	12 33	4	22	47	-3	
AFIAMALU	83.28	253.9	12 26	-4				
GARCHY	83.60	43.0	12 31	0				15 48 PP
DE BILT	83.78	38.0	12 36K	4	22	56	1	
CLERMONT-FD.	83.99	44.5	12 33K	0	22	57	0	
SKAL STUGAN	84.09	25.8	12 36A	2				
WITTEVEEN	84.47	37.0	12 38	2				
KHEYS	84.47	4.7						12 37 PCP
MUNSTER	85.26	37.7	12 42	2				
BENSBERG	85.27	38.7	12 40	0	23	6	-4	12 52
BESANCON	85.53	42.5	12 41	0				13 40
GOTEBORG	85.90	31.4	12 44A	1				
NEUCHATEL	86.24	42.6	12 45	0				
STRASBOURG	86.32	40.9	12 46	1	23	9	-11	13 33
BASLE	86.50	42.0	12 46	0				
KARLSRUHE	86.60	40.4	12 43	-3				23 13 SKP
HEIDELBERG	86.68	39.9	12 47	0				
COPENHAGEN	86.83	33.3	12 48	1	23	16	-9	

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1961						PAGE 851	
ISOLA	87.10	45.3	12 29	-20			16 14 PP
ROSELEND	87.12	43.9	12 45	-4			
TUBINGEN	87.16	40.7	12 49	0			
EBINGEN	87.20	41.1	12 47	-2			
STUTTGART	87.22	40.4	12 49	0	23 29	0	16 14 PP
MONACO	87.49	45.6	12 50	-1			
RAVENSBERG	87.74	41.3	12 52	0			
UPPSALA	87.84	28.3	12 52	0	23 21	-13	
SODANKYLA	87.87	19.8	12 52	0			16 17 PP
JENA	87.94	37.9	12 52	-1	23 40	5	16 20 PP
PAVIA	88.25	43.9	13 16	22			18 14 PPP
COLLMBERG	88.66	37.3	12 56K	0	22 38	-64	16 23 PP
CHEB	88.71	38.5	12 57	1			13 35
PRAGUE	89.95	38.1	13 4	2	23 36	-18	
PRATO	89.97	44.7	12 56	-6	24 0	6	
PADOVA	89.98	43.1	13 5	3	23 40	-14	26 58 SKKS
KAJAANI	90.01	22.3	13 1	-2			16 31 PP
PETROPAVLOVK	90.04	325.2	13 2	-1	23 45	-10	16 37 PP
PRUHONICE	90.05	38.1	13 4	1	23 35	-20	16 36 PP
FLORENCE X.	90.10	44.7	13 8	5	24 3	8	
TIKSI	90.32	347.9			23 36	-21	16 21 PP
NURMI JARVI	90.67	26.1	13 6	0			16 41 PP
HELSINKI	90.97	26.4	13 6	-1			
MAGADAN	91.03	333.0	13 6	-1			
TRIESTE	91.13	42.4	13 8	0			13 20 16 50 PP
LJUBLJANA	91.49	41.8	13 10K	1			13 20 16 50 PP
ROME	91.59	46.2	13 9K	-1	24 1	-8	13 21 16 50 PP
VIENNA-H.	91.82	39.3	13 11	0			
BRATISLAVA	92.30	39.2	13 13	0			16 51 PP
WARSAW	92.85	34.4	13 24	8	23 49	-31	16 57 PP
KRAKOW	93.20	36.7	13 18	1			16 58 PP
PULKOVO	93.45	25.2	13 18	0			
SKALNATE PL.	93.77	37.4	13 28	8			13 36 PCP
BYRD STATION	94.80	184.6	13 22	-3			
MESSINA	95.12	48.8	13 27	1	23 59	-3	17 23 PP
TARANTO	95.46	46.2			24 18	15	37 23
BELGRADE	95.80	41.2	13 33K	4	24 0	-5	17 24 PP
TITOGRAD	96.04	43.8	13 32	2	24 10	3	17 30 PP
YAKUTSK	97.45	341.4	13 35	-2			17 33 PP
MOSCOW	99.03	26.0	13 44	0			24 30
Y.-SAKHLINSK	101.90	325.0					18 6 PP
ISTANBUL KA.	103.15	41.5	13 54	-8	24 32	-10	18 6 PP
SOUTH POLE	103.78	180.0	14 6	1			
CAPE HALLETT	105.36	198.3	14 10	777	23 52	-60	18 26 PP
SCOTT BASE	105.75	192.5	14 20	777			18 27 PP
SVERDLOVSK	106.07	15.0			24 58	3	18 36 PP
TUKUBASAN	109.75	317.0					19 20 PP
KSARA	111.65	44.7	14 43	-233	26 58	99	19 20 PP
IRKUTSK	112.56	349.0	14 43	-235			19 26 PP
GORIS	114.45	34.1	18 42	0			19 38 PP
RABAUL	115.67	272.0	18 44	0			19 40
ULAN-BATOR	116.12	345.7	18 41	-4			19 52 PP
TEHERAN	119.93	33.7	18 53	1	25 59	9	
PEKING	120.15	334.9	18 52	-1			20 15 PP
ASHKABAD	121.60	27.0	18 57	1			
PORT MORESBY	121.62	267.4	18 55	-1			
FRUNSE	122.34	11.3	18 59	2			20 36
TASHKENT	122.53	16.3	18 58	0			20 35 PP
BROKEN HILL	122.81	98.4	18 59A	1			
BULAWAYO	123.48	105.1	18 59	0			
MAWSON	123.93	168.9	18 57	-3			19 9 20 34 PP
ZO-SE	124.86	324.7	19 2K	0			20 48 PP
SHIRAZ	125.07	37.7	19 3K	1			21 49 PP
NANKING	125.43	327.3	19 2K	-1			20 38 PP
SIAN	128.02	337.5	19 8K	0			21 10 PP
LANCHOW	128.03	343.3	19 8K	0			
ADELAIDE	129.53	236.0	19 10A	-1			
QUETTA	131.90	24.2	19 16	0			22 46 PKS
CHENGTU	133.00	340.6	19 18K	0			21 45 PP
LAHORE	133.08	15.6	19 17	-1			22 46 PKS
DEHRA DUN	135.12	11.7	19 18	-4			19 50
CANTON	135.46	325.2	19 24	2			22 1 PP
LHASA	136.62	355.6	19 27K	3			22 3 PP
NEW DELHI	136.62	13.4	19 24	0			22 4 PP
KUNMING	138.53	339.0	19 28K	0			22 19 PP
TANANARIVE	141.31	103.0	19 29	-4			
CHITTAGONG	143.76	353.4	19 36	-1			
NHATRANG	146.37	319.4	19 44	3			23 26 PP

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1961

PAGE 852

MUNDARING 148.23 230.6 19 41A -3
 LEMBANG 159.11 287.5 20 3 3
 MEDAN 159.47 326.8

21 6

SEPTEMBER 1 18.H 59.M 35.S EPICENTRE 35.38 139.42 DEPTH= 48.KM

A=-0.62067 B= 0.53157 C= 0.57636 D= 0.6505 E= 0.7595
 G=-0.4378 H= 0.3749 K=-0.8172 HT= -0.0

DEPTH OF FOCUS= 0.002R

SE= 3.65

	DELTA DEG.	AZ. DEG.	P		O-C S	S		D-C		*PP		SUPP.	
			M	S		M	S	M	S	M	S		
YOKOHAMA	0.19	74.2	0	7A	-2	0	15	-1					
TOKYO C.M.O.	0.40	41.5	0	9A	-2	0	18	-2					
AJIRO	0.42	219.0	0	6A	-6	0	12	-8					
HONGO	0.44	40.4	0	9	-3	0	18	-3					
MISIMA	0.46	236.5	0	7K	-5	0	12	-9					
HUNATU	0.55	283.1	0	4	-9	0	9	-14					
MERA	0.57	143.7	0	13K	0	0	24	1					
OSIMA	0.61	183.3	0	11K	-3	0	21	-3					
TITIBU	0.66	335.2	0	9	-5	0	16	-9					
KOHU	0.76	292.8	0	10K	-5	0	17	-10					
KUMAGAYA	0.77	357.5	0	13K	-3	0	24	-3					
SHIZUOKA	0.93	244.4	0	13	-4	0	24	-6					
TUKUBASAN	1.01	33.1	0	17K	-1								
KAKIOKA	1.05	35.7	0	18K	-1	0	32	-1					
MAEBASI	1.06	344.5	0	15A	-4	0	28	-5					
OIWAKE	1.19	323.6	0	19	-2	0	33	-3					
TYOSI	1.21	73.2	0	22K	1	0	41	4					
UTUNOMIYA	1.23	17.1	0	21	0	0	37	0					
OMAESAKI	1.26	232.2	0	20	-2	0	37	-1					
IIDA	1.31	276.7	0	19	-3	0	32	-7					
MITO	1.31	40.1	0	22A	0	0	41	2					
MATUMOTO	1.47	306.8	0	22	-3	0	42	-1					
MATUSIRO	1.52	320.1	0	22	-3	0	40	-4					
MATUSIRO	1.52	320.1	6	21	356								
NAGANO	1.63	322.8	0	24A	-3	0	45	-2					
SHIRAKAWA	1.85	20.1	0	29	-1	0	52	-1					
TAKAYAMA	1.93	294.2	0	29	-2	0	51	-3					
TAKADA	1.96	331.5	0	29	-2	0	57	2					
ONAHAMA	1.97	36.9	0	35	3	0	54	-1					
NAGOYA	2.02	264.8	0	30A	-2	0	53	-4					
GIHU	2.17	271.4	0	32	-2	1	1	1					
TOYAMA	2.23	306.9	0	34	-1	0	58	-4					
HATIDYOZIMA	2.29	172.3	0	37	1	1	7	4					
TU	2.48	255.0	0	41	2	1	7	-1					
KAMEYAMA	2.48	258.6	0	39	0	1	9	1					
HUKUSIMA	2.51	19.3	0	39A	0	1	10	1					
KANAZAWA	2.53	297.9	0	39	0								
NIIGATA	2.56	353.4	0	41	1	1	17	7					
HIKONE	2.60	268.5	0	38	-2	1	9	-2					
TSURUGA	2.75	276.6	0	40	-3	1	13	-2					
AIKAWA	2.80	340.7	0	47	4	1	21	5					
WAZIMA	2.85	315.2	0	43	-1	1	23	5					
OWASE	2.96	244.7	0	49	3	1	25	5					
YAMAGATA	2.96	14.3	0	42	-4	1	26	6					
NARA	3.03	257.7	0	47	0	1	17	-5					
KYOTO	3.04	264.3	0	43	-4	1	26	4					
SENDAI	3.12	21.9	0	47	-1	1	26	2					
ABUYAMA	3.20	262.0	0	46A	-3								
OSAKA	3.28	258.3	0	56	6	1	36	8					
MAIZURU	3.29	272.8	0	51	1	1	34	5					
ISINOMAKI	3.41	26.0	0	51	-1	1	30	-2					
SAKATA	3.53	5.2	0	56	2								
KOBE	3.55	259.9	0	57	3	1	45	10					
SIOMISAKI	3.58	238.5	1	6	12	1	33	-3					
WAKAYAMA	3.68	253.1	0	57	1								
TOYOOKA	3.76	273.6	1	3	6	1	46	6					
SUMOTO	3.85	255.7	1	2	4	1	52	9					
MIZUSAWA	3.99	19.5	1	1	1	1	47	1					
TOKUSIMA	4.20	253.3	0	42	-21								
TOTTORI	4.28	273.3	1	7	3	1	52	-2					
TAKAMATU	4.50	259.3	1	14	6	2	7	8					

2 19

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1961

PAGE 853

MORIOKA	4.53	17.3	1 10	2	2 2	2	
OKAYAMA	4.57	262.8	1 9	1	2 3	2	
MIYAKO	4.72	24.6	1 27	17			2 7
MUROTO	4.83	245.4	1 27	15	2 27	20	
YONAGO	4.96	272.4	1 27	13	2 27	16	
MATSUE	5.19	272.6	1 29	12	2 42	26	
KOTI	5.20	251.1	1 22	5	2 22	5	
HATI NOHE	5.41	17.3	1 25	5	2 42	20	
ADMORI	5.54	10.7	1 27	5	2 44	19	
MATUYAMA	5.69	256.3	1 31	7	2 56	27	
HIROSIWA	5.83	262.1	1 42	16	2 52	20	
MORI	6.77	7.3	1 51	12			
OOTA	6.80	253.9					3 30
KUMAMOTO	7.67	253.1					2 55
HUKUOKA	7.68	259.1					3 31
SAPPORO	7.83	10.4	1 56	2			3 39
SAGA	7.84	256.9	2 32	38	3 18	-4	
OBHIRO	8.08	20.1					3 27
KUSIRO	8.52	25.5					3 30
CHANGCHUN	13.76	312.1	3 16	2			
ZO-SE	15.85	259.5	3 37	-4	6 47	12	
NANKING	17.49	265.0	3 59	-3	7 24	11	
PEKING	18.96	291.1	4 18	-2	7 51	5	
GUAM	22.34	166.3	4 53	-2			5 17
CHATRA	45.11	274.2					10 28
VISHAKHPTNM	52.52	265.7					10 48
LAHORE	53.56	285.7	9 14	-4			
MADRAS	57.58	262.9					11 4
POONA	59.82	272.1					10 37
QUETTA	59.91	287.4	10 0	-3			
BRISBANE	63.69	166.8					16 58
SODANKYLA	65.86	337.0	10 40K	-2			
KAJAANI	67.37	333.7	10 47	-5			
NURMI JARVI	70.64	331.6	11 10K	-2			
HELSINKI	70.73	331.2	11 10	-3			
SHIRAZ	71.21	293.3	11 11K	-5	20 0	-28	12 46
UPPSALA	73.73	333.5	11 28	-2			
EUREKA	78.14	49.9	11 57	2			
KARAPIRO	80.26	151.8	12 8	1			
COLLMBERG	81.72	329.3	12 13	-2			15 21 PP
KASPERSKE H.	83.09	327.6	12 20	-2			
STUTTGART	85.20	329.5	12 37	5			
WICHITA MTS.	91.71	44.3	12 47	-16			13 20
WILKES	103.80	191.6					23 23
SCOTT BASE	114.17	173.9					20 33 PP
BYRD STATION	126.50	167.7	18 58	0			21 53

SEPTEMBER 2 O.H 26.M 3.S EPICENTRE 52.18-171.05 DEPTH= 0.KM

A=-0.60820 B=-0.09582 C= 0.78798 D=-0.1556 E= 0.9878
G=-0.7784 H=-0.1226 K=-0.6157 HT= -6.2

SE= 1.68

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C S	M	S	O-C S	M	S	M	S
COLLEGE	17.42	34.2	4	6	0	7	23	3			5	38
PETROPAVLOVK	18.36	284.6	4	6	-12	7	43	2				
SITKA	21.08	62.5	4	50	1							
MAGADAN	22.37	304.3	5	5	3							
VICTORIA	30.18	77.7	6	16	1							
PENTICTON	32.11	74.3	6	32A	1							
KIPAPA	32.33	156.9	6	33	0							
YAKUTSK	32.50	311.0	6	34	-1							
BANFF	33.72	69.2	6	51A	5							
SHASTA	34.81	89.6	6	55	0							
HAWAII V.OB.	34.94	153.4	6	56	0	12	27	-1				
MINERAL	35.50	89.5	6	40A	-21						7	21
HUNGRY HORSE	35.84	72.9	7	5	1						9	32 PCP
BERKELEY	36.61	93.3	7	11	1							
RESOLUTE	36.98	25.4	7	13	0							
RENO	37.09	89.2	7	16	2							
LICK	37.32	93.5	7	17K	1							
BUTTE	37.86	75.4	7	18	-3							
MATUSIRO	38.66	266.6	7	27K	0	13	25	0			9	39 PPP
FRESNO	38.82	92.7	7	30	1							

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1961

PAGE 854

BOZEMAN	38.95	75.0	7 30	0				
EUREKA	39.49	86.3	7 34	0			9 43	PCP
ABUYAMA	41.37	266.9	7 51A	1				
PASADENA	41.54	94.4	7 47	-4	14	8	0	
CHANGCHUN	42.13	284.8	7 56A	0				8 23
BOULDER CITY	42.39	89.6	8 1	3				
FLAMING GRGE	42.63	79.9	8 0	0			13 39	SCP
GLEN CANYON	43.74	86.0	7 9	-60			12 44	
RAPID CITY	44.47	72.3	8 15	0				
LARAMIE	44.70	77.0	8 17	0				
TUCSON	47.34	90.4	8 38	0				
TUCSON TELE.	47.35	90.2	8 39	1				
PEKING	49.85	286.4	8 57	0	16	6	-1	
ULAN-BATOR	50.18	299.9	9 0	0				
LAWRENCE	52.32	72.7	9 31	15				
ZO-SE	52.79	274.4	9 20A	0	16	47	0	
WICHITA MTS.	53.16	78.9	9 22	0	16	53	1	20 48
NANKING	53.59	277.0	9 24A	-1	16	54	-4	SS
FAYETTEVILLE	54.86	74.7	9 33A	-2				
ROLLA	54.99	71.5	9 32	-4	17	11	-6	
ST. LOUIS 1	55.46	69.8	9 37A	-2	17	19	-4	9 52
BLOOMINGTON	57.22	66.9	9 50A	-2				
SIAN	58.01	285.9	9 58A	1				
OTTAWA	58.74	55.1	10 1	-1				
SHAWINIGAN	59.40	52.5	10 6A	-1				
LANCHOW	59.73	290.8	10 9A	0				
SODANKYLA	60.03	352.2	10 11A	0				10 58
PENNSYLVANIA	60.86	60.2	10 15	-2	18	31	-3	PCP
SEMI PALATNSK	61.37	316.3	10 18	-2				
REYKJAVIK	61.56	14.8	10 21A	-1				
SIDA	62.46	13.2	10 29K	1				
PALISADES	62.79	57.6	10 29	-1	18	57	-2	12 45
FORDHAM	62.93	57.7	10 29	-2	18	54	-6	PP
KAJAANI	63.16	350.9	10 28	-4				11 37
SVERDLOVSK	63.36	331.2	10 34	0				
CANTON	63.38	273.8	10 34	0	19	7	1	
HONG KONG	63.45	272.6	10 34	0				
CHAPEL HILL	63.72	64.8	10 35	-1				
COLUMBIA	64.00	67.6	10 37	-1				
SKALSTUGAN	64.55	358.4	10 40A	-2				11 15
HALIFAX	65.18	48.6	10 44	-2				PCP
NURMI JARVI	66.95	351.6	10 56A	-1				
PULKOVO	67.08	348.5	10 53	-5				
HELSINKI	67.26	351.4	10 57	-2				
UPPSALA	68.10	355.3	11 3	-1				11 29
KUNMING	68.31	283.2	11 4A	-1	20	6	0	PCP
FRUNSE	69.69	314.4	11 14A	0				
MOSCOW	69.87	343.2	11 14	-1				
GOTEBORG	70.45	358.3	11 18A	-1				
PORT MORESBY	71.03	224.1	11 35	13	20	35	-3	
LHASA	71.70	294.7	11 29A	3				
ANDI JAN	72.36	314.5	11 30	0				
COPENHAGEN	72.46	357.9	11 31A	0				
NAMANGAN	72.48	315.1	11 31	0				
DURHAM	73.06	6.4	11 35A	1				
TASHKENT	73.22	316.9	11 34	-1				
SHILLONG	74.36	291.4	11 41A	-1				
WITTEVEEN	75.35	1.4	11 48A	1				
SAMARKAND	75.56	317.5	11 48A	-1				
CHATRA	76.03	295.7	11 52A	1				
MUNSTER	76.21	0.8	11 54	2				
KEW	76.42	6.0	11 53A	-1				
HALLE	76.66	358.1	11 58	3			14 3	
COLLMBERG	76.83	357.4	11 55A	-1			12 57	
CHITTAGONG	76.86	289.4			21	39	-4	15 2 *PPP
JENA	77.24	358.3	11 58	0			14 3	
KRAKOW	77.72	352.8	12 0	-1			12 21	PCP
RACIBORZ	77.81	353.9	12 3	2			12 9	PCP
CHEB	78.07	357.7	12 3	0			12 41	
PRUHONICE	78.10	356.3	12 3A	0			12 46	
SKALNATE PL.	78.56	352.5	12 7A	2				
HEIDELBERG	78.79	0.2	12 7	0				
LAHORE	78.97	307.7	12 7	-1				
KASPERSKE H.	78.99	356.9	12 7A	-1				
FOLINIERE	79.10	6.3	12 8	0				
PARIS	79.23	4.3	12 11	2				
STUTTGART	79.42	359.8	12 9	-1				
STRASBOURG	79.61	0.8	12 12	1				
TUBINGEN	79.66	359.9	12 11	0				

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1961

PAGE 855

VIENNA-H.	79.74	355.0	12 16	4					
BRATISLAVA	79.78	354.5	12 12K	0					
NEW DELHI	79.96	303.9	12 11A	-2					
EBINGEN	80.01	360.0	12 13	0					
RAVENSBUrg	80.41	359.5	12 16	1					
BASLE	80.66	0.9	12 24	7					
GARCHY	80.79	4.1	12 19	2				12 28	PCP
SIMFEROPOL	80.84	342.2	12 18A	0					
BESANCON	80.91	2.1	12 18	0					
CHARTERS TS.	81.01	220.2	12 19	1					
NEUCHATEL	81.18	1.4	12 20	1					
TIFLIS	81.44	333.7	12 23	2					
LJUBLJANA	82.03	356.1	12 24A	0					
CLERMONT-FD.	82.30	4.1	12 25A	0					
ROSELEND	82.70	0.9	12 27	0					
QUETTA	83.59	312.4	12 32A	0	22 51	-3	12 43	15 42	PP
ISOLA	84.00	1.4	12 35	1				12 42	PCP
MONACO	84.46	1.1	12 36	0					
SAN JUAN	84.47	67.2	12 36	0					
TEHERAN	84.92	326.6	12 40	1					
BRISBANE	85.33	211.8						23 4	
SERRA PILAR	85.82	13.2	12 42K	-1					
ROME	86.24	357.4						24 41	
COIMBRA	86.76	13.2	12 47A	-1					
TOLEDO	87.62	10.0	12 52A	0				16 3	PP
CHINCHINA	89.44	82.7	13 2K	1					
POONA	89.94	300.8	13 2	-1					
SHIRAZ	90.03	323.1	13 2A	-1	24 7	12		23 30	SKS
FUQUENE	90.20	80.9	13 5K	1					
CARACAS	90.29	72.5	13 5A	1	24 56	58			
GRANADA	90.34	10.0						28 44	SS
KARAPIRO	90.50	190.6	13 5	0					
KSARA	91.17	337.8	13 12	3					
JERUSALEM	93.28	337.8	13 18A	0					
SCOTT BASE	130.49	186.0	19 11	-2				22 31	SKP
BROKEN HILL	139.25	330.3	19 22	-8					
SOUTH POLE	142.00	180.0	19 29	-5					
ARGENTINE I.	142.15	138.9	19 28	-7					
BULAWAYO	144.54	327.0	19 38	-1					
MAWSON	150.08	218.4	19 53	5				37 0	PPS
PIETERMZBURG	152.43	316.5	20 0	9					
KIMBERLEY	153.79	327.2	19 54	1					

SEPTEMBER 2 10.H 50.M 46.S EPICENTRE -1.90 67.76 DEPTH= 210.KM

A= 0.37834 B= 0.92508 C=-0.03293 D= 0.9256 E=-0.3785
G=-0.0125 H=-0.0305 K=-0.9995 HT= 7.2

DEPTH OF FOCUS= 0.028R

SE= 2.27

	DELTA DEG.	AZ. DEG.	P M S	O-C S	M S S	O-C S	*PP M S	SUPP. M S
KODAIKANAL	15.45	38.6						5 17
MADRAS	19.27	39.5	4 5	-5				
POONA	21.17	16.2	4 28	-1				
BOMBAY	21.26	13.3	4 43	13	8 33	24		
TANANARIVE	26.04	228.1	5 13A	-2				6 20
MEDAN	31.38	80.0	6 3A	0				
QUETTA	31.91	358.7	6 7A	-1	11 20	18	6 33	7 43 PPP
LAHORE	33.85	10.1	6 24A	0				
SHIRAZ	34.59	336.2	6 28A	-2	11 59	16		7 45 PP
LHASA	38.46	33.6	7 3	0	12 58	16		
LEMBANG	40.03	98.3	7 17K	1				11 12
STALINABAD	40.28	1.2	7 16	-2				
TEHERAN	40.45	339.3	7 19	0	13 41	29		
BROKEN HILL	40.75	250.0	7 20A	-2				
SAMARKAND	41.37	359.1	7 25	-2				
BULAWAYO	42.31	241.8	7 33A	-1				
ANDIJAN	42.65	5.2	7 37	0				
TASHKENT	43.04	1.7	7 39	-1	14 11	22		
KUNMING	43.25	49.3	7 42K	0	14 10	18		
FRUNSE	44.95	7.1	7 56A	0				
JERUSALEM	45.55	320.1	8 0A	0				
GORIS	45.65	336.7	8 1K	0	14 54	27		

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1961

PAGE 856

KSARA	46.50	322.7	8 8	0				10 2 PP
CHENGTU	47.33	43.9	8 13K	-1	15 7	16		8 36
TIFLIS	48.15	336.9	8 21	1				
MAKHACH-KALA	48.25	340.1	7 22	-59				
KIMBERLEY	48.86	232.6	8 33K	7				
BANGUI	49.49	277.4	8 28	-3				10 26
LANCHOW	50.55	38.2	8 38	-1	15 57	22		
SIAN	52.78	43.2	8 56K	1	16 24	18		
SEMIPALATNSK	53.19	10.0	8 56A	-2				
SIMFEROPOL	55.41	331.5	10 14	60				
NANKING	58.91	50.4	9 39	0	17 45	19		10 2
ULAN-BATOR	60.20	29.3	9 48	0				
ZO-SE	60.40	52.4	9 49K	0	18 5	19		10 11
PEKING	60.77	41.2	9 52K	0	18 11	21		10 17
IRKUTSK	62.14	24.5	10 0	-1				
MOSCOW	62.49	341.3	10 2	-1				
BELGRADE	62.66	323.9	10 14	10				10 41
DARWIN	63.31	102.8	10 8	0				
LWOW	63.72	330.0	10 12	1				
SKALNATE PL.	65.28	327.8	10 22	1				
NI EDZIKA	65.38	328.1	10 20	-2				10 53
HURBANOVO	65.66	325.8						11 20
MAWSON	65.66	182.0	10 22	-2				
BRATISLAVA	66.44	325.6	10 27	-1				10 40 PCP
LJUBLJANA	66.86	322.6	10 30	-1				
MIRNY	66.92	169.3	10 30	-1				
TRIESTE	67.14	322.0	10 33	0				
CHANGCHUN	68.57	41.0	10 42K	0	19 55	29		11 55
PRUHONICE	68.82	326.3	10 42	-1				
KASPERSKE H.	68.94	325.2	10 43	-1			11 10	
COLLMBERG	70.34	327.0	10 52	0			11 25	13 33 PP
NURMIJARVI	70.58	339.0	10 55	1				
ROSELEND	70.93	319.8	11 1	5				
JENA	70.94	326.2	10 55	-1				
HALLE	71.01	326.9	10 56	0				
STUTT GART	71.27	323.5	10 58	0				
STRASBOURG	72.10	322.8	11 3	0				
KAJAANI	72.14	342.7	10 58	-5				
BESANCON	72.67	321.0	11 8	2				
UPPSALA	72.84	336.1	11 7	0				
MUNSTER	73.62	326.0	11 13	1				
WITTEVEEN	74.51	326.5	11 18K	1				
GARCHY	74.52	320.3	11 17	0				
PARIS	75.42	321.7	11 24	2				
MATUSIRO	75.54	51.6	11 20	-3	21 8	24		11 42
GRANADA	76.39	308.9	11 31K	4				13 53
TOLEDO	77.34	311.5	11 36	3				
CHARTERS TS.	78.55	110.0	11 41	2				
PORT MORESBY	79.23	99.1	11 45K	2				15 27
SERRA PILAR	81.00	312.0	11 49A	-3				
SOUTH POLE	88.11	180.0	12 29	1				
BYRD STATION	98.08	178.7						17 7
PALISADES	127.94	323.5						38 2 SS
LA PAZ	132.77	245.5	18 56	6				
HUNGRY HORSE	133.70	1.6						21 23
LARAMIE	140.31	352.1	19 8	4				
FLAMING GRGE	141.06	356.6	19 16	11				
EUREKA	142.44	4.7	19 9	1				22 14 PP
WICHITA MTS.	144.95	340.2	19 16A	4				41 31 SS
BOULDER CITY	146.01	3.8	19 21	7				
PASADENA	147.44	9.2	19 22	6				
TUCSON TELE.	149.69	357.4	19 25	6				
TUCSON	149.78	357.6	19 26	6				

SEPTEMBER 4 3.H 17.M 25.S EPICENTRE 30.27 138.70 DEPTH= 455.KM

A=-0.64996 B= 0.57096 C= 0.50155 D= 0.6600 E= 0.7513
G=-0.3768 H= 0.3310 K=-0.8651 HT= 1.7

DEPTH OF FOCUS= 0.067R

SE= 2.15

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S S	*PP M S	SUPP. M S
TORISIMA	1.40	81.0	0 59	1	1 44	-1		

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1961

PAGE 857

HATIDYOZIMA	2.97	17.9	1	9	2	1	59	-2	
DMAESAKI	4.34	354.7	1	21	2				
OSIMA	4.52	7.1	1	20	-1				
SHIZUOKA	4.69	357.0				2	27	0	
NERA	4.73	11.3	1	21	-2	2	24	-4	
AJIRO	4.78	3.9	1	22A	-1	2	28	-1	
TU	4.79	337.9	1	25	2				
MISIMA	4.84	2.4	1	23	-1	2	27	-3	
KAMEYAMA	4.94	338.2	1	26	2	2	32	1	
NARA	5.02	331.8	1	27	2				
NAGOYA	5.10	343.8	1	27A	1	2	36	2	
YOKOHAMA	5.21	8.6	1	29	2	2	34	-2	
HUNATU	5.21	0.6	1	28	1	2	37	1	
IIDA	5.29	352.3	1	28	0				
ABUYAMA	5.29	330.9	1	28	0				
KYOTO	5.36	332.9	1	30	1				
GIHU	5.37	342.9	1	29	0				
KOHU	5.39	358.8	1	29	0	2	39	0	
HIKONE	5.40	338.1	1	33	4	2	45	6	
TOKYO C.M.O.	5.47	9.0	1	29	-1	2	38	-3	
TITIBU	5.70	3.1	1	31	-1	2	43	-2	
TYOSI	5.73	17.8	1	31K	-1	2	44	-1	
TSURUGA	5.80	338.3	1	33	0				
KUMAGAYA	5.89	5.4	1	33A	-1	2	47	-1	
MATUMOTO	5.99	354.3	1	35	0				
OIWAKE	6.04	358.8	1	36	1	2	50	-1	
TUKUBASAN	6.05	10.8	1	33	-3	2	47	-4	
KAKI OKA	6.07	11.4	1	33	-3	3	19	27	
MAEBASI	6.12	2.8	1	34	-2	2	51	-2	
MATUYAMA	6.16	306.8	1	38	1	2	55	2	
MATUSIRO	6.27	356.4	1	37A	-1	2	54	-1	
MI TO	6.27	13.2	1	36A	-2	2	52	-3	
UTUNOMIYA	6.34	8.5	1	36	-3	2	50	-7	
NAGANO	6.40	356.4	1	39K	0	2	55	-3	
ONAHAMA	6.91	14.8	1	44K	-1	3	5	-3	
HUKUSIMA	7.60	10.6	1	51	-1	3	15	-6	
YAMAGATA	8.08	9.3	1	56A	-1	3	27	-3	
SENDAI	8.18	12.2	1	57A	-1	3	27	-5	
ISINOMAKI	8.42	14.2	2	0A	-1	3	34	-3	
MI ZUSAWA	9.06	12.1	2	9	1	3	59	9	
AKITA	9.50	6.5	2	14	1				2 48
MORIOKA	9.62	11.5	2	13	-1	4	2	1	
AOMORI	10.66	8.6	2	36	10				
HAKODATE	11.63	7.6	2	36	0				
MORI	11.90	6.8	2	41	2				
URAKAWA	12.30	14.4	2	46	3				
KUSIRO	13.48	18.2							5 29
ZO-SE	15.10	277.6	3	10	-3				5 48
NANKING	17.15	281.1	3	32K	-1	6	26	0	
CHANGCHUN	17.21	325.5	3	36	2	6	29	2	
PEKING	20.79	304.0	4	8	-1	7	28	-1	
SIAN	25.45	286.8	5	31K	40				
LANCHOW	29.65	290.5	5	28K	0	9	53	2	
CHENG TU	29.84	279.7	5	29K	-1	9	49	-5	
KUNMING	32.17	269.7	5	49K	-1				
SHILLONG	41.42	275.3	7	5K	-1				
DARWIN	43.07	191.3	7	19	0	13	7	-5	
CHATRA	45.09	278.9	7	35K	0				
CHARTERS TS.	50.59	170.8	7	17	0				
LAHORE	54.51	289.0	8	44	-1				
COLLEGE	56.04	29.6	8	56	0				10 56
QUETTA	60.96	289.8	9	29K	0				
SODANKYLA	70.33	337.6	10	30K	2				
KAJAANI	71.68	334.4	10	33K	-3				
KIRUNA	72.03	339.4	10	37	-1				
SHIRAZ	72.72	294.5	10	41	-1				
NURMI JARVI	74.84	332.1	10	54K	0				
HELSINKI	74.91	331.7	10	55	1				
KARAPIRO	76.08	150.8	11	1	0				
SKALSTUGAN	77.36	338.4	11	7K	-1				
UPPSALA	78.02	333.8	11	10K	-1				
HUNGRY HORSE	78.33	40.6	11	15	2				14 16
GOTEBORG	81.64	334.2	11	29	-1				
EUREKA	81.92	48.9	11	33	2				
WOODY	81.97	53.4	11	34	2				
COPENHAGEN	82.90	332.6	11	36	0				
KSARA	83.22	305.2	11	39	1				
NIEDZIKA	83.61	324.7	11	41	1				12 17
JERUSALEM	84.77	303.7	11	46	0				

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1961

PAGE 858

FLAMING GRGE	85.25	44.9	11 59	11					13 30
COLLMBERG	85.79	329.3	11 51K	0		13 37			
PRUHONICE	86.02	327.6	11 52	0					
KASPERSKE H.	87.06	327.5	11 56K	-1					
LJUBLJANA	88.77	324.8	12 4K	-1					
STUTTGART	89.28	329.3	12 7	0					
FOLINIERE	93.27	334.3	12 25	0					
WICHITA MTS.	95.78	44.2	12 39	2					13 36
SOUTH POLE	120.10	180.0	17 58	0					
BYRD STATION	121.65	168.4	17 57	-4					20 39

SEPTEMBER 4 9.H 49.M 15.S EPICENTRE 51.58-178.25 DEPTH= 52.KM

A=-0.62366 B=-0.01900 C= 0.78146 D=-0.0305 E= 0.9995
 G=-0.7811 H=-0.0238 K=-0.6239 HT= -6.0

DEPTH OF FOCUS= 0.003R

SE= 1.42

	DELTA DEG.	AZ. DEG.	M	P	S	O-C S	M	S	O-C S	*PP M S	SUPP. M S
PETROPAVLOVK	14.19	284.9	3	20A	0						
MAGADAN	19.08	306.8	4	21	0						
COLLEGE	20.55	38.0	4	34	-3	8	31	12			12 16 SCP
YAKUTSK	29.52	311.0	6	0	-2						
KIPAPA	33.98	144.8	6	40	-1						
HONOLULU	34.06	145.0	6	41	-1						
MATUSIRO	34.15	261.1	6	43A	1	12	7	3			7 53 PP
VICTORIA	34.65	72.9	6	47A	0						
PENTICTON	36.54	69.8	7	3A	0						
CORVALLIS	36.61	78.8	7	5A	2						
ABUYAMA	36.87	261.4	7	6A	1						
CHANGCHUN	37.91	281.1	7	14A	0	13	2	0			8 45 PP
BANFF	38.07	65.1	7	15A	-1						
SHASTA	39.30	83.5	7	27A	1						
RESOLUTE	39.42	24.6	7	28	1						
UKIAH	39.71	86.1	7	29	0						
HUNGRY HORSE	40.26	68.4	7	33	-1						9 38 PCP
SAN FRANCISCO	41.02	87.2	7	41	1						
BERKELEY	41.07	86.9	7	40A	0	13	49	0			
CONCORD	41.13	86.6	7	41A	0						
RENO	41.58	83.1	7	45	0						
LICK	41.79	87.1	7	46A	0						8 8
BUTTE	42.31	70.6	7	50	-1						13 29 SCP
VINEYARD	42.32	87.6	7	50	-1						
FRESNO	43.29	86.4	7	59	0						
BOZEMAN	43.39	70.2	8	0	1	14	26	3			
EUREKA	43.99	80.6	8	5	1	14	42	10			10 9 PP
KHEYS	44.43	348.8	8	9	1	14	43	5			
IRKUTSK	45.58	302.9	8	17A	0						
PEKING	45.67	282.2	8	19A	1	15	1	5			10 3 PP
SALT LAKE C.	45.73	76.4	8	19	1						
PASADENA	45.99	88.0	8	20A	0	15	3	2	8 34		13 55 SCP
ULAN-BATOR	46.53	296.5	8	27	3						
BOULDER CITY	46.88	83.6	8	29	2						
FLAMING GRGE	47.12	74.7	8	27	-2	15	19	2			13 47 SCP
GLEN CANYON	48.25	80.3	8	37	-1						13 40 SCP
GUAM	48.28	231.7	8	34	-4						
ZO-SE	48.34	269.3	8	40	1	15	38	4			
RAPID CITY	48.87	67.6	8	42	-1						
NANKING	49.19	272.1	8	45A	0	15	46	0			10 42 PP
TUCSON	51.83	84.4	9	5	0	16	27	5			11 6 PP
TUCSON TELE.	51.84	84.2	9	5	0						
SIAN	53.81	281.3	9	21A	1	16	54	5			11 25 PP
LANCHOW	55.69	286.4	9	34A	0	17	18	4			10 0
LUBBOCK	56.45	76.8	9	40	1						
WICHITA MTS.	57.64	73.6	9	46A	-2	17	44	4			21 29 SS
SEMIPALATNSK	58.61	312.7	9	51A	-3						
APATITY	58.83	346.4	9	54	-2						
CANTON	58.92	268.6	9	57A	1	18	0	3			
HONG KONG	58.99	267.3	9	57A	0	18	3	5			
CHENG TU	59.29	281.6	9	59	0	18	5	3			12 11 PP
FAYETTEVILLE	59.30	69.5	9	57A	-2	18	4	2			10 46 PCP
ROLLA	59.38	66.6	9	57A	-3	17	59	-4			
ST. LOUIS 1	59.82	64.9	10	1A	-2	18	8	1			

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1961

PAGE 859

SODANKYLA	59.90	349.2	10	5A	2					10	51	PCP	
MANILA	60.49	255.8	10	6	-1	18	28	11					
BLOOMINGTON	61.51	62.1	10	13A	-1	18	29	-1					
SVERDLOVSK	61.60	327.7	10	14A	-1								
CLEVELAND	62.56	57.2	10	20K	-1								
OTTAWA	62.67	50.7	10	19	-3								
KAJAANI	62.91	347.5	10	22A	-2						11	13	PCP
SHAWINIGAN	63.22	48.2	10	22	-4								
KUNMING	64.04	278.2	10	31	0	19	5	3					
SKAL STUGAN	64.88	354.8	10	35	-1						11	8	PCP
PENNSYLVANIA	64.96	55.5	10	35	-2	19	15	2			11	8	PCP
PULKOVO	66.62	344.7	10	51	4								
NURMI JARVI	66.75	347.9	10	47	-1						11	16	PCP
WASHINGTON	66.78	56.4	10	42	-6								
FRUNSE	66.79	310.1	10	49	1								
PALISADES	66.81	52.9	10	46	-3	19	35	-1			13	15	PP
FORDHAM	66.94	53.0	10	48	-1	19	38	1					
HELSINKI	67.04	347.6	10	49	-1						11	17	PCP
PORT MORESBY	67.67	217.3	10	53A	-1	19	49	3	11	3	11	13	PCP
LHASA	67.80	289.9	10	58A	3	19	54	6					
CHAPEL HILL	67.95	59.8	10	54	-2						19	51	
UPPSALA	68.18	351.4	10	56A	-1						11	19	PCP
TACUBAYA	68.29	85.9	10	56	-2								
COLUMBIA	68.30	62.5	10	57	-1	19	55	2					
HALI FAX	68.83	44.1	10	58	-3								
MOSCOW	69.00	339.2	11	2	0								
ANDIJAN	69.47	310.1	11	5	0	20	6	-1					
NAMANGAN	69.61	310.7	11	7	1								
SHILLONG	70.33	286.4	11	10A	0								
TASHKENT	70.46	312.4	11	11	0								
GOTEBORG	70.76	354.2	11	12A	-1						11	33	PCP
CHATRA	72.16	290.7	11	24	3								
COPENHAGEN	72.74	353.7	11	24	-1								
CHITTAGONG	72.76	284.2	11	22	-3	20	46	1			11	45	PCP
SAMARKAND	72.84	312.8	11	25A	0								
STALINABAD	72.88	311.0	11	28	2	20	57	10					
KOUMAC	73.45	197.1	11	28	-1								
DURHAM	73.98	2.0	11	31A	-1								
NOUMEA	74.78	194.7	11	35	-2								
LAHORE	75.67	302.8	11	44	2								
WITTEVEEN	75.89	356.9	11	45	2								
NEW DELHI	76.46	298.9	11	43K	-3								
DE BILT	76.65	357.8	11	49	2	21	35	6					
MUNSTER	76.70	356.3	11	48	0								
HALLE	76.93	353.5	11	49	0								
COLLMBERG	77.05	352.8	11	49A	-1						14	44	PP
LWOW	77.21	345.4	11	50	0								
KEW	77.31	1.3	11	51	0								
DARWIN	77.42	231.0	11	52	0								
JENA	77.52	353.6	11	52	0	21	33	-5			27	18	SS
KRAKOW	77.57	348.1	11	52	0						11	59	PCP
BENSBERG	77.73	356.5	11	53	0						13	38	
RACIBORZ	77.75	349.2	11	54	1						12	1	PCP
MAKHACH-KALA	77.81	327.5	11	53	-1								
PRUHONICE	78.23	351.6	11	56A	0						13	55	
CHEB	78.31	353.0	11	57	0								
SKALNATE PL.	78.38	347.7	11	58	1						12	6	PCP
KASPERSKE H.	79.16	352.1	12	0A	-1						14	44	PP
HEIDELBERG	79.22	355.4	12	1	0								
SOTCHI	79.67	333.0	12	3	-1								
BRATISLAVA	79.76	349.6	12	5	1						12	21	PCP
VIENNA-H.	79.76	350.1	12	5	1								
TIFLIS	79.82	328.7	12	6	1	22	7	5					
STUTTGART	79.82	354.9	12	5	0						12	46	
SIMFEROPOL	79.86	337.3	12	5A	0	22	8	5					
PARIS	79.98	359.5	12	5	-1						18	41	
FOLINIERE	80.01	1.5	12	6	0								
TUBINGEN	80.07	355.1	12	6	0								
STRASBOURG	80.08	355.9	12	6	0								
EBINGEN	80.42	355.1	12	7	-1								
QUETTA	80.54	307.2	12	10A	1	22	10	0	12	22	17	8	PPP
RAVENSBERG	80.79	354.6	12	9	-1								
GORIS	81.30	326.7	12	13A	0								
BESANCON	81.48	357.1	12	13	-1								
GARCH	81.51	359.1	12	13	-1						12	56	
NEUCHATEL	81.70	356.4	12	15	0								
LJUBLJANA	82.13	351.1	12	16A	-1						12	45	
BELGRADE	82.63	346.7	12	21	2	22	28	-3			23	10	PS

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1961

PAGE 860

BRISBANE	82.66	205.7	12 19	-1				
TEHERAN	82.78	321.3	12 22	2	22 40	7		
MEDAN	82.90	266.8	12 20A	-1				
CLERMONT-FD.	83.02	359.0	12 22A	1				
SOFIA	84.24	344.2	12 27	-1			12 42	16 48
ISOLA	84.51	356.2	12 30	1				
ISTANBUL KA.	84.70	339.6	12 29	-1	22 56	4		15 47 PP
ISTANBUL UN.	84.75	339.7	12 30K	0				
MONACO	84.94	355.9	12 30	-1				
BAGNERES	85.72	1.2	12 35	0				
ROME	86.43	352.0	12 38A	0	23 0	-9		24 28 PS
SERRA PILAR	87.23	7.8	12 42K	0				
TARANTO	87.33	348.2	12 25	-18				21 45
SHIRAZ	87.64	317.6	12 45	1	23 22	2		
COIMBRA	88.16	7.8	12 47	0				
SAN JUAN	88.76	61.6	12 50	0			13 1	
ATHENS	88.77	342.8	12 49	-1				
TOLEDO	88.77	4.5	12 50A	0				23 17
RIVERVIEW	89.20	205.1	12 52K	0	23 38	3		
KARAPIRO	89.30	184.9	12 50	-2				
MESSINA	89.78	349.2	12 53	-1				
KSARA	89.83	332.1	12 54A	-1				16 31 PP
CANBERRA	91.18	206.3	13 1A	0				
ST. KITTS	91.45	59.6	13 3	1				
JERUSALEM	91.93	332.0	13 4A	0				
CHINCHINA	93.94	77.0	13 14	0	23 41	-36		
CARACAS	94.68	66.8	13 19K	2	23 46	-37		
HELWAN	94.82	334.5	13 17	-1				
BOGOTA	95.16	76.0	13 22	3	23 51	2		
ST. VINCENT	95.67	60.7	13 22K	1				
TRINIDAD	97.68	62.2	13 30	-1				
LA PAZ	115.25	84.8	19 0	24				
BANGUI	122.42	339.9	18 51	1			19 1	
CAPE HALLETT	123.86	184.2	18 52K	-1				
SCOTT BASE	129.50	184.1	19 3	-1				21 18 PP
BROKEN HILL	137.19	320.1	19 9	-9				
SOUTH POLE	141.39	180.0	19 20	-6				
BULAWAYO	142.23	316.1	19 24	-3				
PORT STANLEY	143.91	114.3	19 29	-1				
MAWSON	146.85	217.9	19 35A	0			19 45	23 22 PP
PRETORIA	147.30	312.0	19 40	4				
WINDHOEK	148.69	331.9	19 40A	2				
PIETERMZBURG	149.43	304.8	19 30K	-9				
KIMBERLEY	151.42	314.1	19 43A	1				

SEPTEMBER 5 2.H 37.M 33.S EPICENTRE 80.43 -0.96 DEPTH= 0.KM

A= 0.16734 B=-0.00281 C= 0.98589 D=-0.0168 E=-0.9999

G= 0.9858 H=-0.0166 K=-0.1674 HT=-13.7

SE= 3.09

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
KHEYS	9.36	59.8	3	19	60							
TROMSOE	11.88	144.6	2	51	-3							
KIRUNA	13.77	144.4	3	21	2	6	1	7			3	57
SODANKYLA	14.88	135.7	3	36	2	6	39	19				
APATITY	15.57	126.1	3	37	-6							
SKALSTUGAN	17.33	159.9	4	7A	2						4	20 PP
KAJAANI	18.18	137.5	4	12	-4							
RESOLUTE	18.67	304.1	4	16	-6						7	31
NURMI JARVI	21.34	144.0	4	50	-1							
UPPSALA	21.39	153.8	4	49A	-3	8	50	5				
HELSINKI	21.71	143.8	4	54	-1							
PULKOVO	22.67	157.0	5	4K	0	9	11	2				
GOTEBORG	23.17	162.2	5	9	0							
ABERDEEN	23.37	181.6	5	12	1	9	25	4			8	7
COPENHAGEN	25.22	162.0	5	27	-2	10	0	7				
MOSCOW	27.50	130.2	5	50	0							
HALLE	29.36	163.4	6	8	1							
COLLMBERG	29.62	162.1	6	8	-1						7	11 PP
SVERDLOVSK	29.85	103.7	6	11	0						8	7
JENA	29.92	164.0	6	10	-2							
PRUHONICE	31.02	160.4	6	21	-1						7	0
RACIBORZ	31.14	155.9	6	21	-2						6	31 PP

