

UNIVERSITETET I BERGEN
JORDSKJELVSTASJONEN
(Seismological Observatory)

Seismological Bulletin
Lillehammer, Norway
Jan. 1968 — May 1969

By
Atle Austegard and Helge Johnsen

BERGEN — NORWAY 1970

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LILLEHAMMER (LHN), NORWAY

Latitude: 61° 02' 57" N
 Longitude: 10° 52' 48" E
 Elevation: 555 meters
 Foundation: Slate

Instrument:	Weight of mass in kg	Period sec		Magnification at Ts	Damping	Film speed mm/min
		Ts	Tg			
Benioff vertical	107.5	1.0	0.2	125000	15 : 1	15
Benioff horizontal (Az = 138°)	100.0	1.0	0.2	125000	15 : 1	15
Benioff horizontal (Az = 228°)	100.0	1.0	0.2	125000	15 : 1	15
Sprengnether vertical	11.2	20	30	15000	Critical	3
Sprengnether horizontal	10.7	20	30	15000	Critical	3
Sprengnether vertical (Az = 138°)	10.7	20	30	15000	Critical	3
Sprengnether horizontal (Az = 228°)	10.7	20	30	15000	Critical	3

The station began its normal operation in August 1963 and was at that time called 00 NW Oslo. The Geotechnical Corporation undertook the installation of the station and also the operation of it until April 1, 1965. At that date the operation of the station was taken over by Seismological Observatory, University of Bergen, on an Advanced Research Project Agency (ARPA) contract, through the European Office of Aerospace Research, expiring December 31, 1966. After that date the station has been operated by funds of the University of Bergen.

The data given in this bulletin refer to the position and instrumentation mentioned above (array-site Z 3). The recordings are obtained by 35 mm film recorders. Both the short and the long period systems include phototube-amplifiers having a galvanometer with periods 0.2 and 30 sec. respectively. The exact time of some few phases, however, is read from the recordings obtained by two other recording systems. The station comprises, besides the already mentioned instrumentation, 6 other identical vertical Benioff seismometers placed around the quoted position making it into a 7 element crossed array of seismometers with a spacing of 1 km. All this data are recorded on an IRIG standard one inch wide 14 channel FM-modulated magnetic tape at a speed of 0.3 inch/sec, and all short period data are also recorded on 16 mm film by a Develocorder using galvanometers with a natural frequency of 16 cps and a film speed of 30 mm/min.

The arrival time given for each phase is the earliest onset of that phase on any component. The logarithm of the amplitude/period ratio, log(A/T) is given when possible. The amplitude A (in millimicrons) is calculated from the vertical short-period component as the maximum center to peak ground motion within the first few cycles of the initial arrival of P or PKP. The predominant period T (in seconds) of the phase is read where A is observed.

The readings have been punched on cards according to the codes given by the International Seismological Centre in Edinburgh. This bulletin is a reproduction of a print-out of these cards. Only capital letters are used on the print-out and pP for example is therefore printed as *PP. Some columns on the punched cards have been used for remarks. Usually the remarks give the epicenter or region assumed in the interpretation. Most epicenters quoted are determinations done by U.S. Coast & Geodetic Survey, Bureau Central International Seismologique, Uppsala Seismological Institute, or they are worked out at Bergen.

The station was closed down in May 1969 mainly because it was situated within the site of the new NORSAR-station.