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1961					PAGE 861				
KRAKOW	31.30	153.7	6 24	0					6 30 PP
PARIS	31.77	175.7	6 28	0					
FOLINIÈRE	31.79	179.4	6 34	6					
KASPERSKE H.	31.81	161.8	6 27	-2					
LWOW	31.86	148.8	6 29	0					
STUTT GART	31.98	167.2	6 29	-1					11 48
STRASBOURG	32.12	169.1							16 30
GARCHY	33.31	175.0	6 40	-2					9 29
COLLEGE	33.73	335.1	6 46	1					7 11
CLERMONT-FD.	34.82	175.0	6 58	3					8 18
LJUBLJANA	34.93	161.1	6 55	-1					
YAKUTSK	35.12	38.4	6 58	1	12 32	2			
TRIESTE	35.29	162.0	7 3	4					
BUCHAREST	37.40	147.5							15 37
BAGNERES	37.49	178.7	7 23	6					
SIMFEROPOL	37.68	138.1							9 30
ISTANBUL KA.	40.99	144.8	7 46	0					9 20
MAKHACH-KALA	41.32	123.7	7 43	-6	13 56	-8			
IRKUTSK	41.35	63.8	7 50	1					
TIFLIS	42.18	127.0	7 58	2					
BREBEUF	42.61	262.6	7 59	-1					
ATHENS	43.60	151.4	8 7	-1					
FRUNSE	45.70	95.4	8 27A	2					
ULAN-BATOR	45.97	62.9	8 30	3					
TASHKENT	46.28	101.2	8 31	2	15 25	9			
PALISADES	47.03	261.4	8 14	-21	15 30	3			19 2 SS
ANDI JAN	47.35	98.3	8 40	2					
BUTTE	48.38	299.9	8 45	-1					
RAPID CITY	48.86	290.7	8 42	-7					
KSARA	48.88	138.5	8 47	-3					
STALINABAD	48.88	102.6	8 27	-23					
BLOOMINGTON	50.91	273.4	9 4	-1					
ST. LOUIS 1	52.07	276.9	9 19	5					
LAWRENCE	52.57	281.8	9 16	-2					
CHAPEL HILL	52.85	265.1	9 21	1					
FLAMING GRGE	52.89	295.7	9 18	-2					
ROLLA	53.06	278.3	9 18K	-3	16 31	-20			
SHASTA	54.97	307.6	9 50	15					
SHIRAZ	55.11	121.5	9 37	1					
FAYETTEVILLE	55.21	280.0	9 34A	-3					
EUREKA	55.28	301.4	9 37	-1					11 58 PP
RENO	55.76	305.0	9 55	14					
QUETTA	56.80	106.5	9 50	1					
GLEN CANYON	57.10	296.8	9 49	-2					
WICHITA MTS.	57.27	283.9	9 51	-1	17 46	-1			21 36 SS
LICK	58.17	306.2	10 8A	10					
FRESNO	58.48	304.4	10 10	10					
BOULDER CITY	58.55	299.6	10 2	1					
PASADENA	60.83	302.4	10 16	-1					
TRINIDAD	74.80	242.4	11 47	3					
MEDAN	88.10	79.9							14 20
MAWSON	151.92	133.0	20 2	12					

SEPTEMBER 5 6.H 13.M 0.S EPICENTRE 38.51 73.17 DEPTH= 104.KM

A= 0.22719 B= 0.75095 C= 0.62005 D= 0.9572 E=-0.2896
G= 0.1795 H= 0.5935 K=-0.7846 HT= -1.1

DEPTH OF FOCUS= 0.011R

SE= 2.09

	DELTA DFG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
KHOROG	1.65	232.1	0	32	3	0	56	6				
DZERGETAL	1.67	295.8	0	31	2	0	54	3				
FERGANA	2.16	330.5	0	36	1	1	2	1				
GARM	2.30	283.3	0	38	1	1	7	2				
ANDI JAN	2.32	344.9	0	39	2	1	7	2				
OBI-GARM	2.72	275.1	0	42	-1							
NAMANGAN	2.73	335.4	0	44	1	1	17	2				
DUZHANBE	3.45	272.4	0	53	0	1	33	0				
TASHKENT	4.10	314.4	1	1	-1	1	46	-3				
FRUNSE	4.46	13.9	1	7	1	1	57	-1				
RYBACHE	4.56	29.3	1	8	0						1	45
TCHIMKENT	4.66	325.4	1	8	-1						1	44
WARSAK DAM	4.68	196.7	1	9	-1							

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1961									PAGE 862		
SAMARKAND	4.95	285.5	1 12	-1							
FABRICHNAYA	5.24	27.1	1 17	0							
ALMATA	5.55	29.9	1 22	1	2 27	3			2 4		
PRZHEVALSK	5.63	43.5	1 23	1					1 48		
KURMENTY	5.93	39.2	1 26	0							
LAHORE	7.01	171.8	1 39	-2							
DEHRA DUN	9.11	152.3	2 10	0	3 54	3			2 18	PP	
QUETTA	9.77	213.6	2 16A	-3	4 5	-2			2 50	*SP	
NEW DELHI	10.46	160.1	2 17K	-11	4 0	-23			2 24	PP	
ASHKABAD	11.67	271.9	2 40	-4	4 46	-7					
SEMI PALATNSK	12.91	20.7	2 58	-2	5 15	-7					
KIZYL-ARVAT	13.19	278.3	3 0	-4	5 28	-1			3 41	*SP	
SEHORE	15.65	166.5	3 31	-4	6 11	-15			3 42	PP	
CHATRA	16.55	130.6	3 40K	-7	6 33	-13			3 52	PP	
LHASA	17.23	115.6	3 53K	-2	6 59	-2					
TEHERAN	17.58	267.7	4 2	3	7 17	8					
SHIRAZ	19.22	248.8	4 18	0	7 52	7					
BOMBAY	19.54	181.0	4 25	4	7 57	6			8 28	SS	
POONA	19.91	178.1	4 25	0	8 2	3			4 52	PPP	
MAKHACH-KALA	19.92	291.1	4 24	-1					8 47	PCP	
SVERDLOVSK	20.12	339.7	4 26	-1							
SHILLONG	20.39	123.8	4 28	-2	8 5	-3					
HOWRAH	20.53	136.4	4 34	2	8 11	1					
CALCUTTA	20.57	136.4	4 33	1	8 11	0					
GORI S	20.86	281.2	4 33K	-2				4 58	5 8	*SP	
TOCKLAI	21.59	116.5	4 35K	-7	8 15	-15			4 50	PP	
TIFLIS	21.89	287.4	4 47K	2					8 44		
EREVAN	22.20	283.4	4 50	2					8 48	PCP	
VISHAKHPTNM	22.53	154.0	4 54K	3	8 53	7			5 19	PP	
CHITTAGONG	22.68	129.8	4 55	2	8 55	6			9 38		
LANCHOW	24.47	86.2	5 29	19	9 56	36					
IRKUTSK	25.61	47.3	5 21	0	9 43	4		5 47			
ULAN-BATOR	26.14	58.0	5 26	0	9 52	4					
MADRAS	26.16	164.3	5 31	5	10 5	17			6 14	PP	
KYAKHTA	26.33	52.4	5 27	-1				5 56			
CHENGTU	26.48	97.8	5 29	0	9 56	3			5 58		
KABANSK	26.90	48.9	5 33	0	10 5	5		5 57			
KUNMING	28.32	109.4	5 45	-1	10 22	-1			10 52		
KODAIKANAL	28.42	171.1							11 13		
SIAN	28.98	87.3	5 51	-1	10 45	12			7 8		
MOSCOW	29.25	317.7	5 53	-1				6 24	6 41	PP	
SIMFEROPOL	29.63	295.2	5 57K	0				6 28	10 46		
KSARA	30.33	272.7	6 2	-1	10 52	-3			7 8	PP	
JERUSALEM	31.58	269.4	6 16	2	11 16	2					
PORT BLAIR	31.91	141.7	6 19	2							
PEKING	33.09	73.6	6 28A	0	11 41	3			6 54		
ISTANBUL KA.	33.71	288.6	6 32	-1							
ISTANBUL UN.	33.78	288.5	6 34A	1					7 7		
PULKOVO	34.32	322.4	6 37	-1	11 55	-2			7 54	PP	
HELWAN	35.42	268.8	6 48	1	12 15	1					
LWOW	36.40	304.4	6 56	0	12 27	-2		7 27	8 16	PP	
APATITY	36.47	335.6	6 55	-1	12 28	-2					
KAJAANI	36.98	328.6	6 59	-2							
HELSINKI	37.02	321.8	7 1	0							
NURMI JARVI	37.25	322.2	7 2	-1	12 44	2			8 24	PP	
CANTON	37.46	102.4	7 3	-2	12 42	-3					
NANKING	37.48	85.7	7 5	0	12 47	2					
SOPIA	37.63	292.7	7 7	1							
WARSAW	38.28	308.4	7 11	0	13 1	4			8 38	PP	
ATHENS	38.46	285.1	7 14K	1					7 44		
HONG KONG	38.53	102.7	7 15	2	13 1	0					
TIMI SOARA	38.62	297.9	7 12	-2					16 30		
SODANKYLA	38.69	333.3	7 14	-1							
SKALNATE PL.	38.89	303.5	7 18	2							
KRAKOW	39.04	304.9	7 18	0	13 5	-4			8 47		
CHANGCHUN	39.07	65.0	7 18A	0	13 10	1			7 48		
CHORZOW	39.63	305.4	7 23	0					9 23	PPP	
ZO-SE	39.74	85.7	7 24A	0	13 22	3			7 52		
RACIBORZ	40.15	305.1	7 54	27					9 3	PP	
HURBANOVO	40.39	301.7							9 55	PPP	
UPPSALA	40.59	320.2	7 30K	0	13 37	5			9 3	PCP	
KIRUNA	41.07	332.6	7 34	0	13 41	2			9 10	PCP	
BRATISLAVA	41.08	302.3	7 34	0					9 12	PP	
YAKUTSK	41.35	36.6	7 36	-1	13 40	-3					
VIENNA-H.	41.55	302.5	8 44	66	13 53	7					
MEDAN	41.83	139.9	7 57	16							
PRUHONICE	42.50	305.3	7 48	2					9 31	PP	
KHEYS	42.62	356.4			14 5	3			17 0	SS	

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1961

PAGE 863

LJUBLJANA	43.18	299.6	7 52K	0				9 32 PP
KASPERSKE H.	43.25	304.2	7 53K	1				
COPENHAGEN	43.25	313.9	7 52K	0	14 12	1	8 23	9 40 PP
TIKSI	43.26	22.5	7 56	4	14 11	0		17 24 SS
COLLMBERG	43.31	307.4	7 53K	0	14 29	17		10 25 PP
GOTEBORG	43.44	316.8	7 52K	-2				
SKALSTUGAN	43.51	325.4	7 54K	0				9 35 PP
TRIESTE	43.79	299.2	7 56	-1	14 23	4	8 28	9 41 PP
HALLE	43.94	307.9	7 58	0	14 27	6		
JENA	44.25	307.1	8 0	0	14 30	5		9 25 PP
MESSINA	44.53	288.4	8 2	-1	14 30	1	8 8	8 44 PP
PADOVA	45.13	299.3	8 8	1	14 46	8		9 43 PP
ROME	45.63	294.4	8 8	-3	14 48	3		10 2 PP
FLORENCE X.	45.97	297.3	8 8	-6	14 55	5		
STUTTGART	46.10	304.5	8 15	0	14 57	5		10 5 PP
TUBINGEN	46.29	304.2	8 16	0				
HEIDELBERG	46.33	305.4	8 17	0				
EBINGEN	46.43	303.7	8 18	0				
MUNSTER	46.52	309.1	8 19	1				
WITTEVEEN	46.95	310.4	8 22	0				
BENSBERG	46.99	307.8	8 22	0				10 4 PP
STRASBOURG	47.12	304.5	8 23	0	15 11	5		10 15 PP
BASLE	47.49	303.2					8 32	
DE BILT	47.98	309.7	8 32	2	15 20	2		10 23 PP
ROSELEND	47.99	300.5	8 34	4				
NEUCHATEL	48.04	302.6					8 30	
MANILA	48.32	105.9						11 46 PP
BESANCON	48.61	303.2	8 34	-1				
MONACO	48.64	298.3	8 35	0				9 5
OKHA	48.74	48.1			15 32	3	9 2	
ISOLA	48.76	299.0	8 36	0				9 7
ABUYAMA	49.33	73.9	8 39A	-1				
Y.-SAKHLINSK	50.23	56.5	8 47	0	15 47	-3		
PARIS	50.44	306.0	8 49	0				9 18 PP
GARCHY	50.51	303.9	8 48	-1				9 18 PP
MATUSIRO	50.64	70.8	8 48A	-2	15 46	-9		9 28
CLERMONT-FD.	50.93	302.1	8 52	0				
ABERDEEN	51.05	317.4			16 3	2		20 15
DURHAM	51.32	314.3	8 54K	-1	16 4	-1	9 25	12 39
KEW	51.45	309.9	8 56	0	16 9	3		9 27
MAGADAN	51.74	39.3	9 0	2	16 10	-1		
TUKUBASAN	52.17	70.4	8 58A	-4				
FOLINIERE	52.33	306.7	9 2	-1				
BAGNERES	53.86	299.8	9 16	2				
PETROPAVLOVK	57.90	45.3	9 48	5				
TOLEDO	58.02	297.8	9 45	1				10 16
ALMERIA	58.24	293.9	9 44K	-1	17 44	7		10 36 PCP
GRANADA	58.90	294.8	9 50K	0	17 49	3		13 35 PPP
BANGUI	59.95	249.8	9 57	0				11 55 PP
SERRA PILAR	60.58	300.9	10 5A	3				12 29 PP
COIMBRA	60.89	299.9	10 3K	-1				
LISBON	62.08	298.7	10 46A	34				
BROKEN HILL	67.26	227.6	10 59	14				
BULAWAYO	71.76	224.0	11 11	-1				
COLLEGE	72.07	17.1	11 13	-1				12 23
DARWIN	73.86	120.8	11 27	2				13 52
KIMBERLEY	80.75	221.7	12 20	17				12 40
PORT MORESBY	83.51	107.3	12 19	2	22 31	2		23 21 PS
SHAWINIGAN	89.99	337.3	12 49A	0				
BANFF	90.37	5.5	12 50	0				
PENTICTON	91.82	8.3	12 58	1				
HUNGRY HORSE	93.29	4.8	13 4	0				
PALISADES	95.34	335.6	13 59	46				17 3 PP
FLAMING GRGE	100.91	2.0	13 44	6				
EUREKA	101.94	7.2	13 44	1				17 52 PP
GLEN CANYON	104.77	3.9	14 6	11				
WOODY	105.33	10.1	18 19	777				
WICHITA MTS.	106.74	352.9	14 12	777	24 32	-1		27 30 PS
SCOTT BASE	128.05	164.4	18 54	0				
LA PAZ	139.68	292.0	19 18	3				

SEPTEMBER 5 11.H 34.M 32.S EPICENTRE 59.82-150.83 DEPTH= 0.KM

A=-0.44117 B=-0.24623 C= 0.86298 D=-0.4874 E= 0.8732
G=-0.7536 H=-0.4206 K=-0.5052 HT= -8.9

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1961

PAGE 864

SE- 3.37

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
COLLEGE	5.26	14.2	1	23	2	2	38	14				
SITKA	8.60	102.1	2	4	-4							
VICTORIA	19.47	113.3	4	26A	-5							
SEATTLE	20.62	113.5	4	45	2	8	46	17				
PENTICTON	20.72	106.6	4	39A	-5							
BANFF	21.55	98.0	4	52A	-1							
CORVALLIS	22.51	120.4	5	3	1							
HUNGRY HORSE	24.11	101.9	5	18	0						9	5 PCP
RESOLUTE	24.88	31.6	5	27K	2	9	51	4				
ARCATA	25.22	126.8	5	43	15							
KLYUCHI	25.32	283.5	5	31	2						10	40
FERNDALE	25.40	127.4	6	0	30							
SHASTA	26.06	124.5	5	38	2							
BUTTE	26.44	104.3	5	40	0	10	12	-1				
UKIAH	27.05	127.6	5	48	3							
BOZEMAN	27.44	103.1	5	49	0	10	29	0				
RENO	28.12	122.3	5	56	1						7	24
PETROPVLOVK	28.14	278.7	5	54	-1	10	30	-10			6	42 PP
CONCORD	28.51	127.2	5	59	0							
BERKELEY	28.52	127.5	5	59K	0	10	48	2	6	16		
SAN FRANCISCO	28.53	127.9	5	58	-1							
MAGADAN	28.64	295.2	6	1	1	10	48	0				
LICK	29.22	127.2	6	6K	1				6	23	7	24
VINEYARD	29.84	127.5	6	11	0							
EUREKA	29.85	117.3	6	11	0	11	0	-7	6	25	7	10 PP
FRESNO	30.46	125.3	6	17	1							
SALT LAKE C.	30.72	110.7	6	19	1	11	21	0				
FLAMING GRGE	31.77	107.7	6	26	-2				6	38		
TIKSI	32.28	324.2	6	30	-2	11	39	-7			7	49 PPP
BOULDER CITY	33.25	119.6	6	43	2							
LARAMIE	33.34	103.2	6	41	0							
PASADENA	33.39	125.6	6	42K	0	12	4	1	7	1	8	6 PP
GLEN CANYON	33.89	114.7	6	47	1				6	59	11	27
YAKUTSK	36.43	308.7	7	7	-1	12	37	-13			8	33 PCP
TUCSON TELE.	38.14	118.0	7	23	1							
TUCSON	38.17	118.2	7	23	1						9	5 PP
KIPAPA	38.70	190.7	7	29	2						7	53
UGLEGORSK	38.79	284.8	7	28	0	13	26	0			9	29 PP
HONOLULU	38.83	190.8	7	30	2	13	30	4				
KHEYS	38.86	352.7	7	28	0	13	23	-4			9	16 PPP
Y. -SAKHLINSK	39.87	281.9	7	37	0	13	37	-5			9	14 PP
LAWRENCE	40.26	95.7	7	38	-2							
HAWAII V.OB.	40.47	186.5	7	43	1	13	46	-5				
LUBBOCK	41.25	107.2	7	48	0							
WICHITA MTS.	41.92	102.9	7	53	0	13	59	-14			9	37 PP
ROLLA	42.77	93.7	7	58A	-2	14	14	-11	8	10		
FAYETTEVILLE	43.02	97.4	8	0A	-2						9	48 PCP
ST. LOUIS 1	43.04	91.5	8	0	-3	14	20	-9				
CHIHUAHUA	43.38	115.7	8	11	6	14	25	-9			9	51 PP
BLOOMINGTON	44.51	87.8	8	13A	-2	14	42	-8	8	25		
OTTAWA	45.26	73.5	8	18A	-3							
CLEVELAND	45.28	81.6	8	9A	-12							
SHAWNI GAN	45.84	70.3	8	23A	-2							
BREBEUF	46.20	71.9	8	26	-2							
PENNSYLVANIA	47.62	79.3	8	38	-1	15	28	-7	8	56	10	28 PP
TUKUBASAN	49.18	273.6	8	50A	-1	15	52	-5	9	0	11	48 PPP
PALISADES	49.41	76.1	8	51	-2	15	55	-5	9	8	11	5 PP
WASHINGTON	49.46	80.3	8	53	-1	15	57	-4			10	57 PP
FORDHAM	49.55	76.2	8	52	-2	15	56	-6				
MATUSIRO	49.88	275.5	8	56A	-1	16	4	-3			10	58 PP
REYKJAVIK	50.49	26.3	9	14	13							
CHANGCHUN	50.60	291.4	9	1A	-1	16	9	-8	9	15		
TROMSOE	50.63	4.6	9	1	-1							
COLUMBIA	51.30	87.5	9	6	-2	16	18	-8				
HALIFAX	51.57	65.6	9	8	-2							
SIDA	51.63	24.6	9	22	12							
ABUYAMA	52.52	276.3	9	16A	-1							
APATITY	52.89	357.9	9	17	-3	16	42	-6				
IRKUTSK	53.04	312.0	9	20	-1	16	45	-5	9	32		
SODANKYLA	53.10	1.2	9	19	-2	16	44	-7			17	14
TACUBAYA	54.48	114.6	9	35	4	17	5	-5			12	34
ULAN-BATOR	55.50	307.1	9	38	-1	17	23	0				
VERA CRUZ	56.08	111.6	9	48	5	17	36	5			12	4 PP
SKAL STUGAN	56.25	9.0	9	42K	-2						10	24
KAJAANI	56.41	0.8	9	43	-2						19	50 SCS

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1961

PAGE 865

OAXACA	57.67	113.5				17 52	0		
MERIDA	57.71	104.3	9 54	0					
PEKING	57.82	295.0	9 54A	-1	17 48	-6	10 8	19 40	SCS
BERGEN	58.69	13.6	9 58	-3					
NURMI JARVI	59.95	2.6	10 7	-3	18 16	-6		18 42	PS
HELSINKI	60.30	2.4	10 11	-1					
UPPSALA	60.33	6.7	10 10K	-3	18 19	-7		20 0	SCS
PULKOVO	60.74	359.3	10 13	-2	18 27	-5	10 26	14 4	PPP
ABERDEEN	60.76	18.9	10 31	15	18 38	6		10 46	PCP
SVERDLOVSK	61.05	340.9	10 16	-1	18 31	-5	10 28	18 51	PS
GOTEBORG	62.04	10.3	10 25	1				39 44	PKPPKP
SEMI PALATNSK	62.61	325.9	10 26	-2	18 50	-5			
ZO-SE	62.69	285.2	10 28A	-1	18 52	-4	10 42	19 22	*SS
NANKING	63.07	287.8	10 30A	-1	18 58	-3	10 44	12 53	PP
DURHAM	63.15	19.4	10 30	-1	19 3	1		13 9	PP
COPENHAGEN	64.08	10.4	10 48	10	19 12	-2		13 7	PP
MOSCOW	64.60	354.7	10 40	-1	19 17	-3	10 53	13 5	PP
GUAM	65.68	254.4	10 46	-2					
SIAN	65.86	296.7	10 49A	0	19 33	-3			
WITTEVEEN	66.26	14.7	10 54	2					
KEW	66.53	19.6	10 55	2	19 43	-1		13 29	PP
LANCHOW	66.59	301.6	10 52A	-2	19 38	-7			
DE BILT	66.77	15.8	11 10	15	19 58	11		12 34	
MUNSTER	67.21	14.3	10 58	0					
WARSAW	68.11	5.4	11 3	0	19 56	-7		13 26	PP
BENSBERG	68.15	14.8	11 3	-1	19 54	-9		13 36	PP
HALLE	68.16	11.5	11 3	-1	20 0	-3			
JERSEY	68.42	21.5	11 15	10	20 27	20			
COLLMBERG	68.46	10.8	11 4K	-2				13 44	PP
JENA	68.69	11.8	11 5	-2	20 4	-6	11 17	13 52	PP
FOLINIERE	69.11	20.5	11 8	-2					
PARIS	69.57	18.5	11 16	4				14 2	PP
CHEB	69.61	11.4	11 24	11				13 39	
PRAGUE	69.81	10.1	11 25	11	20 38	15			
HEIDELBERG	69.87	14.1	11 13	-1				11 26	PCP
PRUHONICE	69.91	10.0	11 13	-2	20 46	22		14 3	PP
CHORZOW	69.94	6.9	11 14	-1				11 34	PCP
ALMATA	70.04	324.9	11 16	1	20 23	-3		15 24	PPP
RACIBORZ	70.10	7.5	11 15	-1	20 23	-3	11 28	13 51	PP
KARLSRUHE	70.22	14.4	11 21	5	20 49	21			
KRAKOW	70.23	6.3	11 16	0	20 24	-4	11 28	11 41	PCP
STRASBOURG	70.56	14.9	11 18	0	20 47	15		14 6	PP
STUTTGART	70.56	13.8	11 18	0	20 29	-3		14 5	PP
LWOW	70.64	3.5	11 19	0	20 30	-3		11 31	PCP
KASPERSKE H.	70.67	10.8	11 19A	0				14 14	PP
TUBINGEN	70.77	14.0	11 19	-1				11 32	PCP
CHENGTU	71.09	298.5	11 21A	-1	20 33	-5			
EBINGEN	71.10	14.1	11 22	0				11 34	PCP
FRUNSE	71.11	326.3	11 21	-1	20 35	-3		11 41	PCP
SKALNATE PL.	71.12	6.2	11 27A	5				14 16	PP
GARCHY	71.15	18.5	11 17	-5				14 13	PP
ANGRA DO HO.	71.47	43.5	11 34A	10			11 45	11 53	PCP
BASLE	71.56	15.2	11 25A	0	20 39	-4			
RAVENSBURG	71.58	13.8	11 24	-1				11 36	PCP
BESANCON	71.62	16.4	11 25	0					
SAN JUAN	71.66	85.0	11 22	-3			11 34		
VIENNA-H.	71.78	9.0	11 14	-12	21 5	19			
BRATISLAVA	71.92	8.5	11 27A	0	21 0	12		14 25	PP
NEUCHATEL	72.00	15.8	11 38	11				21 11	
HURBANOVO	72.30	7.7			21 10	18		11 44	PCP
CHUR	72.48	14.0	11 31	1			11 43		
CLERMONT-FD.	72.63	18.8	11 43A	12	21 14	18			
BUDAPEST	72.74	7.2	11 35	4	20 50	-7			
CANTON	73.19	286.9	11 34A	0	20 57	-5		21 29	*SS
HONG KONG	73.45	285.8	11 35A	-1	21 1	-4			
GALERAZAMBA	73.49	97.0	11 46	10	21 7	2			
ROSELEND	73.57	15.6	11 33	-3					
LJUBLJANA	73.81	10.6	11 37	-1			11 55	14 29	PP
TASHKENT	73.94	329.7	11 38	-1	21 5	-5		14 31	PP
PAVIA	74.08	14.6	11 43	4	20 48	-24		17 8	
TRIESTE	74.13	11.2	11 41	1	21 7	-6	11 57	14 36	PP
ZAGREB	74.17	9.5	11 39	-1					
PADOVA	74.17	12.6	11 52	12	21 28	15		14 43	PP
ST. KITTS	74.24	82.7	11 38	-2					
TIMISOARA	74.59	5.8	11 57	15	21 36	18			
SERRA PILAR	74.71	28.7	11 43A	0	21 19	0	11 55	14 33	PP
BAGNERES	74.73	21.6	11 43	0					
ISOLA	74.78	16.3	11 44	1					

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1961

PAGE 866

MONACO	75.27	16.1	11 47	1	21 30	5		
AFIAMALU	75.40	201.0	11 46	-1				
BELGRADE	75.47	6.4	11 49K	2	21 23	-4	21 44	SKS
SIMFEROPOL	75.51	356.4	11 46A	-2	21 23	-5	14 50	PP
COIMBRA	75.63	28.8	11 49	1	21 26	-3	12 1	PCP
FLORENCE X.	75.71	13.3	11 48	-1	22 7	37		
BUCHAREST	76.09	2.3	11 50A	-1	21 30	-4	12 2	PCP
KUNMING	76.42	296.6	12 0	7	21 33	-5	21 59	*SS
MANILA	76.50	275.9	11 50	-3				
LISBON	76.85	29.9	11 55A	0	21 31	-12	12 7	PCP
TOLEDO	76.95	25.6	11 56	0	21 42	-2	14 56	PP
TORTOSA	76.97	21.9	12 9	13	21 58	14		
LHASA	77.45	308.1	12 0A	2	21 47	-2	14 51	PP
ROME	77.71	12.7	12 0A	0	21 51	-1	12 13	15 9
SOFIA	77.73	4.4	12 2	2	21 47	-5		
RABAUL	77.78	238.8	12 0	0				
TITOGRAD	77.78	7.5	12 13	13	21 49	-4	22 28	PS
CARACAS	77.94	89.9	11 59K	-2	22 8	14		
TIFLIS	78.00	348.1	12 2	1	21 52	-3	22 7	SKS
CHINCHINA	78.30	100.4	12 2	-1	21 50	-8	15 11	PP
TOCKLAI	78.48	303.8	12 4	0				
ST. VINCENT	78.51	83.7	12 2	-2				
FUQUENE	78.82	98.4	12 3	-3			15 20	PP
KIZYL-ARVAT	78.83	338.8	12 7	1	22 3	-1	12 20	PCP
ALICANTE	79.16	23.3	12 18	10	22 26	19	15 14	PP
HONIARA	79.33	229.5	12 9	0				
BOGOTA	79.38	99.2	12 9	0	22 4	-6	27 9	SS
ISTANBUL KA.	79.47	0.1	12 8	-1	22 8	-3	15 17	PP
ISTANBUL UN.	79.50	0.1	12 9K	-1	22 8	-3		
GRANADA	79.63	26.1	12 17K	7	22 38	26	15 20	PP
ASHKABAD	79.64	336.9			22 13	1	15 3	PP
GORIS	80.03	346.6	12 12	0	22 12	-4	12 28	PCP
WARSAK DAM	80.19	325.4	12 11	-2				
ALMERIA	80.20	25.3	12 14	1	22 33	15	15 29	PP
TRINIDAD	80.60	85.1	12 13	-3				
SHILLONG	80.73	305.6	12 15A	-1				
CHATRA	81.48	310.0	12 20A	0	22 28	-3	15 25	PP
DEHRA DUN	81.59	318.8	12 30	9	22 27	-6	15 27	PP
LAHORE	81.65	322.3	12 20	-1				
MESSINA	81.69	10.8	12 31	10	22 32	-2	15 39	PP
ATHENS	82.46	4.3	12 25	0				
TEHERAN	83.03	341.9	12 28	0	22 48	1		
NEW DELHI	83.48	318.8	12 25A	-5	22 39	-13	15 33	PP
PORT MORESBY	84.61	241.1	12 37	1	22 59	-4	16 5	PP
QUETTA	85.07	327.8	12 38A	-1	22 59	-9	12 51	15 55
KSARA	86.54	354.4	12 45	-1	23 17	-5	12 58	16 11
JERUSALEM	88.60	354.8	12 56K	0				16 24
SHIRAZ	88.80	339.8	12 56A	-1	23 14	-29	13 16	24 27
HELWAN	90.63	358.1	13 4	-1	23 49	-11		23 35
VISHAKHAPTNM	91.21	309.4						
PORT BLAIR	92.69	298.6	13 27	12				
POONA	93.91	318.0	13 20	0				
BOMBAY	93.91	319.1	17 20	240				
CHARTERS TS.	94.50	237.1	13 23	0	23 56	-38		
MEDAN	97.06	289.6					25 29	
BRISBANE	98.41	228.5	13 35	-6	24 42	23		
LA PAZ	100.49	104.6	14 8	18			24 48	SKKS
LEMBANG	101.68	276.6	18 5A	249				
RIVERVIEW	104.80	226.9	14 15	6	25 15	26	26 10	
CANBERRA	106.93	227.9	18 58	777				
SANTIAGO	113.65	115.9					16 25	
BANGUI	115.45	11.7	18 56	12			19 11	SPKP
CAPE HALLETT	134.55	195.6	19 14	-6			22 45	PKS
BROKEN HILL	134.70	0.9	19 6	-14				
SCOTT BASE	139.85	192.8	19 20	-10			22 30	PP
ARGENTINE I.	140.36	138.8	19 23	-8				
BULAWAYO	140.36	0.8	19 29	-2				
WINDHOEK	141.81	18.2	19 28	-5				
WILKES	145.11	224.2	19 38	-1			41 48	SS
PRETORIA	145.94	1.6	19 41	1				
KIMBERLEY	148.79	7.4	19 48	3				
SOUTH POLE	149.65	180.0	19 43	-3				
PIETERMBURG	149.79	357.9	19 52	5				
GRAHAMSTOWN	153.43	4.9	19 27	-25				
MAWSON	163.37	228.0	20 2	-2	20 16		24 46	PP

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1961

PAGE 867

SEPTEMBER 6 8.H 14.M 14.S EPICENTRE 2.97 126.05 DEPTH= 0.KM

A=-0.58765 B= 0.80748 C= 0.05145 D= 0.8086 E= 0.5884
G=-0.0303 H= 0.0416 K=-0.9987 HT= 7.1

SE= 3.12

	DELTA DEG.	AZ. DEG.	P O-C			S O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
MANILA	12.62	337.4	3	23	19	5	54	28				
DARWIN	15.97	162.8	3	46	-2							
NHATRANG	19.04	299.8	4	27	1	8	20	24				
LEMBANG	20.81	242.1	4	49K	3	8	36	2				
GUAM	21.21	59.5	4	36	-14							
HONG KONG	22.41	330.0	5	3	1	8	53	-11				
CANTON	23.49	329.5	5	13A	1	9	18	-5				
PORT MORESBY	24.36	120.5	5	13	-8	9	34	-4				
MEDAN	27.33	272.0	5	46	-3	10	14	-14		9	44	
CHARTERS TS.	30.31	140.0	6	14	-1					12	49	
KUNMING	31.44	316.6	6	26	1							
CHENG TU	34.53	325.2	6	50	-2	12	11	-10				
SIAN	34.98	334.8	6	55A	-1	12	22	-6				
MATUSIRO	35.24	17.1	6	58A	0	12	26	-6		9	28 PCP	
MUNDARING	35.98	194.3	7	0	-5							
PEKING	37.96	347.6	7	21	0	12	53	-21				
LANCHOW	38.80	330.7	7	28A	0	13	27	0				
ADELAIDE	39.57	163.6	7	34K	-1	13	27	-11		9	39 PCP	
BRISBANE	39.69	141.2	7	36	0	13	32	-8				
SHILLONG	39.80	307.6	7	34K	-3							
CHANGCHUN	40.69	359.2				13	43	-12				
LHASA	42.48	312.3	7	59A	0							
CANBERRA	43.75	152.5	8	8A	-1					9	54 PP	
CHATRA	44.12	306.3	8	11K	-1					9	55	
MELBOURNE	44.22	158.4	8	12	-1							
FORT NELSON	49.57	159.5	8	54	-1							
NEW DELHI	52.95	303.9	9	11K	-10					10	21	
LAHORE	56.29	306.3	9	41	-4							
YAKUTSK	58.98	2.0	10	0	-4	18	0	-10				
MAGADAN	59.59	14.3	10	7	-1							
ANDI JAN	61.13	315.7	10	16	-3							
KARAPIRO	61.22	136.7	10	17	-2							
QUETTA	61.97	302.7	10	20	-4							
STALINABAD	62.93	312.2	10	26	-5							
TASHKENT	63.51	315.3	10	31	-3					23	56	
SAMARKAND	64.60	312.9	10	38	-4							
SHIRAZ	74.23	299.8	11	36A	-5							
HAWAII V.OB.	78.35	70.9	12	6	2							
CAPE HALLETT	80.21	167.5	12	12K	-2							
TIFLIS	81.49	311.6	12	19	-2							
MAWSON	82.80	200.2	12	23A	-5							
KHEYS	83.56	351.2	12	31A	0							
SCOTT BASE	83.68	172.0	12	29K	-3							
COLLEGE	85.68	25.3	12	41	-1					13	39	
MOSCOW	86.67	325.5	12	43	-4							
PULKOVO	90.35	329.8	13	1	-3							
SODANKYLA	90.90	337.6	13	5	-2							
KAJAANI	91.00	334.2	13	5	-2							
HELSINKI	92.94	330.6	13	13	-3							
SOUTH POLE	92.95	180.0	13	13	-3							
NURMI JARVI	93.03	330.9	13	14	-3							
TROMSOE	93.14	340.4	13	14	-3							
UPPSALA	96.59	331.2	13	30A	-3							
BYRD STATION	97.05	170.8	13	32	-3							
SKALSTUGAN	97.70	335.6	13	35	-3							
BULAWAYO	97.99	250.2	13	35	-4							
PRUHONICE	101.36	322.2	13	53K	-2							
COLLMBERG	101.85	323.8	13	54	-3							
KASPERSKE H.	102.23	321.6	13	55K	-4							
HUNGRY HORSE	107.10	37.2	18	27	777							
EUREKA	109.27	46.4	18	33	777					19	9 PP	
WICHITA MTS.	123.79	44.1	19	0	0					22	50 SKP	
FAYETTEVILLE	125.97	40.3	19	4A	0							
ROLLA	126.27	37.1	19	4K	-1							
SHAWINIGAN	127.97	16.4	19	8K	0							
OTTAWA	128.09	19.4	19	7	-2							
BLOOMINGTON	128.45	32.3	19	8K	-1							
PALISADES	132.59	20.5								22	45 PP	
SAN JUAN	155.64	29.0	19	56	0					20	24	
LA PAZ	160.63	134.9	20	3	1							

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1961

PAGE 868

SEPTEMBER 8 4.H 52.M 10.S EPICENTRE 51.70-131.07 DEPTH= 26.KM

A=-0.40891 B=-0.46925 C= 0.78268 D=-0.7539 E= 0.6570
G=-0.5142 H=-0.5901 K=-0.6224 HT= -6.0

SE= 2.02

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
VICTORIA	5.86	119.9	1	26	-2							
SITKA	5.91	336.8	1	28	-1							
SEATTLE	6.98	122.0	1	45	1							
PENTICTON	7.68	103.5	1	52	-1							
CORVALLIS	8.81	140.9	2	9	0							
BANFF	9.72	87.0	2	22	0							
HUNGRY HORSE	11.46	100.3	2	45	0							
FERNDALE	12.07	154.4				5	8	-1				
SHASTA	12.52	148.0	3	1	1							
MINERAL	13.10	146.3	3	8A	1							
BUTTE	13.42	107.8	3	13	1							
UKIAH	13.71	153.4	3	18	3							
RENO	14.46	142.8	3	26A	1							
BOZEMAN	14.51	106.7	3	27	1							
BERKELEY	15.15	152.4	3	34A	0	6	34	12				
COLLEGE	15.79	333.1	3	40	-3	6	52	15			4	11
LICK	15.83	151.4	3	44K	1							
EUREKA	16.11	133.4	3	46	-1	6	53	9			10	1
VINEYARD	16.45	151.5	3	51	0							
FRESNO	16.93	147.4	3	58A	1							
SALT LAKE C.	17.15	122.0	3	53	-7							
BOULDER CITY	19.52	137.3	4	28	0							
PASADENA	19.86	147.0	4	31A	-1							
RAPID CITY	20.09	101.3	4	34	-1							
GLEN CANYON	20.18	129.3	4	36	0							
LARAMIE	20.29	110.8	4	37	0							
TUCSON TELE.	24.40	134.6	5	19	1							
TUCSON	24.43	134.9	5	19	1	9	30	-3				
MANHATTEN	26.96	104.0	5	42	0							
RESOLUTE	27.36	20.0	5	49	4						14	38
WICHITA MTS.	28.80	113.4	5	58A	0	10	57	12			12	32 PCS
FAYETTEVILLE	30.43	106.3	6	12K	-1						16	21 SCS
ROLLA	30.63	101.2	6	13	-2	11	20	6				
C. GIRARDEAU	32.45	99.8	6	28	-3							
BLOOMINGTON	33.16	94.4	6	36	-1	11	56	2	6	43		
CLEVELAND	34.92	87.1	6	53K	1							
OTTAWA	36.41	77.5	7	5	0							
SHAWINIGAN	37.62	74.2	7	14	-1							
BREBEUF	37.63	76.1	7	21	6							
WASHINGTON	39.20	87.3	7	32	4						20	58
CHAPEL HILL	39.82	92.5	7	33	0						8	10
COLUMBIA	39.85	96.4	7	33	0							
PALISADES	39.91	82.3									16	20 SS
FORDHAM	40.02	82.5	7	37	2							
PETROPVLOVK	41.36	300.6	7	32	-14							
MAGADAN	42.37	312.3	7	52	-2							
KIRUNA	58.90	12.2	10	2	3							
SODANKYLA	60.08	9.8	10	6	-2							
SAN JUAN	60.29	97.9	10	8	-1							
SKALSTUGAN	61.54	17.7	10	15A	-2							
MATUSIRO	62.76	295.1	10	20	-6	18	56	5				
KAJAANI	63.38	10.3	10	27	-3							
CARACAS	65.88	104.1	10	44K	-2	19	30	0				
UPPSALA	65.97	16.7	10	46	0							
IRKUTSK	66.41	326.5	10	46A	-3							
NURMIJARVI	66.46	12.8	10	46	-4							
HELSINKI	66.83	12.8	10	50	-2							
FOLINIERE	71.40	32.0	11	23	3							
BENSBERG	71.78	26.3	11	24	2							
PARIS	72.32	30.2	11	27	1							
MOSCOW	72.53	6.7	11	23	-4							
HALLE	72.53	23.2	11	26	-1						12	21
COLLMBERG	72.97	22.7	11	28K	-1						12	50
GARCHY	73.85	30.6	11	35	0						12	10
STRASBOURG	74.10	27.0	11	36	0						12	14

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1961

PAGE 869

STUTTGART	74.34	26.0	11 39	2							
PRUHONICE	74.57	22.2	11 40	1						12 41	
KASPERSKE H.	75.13	23.2	11 43	1							
VIENNA-H.	76.61	21.7	11 54	4							
LWOW	76.67	16.3	11 51	0							
TOLEDO	77.79	38.9	11 57	0							
HUANCAYO	79.61	124.7	12 8	1							
SIMFEROPOL	82.89	10.5	12 25	1							
FRUNSE	83.25	341.3	12 25	-1							
ANDIJAN	85.69	342.4	12 38	0							
ISTANBUL UN.	86.02	15.0	12 5	-35	22 43	-28					
TIFLIS	86.90	3.1	12 44	0							
LA PAZ	87.09	121.2	12 45	0	23 30	9					
STALINABAD	88.45	344.6	12 51	0							
SHIRAZ	98.95	356.8	13 44	4							
BULAWAYO	144.72	34.4	19 33	-2							

SEPTEMBER 8 11.H 26.M 31.S EPICENTRE -56.44 -27.15 DEPTH= 103.KM

A= 0.49421 B=-0.25345 C=-0.83158 D=-0.4563 E=-0.8898
G=-0.7399 H= 0.3795 K=-0.5554 HT= -7.7

DEPTH OF FOCUS= 0.011R

SE= 3.11

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
G. G. VIDELA	19.17	229.5	4	19	1							
ARGENTINE I.	19.82	228.5	4	26	1						8 37	PCP
BUENOS AIRES	30.52	302.4	5	59	-7							
SOUTH POLE	33.74	180.0	6	35	2	12 45	57					
BYRD STATION	35.43	197.5	6	49	1						8 16	PP
SANTIAGO	37.54	289.2	7	13	7							
HERMANUS	38.31	74.9	7	13	1	12 55	-3				8 43	PP
MAWSON	39.83	143.2	7	25A	0	13 18	-3				8 57	PP
GRAHAMSTOWN	43.13	80.9	6	17K	-95							
ANTOFAGASTA	45.33	297.9	8	7	-2						9 49	
KIMBERLEY	45.68	75.1	8	10K	-2							
SCOTT BASE	45.69	184.1	8	4K	-8	14 49	2	8 43			10 0	PP
PIETERMZBURG	48.06	81.1	8	41	10						9 43	
PRETORIA	49.89	75.9										
LA PAZ	50.43	305.3	8	48	-1	15 52	-1					
CAPE HALLETT	50.97	186.7	8	54K	1	16 39	38				10 48	PP
AREQUIPA	52.02	301.7	9	0	-1							
WILKES	53.48	160.2	9	12	0	16 33	-2	9 40			11 9	PP
KERGUELEN I.	54.31	127.0	9	19	1	16 56	10					
BULAWAYO	54.67	72.2	9	19K	-1	16 50	-1					
LUANDA	56.96	49.8	9	36K	-1	17 22	1	9 59			11 56	PP
HUANCAYO	57.67	300.4	9	42	0	17 19	-11					
BROKEN HILL	59.33	68.4	9	52K	-1	17 54	2					
TANANARIVE	66.00	88.2	10	39K	1	19 23	8				13 0	PP
MACQUARIE I.	69.31	183.8	10	57	-1							
MBOUR	71.06	10.4	11	11	2	20 6	-9					
BANGUI	71.14	49.0	11	12	3	20 16	0					
BOGOTA	71.84	310.0	11	13K	0							
TRINIDAD	72.63	324.6	11	17	-1							
CHINCHINA	72.82	308.7	11	17A	-2	20 32	-3				13 57	PP
CARACAS	74.38	319.2	11	27A	-1	20 50	-3					
BARBADOS	74.39	327.1	11	32	4							
ST. VINCENT	74.95	325.5	11	31	0							
ROXBURGH	77.51	191.8	11	47A	1	21 35	8				14 43	PP
GALERAZAMBA	77.89	311.6	11	53	5	21 33	2					
BALBOA HTS.	78.11	306.9	11	47	-2	21 21	-12					
GEBBIES PASS	78.84	194.5	11	52	-1							
ST. KITTS	79.33	325.6	11	54A	-2							
KAIMATA	80.17	193.8	12	1	1							
FORT NELSON	80.89	175.9	12	2K	-2							
WELLINGTON	80.90	196.6	12	4K	0	22 4	1				15 14	PP
MOORLANDS	81.38	175.8	12	7K	0						15 18	PP
COBB RIVER	81.40	195.1	12	5	-2	22 3	-5					
SAN JUAN	81.41	322.8	12	4A	-3	22 4	-4				15 14	PP
CHATEAU	82.80	197.6	12	14A	0	22 27	5					
TUAI	82.91	198.9	12	13	-2							
KARAPIRO	84.04	197.9	12	20K	0						38 30	PKPPKP
SANTIAGO MA.	86.18	301.2	12	37	6						13 13	
ONERAHI	86.35	197.4	12	31	-1							

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1961		PAGE 870									
PERTH	86.51	149.2	12 34	2	23 3	5				15 55	PP
MUNDARING	86.60	149.5	12 33A	0						22 47	
SAN SALVADOR	86.70	300.7	12 29	-4						13 7	
ADELAIDE	88.16	168.4	12 41A	1	23 15	1				16 7	PP
CANBERRA	88.54	176.9	12 43A	1	23 22	5				16 15	PP
RIVERVIEW	90.08	178.6	12 49A	0	23 35	3	13 16			16 25	PP
OAXACA	93.26	296.1	13 13	9	23 40	-19				25 22	SP
ANGRA DO HO.	94.72	359.9	13 11A	0			13 37				
ALMERIA	95.26	19.7	13 15A	2	23 37	-1	13 42			17 19	PP
GRANADA	95.38	18.7	13 14K	0	23 38	-1				17 25	PP
LISBON	96.02	14.1	13 16A	-1	23 41	-1	13 42			17 17	PP
TACUBAYA	96.49	295.3	13 20K	1	23 44	-1				17 10	PP
BRISBANE	96.51	179.9	13 18	-1	23 45	0					
ALICANTE	97.10	20.8	13 26	4	23 42	-6				17 22	PP
COIMBRA	97.57	14.4	13 25A	1	23 48	-2	13 51			24 44	S
TOLEDO	97.93	17.7	13 26A	1	23 55	3	13 50			17 24	PP
SERRA PILAR	98.46	14.1	13 29K	1	24 8	13	14 0			17 32	PP
HELWAN	99.20	48.6	13 32	1						25 47	
GUADALAJARA	99.65	292.7	13 38	5	24 5	4				17 41	PP
TORTOSA	99.68	20.9	13 36	3	24 2	1					
NOUMEA	100.73	192.8	13 37K	-1	17 47	-379					
REGGIO CALA.	100.92	33.1	13 45	6	24 10	3				17 46	PP
MESSINA	100.98	33.0	13 29	-10	23 56	-11	14 8			17 48	PP
COLUMBIA	101.00	316.9	13 39A	0							
BAGNERES	101.78	20.1	13 39	-4						26 45	
CHAPEL HILL	101.98	319.2	13 44	1							
JERUSALEM	102.50	50.6	13 49	3	24 20	6					
SUVA	102.64	204.9	13 42	-4	24 37	22				27 12	PS
KOUMAC	102.70	191.0	13 46	-1						18 0	
ATHENS	103.44	39.1	13 56	6	24 19	0				18 5	PP
ROME	103.53	29.3	13 51A	1	24 19	0	14 15			18 7	PP
CHARTERS TS.	103.57	173.6	13 50	-1	24 18	-1					
TARANTO	103.59	33.3	13 57	6	24 22	3				17 57	PP
WASHINGTON	103.95	322.0	13 52A	0						18 10	PP
AFIAMALU	103.95	215.4	13 51	-1	24 29	8				17 58	PP
MONACO	103.96	25.1	13 54	2							
ISOLA	104.30	24.7	13 56	2						18 15	PP
KSARA	104.54	50.0	13 56	1	24 32	8				18 24	PP
FORDHAM	104.66	325.2	13 50	-5							
PALISADES	104.81	325.2	13 52	-4	24 21	-4	14 21			18 43	PP
FLORENCE X.	104.95	27.8	14 4	7	24 36	10					
CLERMONT-FD.	104.96	21.4	13 49	-8							
CHIAVARI	104.97	26.2	14 13K	16	24 13	-13				18 13	PP
PORT VILA	104.98	195.3	13 59K	2						18 19	
PRATO	105.01	27.6	14 16	777	25 14	48					
HALI FAX	105.25	333.9	13 59	777							
BOLOGNA	105.65	27.5								17 59	PP
ROSELEND	105.67	24.6	14 11	777						18 32	PP
PAVIA	105.75	25.8	18 24	777						36 52	SSS
PENNSYLVANIA	105.92	322.3	18 3	777	24 27	-3				18 21	PP
TITograd	105.99	33.9	14 8	777	24 31	1				18 27	PP
GARCHY	106.40	20.9	14 5	777	25 22	50				18 27	PP
KODAIKANAL	106.54	96.5								19 27	
PADOVA	106.63	27.6			24 35	2				20 44	PPP
LEMBANG	106.87	132.6	17 8A	777						24 38	
NEUCHATEL	106.95	23.7								18 5	
DJAKARTA	107.13	131.5			24 34	-1				17 21	
FOLINIERE	107.17	18.1	14 12	777						18 20	PP
C. GIRARDEAU	107.26	312.3	14 5	777							
JERSEY	107.30	16.9	14 1	777							
CHUR	107.40	25.4								18 34	PP
SOPIA	107.54	36.6	14 12	777	25 28	51					
BASLE	107.59	23.9	14 11	777						25 35	
CHIHUAHUA	107.62	295.2	14 12	777						18 8	PP
BLOOMINGTON	107.66	315.4	14 6	777	24 34	-4					
ROCHESTER	107.73	323.9	17 29	777							
PARIS	107.75	20.1	14 10	777						18 40	PP
CLEVELAND	107.80	320.1	14 10K	777						18 31	PP
LJUBLJANA	107.93	29.1	14 17	777						18 41	PP
ISTANBUL UN.	108.05	41.4	14 9	777						18 33	PP
ISTANBUL KA.	108.10	41.4	14 12	777	24 31	-9	14 35			20 43	PPP
ZAGREB	108.12	30.2	14 35	777						18 41	PKS
FAYETTEVILLE	108.19	308.3	14 10	777	24 37	-3	14 33			18 40	PP
RAVENSBURG	108.29	25.2								18 39	
EBINGEN	108.52	24.6								18 43	
BELGRADE	108.52	33.7	17 52	777	24 41	0				18 42	PP
STRASBOURG	108.62	23.7	14 15	777	24 44	2				28 1	
ROLLA	108.74	310.9	14 11	777	24 39	-3					