LILLEHAMMER (LHN) SEISMIC STATION BULLETIN - 1968

1968 MTH	DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
JAN	2	00	39 52.2C		PS 51 20	SS 57 40			5,1S 153,4E
JAN	2	03	01 00	03 23					NORWEG. SEA
JAN	2	07	41 07.8D						45,7N 150,9E
JAN	2	11	57 08.6D						40,5N 140,8E
JAN	2	19	41 53.2C						
JAN	3	04	12 18		I 12 27	I 14 20	I 14 51		72,3N 6,5E
JAN	3	07	40 42.0D	42 53	I 40 51				72,2N 1,2E
JAN	3	07	59 23.6C						54,9N 161,5E
JAN	4	01	08 35.8D	17 28	I 08 43	PCP 09 01	SS 22 16		52,2N 171,3W
JAN	4	06	42 06.5C						NORWEG. SEA
JAN	4	09	56 56						31,6N 138,3E
JAN	4	12			I 53 42				30,4S 177,6W
JAN	4	19	46 33.5C						CRETE
JAN	5	06	52 07						30,4N 79,1E
JAN	5	09	28 33.7C		*PP 28 43				55,9N 154,6W
JAN	6	10	27 46.8C		I 27 50				45,8N 26,6E
JAN	6	15	15 10						GREECE
JAN	6	15			PCP 25 02				16,4N 92,1E
JAN	6	23		52 38	PP 46 28	PS 55 56	PPS 56 42		27,8S 71,1W
JAN	7	03	54 18.4D						49,8N 78,0E
JAN	7	04	16 10.1D		I 16 13				37,6N 114,9E
JAN	7	07	52 11.0D						43,7N 134,0E
JAN	7	10	15 11		PS 26 12	SS 33 12			5,1S 153,9E
JAN	7	11	24 26.2C						33,5N 141,6E
JAN	7	21	49 44.6C						46,1N 150,8E
JAN	8	03	35 15.9C		SKP 37 44				13,7S 171,5E
JAN	8	14	00 57.7D						49,1N 151,3E
JAN	8	18		08 42	S 09 42	PKKS 17 36			18,6S 69,9W
JAN	8	20	32 47.6D	41 34	P 32 49	P 32 57	I 33 03		8,2N 38,2W
JAN	8	20			PG 42 49	SG 43 52			65,6N 4,0E
JAN	9	23	21 18		I 21 23				35,5N 22,5E
JAN	10	06		58 28	PG 58 04	SB 58 33			WEST NORWAY
JAN	10	09	51 16.0C		I 51 18	*PPKP 51 37			29,2S 177,6W
JAN	10	15	20 30.0C						13,8N 120,6E
JAN	11	16			SG 12 44				66,4N 14,8E
JAN	11	16	24 32.0C		*PP 24 51				34,3N 141,2E
JAN	11	18	19 37.1C		I 19 48				46,4N 153,3E
JAN	12	03	10 08.8D		PCP 10 23				33,6N 132,2E
JAN	12	03	24 47.0D		I 25 06				27,2S 177,2W
JAN	12	04	29 24						13,4N 93,1E
JAN	12	17			SG 51 26				66,4N 14,8E
JAN	13	07	15 44.9C	25 46	*PP 15 59	PP 18 50	PPP 20 46	1.8	24,1N 122,2E
JAN	13	09			I 20 03	I 20 13			
JAN	13	13			I 00 16	I 00 27			
JAN	13	16		31 20	PP 25 34	PKKP 36 04	SS 40 28		24,2S 66,9W
JAN	13	20	58 16.9D						42,4N 141,3E
JAN	14	08	19 45.9C		SKP 22 31				22,5S 179,6W
JAN	14	12	33 30.8C	37 49	I 33 35				37,8N 13,1E
JAN	14	12		49 58	I 39 34	PP 44 08	PS 53 28		7,5S 127,9E
JAN	14	13	20 52.9D		I 20 56				37,7N 13,1E
JAN	14	15	53 37.0C	57 50	I 53 39				37,9N 13,1E
JAN	14	17	54 02	02 56	SS 07 14	SSS 10 18			52,7N 171,2W
JAN	15	01	38 07.5C	42 12	I 38 09	PP 38 52	LR 44 14		37,9N 13,1E
JAN	15	02	06 12.5D	10 30	I 06 17	PP 06 53			37,9N 13,1E
JAN	15	03	23 46.1D						37,9N 13,1E
JAN	15	15	04 54.0D						
JAN	15	18	28 00.1C						SICILY
JAN	15	19	44 31.6C		I 44 34				37,7N 13,1E
JAN	15	22	25 02.4C						37,8N 115,3E
JAN	16	13	15 37						37,8N 12,9E