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1961

PAGE 871

BREBEUF	108.79	327.4	14 13	777				
SHIRAZ	108.82	64.8	13 50	777			17 59	
TUBINGEN	108.87	24.5					18 41	
WICHITA MTS.	109.02	304.3	14 13	777	24 42	-1		28 0 PS
STUTTART	109.14	24.6	14 17	777	24 46	2	14 42	19 0 PP
KARLSRUHE	109.17	23.9	14 17	777	24 50	6		
OTTAWA	109.34	326.0	14 18	777				
SHAWINIGAN	109.49	328.4	14 21	777				
TIMISOARA	109.59	33.7	18 53	777	25 35	49		29 12
HEIDELBERG	109.61	24.0	14 20	777				18 46
KEW	109.80	17.5	14 19	777	24 46	-1		18 55 PP
BUCHAREST	109.99	37.7	14 22K	777	24 48	1	14 42	18 54 PP
MADRAS	110.31	97.2	18 11	-9				24 52
CAMPULUNG	110.38	36.5						19 1 PP
VIENNA-H.	110.45	29.4	14 32	-228	25 49	60		18 57 PP
BUDAPEST	110.49	31.5	18 39	19	25 46	57		19 45 PP
KASPERSKE H.	110.52	27.2	14 33	-227				19 17 PP
BRATISLAVA	110.58	29.9	18 4	-16				28 28 PS
HURBANOVO	110.61	30.8						19 7 PP
BENSBERG	110.74	22.4	17 57	-23	24 49	-1		18 57 PP
BOMBAY	111.03	87.4	18 46	25	24 52	0		19 12 PP
CHEB	111.10	26.1	18 15	-6	24 55	3		18 58 PP
POONA	111.30	88.5	18 29	7				28 28
DE BILT	111.41	20.8	14 53	-209				19 9 PP
FOCSANI	111.49	37.7						19 10 PP
PRUHONICE	111.55	27.5	18 20	-2	24 55	1		19 0 PP
PRAGUE	111.60	27.4	18 3	-19	24 55	1		19 3 PP
JENA	111.70	25.2	17 50	-32	24 51	-3		19 5 PP
MUNSTER	111.78	22.3	17 47	-35				
MANHATTEN	111.83	308.4	14 27	-236	24 51	-4		
BACAU	112.15	37.1			24 56	0		19 6 PP
HALLE	112.31	25.2	17 56	-27	24 56	-1		
COLLMBERG	112.38	26.0	18 28	4	24 48	-9		19 33 PP
SKALNATE PL.	112.38	31.5	14 33	-231	26 54	117		19 13 PP
WITTEVEEN	112.39	21.4						28 29 PS
RACIBORZ	112.61	29.8	14 34	-230			14 58	19 18 PP
DURHAM	112.79	15.7	18 20K	-4	25 0	1	18 49	19 20 PP
TUCSON	112.94	293.9	14 37K	-228	25 3	4	15 11	19 21 PP
TUCSON TELE.	112.96	294.0	14 38	-227				18 25 PKP
HYDERABAD	112.96	93.0						19 18
CHORZOW	113.02	30.2						17 57
KRAKOW	113.07	30.9	18 32	7	24 58	-2		19 12 PP
TEHERAN	113.19	60.2	14 35	-230	25 2	2		
SIMFEROPOL	113.32	42.7	18 23	-3	25 1	0		19 21 PP
EDINBURGH	113.68	14.5						26 12
GORIS	113.87	54.2	18 23	-4	25 3	0		19 21 PP
LWOW	114.08	33.6	14 41	-226	25 3	-1		19 22 PP
HONIARA	114.11	187.7	14 33	-234				18 28
PORT MORESBY	114.23	173.8	18 6	-21			18 28	19 21 PP
TIFLIS	114.99	51.8	14 45	-224	25 8	1		19 23 PP
ABERDEEN	115.04	14.7	14 56	-213	25 7	0		19 21 PP
WARSAW	115.33	30.5	18 46	17	25 7	-1		19 29 PP
PORT BLAIR	115.98	109.1						19 24
COPENHAGEN	116.29	23.7	18 36K	5	25 13	1	19 3	19 39 PP
QUETTA	116.77	75.3	14 54	-218	25 16	2		19 38 PP
GLEN CANYON	117.06	296.5	18 33	0	25 19	4		14 53 P
LARAMIE	117.58	303.6	18 33	-1				
BOULDER CITY	117.91	293.5	18 36A	2				28 58 PKKP
GOTEBORG	118.05	22.6	18 34	-1				20 14 PP
PASADENA	118.22	289.8	18 34	-1	25 21	2		19 51 PP
ASHKABAD	118.35	63.6	18 45	10				
RAPID CITY	118.68	307.1	18 33	-3				
BERGEN	119.29	17.8	18 44	7	25 23	0		19 56 PP
RABAUL	119.56	179.2	18 37	-1				
SIDA	120.09	4.7	18 40	1				
SALT LAKE C.	120.13	299.0	18 39A	0	25 2	-23		20 6 PP
REYKJAVIK	120.31	2.7	18 41K	2				20 24 PP
FRESNO	121.08	290.5	18 41	0				
NEW DELHI	121.12	84.4	18 23	-18				20 22
EUREKA	121.18	295.3	18 38	-3				20 9 PP
UPPSALA	121.25	24.6	18 39	-2	25 25	-4	15 34	20 9 PP
LAHORE	121.83	80.0	18 43	1			19 8	
VINEYARD	121.89	289.4	18 43A	1				
PARAISO	122.09	288.3	18 43	0				
WARSAK DAM	122.19	76.0	18 44	1				15 4 P
LICK	122.47	289.6	18 45A	2				20 28 PP
CALCUTTA	122.55	98.2	18 41	-2				20 16 PP
BRANNER	122.81	289.3	18 45	1				

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1961										PAGE 872	
DEHRA DUN	122.93	83.8	18 47	3						30 20	
CONCORD	123.17	289.8	18 46	1							
RENO	123.17	292.7	18 44A	-1							
BERKELEY	123.19	289.6	18 46	1	25 38	3				20 25	PP
SAN FRANCISCO	123.22	289.4	18 46	1							
HELSENKI	123.35	28.2	18 43	-2						22 9	SKP
BOZEMAN	123.47	303.3	18 46A	1							
SKALSTUGAN	123.49	19.9	18 44	-1			19 14			28 36	PKKP
MOSCOW	123.49	37.9	18 44	-1	25 35	-1				23 7	PPP
NURMIJARVI	123.56	27.8	18 44A	-1	25 33	-4	19 12			20 51	PP
CHITTAGONG	124.28	101.4			25 36	-4	19 31			21 31	*SPP
BUTTE	124.44	302.6	18 48A	1							
PULKOVO	124.48	31.2	18 47	0	25 37	-2				20 30	PP
NHATRANG	124.60	125.0	18 47	0						20 35	PP
UKIAH	124.63	289.9	18 49A	2							
MINERAL	124.70	292.1	18 49A	1						20 50	
CHATRA	125.29	94.0	18 50A	1						20 41	PP
SHASTA	125.36	291.8	18 49	0							
TASHKENT	126.43	68.5	18 51	0	25 47	2				20 53	PP
HAWAII V.OB.	126.77	247.9	18 52	0	26 3	17					
HUNGRY HORSE	126.82	303.7	18 35A	-17						20 49	PP
SHILLONG	126.89	99.1	18 51A	-1						29 31	
KAJAANI	127.33	26.9	18 48	-5						22 1	SKP
CORVALLIS	128.62	294.6	18 55	0							
KIRUNA	128.84	21.1	18 54A	-2			19 20			21 0	PP
TOCKLAI	129.41	100.8	18 46	-11							
BANFF	129.51	305.3	18 56A	-1							
HONOLULU	129.77	246.4	18 59K	2						31 29	SKKP
SODANKYLA	129.78	24.0	18 37	-20						21 29	PP
KIPAPA	129.83	246.6	18 59	2							
TROMSOE	130.09	19.3	18 57	-1							
PENTICTON	130.13	301.2	18 36	-22							
SEATTLE	130.27	298.0	19 1	3							
FRUNSE	130.29	70.8	18 58	0						21 17	PP
VICTORIA	131.41	298.2	18 44	-16							
ALMATA	131.82	71.9	19 3	2	26 5	5				22 25	SKP
KUNMING	132.37	109.7	19 3A	1			19 28			21 27	PP
SVERDLOVSK	133.07	48.8	19 5	1						21 33	PP
CANTON	135.96	122.6	19 11A	2			19 37			21 51	PP
GUAM	136.66	168.5	19 2A	-8						21 52	PP
CHENG TU	137.47	106.3	19 12K	0			19 35			21 58	PP
SEMIPALATNSK	138.18	66.3	19 13	0						22 9	PP
RESOLUTE	138.22	338.3	19 1	-12						22 2	
HENGCHUN	138.28	132.2								22 5	
TAWU	138.65	132.1	18 31	-43							
HWALIEN	140.39	131.9	19 34	17							
TAIPEI	141.29	131.0	19 26	7							
SITKA	142.28	301.9	19 16	-4							
SIAN	142.86	107.8	19 16A	-5			19 41			22 26	PP
KHEYS	144.36	16.3	19 21	-3						25 52	PPP
NANKING	146.09	121.5	19 28A	1			19 45			22 53	PP
ZO-SE	146.40	125.5	19 28A	0			19 52			22 53	PP
YAKUSIMA	149.65	139.5	19 33	0							
KAGOSIMA	150.68	138.6	19 43	9							
COLLEGE	150.80	311.2	19 29	-5	27 23	53				37 13	
TOMIE	150.93	134.9	19 34	-1						29 58	
PEKING	151.02	108.8	19 35A	0						23 29	PP
ULAN-BATOR	151.06	87.4	19 34	-1							
MIYAZAKI	151.31	139.7	19 42	7						30 2	
NAGASAKI	151.46	136.5	19 36A	1						42 46	
UNZENAKE	151.60	137.1	19 41	5							
KUMAMOTO	151.85	137.7	19 36	0							
ASOSAN	152.06	138.2	19 47	11							
SAGA	152.08	136.7	19 46	10							
HUKUOKA	152.41	136.5	19 38A	1						23 23	
OOITA	152.56	138.8	19 39	2						23 27	
TORISIMA	152.59	156.0	19 33	-4							
SIMIDU	152.63	141.5	19 29	-8						23 25	
UWAZIMA	152.88	140.3	19 48	11						42 50	
SIMONOSEKI	152.95	137.0	19 42	5							
MUROTO	153.47	143.1	19 40	2						23 42	
MATUYAMA	153.53	140.2	19 38	0						43 7	
KOTI	153.53	141.7	19 40	2						43 7	SS
HIROSIMA	153.88	139.0	19 36	-3						20 1	
SIOMISAKI	154.17	145.7	19 44	5						23 17	
TOKUSIMA	154.36	143.0	19 58	19							
TAKAMATU	154.40	141.9	19 55	16						34 6	
SUMOTO	154.71	143.4	19 41A	1						30 22	
OWASE	154.88	145.9	19 51	11							

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1961					PAGE 873				
OSAKA	155.20	144.2	19 42A	1					23 42
ABUYAMA	155.42	144.1	19 42A	1					
TOTTORI	155.53	140.9	19 40	-1					
KYOTO	155.60	144.2	19 36	-5					
KAMEYAMA	155.68	145.7	19 43	2					23 35
TOYOOKA	155.77	142.0	19 43	2					23 45
OMAESAKI	155.97	149.2	19 42	0					
HIKONE	156.00	144.9	19 41	-1					23 42
NAGOYA	156.13	146.4	19 43A	1					23 47
GIHU	156.29	145.8	19 47	5					
TSURUGA	156.29	144.2	19 59	17					
SHIZUOKA	156.37	149.3	19 46	4					23 48
OSIMA	156.45	151.3	19 44	2					
AJIRO	156.64	150.5	19 42	0					
MISIMA	156.67	150.2	19 42	0					
MERA	156.71	152.1	19 43A	0					
IIDA	156.72	147.7	19 47	4					
HUNATU	156.97	149.5	19 45	2					23 52
KOHU	157.07	148.9	19 46	3					
YOKOHAMA	157.15	151.3	19 45A	2					
TOKYO C.M.O.	157.41	151.3	19 42A	-1					
MATUMOTO	157.44	147.2	19 47	3					
HONGO	157.44	151.3	19 44	0					
TITIBU	157.51	149.7	19 45	1					
TOYAMA	157.62	145.3	19 44	0					23 55
OIWAKE	157.68	148.3	19 49	5					24 17
KUMAGAYA	157.75	150.1	19 45	1					23 56
MATUSIRO	157.78	147.4	19 44A	0					23 49 PP
NAGANO	157.90	147.3	19 46	2					24 7
MAEBASI	157.90	149.3	19 45A	1					23 59
TUKUBASAN	158.01	151.5	19 43A	-1					23 51 PP
KAKIOKA	158.04	151.7	19 46	2					
WAZIMA	158.14	144.0	19 47	3					
MITO	158.26	152.2	19 46	1					
UTUNOMIYA	158.26	150.8	19 51	6					23 58
TAKADA	158.31	147.0	19 53	8					
CHANGCHUN	158.48	114.2	19 45A	0		20 10			23 57 PP
SHIRAKAWA	158.89	151.0	19 46	1					
ONAHAMA	158.91	152.6	19 46A	1					
NIIGATA	159.31	147.7	19 48	2					
HUKUSIMA	159.55	150.9	19 47	1					
YAMAGATA	159.99	150.1	19 47	0					24 8
SENDAI	160.16	151.3	19 47	0					
ISINOMAKI	160.42	152.1	19 47	0					24 9
MIZUSAWA	161.02	150.9	19 51	3					24 11
VLADIVOSTOK	161.11	126.0	19 46	-2					24 16
AKITA	161.28	148.0	19 49	1					24 17
MORIOKA	161.57	150.4	19 49A	1					20 36
TIKSI	161.73	24.3	20 35	47	26 56	15			24 16 PP
MIYAKO	161.73	152.3	19 49	1					
AOMORI	162.50	148.2	19 48	-1					
HAKODATE	163.40	146.8							20 41
MORI	163.60	145.9	19 56	6					
SUTTSU	164.13	144.0	19 50	-1					
URAKAWA	164.29	151.3	19 53	2					
SAPPORO	164.72	146.3	19 51	0					24 31 PP
OBHIRO	165.12	151.4	19 53	1					24 38
KUSIRO	165.48	154.5	19 51K	-1					24 36 PP
NEMURO	166.08	157.4	19 54	1					31 3
WAKKANAI	166.93	142.9							20 14
YAKUTSK	166.95	55.1	19 51	-2					31 15 SKKS
Y.-SAKHLINSK	168.68	142.2	19 55	1					24 49 PP
MAGADAN	176.70	18.4	19 55	-3					25 37 PP

SEPTEMBER 10 4.H 45.M 28.S EPICENTRE -22.90 -63.45 DEPTH= 526.KM

A= 0.41221 B=-0.82489 C=-0.38683 D=-0.8945 E=-0.4470
G=-0.1729 H= 0.3460 K=-0.9222 HT= 3.9

DEPTH OF FOCUS= 0.078R

SE= 2.23

	DELTA	AZ.	P		O-C		S		O-C		*PP		SUPP.	
	DEG.	DEG.	M	S	S	M	S	S	M	S	M	S	M	S
ANTOFAGASTA	6.46	261.5	1	41	-2	2	59	-5						

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1961		PAGE 874											
LA PAZ	7.74	324.4	1	57	2	3	26	-1					
AREQUIPA	9.92	308.8	2	19	1								
SANTIAGO	12.26	209.6	2	41	-1								
HUANCAYO	15.63	311.6	3	19	3	6	4	10					
BOGOTA	29.25	337.9	5	21	0	9	34	-3					
CHINCHINA	30.14	335.3	5	26	-2	9	45	-6					
CARACAS	33.36	353.8	5	55K	-1	10	50	10					
TRINIDAD	33.40	3.7	5	57	1						8	24	
GRENADA	34.77	2.9	6	6K	-1						11	5	
GALERAZAMBA	35.41	339.7				11	1	-10					
ST. VINCENT	35.91	3.6	6	15K	-2						11	18	
BARBADOS	35.99	6.4	6	21	4								
ANTIGUA	39.82	2.4	6	46	-3								
ST. KITTS	39.99	1.1	6	48	-2								
SAN JUAN	41.10	356.1	6	57	-2				8	46	7	16	
ARGENTINE I.	42.35	180.5	7	10	1	12	54	1					
MBOUR	58.67	55.3	9	11	3	16	34	2					
CHAPEL HILL	60.33	345.4	9	18	-1								
BYRD STATION	61.92	189.4	9	21	-9								
FORDHAM	64.15	351.2	9	43	-1						17	39	
PALISADES	64.32	351.2	9	44	-1	17	41	-1	9	50	21	9	SS
C. GIRARDEAU	64.74	337.2	9	45K	-3	17	38	-9	11	34			
PENNSYLVANIA	64.77	347.9	9	49	1	17	49	2					
BLOOMINGTON	65.42	340.5	9	51K	-1	17	48	-7	11	39			
FAYETTEVILLE	65.47	332.9	9	52K	0				11	43	10	17	PCP
ROLLA	66.12	335.7	9	54K	-2	17	58	-5	11	45			
CLEVELAND	66.21	345.2	9	56K	-1								
WICHITA MTS.	66.31	328.8	9	57	-1	18	2	-4	11	48	12	24	PP
HALIFAX	67.18	359.9	10	3K	0								
SOUTH POLE	67.24	180.0	10	4	1						11	52	PP
BREBEUF	68.69	352.3	10	12	0				12	4			
OTTAWA	68.88	350.8	10	12K	-1								
MANHATTEN	69.11	333.0	10	14K	-1				12	5	18	35	
SHAWINIGAN	69.63	353.2	10	16	-2								
TUCSON TELE.	71.11	318.9	10	27	1				12	20			
TUCSON	71.12	318.8	10	28	2								
GLEN CANYON	74.86	321.8	10	50	2				12	43			
LARAMIE	74.88	328.4	10	49	1						12	43	
SCOTT BASE	75.34	189.7	10	51K	1				12	39			
BOULDER CITY	76.08	319.2	10	56	2				12	47			
PASADENA	76.97	316.0	11	1	2						12	56	
KIMBERLEY	77.87	116.1	11	5	1								
CAPE HALLETT	78.39	194.6	11	8	1				13	3			
EUREKA	79.09	321.3	11	2	-9	20	28	1			29	54	PKKP
LISBON	79.63	40.2	11	12K	-1								
COIMBRA	81.01	39.4	11	22K	1				13	19			
LICK	81.16	316.7	11	23K	2						13	20	
RENO	81.39	319.4	11	21	-2								
MAWSON	81.49	161.8	11	24K	1	20	50	-1	13	19	11	31	PCP
SERRA PILAR	81.51	38.6	11	24A	1								
BUTTE	81.77	327.8	11	25	1				13	22			
GRANADA	82.11	44.2	11	29A	3						26	55	SS
ALMERIA	82.65	45.0	11	30K	1	21	11	9					
MINERAL	82.97	319.1	11	30A	-1						13	28	PP
TOLEDO	83.44	41.8	11	35K	2				13	40	14	31	*SP
HUNGRY HORSE	84.12	328.8	11	36	0	21	16	-1	13	34	29	46	PKKP
BULAWAYO	84.19	109.3	11	38K	1								
BANGUI	84.40	82.9	11	40	2						15	1	
ALICANTE	84.81	44.7	11	37	-3	21	12	-11			17	7	PPP
BROKEN HILL	86.21	104.0	11	49K	3								
CORVALLIS	86.54	321.7	11	50A	2						13	32	
PENTICTON	87.51	327.0	11	53	1								
BAGNERES	87.86	41.1	11	56	2								
VICTORIA	88.98	324.8	11	59	0								
FOLINIERE	90.73	36.1	12	9	2								
CLERMONT-FD.	91.12	40.0	12	9	0								
GARCHY	91.90	38.7	12	13	0						16	0	PP
KEW	92.36	33.9	12	14	-1								
PARIS	92.39	37.2	12	16	1						12	57	
ISOLA	92.70	42.8	12	18	2						16	5	PP
MONACO	92.72	43.3	12	18	1								
DURHAM	93.63	30.8	12	26K	5								
ROSEL END	93.70	41.8	12	20	-1								
BASLE	94.66	40.0	12	28	3								
STRASBOURG	95.28	39.2	12	28	0								
EBINGEN	95.80	39.9									13	32	
RAVENSBURG	96.00	40.4	12	34	3								
TUBINGEN	96.02	39.6	12	32	1								
BENSBERG	96.09	36.9									15	41	

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1961

PAGE 875

HEIDELBERG	96.22	38.7	12 33	1				
STUTT GART	96.25	39.5	12 33	0				
JENA	98.55	38.2	12 43	0			16 48	PP
CHEB	98.65	39.2	12 47	4				
KASPERSKE H.	98.96	40.4	12 46K	1				
HALLE	99.01	37.8	12 46	1			13 6	
COLLMBERG	99.52	38.2	12 48K	1	14 51		16 54	PP
PRUHONICE	99.88	39.9	12 51K	2	14 59		16 58	PP
GOTEBORG	101.64	32.0	12 58A	1			17 12	PKP
HELWAN	104.97	63.6					17 41	
KIRUNA	108.70	23.5	17 30	777				
NURMI JARVI	108.73	31.5	17 29	777				
KSARA	109.80	60.8	17 34	777				
KAJAANI	110.83	28.0	17 11	-22				
SHIRAZ	122.81	68.6	17 58K	2			19 41	PP
CHARTERS TS.	128.37	216.4	18 9	2				
QUETTA	135.32	69.7	18 9	-11				
PORT MORESBY	136.09	226.4			24 46	6	21 6	
WARSAK DAM	139.20	64.0	18 17	-10				
LAHORE	141.67	67.7	18 29	-3				
NEW DELHI	144.22	72.5	18 41	5				
DEHRA DUN	144.92	69.5	18 42	5				
VI SHAKHPTNM	148.44	93.2	18 52	10				
LEMBANG	149.19	162.5	18 43K	0			20 54	PKS
CHATRA	153.08	75.6	18 53K	4				
MEDAN	154.15	135.4	18 54A	3			19 19	PKP2
MATUSIRO	156.86	310.9	18 57A	3	21 31		19 29	PKP2
SHILLONG	157.34	78.3	18 58K	3				

SEPTEMBER 11 2.H 46.M 49.S EPICENTRE 51.61 180.00 DEPTH= 43.KM

A=-0.62365 B= 0.00002 C= 0.78171 D= 0.0000 E= 1.0000
G=-0.7817 H= 0.0000 K=-0.6236 HT= -6.0

DEPTH OF FOCUS= 0.002R

SE= 2.14

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
PETROPAVLOVK	13.13	284.6	3	8	2	5	34	2				
COLLEGE	21.21	38.9	4	45	1	8	50	17			5 18	
UGLEGORSK	24.16	279.1	5	16K	3	9	41	16				
Y.-SAKHLINSK	24.55	274.0	5	13	-4	9	36	4				
YAKUTSK	28.68	310.9	6	9	14							
MATUSIRO	33.08	259.5	6	33A	-1	11	51	2				
VICTORIA	35.68	72.1	6	56A	0							
CHANGCHUN	36.84	279.9	7	5	-1						12 35	
PENTICTON	37.55	69.0	7	13	1							
CORVALLIS	37.68	77.8	7	13	0							
BANFF	39.05	64.4	7	25	1							
RESOLUTE	39.85	24.4	7	33	2							
SHASTA	40.38	82.3	7	37	2							
MINERAL	41.07	82.2	7	43A	2							
HUNGRY HORSE	41.26	67.5	7	43	0						13 31 SCP	
CALISTOGA	41.49	85.0	7	46	1							
BERKELEY	42.16	85.6	7	54K	4							
RENO	42.66	81.9	7	58K	4							
LICK	42.87	85.8	7	58K	2							
BUTTE	43.33	69.7	7	57	-3	14	57	33			13 40 SCP	
FRESNO	44.38	85.1	8	12	4							
BOZEMAN	44.41	69.3	8	9	1							
PEKING	44.60	281.1	8	11	1	14	46	4				
EUREKA	45.06	79.4	8	14	0	15	3	14	8 27		10 1 PCP	
ULAN-BATOR	45.54	295.6	8	14	-3	15	3	7				
SALT LAKE C.	46.78	75.3	8	31	4							
PASADENA	47.08	86.7	8	35	5	15	29	11				
BOULDER CITY	47.96	82.4	8	36	0							
GLEN CANYON	49.32	79.1	8	38	-9							
RAPID CITY	49.87	66.6	8	51	0							
LARAMIE	50.20	109.2	8	53	-1						15 49	
TUCSON	52.91	83.1	9	14	0							
TUCSON TELE.	52.92	83.0	9	14	0				9 28		9 51	
LANCHOW	54.63	285.2	9	28A	1							
MANHATTEN	56.80	67.3	9	42A	0							
DUBUQUE	57.88	60.8	9	49	-1							

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1961					PAGE 876		
TROMSOE	58.29	352.3	9 53	0			
WICHITA MTS.	58.67	72.5	9 56	0			11 6
SODANKYLA	59.66	348.4	10 2A	0			
KIRUNA	59.91	351.2	10 4A	0			
FAYETTEVILLE	60.31	68.4	10 6A	-1			
ST. LOUIS 1	60.79	63.8	10 11	1			
SVERDLOVSK	61.00	326.8	10 13	1			
C. GIRARDEAU	62.11	64.4	10 20	1			
BLOOMINGTON	62.46	61.0	10 21	0			
KAJAANI	62.64	346.7	10 24A	1			
OTTAWA	63.49	49.7	10 27	-1			
SHAWINIGAN	64.01	47.2	10 31	-1			
BREBEUF	64.41	48.4	10 33	-1			
NURMI JARVI	66.49	347.0	10 48A	1			
LHASA	66.77	288.7	10 53A	4	19 44	7	
HELSINKI	66.77	346.7	10 50	1			
PORT MORESBY	67.04	215.5	10 47	-4			
PALISADES	67.66	51.8	10 54	-1	19 50	3	25 10 SS
UPPSALA	67.99	350.5	10 57A	0			
MOSCOW	68.58	338.2	11 1K	0			
ANDIJAN	68.60	309.0	11 3A	2			
COLUMBIA	69.25	61.3	11 5	0			
SHILLONG	69.27	285.2	11 5A	0			
TASHKENT	69.63	311.3	11 9	2	20 17	6	
GOTEBORG	70.62	353.2	11 13A	0			
COPENHAGEN	72.58	352.6	11 26K	1			
DURHAM	73.99	1.0	11 39K	6			
LAHORE	74.74	301.6	11 37	0			
DE BILT	76.58	356.7	11 47	-1			
MUNSTER	76.60	355.2	11 50	2			
HALLE	76.77	352.4	11 49	0			
COLLMBERG	76.88	351.7	11 49A	-1			12 4 PCP
LWOW	76.90	344.3	11 51	1			
KEW	77.30	0.2	11 53	1			
JENA	77.37	352.5	11 51	-1			12 55
BENSBERG	77.63	355.4	11 55A	1			12 36
NIEDZIKA	77.87	346.6	11 57	2			
PRUHONICE	78.04	350.5	11 57	1			
KASPERSCHE H.	78.98	351.0	12 3A	2			
TIFLIS	79.22	327.5	12 5	3			
VIENNA-H.	79.54	349.0	12 8	4			
QUETTA	79.66	305.9	12 6	1	22 9	7	12 14 *SP
STUTTGART	79.69	353.8	12 6	1			
PARIS	79.94	358.3	12 9	3			
STRASBOURG	79.97	354.8	12 9	3			13 28
FOLINIERE	80.00	0.3	12 8	1			
GARCHY	81.46	357.9	12 16	2			
LJUBLJANA	81.92	349.8	12 17	0			
CLERMONT-FD.	82.97	357.8	12 24	2			
ROSELEND	83.06	354.6	12 24	2			
ISOLA	84.40	354.9	12 32	3			
FLORENCE X.	84.50	351.8	12 31A	1			
MONACO	84.83	354.6	12 33	2			
SHIRAZ	86.88	316.2	12 43A	2	23 19	4	16 3 PP
SAN JUAN	89.70	60.3	12 56	1			
CANBERRA	90.73	204.9	12 59	-1			
SCOTT BASE	129.45	183.6					22 16 SKP
MAWSON	146.20	217.8	19 34K	-1			
KIMBERLEY	150.60	311.4	19 49K	7			

SEPTEMBER 11 22.H 15.M 4.5 EPICENTRE 11.26 -62.30 DEPTH= 124.KM

A= 0.45609 B=-0.86855 C= 0.19394 D=-0.8854 E=-0.4649
G= 0.0902 H=-0.1717 K=-0.9810 HT= 6.4

DEPTH OF FOCUS= 0.014R

SE= 2.00

	DELTA DEG.	AZ. DEG.	P			S			O-C		*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S		
GRENADA	0.96	35.0	0	21K	-2									
TRINIDAD	1.09	124.1	0	20A	-4									
ST. VINCENT	2.15	27.7	0	34	-2	0	55	-9						
BARBADOS	3.22	54.6	0	50K	0	1	20	-9				1	41	
CARACAS	4.61	261.1	1	10K	1	2	10	8						

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1961				PAGE 877			
ST. KITTS	6.06	356.1	1 31	3			2 8
SAN JUAN	7.99	332.9	1 57	2	3 21	-3	
GALERAZAMBA	12.75	269.1			5 27	10	
BOGOTA	13.39	241.4	3 6	0	5 26	-6	3 17 PP
CHINCHINA	14.59	245.7	3 22	1	6 3	3	3 35 PP
HUANCAYO	26.53	209.6	5 28	0			6 3 SP
LA PAZ	28.18	191.9	5 44	1			6 10
COLUMBIA	28.39	325.9	5 45	0			
CHAPEL HILL	28.86	331.0	5 50	1			
HALIFAX	33.26	358.3	6 29K	2			
BLOOMINGTON	35.17	326.4	6 45	1			
BREBEUF	35.47	346.2					6 47
C. GIRARDEAU	35.66	321.3	6 49K	1	7 19		
OTTAWA	35.91	343.8	6 49	-1			9 12
SHAWINIGAN	36.28	347.8	6 54A	1			
ST. LOUIS 1	36.93	322.4	6 58	0			
ROLLA	37.50	320.1	7 3	0			
FAYETTEVILLE	37.97	315.9	7 7K	0			9 19 PCP
WICHITA MTS.	40.42	311.2	7 26	-1			9 4 PP
MANHATTEN	41.24	318.4	7 33	-1			
TUCSON TELE.	49.13	303.1	8 37	0			
GLEN CANYON	51.06	308.7	8 52	0			
SALT LAKE C.	52.45	313.2	9 1	-1			
BOULDER CITY	53.31	306.6	9 8	0			
BOZEMAN	53.72	319.2	9 10	-1			
BUTTE	54.83	319.0	9 19	0			
EUREKA	55.10	310.5	9 20	-1			10 19 PCP
WOODY	56.45	305.4	9 30	-1			10 25
HUNGRY HORSE	56.65	321.2	9 31	-1	10 1		10 25 PCP
LICK	58.95	306.8	9 48A	0			
MINERAL	59.48	310.3	9 50A	-2			
BERKELEY	59.53	307.3	9 52A	0			
REYKJAVIK	59.86	19.2	9 55A	0			
CALISTOGA	59.91	308.2	9 54	-1			
SHASTA	60.14	310.5	9 54	-3			
PENTICTON	60.45	320.7	9 57	-2			
SIDA	60.92	20.8	10 3	1			
CORVALLIS	61.61	314.7	10 6	-1			
BAGNERES	62.32	47.2	10 11	0	10 40		
VICTORIA	62.62	319.0	10 7A	-6			
FOLINIERE	63.13	40.8	10 17	0			10 46
PARIS	65.05	41.3	10 30	1	10 59		
RESOLUTE	66.00	351.0	10 33	-2			
MONACO	67.66	47.3	10 45	-1			
ROSELEND	67.99	45.4	10 45	-3			
BENSBERG	68.42	39.6	11 0	10			11 22
STRASBOURG	68.46	42.2	10 50	-1			11 16
MUNSTER	68.85	38.5	10 54	1			
STUTTGART	69.48	42.1	10 56	-1	11 26		
COLLMBERG	72.10	39.7	11 12A	-1	11 43		14 11
KASPERSKE H.	72.33	42.0	11 12A	-2			
LJUBLJANA	72.84	45.2	11 17A	0	11 48		
PRUHONICE	73.01	41.1	11 18A	0	11 48		
UPPSALA	75.28	30.9	11 31A	0			
TROMSOE	76.46	20.9	11 38	0	12 8		
KIRUNA	76.90	22.7	11 40A	0	12 10		
COLLEGE	77.99	334.2	11 40	-6			14 43 PP
NURMIJARVI	78.80	30.2	11 50A	0			
HELSINKI	78.97	30.6	11 51A	0			
SOFIA	79.27	48.4	12 25	32			
SODANKYLA	79.28	23.2	11 53A	0			
KAJAANI	79.97	26.5	11 58A	1			
ATHENS	80.06	53.2	12 20A	23			
BANGUI	80.26	87.4	11 59	1	12 28		
BROKEN HILL	93.48	104.0					25 9
SOUTH POLE	101.18	180.0	13 39	1			
MAWSON	113.31	160.1	18 24	1			
MATUSIRO	128.69	338.8	18 53A	0			
SHILLONG	135.58	34.2	18 53	-13			
CANBERRA	142.86	224.7	19 18	-1			
RABAU	145.16	278.9	19 24	1			
HONG KONG	146.47	5.9	19 26	1	20 7	*SPKP	
ADELAIDE	149.62	215.6	19 36A	6			
PORT MORESBY	150.98	270.9	19 40	8			
CHARTERS TS.	151.18	248.7	19 35	3			

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1961

PAGE 878

SEPTEMBER 11 23.H 47.M 35.S EPICENTRE 43.95 145.03 DEPTH= 111.KM

A=-0.59186 B= 0.41402 C= 0.69158 D= 0.5732 E= 0.8194
G=-0.5667 H= 0.3964 K=-0.7223 HT= -3.2

DEPTH OF FOCUS= 0.012R

SE= 4.19

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
ABASHIRI	0.54	277.8	0	12	-7	0	30	-3				
NEMURO	0.74	146.8				0	5	-30				
KUSIRO	1.07	205.4	0	4K	-19	0	14	-26				
OB IHIRO	1.68	232.9	0	16	-14	0	36	-16				
ASAHI GAWA	1.93	265.9	0	28	-5							
HIROO	2.08	217.4	0	17	-18	0	39	-22				
KURILSK	2.40	56.8	0	34K	-5	1	9	0				
URAKAWA	2.44	223.3	0	23	-17	0	54	-16				
WAKKANAI	2.80	302.8	0	45	0	1	47	29				
SAPPORO	2.82	253.1	0	36K	-9	1	11	-8				
TOMAKOMAI	2.84	243.5	0	37	-8	1	10	-9				
MURORAN	3.38	242.6	0	40	-13	1	18	-14				
Y.-SAKHLINSK	3.47	333.0	0	55	1							
SUTTSU	3.68	253.5	0	56	-1	1	43	4				
MORI	3.75	242.0	0	47A	-11	1	30	-11				
HAKODATE	3.79	237.2	0	45	-13	1	26	-16				
HATI NOHE	4.29	218.4	0	46	-19	1	27	-27				
AOMORI	4.43	226.6	0	52	-15	1	41	-17				
MIYAKO	4.86	209.0	0	50	-23	1	34	-34				
MORIOKA	5.13	215.5	0	58K	-18	1	46	-29				
UGLEGORSK	5.52	339.4	1	25	3							
AKITA	5.60	222.7	1	1	-22	2	0	-26				
MI ZUSAWA	5.63	212.6	0	50	-33	1	53	-34				
ISINOMAKI	6.18	208.1	1	8	-23	2	6	-34				
SAKATA	6.38	219.5	1	17	-16							
SENDAI	6.47	210.2	1	14	-21	2	15	-33				
YAMAGATA	6.70	213.4	1	16	-22	2	21	-32				
HUKUSIMA	7.09	210.7	1	24	-19	2	31	-32				
NI IGATA	7.53	218.9	2	2	13	3	13	0				
ONAHAMA	7.67	205.6	2	1	10						2	41
SHIRAKAWA	7.74	209.8	1	30	-22	2	45	-33				
MI TO	8.32	206.3	1	43A	-17	2	57	-36				
JTUNDMIYA	8.37	209.8	1	47	-13							
TAKADA	8.57	219.3	2	4	1							
TUKUBASAN	8.59	207.7	1	38A	-25	3	2	-37				
MAEBASI	8.81	213.1	1	49	-17	3	18	-26				
TYOSI	8.82	202.7	1	34	-32	3	8	-37				
KUMAGAYA	8.91	210.9	1	51	-17	3	17	-30				
NAGANO	8.94	217.9	1	55	-13						3	47
WAZIMA	9.01	226.0	1	54	-15							
MATUSIRO	9.05	217.4	1	49A	-20	3	23	-27				
OI WAKE	9.08	215.3	1	56	-14							
TOKYO C.M.O.	9.20	207.9									3	18
YOKOHAMA	9.46	207.7									3	25
VLADIVOSTOK	9.57	269.6	2	11	-5	4	6	3				
KOHU	9.65	213.2	2	16	-1	3	35	-30				
MI SIMA	9.98	210.0									3	36
AJIRO	9.99	209.2	2	0	-22	3	38	-35				
IIDA	10.07	215.8	2	11	-12							
OSIMA	10.15	207.4									3	39
GIHU	10.64	219.4	2	16	-15							
NAGOYA	10.74	218.0	2	48	16						4	50
HIKONE	10.99	220.9	2	16	-19							
KYOTO	11.44	221.9	2	24	-17						3	7
PETROPAVLOVK	12.79	40.0	3	6	7							
CHANGCHUN	14.22	276.4	3	12	-6						6	44
YAKUTSK	20.21	338.9	4	34	6	8	18	14				
PEKING	21.75	269.6	4	39A	-5	8	40	8				
ULAN-BATOR	26.63	292.1	5	29	-1							
LANCHOW	32.26	270.2	6	17A	-3							
CANTON	33.32	241.7										
MANILA	35.62	222.4	6	43	-6						7	12
COLLEGE	41.83	36.2	7	41	0							
SEMIPALATNSK	43.25	302.3	7	52	0				7	53	8	15
SHILLONG	46.52	264.9	8	14A	-4							
CHATRA	49.17	269.7	8	37A	-2							
SVERDLOVSK	51.94	316.0	9	1	1							
RESOLUTE	55.22	16.3	9	23	-1							

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1961

PAGE 879

LAHORE	55.67	282.7	9 24A	-3				
STALINABAD	55.67	292.8	9 26	-1				
APATITY	57.56	335.0	9 41	0				
SODANKYLA	59.68	336.8	9 56K	1				
VICTORIA	59.76	50.3	9 49	-7				
TROMSOE	60.08	340.9	10 9	11				
KIRUNA	61.04	339.1	10 5K	0				
PENTICTON	61.39	47.9	10 4	-3				
QUETTA	61.63	285.7	10 6A	-3				
PULKOVO	63.66	329.1	10 22	0				
CHARTERS TS.	63.73	178.7	10 11	-11				
SHASTA	64.88	57.0	10 28	-2				
HUNGRY HORSE	64.93	46.3	10 27	-3	10 39			
NURMIJARVI	65.14	331.9	10 31K	-1		11 2	PCP	
HELSINKI	65.29	331.6	10 33K	0		11 3	PCP	
RENO	67.15	56.7	10 54	10				
UPPSALA	67.94	334.4	10 49A	0				
TIFLIS	68.75	307.8	10 56	2				
EUREKA	69.48	54.7	10 56	-3	11 9	13 37	PP	
WOODY	70.17	59.4	10 59	-4				
GOTEBORG	71.41	335.5	11 10	0				
SHIRAZ	71.77	293.7	11 11A	-1				
COPENHAGEN	72.95	334.1	11 17	-2				
KRAKOW	74.87	326.9	11 31	0		11 47	PCP	
RACIBORZ	75.52	327.8	10 57	-37		12 12		
COLLMBERG	76.42	331.3	11 40A	1		11 51	PCP	
HALLE	76.62	332.0	11 40	0				
PRUHONICE	76.97	329.7	11 43A	1		12 8		
JENA	77.22	331.9	11 44	0				
MUNSTER	77.62	334.6	11 47	1				
VIENNA-H.	77.71	327.7	11 48	2				
KASPERSKE H.	78.03	329.8	11 49A	1				
BENSBERG	78.64	334.4	11 51	-1	12 3	12 9	*SP	
SOFIA	79.19	320.3	11 56	1				
STUTTGART	79.84	332.0	11 59	1				
LJUBLJANA	80.24	327.5	11 59A	-1				
STRASBOURG	80.51	332.8	12 2	0				
JERUSALEM	81.14	305.8	12 6A	1				
PARIS	81.96	336.0	12 21	12				
BESANCON	82.26	333.2	12 11	0				
WICHITA MTS.	82.66	48.1	12 11	-2		14 48		
FOLINIERE	82.83	337.8	12 15	1				
ROSELEND	83.25	331.3	12 19	3				
SHAWINIGAN	83.88	25.2	12 18K	-1				
FAYETTEVILLE	83.91	44.4	12 17K	-2				
OTTAWA	83.96	27.5	12 18K	-1				
BREBEUF	84.56	26.2	11 56	-26				
ISOLA	84.59	331.1	12 23	1				
MONACO	84.85	330.6	12 24	0				
BAGNERES	87.84	335.0	12 40	2				
MAWSON	126.94	208.4	18 47	-4				
SOUTH POLE	133.76	180.0	19 4	0				

SEPTEMBER 12 12.H 27.M 7.5 EPICENTRE 43.93 147.99 DEPTH= 43.KM

A=-0.61274 B= 0.38296 C= 0.69130 D= 0.5300 E= 0.8480
G=-0.5862 H= 0.3664 K=-0.7226 HT= -3.1

DEPTH OF FOCUS= 0.002R

SE= 1.63

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
KURILSK	1.31	356.1	0	23	1	0	40	1				
Y.-SAKHL INSK	4.83	311.7	1	13	1	2	5	-2				
UGLEGORSK	6.58	323.7	1	38	2						2 52	
MI ZUSAWA	7.03	229.4	1	49	6	2	56	-6				
SEVERO-KUR.	8.70	36.4	2	5	-1							3 52
TUKUBASAN	9.79	220.8	2	17	-4	3	59	-12				
OKHA	10.19	342.7	2	28	2							4 37
MATUSIRO	10.50	228.7	2	29K	-2	4	17	-11				
PETROPAVLOVK	11.51	34.0	2	42	-2	4	48	-5				2 50 PP
VLADIVOSTOK	11.72	271.6	2	49	2							4 37
ABUYAMA	13.18	230.9	3	4A	-3							
KLYUCHI	14.87	28.9	3	30	1							

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1961

PAGE 880

MAGADAN	15.74	5.3	3 39	-1				
CHANGCHUN	16.35	277.6	3 46	-2	6 43	-4		
YAKUTSK	21.06	335.7	4 39	-3	8 30	1	16 3	SCS
PEKING	23.90	271.7	5 12	2	9 22	1		
LANCHOW	34.40	272.2	6 45A	0	12 8	-1		
HONG KONG	35.24	243.3					7 50	19 13
COLLEGE	40.58	36.2	7 38	1				8 16
SHILLONG	48.66	267.1	8 40A	-2				
CHATRA	51.31	271.7	9 3	1				
FRUNSE	51.66	296.0	9 5	1				
SVERDLOVSK	53.43	316.9	9 17	-1				
RESOLUTE	54.63	16.9	9 25	-1				
TASHKENT	55.86	296.8	9 35	0	17 18	0		
NEW DELHI	57.45	279.8	9 42A	-5				
LAHORE	57.76	284.4	9 47	-2			10 5	
WARSAK DAM	58.30	288.3	9 52	-1				
PENTICTON	59.80	49.2	10 4	1				
CORVALLIS	60.32	55.3	10 4	-3				
SODANKYLA	60.54	337.7	10 5	-3				
TROMSOE	60.78	341.9	10 7	-3				
KIRUNA	61.81	340.0	10 14	-3				
SHASTA	63.08	58.5	10 25	0				
HUNGRY HORSE	63.38	47.6	10 27	0			10 51	
QUETTA	63.69	287.4	10 29A	0				
CHARTERS TS.	63.72	181.8	10 30	1			12 50	PP
MINERAL	63.77	58.4	10 29A	-1				
MOSCOW	64.67	324.1	10 36	1				
BERKELEY	64.84	61.0	10 37A	0				
RENO	65.36	58.2	10 41	1				
LICK	65.55	61.1	10 41A	0				
BUTTE	65.59	49.0	10 42	1				
NURMI JARVI	66.15	333.1	10 44	-1				
HELSINKI	66.31	332.8	10 42	-4				
FRESNO	67.06	60.6	10 51	0				
EUREKA	67.73	56.3	10 56	1			11 7	12 0
UPPSALA	68.87	335.6	11 1K	-1				
SALT LAKE C.	69.33	53.0	11 5	0				
PASADENA	69.75	61.9	11 7	0				
TIFLIS	70.44	309.3	11 13	1				
BOULDER CITY	70.66	58.5	11 14	1				
GORIS	71.04	306.8	11 16	1			13 51	PP
RAPID CITY	71.86	45.9	11 20	0				
REYKJAVIK	71.99	355.4	11 21	0				
SIDA	72.07	353.5	11 23A	2				
GOTEBORG	72.30	337.0	11 22K	-1				
LARAMIE	72.50	49.3	11 24	0				
SHIRAZ	73.73	295.5	11 31A	0	20 51	-6		
SIMFEROPOL	73.80	317.5	11 32	1				
COPENHAGEN	73.88	335.6	11 32K	0				
TUCSON	75.61	59.1	11 43	1				
TUCSON TELE.	75.62	59.0	11 43	1				
KRAKOW	76.04	328.5	11 44	0			12 6	
RACIBORZ	76.66	329.4	11 48	0			12 6	
COLLMBERG	77.45	332.9	11 52A	0				
HALLE	77.62	333.6	11 53	0			12 4	PCP
PRUHONICE	78.04	331.4	11 56A	0			12 31	
JENA	78.23	333.5	11 57	0	12 22		12 58	
DURHAM	78.32	342.6	11 56K	-1			13 3	
MUNSTER	78.53	336.3	11 59	1				
MANHATTEN	78.81	45.7	12 19	19				
VIENNA-H.	78.85	329.4	12 1A	1				
KASPERSKE H.	79.10	331.5	12 2A	1			12 24	
BENSBERG	79.56	336.0	12 3A	-1				
HEIDELBERG	80.47	334.4	12 9	0				
SOFIA	80.55	322.1	12 13	4				
STUTTGART	80.84	333.8	12 11	0				
WICHI TA MTS.	81.06	49.9	12 12	0			15 47	
KEW	81.10	340.6	12 12	0				
TUBINGEN	81.12	333.8	12 13	1				
LJUBLJANA	81.38	329.3	12 13A	-1				
EBINGEN	81.46	333.7	12 13	-1				
STRASBOURG	81.49	334.6	12 14	0			12 51	
RAVENSBURG	81.60	333.1	12 15	0				
TRIESTE	82.01	329.5	12 16	-1				
ROLLA	82.17	43.7	12 17A	-1	22 27	-1		
FAYETTEVILLE	82.40	46.3	12 19A	0				
BASLE	82.47	334.2	12 13	-6				
PARIS	82.82	337.8	12 22	1			12 32	

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1961

PAGE 881

JERUSALEM	82.87	307.7	12 23A	2	
OTTAWA	82.96	29.4	12 21	-1	
SHAWINIGAN	82.96	27.0	12 22	0	
BESANCON	83.22	335.0	12 26	3	
FOLINIÈRE	83.63	339.6	12 26	1	
BLOOMINGTON	83.75	39.5	12 25	-1	
C. GIRARDEAU	83.80	42.6	12 26	0	
ROSELEND	84.27	333.2	12 29	1	
CLERMONT-FD.	85.41	336.2	12 36	2	
ISOLA	85.62	333.0	12 37K	2	
MONACO	85.89	332.5	12 36	0	
PALISADES	87.43	30.4			23 13 -6
BAGNERES	88.73	337.0	12 52	2	
SOUTH POLE	133.73	180.0	19 13	1	