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1968 MTH DY HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
JAN 16 13			PG 16 02	SG 16 41	I 16 57		58,0N 8,0E
JAN 16 14			PG 31 25	SG 31 42			
JAN 16 16	47 51.2D	52 12	I 47 54				37,9N 13,1E
JAN 16 17			E 36 34				NORTH. NORTH.
JAN 17 03	10 03.1C						38,7N 103,3E
JAN 17 13			PG 19 09	SG 19 47			
JAN 17 18	07 54.4D						35,9N 140,1E
JAN 18 02	16 03.8D						22,3S 179,1W
JAN 18 12			PG 55 54	SG 56 36			57,9N 6,9E
JAN 18 14			PG 08 32	SG 08 47			
JAN 19 06	23 32.0C	30 44	I 23 43	PP 25 24	SKKS 32 10		9,4S 158,4E
JAN 19 09			SG 37 33				58,9N 17,4E
JAN 19 16	15 57.9D						
JAN 19 18	26 23.8C		PCP 26 40			2.5	NEVADA
JAN 19 20	41 34.3D						
JAN 20 21	40 32.3D		I 40 36				29,9S 179,5W
JAN 21 04	38 02.3C		*PP 38 17				23,8N 141,7E
JAN 21 16	53 08.6C	01 48	I 53 13	I 53 21	PP 55 40		1,2S 14,0W
JAN 21 23	13 55.9D						5,0S 150,8E
JAN 21 23	56 53.0D						15,6N 92,3W
JAN 21 23	57 28						16,8N 92,3W
JAN 22 02	36 58.1D						30,8N 138,6E
JAN 22 07	24 56.5C						34,9N 5,2W
JAN 22 10	43 45.6C						38,2N 75,6E
JAN 22 16			SG 20 46				66,4N 14,8E
JAN 22 20	41 07.0C					1.6	33,8N 46,9E
JAN 22 21	27 38.4D					1.5	33,7N 46,8E
JAN 22 23	53 08.8C						70,3N 144,4W
JAN 23 03	33 18.0D						26,0N 95,5E
JAN 23 11	56 49.9D						35,7N 140,0E
JAN 23 16	17 40	26 52	PCP 18 07	SS 31 38			52,1N 171,3W
JAN 23 19	27 45.9C		*PP 27 58				40,8N 142,8E
JAN 23 19	27 47.5D		I 27 52				8,7N 37,7E
JAN 24 01	09 34.1C					1.7	8,1N 38,1W
JAN 25 10	01 55.0C	06 12	I 01 58				37,8N 13,2E
JAN 25 10	09 26.2D						
JAN 25 14	40 39.2C						37,8N 12,9E
JAN 26 04		10 48	PKKP 15 00				8,8S 120,4E
JAN 26 08	06 56.2C						36,4N 138,2E
JAN 26 12	43 07.9D		I 43 12				24,3N 111,5W
JAN 27 08	01 12.9C						
JAN 27 14	08 25.4C	18 28	I 08 31	*PP 08 36			23,2N 121,6E
JAN 29 05	07 58.9C		I 08 25	*PP 08 46	I 09 11	2.7	36,3N 70,4E
JAN 29 10	30 12.4C	39 22					43,6N 146,7E
JAN 29 10	53 18.2C		*PP 53 30			2.4	43,2N 147,2E
JAN 29 11	09 42.6D						
JAN 29 11	36 33.2C						43,6N 147,2E
JAN 29 11	55 09.0D						43,4N 147,3E
JAN 29 12	18 19.0D						43,2N 147,3E
JAN 29 14	21 42.0D						43,5N 146,7E
JAN 29 14	55 02.0D		*PP 55 13				43,1N 146,9E
JAN 29 16			I 03 10				33,8S 179,3W
JAN 29 16	53 59.0C		I 54 08	PCP 54 25			43,5N 147,2E
JAN 29 17	25 16.0D						43,4N 147,3E
JAN 29 19	50 28.2D						43,3N 147,3E
JAN 29 20	55 15.8C		*PP 55 27				43,4N 147,3E
JAN 29 21	02 45.1C						56,4N 153,6W
JAN 29 22	38 46.5D		*PP 38 57				43,0N 147,2E
JAN 29 22	49 20.3D		*PP 49 31				43,0N 147,1E
JAN 30 01	41 25.5C		*PP 41 36				43,3N 146,8E

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1968 MTH DY HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
JAN 30 01	59 39.9D				I 59 55		43,3N 147,7E
JAN 30 02	31 43.1C						43,4N 147,7E
JAN 30 02	49 23.0C						43,3N 147,7E
JAN 30 02	53 37.1C						43,6N 147,6E
JAN 30 03	04 57.5C					2.2	43,4N 147,6E
JAN 30 03	12 56.0C				*PP 13 07		43,1N 147,2E
JAN 30 03	34 32.8C					1.9	43,3N 147,4E
JAN 30 03	41 01.0D						
JAN 30 03	57 13.2C						6,1S 113,3E
JAN 30 04	06 28.5D						
JAN 30 04	13 15.2C						
JAN 30 04	21 49.0D				*PP 21 59		KURILE ISL.
JAN 30 06	19 44.0C					2.1	43,5N 147,1E
JAN 30 08	25 24.1D					2.3	36,4N 70,7E
JAN 30 09	17 40.8D						43,0N 146,9E
JAN 30 11	45 49.2C						43,4N 147,0E
JAN 30 18	46 14.1C				I 46 19	*PP 46 25	43,0N 147,2E
JAN 30 22	39 06.3D						CAUCASUS
JAN 31 01	36 07.1D						24,7N 111,5W
JAN 31 05	06 53.9C					2.0	43,5N 147,6E
JAN 31 06	32 54.4C						
JAN 31 11	55 25.1C				*PP 55 31		43,5N 146,6E
JAN 31 16	30 39.1D				*PP 30 50		29,9N 92,1E
JAN 31 20	15 42.0C						43,1N 146,7E
JAN 31 22	09 37.0C				*PP 09 50	PCP 09 59	KURILE ISL.
JAN 31 23	15 53.0C						43,0N 147,8E
FEB 1 12	58 33.0C				I 58 49		43,2N 146,8E
FEB 1 19	13 21.1C				I 13 23	*PP 13 32	43,2N 146,9E
FEB 1 19	43 09.0C					1.6	42,9N 147,0E
FEB 2 14		28 55	PG 28 38	SG 28 52			43,0N 146,9E
FEB 2 15	48 07.3D				*PP 48 21		43,2N 146,6E
FEB 2 17					SG 48 57		66,4N 14,8E
FEB 2 20	26 37.6D				*PP 26 48		43,2N 147,0E
FEB 3 03	37 14.0C				PCP 37 45		46,6N 152,6E
FEB 3 05	48 53	59 28			I 49 31	I 50 43	16,7N 99,4W
FEB 3 11	41 54.2C				*PP 42 03		43,2N 146,8E
FEB 3 15	52 54.3D				*PP 53 26		16,6N 93,5W
FEB 4 07					I 16 18		43,8N 145,8E
FEB 4 09	21 36.0C				*PP 21 48		43,2N 147,2E
FEB 4 11	12 00.7C	21 23			I 12 02	PP 14 48 PPP 16 26	43,0N 147,1E
FEB 4 11	17 32.7C				*PP 17 44		43,1N 147,0E
FEB 4 11	19 29.0C				*PP 19 40		KURILE ISL.
FEB 4 11	28 59.0				E 29 10		
FEB 4 14	05 57				*PP 06 06		42,9N 147,2E
FEB 4 20	26 18						JAPAN
FEB 6 06	56 01.6C						55,0N 162,1E
FEB 6 09	58 12.2D				PP 00 27		55,0N 161,9E
FEB 7 00	34 48.5C						21,6N 142,9E
FEB 7 12	26 27.9D						43,0N 146,8E
FEB 7 12	31 00.8D					1.9	36,2N 70,7E
FEB 7 16			SG 23 50		I 23 58		66,4N 14,8E
FEB 7 22	27 41.2C				I 27 51	SCP 34 29	36,7N 26,8E
FEB 8 11	07 53						14,6N 57,9E
FEB 8 12	15 22.7C				*PP 15 35	PP 18 02	43,2N 147,2E
FEB 8 12	37 57.3D	45 52			PP 40 10	PPP 41 18 SS 49 45	43,6N 54,0E
FEB 8 13	32 07.9C				*PP 32 18		43,2N 147,4E
FEB 8 14	58 02						02,4S 23,5E
FEB 8 17					I 34 50		
FEB 8 23	11 42						44,7N 152,2E
FEB 9 13	26 54.9D				I 26 57		45,6N 26,4E