SEPTEMBER 12 19.H 18.M 40.S EPICENTRE 32.18-115.25 DEPTH= 0.KM

A=-0.36167 B=-0.76701 C= 0.52999 D=-0.9045 E= 0.4265
G=-0.2260 H=-0.4794 K=-0.8480 HT= 1.1

SE= 2.72

	DELTA DEG.	AZ. DEG.	P			S			O-C		*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S		
BARRETT	1.30	292.9	0	24	-1	0	38	-6						
HAYFIELD	1.56	348.1	0	26	-3									
RIVERSIDE	2.54	315.8	0	40	-3									
PASADENA	3.14	309.5	0	53A	2	1	35	5						
TUCSON	3.74	87.7	0	56	-4	1	41	-4						
BOULDER CITY	3.81	5.1	0	58	-3							6	5	
TUCSON TELE.	3.84	86.4	0	58	-3									
GLEN CANYON	5.65	31.2	1	25	-2									
FRESNO	5.93	321.9	1	30	-1							2	11	
EUREKA	7.31	355.6	1	48	-2									
LICK	7.36	316.1	1	50A	-1							4	3	
BERKELEY	8.08	316.6	1	58	-3	3	52	18						
RENO	8.23	334.5	2	7	4									
CHIHUAHUA	8.67	111.7	2	8	-1	3	48	-1				2	28	
SALT LAKE C.	9.00	16.7	2	13	-1									
MINERAL	9.63	329.6	2	25K	2							5	12	
SHASTA	10.26	327.9	2	36	5									
ARCATA	11.21	323.2										6	1	
LUBBOCK	11.35	79.3	2	48	2									
MAZATLAN	11.90	136.7										4	36	
LARAMIE	11.96	37.6	3	12	18									
BOZEMAN	13.86	12.4	3	22	2									
CORVALLIS	13.89	335.3	3	22	2									
BUTTE	13.98	7.7	3	23	2									
WICHITA MTS.	14.14	75.2	3	23	0							5	50	
RAPID CITY	15.18	35.1	3	43	6									
HUNGRY HORSE	16.18	2.9	3	50	0									
SEATTLE	16.36	342.9	3	57	5	7	3	9						
MANHATTEN	16.69	60.0	3	58	2	7	18	16						
PENTICTON	17.44	350.4	4	6	0									
VICTORIA	17.45	341.6	4	8K	2									
FAYETTEVILLE	17.86	71.6	4	10	-1									
BANFF	18.98	359.4	4	24	-1									
TACUBAYA	19.22	127.6										4	40 PPP	
ROLLA	19.93	66.9	4	36	0	8	10	-5						
ST. LOUIS 1	21.35	65.5	4	50	-1	8	48	4						
C. GIRARDEAU	21.71	69.2	4	53	-1	8	58	7						
DUBUQUE	22.01	55.1	4	55	-2	9	0	4						
PALISADES	34.08	63.1				12	51	37						
FORDHAM	34.09	63.4										17	34	
BREBEUF	34.66	55.2	6	52	-1									
SHAWINIGAN	35.39	53.6	6	59	0									
COLLEGE	38.34	338.2	7	25	1									
SAN JUAN	46.13	95.1	8	33	6									
LA PAZ	66.17	129.8	10	50	-1									
KIRUNA	74.93	15.9	11	47	3									
MATUSIRO	83.13	309.0	12	34	5									
COLLMBERG	85.24	29.7	12	45	6									
SHIRAZ	117.42	12.0	14	57	-230									
SCOTT BASE	118.73	193.7	18	55	5	25	46	1				20	35 PP	
BROKEN HILL	142.53	70.4										20	49	
BULAWAYO	145.57	78.6	19	42	2							20	15 PKP2	

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1961

PAGE 882

SEPTEMBER 13 21.H 19.M 15.S EPICENTRE -41.73 -75.13 DEPTH= 0.KM

A= 0.19214 B=-0.72341 C=-0.66315 D=-0.9665 E=-0.2567
G=-0.1702 H= 0.6409 K=-0.7485 HT= -2.3

SE= 2.09

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
SANTIAGO	9.01	24.6	2	11	-3	4	1	3				
ARGENTINE I.	24.36	168.9	5	21	0							
LA PAZ	25.86	15.5	5	36K	1	10	7	4				
HUANCAYO	29.57	359.6	6	9	0						9	15 PCP
BYRD STATION	41.73	190.6	7	51	-1				8	1		
BOGOTA	46.14	1.5	8	29	1	15	15	1				
CHINCHINA	46.48	359.3	8	30K	-1	15	21	2				
SOUTH POLE	48.46	180.0	8	46	0							
CARACAS	52.52	10.2	9	15	-2	16	41	-2				
GRENADA	54.92	16.1	9	34	-1							
SCOTT BASE	55.02	193.2	9	33A	-3	17	20	3			11	51 PP
ST. VINCENT	56.10	16.3	9	41	-2							
CAPE HALLETT	57.59	199.2	9	52A	-2	18	0	9			21	52 SS
SAN JUAN	60.38	9.8	10	8	-5				10	17		
MAWSON	66.47	163.8	10	51	-2						39	24 PKPPKP
HERMANUS	70.97	119.3									20	51 SCS
MIRNY	71.66	175.0	11	23	-3							
WILKES	72.17	182.4	11	27K	-2	20	55	4			25	53 SS
COLUMBIA	75.56	354.9	11	45	-3							
GRAHAMSTOWN	76.38	122.5	11	53	0							
WINDHOEK	76.93	108.5	11	58A	2							
CHATEAU	77.00	228.8	11	55	-1							
MBOUR	77.35	57.5	12	1	3	20	51	-57				
KARAPIRO	77.88	229.7	11	59	-2							
KIMBERLEY	78.21	117.9	11	32	-31							
LUBBOCK	78.87	337.5	12	5	-2							
WICHITA MTS.	79.07	340.5	12	4	-4	22	1	-6			14	36
FAYETTEVILLE	79.39	344.4	12	7A	-2							
C. GIRARDEAU	79.77	348.4	12	7	-4							
WASHINGTON	80.27	358.5	12	19	5						15	19 PP
TUCSON	80.63	329.9	12	14	-2							
TUCSON TELE.	80.67	330.0	12	15	-1				12	33	12	47
ROLLA	80.72	346.6	12	13K	-4	22	21	-3				
ST. LOUIS 1	81.17	348.1	12	17K	-2	22	26	-3				
BLOOMINGTON	81.20	351.1	12	16K	-3							
PENNSYLVANIA	82.19	357.9	12	23	-1	22	32	-7				
PALISADES	82.37	0.9	12	24K	-1	22	36	-5			15	30 PP
PRETORIA	82.46	117.7	12	26	0							
MANHATTEN	82.88	343.4				23	6	20				
LUANDA	82.96	95.5	12	31A	3							
DUBUQUE	85.02	348.5	12	37	-2	22	58	-10				
GLEN CANYON	85.12	331.5	12	38	-1							
PASADENA	85.23	325.4	12	39	-1	24	15	65			23	6 SKS
BOULDER CITY	85.46	328.7	12	40	-1							
BULAWAYO	86.56	113.9	12	47K	1							
HALIFAX	86.59	8.2	12	46K	0							
OTTAWA	86.75	359.6	12	45	-2							
BREBEUF	86.86	1.1	12	45K	-3							
FORT NELSON	87.45	209.8	12	49K	-2							
SHAWINIGAN	87.92	1.6	12	51K	-2							
MOORLANDS	87.93	209.9	12	53K	0							
FLAMING GRGE	87.94	334.7	12	51	-2						30	38 PKKP
FRESNO	88.16	325.6	12	53	-1							
VINEYARD	88.82	324.5	12	58	1							
EUREKA	88.95	329.6	12	57	-1				13	7	30	28 PKKP
RAPID CITY	89.07	340.2	12	55	-3							
LICK	89.43	324.7	13	0A	0							
BERKELEY	90.14	324.5	13	3K	0							
BROKEN HILL	90.34	109.7	13	6A	2							
RENO	90.51	327.1	13	4	-1							
CALISTOGA	90.92	324.8	13	7A	0							
UKIAH	91.60	324.6	13	11	1							
MINERAL	91.93	326.3	13	11	-1							
SHASTA	92.55	326.0	13	13	-1							
BOZEMAN	92.74	335.7	13	1	-14							
CANBERRA	93.31	214.8	13	17	-1							

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1961					PAGE 883
BUTTE	93.53	334.9	13 19	0	
RIVERVIEW	93.62	217.1	13 17	-2	
BANGUI	95.69	89.2	13 30	1	17 22 PP
HUNGRY HORSE	96.05	335.1	13 28	-3	30 49 PKKP
CORVALLIS	96.15	327.6	13 29K	-2	
MESSINA	114.54	60.0			29 26 PS
ROME	114.70	55.2			19 43 PP
STUTTGART	116.68	47.5	18 47	1	
TRIESTE	117.54	52.3			20 15 PP
LJUBLJANA	118.21	52.2	18 50	1	19 55 PP
KASPERSKE H.	119.27	48.8	18 51	0	
COLLMBERG	120.05	46.5	18 53A	0	20 18
PRUHONICE	120.24	48.4	18 54	1	20 9
COLLEGE	120.30	331.8	18 51	-2	20 20 PP
HELWAN	120.85	76.0	19 9	15	20 21 PP
JERUSALEM	124.69	76.2	19 3A	1	20 50 PP
ISTANBUL KA.	124.94	63.4			20 51
UPPSALA	126.20	38.7	19 3	-2	
KSARA	126.21	74.4	19 4	-1	21 4 PP
NURMI JARVI	129.73	39.3	19 11A	-1	
TROMSOE	129.77	27.0	19 11	-1	22 34 PKS
KIRUNA	129.87	29.5	19 11K	-1	21 23 PP
SIMFEROPOL	129.95	61.0	19 12	0	
LEMBANG	131.61	183.6	19 15A	0	22 44 PP
KAJAANI	131.97	35.2	19 16	0	
SODANKYLA	132.10	30.7	19 15A	-1	22 42 PKS
PULKOVO	132.29	41.2	19 15	-1	
SOTCHI	133.16	64.7	19 19	1	
APATITY	134.73	30.8	19 21	0	
MOSCOW	135.29	47.9	19 21	-1	
TIFLIS	135.99	69.0	19 23	0	
GORIS	136.25	72.6	19 25	1	
SHIRAZ	136.41	88.7	19 16	-8	22 58 PKS
MAKHACH-KALA	138.29	68.3	19 28	1	
TEHERAN	138.41	80.1	19 15	-13	25 30 -67
PETROPAVLOVK	142.72	306.4	19 29	-6	
MADRAS	144.20	135.9	19 37	-1	
BOMBAY	144.50	120.1	19 40	2	
POONA	144.89	121.8	19 39	0	
MAGADAN	146.71	318.2	19 42	0	
QUETTA	147.45	98.4	19 45	2	23 30 PKS
SVERDLOVSK	148.07	46.5	19 44	0	
SAMARKAND	151.35	81.4	19 50	1	
TUKUBASAN	152.20	270.3	19 56	5	44 4 PSS
STALINABAD	152.35	84.5	19 52	1	
Y.-SAKHLINSK	152.63	294.1	19 49	-2	
WARSAK DAM	152.71	95.5			20 0 PKP2
TASHKENT	153.46	78.9	19 54	2	
LAHORE	153.59	102.7	19 55	2	
MATUSIRO	153.73	269.7	19 51	-2	43 21 SS
YAKUTSK	154.84	332.2	20 0	6	
NAMANGAN	155.15	80.6	19 56	1	
DEHRA DUN	155.60	109.2	20 11	16	
ANDI JAN	155.61	81.4	19 57	2	
FRUNSE	157.64	77.0	19 59K	1	
HONG KONG	159.11	204.8	19 58	-2	24 12 PP
CHATRA	159.20	130.1	20 1K	1	
SHILLONG	160.62	142.2	20 2K	1	20 45
SEMI PALATNSK	160.91	54.6	20 1K	-1	
IRKUTSK	169.45	1.9	20 7	-2	

SEPTEMBER 14 8.H 3.M 12.S EPICENTRE 32.83 47.54 DEPTH= 90.KM

A= 0.56837 B= 0.62113 C= 0.53959 D= 0.7377 E=-0.6751
G= 0.3643 H= 0.3981 K=-0.8419 HT= 0.9

DEPTH OF FOCUS= 0.009R

SE= 2.52

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
TEHERAN	4.31	46.6	1	2	-3	2	6	11				
SHIRAZ	5.31	125.3	1	19A	0	2	19	0			1	42 PG
TIFLIS	9.14	347.0	2	8	-3							
KSARA	9.81	278.9	2	22	2	4	17	8			5	22 SG
MAKHACH-KALA	10.12	359.8	3	27	62							

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1961

PAGE 884

JERUSALEM	10.48	267.6	2 32	3			
HELWAN	14.16	262.3	3 18	0		7 42	
SIMFEROPOL	15.96	323.2	3 41	0			
QUETTA	16.76	93.9	3 53	2			
ISTANBUL UN.	16.92	304.2	3 49	-4			
SAMARKAND	17.09	61.0	3 56	1			
STALINABAD	18.15	65.6	4 9	1			
ATHENS	20.06	291.5	4 28A	-1			
WARSAK DAM	20.07	80.1	4 28	-1			
NAMANGAN	20.93	60.3	4 39	2			
ANDIJAN	21.35	61.2	4 43A	1			
SOFIA	21.46	304.3	4 42	-1			
FRUNSE	23.51	57.1	5 6A	3			
MOSCOW	23.92	346.1	5 6	-1	9 26 12		
LWOW	24.33	321.2	5 16	5		9 43	
SVERDLOVSK	25.64	16.7	5 23	0			
NEW DELHI	25.81	91.5	5 25K	0		8 53	
DEHRA DUN	26.07	87.3				9 4	
SKALNATE PL.	26.08	316.8	5 28	1			
MESSINA	26.50	290.7	5 32K	1			
KRAKOW	26.69	318.3	5 32	-1			
BRATISLAVA	27.53	312.8	5 39	-2			
RACIBORZ	27.68	317.2	5 41	-1			
VIENNA-H.	28.01	312.6	5 45A	0			
LJUBLJANA	28.49	307.3	5 48	-1			
TRIESTE	28.91	306.2	5 57	4			
SEMIPALATNSK	29.78	44.2	6 2K	1			
KASPERSKE H.	30.05	312.9	6 1A	-2			
COLLMBERG	31.20	316.6	6 12A	-1			
NURMI JARVI	31.49	338.4	6 14	-2			
HALLE	31.88	316.5	6 12	-7		7 10 PP	
STUTTGART	32.65	310.6	6 24	-2			
MONACO	33.02	301.0	6 28	-1			
ISOLA	33.34	301.8	6 32	0			
COPENHAGEN	33.39	323.7	6 32A	0			
UPPSALA	33.47	332.8	6 31A	-2			
BASLE	33.48	307.9	6 33	0			
KAJAANI	33.62	344.4	6 33A	-1			
NEUCHATEL	33.80	306.8	6 35	-1			
BESANCON	34.49	307.1	6 34	-8			
BENSBERG	34.55	313.8	6 42	0			
MUNSTER	34.57	315.6	6 45	3			
GOTEBORG	34.62	326.7	6 41A	-2			
CHATRA	34.75	89.3	6 47A	3			
GARCHY	36.46	306.6	6 58	0			
SODANKYLA	36.69	346.6	7 0A	0			
PARIS	37.05	309.1	7 4	1			
KIRUNA	38.40	343.8	7 19A	4			
FOLINIERE	39.00	308.6	7 18	-1			
BANGUI	39.13	229.8	7 21	0			
SHILLONG	39.14	88.8	7 17A	-4			
KEW	39.25	312.9	7 21	-1			
TROMSOE	40.16	344.9	7 28	-1			
DURHAM	40.62	317.7	7 37K	4			
KHEYS	48.08	2.3	8 33	0			
BROKEN HILL	50.43	204.2	8 45	-6			
TANANARI VE	51.46	180.0	8 53K	-6		9 17	
BULAWAYO	55.69	201.7	9 32A	2			
PRETORIA	61.11	200.0	10 10	3			
MATUSIRO	71.82	58.0	11 16	1			
HALIFAX	80.74	317.6	12 7	2			
COLLEGE	81.88	6.6	12 13	2		12 24	
SHAWINIGAN	84.42	323.2	12 26K	2			
BREBEUF	85.57	322.9	12 32	2			
HUNGRY HORSE	97.52	347.7	13 26	1			
WICHITA MTS.	105.66	331.5	18 18	777			

SEPTEMBER 14 18.H 44.M 48.S EPICENTRE -23.55-179.90 DEPTH= 536.KM

A=-0.91772 B=-0.00159 C=-0.39723 D=-0.0017 E= 1.0000
G= 0.3972 H= 0.0007 K=-0.9177 HT= 3.8

DEPTH OF FOCUS= 0.079R

SE= 1.59

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1961

PAGE 885

	DELTA	AZ.	P		O-C	S			*PP		SUPP.	
	DEG.	DEG.	M	S	S	M	S	S	M	S	M	S
SUVA	5.59	343.5					2	42	-8			
RAOUL ISLAND	5.95	163.1	1	38	0		2	53	-3			
AFIAMALU	12.28	40.1	2	39	-3		4	48	-4			
NOUMEA	12.64	272.9	2	47A	2		5	16	17			
KARAPIRO	14.86	194.2	3	9	1							
KOLMAC	14.96	278.4	3	12	3		5	45	4			
CHATEAU	16.08	192.9	3	19	-1							
WELLINGTON	18.24	192.9					6	39	0			
GEBBIES PASS	21.02	195.2					7	35	10			
HONIARA	23.83	302.7	4	31	-1							
BRISBANE	24.94	255.4	4	41	-1						7	48
CANBERRA	29.40	239.4	5	22	1							
CHARTERS TS.	31.56	269.6	5	38	-2	10	9	-2				
FORT NELSON	33.23	226.5	5	53A	-1							
PORT MORESBY	34.48	288.5	6	5A	1							
ADELAIDE	37.61	242.8	6	30A	0							
DARWIN	47.96	274.5	7	50	-1							
MUNDARING	56.46	246.3	8	51	-1							
BYRD STATION	61.95	170.1	9	28	-1							
SOUTH POLE	66.59	180.0	9	59	1							
LEMBANG	71.26	270.6	10	25A	-1							
MATUSIRO	71.65	325.5	10	28	0							
MAWSON	78.11	200.4	11	4	0							
ARGENTINE I.	78.86	157.2	11	9	1							
VINEYARD	81.47	43.8	11	25	3							
BERKELEY	81.61	42.5	11	25K	2							
LICK	81.67	43.2	11	25K	2							
CALISTOGA	81.89	41.7	11	25	1							
WOODY	82.48	45.9	11	28	1				13	29		
FRESNO	82.50	44.6	11	29	2							
SHASTA	83.29	40.2	11	34	3							
MINERAL	83.55	40.9	11	34K	2							
EUREKA	86.53	44.1	11	48	1							
PENTICTON	90.15	34.6	12	2	-2							
COLLEGE	91.56	13.1	12	9	-1				14	11		
FLAMING GRGE	91.56	45.6	12	11	1							
WICHITA MTS.	96.37	55.0	12	33	1							
SHIRAZ	133.06	289.2									20	57
COLLMBERG	150.55	343.4	18	52	8						19	12 PKP2

SEPTEMBER 14 21.H 50.M 44.S EPICENTRE 37.46 141.67 DEPTH= 61.KM

A=-0.62425 B= 0.49348 C= 0.60564 D= 0.6201 E= 0.7845
G=-0.4751 H= 0.3756 K=-0.7957 HT= -0.8

DEPTH OF FOCUS= 0.004R

SE= 2.43

	DELTA	AZ.	P		O-C	S			*PP		SUPP.	
	DEG.	DEG.	M	S	S	M	S	S	M	S	M	S
ONAHAMA	0.80	230.6	0	14A	-3	0	23	-7				
HUKUSIMA	1.00	287.2	0	17K	-2	0	26	-7				
ISINOMAKI	1.01	344.0	0	17K	-2	0	28	-5				
SENDAI	1.01	323.1	0	16K	-3	0	27	-6				
SHIRAKAWA	1.21	254.1	0	19K	-3	0	32	-6				
YAMAGATA	1.31	307.3	0	18K	-5	0	32	-8				
MITO	1.45	222.1	0	24K	-1	0	40	-4				
KAKIOKA	1.72	224.7	0	26K	-3	0	42	-8				
MI ZUSAWA	1.72	345.8	0	26	-3	0	41	-9				
TUKUBASAN	1.77	226.0	0	26	-3							
SAKATA	2.04	315.2	0	32	-1							
NIIGATA	2.13	283.2	0	32	-2	0	57	-3				
MIYAKO	2.20	6.0	0	34	-1	0	57	-4				
KUMAGAYA	2.26	235.3	0	36	0	1	5	2				
MORIOKA	2.27	350.2	0	34K	-2	0	59	-4				
HONGO	2.32	221.8	0	36	-1						1	0
MAEBASI	2.34	243.9	0	35K	-2	1	2	-3				
TOKYO C.M.O.	2.36	221.6	0	35	-2	1	1	-4				
TITIBU	2.55	235.4	0	38	-2	1	4	-6				
AKITA	2.57	331.8	0	45	5	1	12	1				
TAKADA	2.75	263.5	0	44	1	1	14	-1				
NAGANO	2.89	255.2	0	45	0						1	31
MATUSIRO	2.92	252.7	0	43K	-2						1	29
MERA	2.94	211.0	0	48	2							

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1961		PAGE 886					
HUNATU	3.05	231.0	0 49	2	1 20	-3	
HATINOHE	3.07	358.0	0 48	1	1 29	6	
KOHU	3.08	235.4	0 46	-2	1 21	-3	
AJIRO	3.18	221.6	0 48	-1	1 23	-3	
MATUMOTO	3.21	249.0	0 53	4	1 31	4	
MISIMA	3.21	224.1	0 49	0			
OSIMA	3.26	215.3	0 51	1	1 24	-4	
AOMORI	3.43	348.6	0 55	3	1 33	1	
IIDA	3.65	239.1	0 56	0	1 39	1	
TOYAMA	3.66	259.4	1 1	5	1 41	3	
TAKAYAMA	3.78	251.1	0 54	-3			
WAZIMA	3.80	270.2	1 2	4			
OMAESAKI	4.00	225.5	1 0	0			
HAKODATE	4.40	351.1	1 9	3	2 4	7	
NAGOYA	4.43	240.4	1 10	4	2 0	3	
GIHU	4.46	244.0	1 8	1			
HATIDYOZIMA	4.62	200.0			1 59	-3	
MORI	4.71	350.0	1 12	2	2 8	4	
URAKAWA	4.76	10.0	1 13	2	2 7	1	
TSURUGA	4.86	249.8	1 13	1			
MURORAN	4.88	353.9	1 15	2	2 14	5	
HIKONE	4.89	245.1	1 14	1	2 6	-3	
KAMEYAMA	4.95	239.8	1 35	21	2 32	22	
HIROO	4.98	14.2	1 20	6	2 6	-5	
TOMAKOMAI	5.16	359.2					1 38
SUTTSU	5.45	348.7			2 17	-6	
NARA	5.49	241.4	1 36	15			
ABUYAMA	5.57	244.2	1 22K	0			
SAPPORO	5.61	357.6	1 25	2	2 28	1	
OSAKA	5.71	242.4			2 23	-6	
KUSIRO	5.89	19.9	1 24	-3	2 28	-6	
NEMURO	6.58	25.7			2 41	-9	
SHILLONG	43.63	269.0	7 57A	-3			
CHATRA	46.78	273.4	8 24A	-1			
COLLEGE	48.62	32.4	8 40	1			
DARWIN	50.61	193.8	8 54	-1			
NEW DELHI	53.86	280.6	9 12A	-7			
CHARTERS TS.	57.40	174.9	9 45	1			
QUETTA	61.02	287.3	10 7	-2			
SODANKYLA	64.65	337.2	10 32A	-1			
KIRUNA	66.19	339.2	10 41	-2			
KAJAANI	66.30	334.0	10 42A	-2			
NURMI JARVI	69.67	332.0	11 2	-3			
HUNGRY HORSE	71.33	43.0	11 16	1			14 49
SHIRAZ	72.04	293.8	11 21A	2			
EUREKA	75.42	51.4	11 40	1			11 55
WOODY	75.80	55.9	11 41	0			
FLAMING GRGE	78.49	47.0	11 58	2			
COLLMBERG	80.84	330.2	12 7	-2			12 27
KASPERSKE H.	82.29	328.6	12 15	-1			
STUTTGART	84.31	330.6	12 25	-1			
PARIS	86.77	334.4	12 38	-1			
WICHITA MTS.	88.95	45.7	12 50	1			
SOUTH POLE	127.27	180.0	18 58	0			

SEPTEMBER 15 1.H 46.M 10.S EPICENTRE 34.98 33.83 DEPTH= 33.KM

A= 0.68215 B= 0.45717 C= 0.57067 D= 0.5567 E=-0.8307
G= 0.4741 H= 0.3177 K=-0.8212 HT= 0.1

DEPTH OF FOCUS= 0.000R

SE= 1.76

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.		
			M	S		M	S	S	M	S	M	S	
KSARA	2.05	123.7	0	30	-3	0	49	-8			8	37	PCP
JERUSALEM	3.40	159.6	0	51K	-1								
HELWAN	5.51	203.2	1	20K	-2	2	20	-5					
ISTANBUL KA.	7.15	329.7	1	47	2	3	16	10			2	27	PG
ISTANBUL UN.	7.16	329.2	1	46K	1						3	59	SG
ATHENS	8.67	293.1	2	6A	0						2	23	PPP
SIMFEROPOL	9.96	1.2	2	27K	3	4	18	2					
TI FL IS	10.93	48.7	2	40	3						4	52	
GORIS	10.94	62.0	2	41	4						5	1	
BUCHAREST	11.15	330.1				4	45	0			2	40	PP

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1961

PAGE 887

SKOPJE	11.95	309.4	2 49	-2			7 21
CAMPULUNG	12.28	329.5					2 57 PP
TITOGRAD	13.58	307.5	3 15	2	5 49	6	3 49
BELGRADE	14.20	317.8	3 21K	0	5 4	-54	3 28 PP
TARANTO	14.22	297.6	3 18	-3			5 53
TEHERAN	14.35	81.9	3 25	2	6 26	24	
TIMISOARA	14.41	322.1	3 36	12	6 28	25	
REGGIO CALA.	14.94	287.3	3 30	-1	6 1	-15	
MESSINA	15.03	287.7	3 30	-2	6 12	-6	3 37 3 45 PP
LWOW	16.48	337.1	3 53	3	6 59	8	4 9 PP
SHIRAZ	16.66	103.4	3 54A	1	6 59	3	7 8 SS
BUDAPEST	16.70	322.9	3 51	-2	6 44	-12	4 27 PPP
ZAGREB	17.34	314.0	4 1	0			
SKALNATE PL.	17.37	328.9	4 3	2	7 25	13	
HURBANOVO	17.37	322.6	4 2	1	7 24	12	
ROME	18.07	298.8	4 11A	1	7 33	5	4 23
BRATISLAVA	18.12	321.7	4 11K	0	7 30	1	
KRAKOW	18.17	330.2	4 12	1			4 37 PPP
LJUBLJANA	18.33	312.9	4 13A	0	7 39	5	4 32 PP
VIENNA-H.	18.55	320.9	4 17A	1	7 49	11	4 36 PP
TRIESTE	18.61	311.0	4 15A	-2	7 44	4	8 18 *SS
CHORZOW	18.74	329.2	4 18	0			4 30 PP
RACIBORZ	18.93	327.6	4 20	-1			4 38 PP
FLORENCE X.	19.50	303.6	4 23A	-4	8 2	2	
WARSAW	19.53	335.9	4 25	-2	8 1	1	4 47 PP
PRATO	19.63	303.7	4 27	-2	8 6	3	
PADOVA	19.69	308.6	4 28A	-1	8 7	3	4 51 PP
BOLOGNA	19.69	305.6	4 31	2	8 14	10	
ASHKABAD	19.93	74.3	4 32	0	8 18	9	
KASPERSKA H.	20.55	319.6	4 38A	0	8 32	11	
PRUHONICE	20.57	322.7	4 39A	0	8 25	3	5 4 PP
CUGLIERI	20.65	292.0					10 50
PRAGUE	20.69	322.7	4 40	0	8 34	10	5 1 PP
MOSCOW	20.92	6.0	4 42	0	8 29	1	8 44 PCP
CHIAVARI	20.99	303.8	4 44	1			7 42 SS
PAVIA	21.37	305.9	4 47	0			9 42 PP
CHUR	21.76	310.4	4 50	-1	8 49	5	
RAVENSBURG	22.11	312.7	4 52	-2			
MONACO	22.13	301.2	4 53	-1	8 53	2	
COLLMBERG	22.17	323.7	4 54A	-1	8 51	-1	5 16 PP
ROSELEND	22.50	305.7	5 7	9	9 14	16	
ISOLA	22.51	302.1	4 58	0			9 7
JENA	22.66	321.5	4 59	0	9 8	7	5 38 PPP
EBINGEN	22.68	313.1	4 59	-1			
STUTTGART	22.77	314.7	5 0A	-1	9 5	2	
TUBINGEN	22.78	314.0	5 0A	-1	9 8	5	
HALLE	22.81	323.1	5 1	0	9 7	4	
BASLE	23.26	310.6	5 5	0			9 15
KARLSRUHE	23.39	314.6	5 8	1	9 24	10	
HEIDELBERG	23.39	315.7	5 6	-1	9 19	5	
NEUCHATEL	23.45	309.0	5 7	0			
STRASBOURG	23.57	313.2	5 8A	0	9 24	7	5 48
BESANCON	24.16	309.0	5 14	0			
PULKOVO	24.91	355.8	5 22	1	9 40	0	6 17 PPP
BENSBERG	25.02	317.9	5 22A	0	9 50	8	6 0 PP
MUNSTER	25.29	320.2	5 25	0			
COPENHAGEN	25.39	331.2	5 26A	0	9 48	0	5 35 10 16
CLERMONT-FD.	25.61	304.2	5 28	0	10 12	21	
HELSINKI	25.86	349.8	5 30	0			8 59 PCP
GARCHY	26.05	307.5	5 31	-1			6 8
NURMIJARVI	26.23	349.7	5 33A	-1	10 0	-2	8 57 PCP
DE BILT	26.66	318.8	5 40	2	10 17	8	
PARIS	26.89	310.5	5 38	-2			5 59
UPPSALA	27.04	342.0	5 40	-1	10 15	0	9 1 PCP
GOTEBORG	27.04	333.9	5 40A	-1			9 2 PCP
BAGNERES	27.24	297.4	5 42	-1			
ALICANTE	27.63	287.2	5 47	0	10 27	3	6 34 PP
QUETTA	28.24	90.4	5 52	0	10 38	4	6 39 PP
SVERDLOVSK	28.40	31.4	5 53	-1	10 32	-5	
TASHKENT	28.45	66.5	5 54	0	10 41	3	6 46 PP
FOLINIERE	28.76	309.2	5 56	-1			
ALMERIA	29.35	284.3	6 1A	-1	10 36	-16	6 52 PP
KAJAANI	29.37	354.5	6 1A	-1			9 7 PCP
KEW	29.50	314.5	6 1A	-2	10 52	-2	6 16
GRANADA	30.21	285.2	6 18K	8	11 24	19	8 54 PCP
TOLEDO	30.32	290.6	6 11A	0			7 16 PP
WARSAK DAM	30.99	80.8	6 15	-2			
DURHAM	31.47	320.0	6 20K	-1	11 21	-4	
FRUNSE	32.44	63.6	6 29	0	11 46	5	

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1961					PAGE 888		
APATITY	32.62	359.7	6 29	-2			
SODANKYLA	32.70	354.8	6 31A	-1			9 17 PCP
ABERDEEN	32.78	323.8			11 53	7	
BANGUI	33.55	208.3	6 39	0	11 58	0	
COIMBRA	33.65	291.6	6 41A	1			
SERRA PILAR	33.72	293.3	6 40K	0	11 59	-1	7 53 PP
KIRUNA	33.78	350.9	6 40A	-1	12 1	0	9 19 PCP
LAHORE	33.88	84.1	6 41	-1	12 0	-3	
ALMATA	34.15	62.8	6 44	0	12 12	5	14 26 SS
LISBON	34.37	289.1	6 46A	0			7 1
TROMSOE	35.67	351.1	6 56	-1			
SEMIPALATNSK	36.79	50.7	7 7	0	12 50	2	
NEW DELHI	37.19	87.5	7 7A	-3	12 50	-4	8 30 PP
BOMBAY	38.00	104.6	7 19	2	13 13	7	8 50 PPP
POONA	39.02	104.3	7 27	2			9 0 PP
HYDERABAD	43.29	102.1	8 3	3	14 25	0	9 44 PCP
REYKJAVIK	44.30	328.7	8 10	2			
CHATRA	46.03	84.9	8 24	2	15 5	1	
MADRAS	47.15	105.9	8 32	1			
LUANDA	47.75	208.0	8 36A	0	15 32	3	
LHASA	48.09	79.5	8 39A	1	15 34	0	
CALCUTTA	48.86	89.5			15 53	9	17 54
BROKEN HILL	49.42	186.8	8 49A	0			11 12
MBOUR	49.93	258.9	8 54	1	16 4	5	
SHILLONG	50.39	84.1	8 54A	-2	16 4	-2	
IRKUTSK	51.78	47.5	9 6A	-1	16 24	-1	10 53 PP
ULAN-BATOR	54.33	52.4	9 42	16	17 3	3	
BULAWAYO	55.04	186.0	9 31A	0			10 33 PCP
TANANARIVE	55.16	164.1	9 31A	-1			10 33 PCP
LANCHOW	55.81	67.0	9 35A	-1	17 21	2	
CHENG TU	58.03	72.9	9 14	-38	17 56	7	
TIKSI	58.78	21.7	9 57	0	17 55	-3	12 13 PP
WINDHOEK	59.39	198.0	10 32K	30			
KUNMING	59.42	79.3	10 1	-1	18 7	0	
PRETORIA	60.63	185.8	10 10	0			
YAKUTSK	62.39	32.0	10 20	-2	18 42	-3	
PEKING	63.28	58.4	10 27	-1	18 55	-1	
KIMBERLEY	63.96	188.8	10 31K	-1			
RESOLUTE	65.57	346.8	10 39	-4			
MEDAN	67.44	101.9	10 53K	-1			12 41
CHANGCHUN	67.76	51.4	11 21A	25			
GRAHAMSTOWN	68.28	186.5	11 0A	0			
CANTON	68.89	76.1	11 3A	0	19 56	-8	
HONG KONG	69.95	76.4	11 7	-3	20 16	0	11 29
HERMANUS	70.38	192.8			20 29	8	20 45 PS
HALI FAX	71.12	311.5	11 18A	1			
NHATRANG	71.18	88.1	11 18	1			11 43 PCP
VLADIVOSTOK	72.29	49.6	11 19	-5			
MAGADAN	72.46	28.4	11 24	-1	20 49	4	
SHAWINIGAN	75.46	316.9	11 43A	1			
Y.-SAKHLINSK	76.45	41.8	11 48	0	21 32	2	
BREBEUF	76.56	316.4	11 49A	0			
OTTAWA	77.80	317.2	11 56	0			
PALISADES	79.42	312.8	12 4	0	22 11	9	23 1 PS
FORDHAM	79.49	312.7	12 6	1	22 9	6	
MATUSIRO	79.98	52.4	12 7	-1	22 10	2	
PETROPVLOVK	80.13	30.2	12 6	-2	22 5	-4	15 12 PP
COLLEGE	80.47	0.7	12 10	0	22 12	-1	38 46 PKPPKP
LEMBANG	80.78	105.0	12 13	1	22 25	9	
TUKUBASAN	81.39	51.7	12 15	0	22 21	-1	
PENNSYLVANIA	81.90	314.6	12 20	2			
ST. KITTS	85.44	287.8	12 37	1			
ST. VINCENT	86.67	283.6	12 44	2			
SAN JUAN	87.47	290.6	12 47	2			12 59
GRENADA	87.68	283.0	12 49	3			
DUBUQUE	87.70	322.4	12 47A	1	23 19	-5	
BLOOMINGTON	87.89	317.8	12 48	1	23 20	-6	
TRINIDAD	88.21	281.7	12 53	4			
COLUMBIA	88.23	311.0	12 50	1			
BANFF	90.09	341.3	12 58A	0			
ST. LOUIS 1	90.30	319.5	12 59A	0	23 39	-9	
C. GIRARDEAU	90.89	318.2	13 1	-1	23 46	-8	
ROLLA	91.73	320.0	13 6	0	23 45	-16	
HUNGRY HORSE	92.22	339.2	13 8	0			
CARACAS	92.72	284.7	13 13K	3	24 0	-10	
PENTICTON	92.82	343.0	13 10	-1			
BUTTE	93.86	337.3	13 16	1			17 4 PP
FAYETTEVILLE	94.30	320.2	13 17A	0			

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1961

PAGE 889

VICTORIA	94.43	345.1	13 17	-1					
LARAMIE	95.42	330.5	13 22	0					
FLAMING GRGE	97.23	332.8	13 31	0				30 8	PKKP
WICHITA MTS.	97.63	322.2	13 32	0	24 20	14		17 32	PP
SALT LAKE C.	98.27	334.4	13 37	2					
EUREKA	100.83	336.6	13 48	1				29 59	PKKP
SHASTA	101.57	341.8	13 51	1					
MINERAL	101.70	341.1	13 52K	1				17 32	
BOGOTA	101.88	284.2			24 38	11		18 9	PP
CHINCHINA	102.90	285.5			24 43	11		18 12	PP
CALISTOGA	103.56	341.2						18 16	PP
BERKELEY	104.20	340.7						18 19	PP
LICK	104.52	340.0	14 5K	2				18 15	PKP
VINEYARD	105.00	339.6	14 8	3					
TUCSON TELE.	105.22	329.4	14 7	777				29 46	PKKP
TUCSON	105.34	329.5	14 8	777				29 46	PKKP
PASADENA	106.41	336.1	14 5	777	25 1	13		18 30	PP
LA PAZ	108.92	262.8	17 43	777				19 3	PP
CHARTERS TS.	119.30	95.0	18 47	1				29 2	
ARGENTINE I.	124.50	210.4	18 56	0					
CANBERRA	127.88	110.3	19 5A	2					
BRISBANE	127.92	99.5	19 5	2				43 13	
MOORLANDS	128.66	119.5	19 7K	3					
RIVERVIEW	129.05	107.8	19 2	-3				31 37	PS
SCOTT BASE	132.55	167.8	19 12A	1				21 35	PP
CAPE HALLETT	136.48	162.2	19 14	-5				21 56	PP
NOUMEA	136.91	86.0	19 16	-3					
KAIMATA	146.36	115.8	19 43	7					
GEBBIES PASS	147.26	118.0	19 42	4					
COBB RIVER	147.28	113.1	19 41	3					
ONERAHI	147.96	103.0	19 48	9					
AFIAMALU	148.80	54.1	19 43	3				19 47	PKP2
WELLINGTON	148.83	113.4	19 45	5					
KARAPIRO	149.20	106.9	19 46	5					
CHATEAU	149.32	109.3	19 46	5				20 15	
TUAI	150.54	108.4	19 49	6					

SEPTEMBER 17 8.H 41.M 56.S EPICENTRE 24.07 122.25 DEPTH= 36.KM

A=-0.48771 B= 0.77305 C= 0.40563 D= 0.8457 E= 0.5336
G=-0.2164 H= 0.3431 K=-0.9140 HT= 3.6

DEPTH OF FOCUS= 0.000R

SE= 2.08

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
HWALIEN	0.58	259.9	0	13	0							
ILAN	0.83	326.9	0	17	1							
TAIPEI	1.16	325.3	0	24A	4	0	41	6				
HSINKONG	1.26	219.9	0	20	-2							
YUSHAN	1.33	243.8	0	14	-9							
HSINCHU	1.37	302.1	0	29	6	0	48	7				
TAICHUNG	1.43	273.3	0	27	3	0	47	5				
ALISHAN	1.44	247.7	0	24A	0	0	41	-1				
TAITUNG	1.66	217.6	0	26	-2	0	46	-2				
TAWU	2.12	216.1	0	32K	-2	0	56	-3				
TAINAN	2.15	240.5	0	40	6	1	0	0				
KAOHSIUNG	2.32	231.9	0	49	12	1	14	9				
HENGCHUN	2.48	214.1	0	40A	1	1	24	15				
PENGHU	2.53	258.2	0	35	-5	1	4	-6				
ZO-SE	7.06	352.5	1	42A	-2	3	9	5				
CANTON	8.23	265.0	1	58	-2							
NANKING	8.52	339.7	2	1A	-3	3	44	4				
MANILA	9.42	186.9	2	15	-2	4	30	28				
SIAN	15.42	314.1	3	38A	1							
PEKING	16.71	343.6	3	55A	2	7	8	11				
CHENG TU	17.47	296.0	4	1	-2	7	21	7				
KUNMING	17.77	277.4	4	7A	1	7	31	10				
MATUSIRO	18.52	44.2	4	16	0	7	44	6				
TUKUBASAN	19.58	47.7	4	24	-4						5 34	
CHANGCHUN	19.87	6.5	4	30A	-1	8	18	10				
LANCHOW	19.87	311.1	4	33A	2	8	17	9				
VLADIVOSTOK	20.60	20.4	4	42	3	8	32	10				
TOCKLAI	24.94	282.0	5	28	6						7 8	
ULAN-BATOR	26.74	336.7	5	37	-1							

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1961

PAGE 890

SHILLONG	27.59	279.5	5	44A	-2	10	24	1			
Y.-SAKHLINSK	28.15	30.5				10	34	2			
LHASA	28.34	288.1	5	54A	1	11	11	36			
MEDAN	30.53	231.8	6	12K	0	11	11	1	6	18	
IRKUTSK	31.30	338.6	6	18A	-1	11	29	7			
CHATRA	31.73	282.5	6	25A	2	11	33	4	7	15 PP 7	27 PP
LEMBANG	33.87	206.7	6	42K	0	12	6	4	6	54	
VISHAKHAPTNM	36.84	267.7	7	8	1						13 56
YAKUTSK	38.27	5.7	7	16	-3						8 53 PP
DEHRA DUN	39.61	289.0	7	34	4	13	33	3			9 7 PP
NEW DELHI	40.45	286.4	7	21A	-16	13	25	-18			9 22 PPP
RABAUL	40.48	130.0	7	39	2						
MAGADAN	40.71	21.9									
PORT MORESBY	41.21	140.9	7	43K	0	13	55	1	7	55	16 58 SSS 8 45
MADRAS	41.23	262.2	7	46	3						14 23 17 52
HYDERABAD	41.36	269.4									
SEMI PALATNSK	41.72	320.0	7	47	0						
LAHORE	42.76	291.0	7	55A	-1						
FRUNSE	43.29	307.6	8	2	2						18 9 SCS
WARSAK DAM	45.03	294.7	8	15	1						
POONA	45.26	272.7	8	16	0						
BOMBAY	46.10	273.5									
TASHKENT	47.04	304.8	8	31	1	15	21	2			10 13 10 26 PP
TIKSI	47.73	2.8	8	33	-3	15	25	-3			10 28 PP
QUETTA	49.19	289.9	8	46A	-1	15	52	3	8	56	10 43 PP
CHARTERS TS.	49.74	149.9	8	50	-1	16	1	5			
KARACHI	49.96	282.9	8	49	-4						
SVERDLOVSK	54.71	323.7	9	27	-1	17	14	10			
ASHKABAD	55.51	300.5	9	35	1	17	24	9			
MUNDARING	56.03	186.2	9	36A	-2						
BRISBANE	59.04	148.2	9	59	0	18	3	1			
KOUMAC	60.36	133.8	10	8K	0						
ADELAIDE	60.76	164.5	10	10A	-1	18	28	4	10	20	
TEHERAN	61.33	298.8	10	15	0	18	40	9			
SHIRAZ	61.62	291.9	10	16A	-1	18	52	17	10	28	12 42 PP
NOUMEA	63.01	133.6	10	26K	0						
RIVERVIEW	63.81	153.4	10	31	0						20 24
CANBERRA	64.28	155.9	10	34	0						
GORIS	64.59	303.8	10	37A	1	19	19	7			13 6 PP
TIFLIS	65.31	306.5	10	41A	0						19 38 PS
MOSCOW	67.48	322.4	10	53	-2	19	46	-1			11 6 PCP
COLLEGE	68.45	27.3	11	0	-1	19	59	1			11 37
KEVO	69.44	338.3	11	6K	-1						
MOORLANDS	70.07	160.6	11	16	5						
SODANKYLA	70.16	335.8	11	10K	-1						
PULKOVO	70.47	327.5	11	12	-1	20	31	9			15 41 PPP
FORT NELSON	70.57	160.7	11	15K	1				11	24	
KAJAANI	70.58	332.3	11	14	0						
SIMFEROPOL	72.13	311.8	11	22A	-1	20	44	3			21 32 SCS
TROMSOE	72.17	339.0	11	22	-1						
KIRUNA	72.29	337.0	11	23A	-1						
HELSINKI	72.94	328.8	11	27K	-1						
NURMI JARVI	72.98	329.1	11	27K	-1						14 16 PP
KSARA	74.16	300.3	11	36	1	21	12	8			14 27 PP
JERUSALEM	75.35	298.5	11	43A	1						
UPPSALA	76.48	329.8	11	47A	-1						
ISTANBUL KA.	76.87	309.2				20	55	-39			14 20 PP
BUCHAREST	77.71	313.2	11	54A	-1						
WARSAW	77.86	321.9	11	56	0	22	8	23			12 7 PCP
RESOLUTE	78.62	9.4	11	59	-1						
HELWAN	79.15	297.8	12	3A	0						
KRAKOW	79.37	320.1	12	3	-1						22 30 SCS
KARAPIRO	79.41	139.8	12	9	5						
SKALNATE PL.	79.55	319.3	12	5	0						
CHORZOW	79.82	320.6	12	6	-1						12 17 PCP
GOTEBORG	80.08	329.2	12	7A	-1						
SOFIA	80.23	312.4	12	9	0						12 44
CHATEAU	80.26	140.8	12	10	1						
RACIBORZ	80.37	320.7	12	10	0						12 17 PCP
COPENHAGEN	80.85	327.3	12	12A	0						
TUAI	80.94	139.7	12	14	1						
BELGRADE	81.26	315.2	12	13A	-1						13 20
ATHENS	81.87	307.9	12	16	-1						
VIENNA-H.	82.27	319.6	12	21	2						15 28 PP
PRUHONICE	82.51	321.7	12	21A	0						15 31 PP
COLLMBERG	82.73	323.3	12	21A	-1						15 31 PP
HALLE	83.20	323.8	12	23	-1				12	34	
KASPERSKE H.	83.47	321.2	12	26A	0						15 34 PP

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1961		PAGE 891									
ZAGREB	83.63	317.5	12 26	0							
JENA	83.69	323.4	12 26	-1						15 40	PP
TANANARIVE	84.40	246.6	12 31	1							
LJUBLJANA	84.42	318.2	12 30	0						15 45	PP
TRIESTE	85.08	318.1	12 32	-2							
MUNSTER	85.24	325.6	12 36	2							
WITTEVEEN	85.25	326.7	12 36	2							
BENSBERG	86.03	325.0	12 38A	0					12 51		
STUTTGART	86.09	322.4	12 40	1	23 17	8				15 59	PP
VICTORIA	86.99	37.3	12 43A	0							
STRASBOURG	87.03	322.8	12 44	1	23 34	16				13 24	
MESSINA	87.54	310.9	12 45	-1	23 24	1			12 56	16 11	PP
FLORENCE X.	87.57	317.4	12 44A	-2	23 32	9					
BASLE	87.72	322.0								13 44	
ROME	87.76	315.3	12 46	-1						24 34	PS
DURHAM	87.95	331.2	12 40K	-8							
PENTICTON	88.58	35.3	12 52A	1							
ROSELAND	88.83	320.2	12 52	0							
CORVALLIS	89.23	40.6	12 56A	2							
KEW	89.50	328.2	12 55	0							
BANFF	89.52	32.2	12 56A	1							
PARIS	89.75	325.0	12 57	1							
ISOLA	89.90	319.4	12 57	0						16 46	PPP
MONACO	89.93	318.9	12 56	-1							
GARCHY	90.36	323.5	12 57	-2						16 47	PP
CLERMONT-FD.	91.24	322.3	13 3	0							
SHASTA	91.96	43.4	13 8	2							
HUNGRY HORSE	92.08	33.7	13 9	2						13 35	
MINERAL	92.65	43.4	13 10A	0							
BERKELEY	93.63	45.7	13 13	-1							
RENO	94.24	43.2	13 19	2							
LICK	94.34	45.9	13 18A	1							
EUREKA	96.65	41.5	13 29	1						17 26	PP
PASADENA	98.49	46.8	12 57	-39	24 16	6				26 10	S
FLAMING GRGE	99.50	37.0	13 42	1						17 55	PP
CAPE HALLETT	101.49	166.6			24 30	5				18 0	PP
SCOTT BASE	104.97	171.2								18 26	PP
WICHITA MTS.	109.86	34.9	14 32	777	25 5	3				19 16	PP
PALISADES	113.53	13.3								22 12	PPP
SAN JUAN	137.02	11.7	19 19	-1							
CARACAS	144.49	15.7	19 37	4						20 14	
CHINCHINA	146.29	33.4	19 38	2							
BOGOTA	147.35	31.3	19 44	6							
HUANCAYO	159.48	57.4	20 1	6							
LA PAZ	167.69	54.2	20 6	4						21 12	PKP2

SEPTEMBER 17 23.H 22.M 8.S EPICENTRE -6.01 147.50 DEPTH= 63.KM

A=-0.83880 B= 0.53442 C=-0.10392 D= 0.5373 E= 0.8434
G= 0.0876 H=-0.0558 K=-0.9946 HT= 7.0

DEPTH OF FOCUS= 0.005R

SE= 2.39

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	S	M	S	S	M	S		
PORT MORESBY	3.39	185.8	0	53K	1	1	29	-2				
RABAU	4.99	69.1	1	13	-1							
HONIARA	12.80	106.2	3	1	0							
DARWIN	17.62	247.8	4	3	0	7	16	2				
KOUMAC	21.78	133.2	4	48	0	8	48	8				
BRISBANE	21.85	167.3	4	50K	1	8	42	1				
PORT VILA	23.44	121.6	5	4	0	9	17	8				
NOUMEA	24.44	133.4	5	12	-2	9	22	-5				
RIVERVIEW	27.89	173.5	5	49	3	10	27	4	5 58	12 9	SCP	
CANBERRA	29.21	177.5	5	58	0				6 10			
ADELAIDE	29.94	194.5	6	4A	0	10	59	3		12 44	SCP	
MELBOURNE	31.76	183.8	6	21	1	11	29	4				
SUVA	32.50	114.5				11	52	16		12 42	PCS	
MANILA	33.29	308.3	6	35	1	11	45	-3				
MOORLANDS	36.28	180.4	7	OK	1					9 24	PCP	
FORT NELSON	36.77	180.2	7	0	-3					9 24	PCP	
MUNDARING	39.00	224.5	7	23K	1							
LEMBANG	39.63	266.6	7	27A	0	13	27	2		10 39		
RAOUL ISLAND	39.99	129.5	7	22	-8							
AFIAMALU	40.82	104.3	7	38A	1							

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1961

PAGE 892

MATUSIRO	43.21	349.1	7 58A	2	14 19	1		13 32
CANTON	44.16	312.1	8 32	28				
ZO-SE	44.66	327.2	8 9A	1	14 42	3	8 24	15 4 *SS
NANKING	46.71	325.9	8 25A	1	15 13	5	8 42	15 37 *SS
MACQUARIE I.	49.23	171.2	8 44	0				
KUNMING	53.39	307.3	9 16	1				
CHANGCHUN	53.50	340.1	9 16A	0			9 32	
SIAN	54.14	320.4	9 21	0				9 44 *SP
PEKING	54.14	330.5	9 21A	0			9 37	9 45 *SP
CHENG TU	55.31	313.8	9 29	0				9 51 *SP
HONOLULU	59.85	61.3	10 3	2	18 16	10		
KIPAPA	59.96	61.2	10 3	1				
SHILLONG	62.45	302.8	10 17A	-2				
WILKES	65.43	195.5			19 17	1		
CHATRA	66.84	302.4	10 40	-7				
CAPE HALLETT	67.70	172.7	10 53K	0	19 43	-1		20 53 SCS
SCOTT BASE	72.51	175.8	11 22K	0	20 43	3	11 36	14 1 PP
NEW DELHI	75.79	301.3	11 33K	-8				11 55
LAHORE	78.94	303.6	11 58A	0				
WARSAK DAM	81.79	305.5	12 14	1				
MAWSON	82.43	202.6	12 16A	-1			12 30	12 30 *SP
BYRD STATION	84.65	169.9	12 29	1				
QUETTA	84.87	301.0	12 30	1	22 55	4	12 40	23 15 *SS
COLLEGE	84.97	22.8	12 28	-2			12 43	30 35 PKKP
BERKELEY	93.83	52.5						26 28
SHASTA	93.96	49.7	13 13	1				
LICK	94.28	53.0	13 18K	5				
MINERAL	94.53	50.0	13 15K	0				
FRESNO	95.72	53.7	13 21	1				
RENO	95.86	50.9	13 22	1				
PENTICTON	96.39	41.1	13 24	1				
PASADENA	96.91	56.4	13 27	2				26 22 SS
SHIRAZ	97.25	299.0	13 26	-1				17 20
TANANARIVE	97.42	250.1	13 28	0				
EUREKA	98.82	51.1	13 35	1				29 51 PKKP
HUNGRY HORSE	100.09	42.1	13 40	0				14 17
LARAMIE	106.64	48.8	18 21	777				
WICHITA MTS.	113.02	54.9	14 50	-220				19 40 PP
BULAWAYO	114.58	244.8	18 36	3				
KIMBERLEY	114.98	234.6	18 37	3				
FAYETTEVILLE	116.30	52.7	18 37	1				
DUBUQUE	117.24	45.0	18 37	-1				
ROLLA	117.65	50.2	18 42	3				29 41 PS
ST. LOUIS 1	118.72	49.0						19 58 PP
PRUHONICE	121.12	326.5	18 47	1				
COLLMBERG	121.23	328.4	18 47	1				20 10 PP
BLOOMINGTON	121.32	47.4	18 47	1				
KASPERSKE H.	122.11	326.0	18 47	-1				20 23
LJUBLJANA	123.15	322.6	18 50	1				
WINDHOEK	123.79	237.9	18 51	0				
BENSBERG	124.38	330.7	18 54	2				
STUTTGART	124.65	327.6	18 54	1				
SHAWINIGAN	126.80	33.9	18 58	1				
GARCHY	128.82	329.4	19 2	1				
BANGUI	129.08	270.8	19 3	2				21 10 PP
PALISADES	129.23	40.3						21 34 PP
FOLINIERE	129.48	333.0	19 3	1				
HALIFAX	132.92	30.2	19 10	2				
HUANCAYO	133.79	112.9	19 15	5				22 42 PP
LA PAZ	138.26	122.9	19 12	-6				
BOGOTA	138.59	89.8	19 15	-4				22 54 PKS
SAN JUAN	144.99	66.4	19 31	1				
CARACAS	145.65	80.2	19 38A	7				
ST. KITTS	148.38	66.5	19 42	6				
ANTIGUA	149.25	66.4	19 45	8				
ST. VINCENT	150.78	73.8	19 47K	8				

SEPTEMBER 18 5.H 8.M 35.S EPICENTRE 34.39 25.96 DEPTH= 62.KM

A= 0.74349 B= 0.36201 C= 0.56229 D= 0.4378 E=-0.8991
G= 0.5056 H= 0.2462 K=-0.8269 HT= 0.3

DEPTH OF FOCUS= 0.004R

SE= 2.98

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1961

PAGE 893

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	O-C S	M	S	M	S
ATHENS	4.00	333.7									1	1 P*
HELWAN	6.41	133.3	1	30	-4	2	42	-4				
ISTANBUL UN.	7.05	19.0									3	53 SG
ISTANBUL KA.	7.10	19.4	1	40	-3	3	0	-3			2	28 PG
JERUSALEM	8.19	106.0	1	52K	-6	3	14	-16				
SOFIA	8.54	346.8	2	8	5						2	41
REGGIO CALA.	9.11	296.9									3	39
MESSINA	9.22	297.3	2	7	-5	3	42	-14			2	35
TITograd	9.59	328.8				4	10	5			2	55 PG
BUCHAREST	10.01	0.6				4	37	22			5	30
BELGRADE	11.24	339.5	2	58	18						3	33 PG
SIMFEROPOL	12.26	28.3	3	6	13							
ZAGREB	13.72	329.3									5	57
LJUBLJANA	14.54	326.6	3	22	-1	6	17	14				
TRIESTE	14.61	324.0	3	27	3	6	16	11			6	35 *SS
LWOW	15.48	355.3	3	35	0							
TIFLIS	16.52	58.2	3	49	0							
GORIS	17.05	66.7	3	56	1	7	18	17				
MONACO	17.12	308.5	3	56	0							
KASPERSKE H.	17.35	331.8	3	57	-2							
ISOLA	17.57	309.4	4	0	-2							
PRUHONICE	17.69	335.1	4	3	0						4	54
ROSELEND	17.86	313.8	4	13	8							
STUTTGART	18.97	324.2	4	17	-1							
BASLE	19.04	319.1	4	17	-2							
COLLMBERG	19.33	334.8	4	19	-3						4	43 PPP
JENA	19.56	332.0	4	22	-3	8	10	13			5	7
STRASBOURG	19.59	321.8	4	23	-2							
HALLE	19.88	333.6				8	11	8			4	51 PP
TEHERAN	20.84	79.0	4	40	2	8	40	18				
BENSBERG	21.46	326.2	4	43	-2							
GARCHY	21.48	313.7	4	43	-2						6	0
BAGNERES	21.85	301.0	5	4	16							
MUNSTER	21.97	328.6	4	33	-17							
PARIS	22.58	316.7	4	53	-3							
MOSCOW	22.81	17.2	4	58	0							
SHIRAZ	22.98	94.5	5	2A	2						5	23
FOLINIERE	24.29	314.3	5	11	-1							
PULKOVO	25.55	5.1	6	23	59							
HELSINKI	25.80	358.9	5	24	-2							
UPPSALA	26.05	350.4	5	26	-3						5	47
NURMIJARVI	26.14	358.5	5	26	-4							
KAJAANI	29.73	1.5	6	0	-2							
SKALSTUGAN	30.42	347.9	6	5	-3							
BANGUI	30.63	194.5	6	18	8							
SODANKYLA	33.02	0.5	6	29	-2							
KIRUNA	33.63	356.2	6	34	-2							
NEW DELHI	43.70	83.0	8	OK	0							
SHAWINIGAN	71.32	313.9	11	16	1							
COLLEGE	80.94	357.3	12	8	-1						12	33
BLOOMINGTON	83.78	313.7	12	0A	-23							
MATUSIRO	85.34	48.4	12	33	2							
ST. LOUIS 1	86.34	315.2	12	31	-5							
C. GIRARDEAU	86.81	313.9	12	39A	1							
ROLLA	87.81	315.6	12	45	2							
MANHATTEN	89.52	319.1	12	53	2							
HUNGRY HORSE	90.21	334.6	12	56	1							
LARAMIE	92.49	325.6	13	7	2							
WICHITA MTS.	93.87	317.2	13	13	2				13	31		

SEPTEMBER 18 11.H 1.M 4.S EPICENTRE 41.05 50.27 DEPTH= 46.KM

A= 0.48349 B= 0.58166 C= 0.65414 D= 0.7690 E=-0.6392
G= 0.4181 H= 0.5030 K=-0.7564 HT= -2.1

DEPTH OF FOCUS= 0.002R

SE= 2.54

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	O-C S	M	S	M	S
BAKU	0.72	202.8	0	16	1							
SHEMAKHA	1.31	252.0	0	24A	2	0	40	1				
LENKORAN	2.53	206.4	0	41	2	1	8	-1				
MAKHACH-KALA	2.82	313.9	0	47K	3							

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1961		PAGE 894					
KIROVOBAD	3.01 263.7	0 44A	-2	1 16	-6	2 38	
GORIS	3.38 244.1	0 50	-2			1 19	
GROZNY	4.05 305.6	1 3K	2			1 22	
NAKHICHEVAN	4.16 245.3	1 3A	1	1 47	-4	1 25	
TIFLIS	4.17 281.1	1 3A	0	1 47	-4		
DUZHETI	4.30 285.7	1 6A	2	1 51	-3		
STEPANAVAN	4.45 271.3	1 6A	-1				
EREVAN	4.47 260.7	1 6A	-1			1 26	
GORI	4.71 283.4	1 10	0	1 59	-5		
LENINAKAN	4.87 269.0	1 23	11				
KIZYL-ARVAT	4.96 109.9	1 15	1				
BOGDANOVKA	5.04 274.7	1 15	0				
BAKURIANA	5.12 279.9	1 16	0				
AKHALKALAKI	5.13 276.2	1 16	0			2 10	
BORZHOMI	5.23 280.9	1 17K	-1			1 37	
TEHERAN	5.37 170.2	1 20	1	2 17	-4		
ABASTUMANJ	5.64 279.6	1 23A	0				
GEGECHKORI	6.05 285.0	1 32A	3				
PIATIGORSK	6.09 301.7	1 28K	-2			2 28	
ZUGDIDI	6.44 286.0	1 33	-1				
ASHKABAD	6.97 113.7	1 36	-6	3 3	2		
KRASNAYA	7.90 292.7	1 56	1				
SOTCHI	8.21 291.4	2 3	4				
SHIRAZ	11.52 170.1	2 44	0	4 53	1		
SIMFEROPOL	12.45 293.6	2 56	-1				
SAMARKAND	12.83 90.7	3 0	-2				
KSARA	13.51 242.3	3 10	-1	5 45	5	8 32 PCP	
TASHKENT	14.33 82.6	3 21	0	5 58	-2		
DUZHANBE	14.44 93.8	3 22	-1	6 2	0		
JERUSALEM	15.22 237.4	3 33A	0	6 15	-6		
ISTANBUL KA.	15.99 277.1	3 43	0	6 46	7		
ISTANBUL UN.	16.05 277.0	3 43	-1				
NAMANGAN	16.16 83.2	3 46A	1				
ANDIJAN	16.71 83.7	3 54A	2				
MOSCOW	16.88 334.8	3 51	-3			4 5 PP	
SVERDLOVSK	17.17 19.6	3 55	-3				
QUETTA	17.33 123.1	4 3K	3	7 16	6	4 15 PP	
FOCSANI	17.38 293.2			7 18	8		
IASI	17.39 298.3	4 1	1	7 11	0		
BACAU	17.72 296.0			7 18	0		
BUCHAREST	18.05 288.8	4 9A	0	7 29	3		
FRUNSE	18.19 76.3	4 13A	3	7 33	4		
WARSAK DAM	18.27 105.8	4 11	0				
HELWAN	18.99 240.0	4 18A	-2	7 46	-1		
ALMATA	19.88 74.7	4 33	3			4 59 PP	
SOFIA	20.10 283.7	4 28	-4	8 18	8		
LWOW	20.31 304.4	4 32K	-2	8 14	0	8 45	
ATHENS	20.68 270.1	4 37K	-1				
KARACHI	21.38 134.0	4 41	-4	8 22	-13		
LAHORE	21.53 108.4	4 48K	1	8 45	7		
TIMISOARA	21.56 292.3	4 50	3	8 39	1		
BELGRADE	22.09 289.8	4 51K	-1	8 48	0	12 16 PCS	
SKALNATE PL.	22.58 301.2	4 55	-2			5 11 PP	
SEMI PALATNSK	22.79 55.7	5 2	3			9 7	
WARSAW	22.82 309.2	5 0	0	9 3	2	5 37 PPP	
KRAKOW	22.94 303.3	4 55	-6	9 10	7	8 44 PCP	
TITOGRAD	23.12 283.8	5 3	1	9 7	1	5 34 PPP	
BUDAPEST	23.18 296.6	5 5	2	9 12	5	5 22 PP	
CHORZOW	23.58 303.6	5 6	-1	9 17	3	10 16 SSS	
HURBANOVO	23.76 297.5	5 7	-2				
RACIBORZ	24.04 302.9	5 12	1			5 45 PP	
BRATISLAVA	24.52 298.1	5 14	-2	9 37	6		
HELSINKI	24.71 329.3	5 19	1				
DEHRA DUN	24.88 106.6	5 24	4	9 52	15	10 52 SS	
TARANTO	24.94 279.6	4 28	-52			10 28	
VIENNA-H.	25.02 298.2	5 21K	0			8 55 PCP	
NURMI JARVI	25.05 329.7	5 21K	0	9 32	-8		
ZAGREB	25.23 292.4	5 22K	-1				
NEW DELHI	25.26 111.0	5 21K	-2	9 43	0	5 58 PP	
LJUBLJANA	26.24 293.0	5 32K	0			6 15 PP	
PRUHONICE	26.36 301.9	5 35	2	10 15	14		
KAJAANI	26.55 337.8	5 35K	0	10 37	33		
REGGIO CALA.	26.74 275.1	5 27	-10			10 14	
MESSINA	26.79 275.4	5 35	-2	10 6	-2	6 11 PP	
TRIESTE	26.80 292.2	5 36	-1	10 7	-1	6 20 PP	
KASPERSKE H.	26.92 299.9					8 26	
COLLMBERG	27.49 304.6	5 43	-1	10 21	1	6 43 PPP	
UPPSALA	27.60 324.0	5 43K	-2			6 31 PP	

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1961										PAGE 895
APATITY	28.11	346.3	5	54	5					
PADOVA	28.13	291.9				10	27	-3		6 22 PP
HALLE	28.17	304.8	5	49	-1	10	31	0		
ROME	28.18	284.4	5	49	-1	10	31	0		12 36 SS
JENA	28.34	303.6	5	49	-2	10	35	2		6 29 PP
COPENHAGEN	28.65	313.6	5	54	0					16 31 SCS
BOMBAY	29.32	132.1				11	14	25		
SODANKYLA	29.39	341.6	6	1K	0	11	6	16		6 25
GOTEBORG	29.47	317.4	6	0K	-1					11 34
STUTTGART	29.74	299.0	6	3	-1	10	53	-3		6 59 PP
HEIDELBERG	30.11	300.3	6	5	-2					
POONA	30.19	131.0	6	9	1					
KARLSRUHE	30.31	299.5	6	3	-6					7 10 PP
STRASBOURG	30.75	298.7	6	26	13					9 8
MUNSTER	30.89	305.3	6	12	-2					
ROSELEND	31.09	292.7	6	24	8					11 21
BENSBERG	31.13	303.3	6	15	-1					7 18 PP
KEVO	31.23	344.6	6	17	0					
KIRUNA	31.33	338.7	6	18K	0					6 56
MONACO	31.50	289.4	6	18	-1					
WITTEVEEN	31.53	306.8	6	19	-1					
SKALSTUGAN	31.60	328.3	6	19K	-1					7 9 PP
ISOLA	31.69	290.3	6	30	9					
BE SANCON	32.03	296.3								7 38
DE BILT	32.40	305.4								13 8
TROMSOE	32.97	340.5	6	32	0					
CHATRA	33.48	103.4	6	39K	2					11 56
BERGEN	33.54	320.6	6	36	-1					
GARCHY	34.00	296.7	6	40	-1					8 18
CLERMONT-FD.	34.18	294.0	7	42	59					
KEW	35.83	304.4	7	2	5					
FOLINIERE	36.18	299.8	6	58	-2				7 13	
VI SHAKHPTNM	36.65	119.5	7	4	0					
TORTOSA	37.20	286.6	7	9	0					
SHILLONG	37.66	101.0	7	11A	-1					
TOCKLAI	39.18	97.1	7	20	-5					
ULAN-BATOR	40.19	60.5	7	36	3					
ALMERIA	40.71	281.8	7	37A	-1	13	41	-3		9 5 PP
TOLEDO	40.78	286.9	7	36K	-2					9 35
GRANADA	41.42	282.8								12 14
CHENG TU	44.16	85.8	8	8	2					14 21
KUNMING	46.07	93.3	8	23K	2	15	5	3		
SIAN	46.18	78.7	8	24K	2	15	10	6		
BANGUI	46.24	226.4	8	21	-1	15	1	-4		
TIKSI	48.10	24.7	8	37	0	15	31	0		10 33 PP
PEKING	48.99	68.3	8	46K	2	15	50	6		
CHANGCHUN	53.65	60.2	9	20K	1	16	50	2		
NANKING	54.50	76.1	9	26K	1	17	3	4		
CANTON	55.22	88.5				17	12	3		
HONG KONG	56.30	88.7								10 40 PCP
ZO-SE	56.74	75.8	9	42K	1	17	33	4		
NHATRANG	58.73	101.5	9	56	1					33 59 PKKP
BROKEN HILL	58.79	204.9	9	56	0					
TANANARIVE	59.71	183.0	10	2K	0					10 55
RESOLUTE	62.25	350.1	10	19	0					
Y.-SAKHLINSK	62.94	50.1	10	22	-2					
MBOUR	63.57	266.2	10	28	0					10 45 PCP
BULAWAYO	64.11	202.7	10	36	5					
MATUSIRO	65.82	61.9	10	42K	0	19	42	18		
PRETORIA	69.55	201.2	11	6	0					
WINDHOEK	70.39	212.5	11	12A	1					
KIMBERLEY	73.35	203.2	11	29A	1					
COLLEGE	73.47	7.9	11	30	1				11 45	11 54 *SP
HALIFAX	76.15	317.8	11	46K	1					
GRAHAMSTOWN	77.16	200.2	11	50K	0					
SHAWINIGAN	79.12	323.9	12	2K	1					
BREBEUF	80.30	323.7	12	15	8					
OTTAWA	81.31	324.8	12	14K	1					
PALISADES	83.91	321.0	12	25	-1	22	46	1	12 36	24 20 PS
BANFF	87.33	351.1	12	44K	1					
PENTICTON	89.58	353.4	12	54	0					
DUBUQUE	89.65	332.2	12	56K	2					
HUNGRY HORSE	89.91	349.6	12	56	1				13 13	14 43
VICTORIA	90.64	355.8	13	0	1					
BLOOMINGTON	90.95	327.8	13	1K	1					
RAPID CITY	91.96	341.2	13	6	1					
BUTTE	91.97	348.1	13	6	1					
BOZEMAN	92.06	347.0	13	8	3					

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1961

PAGE 896

ST. LOUIS 1	92.88	330.1	13	8	-1								
C. GIRARDEAU	93.76	329.0	13	14K	1	24	20	4					
ROLLA	94.15	330.9	13	16K	1								
CORVALLIS	94.56	355.4	13	19K	2								
MANHATTEN	94.60	334.8	13	18	1								
LARAMIE	95.15	342.0	13	20	1								
FLAMING GRGE	96.34	344.6	13	26	1								
SALT LAKE C.	96.96	346.4	13	32	5								
SHASTA	98.36	354.4	13	35	1								
MINERAL	98.65	353.7	13	31K	-4								
EUREKA	98.88	349.3	13	38	2				13	55	29	59	PKKP
WICHITA MTS.	99.34	334.4	13	39	1						24	41	SKKS
BOULDER CITY	102.14	347.7	18	14	263						29	36	PKKP
CHARTERS TS.	107.31	101.7									14	14	
SCOTT BASE	135.30	164.4	19	9	-6						21	50	PP

SEPTEMBER 18 15.H 37.M 32.S EPICENTRE -21.12 173.41 DEPTH= 0.KM

A=-0.92749 B= 0.10710 C=-0.35819 D= 0.1147 E= 0.9934
G= 0.3558 H=-0.0411 K=-0.9336 HT= 4.4

SE= 2.83

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.		
			M	S		M	S	S	M	S	M	S	
SUVA	5.57	58.9	1	21	-5								
PORT VILA	5.87	304.2	1	32	1	2	52	13					
NOUMEA	6.58	258.4	1	38	-3								
KOUMAC	8.56	272.1	2	7A	-1								
ONERAHI	14.62	176.9	3	34	4								
AFIAMALU	15.83	65.5	3	43	-3	6	46	3					
KARAPIRO	16.85	174.2	4	0	1								
TUAI	17.91	170.5	4	13	1								
TONGARIRO	18.11	174.7	4	16	1								
BRISBANE	19.81	247.6	4	33	-2	8	18	5					
WELLINGTON	20.13	177.0	4	37	-2	8	38	18					
KAIMATA	21.40	184.0	4	57	5								
GEBBIES PASS	22.53	181.4	5	3	0						5	30	
RIVERVIEW	23.40	232.6	5	10	-1	8	57	-25			8	47	PCP
ROXBURGH	24.53	186.9				9	58	17					
CHARTERS TS.	25.43	267.4	5	29	-2	9	55	-1					
CANBERRA	25.66	231.3	5	34	1	10	3	3			11	13	SS
PORT MORESBY	27.84	290.8	5	57	4	10	34	-2			12	33	
MELBOURNE	29.68	229.6	6	9	-1								
MOORLANDS	30.59	220.0	6	18K	0								
FORT NELSON	30.79	219.1	6	20K	0						13	10	SS
ADELAIDE	33.40	238.1	6	41K	-1						11	29	
CAPE HALLETT	51.24	181.3	9	6A	-2	16	29	3					
MUNDARING	51.79	245.4	8	59	-13								
SCOTT BASE	56.87	181.7	9	48A	-1								
BYRD STATION	65.41	169.8	10	44	-3								
MATUSIRO	66.29	329.5	10	51	-1	19	42	1			11	37	
SOUTH POLE	69.01	180.0	10	57	-13	20	12	-2					
HONG KONG	72.12	303.3				21	16	26					
ZO-SE	72.16	314.6				20	53	2					
CANTON	73.19	303.5				21	22	20					
NANKING	74.36	314.0									17	27	
MAWSON	78.15	201.5	12	2	-1								
PEKING	80.88	319.2	12	24	6	22	34	8					
SIAN	82.39	311.0				22	36	-5					
KUNMING	82.59	300.4				22	46	3					
ARGENTINE I.	83.41	159.0	12	29	-2								
CHENG TU	84.19	305.8				23	3	4					
LICK	84.33	46.5	12	36A	1								
FRESNO	85.30	47.8	12	46	6								
SHASTA	85.62	43.4	12	46	4								
MINERAL	85.95	44.0	12	50A	7								
CHINA LAKE	86.37	49.5	12	44	-1								
BOULDER CITY	88.42	50.4	12	54	1								
EUREKA	89.26	46.9	12	58	-1						13	20	
TUCSON TELE.	89.87	55.2	13	3	1								
COLLEGE	90.75	15.5	13	3	-3								
WICHITA MTS.	100.15	56.8									27	3	SP
SHIRAZ	126.41	291.8	19	11	6						22	10	
SKALNATE PL.	144.78	329.1	19	39	0								
RACIBORZ	145.09	331.8	19	40	1								

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1961 PAGE 897

COLLMBERG	146.21	337.8	19 41	0	19 48	PKP2
HALLE	146.40	339.0	19 44	2	19 50	PKP2
PRUHONICE	146.69	334.9	19 43	1		
BRATISLAVA	146.98	330.4	19 45	2	20 3	PKP2
SOFIA	146.99	317.6	19 47	4		
JENA	147.01	338.8	19 46	3	20 41	
VIENNA-H.	147.25	331.2	19 44	1		
MUNSTER	147.28	343.7	19 47	4		
KASPERSCHE H.	147.75	334.9	19 45	1		
BENSBERG	148.32	343.4	19 46	1	20 7	
STUTTGART	149.63	339.0	19 51	4		
LJUBLJANA	149.73	330.2	19 52	5		
STRASBOURG	150.28	340.6	19 56	8		
TRIESTE	150.39	330.4	19 53	5	20 8	PKP2
PARIS	151.43	347.4			28 28	
BESANCON	152.01	341.6	20 16	25		
GARCHY	152.75	345.6	20 15	23	20 39	PKP2
FLORENCE X.	152.96	330.8	20 17	25		

SEPTEMBER 19 2.H 25.M 51.S EPICENTRE -20.37 -63.25 DEPTH= 580.KM

A= 0.42226 B=-0.83781 C=-0.34609 D=-0.8930 E=-0.4501
G=-0.1558 H= 0.3091 K=-0.9382 HT= 4.6

DEPTH OF FOCUS= 0.086R

SE= 2.29

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
LA PAZ	6.02	309.0	1	42K	1	2	58	-3				
HUANCAYO	14.24	303.7	3	5	4	5	41	14				
BOGOTA	27.02	335.7	4	58	-1	8	53	-4	6	44		
FUQUENE	27.67	337.1	5	5K	1	9	7	0	6	45		
CHINCHINA	27.96	332.9	5	7	0	9	12	0	6	46	11 51	*SS
CARACAS	30.89	352.9	5	31K	-1	9	57	0				
GRENADA	32.25	2.8	5	43K	0							
GALERAZAMBA	33.14	338.0	5	51K	0	10	32	0	7	29		
BALBOA HTS.	33.27	329.6	5	51	-1							
ST. VINCENT	33.39	3.5	5	53	0						11 24	
BARBADOS	33.48	6.5	5	57	3							
FORT FRANCE	34.94	3.6	6	5	-1	10	56	-3				
ANTIGUA	37.31	2.2	6	23	-2						11 32	
ST. KITTS	37.48	0.8	6	24	-3						11 30	
SAN JUAN	38.62	355.6	6	34	-2	11	47	-6	8	24	6 58	
SAN SALVADOR	42.38	320.9	7	8	2	12	53	6				
ARGENTINE I.	44.86	180.6	7	24	-1	13	22	0			16 21	SCS
COMITAN	46.14	320.0				13	37	-3				
MERIDA	48.50	326.3				14	6	-6			9 3	PCP
OAXACA	49.63	316.1				14	56	29			10 18	PP
VERA CRUZ	50.84	318.6				14	49	5			9 17	PCP
TACUBAYA	52.94	316.0	8	14	-11	15	12	0			10 36	PP
GUADALAJARA	56.58	313.8	8	54	4							
COLUMBIA	56.66	342.3	8	50	-1	15	59	-1				
MBOUR	57.12	56.5	8	52	-2	16	4	-2				
CHAPEL HILL	57.95	344.9	8	59	-1							
WASHINGTON	60.37	347.6	9	18	2	16	39	-8			11 37	PP
LITTLE ROCK	61.43	332.9				16	56	-4			18 18	SCS
FORDHAM	61.70	350.9	9	24	-1	17	3	0				
PALISADES	61.87	350.9	9	25	-1	17	6	1	11	18	13 26	PPP
PENNSYLVANIA	62.36	347.5	9	27	-2	17	13	2			10 3	PCP
C. GIRARDEAU	62.50	336.6	9	27A	-3	17	9	-4	11	24		
BLOOMINGTON	63.12	339.9	9	31	-3	17	17	-3	11	29		
FAYETTEVILLE	63.33	332.2	9	34A	-1	17	20	-3	11	32	18 30	SCS
CLEVELAND	63.83	344.8	9	39	1	17	30	1				
CHIHUAHUA	63.90	318.3									13 53	PP
ROLLA	63.92	335.0	9	37	-2	17	30	0	11	30	18 36	SCS
ST. LOUIS 1	63.92	336.7	9	36	-3	17	27	-3	11	32	18 35	SCS
WICHITA MTS.	64.26	328.1	9	40A	-1	17	35	1	11	35	12 5	PP
HALIFAX	64.68	359.7	9	42K	-1							
LUBBOCK	65.06	324.9	9	46	0							
BREBEUF	66.23	352.0	9	51	-2	17	57	0				
OTTAWA	66.43	350.4	9	52K	-2							
MANHATTEN	66.97	332.4	9	57	-1	18	58	52	11	48		
SHAWINIGAN	67.16	352.9	9	59	0							
DUBUQUE	67.50	338.4	10	0	-1	18	10	-2			19 4	SS
TUCSON TELE.	69.35	318.2	10	13	1				12	11	17 36	

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1961

PAGE 899

MUNSTER	94.69	35.9	12 22	1						
TRIESTE	95.66	43.4	12 26	1	22 6	0	14 29	16 21	PP	
LJUBLJANA	96.31	43.2	12 27	-1	22 14	5	14 33	16 25	PP	
JENA	96.47	37.9	12 28	-1	22 13	3	14 33	16 22	PP	
HALLE	96.91	37.5	12 32	1	22 14	1				
KASPERSKE H.	96.92	40.1	12 30	-1	22 16	3	14 35	23 7	S	
RESOLUTE	96.97	351.9	12 31	0	22 16	3		26 51		
ZAGREB	97.17	43.8	12 33	1	22 9	-5				
COLLMBERG	97.43	38.0	12 32	-1	22 21	6	14 41	16 40	PP	
PRUHONICE	97.83	39.6	12 35	0	22 19	2	14 41	16 39	PP	
BRATISLAVA	98.73	41.9	12 39	0				22 21	PKS	
COPENHAGEN	98.86	33.7	12 41K	1	22 25	3		16 48	PP	
HURBANOVO	99.32	42.4	12 36	-6						
GOTEBORG	99.41	31.8	12 43K	1						
BELGRADE	99.78	45.9						16 56	PP	
KARAPIRO	99.94	223.4	12 45	0			15 5			
ATHENS	99.95	53.3	12 49K	4	22 30	2				
RACIBORZ	100.07	40.3	12 46	1				16 54	PP	
TIMI SOARA	100.59	45.2			22 33	2		26 25	PS	
SKALNATE PL.	101.04	41.6	12 50	0						
KRAKOW	101.11	40.7	12 51	1	22 33	0		17 6		
TANANARIVE	101.76	115.3	12 59	6				17 9	PP	
SKAL STUGAN	101.81	26.3	12 55	2						
WARSAW	102.43	38.8			22 27	-12		16 18	PP	
UPPSALA	102.93	30.8	12 59	1	22 41	-1		17 18	PP	
BUCHAREST	103.52	47.5			22 46	2		17 7	PP	
LWOW	103.58	41.7	16 36	215				26 25		
HELWAN	103.69	63.0						15 11		
ISTANBUL KA.	104.79	51.4			22 49	-1		17 33	PP	
COLLEGE	105.96	333.8	13 12	777	23 43	48		17 41	PP	
TROMSOE	106.23	21.2	13 17	777				17 43		
KIRUNA	106.32	23.1			22 59	2		17 44	PP	
NURMIJARVI	106.49	31.0	17 23	777	22 57	0		17 44	PP	
HELSINKI	106.57	31.4						28 40	PKKP	
JERUSALEM	107.40	62.0	13 29	777				17 49	PP	
KSARA	108.40	60.0	13 21	777			15 29	17 57	PP	
KAJAANI	108.53	27.6	17 26	777				18 0	PP	
SODANKYLA	108.56	24.1	17 27	777				23 1	PP	
PULKOVO	109.15	32.3	17 28	777						
SIMFEROPOL	109.22	48.2	13 27	777						
APATITY	111.19	24.2						18 19	PP	
MOORLANDS	111.47	203.8	17 32	3						
MOSCOW	112.68	37.0	17 32	1						
SOTCHI	113.00	50.3			23 25	1				
TIFLIS	116.56	52.7	17 40	1						
CANBERRA	116.72	209.2	17 39	0				18 58	PP	
RIVERVIEW	116.91	211.8	16 27	-73				23 45	SKKS	
GORIS	117.55	55.3						19 4	PP	
MAKHACH-KALA	118.62	51.4	17 47	4						
BRISBANE	121.08	217.6	17 49	1	23 59	6				
TEHERAN	121.30	59.9	17 50	2				19 25	PP	
SHIRAZ	121.70	67.1	17 49A	0				21 24		
SVERDLOVSK	125.21	34.0	17 54	-2						
CHARTERS TS.	130.48	217.5	17 51	-15				21 36		
SAMARKAND	133.45	54.3	18 11	0						
QUETTA	134.23	67.4	18 11	-2			20 28	20 49	PP	
PETROPAVLOVK	134.24	325.7						20 55	PP	
TASHKENT	134.86	51.5	18 17	3						
STALINABAD	135.01	55.5	18 5	-9						
NAMANGAN	136.69	51.4						21 1	PP	
ANDIJAN	137.26	51.5	18 12	-6						
YAKUTSK	137.42	351.0	18 11	-8						
WARSAK DAM	137.89	61.5	18 14	-5						
PORT MORESBY	137.93	228.2	18 14	-6				21 4		
FRUNSE	138.27	47.8	18 14	-6						
BOMBAY	138.69	84.3						21 20		
POONA	139.59	85.1	18 16	-7						
ALMATA	139.72	46.3	18 22	-1						
LAHORE	140.49	64.9	18 22	-3						
NEW DELHI	143.22	69.3	18 31K	1				21 19		
DEHRA DUN	143.80	66.3	18 30	-1						
MADRAS	144.27	96.0	18 32	1						
Y.-SAKHLINSK	146.05	327.6	18 34	0						
VISHAKHAPTNM	148.30	89.1	18 44	7				21 22		
ULAN-BATOR	151.39	13.9	18 45	3			20 58			
LEMBANG	151.52	160.7	18 43	1				22 30	PP	
MIZUSAWA	151.91	317.0	18 54A	11				21 11		
CHATRA	152.19	71.0	18 44	1				21 9		
GUAM	152.38	260.0	18 30	-13			20 39			

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1961	PAGE 900											
VLADIVOSTOK	154.00	334.1	19	4	18							
TUKUBASAN	154.18	312.6	18	45K	-1	25	3	6			41	42 SSS
LHASA	154.99	63.3	18	49	2							
MATUSIRO	155.28	315.2	18	48	1				21	3	19	17 PKP2
CHANGCHUN	155.54	344.9	18	47	-1						22	55 PP
MEDAN	155.74	131.1	18	48	0						21	20 PP
SHILLONG	156.53	72.6	18	48	-1							
PEKING	160.40	1.3	18	55	1						23	24 PP
SIAN	164.54	25.0	18	59	1						23	41 PP
CHENGTU	164.62	45.7	18	59	1						23	45 PP
KUNMING	166.24	67.3	19	0	1						23	52 PP
NANKING	168.22	351.5	19	2	2						24	0 PP
ZO-SE	168.60	340.4	19	3	2						23	53 PP
MANILA	172.98	216.8	19	5	2							

SEPTEMBER 19 9.H 46.M 17.S EPICENTRE 6.91 -82.33 DEPTH= 0.KM

A= 0.13250 B=-0.98396 C= 0.11944 D=-0.9911 E=-0.1335
 G= 0.0159 H=-0.1184 K=-0.9928 HT= 6.9

SE= 3.03

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
BALBOA HTS.	3.42	53.2	0 56	0	1 41	3		
CHINCHINA	6.95	105.7	1 43	-3	2 56	-11		
GALERAZAMBA	7.97	60.6	2 OK	0	3 25	-7		
BOGOTA	8.53	105.0	2 7	-1	3 40	-6		
FUQUENE	8.67	99.0	2 9	-1	3 52	2		
SANTIAGO MA.	8.90	317.8	2 14	1	3 56	0		
SAN SALVADOR	9.54	315.4	2 19	-3				
COMITAN	13.35	314.9	3 15	1				7 11
CARACAS	15.64	75.7	3 41K	-3	6 49	11		
MERIDA	15.64	333.9	3 40	-4	6 52	14		4 16
OAXACA	17.32	306.8	4 6	1	7 31	14		9 4
VERA CRUZ	18.15	313.6	4 19	4				4 43 PP
SAN JUAN	19.48	52.7	4 31	0	8 15	9		
PUEBLA	19.58	309.5	4 37	4				8 37
HUANCAYO	20.08	159.7	4 35	-3	8 23	4		
TACUBAYA	20.57	308.8	4 40A	-3	8 18	-11		5 4 PP
GRENADA	20.95	74.3	4 45A	-2				
ST. VINCENT	21.64	71.6	4 54	0				
ST. KITTS	21.76	59.8	4 57	1				
BARBADOS	23.21	72.8	5 14A	4				
GUADALAJARA	24.51	306.1	5 28	5				13 43
MANZANILLO	24.56	301.5						12 3
COLUMBIA	26.99	2.4	5 46	0	10 27	5		
LA PAZ	27.17	149.0	5 44A	-3	10 28	3		
MAZATLAN	28.24	307.5						12 55
CHAPEL HILL	29.03	5.5	6 4	0				
LITTLE ROCK	29.24	342.9			11 8	9		
C. GIRARDEAU	30.98	348.8	6 19A	-3	11 35	9	6 29	
FAYETTEVILLE	31.01	341.2	6 20A	-2	11 25	-2		
CHIHUAHUA	31.15	316.8	6 27	4	11 39	10		
WICHITA MTS.	31.48	333.8	6 23	-3	11 23	-11		7 18 PP
ROLLA	32.05	345.7	6 31A	0	11 20	-23		
LUBBOCK	32.12	328.4	6 29	-3				
WASHINGTON	32.20	7.7	6 32	0	11 11	-34		
BLOOMINGTON	32.36	353.9	6 32A	-2	11 49	1		13 39
ST. LOUIS 1	32.39	348.4	6 32A	-2	11 48	0		
PENNSYLVANIA	33.98	6.1	6 47	-1	12 18	5		
CLEVELAND	34.44	1.1	6 51A	-1	12 19	-1		
MANHATTEN	34.62	340.3	6 53A	0	12 40	17		
FORDHAM	34.63	11.3	6 54	1	12 27	4		
PALISADES	34.78	11.2	6 54	-1	12 28	3		7 24 PP
DUBUQUE	36.22	349.5	7 5A	-2	12 46	-2		
TUCSON TELE.	36.59	317.5	7 11	1				
TUCSON	36.61	317.3	7 11	1	13 3	10		8 36 PP
OTTAWA	38.77	7.4	7 27	-1				
BREBEUF	39.18	9.7	7 31	-1	13 35	2		
LARAMIE	40.02	332.5	7 38	-1				9 12
HALIFAX	40.97	20.5	7 47A	1				
RAPID CITY	41.29	337.1	7 48	-1				
BOULDER CITY	41.49	318.9	7 52	1				
FLAMING GRGE	41.59	328.7	7 52	0	13 49	-20		9 24 PCP
PASADENA	42.76	314.3	8 2A	1	14 34	8		9 44 PCP

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1961							PAGE	
SALT LAKE C.	42.79	326.6	8	2	1			
EUREKA	44.33	322.2	8	14	0		10	0 PP
FRESNO	45.26	316.5	8	20	-1			
BOZEMAN	45.92	332.0	8	27	0			
VINEYARD	46.33	315.6	8	30	0			
RENO	46.76	319.8	8	33A	0			
LICK	46.81	316.2	8	34A	0			
BUTTE	46.89	331.3	8	33	-1	15	22	-3
BRANNER	47.22	316.0	8	37K	0			
BERKELEY	47.50	316.5	8	39A	0	15	35	1
SAN FRANCISCO	47.58	316.2	8	40	0		10	36 PP
PT. REYES	48.03	316.4	8	43	0			
CALISTOGA	48.11	317.2	8	44	0			
MINERAL	48.36	319.7	8	45A	-1		10	38 PP
SHASTA	49.05	319.6	8	49	-2			
HUNGRY HORSE	49.27	332.4	8	51	-2	16	8	9
CORVALLIS	51.74	323.4	9	11A	-1		10	52 PP
BANFF	51.99	334.0	9	12A	-2			
PENTICTON	52.61	330.1	9	17	-1			
VICTORIA	54.08	327.3	9	27A	-2			
ALBERNI	55.26	327.4	9	38	0			
MBOUR	64.49	77.4	10	50	9	19	25	5
RESOLUTE	68.11	356.4	11	2	-2	20	3	-1
HAWAII V.OB.	71.68	288.1	11	15	-11	21	35	49
LISBON	72.59	51.7	11	33	2			12 22
ARGENTINE I.	73.20	172.2	11	16	-19			
SERRA PILAR	73.24	49.2	11	31A	-4	20	57	-6
COIMBRA	73.28	50.2	11	36K	0	21	8	4
COLLEGE	73.51	336.1	11	35	-2	21	7	1
KIPAPA	74.22	290.2	11	51	10		11	45
TOLEDO	76.62	50.8	11	56K	1	21	45	4
ABERDEEN	78.93	33.2				22	55	49
FOLINIERE	79.47	41.8	12	11	1			14 22 PP
KEW	79.66	39.0	12	10	-1	22	13	0
BAGNERES	79.84	47.6	12	11	-1			15 11 PP
PARIS	81.44	41.7	12	23	2	22	33	1
GARCHY	81.85	43.3	12	21	-2			14 53 PP
CLERMONT-FD.	81.93	44.8	12	24K	1	22	41	4
DE BILT	83.07	38.4	12	35	6	22	51	2
BESANCON	83.84	43.2	12	34	1			
WITTEVEEN	83.95	37.6	12	39	5			
BENSBERG	84.38	39.5	12	36K	0			15 39 PP
MUNSTER	84.59	38.4	12	47	10			
ISOLA	84.80	46.3	12	40	2			
BASLE	84.90	42.9	12	40	2			23 11
STRASBOURG	84.94	41.8	12	40	1	23	7	0
ROSELEND	85.10	44.9	12	37	-2			28 53 SS
MONACO	85.11	46.7	12	38	-2			
KARLSRUHE	85.33	41.3	12	39	-2			22 57
SKAL STUGAN	85.92	26.6	12	43	-1			
STUTTGART	85.92	41.5	12	42	-2	23	12	-5
GOTEBORG	86.52	32.4	12	47	0			29 0 SS
COPENHAGEN	87.04	34.4	12	48	-1	23	21	-6
JENA	87.16	39.2	12	50	0	23	19	-10
HALLE	87.31	38.6	12	51	1	23	33	3
TROMSOE	87.48	20.1	12	53	2			
FLORENCE X.	87.85	46.3	12	52	-1	23	56	21
COLLMBERG	87.99	38.7	12	55	1	23	58	22
PADOVA	88.08	44.7	13	1K	7	23	28	-9
KIRUNA	88.44	21.7	12	59	3	23	26	-15
KASPERSKE H.	88.69	40.8	12	56A	-1			25 1 PS
ROME	89.01	48.1	12	53	-6	23	28	-18
UPPSALA	89.06	29.8	13	0	1	23	41	-5
PRUHONICE	89.17	39.9	12	59	0	23	56	9
TRIESTE	89.35	44.2	12	59	-1	23	31	-18
LJUBLJANA	89.81	43.7	13	2	0			16 35 PP
VIENNA-H.	90.66	41.4	13	7	1			16 32 PP
SODANKYLA	90.84	21.5	13	8	1			16 31 PP
RACIBORZ	91.46	39.3	13	12	2			13 15 PCP
MESSINA	91.93	51.3	12	58	-14	23	36	-36
NURMIJARVI	92.28	28.3	13	2	-12			16 50 PP
KAJAANI	92.42	24.4	13	21	7			16 59 PP
KRAKOW	92.56	39.1				23	47	-31
WARSAW	92.68	36.8				23	50	-29
TARANTO	92.80	48.9	13	19	3	23	44	-36
BELGRADE	94.15	44.1	13	27	5	24	56	25
SOUTH POLE	96.86	180.0	13	34	-1			17 31 PP
BUCHAREST	98.14	43.4						24 14

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1961

PAGE 902

ISTANBUL UN.	101.24	45.9				17	34		
ISTANBUL KA.	101.29	45.9				26	57		
HERMANUS	103.40	123.6				27	28	PS	
TUKUBASAN	121.49	320.2				30	19	PS	
MATUSIRO	122.47	321.7	18	58	0	20	26	PP	
SHIRAZ	123.42	47.7	19	1	1	20	41		
CHANGCHUN	123.65	336.2				20	41		
RIVERVIEW	123.92	233.7				20	35	PP	
BRISBANE	124.03	241.6				21	25	PP	
ULAN-BATOR	124.81	352.4				20	39		
PEKING	130.27	341.4				21	20		
CHARTERS TS.	131.15	249.4	19	16	1				
QUETTA	132.79	37.1	19	15	-3	21	46	PP	
ZO-SE	136.02	330.5				22	10		
NANKING	136.33	333.7				21	49		
SIAN	137.71	346.1	19	28	1	22	5		
NEW DELHI	139.57	28.3	19	16	-14	22	28		
CHATRA	144.96	16.5	19	38	-2				
POONA	145.49	42.6	19	42	1				
CANTON	146.48	333.2	19	43	1				
SHILLONG	147.23	9.7	19	43A	0				
KUNMING	147.79	351.4	19	48	4				
MUNDARING	149.65	212.3	19	49	2				
LEMBANG	170.12	269.8	20	19	9	21	45		

SEPTEMBER 19 18.H 25.M 26.S EPICENTRE -21.62-179.28 DEPTH= 553.KM

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G= 0.3663 H= 0.0046 K=-0.9305 HT= 4.3

DEPTH OF FOCUS= 0.082R

SE= 1.48

	DELTA DEG.	AZ. DEG.	P		O-C	S O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
NOUMEA	13.26	264.4	2	47	-5	3	59	-71				
KOUMAC	15.38	271.0	3	17K	4							
KARAPIRO	16.86	194.3	3	29	2							
WELLINGTON	20.23	193.1	3	58	-1							
GEBBIES PASS	23.02	195.1	4	22	-2	7	48	-9				
BRISBANE	26.04	251.7	4	51	0							
RIVERVIEW	28.76	238.6	5	16A	1							
CANBERRA	30.90	236.9	5	34K	1						11	1 SCP
CHARTERS TS.	32.20	266.4	5	45K	1	10	15	-5				
PORT MORESBY	34.47	285.4	6	3	0	10	50	-4				
FORT NELSON	34.98	224.8	6	9	1							
ADELAIDE	39.02	240.8	6	41K	0						11	30 SCP
DARWIN	48.42	272.5	7	54	0	14	9	-5				
SCOTT BASE	56.68	183.5	8	54K	1							
MUNDARING	57.77	245.1	9	0	0							
BYRD STATION	63.74	170.3	9	39	0							
SOUTH POLE	68.51	180.0	10	9	0							
MATUSIRO	70.41	324.7	10	20A	0							
LICK	79.88	43.1	11	13A	0							
MAWSON	80.11	200.1	11	12A	-2							
PASADENA	80.32	47.4	11	15	0							
FRESNO	80.73	44.5	11	18	1							
SHASTA	81.46	40.1	11	21A	0							
MINERAL	81.72	40.7	11	22K	0							
RENO	82.34	42.2	11	25	0							
CORVALLIS	83.35	36.6	11	30A	0							
BOULDER CITY	83.61	47.4	11	32	1							
TUCSON	84.54	52.3	11	38	2							
TUCSON TELE.	84.67	52.3	11	38	1							
EUREKA	84.75	44.0	11	37	0				13	49		
VICTORIA	85.78	33.5	11	42	0							
PENTICTON	88.25	34.4	11	52	-2							
COLLEGE	89.56	12.9	11	57	-3						12	16
FLAMING GRGE	89.81	45.4	12	1	0							
HUNGRY HORSE	90.75	37.3	12	4	-1							
WICHITA MTS.	94.80	54.7	12	23	-1							
QUETTA	120.53	293.1	17	50	1							
KIMBERLEY	124.81	205.8	17	28	-29							
BULAWAYO	130.34	215.2	18	8	0						20	37 PP
TROMSOE	130.74	351.7	18	6	-3							
SODANKYLA	131.43	347.0	18	7	-3						20	40 SKP

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1961					PAGE :
KIRUNA	132.18	350.1	18 9	-2	
SHIRAZ	132.94	290.9	18 12	-1	
KAJAANI	133.91	343.9	18 9	-6	
BROKEN HILL	134.99	219.6	18 17	0	20 53 PP
SKALSTUGAN	137.35	352.4	18 10	-11	
NURMI JARVI	137.66	342.7	18 13	-8	20 59 SKP
UPPSALA	139.96	346.8	18 18	-8	
GOTEBORG	143.04	350.0	18 27A	-5	
COPENHAGEN	144.88	348.5	18 34A	-1	
JERUSALEM	147.68	295.5	18 34A	-5	
NIEDZIKA	148.20	335.4	18 40	1	
RACIBORZ	148.43	338.3	18 45	5	
COLLMBERG	148.87	345.0	18 46A	6	21 8
HALLE	148.92	346.4			19 1
ISTANBUL UN.	149.26	315.5	18 45	4	
JENA	149.54	346.4	18 46	5	
PRUHONICE	149.66	342.2	18 48A	6	
BENSBERG	150.29	351.8	18 48A	5	
KASPERSKE H.	150.70	342.6	18 49A	6	
HELWAN	151.30	292.9	18 52	8	
STUTTGART	152.06	347.9	18 45	0	19 5
STRASBOURG	152.52	349.8	18 54	8	
FOLINIÈRE	152.89	1.7	18 46	0	
LJUBLJANA	153.15	338.4	18 47	0	18 55 PKP2
MESSINA	159.12	325.6			23 21