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1968 MTH	DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
FEB 9	14	48	30						29,8N 68,7E
FEB 9	15	43	42		I 43 50				53,5N 169,7E
FEB 10	07	29	40						52,0N 173,9E
FEB 10	10	11	01.4C		*PP 11 27	PCP 11 37			46,0N 152,3E
FEB 10	17	11	57.0D				1.3		34,1N 78,5E
FEB 10	20	27	57		PKS 31 26				14,7S 166,5E
FEB 11	12	25	34.6D		*PP 27 27	PP 28 49	1.8		28,0N 139,5E
FEB 11	19	02	46						33,9S 179,4W
FEB 11	20	47	21.6D				1.4		34,2N 78,6E
FEB 12	05	59	48	10 20	I 59 54	PKP 03 29	PP 04 28		05,5S 153,2E
FEB 12	10	24	01.3D		I 24 16		2.4		38,1N 17,8E
FEB 12	16	31	09						37,9N 13,1E
FEB 13	11	41	14.7D						41,4N 142,0E
FEB 13	12				I 03 19				LOCAL
FEB 13	15				I 38 01	I 38 16			43,2N 146,6E
FEB 14	08				I 29 20				
FEB 14	09				I 29 51	I 30 01			JAN MAYEN
FEB 15	15	55	59.1		*PP 56 12				47,1N 153,3E
FEB 16	14	33	23.0D		*PP 35 21				49,7N 147,7E
FEB 19	12				E 08 05				
FEB 19	14	59	52.6D				1.4		38,3N 141,8E
FEB 19	22	50	50.6D		I 50 54		2.0		39,4N 25,0E
FEB 19	23	14	58						AEGEAN SEA
FEB 19	23	17	39.3D		I 17 47				AEGEAN SEA
FEB 19	23	26	11.6D				1.9		AEGEAN SEA
FEB 19	23				E 31 44				
FEB 19	23	37	12.8D				1.7		AEGEAN SEA
FEB 19	23	38	48.1D				1.4		
FEB 19	23	39	31.0C				1.6		AEGEAN SEA
FEB 19	23	43	27.1D				1.4		
FEB 19	23	51	19.7C				1.5		
FEB 19	23	51	53.6D				1.7		39,4N 25,4E
FEB 19	23	58	57.0C				1.6		
FEB 20	00	07	34.6C				1.5		AEGEAN SEA
FEB 20	00	23	55.5D						
FEB 20	00	27	12.8D				1.5		
FEB 20	00	44	19.2C		I 44 23		1.8		39,7N 25,2E
FEB 20	00	49	44						
FEB 20	01	15	58						39,4N 25,9E
FEB 20	01	33	36.4D						
FEB 20	02	02	20				1.9		39,6N 25,4E
FEB 20	02	27	01.5C				1.4		12,4N 46,9W
FEB 20	02	30	24.6C				1.5		AEGEAN SEA
FEB 20	02	34	36.4C						AEGEAN SEA
FEB 20	03	21	21						
FEB 20	03	52	27		*PP 16 28				58,4N 151,7W
FEB 20	05	16	17		I 36 30				
FEB 20	05	36	26		I 20 58				39,5N 25,1E
FEB 20	06	20	52						
FEB 20	06	34	22						
FEB 20	09	34	36						
FEB 20	09	40	57		I 41 01				39,3N 24,9E
FEB 20	09	46	16.0D						39,4N 24,9E
FEB 20	10	49	19.5						
FEB 20	11	01	07						
FEB 20	15	03	30						
FEB 20	16	56	22.0D		I 56 29				36,2N 27,5E
FEB 20	17	41	48.4D				1.5		41,2N 142,6E
FEB 20	21	10	32.9C		I 10 42		1.6		39,0N 25,1E
FEB 20	23	39	32.2C				1.2		38,2N 135,2E