SEPTEMBER 19 21.H 34.M 38.S EPICENTRE -60.41 -24.36 DEPTH= 0.KM

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	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ARGENTINE I.	18.60	237.8	4	21	0							
PORT STANLEY	20.43	280.2	4	41	-1	8	23	-3				
SOUTH POLE	29.75	180.0	6	11	0						9	14 PP
BYRD STATION	32.11	199.1	6	33	2				7	28		
MAWSON	35.80	139.1	7	3K	0	12	37	-4			8	21 PP
HERMANUS	38.22	67.1									13	28 PCS
SCOTT BASE	41.81	183.5	7	55A	2	13	44	-28			9	29 PP
GRAHAMSTOWN	42.56	74.0	8	2	2							
KIMBERLEY	45.53	68.5	7	54A	-30							
CAPE HALLETT	47.18	186.0	8	37A	0	15	42	13			10	24 PP
WILKES	49.23	157.8									16	6 PS
PRETORIA	49.66	69.9	8	22	-34							
LA PAZ	53.92	304.8	9	28	0	17	6	3				
BULAWAYO	54.69	66.8	9	33	-1							
BROKEN HILL	59.62	63.5	10	8	-1							
HUANCAYO	60.93	299.6	10	18	0							
TANANARIVE	64.81	84.0	10	46A	3						11	22
BANGUI	72.77	45.4	11	32	-1				11	42		
MBOUR	74.77	7.4	11	47	3							
GEBBIES PASS	75.32	192.7	11	49	2							
FORT NELSON	76.79	173.8	11	54A	-2							
MOORLANDS	77.27	173.6	11	58A	0							
WELLINGTON	77.46	194.7	11	56	-3							
CARACAS	78.33	317.2	12	5	1						22	44 PS
TUAI	79.57	196.9	12	11	0							
KARAPIRO	80.65	195.8	12	16	-1							
MUNDARING	82.44	147.0	12	25	-1							
ONERAHI	82.93	195.3	12	29	0							
ADELAIDE	83.95	166.1	12	34K	0						15	45 PP
CANBERRA	84.46	174.5	12	37	1							
SAN JUAN	85.44	320.6	12	41	0							
RIVERVIEW	86.03	176.3	12	43	-1						23	22
MESSINA	103.58	31.3									24	3
JERUSALEM	103.95	49.2	18	26	260							
KSARA	106.01	48.8	14	18	777						18	42 PP
ROME	106.33	27.8									28	12
PALISADES	108.89	322.5									28	17 PS
SHIRAZ	109.22	63.9	17	30	777						18	4
LJUBLJANA	110.73	27.9									19	11
WICHITA MTS.	112.40	301.0	18	42	4						19	14 PP
KASPERSKE H.	113.42	26.1	19	29	49							

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1961					PAGE 904
COLLMBERG	115.35	24.9	18 44	0	19 36 PP
NEW DELHI	120.04	84.5	18 50K	-3	
BOULDER CITY	120.74	289.3	18 55	0	
PASADENA	120.83	285.5	18 57	2	
GOTEBORG	121.18	21.8	18 54	-2	
FLAMING GRGE	122.28	296.8	18 58	0	
SALT LAKE C.	123.25	294.9	19 0	1	
CHATRA	123.54	94.3	18 57	-3	
EUREKA	124.09	290.9	19 1	0	
UPPSALA	124.28	24.1	19 0	-2	
VINEYARD	124.47	284.8	19 4	2	
SHILLONG	124.80	99.4	19 2K	0	
LICK	125.06	285.0	19 5A	2	
BERKELEY	125.78	284.9	19 6A	2	
RENO	125.94	288.1	19 7	2	
NURMI JARVI	126.40	27.7	19 5A	-1	
SKALSTUGAN	126.75	19.5	19 6	0	
BOZEMAN	126.79	299.1	19 8	2	
BUTTE	127.73	298.3	19 10	2	
SHASTA	128.07	287.0	19 10	1	21 31
KUNMING	129.63	110.1			
HUNGRY HORSE	130.16	299.2	19 14	1	22 45 PKS 22 51 PP
KIRUNA	132.03	21.1	19 15A	-1	
CANTON	132.57	122.7			
SODANKYLA	132.81	24.2	19 17	-1	22 51 22 43 PP
BANFF	132.92	300.7	19 17	-1	
PENTICTON	133.33	296.4	19 18	-1	
SIAN	140.19	109.6	19 33	2	
RESOLUTE	142.46	335.7	19 31	-4	
NANKING	142.73	122.8	19 33	-3	22 51 PP 22 49 PP
ZO-SE	142.87	126.5	19 34	-2	
PEKING	148.25	111.9	19 49	4	23 21 PP
ABUYAMA	151.33	144.0	19 58K	8	
MATUSIRO	153.63	147.1	19 54A	1	43 26 PSPS
COLLEGE	154.41	304.4	19 50	-4	20 26 23 59 PP
CHANGCHUN	155.38	118.7	19 56	1	

SEPTEMBER 20 19.H 3.M 33.S EPICENTRE -3.53 151.08 DEPTH= 0.KM

A=-0.87363 B= 0.48273 C=-0.06112 D= 0.4836 E= 0.8753
G= 0.0535 H=-0.0296 K=-0.9981 HT= 7.1

SE= 2.90

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PORT MORESBY	7.02	213.6	1	48	1	3	3	-5				
CHARTERS TS.	17.12	195.6	4	2A	0	7	22	10				
KOUMAC	21.26	143.8	5	49	59							
PORT VILA	22.02	131.1	4	56	-2							
BRISBANE	23.78	176.2	5	15	0	9	35	7				
NOUMEA	23.89	142.7	5	14	-2	9	47	17				
RIVERVIEW	30.15	179.9	6	13A	-1	11	9	-4			7	15 PP
SUVA	30.47	120.5				10	57	-21			8	40
CANBERRA	31.69	183.2	6	25A	-2	11	35	-2			7	34 PP
ADELAIDE	33.32	198.7	6	39A	-3	11	55	-7				
MELBOURNE	34.59	188.5	6	51	-2	12	23	1				
MANILA	34.79	302.0	6	57	3	12	21	-4				
BAGUIO CITY	36.08	304.2	7	4	-1	12	45	0				
AFIAMALU	38.08	108.1	6	54	-28	13	15	-1			8	57 PP
ONERAHI	38.64	149.0	7	31	4							
MOORLANDS	38.90	184.6	7	29K	0							
FORT NELSON	39.37	184.3	7	31K	-2	13	35	0				
HWAL IEN	39.62	315.1	7	43	8	13	27	-12				
TUKUBASAN	40.85	346.4	7	41	-4	13	45	-12	8	5	9	22 PP
ABUYAMA	40.88	340.4	7	42A	-3							
KARAPIRO	40.90	150.0	7	44	-2						9	48
MATUSIRO	41.63	344.3	7	48A	-4	14	9	0			9	28 PP
TONGARIRO	41.89	151.2	7	53	-1							
CHATEAU	41.89	151.2	7	53	-1							
COBB RIVER	42.16	155.4	8	0	4							
TUAI	42.38	149.4	7	57	-1							
KAIMATA	42.86	157.8	8	6	4							
WELLINGTON	43.19	153.7	8	5	1	14	34	2			9	50 PP
MUNDARING	43.26	225.2	8	1K	-4	14	35	2				
LEMBANG	43.39	263.8	8	8	2	14	31	-4				

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1961										PAGE 905	
PERTH	43.52	225.4	8 34	27	14 36	-1				17 44	
DJAKARTA	44.16	264.8	8 15	3	14 39	-7				10 9	
HONG KONG	44.27	307.2	8 13	0	14 20	-27					
GEBBIES PASS	44.33	157.6	8 11	-3							
NHATRANG	44.45	291.3	8 15	0							
ZO-SE	44.70	322.6	8 16A	-1	14 47	-7					
CANTON	45.33	307.6	8 20	-2	15 7	4					
NANKING	46.83	321.5	8 33A	0	15 27	3					
VLADIVOSTOK	49.56	341.6	8 54	-1	16 7	4			10 58	PP	
Y.-SAKHLINSK	50.87	352.6	9 3	-2	16 18	-3			11 3	PP	
CHANGCHUN	52.53	336.6	9 16A	-1	16 45	2					
PEKING	53.89	327.1	9 25A	-2	16 56	-6					
SIAN	54.64	317.0	9 33A	0	17 14	2					
KUNMING	54.85	304.1	9 34	0	17 19	4					
CHENG TU	56.30	310.7	9 44	-1	17 35	1					
PETROPAVLOVK	56.70	5.5	9 46	-2	17 43	3			11 55	PP	
LANCHOW	59.12	316.1	10 4	-1	18 8	-3					
PORT BLAIR	59.95	285.5	10 44	34							
TOCKLAI	62.11	302.7	10 30	5							
MAGADAN	62.89	359.8	10 28	-2	18 59	0			12 48	PP	
ULAN-BATOR	64.13	328.6	10 28	-10	19 18	3					
SHILLONG	64.20	300.5	10 38A	-1	19 12	-4					
LHASA	66.18	304.5	10 53	1	19 42	2					
CALCUTTA	66.43	296.3	10 56	3	19 49	6			20 18	PS	
YAKUTSK	67.39	349.3	10 57	-2	19 54	-1					
IRKUTSK	68.16	331.2	11 3A	-1	20 8	4			15 43	PCS	
CHATRA	68.60	300.5	11 12A	5	20 13	4			13 46	PP	
WILKES	68.78	196.3			20 8	-3					
CAPE HALLETT	69.73	173.9	11 12	-2	20 19	-3			24 52	SS	
VISHAKHAPTM	70.04	290.2	11 18	2	20 32	6			14 2	PP	
MADRAS	72.26	284.8	11 31	2	20 55	3					
HYDERABAD	74.55	289.0	11 24	-19	20 49	-29					
SCOTT BASE	74.73	176.6	11 45A	1	21 13	-7			14 35	PP	
TIKSI	76.41	352.9	11 51	-2	21 28	-10			14 42	PP	
DEHRA DUN	77.22	302.0	11 57	-1	21 50	3			14 52	PP	
NEW DELHI	77.60	300.1	11 56K	-4	21 48	-3			24 51	PP	
POONA	79.04	289.5	12 7	-1	22 6	-1			22 41	PS	
BOMBAY	80.06	289.8	12 36	23	22 14	-3			22 36		
LAHORE	80.59	302.6	12 16	0							
SEMIPALATNSK	80.63	322.2	12 15	-1							
ALMATA	80.93	314.6	12 18	0							
COLLEGE	81.33	22.2	12 17	-3	22 27	-3					
FRUNSE	82.50	313.8	12 25	-1	22 46	4					
WARSAK DAM	83.30	304.7	12 31	1							
TASHKENT	86.15	311.7	12 45	1	23 24	5			12 48	PCP	
BYRD STATION	86.45	169.9	12 42	-4							
SOUTH POLE	86.50	180.0	12 45	-1	23 34	12					
QUETTA	86.68	300.4	12 47	0	23 26	2	12 54		16 5	PP	
BERKELEY	89.51	52.2	13 5	5	23 57	7			29 59	SS	
SHASTA	89.65	49.4	13 1	0							
LICK	89.95	52.8	13 9A	6					13 31		
VINEYARD	90.12	53.4	13 9	6							
FRESNO	91.38	53.4	13 14	5							
RENO	91.54	50.7	13 14K	4							
PENTICTON	92.19	40.9	13 11	-2							
PASADENA	92.58	56.1	13 14	-1	24 18	1			17 3	PP	
SVERDLOVSK	93.17	326.6	13 14	-3	23 49	-34					
ASHKABAD	94.30	307.6	13 29	6							
EUREKA	94.50	50.8	13 24	0					16 27		
BANFF	94.85	39.1	13 24	-1							
BOULDER CITY	95.37	54.4	13 27	0					17 18	PP	
HUNGRY HORSE	95.87	41.9	13 31	1					16 45		
BOZEMAN	98.02	44.5	13 45	6							
TUCSON	98.72	58.1	13 43	0							
SHIRAZ	99.17	299.3	13 47	2					16 46	PP	
FLAMING GRGE	99.51	49.3	13 45	-1							
RESOLUTE	99.61	14.3	13 45	-2	25 10	45			32 6	PSPS	
GORIS	103.61	309.7							14 14		
RAPID CITY	103.73	45.6	14 10	5							
SODANKYLA	105.95	340.6							18 40	PP	
MOSCOW	105.97	327.3	14 13	777	24 52	-3			18 34	PP	
KIRUNA	107.66	342.4			25 3	1			34 13	SS	
PULKOVO	108.12	332.8			25 3	-1			18 51	PP	
WICHITA MTS.	108.68	54.6	18 29	777	25 15	8			18 54	PP	
MANHATTEN	109.47	49.7							19 55	PP	
SIMFEROPOL	111.37	317.2							28 42	PS	
KSARA	112.81	305.2							19 31	PP	
DUBUQUE	112.98	45.0							29 2	PS	
ROLLA	113.34	50.1							19 36	PP	

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1961 PAGE 906

UPPSALA	113.53	336.4							35	11	SS
JERUSALEM	113.75	303.1	18	47	6				19	54	PP
C. GIRARDEAU	115.31	50.2							21	13	PP
LWOW	115.85	324.9							19	54	PP
ISTANBUL KA.	116.10	314.4	19	52	67	26	44	68	21	2	PP
WARSAW	116.31	328.3				25	39	2	19	59	PP
BUCHAREST	116.91	318.8				25	45	6	20	18	PP
BLOOMINGTON	117.02	47.4							21	13	PP
HELWAN	117.42	301.8	18	53	5						
KRAKOW	118.04	326.6							20	3	PP
COPENHAGEN	118.33	334.8							19	55	PP
BULAWAYO	118.85	244.8	18	55	4						
SOFIA	119.45	318.0	18	58	6						
BROKEN HILL	120.39	251.1	18	55	1						
COLLMBERG	120.92	330.7	19	OK	5				20	33	PP
PRUHONICE	120.95	328.8	19	0	5				30	19	PS
HERMANUS	121.07	226.0							31	37	PPS
HALLE	121.30	331.4	19	0	5	25	49	-5			
OTTAWA	121.65	37.1	19	0	4						
JENA	121.84	331.1	19	0	4	25	49	-7	20	28	PP
KASPERSCHE H.	121.97	328.5	19	0	3						
SHAWINIGAN	122.75	34.6	19	2	4						
BREBEUF	122.85	36.1	19	3	5						
LJUBLJANA	123.27	325.1	19	2	3				20	47	
BENSBERG	123.88	333.3							20	49	PP
DE BILT	123.91	335.4							20	33	PP
TRIESTE	123.94	325.0	19	4	4	26	4	1	20	49	PP
STUTTGART	124.39	330.3	19	4	3				20	48	PP
PALI SADES	125.04	40.8							37	49	SS
PADOVA	125.15	325.7				26	17	11	22	7	
STRASBOURG	125.25	330.9	19	9	6				42	43	SSS
FLORENCE X.	126.48	324.5	19	1	-4				20	53	PP
KEW	126.57	338.1	19	12	7				21	8	PP
MESSINA	126.78	316.4				26	5	-6	21	6	PP
ROME	126.84	321.9	19	9	3				21	6	PP
ROSELEND	127.41	328.2							19	13	
PARIS	127.52	334.3							21	51	
GARCHY	128.40	332.6	19	15	6				21	8	PP
FOLINIÈRE	128.79	336.2	19	15	5						
HALIFAX	128.97	31.5	19	15A	5						
CLERMONT-FD.	129.48	331.2	19	18	7				21	50	
BANGUI	132.57	272.7	19	17	0				21	44	PP
BAGNERES	132.91	330.9							21	55	PP
CHINCHINA	133.42	86.5	19	21	2				22	57	PKS
GALERAZAMBA	133.50	78.5							23	3	PKS
BOGOTA	134.96	87.0	19	28	7				23	4	PKS
FUQUENE	135.30	85.8	19	32	10				23	7	PKS
LA PAZ	136.45	118.3	19	28	4				26	55	PKS
ALICANTE	136.70	326.9	19	27	2	26	36	2	23	2	PKS
TOLEDO	137.38	331.4	19	33	7				34	23	PS
SERRA PILAR	138.34	336.8	19	27A	-1						
ALMERIA	138.88	327.1	19	36	7				22	33	PP
GRANADA	139.23	328.5	19	29A	0	26	25	-13	23	5	PP
LISBON	140.61	335.4	19	45	13						
SAN JUAN	140.73	65.1	19	38	6						
CARACAS	141.68	77.6	19	39	5				23	0	PP

SEPTEMBER 24 19.H 4.M 41.S EPICENTRE 18.45 -98.74 DEPTH= 81.KM

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DEPTH OF FOCUS= 0.008R

SE= 2.29

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
PUEBLA	0.77	41.6	0	17	0	0	31	0				
TACUBAYA	1.04	335.5	0	18A	-2	0	34	-1				
OAXACA	2.36	126.8	0	38	1							
VERA CRUZ	2.59	72.8	0	45	5	1	21	10			1	5
LEON	3.83	314.4									2	22
GUADALAJARA	4.85	298.0	1	11	-1						1	34
MANZANILLO	5.33	277.3									1	59
COMITAN	6.68	108.1	1	45	8	3	28	36				

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1961		PAGE 907									
MERIDA	8.95	72.4	2	15	7	3	43	-5			
SAN SALVADOR	10.32	116.0	2	25	-2	5	33	72			
SANTIAGO MA.	11.04	115.0	2	34	-2	5	49	70			
CHIHUAHUA	12.16	327.8	2	39	-12				5	25	
LUBBOCK	15.32	350.1	3	33	1						
WICHITA MTS.	16.21	0.5	3	43	0	6	52	12	5	8	
TUCSON	17.53	323.9	4	1	1						
TUCSON TELE.	17.54	324.3	4	2	2						
FAYETTEVILLE	18.03	12.0	4	6K	0				4	26	
ROLLA	20.28	15.8	4	31	0	8	19	10	4	47	7 34 *SS
C. GIRARDEAU	20.47	21.4	4	27K	-6	8	16	4	4	43	
LAWRENCE	20.67	7.7	4	34	-1	8	29	13			
MANHATTEN	20.76	4.7	4	35K	-2	8	27	9	4	51	
BALBOA HTS.	20.87	114.3	4	32	-5						
COLUMBIA	22.14	42.1	4	50	1	8	36	-7			
BOULDER CITY	22.52	324.1	4	55	2						
BLOOMINGTON	23.24	24.7	5	1	1	9	9	7	5	35	
PASADENA	23.34	315.9	5	2K	1	9	19	15	5	15	8 46 PCP
LARAMIE	23.53	347.0	5	4	1						12 48
GALERAZAMBA	23.94	105.3							5	34	9 55 SS
FLAMING GRGE	24.20	340.0	5	10	1	9	27	8			
CHAPEL HILL	24.61	41.1	5	14	1						
SALT LAKE C.	24.94	335.9	5	17	0						
DUBUQUE	24.94	14.2	5	17K	1	9	48	17			
EUREKA	25.73	328.1	5	24	0				5	38	6 13 PP
RAPID CITY	25.83	352.6	5	25	0						
FRESNO	26.00	318.8	5	26	0						
MORGANTOWN	26.64	33.7	5	32A	0				5	54	
VINEYARD	26.99	317.1	5	30	-6						
CLEVELAND	27.27	29.0	5	36	-2						
PARAI SO	27.40	315.3	5	33	-6						
LICK	27.51	317.8	5	41K	1						8 52
WASHINGTON	27.										
BOGOTA	27.75	116.7	5	43	1	10	29	12	6	8	7 0 PPP
RENO	27.82	323.4	5	44K	1						
BERKELEY	28.22	318.1	5	49	2						
PENNSYLVANIA	28.59	34.4	5	50	0	10	36	5			
PT. REYES	28.74	317.9	5	51	0						
BOZEMAN	29.01	342.0	5	54	0						
MINERAL	29.38	322.8	5	57K	0						
BUTTE	29.79	340.4	6	1	0						9 3 PCP
SHASTA	30.07	322.5	6	1	-2						
SAN JUAN	30.93	84.9	6	9	-2						8 5
PALI SADES	30.96	38.2	6	9	-2	11	3	-5	6	33	7 17 PP
CARACAS	31.76	100.0	6	21	3	11	21	0			
OTTAWA	32.99	30.4	6	27K	-2						
CORVALLIS	33.17	327.1	6	30A	0						
BREBEUF	34.10	32.2	6	36K	-2						
ST. KITTS	34.26	86.1	6	38	-2						
PENTICTON	35.09	336.1	6	45K	-2						
SHAWINIGAN	35.26	31.6	6	47K	-1						
BANFF	35.26	341.6	6	48K	0						
VICTORIA	36.06	331.9	6	54K	-1						
GRENADA	36.22	94.7	6	56	0						
ST. VINCENT	36.39	92.7	6	55	-3						
TRINIDAD	36.91	96.8	7	0	-2						
HUANCAYO	38.10	141.0	7	13	1				7	39	
LA PAZ	45.98	137.2	8	15	-1	14	59	5			
RESOLUTE	56.29	1.2	9	32	-2						
COLLEGE	56.64	337.3	9	35	-1						11 41 PP
COIMBRA	78.57	51.4	11	57	3				12	19	
DURHAM	79.18	35.8	11	53A	-4	21	53	4			20 50
KEW	80.88	38.8	12	7	1						
FOLINIERE	81.63	41.4	12	11	1						12 29
TOLEDO	81.89	50.8	12	12	1						12 33
TROMSOE	81.94	18.3	12	13	1						
SKALSTUGAN	82.59	24.9	12	16K	1						
KIRUNA	83.37	19.5	12	19K	0						
PARIS	83.47	40.7	12	20	1						
BAGNERES	83.89	46.7	12	22K	0				12	42	13 37
KEVO	84.15	16.5	12	24	1						13 8
GARCHY	84.37	42.0	12	24	0						12 45
CLERMONT-FD.	84.95	43.4	12	28K	1						12 50
GOTEBORG	85.12	30.3	12	29	1						
MUNSTER	85.32	36.6	12	30	1						
BENSBERG	85.47	37.6	12	31K	2						12 53
SODANKYLA	85.56	18.5	12	34	4						
BESANCON	86.22	41.3	12	33	0						13 16

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1961		PAGE 908										
UPPSALA	86.64	26.9	12	34	-1							
STRASBOURG	86.79	39.6	12	36	0				13	14		
BASLE	87.11	40.6	12	36	-1							
STUTT GART	87.56	39.0	12	40	1	13	2					
HALLE	87.95	35.8	12	42	1							
JENA	88.00	36.4	12	41	-1			13	3	15	55	
KAJAANI	88.01	20.7	12	43	1							
ISOLA	88.13	43.8	12	43	1							
MONACO	88.57	44.1	12	45	1							
COLLMBERG	88.62	35.7	12	45	0			13	7	16	13 PP	
NURMIJARVI	89.15	24.4	12	46K	-1					16	15 PP	
KASPERSKE-H.	89.98	37.4	12	51K	0							
PRUHONICE	90.12	36.4	12	53K	1					13	15	
FLORENCE X.	91.04	42.9	12	53	-3					13	35	
TRIESTE	91.75	40.4	13	1	2			13	23			
VIENNA-H.	92.02	37.3	13	2	1					13	23	
LJUBLJANA	92.03	39.8	13	1K	0					13	23	
BRATISLAVA	92.48	37.1	13	4	1							
SKALNATE PL.	93.70	35.1	13	10	2							
BYRD STATION	98.91	183.6				23	29	-32			18	51
SHIRAZ	124.73	30.6	18	51K	1	23	29	-135			20	4
MAWSON	129.48	171.0	18	58K	-1				19	14		
QUETTA	129.73	16.2	19	2K	3						22	21 PKS
NEW DELHI	133.09	4.9	19	3K	-3						22	32
SHILLONG	135.05	346.4	19	6	-3							
TANANARIVE	148.09	96.3	19	35	2						20	38
LEMBANG	151.85	290.8	19	46A	8						20	38
MEDAN	152.18	320.2	19	49A	10							

SEPTEMBER 24 21.H 40.M 58.S EPICENTRE 33.73 141.43 DEPTH= 49.KM

A=-0.65165 B= 0.51956 C= 0.55264 D= 0.6234 E= 0.7819
G=-0.4321 H= 0.3445 K=-0.8334 HT= 0.6

DEPTH OF FOCUS= 0.003R

SE= 2.43

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
HATIDYOZIMA	1.51	246.0	0	25K	-1	0	44	-1				
MERA	1.78	312.3	0	30	1	0	51	0				
OSIMA	1.99	302.0	0	31	-1	1	2	6				
TYOSI	2.05	346.6	0	33A	0	0	55	-3				
YOKOHAMA	2.25	319.6	0	35K	-1	1	4	1				
AJIRO	2.34	305.0	0	35K	-2	1	4	-1				
TOKYO C.M.O.	2.39	325.0	0	38	0							
HONGO	2.41	325.7	0	36	-2						1	9
MISIMA	2.48	304.8	0	36	-3	1	13	4				
KAKIOKA	2.70	337.9	0	42	0	1	9	-5				
TUKUBASAN	2.72	336.6	0	41K	-2							
MITO	2.76	343.6	0	43	0	1	14	-2				
SHIZUOKA	2.80	297.1	0	44K	0	1	26	9				
OMAESAKI	2.80	289.0	0	45	1	1	19	2				
HUNATU	2.82	309.6	0	45	1	1	4	-13				
KUMAGAYA	2.95	325.7	0	46	0	1	23	3				
TITIBU	2.97	319.9	0	49	3	1	23	2				
KOHU	3.06	310.1	0	48	1	1	24	1				
UTUNOMIYA	3.09	336.0	0	47	-1	1	27	3				
ONAHAMA	3.25	352.4	0	49A	-1	1	24	-4				
MAEBASI	3.30	324.6	0	48	-3	1	36	7				
TORISIMA	3.38	196.9	0	49	-3	1	31	0				
IIDA	3.47	302.0	0	54K	1	1	50	16				
OIWAKE	3.51	318.5	0	56	2	1	37	2				
SHIRAKAWA	3.53	344.0	0	52	-2	1	33	-2				
MATUMOTO	3.80	312.5	1	0	2	1	45	3				
MATUSIRO	3.85	317.6	0	58K	-1	1	52	9				
NAGANO	3.95	318.9	1	3	3	1	27	-19				
NAGOYA	3.96	292.6	1	0	0	1	53	7				
HUKUSIMA	4.09	349.2	1	0	-2	1	48	-1				
TU	4.19	284.8	1	8	5							
GIHU	4.20	294.7	1	5	2	2	5	13				
TAKAYAMA	4.20	306.3	1	5	2	2	3	11				
TAKADA	4.25	323.2	1	3	-1	1	57	4				
OWASE	4.37	275.9	1	6	0							
HIKONE	4.55	291.2	1	11	3	2	10	9				
SENDAI	4.55	354.7	1	7A	-1	1	56	-5				

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1961										PAGE 909	
TOYAMA	4.56	311.7	1 10	1	1 43	-18					
YAMAGATA	4.60	349.3	1 7A	-2	1 59	-3					
NIIGATA	4.61	335.8	1 11	2	2 0	-2					
ISINOMAKI	4.69	358.9	1 8A	-2	2 1	-3					
SIOMISAKI	4.74	268.2	1 10	-1	1 43	-22					
NARA	4.74	283.1	0 54	-17							
TSURUGA	4.82	295.0	1 13	1							
HUKUI	4.86	299.9	1 13	0	1 58	-11					
OSAKA	4.98	282.3	1 14	0	2 9	-2				2 56	
ABUYAMA	4.99	284.9	1 13K	-1							
AIKAWA	5.00	329.8	1 15	0	2 5	-7					
WAZIMA	5.19	315.9	1 19	2							
WAKAYAMA	5.23	277.2	1 17	-1	2 5	-13					
KOBE	5.27	282.1	1 14	-4							
SAKATA	5.32	346.4	1 19	0							
MIZUSAWA	5.40	357.5	1 19	-1	2 19	-3					
SUMOTO	5.45	278.3	1 23	2	2 24	1				4 17	
MORIOKA	5.97	358.0	1 29	1	2 31	-5					
AKITA	6.08	350.2	1 38	8	2 56	17					
TAKAMATU	6.16	277.6	1 31	0							
TSURUGISAN	6.18	273.2	1 30	-1							
KOTI	6.60	270.7	1 38	1	2 53	1					
SAIGO	7.10	292.6	1 25	-19	2 29	-35				1 51	
AOMORI	7.10	356.0	1 43	-1	2 58	-6					
SIMIDU	7.15	264.7	1 43	-2	3 17	11					
MATUYAMA	7.21	273.3	1 47	2	3 14	7					
HIROSHIMA	7.50	277.4	1 49	-1	3 21	7					
HAKODATE	8.09	356.4	1 55	-3	3 30	1					
OOITA	8.21	269.3	2 7	8						5 9	
MORI	8.39	355.6	2 0	-2							
URAKAWA	8.48	6.8	2 1	-2	3 32	-6					
MURORAN	8.59	357.7	2 6	1							
HIROO	8.67	9.3	2 1	-5	3 34	-9					
TOMAKOMAI	8.89	0.7	2 12	3							
KUMAMOTO	9.03	267.2	2 12	1	3 55	3					
SUTTSU	9.11	354.4								3 42	
HUKUOKA	9.22	272.1	2 13	0	4 3	6					
OBHIRO	9.28	8.1	2 11	-3							
SAPPORO	9.33	359.6	2 15	0	4 3	4					
KAGOSIMA	9.43	259.8	2 22	6	4 23	21				3 51	
KUSIRO	9.53	13.3	2 13	-4	3 53	-11					
YAKUSIMA	9.83	253.6	2 23	1	4 24	12					
NEMURO	10.12	17.5	2 20	-6	4 5	-14					
TOMIE	10.67	267.5	2 37	4							
WAKKANAI	11.68	0.9								6 19	
VLADIVOSTOK	11.98	324.3	2 51	0	4 52	-12					
Y.-SAKHLINSK	13.31	3.8	3 4	-4							
UGLEGORSK	15.35	1.6			6 45	21					
CHANGCHUN	16.09	313.5	3 45	1	6 50	9					
ZO-SE	17.30	266.8	4 OK	0	7 17	8					
NANKING	19.09	271.3	4 18	-3	7 50	1					
PEKING	21.13	294.6	4 40	-3	8 32	2				5 4	
PETROPAVLOVK	22.88	27.4	5 2	2	9 10	8					
BAGUIO CITY	25.48	232.6	5 20	-5	10 43	56					
MANILA	26.45	229.1	5 30	-4	10 10	7					
HONG KONG	26.55	251.7	6 11	36	9 52	-12					
SIAN	26.91	280.3	5 37	-2	10 16	6					
YAKUTSK	29.28	348.7	5 59	-1							
LANCHOW	30.81	285.1	6 10	-3							
CHENG TU	31.71	274.9	6 19	-2	11 26	0					
IRKUTSK	32.39	316.2	6 30	3							
KUNMING	34.62	266.0	6 47	0	12 20	8				8 5 PP	
LHASA	42.74	278.8	7 54	0	9 36	PP					
PORT MORESBY	43.23	171.8	7 59	1	14 11	-10					
SHILLONG	43.49	272.8	8 1A	1							
CHITTAGONG	44.85	268.7	8 8	-3	14 36	-9					
CHATRA	46.92	276.7	8 26A	-2							
MEDAN	49.83	242.5	8 49	-1							
LEMBANG	51.52	224.9	9 OK	-3							
COLLEGE	51.90	30.8	9 7	1	16 29	5					
DEHRA DUN	53.10	284.8	9 39	24	16 39	-1					
CHARTERS TS.	53.71	174.4	9 21	2							
ANDIJAN	54.16	298.9	9 23	0	16 59	5					
NEW DELHI	54.44	283.2	9 19A	-6	16 51	-7				16 59 PS	
NAMANGAN	54.60	299.4	9 28	2	17 2	2					
LAHORE	55.63	287.7	9 32	-1							
TASHKENT	56.23	300.4	9 40	2	17 24	2					
WARSAK DAM	56.93	291.4	9 42	-1							

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1961		PAGE 910									
STALINABAD	57.47	297.4	9 47	1	17 42	4					
SVERDLOVSK	57.67	320.0	9 47K	-1							
SAMARKAND	58.41	299.2	9 53	0	17 50	-1					
POONA	61.57	274.1	10 12	-3							
BRISBANE	61.73	168.5	10 13	-3	18 37	4					
QUETTA	62.00	289.1	10 16	-2	18 36	-1	10 40		12 42	PP	
BOMBAY	62.25	275.0	10 17	-2	18 36	-4			19 4	PPS	
AFIAMALU	65.03	128.7	10 38	1							
APATI TY	65.71	336.4	10 41	-1							
RESOLUTE	65.80	14.0	10 42	0							
KEVO	66.54	339.8	10 47	0							
SODANKYLA	68.02	337.7	10 55	-1							
ADELAIDE-	68.38	182.4	10 57K	-2							
VICTORIA	68.71	45.3	11 0	-1							
TROMSOE	68.85	341.5	11 0	-1							
CANBERRA	69.05	173.4	11 2	-1							
KAJAANI	69.57	334.6	11 5	-1							
KIRUNA	69.61	339.7	11 6	0	20 19	10					
MOSCOW	69.93	324.2	11 7A	-1	20 15	2					
MAKHACH-KALA	70.53	309.0			20 28	8					
PENTICTON	70.54	43.3	11 11K	-1							
CORVALLIS	70.61	49.0	11 9	-3							
PULKOVO	71.05	330.1	11 15	0	20 32	6					
TEHERAN	71.29	300.8	11 16	0	20 35	6					
BANFF	71.87	40.2	11 19	-1							
NURMI JARVI	72.87	332.5	11 25A	-1							
TIFLIS	72.88	308.9	11 26	0	20 50	3					
HELSINKI	72.97	332.1	11 29	3							
GORIS	72.98	306.3	11 26	0							
SHASTA	73.09	52.2	11 28	1							
SHIRAZ	73.40	294.7	11 28	-1	21 54	61			14 4	PP	
MINERAL	73.79	52.2	11 31K	0							
BERKELEY	74.61	54.7	11 36	0							
SKALSTUGAN	75.00	339.0	11 38	0							
SOTCHI	75.13	312.6	11 39	0	21 13	1					
LICK	75.30	54.9	11 40K	0					12 2		
PARAISO	75.32	56.1	11 45	5							
RENO	75.39	52.2	11 42K	2							
VINEYARD	75.79	55.3	11 42	-1							
UPPSALA	75.94	334.4	11 42	-1	21 21	0			11 59	PCP	
BUTTE	76.33	43.6	11 47	1							
PRIEST	76.60	55.5	11 33	-14							
FRESNO	76.86	54.6	11 50	1							
BOZEMAN	77.40	43.3	11 53	1							
SIMFEROPOL	77.70	316.1	11 54	1	21 44	4					
EUREKA	77.92	50.6	11 56	1					12 37		
PASADENA	79.39	56.1	12 2	-1	22 8	10			27 32	SS	
GOTEBORG	79.52	335.1	12 3	0							
SALT LAKE C.	79.78	47.7	12 14	9							
BOULDER CITY	80.63	53.0	12 10	1							
COPENHAGEN	80.88	333.5	12 8	-3	22 32	18					
FLAMING GRGE	81.18	46.4	11 43	-29							
KRAKOW	81.85	326.3	12 12	-4					22 37		
SKALNATE PL.	82.31	325.5	12 19	1					12 23	PCP	
RACIBORZ	82.62	327.1	12 20	0				12 36	13 12		
RAPID CITY	82.77	41.0	12 21	1							
KSARA	83.10	306.1	12 23	1				12 42	15 33	PP	
LARAMIE	83.21	44.3	12 23	0							
COLLMBERG	83.98	330.4	12 26A	0					15 43	PP	
HALLE	84.25	331.0	12 27	-1					15 43	PP	
PRUHONICE	84.31	328.7	12 28A	0	22 55	7			15 46	PP	
BRATISLAVA	84.50	326.3	12 32	3					12 45	PCP	
JERUSALEM	84.75	304.8	12 30A	0							
VIENNA-H.	84.78	326.7	12 31	1					12 59		
JENA	84.84	330.8	12 30	-1	22 50	-4	12 58		15 51	PP	
SOFIA	85.18	319.3	12 34	2				13 7			
WITTEVEEN	85.24	334.4	12 31	-2							
BELGRADE	85.25	322.2	12 27K	-6					23 6	SCS	
KASPERSKE H.	85.37	328.6	12 33A	0							
TUCSON	85.51	54.1	12 35	1							
TUCSON TELE.	85.53	53.9	12 35	1							
MUNSTER	85.57	333.4	12 34	0							
DURHAM	86.29	339.6	12 47A	9	23 8	0	13 3				
DE BILT	86.36	334.7			23 22	14					
BENSBERG	86.55	333.0	12 39	0					13 33		
LJUBLJANA	87.25	326.1	12 42	-1					16 6	PP	
STUTTGART	87.49	330.6	12 44	5	23 22	3					
TRIESTE	87.91	326.3	12 49	3	23 38	15			24 43	SP	
STRASBOURG	88.22	331.3	13 2	15					23 32		

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1961

PAGE 911

KEW	88.75	337.2	12 52	2				
MANHATTEN	89.72	41.2	12 55	1				
BESANCON	90.01	331.5	12 55	-1				
DUBUQUE	90.36	35.7	13 4	7				
FLORENCE X.	90.49	326.4	13 1A	3	23 59	12		
GARCHY	91.11	333.1	13 0	-1				13 59
FOLINIERE	91.12	335.9	13 4	3				
ROME	91.35	324.5			24 2	8		30 12 SS
WICHITA MTS.	91.70	45.6	13 4	0	23 47	-10		16 40 PP
MONACO	92.24	328.5	13 4	-2				
ROLLA	93.19	39.5	13 12K	2				
FAYETTEVILLE	93.27	42.0	13 11	0				13 44 *SP
ST. LOUIS I	93.51	38.0	13 14	2				
BLOOMINGTON	94.94	35.4						26 0 PS
BREBEUF	94.99	23.9	13 20	1				
PALISADES	98.81	26.3			23 50	-19		17 48 PP
TOLEDO	100.11	333.7						17 37 PP
SCOTT BASE	112.37	174.4						19 15 PP
MAWSON	116.56	204.8	18 39	0				19 44 PP
SOUTH POLE	123.55	180.0	18 52	0				
BYRD STATION	124.54	167.9	18 54	0				20 40 PP
HUANCAYO	140.15	66.0	19 18	-6				
ARGENTINE I.	144.83	161.5	19 31	-1				
LA PAZ	148.37	64.5	19 44	6				

SEPTEMBER 25 2.H 27.M 13.S EPICENTRE 60.33-152.94 DEPTH= 117.KM

A=-0.44300 B=-0.22632 C= 0.86749 D=-0.4550 E= 0.8905
G=-0.7725 H=-0.3947 K=-0.4975 HT= -9.0

DEPTH OF FOCUS= 0.013R

SE= 2.07

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
COLLEGE	5.13	25.2	1	16	0	2	11	-3				
VICTORIA	20.64	111.7	4	29K	-3							
PENTICTON	21.88	105.3	4	44K	0							
BANFF	22.66	97.1	4	52	0							
CORVALLIS	23.68	118.4	5	2	1							
RESOLUTE	25.00	32.3	5	15	1						12 14	
HUNGRY HORSE	25.24	100.8	4	17	-59				4 40		4 53	*SP
SHASTA	27.23	122.4	5	35K	0							
BUTTE	27.59	102.9	5	37	-1				6 0			
MINERAL	27.85	121.7	5	40K	0						6 20	
RENO	29.29	120.2	5	55K	2							
BERKELEY	29.67	125.3	5	56	0							
LICK	30.38	125.0	6	3K	0							
PARAISO	30.96	127.0	6	7	-1							
VINEYARD	30.99	125.3	6	9	1							
EUREKA	31.02	115.4	6	8	0				6 32		7 11	PP
FRESNO	31.62	123.2	6	14	0							
SALT LAKE C.	31.89	109.1	6	16	0							
FLAMING GRGE	32.93	106.2	5	54	-31				6 18		12 10	SCP
RAPID CITY	33.58	96.1	6	30	-1							
BOULDER CITY	34.42	117.7	6	37	-1							
LARAMIE	34.48	101.8	6	39	1						7 1	
PASADENA	34.55	123.5	6	39	0						7 15	
TUCSON TELE.	39.31	116.1	7	20	1				7 45		13 4	SCP
TUCSON	39.34	116.3	7	20	1				7 44			
MANHATTEN	40.52	95.3	7	29	0	14 21	53		7 53			
DUBUQUE	40.95	86.8	7	35A	3				7 57			
WICHITA MTS.	43.06	101.4	7	49	0				8 14		13 18	SCP
ROLLA	43.85	92.3	7	56	0				8 21			
ST. LOUIS I	44.10	90.2	7	58	0				8 22			
FAYETTEVILLE	44.13	96.0	7	58A	0				8 22			
C. GIRARDEAU	45.48	90.7	8	3	-6				8 26			
LITTLE ROCK	46.08	95.4	8	10	-4				8 34			
OTTAWA	46.12	72.4	8	14	0							
SHAWINIGAN	46.66	69.2	8	27	9							
BREBEUF	47.04	70.8	8	21	0						8 41	
MORGANTOWN	48.43	80.8	8	32A	0						8 56	
PENNSYLVANIA	48.55	78.1							8 59			
MATUSIRO	48.79	273.3	8	34	-1							
CHANGCHUN	49.44	289.5	8	39	-1							

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1961 PAGE 912

KEVO	50.20	0.0	8 52	7					
PALISADES	50.31	74.9	8 45	-1	16 17	29	9 11	11 41	PPP
WASHINGTON	50.41	79.1	9 3	16				25 51	
KIRUNA	52.05	3.2	8 58	-1					
HALIFAX	52.31	64.5	9 2	1					
COLUMBIA	52.32	86.2	9 2	1			9 25		
SODANKYLA	52.60	0.2	9 3	-1			9 29		
ULAN-BATOR	54.35	305.4	9 39	23					
TACUBAYA	55.66	112.8						10 21	
SKALSTUGAN	55.90	7.9	9 26A	-2					
PEKING	56.65	293.2	9 33	0					
NURMI JARVI	59.47	1.4	9 52	-1				10 16	
HELSINKI	59.82	1.2	9 51	-4					
UPPSALA	59.93	5.5	9 55	-1			10 29		
ZO-SE	61.54	283.3	10 7	0					
GOTEBORG	61.71	9.1	10 7	-1			10 41		
NANKING	61.91	285.8	10 8	-1					
SIAN	64.68	294.9	10 26	-1					
LANCHOW	65.42	299.8	10 33K	1					
HALLE	67.86	10.1	10 49	2				11 23	
BENSBERG	67.91	13.4	10 48	0				11 21	
COLLMBERG	68.14	9.5	10 49A	0				13 16	PP
JENA	68.39	10.5	10 50	-1			11 26		
FOLNIERE	68.98	19.1	10 54	0					
PARIS	69.40	17.1	10 57	0					
PRUHONICE	69.58	8.6	10 58A	0			11 33		
CHENG TU	69.92	296.6	10 59K	-1					
STUTTGART	70.30	12.4	11 3	1			11 37		
STRASBOURG	70.32	13.5	11 3	1					
KASPERSKE H.	70.35	9.4	11 2A	-1					
GARCHY	70.98	17.0	11 6	0				11 42	
SAN JUAN	72.66	83.4	11 43	27					
LJUBLJANA	73.48	9.1	11 21	0					
I SOLA	74.56	14.8	11 28	1					
MONACO	75.06	14.6	11 30	0					
KUNMING	75.25	294.7	11 31	0					
LHASA	76.30	306.4	11 40A	3					
TOLEDO	76.92	24.1	11 42	1			12 6		
CARACAS	78.98	88.2	11 52	0				13 17	
SHILLONG	79.56	303.8	11 54A	-1					
CHATRA	80.33	308.2	12 1K	2					
NEW DELHI	82.39	317.1	12 5A	-5					
QUETTA	84.07	326.1	12 19	1					
SHIRAZ	87.94	338.0	12 38	1				13 7	
CHARTERS TS.	93.91	235.3	13 9	4					
BULAWAYO	139.83	357.7	19 10	-4					
SCOTT BASE	140.12	192.3	19 8	-7				22 40	SKP
KIMBERLEY	148.38	3.8	19 29	0					

SEPTEMBER 27 6.H 34.M 3.S EPICENTRE -17.55-178.64 DEPTH= 524.KM

A=-0.95378 B=-0.02267 C=-0.29964 D=-0.0238 E= 0.9997
G= 0.2996 H= 0.0071 K=-0.9541 HT= 5.2

DEPTH OF FOCUS= 0.078R

SE= 1.44

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
AFIAMALU	7.53	62.3	1	53K	-1	3	20	-4				
RAOUL ISLAND	11.67	176.9	2	37	1							
PORT VILA	12.44	267.2	2	45A	1	5	2	6				
NOUMEA	14.80	248.9	3	9K	1	5	45	5				
KOUMAC	16.42	256.8	3	25	1	6	14	5				
ONERAHI	19.18	197.5	3	55	4	7	4	8				
KARAPIRO	20.94	193.0	4	9	2							
TUAI	21.49	189.0	4	10	-2							
CHATEAU	22.16	192.1	4	16	-2							
HONIARA	22.31	288.4	4	19	-1						4 58	
WELLINGTON	24.32	192.1	4	36	-2	8	20	0			14 35	SCS
COBB RIVER	24.60	195.8	4	40	0	8	21	-4				
KAIMATA	26.30	196.7	4	54	-1	8	46	-6				
GEBBIES PASS	27.09	194.0	5	1	-1	8	59	-5			14 47	SCS
BRISBANE	28.11	244.5	5	10	-1	9	15	-5				
RABAUL	31.52	291.5	5	39A	-2						10 9	
RIVERVIEW	31.53	233.2	5	41K	0	10	11	-2	7 11		7 13	PP

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1961

PAGE 913

CHARTERS TS.	33.29	260.0	5 57	2	10 36	-4			
CANBERRA	33.75	232.0	6 0K	1	10 45	-2		7 36	PP
PORT MORESBY	34.19	279.2	6 4K	1	10 53	-1	7 34	11 20	SCP
MOORLANDS	38.21	222.2	6 36A	0				11 36	PCP
FORT NELSON	38.35	221.5	6 38A	1	11 52	-4			
ADELAIDE	41.64	236.9	7 4K	0	12 40	-3		8 53	PP
HONOLULU	43.54	28.4	7 20	1					
KIPAPA	43.68	28.4	7 20	0					
GUAM	47.50	308.1	7 49	0				12 13	SCP
CAPE HALLETT	55.15	184.1	8 46	1	15 55	7		17 39	SCS
MUNDARING	60.09	242.8	9 17K	-1	16 45	-6			
SCOTT BASE	60.76	183.5	9 23A	0	17 1	2	11 22	12 32	PP
WILKES	66.39	204.6			18 5	-2			
MATUSIRO	67.49	323.4	10 4K	-1	18 19	-1	11 57	19 19	SCS
MANILA	67.52	294.5	10 4	-2			12 11		
BYRD STATION	67.64	170.7	10 6	0	18 10	-12			
ABUYAMA	67.89	320.5	10 7K	-1					
LEMBANG	72.50	268.2	10 36K	1	19 15	-2	12 29	13 29	PP
SOUTH POLE	72.56	180.0	10 36	1	19 8	-10			
PETROPAVLOVK	72.97	345.9	10 36K	-2			12 31		
Y.-SAKHLINSK	73.06	333.5	10 37	-1			12 31		
MIRNY	73.41	204.7	10 40K	0					
DJAKARTA	73.44	268.7	10 37K	-3	19 19	-8	12 27	13 29	PP
ZO-SE	75.35	309.7	10 50K	-1	19 48	0	12 47	20 6	SKS
PARAISO	75.46	43.9	10 56	4					
VLADIVOSTOK	75.52	324.9	10 53K	1	19 49	-1			
PT. REYES	76.14	42.2	10 54	-1					
BRANNER	76.21	43.1	10 56K	0					
SAN FRANCISCO	76.23	42.7	10 56	0					
VINEYARD	76.35	44.0	10 57	0					
BERKELEY	76.41	42.7	10 57A	0	19 57	-2	12 51	13 47	PP
LICK	76.51	43.4	10 58A	1			12 54		
UKIAH	76.54	41.2	10 58	0					
HONG KONG	76.73	298.7	11 0K	1	20 5	2	12 55	13 55	PP
NHATRANG	77.12	287.3	11 1	0				13 59	PP
PASADENA	77.14	47.7	11 0A	-1	20 5	-2	12 56	13 55	*SP
FRESNO	77.42	44.8	11 3	1				12 59	
NANKING	77.60	309.5	11 4K	1	20 15	3	13 1	20 25	SKS
CANTON	77.76	299.1	11 3K	-1	20 12	-2	12 59	13 57	*SP
SHASTA	77.97	40.3	11 5	0				13 2	
MINERAL	78.26	40.9	11 7A	0				13 4	PP
RENO	78.94	42.4	10 58A	-12	20 15	-11	12 55	13 13	PP
MAGADAN	80.76	344.8	11 19	-1					
EUREKA	81.41	44.1	11 23	0	20 52	1	13 21	36 32	PKPPKP
TUCSON	81.59	52.5	11 25	1			13 23	40 36	SKPPKP
VICTORIA	82.07	33.5	11 26	-1					
PEKING	83.37	315.4	11 33K	0	21 11	1	13 31	21 2	SKS
MEDAN	84.10	275.6	11 37K	0	21 9	-8		12 21	
MAWSON	84.12	199.8	11 37K	0	21 14	-3	13 44	15 5	PP
PENTICTON	84.56	34.3	11 38A	-1					
SALT LAKE C.	84.80	44.5	11 41	1				40 20	SKPPKP
COLLEGE	85.47	12.7	11 41	-2	21 26	-4	13 41	25 1	*SS
SIAN	85.95	307.7	11 47	1	21 41	6	13 46	21 21	SKS
TACUBAYA	86.21	68.4	11 48K	1	21 46	9			
FLAMING GRGE	86.53	45.2	11 48	0	21 26	-14	13 45	36 16	PKPPKP
BUTTE	86.86	39.6	11 47	-3			13 50		
HUNGRY HORSE	87.15	37.1	11 50	-1			13 50	29 39	PKKP
KUNMING	87.47	297.2	11 54K	1	21 52	3	13 56	21 29	SKS
BOZEMAN	87.63	40.5	12 54	60			14 54		
BANFF	87.77	34.2	11 54A	0					
CHENG TU	88.40	302.7	11 58K	1	22 0	3	13 57	21 34	SKS
YAKUTSK	89.14	338.3	12 6	5					
LARAMIE	89.29	46.1	12 2	1				14 1	
LANCHOW	90.49	307.7	12 8K	1	22 18	2	14 8	15 4	*SP
WICHITA MTS.	91.95	54.3	12 13A	-1	22 34	6	14 15	24 54	PS
MANHATTEN	94.94	50.6	12 29	2	22 13	-41	14 29		
TIKSI	95.74	345.4	12 29A	-2					
FAYETTEVILLE	95.79	54.1	12 31	0			14 34		
SHILLONG	96.95	294.5	12 35K	-1					
ROLLA	98.07	52.9			22 26	-2			
LHASA	98.75	293.3	12 45K	0	22 30	-2	14 46	16 55	PP
C. GIRARDEAU	99.73	54.0	12 49	0	22 31	-5	14 50		
CHINCHINA	103.88	89.1			22 55	-1		17 32	PP
BOGOTA	105.26	89.9			23 1	-1		17 46	PP
PALISADES	112.30	52.3			25 24	113		27 24	
SHAWINIGAN	113.38	46.3	17 38	0					
NAMANGAN	116.05	307.5	17 43	0					
SAN JUAN	116.16	77.8						20 30	

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1961		PAGE 914											
QUETTA	119.43	295.1	17	51	1	23	59	2	20	10	19	19	PP
SVERDLOVSK	121.22	326.5	17	51	-3								
KEVO	125.47	349.3	18	0	-2								
TROMSOE	126.81	352.4	18	3	-1								
SODANKYLA	127.60	348.0	18	4	-2						20	34	SKP
KIRUNA	128.28	350.9									20	38	
KIMBERLEY	128.71	206.6	18	10	2								
KAJAANI	130.16	345.2	18	10	-1						20	43	SKP
SHIRAZ	131.94	294.3									20	50	
TEHERAN	132.29	302.6	18	15	0						21	53	PP
PULKOVO	132.91	340.5									20	54	
MOSCOW	133.02	332.8	18	15	-1				20	29			
SKALSTUGAN	133.40	353.3									20	55	
MAKHACH-KALA	133.53	313.1									20	54	PP
NURMI JARVI	133.94	344.2	18	10	-8						20	57	SKP
BULAWAYO	133.98	216.7									20	57	PP
TIFLIS	135.83	312.4	18	22	1								
UPPSALA	136.14	348.2									21	3	
BROKEN HILL	138.45	221.7	18	19	-7						21	12	PP
GOTEBORG	139.14	351.3									21	26	
COPENHAGEN	141.01	350.0									21	18	
SIMFEROPOL	141.33	322.1	18	26	-6								
LWOW	142.99	335.5	18	32	-3						21	23	
KRAKOW	144.30	339.4	18	36	-1						21	26	
CHORZOW	144.40	340.5	18	36	-1						21	26	
WITTEVEEN	144.56	354.4	18	38K	1				21	27			
RACIBORZ	144.83	341.1	18	38	0						19	28	
SKALNATE PL.	144.93	338.3	18	37	-1				20	57			
COLLMBERG	145.07	347.2	18	38	0				20	47	21	29	SKP
KSARA	145.13	304.4	18	38K	0				20	45	22	2	PP
MUNSTER	145.30	353.2	18	38	-1								
JENA	145.71	348.5	18	39	0				20	58	22	3	PP
PRUHONICE	145.95	344.7	18	42	2				20	51			
BUCHAREST	146.09	327.5	18	44A	4						20	50	PP
JERUSALEM	146.28	301.3	18	41A	1				20	51			
BENSBERG	146.34	353.4	18	43K	3				20	49			
ISTANBUL KA.	146.59	320.3	18	39	-1				20	49	21	44	*SPKP
ISTANBUL UN.	146.66	320.3	18	43	3						20	50	
KASPERSKE H.	146.97	345.2	18	41K	0				20	49			
VIENNA-H.	147.01	341.5	18	41	0								
STUTTGART	148.20	350.0	18	41	-2				20	55			
BELGRADE	148.45	333.6	18	47K	4						29	12	PPS
STRASBOURG	148.61	351.8	18	48	5				20	57	18	54	PKP2
SOFIA	148.73	327.9	18	50	7				21	2			
PARIS	148.80	358.6	18	49	5				20	59			
FOLINIERE	148.82	2.4	18	44	0								
LJUBLJANA	149.55	341.8	18	45K	0				20	55	22	9	PP
BASLE	149.66	351.6	18	51A	6								
HELWAN	150.04	299.7	18	42A	-3				20	51			
TRIESTE	150.13	342.4	18	47	1				21	2	22	11	
BESANCON	150.13	353.7	18	52	6				21	1	21	59	*SPKP
GARCHY	150.32	357.7	18	52	6				21	2	18	59	PKP2
PADOVA	150.86	344.7									19	3	PKP2
ATHENS	151.75	320.6	18	55K	7				21	10			
CLERMONT-FD.	151.82	357.4	18	55	7						21	6	
FLORENCE X.	152.54	344.3	18	49	0				20	59			
ISOLA	153.02	351.0	18	58	8						21	8	
TOLEDO	157.26	10.8							21	32	25	46	
BANGUI	158.62	234.3	18	58	1						23	20	PP
GRANADA	159.96	11.6							21	57	25	30	PP

SEPTEMBER 27 11.H 20.M 45.S EPICENTRE 52.40-168.68 DEPTH= 0.KM

A=-0.60075 B=-0.12028 C= 0.79034 D=-0.1963 E= 0.9805
G=-0.7750 H=-0.1552 K=-0.6127 HT= -6.3

SE= 1.81

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S		
COLLEGE	16.44	32.5	3	52	-2	6	49	-8			9	11
SITKA	19.69	63.1	4	38	4							
PETROPAVLOVK	19.72	284.8	4	33	-1	8	19	8				
MAGADAN	23.46	303.8	5	15	3							
VICTORIA	28.71	79.5	6	3	2							
CORVALLIS	30.64	87.0	6	21	2							

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1961					PAGE 915				
PENTICTON	30.64	75.9	6 19	0					
Y.-SAKHLINSK	31.40	279.9	6 24	-1					
BANFF	32.28	70.6	6 34	1					
TIKSI	32.92	328.9	6 38K	0					
SHASTA	33.36	91.8	6 45	3					
YAKUTSK	33.45	311.2	6 41	-2					
MINERAL	34.05	91.7	6 49A	1					
HUNGRY HORSE	34.38	74.5	6 51	0					
BERKELEY	35.18	95.6	6 59	1	12 39	8			7 25
RENO	35.63	91.3	7 2	1					
LICK	35.89	95.8	7 3K	-1					
RESOLUTE	36.16	25.6	7 6	0					
BUTTE	36.40	77.1	7 10	2					
VINEYARD	36.43	96.3	7 6	-2					
FRESNO	37.38	94.9	7 19	2					
BOZEMAN	37.49	76.7	7 21	4					
EUREKA	38.02	88.4	7 24	2					9 11
SALT LAKE C.	39.76	83.7	7 38	2					
VLADIVOSTOK	39.96	281.0	7 39	1					
PASADENA	40.11	96.6	7 41	2					
MATUSIRO	40.12	268.3	7 39	0	13 40	-7			9 22 PP
FLAMING GRGE	41.16	81.8	7 47	-1					18 10 SCS
RAPID CITY	43.02	74.0	8 6	3					
LARAMIE	43.23	78.8	8 5	0					
TUCSON	45.90	92.5	8 28	2					
MANHATTEN	49.92	75.1	8 15	-43	16 9	1			
PEKING	51.18	287.7	9 6	-1	16 24	-1			
ULAN-BATOR	51.33	301.0	9 9	1					
WICHITA MTS.	51.69	80.8	9 9	-2	16 32	0			12 49
FAYETTEVILLE	53.40	76.4	9 20K	-4					20 18 SCS
ROLLA	53.54	73.3	9 19	-6	16 53	-4			
ZO-SE	54.22	276.0	9 29	-1	17 7	0			
NANKING	55.00	278.6	9 35	-1	17 17	0			
C. GIRARDEAU	55.31	72.2	9 36	-2	17 9	-12			
LITTLE ROCK	55.39	76.4	9 37	-2					
BLOOMINGTON	55.79	68.6	9 41	0	17 27	-1			
OTTAWA	57.41	56.6	9 51	-2					
KEVO	57.61	353.6	9 53	-1					
SHAWINIGAN	58.10	54.0	9 55	-3					
TROMSOE	58.15	356.9	9 58	0					
BREBEUF	58.41	55.3	9 59	-1					
MORGANTOWN	59.16	64.1	10 2	-3					
APATI TY	59.22	350.3	10 4	-2					
SIAN	59.35	287.4	10 7	0					
KIRUNA	59.89	356.0	10 9	-1					
SODANKYLA	60.00	353.2	10 9	-2					
LANCHOW	61.00	292.2	10 17	-1					
PALISADES	61.44	59.2	10 20	-1	18 41	0	10 30	23 0	SS
FORDHAM	61.57	59.3	10 22	0					
COLUMBIA	62.56	69.3	10 28	0					
KAJAANI	63.15	352.0	10 32	0					
SVERDLOVSK	63.86	332.3	10 21	-16					
HALIFAX	63.93	50.1	10 43	6					
SKALSTUGAN	64.35	359.5	10 39A	-1					
CHENG TU	64.80	288.0	10 43	0	19 21	-2			
CANTON	64.81	275.5	10 44	1	19 23	0			
HONG KONG	64.89	274.3	10 56	12	19 25	0			
NURMIJARVI	66.93	352.9	10 55	-2	19 49	0			
HELSINKI	67.24	352.7	10 59	0					
UPPSALA	67.99	356.6	11 2	-1					
KUNMING	69.67	284.9	11 15	1	20 25	3			
MOSCOW	70.06	344.5	11 15	-1					
GOTEBORG	70.26	359.6	11 17	0					
FRUNSE	70.56	315.8	11 19	0					
COPENHAGEN	72.28	359.3	11 30	1					
LHASA	72.92	296.3	11 35A	2	20 55	-5			
ANDI JAN	73.23	316.0	11 37	2					
NAMANGAN	73.33	316.6	11 37	1					
NHATRANG	75.62	271.3	12 5	16					
SHILLONG	75.62	293.1	11 47	-2					
SAMARKAND	76.36	319.0	11 54	1					
HALLE	76.47	359.6	11 52	-2					
COLLMBERG	76.66	358.9	11 55	0					12 9 PCP
BENSBERG	76.95	2.7	11 57	1					
JENA	77.04	359.8	11 57	0					
CHATRA	77.24	297.3	11 57	-1					
RACIBORZ	77.73	355.5	12 2	1					12 19 PCP
PRUHONICE	77.96	357.9	12 3	1					
CHITTAGONG	78.15	291.1	12 3	0	12 12		15 7		PP

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1961					PAGE 917				
KARAPIRO	81.77	195.2	12 21	-1					
MELBOURNE	82.69	170.9	12 26	-1					
MUNDARING	83.09	146.4	12 28	-1					
ADELAIDE	84.87	165.5	12 38A	0	23	2	-4	12 42	PCP
SAN JUAN	84.89	319.8	12 37	-1					
CANBERRA	85.46	173.9	12 42A	1	23	3	-9	28 50	SS
RIVERVIEW	87.05	175.6	12 48A	0	23	6	-21	29 5	SS
BRISBANE	93.52	176.7	13 18	-1	23	53	-32		
GRANADA	97.61	16.0			25	18	63	17 36	PP
HELWAN	99.78	46.1			25	38	72	17 52	PP
TOLEDO	100.20	15.1	13 50	1	25	36	68	17 56	PP
CHARTERS TS.	100.40	170.3	13 49	-1				26 27	
JERUSALEM	102.95	48.4						18 17	
LEMBANG	103.50	129.8	18 22	258				24 46	
BAGNERES	103.94	17.7						18 8	PP
KSARA	105.02	47.9	14 26	777				18 40	PP
ROME	105.21	27.1						27 42	PS
MONACO	105.87	22.8						18 38	PP
ISOLA	106.22	22.4	14 53	777				18 41	PP
FLORENCE X.	106.72	25.6						18 36	PP
CLERMONT-FD.	107.05	19.2	18 48	777					
PALISADES	108.31	322.1			25	5	0	28 15	PS
SHIRAZ	108.39	62.9	18 30	777				18 57	
PADOVA	108.40	25.5						20 36	
GARCHY	108.50	18.8	18 48	777					
BESANCON	108.98	20.8	18 51	777					
TRIESTE	109.05	26.7	18 43	777				18 59	PP
ISTANBUL KA.	109.09	39.5	14 31	777				18 52	PP
BOMBAY	109.30	85.5						25 12	
FOLINIERE	109.41	16.0						19 4	PP
LJUBLJANA	109.61	27.1	18 31	777				18 57	
STRASBOURG	110.59	21.6						19 10	PP
C. GIRARDEAU	110.62	308.9	18 31	-3					
PORT MORESBY	111.06	170.2						26 44	
STUTTGART	111.06	22.6						19 2	PP
BLOOMINGTON	111.07	312.1	18 35	0					
BUCHAREST	111.20	35.9						19 13	
FAYETTEVILLE	111.48	304.8	17 59	-37					
WICHITA MTS.	112.21	300.7	14 42	-235	25	23	2	19 18	PP
BREBEUF	112.29	324.4						19 24	PP
BENSBERG	112.77	20.5						18 58	PP
SHAWINIGAN	113.00	325.4	18 39	0					
PRUHONICE	113.32	25.7	18 37	-3				19 29	
JENA	113.58	23.4	18 43	3				19 56	PP
HALLE	114.20	23.5						19 34	
COLLMBERG	114.23	24.2	18 42	1				19 35	PP
SIMFEROPOL	114.23	41.2						19 37	PP
MANHATTAN	115.12	304.8	18 43	0					
DURHAM	115.14	13.9						19 44	PP
TIFLIS	115.35	50.4						19 41	PP
LWOW	115.51	32.0						19 45	
QUETTA	115.70	73.9	18 46K	2	25	32	-2	19 53	PP
TUCSON	115.81	289.9	18 45	1					
MAKHACH-KALA	117.47	51.5						20 2	PP
COPENHAGEN	118.24	22.2						36 14	SS
NEW DELHI	119.53	83.2	18 47A	-5				25 43	
PASADENA	120.93	285.5	18 55	1				20 22	
DEHRA DUN	121.37	82.8						25 53	
RAPID CITY	121.94	303.3	18 56	0					
FLAMING GRGE	122.16	296.8	18 57	0					
UPPSALA	123.16	23.4	18 57	-2					
SALT LAKE C.	123.17	294.9	18 59	0					
CHATRA	123.20	92.9	18 57K	-2					
SAMARKAND	123.36	67.5	19 0	1					
FRESNO	123.82	286.1	19 2	2					
EUREKA	124.09	291.0	19 1	0				19 31	
VINEYARD	124.59	284.9	19 4	3					
MOSCOW	124.66	37.1	18 51	-11					
PARAISO	124.75	283.8	19 3	1					
HELSINKI	125.05	27.2	19 3	1					
LICK	125.18	285.1	19 4K	1				20 53	
NURMIJARVI	125.28	26.9	19 2	-1					
SKALSTUGAN	125.62	18.8	19 3	0				20 53	PP
BERKELEY	125.90	285.0	19 6A	2					
SAN FRANCISCO	125.91	284.8	19 5	1					
RENO	125.99	288.2	18 52	-12					
PULKOVO	126.02	30.4	19 4	0					
NAMANGAN	126.62	69.9	19 7	2					
BOZEMAN	126.63	299.2	19 8	3					

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1961		PAGE 918									
ANDI JAN	126.78	70.6	19	7A	1						
LHASA	127.46	94.3	19	7K	0						
MINERAL BUTTE	127.49	287.5	19	8A	1					21	10 PP
SHASTA	127.58	298.5	19	7	0						
KAJAANI	128.15	287.2	19	9A	1						
	129.10	26.2	19	9	-1					22	31 PKS
FRUNSE	129.45	70.6	19	10K	-1						
KUNMING	129.60	108.5	19	12	1	26	5	-14			
HUNGRY HORSE	129.99	299.5	19	11	-1				19	52	21 23 PP
KIRUNA	130.91	20.4	19	13	-1						22 32 PP
ALMATA	130.91	71.9	19	14	0						22 38 PKS
CORVALLIS	131.51	289.9	19	16	1						
SODANKYLA	131.69	23.5	19	14	-1						22 41 PKS
HONG KONG	132.45	122.4	19	17	0						22 42 PP
BANFF	132.72	301.1	19	16	-1						
CANTON	132.79	121.0	19	20	3						21 48 PP
PENTICTON	133.22	296.7	19	17	-1						
SVERDLOVSK	133.55	49.0	19	17	-2						
KEVO	133.79	21.9	19	16	-3						
VICTORIA	134.42	293.5	19	19	-1						
SEMIPALATNSK	137.58	67.1	19	15	-11						
LANCHOW	139.05	100.8	19	31	2						22 25 PP
SI AN	140.15	107.6	19	32	1						22 33 PP
RESOLUTE	141.67	336.0	19	28	-5						22 37
NANKING	142.94	120.6	19	33	-2						22 43 PP
ZO-SE	143.15	124.4	19	33	-3						22 46 PP
SITKA	145.39	296.7	19	40	0						
KHEYS	146.62	17.2	19	53	11						
PEKING	148.24	109.4	19	45	1						23 19 PP
ULAN-BATOR	149.22	89.6	19	46	0						
IRKUTSK	150.56	80.6	19	47K	-1						
COLLEGE	154.13	306.0	19	48	-5						
MATUSIRO	154.28	144.5	19	54K	1			20	1		29 46 SKKS
TUKUBASAN	154.51	148.1	20	29	35						23 50 PP
VLADIVOSTOK	157.83	126.3	19	58	0						34 55
TIKSI	163.44	31.0	19	59A	-5						
Y.-SAKHLINSK	165.19	140.6	20	10	4						
YAKUTSK	166.69	67.1	20	2	-5						
PETROPAVLOV	173.52	191.9	20	8K	-3						
MAGADAN	177.12	83.9	20	9	-3						

SEPTEMBER 27 19.H 20.M 44.S EPICENTRE 52.46-168.79 DEPTH= 0.KM

A=-0.60026 B=-0.11895 C= 0.79091 D=-0.1944 E= 0.9809
G=-0.7758 H=-0.1537 K=-0.6119 HT= -6.3

SE= 2.52

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S		
COLLEGE	16.43	32.7	3	54	0							
PETROPAVLOV	19.64	284.6	4	32A	-1							
SITKA	19.73	63.2	4	36	2							
MAGADAN	23.37	303.7	5	14	3							
VICTORIA	28.77	79.5	6	3	1							
PENTICTON	30.70	75.9	6	12	-7							
CORVALLIS	30.71	86.4	6	22	3							
Y.-SAKHLINSK	31.32	279.7	6	24	-1							
TIKSI	32.84	328.8	6	38K	0							
YAKUTSK	33.37	311.1	6	40	-2							
SHASTA	33.43	91.8	6	44	1							
UKIAH	33.87	94.7	6	47	0							
MINERAL	34.12	91.6	6	50	1							
HUNGRY HORSE	34.44	74.5	6	52	0						9 27 PCP	
BERKELEY	35.25	95.6	6	59	0							
RENO	35.70	91.3	6	54	-9							
LICK	35.97	95.8	7	5A	0							
RESOLUTE	36.14	25.7	7	6	0						9 32	
PARAISO	36.18	97.7	6	54	-13							
BUTTE	36.45	77.1	6	56	-13							
VINEYARD	36.51	96.3	7	13	4							
FRESNO	37.46	94.9	7	19	2							
BOZEMAN	37.54	76.7	7	18	0							
EUREKA	38.09	88.4	7	24	1							
SALT LAKE C.	39.82	83.7	7	39	2			7	37		9 8	
VLADIVOSTOK	39.88	280.9	7	38A	0	13	53	10				

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1961

PAGE 919

MATUSIRO	40.05	268.2	7 39	0	13 44	-2		
PASADENA	40.19	96.6	7 46	6	13 34	-14		
FLAMING GRGE	41.22	81.8	7 36	-13			7 50	9 14 PP
RAPID CITY	43.07	74.0	8 6	2				
LARAMIE	43.29	78.7	8 3	-3				
CHANGCHUN	43.39	285.9	8 6A	0				
TUCSON	45.97	92.4	8 27	0				
MANHATTEN	49.98	75.1	8 56	-2				
PEKING	51.10	287.6	9 6	-1	16 22	-2		
ULAN-BATOR	51.24	300.9	9 8	0				
WICHITA MTS.	51.74	80.7	9 11	-1	16 34	1		18 51 SCS
FAYETTEVILLE	53.46	76.4	9 23	-2				15 38
ROLLA	53.59	73.2	9 20	-5	17 52	54		
ST. LOUIS I	54.06	71.4	9 27	-2	17 19	14		
ZO-SE	54.14	275.9	9 29A	-1	17 8	2		
NANKING	54.93	278.5	9 36A	1				
C. GIRARDEAU	55.36	72.2	9 40	1	17 28	6		
LITTLE ROCK	55.45	76.3	9 38	-1	17 0	-23		
BLOOMINGTON	55.84	68.5	9 50	8	17 28	-1		
OTTAWA	57.44	56.6	9 51	-2				
KEVD	57.55	353.6	9 52	-2				
TROMSOE	58.09	356.8	9 56	-2				
SHAWINIGAN	58.13	53.9	9 57	-1				
BREBEUF	58.44	55.3	9 59K	-1				
APATITY	59.16	350.3	10 4	-1				
MORGANTOWN	59.20	64.0	10 5K	-1				
SIAN	59.26	287.3	10 6A	0				
PENNSYLVANIA	59.51	61.7	10 10	2				
KIRUNA	59.84	356.0	10 8	-2				11 30
SODANKYLA	59.93	353.2	10 9	-2				
LANCHOW	60.92	292.1	10 17	0				
WASHINGTON	61.30	62.8	10 17	-3				
PALISADES	61.47	59.1	10 20	-1	18 43	1	10 31	20 27 SCS
FORDHAM	61.60	59.2	10 21	-1	18 43	-1		
SEMIPALATNSK	62.12	317.5	10 23	-3				
CHAPEL HILL	62.34	66.4	10 26	-1				
COLUMBIA	62.61	69.2	10 28	-1				
KAJAANI	63.09	352.0	10 32	0				
SVERDLOVSK	63.78	332.3	10 49	12				
HALIFAX	63.95	50.1	10 59	21				
CHENG TU	64.72	287.9	10 43A	0				
HONG KONG	64.82	274.2	10 43	0	19 24	0		
NURMIJARVI	66.87	352.8	10 55A	-1	19 47	-2		
PULKOVO	67.07	349.6	10 57	-1	19 59	8		
HELSINKI	67.18	352.6	10 57	-1				
BERGEN	67.40	3.2	10 48	-12				
UPPSALA	67.93	356.5	11 1	-2				
ALMATA	69.11	314.5	11 11	1				
KUNMING	69.59	284.8	11 14A	1	20 24	3		
MOSCOW	69.99	344.5	11 16	0				
GOTEBORG	70.20	359.6	11 25	8				
FRUNSE	70.47	315.7	11 20A	1				
PORT MORESBY	72.21	226.1	11 32	3				20 52 PS
COPENHAGEN	72.22	359.3	11 28	-1				
LHASA	72.84	296.3	11 35A	2	21 0	1		
NAMANGAN	73.25	316.5	11 37	2				
WITTEVEEN	75.03	2.8	11 38	-8				
SHILLONG	75.53	293.0	11 46K	-3				
NHATRANG	75.55	271.2	11 49	0			12 0	
MUNSTER	75.90	2.3	11 52	1				
KEW	75.99	7.4	11 52	1				
SAMARKAND	76.28	318.9	11 54A	1				
HALLE	76.42	359.5	11 54	0				
COLLMBERG	76.61	358.8	11 54A	-1				12 7 PCP
BENSBERG	76.90	2.6	11 58	2				
JENA	76.99	359.8	11 57	0				12 25
CHATRA	77.15	297.2	11 57K	-1				
CHORZOW	77.42	354.9	11 58	-1				12 9 PCP
LWOW	77.52	351.5	12 0A	0				
KRAKOW	77.60	354.3	11 58	-2	21 52	1		12 36
RACIBORZ	77.67	355.4	12 3	3				12 20 PCP
PRUHONICE	77.90	357.8	12 2A	0				
SKALNATE PL.	78.45	354.0	12 5A	0				
HEIDELBERG	78.50	1.7	12 6	1				
FOLINIERE	78.66	7.9	12 7	1				13 26
KASPERSKE H.	78.77	358.4	12 7	0				
PARIS	78.84	5.9	12 8	1				12 14 PCP
STUTTGART	79.14	1.3	12 8	-1				
STRASBOURG	79.30	2.3	12 12	3				

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1961

PAGE 920

TUBINGEN	79.37	1.4	12 11	1					
VIENNA-H.	79.57	356.5	12 12	1					
EBINGEN	79.72	1.5	12 13	1					
LAHORE	79.89	309.3	12 13	0					
RAVENSBURG	80.13	1.1	12 15	1					
BASLE	80.34	2.5	13 16A	61					
GARCHY	80.40	5.6	12 16	1				12 27	PCP
BESANCON	80.57	3.6	12 18	2					
NEUCHATEL	80.85	3.0	12 20	2					
NEW DELHI	80.94	305.6	12 13A	-5					
SIMFEROPOL	80.99	343.7	12 19	1					
SOTCHI	81.23	339.5	12 21	1					
TI FLIS	81.79	335.3	12 25	2					
LJUBLJANA	81.83	357.7	12 22A	-1					
CLERMONT-FD.	81.91	5.7	12 24	1					
CHARTERS TS.	82.13	222.1	12 20	-4					
TRIESTE	82.25	358.2	12 26	1			12 37		
ROSELEND	82.38	2.5	11 27	-59				13 40	
PADOVA	82.51	359.5	12 52	26					
SAN JUAN	83.08	69.0	12 30	1					
ISOLA	83.68	3.0	12 35K	3					
MONACO	84.14	2.8	12 36	1					
FLORENCE X.	84.14	360.0	12 36A	1				29 24	
BAGNERES	84.37	8.1	12 36	0				13 2	
QUETTA	84.42	314.0	12 37	1	23 3 1		12 50	15 51	PP
TEHERAN	85.44	328.2	12 46	5					
ISTANBUL KA.	85.57	346.5	12 39	-3	22 27	-46			
ISTANBUL UN.	85.61	346.6	12 43	1					
ROME	86.01	359.0	12 46A	2				23 36	
TOLEDO	87.09	11.7	12 50	1	23 34 6			19 6	
MEDAN	88.73	274.2	12 59K	2				13 47	
SHIRAZ	90.62	324.9	13 5	-1				16 39	PP
POONA	90.97	302.6	13 9	1					
KSARA	91.42	339.7	13 12K	2					
JERUSALEM	93.53	339.7	13 21K	2					
SCOTT BASE	130.92	186.7						22 35	SKP
BROKEN HILL	139.66	333.6	19 33	3					
BULAWAYO	145.02	330.6	19 39A	-1					
MAWSON	151.16	218.6	19 53	3			20 5	20 29	

SEPTEMBER 27 19.H 27.M O.S EPICENTRE 52.35-168.75 DEPTH= 0.KM

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SE= 2.01

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
COLLEGE	16.51	32.5	3	53	-1							
PETROPAVLOVK	19.69	285.0	4	32	-1							
SITKA	19.75	63.0	4	35	1							
CORVALLIS	30.69	86.3	6	20A	2							
PENTICTON	30.70	75.7	6	18	0							
KIPAPA	31.97	160.9	6	28	-1							
HONOLULU	32.07	161.1	5	54	-36						6 29	
TIKSI	32.95	328.9	6	36	-2							
SHASTA	33.40	91.7	6	43	1							
UKIAH	33.84	94.6	6	47	1							
MINERAL	34.09	91.5	6	49A	1							
HUNGRY HORSE	34.44	74.3	6	51	0						8 48	
SAN FRANCISCO	35.16	95.8	6	58	1							
BERKELEY	35.21	95.5	6	57	0							
RENO	35.68	91.2	6	50	-11							
LICK	35.93	95.7	7	5A	1							
RESOLUTE	36.23	25.6	7	5	-1							
BUTTE	36.45	77.0	7	9	1	12 34	-16					
VINEYARD	36.47	96.2	7	10	2							
MI ZUSAWA	36.65	269.2	7	11	1	12 58	5					
FRESNO	37.42	94.8	7	18	2							
BOZEMAN	37.54	76.6	7	18	1							
EUREKA	38.07	88.3	7	23	2				7 37			
TUKUBASAN	39.12	266.4	7	14	-16	13 31	0				17 54	SCS
SALT LAKE C.	39.81	83.6	7	38	2							
MATUSIRO	40.07	268.3	7	38A	0	13 46	1				17 55	SCS
PASADENA	40.15	96.5	7	39	0	13 15	-31					

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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1961								PAGE 921	
FLAMING GRGE	41.21	81.7	7 43	-5					
ABUYAMA	42.79	268.6	8 1A	1				17 52	SCS
RAPID CITY	43.08	73.9	8 3	0					
LARAMIE	43.29	78.7	8 5	0					
CHANGCHUN	43.45	286.1	8 5A	-1	14 31	-4			
KHEYS	44.75	350.2	8 17	1					
TUCSON	45.94	92.4	8 27	1				9 3	
IRKUTSK	49.97	306.7	8 56A	-1					
MANHATTEN	49.98	75.0	8 56	-1	16 4	-4			
PEKING	51.15	287.7	9 6A	0	16 22	-2			
ULAN-BATOR	51.32	301.0	9 6	-2					
WICHITA MTS.	51.74	80.7	9 10	-1	16 32	0		18 50	SCS
ROLLA	53.60	73.2	9 22	-3	16 50	-7			
ST. LOUIS 1	54.08	71.4	9 26K	-2	17 0	-4			
ZO-SE	54.18	276.0	9 29A	0	17 5	0			
NANKING	54.97	278.6	9 34A	-1	17 14	-2			
C. GIRARDEAU	55.38	72.1	9 34	-4	17 18	-3			
LITTLE ROCK	55.45	76.3	9 36	-2	17 17	-5			
BLOOMINGTON	55.86	68.5	9 40	-1	17 24	-4			
CLEVELAND	57.08	63.4	9 49	-1					
OTTAWA	57.48	56.6	9 51	-2					
KEVO	57.66	353.6	9 54	0					
SHAWINIGAN	58.17	53.9	9 56	-2					
TROMSOE	58.21	356.8	9 55	-3					
BREBEUF	58.48	55.3	9 57	-3					
MORGANTOWN	59.23	64.0	10 4K	-1					
APATI TY	59.27	350.3	10 3	-2					
SIAN	59.32	287.3	10 6A	0	18 14	1			
PENNSYLVANIA	59.55	61.7	10 6	-1	18 16	0			
KIRUNA	59.95	356.0	10 9A	-1				18 36	PS
SODANKYLA	60.05	353.2	10 9A	-2					
LANCHOW	60.98	292.2	10 16A	-1	18 33	-2			
WASHINGTON	61.32	62.7	9 18	-61					
PALISADES	61.51	59.1	10 23	3	18 35	-6	10 35	23 15	SS
CHAPEL HILL	62.36	66.4	10 25	-1					
COLUMBIA	62.62	69.2	10 27	-1					
KAJAANI	63.21	352.0	10 31A	-1					
SVERDLOVSK	63.89	332.3	10 36	0					
HALIFAX	64.00	50.1	10 41	4					
CANTON	64.77	275.5	10 42A	0	19 20	-2			
CHENG TU	64.77	287.9	10 43A	1	19 22	0			
HONG KONG	64.85	274.3	10 42	-1	19 24	1			
MANILA	66.41	263.4	10 52	-1	19 14	-28			
NURMI JARVI	66.98	352.8	10 55A	-1	19 45	-4		20 51	SCS
PULKOVO	67.18	349.7	10 56	-1					
HELSINKI	67.29	352.6	10 57	-1					
UPPSALA	68.04	356.5	11 1A	-2					
ALMATA	69.21	314.6	11 10	0					
KUNMING	69.64	284.9	11 13A	0	20 23	2			
MOSCOW	70.10	344.5	11 15	-1					
GOTEBORG	70.31	359.6	11 16A	-1					
FRUNSE	70.57	315.8	11 19A	1					
COPENHAGEN	72.34	359.3	11 25	-4				21 37	SCS
DURHAM	72.72	7.7	11 31A	0	22 12	75			
LHASA	72.91	296.3	11 34A	2	20 59	0			
ANDI JAN	73.24	316.0	11 35	1					
NAMANGAN	73.34	316.6	11 36A	1					
WARSAW	75.47	353.8	11 47	0	21 32	5		16 34	PPP
NHATRANG	75.57	271.3	11 48	0				12 2	PCP
SHILLONG	75.60	293.1	11 46A	-2					
MUNSTER	76.01	2.3	11 51	1					
KEW	76.10	7.4	11 52	1					
SAMARKAND	76.38	319.0	11 52	0					
HALLE	76.53	359.5	11 53	0	22 2	23			
COLLMBERG	76.72	358.9	11 54A	0				12 6	PCP
BENSBERG	77.01	2.6	11 56A	0	22 8	24			
JENA	77.10	359.8	11 57	1	21 36	-9		14 45	
CHORZOW	77.53	354.9	11 58	-1				12 9	PCP
LWOW	77.63	351.6	12 0A	1					
KRAKOW	77.71	354.3	12 0	0	21 52	0		22 9	SKS
RACIBORZ	77.78	355.4	12 3	3				13 16	
PRUHONICE	78.01	357.8	12 2A	1				14 4	
SKALNATE PL.	78.56	354.0	12 5A	1					
HEIDELBERG	78.61	1.7	12 5	0					
FOLINIERE	78.77	7.9	12 5	-1					
KASPERSKE H.	78.88	358.4	12 7A	1					
PARIS	78.95	5.9	12 7	0				12 16	PL.
DEHRA DUN	79.18	306.0	12 10	2	22 19	12			

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1961

PAGE 922

STUTT GART	79.25	1.3	12 9A	1					
STRASBOURG	79.41	2.3	12 10	1					
TUBINGEN	79.48	1.5	12 10	1					
VIENNA-H.	79.69	356.5	12 11A	0					12 58
EBINGEN	79.83	1.5	12 12	1					
LAHORE	79.97	309.4	12 13A	1					
MAKHACH-KALA	80.02	333.9	12 13	1					
RAVENSBURG	80.24	1.1	12 14	0					
BASLE	80.45	2.5	12 16	1					
GARCHY	80.51	5.6	12 15	0					12 42
BESANCON	80.68	3.6	12 16	0					
NEUCHATEL	80.96	3.0	12 18	1					
NEW DELHI	81.03	305.6	12 14	-4	22 30	3			
SIMFEROPOL	81.10	343.8	12 18A	0	22 36	9			
SOTCHI	81.34	339.5	12 20A	1					
TIFLIS	81.90	335.3	12 24	2					
LJUBLJANA	81.94	357.7	12 23A	1					13 6
CLERMONT-FD.	82.01	5.7	12 23A	0					13 4
TRIESTE	82.36	358.2	12 25	0	22 40	0			
ROSELEND	82.49	2.6	12 26A	1					
PADOVA	82.62	359.6	12 26	0	23 0	17			24 0 PS
BUCHAREST	82.77	349.3	12 17A	-10					22 49 SS
PAVIA	82.84	1.5	12 30	3	22 41	-4			26 0
BELGRADE	82.89	353.4	12 29	2					12 39 PCP
SAN JUAN	83.10	69.0	12 28	0					
GORIS	83.58	333.4	12 32	1					
GALERAZAMBA	83.68	80.7							25 14 PPS
ISOLA	83.78	3.0	12 34	2					
FLORENCE X.	84.25	360.0	12 34A	0	23 25	26			
BAGNERES	84.48	8.1	12 36	1					12 58
QUETTA	84.51	314.1	12 36A	0	23 1	-1	12 45		15 50 PP
SOFIA	84.76	351.1	12 36	-1					14 29
SERRA PILAR	85.32	14.9	12 36A	-4	23 3	-7			15 57 PP
TEHERAN	85.54	328.3	12 46	5	23 11	-1			
ISTANBUL UN.	85.72	346.6	13 42K	60					
ROME	86.13	359.1	12 44A	0					23 34 SCS
BRISBANE	86.23	213.7	12 40	-4					28 22
ANTIGUA	86.52	66.4	12 52	6					
TORTOSA	86.74	8.2	13 20	33					
TOLEDO	87.19	11.7	12 50	1					
CHINCHINA	88.02	84.5	12 53	0	23 35	-1			24 59 PS
MEDAN	88.77	274.2	12 57K	1	23 42	-1			14 17
CARACAS	88.89	74.3	13 0	3	24 20	36			
BOGOTA	89.24	83.5			23 49	2			23 30 SKS
ATHENS	89.40	350.2	12 35	-24					
GRANADA	89.91	11.8	13 4A	2	24 10	17			
ST. VINCENT	90.04	68.3	13 3	1					
SHIRAZ	90.73	325.0	13 6A	0	23 43	-17			16 40 PP
POONA	91.05	302.6	13 7	0					
BOMBAY	91.27	303.6							24 2
KSARA	91.53	339.7	13 11	2	24 13	5			16 47 PP
JERUSALEM	93.64	339.7	13 19	0					17 5 PP
HELWAN	96.27	342.5	13 31	0					
SCOTT BASE	130.81	186.7	19 11	-2					20 47 PP
MIRNY	139.37	217.5	19 30	1					
BROKEN HILL	139.77	333.6	19 31	1					
ARGENTINE I.	141.34	139.3	19 23	-9					
BULAWAYO	145.13	330.6	19 39A	0					
WINDHOEK	149.93	349.2	19 53K	6					
MAWSON	151.09	218.4	19 54	5			20 12		
KIMBERLEY	154.37	331.6	19 49	-4					

SEPTEMBER 28 1.H 24.M 2.S EPICENTRE -3.95 102.41 DEPTH= 78.KM

A=-0.21432 B= 0.97436 C=-0.06847 D= 0.9767 E= 0.2148
G= 0.0147 H=-0.0669 K=-0.9977 HT= 7.1

DEPTH OF FOCUS= 0.007R

SE= 1.43

	DELTA DEG.	AZ. DEG.	P			S			O-C		*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S		
DJAKARTA	4.93	116.8	1	14K	1								2	10 SG
LEMBANG	5.93	119.1	1	25K	-2	2	30	-4						
MEDAN	8.36	333.5	2	OK	0	3	30	-4						
BAGUIO CITY	27.07	41.1	5	38	1	10	28	21						

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1961										PAGE 923	
MADRAS	27.77	307.7	5	42A	-1					6	37
HONG KONG	28.52	23.3	5	51	1	10	53	23			
KUNMING	28.90	0.6	5	54A	1	10	40	3			
CANTON	28.92	21.2	5	54A	1	10	43	6			
MUNDARING	30.74	156.6	6	9	0					9	21
SHILLONG	31.08	341.3	6	10A	-2						
TOCKLAI	31.40	346.8	6	14K	-1						
CHATRA	33.96	335.1	6	39A	2	11	57	1		7	47 PP
CHENGTU	34.45	2.4	6	41A	-1	12	4	1			
LHASA	35.13	342.7	6	46A	-1	12	13	-1			
POONA	35.92	309.4	6	54	0	12	27	1			
BOMBAY	36.93	308.9	7	4	1	12	47	6		8	32
NANKING	39.05	22.3	7	23A	3	13	20	6			
ZO-SE	39.19	25.9	7	23A	2					9	15
LANCHOW	39.81	1.8	7	28A	1	13	23	-2			
NEW DELHI	40.42	324.7	7	30A	-2	13	34	0		9	5 PP
DEHRA DUN	41.28	327.3	7	40	1	13	47	0		9	5 PP
LAHORE	44.29	324.9	8	2	-1						
PORT MORESBY	44.74	99.3	8	6	-1	14	33	-4		18	30 SCS
PEKING	45.56	14.8	8	14A	1	14	47	-2			
CHARTERS TS.	45.61	114.3	8	14	0	14	49	-1			
ADELAIDE	45.63	137.1	8	14A	0	14	52	2			
WARSAK DAM	47.67	324.8	8	33	3						
QUETTA	47.98	317.5	8	32A	0	15	23	0	8	51	10 19 PP
ABUYAMA	49.63	36.2	9	5A	20						
MELBOURNE	51.42	136.7	9	0	1						
ULAN-BATOR	51.80	3.8	9	1	-1						
CHANGCHUN	51.84	21.0	9	1A	-1	16	15	-2			
ANDIJAN	52.29	331.3	9	4A	-1	16	25	2			
ALMATA	52.32	336.6	9	5	0						
MATUSIRO	52.34	36.5	9	4A	-2						
NAMANGAN	52.81	330.9	9	10	1						
FRUNSE	52.92	334.5	9	9	-1				9	25	
CAMBERRA	53.13	132.0	9	12A	1	16	28	-6			
BRISBANE	53.34	121.4	9	15	2	16	42	5			
VLADIVOSTOK	53.90	26.5	9	17	0	16	56	11			
RIVERVIEW	54.16	129.5	9	19A	0	16	53	5			17 22 *SS
SAMARKAND	54.27	326.6	9	18A	-2						
MOORLANDS	55.24	140.6	9	28A	1				9	41	
TANANARIVE	55.55	249.8	9	29	0					9	57
FORT NELSON	55.59	141.0	9	29A	0				9	43	
IRKUTSK	56.03	1.4	9	18A	-15						
HONIARA	57.36	98.6	9	40	-2						28 57
SEMI PALATNSK	57.40	343.4	10	41A	59						
SHIRAZ	58.27	308.5	9	48A	0	17	45	2	10	5	12 4 PP
TEHERAN	61.91	314.2	10	20	7	18	35	6			
Y.-SAKHLINSK	61.93	30.1	10	12	-1					10	32
MIRNY	62.83	184.2	10	17	-2						
NOUMEA	64.52	112.7	10	30K	0						
PORT VILA	65.87	107.6	10	40	1						
GORIS	67.21	315.9	10	46A	-2						
MAKHACH-KALA	68.01	319.6	10	52	0					11	23
MAWSON	69.01	195.1	10	58A	-1					39	6 PKPPKP
YAKUTSK	69.04	13.4	10	58	-1						
TIFLIS	69.22	317.5	11	0A	0						
SVERDLOVSK	69.40	337.0	11	0	-1						
JERUSALEM	72.93	304.8	11	23A	1						
KSARA	72.97	307.0	11	23A	1	21	12	30	11	44	
GEBBIES PASS	73.04	134.5	11	23	0						
ONERAHI	73.08	126.1	11	46	23						
SOTCHI	73.40	317.6	11	24	-1						
BULAWAYO	73.44	250.3	11	25A	0						
BROKEN HILL	73.47	256.2	11	25A	0						
PETROPALOVK	73.72	31.6	11	26A	-1	20	56	6			
MAGADAN	73.83	23.4	11	27	0						
WELLINGTON	74.17	131.7	11	28	-1						
KARAPIRO	74.29	128.2	11	29	-1						
TUAI	75.65	128.9	11	37	-1						
HELWAN	75.69	302.0								14	32
KIMBERLEY	77.26	241.6	11	47K	0						
TIKSI	77.39	8.3	11	46K	-2						
SIMFEROPOL	77.65	317.5	11	48	-1	21	33	0			
MOSCOW	79.39	328.6	11	58	-1				12	14	
CAPE HALLETT	79.61	163.3	12	2	2	21	59	5	12	18	
ISTANBUL KA.	80.12	312.7	12	2A	-1	21	59	0			15 3 PP
ISTANBUL UN.	80.18	312.6	13	2K	59						14 40
SCOTT BASE	80.89	168.8	12	7	0	22	4	-3	12	23	15 2 PP
BUCHAREST	83.02	315.5	12	19	1						

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1961					PAGE 924		
ATHENS	83.53	308.7	12 20A	0			
BANGUI	84.12	274.8	12 24	1			
PULKOVO	84.48	331.1	12 25	0	12 40		
SOFIA	84.66	313.4	12 27	1		14 39	
AFIAMALU	85.01	103.6	12 29A	1			
LWOW	85.52	320.5	12 31A	1		15 51	
APATITY	85.74	338.9	12 30	-1			
SOUTH POLE	86.07	180.0	12 33	0	12 50		
KAJAANI	86.89	334.9	12 37A	0			
KHEYS	87.16	353.4	12 38	0			
HELSINKI	87.18	330.8	12 39A	1			
NURMIJARVI	87.40	331.1	12 39A	0	23 26 14	30 44	PKKP
SKALNATE PL.	87.84	319.4	12 41A	0			
SODANKYLA	88.18	338.0	12 43A	0		13 15	
KEVO	88.66	340.3	12 45A	0			
RACIBORZ	89.28	320.1	12 49	1	13 9	14 9	
MESSINA	89.95	308.1	12 44	-7		13 13	
VIENNA-H.	90.28	318.2	12 54A	1		14 5	
KIRUNA	90.60	337.9	12 54A	0	13 11	13 27	*SP
UPPSALA	90.76	329.8	12 55A	0	13 12	16 34	PP
LJUBLJANA	91.35	315.9	12 58	0		16 30	PP
TROMSOE	91.40	339.6	12 58	0			
PRUHONICE	91.61	319.8	12 59	0		16 43	PP
TRIESTE	91.86	315.4	13 0	0	23 16 -36	13 17	16 37 PP
KASPERSKE H.	92.19	318.9	13 1	-1			
ROME	92.56	311.6					12 58
COLLMBERG	92.68	321.1	13 4A	0		16 46	PP
HALLE	93.35	321.2	13 8	1		16 40	PP
FLORENCE X.	93.54	313.5	13 7K	-1			17 24
BYRD STATION	93.56	173.3	13 9	1			
JENA	93.56	320.7	13 8	0	13 23	16 52	PP
SKALSTUGAN	93.57	333.4	13 8A	0	13 23		
STUTT GART	95.01	318.5	13 14	-1	13 30	17 5	PP
ISOLA	96.58	313.9	13 23	1		17 19	PP
PARIS	99.49	318.7				17 36	PP
COLLEGE	101.89	24.2	13 58	12		29 56	PKKP
RESOLUTE	108.62	4.8	18 20	777			
VICTORIA	120.89	33.8	18 44	1			
PENTICTON	122.46	31.3	18 47	1			
CORVALLIS	123.08	37.6	18 50	3			
SHASTA	125.64	41.2	18 54	2			
UKIAH	125.85	43.3	18 56	3			
HUNGRY HORSE	125.90	29.3	18 53	0			
MINERAL	126.34	41.2	18 55A	2			
CALISTOGA	126.53	43.5	18 55	1			
BERKELEY	127.11	44.2	18 58	3			
PARAISO	127.75	46.0	19 0	4			
LICK	127.80	44.5	18 58A	2			
RENO	127.94	41.2	18 47	-10			
BUTTE	128.23	30.6	18 58	1			
VINEYARD	128.26	45.1	19 0	3			
FRESNO	129.36	44.2	19 2	3			
EUREKA	130.44	39.1	19 4	3	19 21	22 20	SKP
PASADENA	131.81	46.4	19 6	2	19 23	22 25	PKS
SALT LAKE C.	132.13	35.2	19 7	2		22 27	SKP
FLAMING GRGE	133.41	33.3	19 8	1		22 31	SKP
LARAMIE	135.13	30.1	19 5	-5			
SHAWINIGAN	137.36	355.1	19 15	1			
TUCSON	138.03	44.0	19 9	-6			
BREBEUF	138.47	355.8	19 17	1		22 24	PP
MANHATTEN	140.91	23.6	19 16	-5		23 0	PKS
PALISADES	142.96	355.4	19 21	-3		22 37	PP
FORDHAM	143.12	355.3	19 26	1			
PENNSYLVANIA	143.32	0.3	19 24	-1			
ST. LOUIS 1	143.61	16.8	19 23	-2			
WICHITA MTS.	143.71	29.9	19 24	-2		22 41	PP
ROLLA	143.77	19.3	19 22	-4			
BLOOMINGTON	144.00	11.8	19 27	1			
MORGANTOWN	144.42	3.1	19 27A	0			
FAYETTEVILLE	144.55	23.5	19 27	0	19 42		
C. GIRARDEAU	145.03	16.7	19 28	0			
WASHINGTON	145.21	359.3	19 29	1		23 20	PP
LITTLE ROCK	146.41	22.3	19 31	1			
CHAPEL HILL	148.16	2.2	19 36	3			
COLUMBIA	149.93	5.7	19 38	2			
ANTOFAGASTA	151.64	193.9	19 48	10			
LA PAZ	157.63	204.5	19 50	3		19 26	PP
SAN JUAN	161.79	322.8	19 54	3			

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1961		PAGE 926						
HUKUOKA	9.91	288.8	2	24	2			
AOMORI	9.95	356.2	2	25	2	4	38	24
NAGASAKI	10.18	283.5	2	28	2	4	38	18
HAKODATE	10.94	356.5	2	34	-2	4	31	-7
TOMIE	11.10	282.4	2	40	2			6 30
MORI	11.24	355.9	2	46	6			
HIROO	11.47	6.3						4 35
TOMAKOMAI	11.74	359.8	3	0	13			
SUTTSU	11.96	355.0						4 49
SAPPORO	12.18	359.0	2	59	6	5	0	-8
KUSIRO	12.29	9.6	2	51	-3	4	58	-13
VLADIVOSTOK	14.48	330.3	3	19	-4	5	50	-13
WAKKANAI	14.53	0.1						
Y.-SAKHLINSK	16.15	2.7	3	41	-4			6 14
ZO-SE	17.55	276.0	4	0A	-2	7	23	10
CHANGCHUN	18.28	319.6	4	8A	-3	7	27	-3
NANKING	19.53	279.4	4	23	-2	8	2	5
PEKING	22.61	300.8	4	54A	-3	8	54	-2
BAGUIO CITY	24.00	238.0	5	8	-2	9	24	3
PETROPAVLOVK	25.37	24.4	5	27	4	9	47	4
HONG KONG	25.95	257.4	5	28	-1	10	4	11
CANTON	26.33	259.8	5	30	-2	9	46	-13
MAGADAN	29.34	9.5				10	53	5
ULAN-BATOR	31.45	312.7	6	16	-2			
LANCHOW	31.83	289.6	6	19	-3			11 37
YAKUTSK	32.12	349.4	6	20	-4			
CHENG TU	32.24	279.5	6	23	-2	11	34	1
IRKUTSK	34.62	319.0	6	46A	0	12	10	0
KUNMING	34.70	270.3	6	46	0	12	11	-1
PORT MORESBY	40.39	171.6	7	36	2	13	35	-3
TIKSI	41.40	353.9	7	41K	-1			
LHASA	43.42	281.8	7	59A	0	14	28	5
SHILLONG	43.89	275.9	8	0K	-3			
CHATRA	47.49	279.4	8	31A	0			
SEMIPALATNSK	49.02	311.9						16 7
CHARTERS TS.	50.86	174.4	8	55	-2	16	9	1
FRUNSE	53.65	302.8	9	17	-1			
DEHRA DUN	54.04	286.9				17	24	33
COLLEGE	54.27	29.7	9	22	-1			9 34
HONOLULU	54.40	84.8	8	40	-44			
NEW DELHI	55.30	285.2	9	26A	-4			13 13
ANDI JAN	55.72	300.7	9	38A	5			
NAMANGAN	56.19	301.1	9	37	1			
LAHORE	56.70	289.5	9	39	-1			
HAWAII V.OB.	57.58	85.5	9	43	-3			
WARSAK DAM	58.17	293.2	9	50	0			
BRISBANE	58.90	168.4	9	50	-6	17	54	-2
SVERDLOVSK	59.98	321.2	10	3	0			
SAMARKAND	59.99	300.7	10	2	-1			
BOMBAY	62.71	276.6	10	19	-2	18	46	2
QUETTA	63.13	290.6	10	23	-1	18	48	-1
RIVERVIEW	64.97	171.3	10	38	2	19	15	3
ADELAIDE	65.55	182.6	10	39A	-1			10 49
CANBERRA	66.20	173.4	10	44	0			20 36
MUNDARING	66.98	203.4	10	47	-2			11 11 PCP
APATI TY	68.40	336.9	10	57	-1			
MELBOURNE	68.41	177.2	11	1	3			
RESOLUTE	68.52	13.8	10	58K	-1			
KEVO	69.27	340.2	11	2	-1			
VICTORIA	70.60	44.6	11	13	2			
SODANKYLA	70.73	338.2	11	12A	0			
TROMSOE	71.61	341.9	11	18	1			17 16
KAJAANI	72.22	335.0	11	20	-1			
MOSCOW	72.35	324.8	11	22	0	20	43	3
KIRUNA	72.35	340.1	11	22	0			20 45 SCS
CORVALLIS	72.37	48.3	11	28	6			13 43
MAKHACH-KALA	72.47	309.8	11	21	-1			
PENTICTON	72.51	42.7	11	22	-1			
TEHERAN	72.91	301.7	11	25	0			
PULKOVO	73.61	330.6	11	30	1	20	59	5
FORT NELSON	73.62	175.6	11	29	0			
SHASTA	74.71	51.6	11	37	1			14 2
SHIRAZ	74.77	295.6	11	35A	-1			19 29
TIFLIS	74.82	309.6	11	37	1	21	14	7
MINERAL	75.41	51.6	11	40A	1			14 17 PP
NURMI JARVI	75.48	332.9	11	41	1			14 28 PP
CALI STOGA	75.54	53.6	11	42	2			
HELSINKI	75.57	332.5	11	42	2			
BERKELEY	76.13	54.2	11	45	1			

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1961

PAGE 927

HUNGRY HORSE	76.21	41.7	11 47	3				
PARAISO	76.78	55.6	11 51	4				
LICK	76.81	54.4	11 48K	1			14 25	
RENO	77.01	51.7	11 39	-10			26 46	
SOTCHI	77.19	313.2	11 50	0				
SKALSTUGAM	77.72	339.3	11 53	1			12 12	
UPPSALA	78.58	334.7	11 57	0	21 39	-9		
BOZEMAN	79.36	42.9	12 6	5				
EUREKA	79.60	50.2	12 3	0				
SIMFEROPOL	79.88	316.5	12 4	0				
PASADENA	80.84	55.8	12 12	3	22 14	2		15 26 PP
SALT LAKE C.	81.58	47.4	13 18	65				
GOTEBORG	82.18	335.3	12 17	1				
WARSAW	82.35	327.7	12 18	1				22 33 SCS
LWOW	82.48	324.6	12 19	1				
FLAMING GRGE	83.03	46.2	12 21	0				
COPENHAGEN	83.51	333.8	12 24	1	22 18	-21		22 45 SCS
KRAKOW	84.32	326.6	12 26	-1				22 54 SCS
CHORZOW	84.60	327.1	12 28	-1				
SKALNATE PL.	84.76	325.8	12 30	1				
RAPID CITY	84.81	40.9	12 31	1				
BUCHAREST	84.81	319.5	12 31	1				
KSARA	84.93	306.5	12 31	1	23 0	7		23 58 PS
RACIBORZ	85.11	327.3	12 30	-1			13 6	
LARAMIE	85.13	44.2	12 33	2				
ISTANBUL KA.	85.15	315.5	12 27	-4	22 57	2		15 45 PP
JERUSALEM	86.53	305.1	12 39	1				
COLLMBERG	86.54	330.6	12 40	2				16 9 PP
PRUHONICE	86.84	329.0	12 39	-1				16 4
TUCSON	87.04	54.0	12 45	4				
JENA	87.42	331.0	12 42	0	23 32	15		16 8 PP
MUNSTER	88.20	333.6	12 42	-4				
DURHAM	89.02	339.7	13 2	12	23 41	9		
BENSBERG	89.17	333.2	12 51	0				
LJUBLJANA	89.72	326.3	12 52	-1				16 28
STUTTGART	90.03	330.7	12 55	0	23 51	10		16 28 PP
TRIESTE	90.38	326.4	12 56	0	23 29	-15		16 33 PP
PADOVA	91.44	327.2	13 23	22				24 33
KEW	91.45	337.3						23 56
BASLE	91.71	330.8	13 14	11				
MANHATTEN	91.75	41.4	13 4	1	23 33	-23	16 14	
TARANTO	92.32	320.9						15 29
PARIS	92.69	334.3	13 12	5				
FLORENCE X.	92.96	326.5	12 58	-10				
CHIAVARI	93.44	327.9	12 1A	-70	23 26	-45		
WICHITA MTS.	93.57	45.8	13 13	2	23 48	-24		30 34 SS
GARCHY	93.73	333.2	13 13	1				14 5
ROME	93.77	324.5						17 0 PP
ISOLA	94.57	329.1						17 8
FAYETTEVILLE	95.27	42.3	13 20	1				16 40 PP
ROLLA	95.27	39.7			23 52	3		31 14 SS
C. GIRARDEAU	96.99	38.7			24 4	6		
BLOOMINGTON	97.16	35.7			24 6	7		15 4
BREBEUF	97.52	24.2	13 31	2				17 30 PP
BAGNERES	98.38	332.5						20 5
MORGANTOWN	99.92	31.4						17 23 PP
PALISADES	101.29	26.7			25 21	62		26 9 SKKS
GRANADA	104.89	331.9						18 39 PP
SCOTT BASE	109.51	174.5	18 35	777				
BULAWAYO	119.39	263.0						26 59
SAN JUAN	124.23	32.3	19 46	53				
LA PAZ	149.33	69.0	19 42	4				

SEPTEMBER 28 5.H 0.M 44.S EPICENTRE 36.50 70.67 DEPTH= 205.KM

A= 0.26669 B= 0.76033 C= 0.59227 D= 0.9436 E=-0.3310
G= 0.1960 H= 0.5589 K=-0.8057 HT= -0.4

DEPTH OF FOCUS= 0.027R

SE= 1.94

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S S	O-C S	*PP M S	SUPP. M S
KHOROG	1.19	34.9	0 34	2	0 58	1		
KULYAB	1.58	332.5	0 35	-1	1 1	-2		

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1961		PAGE 928									
OB I-GARM	2.33	340.9	0	43	0	1	13	-3			
GARM	2.51	353.4	0	45	0	1	17	-3			
DUZHANBE	2.56	324.4	0	46	0	1	18	-3			
WARSAK DAM	2.60	163.7	0	44K	-2						
DZERGETAL	2.75	9.1	0	48	0	1	23	-2			
FERGANA	3.97	12.3	1	3	1	1	48	-3			
SAMARKAND	4.30	318.5	1	4	-3	1	50	-8			
ANDI JAN	4.44	6.9	1	9	1	2	0	-1			
NAMANGAN	4.54	9.6	1	10	0	2	0	-3			
LAHORE	5.80	147.4	1	24	-2						
TCHIMKENT	5.85	352.2	1	26	0	2	28	-5			2 12
FRUNSE	7.01	24.5	1	42	1	3	0	0			2 30
QUETTA	7.03	207.3	1	40K	-2	2	56	-5			2 29 *SP
RYBACHE	7.31	34.0	1	45	0	3	2	-5			
FABRICHNAYA	7.96	32.0	1	53	-1						
ALMATA	8.30	33.6	1	58	0						2 49 *SP
PRZHEVALSK	8.44	42.7	2	0	0						
DEHRA DUN	8.72	132.9	2	8	4						3 35
KURMENTY	8.74	39.7	2	3	-1						
NEW DELHI	9.63	143.3	2	10K	-5	3	49	-12			
ASHKABAD	9.93	282.0	2	17	-2	3	59	-9			
KIZYL-ARVAT	11.70	287.6	2	39	-3	4	40	-9			5 6
SEHORE	14.40	155.6	3	17	1	5	43	-7			3 29 PPP
TEHERAN	15.60	272.9	3	31	0						
SHIRAZ	16.67	251.0	3	42A	-1	6	41	0			3 58 PP
CHATRA	17.02	119.9	3	47A	0	6	53	5			
BOMBAY	17.64	173.3	4	11	17						7 7
POONA	18.12	170.3	3	59	0	7	18	7			
MAKHACH-KALA	18.93	297.1	4	10	3	7	28	1			
KIROVOBAD	19.46	289.7	4	11	-2						
TIFLIS	20.71	292.5	4	27	2						5 30 *SP
SVERDLOVSK	21.43	344.8	4	33	1						
VISHAKHAPTNM	21.79	145.8	4	42	6						9 17
MADRAS	24.91	157.5									9 55
KSARA	28.48	275.0	6	40	62	11	56	107			
MOSCOW	29.49	321.2	5	46	-1				6	27	12 22 SSS
LWOW	35.95	306.7	6	43	0				7	26	
ATHENS	37.10	286.8	7	30	38						
APATITY	37.51	337.6	6	55	-1						
NURMI JARVI	37.67	324.4	6	57A	0				7	40	8 3 PP
KAJAANI	37.71	330.7	6	55	-2						8 39
SKALNATE PL.	38.39	305.5	7	3	0						
SODANKYLA	39.62	335.0	7	13A	0				7	56	
KEVO	40.70	338.4	7	20	-2						
UPPSALA	40.90	322.0	7	23K	-1						
VIENNA-H.	40.99	304.2	8	3	39						
KIRUNA	41.97	334.1	7	32K	0						
PRUHONICE	42.07	306.9	7	33	0				8	13	10 10 PP
LJUBLJANA	42.47	301.1	7	36	0						9 16 PP
KASPERSKE H.	42.77	305.7	7	37	-2				8	22	
COLLMBERG	42.99	308.9	7	40K	-1	14	3	13	8	24	9 43 PP
TROMSOE	43.16	336.3	7	41	-1						
COPENHAGEN	43.24	315.3	7	43	0						
HALLE	43.63	309.3	7	45	-1						8 28
JENA	43.90	308.5	7	47	-1	14	4	1	8	32	15 32
SKALSTUGAN	44.06	326.8	7	49	0						
STUTT GART	45.62	305.6	8	1	-1				8	45	
TIKSI	45.86	22.1	8	3	-1	14	31	-2	8	47	9 54 PP
MUNSTER	46.27	310.3	8	6	-1						
ROSELEND	47.32	301.5	8	19	4						9 0
ISOLA	48.02	299.9	8	20	0				9	5	
Y.-SAKHLINSK	53.00	54.6	8	57	-1						
MATUSIRO	53.20	68.4	8	58	-1						9 46
BANGUI	57.38	249.0	9	27	-2				16	13	
TANANARIVE	59.30	205.6	9	42K	0						
BROKEN HILL	64.44	226.2	10	15	-2						
BULAWAYO	68.94	222.4	10	52A	7						
COLLEGE	74.56	16.0	11	17	-1				12	5	
CHARTERS TS.	90.79	114.4	12	39	-2						
PENTICTON	94.07	6.7	12	53	-3						
SOUTH POLE	126.32	180.0	18	36	-2						
SCOTT BASE	126.65	164.8	18	38	-1						
BYRD STATION	136.18	177.4	18	17	-40						18 44
PORT STANLEY	140.90	230.5	18	48	-18						

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1961

PAGE 929

SEPTEMBER 28 22.H 36.M 27.S EPICENTRE 27.43 57.02 DEPTH= 51.KM

A= 0.48381 B= 0.74566 C= 0.45817 D= 0.8389 E=-0.5443
G= 0.2494 H= 0.3844 K=-0.8889 HT= 2.6

DEPTH OF FOCUS= 0.003R

SE= 2.71

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
SHIRAZ	4.54	300.3	1	8A	0	2	10	9			1	30 PG
QUETTA	9.13	70.2	2	11K	-1	3	49	-6			2	18 PP
TEHERAN	9.58	331.3	2	19	1	4	46	40				
WARSAK DAM	14.10	58.8	3	18	-1							
SAMARKAND	14.75	31.6	3	27	0				3	45		
LAHORE	15.62	70.6	3	36	-3							
MAKHACH-KALA	17.33	335.9	3	59	-1	7	13	4				
TIFLIS	17.43	328.0	4	2	1							
POONA	17.83	116.2	4	15	9							
NEW DELHI	17.86	81.6	4	2	-5	7	28	7			4	18 PP
ANDIJAN	18.35	39.7	4	12	-1	7	38	6				
DEHRA DUN	18.64	76.1	4	28	12	7	43	4				
KSARA	19.26	294.5	4	23	0	8	4	11			8	24 PCP
JERUSALEM	19.44	288.1	4	25A	0	8	8	12				
FRUNSE	20.99	38.4	4	41	-1							
SOTCHI	21.34	323.6	4	45K	0	8	40	6				
ALMATA	22.59	40.4	4	58	1							
HELWAN	22.67	282.3	4	58	0	9	4	6				
SIMFEROPOL	25.31	319.7	5	25	1	9	48	4				
ISTANBUL UN.	26.73	307.8	5	37A	0						6	8
CHATRA	26.81	84.3	5	37K	-1							
SEMIPALATNSK	28.98	31.4	5	57K	0							
SVERDLOVSK	29.50	4.0	6	2K	0							
ATHENS	29.79	299.1	6	2	-2						7	10
LHASA	29.91	77.6	6	7	2	11	2	4				
MOSCOW	31.56	339.0	6	23	3				6	41		
LWOW	33.70	320.5	6	39	0							
SKALNATE PL.	35.62	317.6	6	53	-2							
NIEDZIKA	35.67	318.0	6	55	-1						8	15
KRAKOW	36.16	318.8	6	59	-1						7	17
MESSINA	36.21	298.0	7	0	0						11	39
PULKOVO	37.16	337.9									7	37
RACIBORZ	37.20	318.1	7	8	0							
VIENNA-H.	37.67	314.6	7	13K	1							
LJUBLJANA	38.26	310.6	7	18A	1						8	45 PP
TRIESTE	38.69	309.7	7	20	-1				7	38		
ROME	38.94	303.6									8	23 PP
HELSINKI	39.34	335.3	7	37	11							
PRUHONICE	39.36	316.6	7	25	-1							
NURMIJARVI	39.68	335.5	7	29	0	13	29	0			9	23
KASPERSKE H.	39.70	315.0	7	29A	0							
LANCHOW	40.41	65.7	7	36K	1							
COLLMBERG	40.72	318.0	7	38	0						9	18 PP
KUNMING	40.89	82.5	7	40K	1	13	40	-7				
CHENG TU	40.98	73.9	7	41	1							
KAJAANI	41.22	340.9	7	44	2							
HALLE	41.41	318.0	7	43	0				9	38		
JENA	41.46	317.1	7	44	0						9	27 PP
RAVENSBERG	41.92	312.0	7	47	-1							
UPPSALA	42.08	331.4	7	46	-3				7	59		
STUTTGART	42.35	313.4	7	50	-1							
COPENHAGEN	42.59	324.0	7	55	2							
APATITY	42.62	346.9	7	53	0							
HEIDELBERG	42.85	314.2	7	55	0							
ROSELEND	42.89	308.3	8	1	6							
ISOLA	43.15	306.3	7	58	0							
BANGUI	43.17	244.9	7	58	0				8	7		
BASLE	43.23	311.3	7	56A	-2							
STRASBOURG	43.29	312.8	7	58	-1							
ULAN-BATOR	43.59	48.2	8	2	1							
GOTEBORG	43.64	326.6	8	11	9							
SODANKYLA	44.01	343.6	8	6	1						9	46
MUNSTER	44.13	317.6	8	7	2							
BENSBERG	44.16	316.1	8	7	1						8	33
BESANCON	44.26	310.6	8	6	-1							
KEVO	45.78	345.9	8	19	0							
KIRUNA	45.99	341.7	8	20A	0							
SKALSTUGAN	46.20	334.1	8	22	0							
GARCHY	46.24	310.3	8	22	0							

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1961

PAGE 930

PARIS	46.79	312.4	8 26	-1				
TROMSOE	47.62	343.0	8 32	-1				
FOLINIÈRE	48.74	312.1	8 41	-1				
KEW	48.89	315.7	8 45	2				
BROKEN HILL	50.00	217.2	8 49	-3				
DURHAM	50.08	319.8	8 51	-1			9 36	
BULAWAYO	54.71	213.2	9 25	-2				
CHANGCHUN	56.35	53.9	9 38K	0				
TIKSI	58.51	20.7	9 53	-1	17 54	2		
KIMBERLEY	63.84	211.5	10 29	-1				
MATUSIRO	67.59	59.4	10 50	-4				
RESOLUTE COLLEGE	76.52	352.6	11 45	-2				
SHAWINIGAN	85.99	10.4	12 36	0			12 52	
FLAMING GRGE	93.50	327.9	13 9	-3				
EUREKA	110.83	349.0	18 35	3			29 36	PKKP
	113.12	354.1					29 19	PKKP
WICHITA MTS.	114.02	338.1	18 35	1				
SCOTT BASE	120.75	166.6	18 48	1			19 30	PP

SEPTEMBER 29 16.H 50.M 42.S EPICENTRE 43.38 145.28 DEPTH= 76.KM

A=-0.59937 B= 0.41526 C= 0.68433 D= 0.5695 E= 0.8220
G=-0.5625 H= 0.3897 K=-0.7292 HT= -2.9

DEPTH OF FOCUS= 0.007R

SE= 4.62

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
NEMURO	0.22	101.9	0	14K	2	0	11	-11				
KUSIRO	0.76	238.9	0	10K	-7	0	21	-9				
ABASHIRI	0.97	311.8	0	10	-9	0	37	4				
OB IHIRO	1.59	254.1	0	22	-5	0	44	-3				
HIROO	1.81	233.5	0	24	-6	0	46	-6				
ASAHI GAWA	2.16	281.8	0	35	1							
URAKAWA	2.21	237.3	0	30A	-5	1	1	-1				
KURILSK	2.62	44.1	0	39	-2	1	14	2				
RUMOE	2.72	283.4	0	42	0							
TOMAKOMAI	2.82	255.9	0	40	-4	1	16	-1				
SAPPORO	2.89	265.3	0	43K	-2	1	19	0				
WAKKANAI	3.29	309.6	0	51	1							
MURORAN	3.34	253.0	0	45	-6	1	27	-3				
HAKODATE	3.69	246.4	0	51A	-5	1	34	-4				
MORI	3.70	251.4	0	55	-1	1	46	7				
SUTTSU	3.75	262.9	0	53	-4	1	45	5				
HATINOHE	3.99	225.8	0	52A	-8	1	32	-14				
Y. -SAKHL INSK	4.07	334.4	1	2	1	1	54	6			1 17	*SP
AOMORI	4.21	234.2	0	57	-6	1	43	-8				
MIYAKO	4.48	214.9	0	55	-12	1	40	-18				
MORIOKA	4.80	221.4	1	3A	-8	1	51	-15				
MI ZUSAWA	5.27	217.8	1	8	-10	2	0	-18				
AKITA	5.34	228.6	1	12	-7	2	10	-9				
ISINOMAKI	5.78	212.6	1	13	-12	2	13	-17				
SAKATA	6.08	224.5	1	21	-8	2	27	-11				
SENDAI	6.09	214.6	1	18	-11	2	21	-17				
UGLEGORSK	6.12	339.8	1	32	3	2	50	11				
YAMAGATA	6.34	217.8	1	22A	-10	2	27	-17				
HUKUSIMA	6.71	214.7	1	26	-12	2	36	-17				
NI IGATA	7.22	223.1	1	36	-9	2	50	-16				
ONAHAMA	7.24	209.1	1	41	-4	2	46	-20				
SHIRAKAWA	7.35	213.5	1	37	-9	2	52	-17				
AI KAWA	7.56	227.3	1	41A	-8							
MI TO	7.91	209.5	1	42K	-12	3	4	-19				
UTUNOMIYA	7.98	213.2	1	46	-9							
KAKIOKA	8.14	210.5	1	44	-13	3	7	-22				
TUKUBASAN	8.18	210.9	1	44	-14	3	8	-22				
TAKADA	8.26	223.0									2 54	
MAEBASI	8.44	216.5	1	51	-10	3	21	-15				
KUMAGAYA	8.53	214.2	1	51	-11	3	22	-16				
NAGANO	8.62	221.4	1	57	-7							
MATUSIRO	8.72	220.9	1	55K	-10	3	28	-15			3 11	
OI WAKE	8.73	218.6	2	2	-3	3	32	-11				
WAZIMA	8.76	229.7	2	0	-6							
TOKYO C.M.O.	8.79	210.9	1	56	-10	3	24	-21				
YOKOHAMA	9.05	210.6				3	32	-19				

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1961

PAGE 931

MATUMOTO	9.07	220.8	2	11	1				
TOYAMA	9.10	225.6	2	3	-7				
KOHU	9.28	216.2	2	5	-8	3	42	-14	
HUNATU	9.34	214.8	1	51	-23	2	44	-74	
NERA	9.44	208.4				3	36	-24	
MISIMA	9.59	212.9	2	36	19				
AJIRO	9.60	212.0	2	5	-12	3	43	-21	
IIDA	9.73	218.8	2	19	0				
OSIMA	9.74	210.0				3	44	-24	3 32
VLADIVOSTOK	9.77	273.1	2	18	-1				4 3
SHIZUOKA	9.95	214.7				3	54	-18	
GIHU	10.33	222.4	2	20	-7				
OMAESAKI	10.34	214.4							3 13
SEVERO-KUR.	10.37	41.5	2	45	17				
NAGOYA	10.42	220.9	2	23	-5	4	23	-1	
HIKONE	10.69	223.8	2	25	-7	4	21	-10	
KAMEYAMA	10.92	221.7	2	46	11				3 48
HATIDYOZIMA	11.13	204.6							4 14
ABUYAMA	11.35	224.8	2	31A	-10				
OSAKA	11.55	224.3	2	57	14				
PETROPAVLOVK	13.12	38.0	3	13	9				
CHANGCHUN	14.48	278.7	3	20	-2	6	1	0	
YAKUTSK	20.82	339.1	4	42	5				
PEKING	21.94	271.2	4	46A	-2	8	45	4	
ZO-SE	22.68	245.3	4	52	-3	8	55	1	
NANKING	23.72	250.4	5	3A	-2				
ULAN-BATOR	27.02	293.2	5	36	-1				
IRKUTSK	28.57	302.6	5	49	-1	10	39	7	
SIAN	29.57	264.4	5	58A	-1				
LANCHOW	32.45	271.2	6	24A	-1	11	34	1	
CHENG TU	34.97	262.7	6	45A	-1	12	13	1	
MANILA	35.33	223.3	6	47	-2	11	59	-18	
KUNMING	39.11	256.3	7	20A	-1	13	16	1	
COLLEGE	42.18	35.8	7	46	0				7 58
SEMPALATNSK	43.71	302.9	7	58	-1				8 9
LHASA	44.96	270.9	8	9	0	14	45	4	
SHILLONG	46.66	265.6	8	19A	-3				
RABAU	47.76	170.7	8	25	-6				
ALMATA	48.39	294.8	8	37	1				
CHITTAGONG	48.65	262.2	8	43	5				
CHATRA	49.35	270.3	8	42	-1				
FRUNSE	50.12	295.2	8	50	1				
SVERDLOVSK	52.48	316.4	9	6	-1				
NEW DELHI	55.60	278.5	9	27A	-3	17	17	9	9 53
RESOLUTE	55.72	16.2	9	29K	-2				
LAHORE	55.98	283.2	9	31	-2				9 42
WARSAK DAM	56.59	287.2	9	36	-1				
SAMARKAND	56.69	295.3	9	37A	-1				
APATI TY	58.16	335.2	9	46A	-2				
KEVO	58.58	339.0	9	51A	0				
VICTORIA	59.99	50.1	9	57	-4				
SODANKYLA	60.28	337.0	10	2A	-1				
TROMSOE	60.68	341.1	10	4	-1				
KIRUNA	61.64	339.3	10	11A	-1				
QUETTA	61.97	286.1	10	12	-2				10 24
KAJAANI	62.20	333.9	10	14	-1				
BANFF	62.71	44.4	10	17	-2				
CHARTERS TS.	63.16	179.0	10	16	-6				
ASHKABAD	63.26	297.8	10	23	1				
POONA	64.12	271.5	10	26	-2				
HUNGRY HORSE	65.19	46.2	10	34	-1				10 46
NURMIJARVI	65.74	332.2	10	38	-1				
HELSINKI	65.88	331.8	10	40	1				
SKALSTUGAN	67.07	339.2	10	46A	-1				
BUTTE	67.42	47.5	10	48	-1				
UPPSALA	68.54	334.6	10	55A	-1				
TEHERAN	69.04	299.6	11	0	1				
TIFLIS	69.25	308.1	11	1	1				
EUREKA	69.66	54.7	11	2	-1				
GORIS	69.77	305.5	11	5	1				
WOODY	70.31	59.3	11	4	-3				
BERGEN	71.53	340.3	11	20	6				
GOTEBORG	72.01	335.7	11	16A	-1				
SHIRAZ	72.17	294.0	11	18A	0	20	48	15	11 45
FLAMING GRGE	72.51	50.0	11	19	-1				
BOULDER CITY	72.62	56.9	11	20	-1				
SIMFEROPOL	72.85	316.1	11	23	1				11 39 PCP
COPENHAGEN	73.55	334.3	11	26A	0				
RAPID CITY	73.64	44.3	11	24	-3				

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1961

PAGE 932

KRAKOW	75.45	327.1	11 37	0				
SKALNATE PL.	76.01	326.4	11 40	0				
RACIBORZ	76.11	328.0	11 41	0				
COLLMBERG	77.02	331.5	11 46A	0			12 32	
HALLE	77.21	332.2	11 47	0			11 57 PCP	
							12 36	
PRUHONICE	77.56	329.9	11 50A	1			12 51	
TUCSON TELE.	77.58	57.3	11 48	-1				
JENA	77.82	332.1	11 52	2			12 21	
BRATISLAVA	78.08	327.5	11 54K	2			12 6 PCP	
ADELAIDE	78.20	185.5	11 37	-15	11 49			
MUNSTER	78.22	334.8	11 53	0				
DURHAM	78.23	341.1	11 55K	2				
ISTANBUL UN.	78.27	316.2	11 54	1				
VIENNA-H.	78.29	327.9	11 54	1				
CANBERRA	78.39	176.9	11 50	-4				
BENSBERG	79.23	334.5	11 58A	0	12 10		12 14 *SP	
KSARA	79.78	307.1	12 2	1				
STUTTGART	80.44	332.2	12 5	0			12 22	
LJUBLJANA	80.82	327.7	12 7	0				
KEW	80.93	339.0	12 9	2				
TRIESTE	81.45	327.9	12 8	-2				
JERUSALEM	81.63	306.0	12 12A	1				
BASLE	82.08	332.6	12 14A	1				
WICHITA MTS.	82.91	48.2	12 17	0				
ATHENS	83.25	317.3	12 18	-1				
FOLINIERE	83.44	338.0	12 21	1				
GARCHY	83.75	335.2	12 22	0			12 29 PCP	
FAYETTEVILLE	84.18	44.5	12 23A	-1				
SHAWINIGAN	84.32	25.3	12 24	0				
OTTAWA	84.38	27.7	12 23	-2				
BRÉBEUF	84.99	26.3	12 27K	-1	12 38			
ISOLA	85.18	331.3	12 30	1				
HELWAN	85.30	307.2	12 31	2				
MORGANTOWN	87.81	33.3	12 42A	0				
PALISADES	88.87	28.6			23 33 7		24 33 PS	
SCOTT BASE	121.67	174.8	18 43	-2				
MAWSON	126.52	208.2	18 53	-1	19 5			
SOUTH POLE	133.18	180.0	18 49	-18				
BYRD STATION	133.26	166.2	18 51	-16			22 29	
LA PAZ	140.99	57.1	19 24	3				

SEPTEMBER 29 19.H 6.M 17.S EPICENTRE 0.66 122.25 DEPTH= 142.KM

A=-0.53354 B= 0.84570 C= 0.01145 D= 0.8458 E= 0.5336
G=-0.0061 H= 0.0097 K=-0.9999 HT= 7.2

DEPTH OF FOCUS= 0.017R

SE= 2.65

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
MANILA	13.97	355.3	3	12	-1	5	56	11				
DARWIN	15.51	146.9	3	25	-7						4	28
BAGUIO CITY	15.75	354.1	3	33	-2	6	32	7				
LEMBANG	16.38	242.8	3	43	0	6	52	12			15	52 SCS
DJAKARTA	16.82	246.0	3	46K	-2	6	55	6			16	3 SCS
HENGCHUN	21.26	356.2	4	43	7							
TAWU	21.60	356.6	5	41	62							
HSINKONG	22.32	357.9	4	41	-6							
HONG KONG	22.90	340.5	4	52	0	8	51	3				
HWALIEN	23.18	358.5	5	0	5							
MEDAN	23.73	277.4	4	59	-1	9	5	3			16	2 SCS
CANTON	23.92	339.4	5	4A	2	9	16	11				
PORT MORESBY	26.74	112.5	5	26	-2	9	57	5			5	50
RABAUL	30.29	99.4	5	57	-3							
ZO-SE	30.29	358.2	6	0	0	10	53	5				
KUNMING	30.77	323.7	6	4	0	10	59	3				
CHARTERS TS.	31.29	132.6	6	6	-3	11	8	4				
NANKING	31.40	354.3	6	11	1							
MUNDARING	32.95	189.5	6	20K	-3							
CHENG TU	34.49	331.6	6	37	1	11	59	5				
SIAN	35.67	340.9	6	47	1	12	20	8				
ABUYAMA	36.24	18.7	6	49K	-2							
CHITTAGONG	36.63	308.2	6	54	0	12	35	9	7 18		8	45 PPP
TOCKLAI	37.02	316.7	7	4K	6							

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1961		PAGE 933											
MATUSIRO	38.64	20.8	7	8	-3	12	56	-1			9	21	PCP
ADELAIDE	38.65	158.1	7	9K	-2	13	1	4			15	39	SS
HONIARA	38.86	105.9	7	10	-3								
TUKUBASAN	39.07	23.2	7	12	-3	13	5	2			7	33	
LANCHOW	39.15	336.1	7	16	1	13	3	-1					
CALCUTTA	39.47	305.8	6	59	-19	13	19	10			7	48	
HOWRAH	39.52	305.8	7	21	3						9	0	PP
PEKING	39.57	352.7	7	19	0	13	16	5					
BRISBANE	40.49	135.9	7	17	-9	13	21	-3					
LHASA	41.39	317.0	7	36	2	13	46	8					
VI SHAKHPTNM	41.87	296.1	7	36K	-2	13	57	13			9	18	PP
MIZUSAWA	42.00	22.1	7	41	2	13	22	-25					
CHATRA	42.58	310.6	6	45A	-58								
CHANGCHUN	43.07	3.2	7	47	0	14	5	3					
VLADIVOSTOK	43.15	10.3									9	29	PP
MADRAS	43.44	288.2	7	51A	1	14	18	11			9	46	PP
CANBERRA	43.65	147.8	7	51A	-1	14	16	6	8	13	9	35	PP
MELBOURNE	43.67	153.7	7	52	0	14	17	6					
RIVERVIEW	43.75	144.4	7	54K	1	14	21	9	8	15	17	38	SS
HYDERABAD	46.18	293.7	8	14	2	14	58	11			9	58	PP
KOUMAC	46.21	119.6	8	11A	-2						10	10	
TARRALEAH	48.02	155.8	8	28	1						8	57	
MOORLANDS	48.44	155.3	8	39K	9						9	22	
NOUMEA	48.74	120.8	8	31K	-1						8	58	
PORT VILA	48.88	114.3	8	32A	-1								
FORT NELSON	48.91	155.6				15	31	6			18	48	SS
ULAN-BATOR	48.92	346.3	8	34	0								
SEHORE	49.21	300.5	8	36	0								
Y.-SAKHLINSK	49.51	18.3	8	37	-1								
POONA	50.69	293.5	8	45	-2	15	58	8					
UGLEGORSK	51.16	16.6	8	50	-1	15	58	2					
NEW DELHI	51.19	307.0	8	49A	-2	16	0	4			19	32	SS
DEHRA DUN	51.27	309.4	8	53	2	16	5	7			11	45	PPP
BOMBAY	51.73	293.6	8	55	0	16	9	5			16	39	PS
IRKUTSK	53.58	346.4	9	6	-3				9	32	17	6	PS
LAHORE	54.68	309.1	9	16	-1	16	50	6	9	43			
WARSAK DAM	57.82	310.6	9	41	2								
FRUNSE	59.77	321.0	9	52	0	18	1	11	10	21			
QUETTA	60.09	304.8	9	54	-1	18	4	10	10	22	12	13	PP
PETROPAVLOVK	60.31	24.4	9	55	-1	17	55	-2					
SEMIPALATNSK	61.03	330.7	9	59	-2								
YAKUTSK	61.46	4.0	10	1	-3	18	16	4	10	21			
KARAPIRO	62.25	134.2	10	8	-1				10	29			
CHATEAU	62.79	135.5	10	13	0								
WELLINGTON	63.19	137.9	10	14	-1								
TUAI	63.76	134.5	10	17	-2				10	40			
AFIAMALU	66.88	105.3	10	18	-21				10	37			
ASHKABAD	69.22	310.6	10	54	1	19	52	6	11	23			
TIKSI	70.99	2.2	11	1	-3	20	6	-1			20	42	PS
SHIRAZ	72.11	300.9	11	10A	-1	20	7	-13	11	34	13	43	PP
TEHERAN	74.13	307.0	11	21	-2	20	51	9					
SVERDLOVSK	74.28	329.8	11	21	-2	20	48	4			14	24	PP
TANANARIVE	75.75	250.4	11	29	-3				11	53	12	50	
GORIS	78.73	310.1	11	48	0						16	7	
CAPE HALLETT	78.83	166.6	11	47	-2	21	41	8			27	11	SS
MAWSON	79.36	199.6	11	52A	0				12	24	11	59	PCP
HONOLULU	80.12	68.6	12	18	22								
TIFLIS	80.20	312.1	11	56	0	21	57	9			15	12	PP
KIPAPA	80.20	68.5	12	18	22								
SCOTT BASE	81.96	171.4	12	6K	1	22	7	1	12	27	22	59	SP
HAWAII V.OB.	82.69	70.6	12	11	2								
MOSCOW	86.42	325.6	12	26	-2	22	50	0	12	48	23	25	SS
KSARA	86.61	303.7	12	30	1	22	56	5	12	58	15	47	PP
JERUSALEM	87.12	301.6	12	32	1				13	0			
SIMFEROPOL	88.21	314.8	12	38	2	23	13	7	13	4	16	18	PP
APATITY	88.94	337.4	12	39	-1								
COLLEGE	89.38	25.3	12	41	-1				13	4	14	59	
PULKOVO	90.41	329.6	12	50	3						16	29	PP
HELWAN	90.47	299.7	12	47	0	23	39	12					
SOUTH POLE	90.66	180.0	12	47	-1								
KEVO	91.20	339.7	12	49	-1								
KAJAANI	91.40	334.0	12	52	1								
SODANKYLA	91.57	337.3	12	44	-8				13	12	30	11	PKKP
ISTANBUL KA.	91.97	310.9	12	53	-1	23	43	3	13	19	16	37	PP
NURMIJARVI	93.17	330.6	12	59	0								
BULAWAYO	93.64	250.0	13	0	-1								
BROKEN HILL	93.82	255.7	13	1	-1								
KIRUNA	93.85	338.1	13	0	-2	23	49	-8			30	18	SS

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1961										PAGE 934	
BUCHAREST	93.94	314.4	13	6	3	24	30	33			17 0 PP
LWOW	94.81	320.0	13	6	-1	23	37	-28			24 42 S
BYRD STATION	95.38	171.1	13	8	-1						24 30
ATHENS	96.32	308.2									17 32 PP
WARSAW	96.36	322.6									16 27
UPPSALA	96.75	330.5				24	18	40			
NI EDZIKA	97.25	319.9	13	17	-1						13 47
SKALNATE PL.	97.34	319.7	14	18	60						
KRAKOW	97.40	320.6	13	19	0						17 25
BELGRADE	97.90	315.3									15 35 PP
SKAL STUGAN	98.19	334.9	13	24	2						
BRATI SLAVA	99.58	319.1	13	56	28						
VIENNA-H.	100.04	319.2	13	59	28						
COPENHAGEN	100.51	327.2				24	41	44			18 12 PP
PRUHONICE	100.81	321.2	14	3	29						18 9 PP
COLLMBERG	101.42	322.8	13	37A	0				14	5	17 49 PP
KASPERSKA H.	101.63	320.6	14	5	27						
LJUBLJANA	101.76	317.3	14	1	23						17 53 PP
HALLE	102.00	323.2	13	54	15	24	49	45			
TRIESTE	102.38	317.1	14	10	29	24	51	45			18 22 PP
JENA	102.38	322.7	14	2	21	25	16	70	14	10	17 49 PP
MESSINA	102.67	309.3				24	12	5			17 52 PP
BANGUI	103.54	274.6	14	17	31						18 23 PP
PADOVA	103.72	317.2									19 43
ROME	104.17	313.6				24	23	9			17 53 PP
MUNSTER	104.41	324.5									18 7
STUTTGART	104.45	321.0	14	39	49				14	59	
BENSBERG	105.02	323.6	14	3	777						18 40 PP
STRASBOURG	105.46	321.2	18	29	777						
DE BILT	105.76	325.2				25	53	92			33 43 SS
ROSELEND	106.55	318.2	18	30	777						19 3
ISOLA	107.36	317.0									18 15 PP
SHASTA	108.55	46.4	18	29	777						
PARIS	108.63	322.7									19 7 PP
GARCHY	108.88	321.1									19 15 PP
KEW	109.13	326.1									26 16
MINERAL	109.24	46.6	18	35A	777						
CLERMONT-FD.	109.42	319.6	14	52	777						
BERKELEY	109.49	49.3	19	5	777						
LICK	110.11	49.7	18	33A	18						
HUNGRY HORSE	111.21	36.5	18	23	6						14 42 P
BUTTE	113.16	38.3	18	43	22						
EUREKA	113.60	45.9	18	24	3						19 32 PP
PASADENA	113.77	52.0	18	23	1	25	42	48			19 18 PP
BOZEMAN	114.26	38.1	18	26	3						
BOULDER CITY	115.73	49.1	18	29	3						
TOLEDO	116.63	316.1	18	29	2				18	54	29 46
ALMERIA	116.74	312.4	18	27	-1						19 38 PP
RAPID CITY	119.84	36.3	18	55	21						
TUCSON TELE.	120.25	51.5	18	36	2						
MANHATTEN	126.73	37.4	18	48	1						
DUBUQUE	127.80	30.6	18	51	2	27	40	119			
WICHITA MTS.	128.07	43.2	18	50	1	25	49	8			21 9 PP
FAYETTEVILLE	130.16	39.0	18	57A	4						22 50
ROLLA	130.36	35.6									21 17 PP
SHAWINIGAN	131.17	13.7	19	0	5						
BREBEUF	131.94	15.0	18	59A	2						
C. GIRARDEAU	132.13	34.5									21 35 PP
LITTLE ROCK	132.15	39.1	18	51	-6						22 48 PKS
BLOOMINGTON	132.38	30.4									24 39
HALI FAX	134.62	5.9	19	28	26						
PENNSYLVANIA	134.86	21.6	19	32	30						22 29 SKP
MORGANTOWN	135.05	24.4	18	52A	-11						21 51 PKS
PALI SADES	136.00	17.6									22 31 PP
WASHINGTON	136.82	22.2	19	32	26						22 35 PP
MBOUR	136.96	292.0									22 20 PP
COLUMBIA	139.18	30.1	19	30	20						
GALERAZAMBA	159.20	56.4									24 23 PP
HUANCAYO	159.21	123.7				20	8				25 10 PKP2
SAN JUAN	159.37	23.1	20	5	24						24 32 PP
LA PAZ	161.23	147.5	19	47	4						23 20 PKS
CHINCHINA	161.30	72.4	19	45	2						
BOGOTA	162.88	72.0									31 1 SKKS
CARACAS	165.64	39.2	20	8	21						
TRINIDAD	168.19	17.8	19	53	4						25 10 PP

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1961

PAGE 935

SEPTEMBER 29 22.H 36.M 16.S EPICENTRE 28.33 88.05 DEPTH= 0.KM

A= 0.02993 B= 0.88103 C= 0.47212 D= 0.9994 E=-0.0340
G= 0.0160 H= 0.4718 K=-0.8815 HT= 2.4

SE= 3.19

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
CHATRA	1.69	207.9	0	37A	6	0	57	3			0	44 PP
LHASA	2.92	62.8									0	59 PG
SHILLONG	4.38	128.1	1	3	-7	1	49	-13				
HOWRAH	5.76	177.6	1	32	3							
CALCUTTA	5.79	177.1	1	32	3	2	31	-7				
TOCKLAI	6.17	103.2	1	35	0	2	32	-15				
CHITTAGONG	6.85	149.4	1	47K	2	2	54	-10				
DEHRA DUN	8.95	285.2	2	18	4	3	49	-8			4	1 SS
NEW DELHI	9.56	274.0	2	21A	-1	4	2	-10			2	37 PPP
SEHORE	11.14	245.0	2	41	-3	4	40	-11			4	52 SS
VISHAKHAPTNM	11.43	203.5	2	48	0	4	41	-17			4	56 SS
LAHORE	12.33	288.4	3	0	0	5	6	-13				
KUNMING	13.51	100.3	3	18	2	5	38	-10				
CHENG TU	14.09	76.7	3	23	0	5	49	-13				
WARSAK DAM	15.21	295.9	3	40	2							
POONA	16.27	236.2	3	48	-4	6	38	-15				
BOMBAY	16.81	239.3	3	51	-8						7	1
MADRAS	16.93	207.3	3	59	-1	6	54	-14			4	16 PPP
QUETTA	18.51	280.8	4	20	0	7	29	-15	4	42		
SIAN	18.77	66.5	4	19	-4							
ULAN-BATOR	24.42	31.7	5	26	5							
SHIRAZ	31.04	281.1	6	23A	1	11	18	-9	6	44		
CHANGCHUN	33.53	52.5	6	33	-11							
MATUSIRO	42.72	65.7	8	1	0							
KSARA	44.63	290.6	8	11	-5						8	42
JERUSALEM	45.49	287.9									8	47
HELWAN	49.15	286.3	9	4	12							
KAJAANI	51.99	331.0	9	14	1							
HELSINKI	52.53	325.8	9	18A	1							
NURMI JARVI	52.73	326.2	9	19A	0							
SODANKYLA	53.24	334.9	9	23	0							
KEVO	53.76	337.8	9	27	0							
NIEDZIKA	54.85	312.3	9	36	1						10	12
TROMSOE	56.48	336.9	9	47	1							
PRUHONICE	58.52	313.5	10	1	0						14	52
KASPERSKE H.	59.27	312.6	10	6	0							
COLLMBERG	59.32	315.1	10	4	-2							
HALLE	59.94	315.5	10	11	0				10	34		
STUTT GART	62.12	312.8	10	26	1							
CHARTERS TS.	74.02	123.8	11	41	1							
COLLEGE	77.54	21.2	12	0	0							
CANBERRA	85.51	134.2	12	42	1				13	6		

SEPTEMBER 30 13.H 13.M 14.S EPICENTRE 40.32 142.19 DEPTH= 73.KM

A=-0.60410 B= 0.46875 C= 0.64446 D= 0.6130 E= 0.7901
G=-0.5092 H= 0.3951 K=-0.7646 HT= -1.8

DEPTH OF FOCUS= 0.006R

SE= 4.06

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
HATI NOHE	0.55	293.2	0	10K	-5	0	20	-7				
MIYAKO	0.69	194.4	0	8	-8	0	16	-13				
MORIOKA	1.00	232.2	0	14K	-5	0	27	-7				
AOMORI	1.19	295.6	0	21	-1	0	38	0				
MI ZUSAWA	1.44	215.0	0	22	-3	0	39	-5				
AKITA	1.71	250.3	0	30	1	0	53	3				
HAKODATE	1.84	324.5	0	30K	0	0	55	2				
URAKAWA	1.89	13.4	0	32	1	0	57	3				
ISINOMAKI	2.00	200.0	0	39	7	0	52	-5				
HIROO	2.14	23.1	0	35	1	0	58	-2				
MORI	2.16	326.1	0	36	1							
MURORAN	2.20	335.9	0	35	0	1	2	0				
SENDAI	2.28	206.5	0	33	-3	1	1	-2				
SAKATA	2.31	233.0	0	35	-2	1	6	2				

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1961		PAGE 936					
TOMAKOMAI	2.36	349.0	0	41	4		
YAMAGATA	2.51	215.3	0	37A	-3	1	7 -2
OB IHIRO	2.71	15.9	0	40	-2	1	20 6
SAPPORO	2.82	347.4	0	47	3	1	21 4
SUTTSU	2.89	330.0	0	52	7		
HUKUSIMA	2.89	208.2	0	43	-2	1	24 5
KUSIRO	3.13	31.2	0	45	-3	1	19 -6
NI IGATA	3.42	226.6	1	4	12	1	46 14
ASAHI GAWA	3.46	2.2	0	55	2		
ONAHAMA	3.51	197.1	1	5	12	1	31 -3
SHIRAKAWA	3.54	206.4	0	52	-2	1	34 -1
RUMOE	3.66	353.5	0	57	1	1	41 3
AI KAWA	3.83	234.4	1	0	2		
NEMURO	3.94	39.0	0	58	-1	1	37 -8
MITO	4.16	199.5	0	57	-5		
UTUNOMIYA	4.18	206.6	1	0	-3	2	0 9
KAKIOKA	4.38	201.8	1	1	-4	2	1 5
TAKADA	4.45	225.1	1	5	-2		
MAEBASI	4.61	213.1	1	11	2	2	22 20
TYOSI	4.71	193.4	1	21	11		
KUMAGAYA	4.71	208.9	1	6	-4	2	12 8
NAGANO	4.80	222.0	1	11	0	2	37 31
MATUSIRO	4.90	220.9	1	11A	-2	2	14 5
OI WAKE	4.90	216.9	1	17	4		
TITIBU	4.97	210.5				2	6 -5
TOKYO C.M.O.	5.01	203.4	1	12	-2	2	7 -5
YOKOHAMA	5.27	203.2					
TOYAMA	5.32	228.9	1	12	-7		
KOHU	5.45	212.9	1	22	2	2	24 1
HUNATU	5.52	210.4	1	43	22	2	26 2
MISIMA	5.79	207.4	1	31	6		
AJIRO	5.80	206.0	1	20	-5	2	22 -9
IIDA	5.90	217.1	1	39	12	2	41 7
SHIZUOKA	6.12	210.6					
GIHU	6.52	222.8	1	27	-8		
OMAESAKI	6.52	210.2					
NAGOYA	6.59	220.5	1	33	-3		
ABUYAMA	7.56	226.1	1	47A	-3		
COLLEGE	46.01	33.9	8	18	0		
CHATRA	47.08	271.0	8	26K	0		
NEW DELHI	53.77	278.9	9	15A	-2		
WARSAK DAM	55.30	287.6	9	28	0		
ALERT	56.82	3.8	9	38K	-1		
RESOLUTE	59.28	15.0	9	54	-2		
QUETTA	60.59	286.0	10	5	0		
SODANKYLA	62.19	336.8	10	15	-1		
KAJAANI	63.92	333.6	10	26	-1		
NURMI JARVI	67.35	331.6	10	48	-1		
EUREKA	73.34	52.2	11	26	1		
WOODY	73.88	56.8	11	27	-2		
FLAMING GRGE	76.26	47.7	11	42	0		
RAPID CITY	77.45	42.2	12	2	13		
COLLMBERG	78.56	330.2	11	55	0		
KASPERSKE H.	80.07	328.6	12	4	1		
LJUBLJANA	82.12	326.2	12	14	0		

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

A digital hypocenter file of the ISS (Villaseñor and Engdahl, 2005) can be obtained from the USGS web site: <http://earthquake.usgs.gov/scitech/iss/>

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

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