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PAGE

1968 MTH	DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
FEB 21	00	22	38.4C					1.8	39,5N 25,1E
FEB 21	01				E 05 35	E 06 32			GREECE-ALB.
FEB 21	01	56	34.8D	06 18	PPP 01 34				32,0N 130,6E
FEB 21	03	33	57.6C					1.5	
FEB 21	05	43	24						AEGEAN SEA
FEB 21	06	00	34.9D					1.3	
FEB 21	06	31	45.6D		*PP 32 17				52,3N 175,3W
FEB 21	07	24	02		I 24 14				AEGEAN SEA
FEB 21	12	35	01		I 35 22				
FEB 21	12	41	03.2C		I 41 06			1.7	AEGEAN SEA
FEB 21	13			02 51	PP 00 53				71,4N 2,0W
FEB 21	15	41	30.4C					2.0	NEVADA
FEB 21	16				I 19 26	I 19 33			
FEB 21	17	20	45.0						GREECE-ALB.
FEB 21	18				I 29 16				
FEB 21	19	40	59						51,6N 176,0W
FEB 21	19	46	46		I 46 50	PKP2 47 04			30,2S 179,0W
FEB 21	19	43	25						51,7N 175,9W
FEB 21	21	18	51	27 54	PP 21 22	SS 32 11			51,4N 176,0W
FEB 21	23	41	37.0C		I 41 42			1.6	38,1N 86,9E
FEB 22	02	21	47.3C		I 21 52			1.7	39,6N 25,7E
FEB 22	05	02	55.2		I 03 00				39,5N 25,1E
FEB 22	07	29	23						AEGEAN SEA
FEB 22	10	30	51						32,0N 130,7E
FEB 22	12	27	23						ALBANIA-YOUG
FEB 22	13	04	29						51,5N 175,6W
FEB 22	13				I 06 31				ESTHONIA
FEB 22	14				I 01 32				
FEB 22	17	57	53						51,4N 176,3W
FEB 23	00	21	31.1						51,5N 176,3W
FEB 23	11	13	06.1C		PP 16 54				18,8N 145,3E
FEB 23	12	12	44	13 06					
FEB 23	12				I 32 56				
FEB 23	14	09	43	10 26					GULF OF FINL
FEB 23	14				I 31 03				
FEB 23	16				E 24 18	I 24 21			
FEB 23	18				E 37 34	I 37 38			
FEB 23	19	47	09.2						18,7N 145,2E
FEB 24	01	30	57		I 31 02				35,5S 177,7W
FEB 24	10				SG 05 56				66,4N 14,8E
FEB 24	10				E 10 51	I 10 53			
FEB 24	12	59	39		I 59 43				ALB.-YOUGOS.
FEB 24	13	27	55.4C		I 28 12			2.2	45,8N 26,6E
FEB 24	14	15	22.0D	15 51	PB 15 04	PG 15 06		1.8	
FEB 24	15	36	20						34,2N 139,2E
FEB 24	15				I 45 12	I 45 15			
FEB 24	15	46	09.0C					1.9	34,1N 139,2E
FEB 24	16	13	22		I 13 24				34,5N 138,9E
FEB 25	10	36	21.6C		I 36 27			2.0	45,0N 142,2E
FEB 25	15	46	07		I 46 12				36,8N 5,6E
FEB 25	18	19	13.7		PCP 19 45				51,4N 176,0W
FEB 25	20	11	59.3C		I 12 03			2.7	37,6N 141,4E
FEB 26	05				E 48 42				
FEB 26	09	39	34.0D					1.7	52,7N 172,6E
FEB 26	11	02	24.5D	12 42	I 02 28	PCP 02 35	PP 05 29		22,7N 121,5E
FEB 26	13	49	51.6D		PCP 50 15			2.1	42,0N 142,2E
FEB 27	03	05	10.6D		*PP 05 20			1.7	42,9N 147,0E
FEB 27	05	32	31						12,2N 140,7E
FEB 27	06	38	01		I 38 05				AEGEAN SEA
FEB 27	11	08	10						12,1N 140,6E

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1968	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG	REMARKS
MTH DY HR	M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T	
FEB 27 12			PB 02 15	I 02 31			
FEB 27 13			E 21 41				
FEB 27 13	25 22					2.0	39,4N 25,5E
FEB 27 13	42 50.6C						39,5N 25,4E
FEB 27 14			PB 20 10	SB 20 27			
FEB 27 15			PB 00 39	SB 00 56			
FEB 28 12	19 16.7D	28 35	*PP 20 40	PP 22 26	PPP 24 10	2.5	32,9N 137,7E
FEB 28 13	47 39.1	48 24					
FEB 29 04	09 01						52,8N 171,2E
FEB 29 05	23 42						38,1N 20,2E
FEB 29 11	51 50.4		I 51 52				AEGEAN SEA
FEB 29 12	52 43		I 52 46				39,0N 24,3E
FEB 29 14			E 53 18				
FEB 29 15	56 40		*PP 57 12				52,8N 157,5E
FEB 29 23	54 57.7		SKP 58 10				14,6S 167,2E
MAR 1 22	16 56.8C						14,7N 45,0W
MAR 1 23	10 40.0C						14,6N 45,1W
MAR 2 16	28 02						29,9N 100,2E
MAR 2 19	41 15.7C						
MAR 2 20	36 54.0D						
MAR 2 22	14 40.9C	24 54	I 14 43	*PP 14 49			6,1S 71,4E
MAR 3 09	39 45.8D						34,7N 72,3E
MAR 3 23	08 32		*PP 10 12				1,6N 122,6E
MAR 3 23	15 54.9C		I 16 00				33,6S 179,6W
MAR 5 00	32 52.8D		I 33 08				53,8N 163,3W
MAR 5 00	41 37.9C						53,8N 163,3W
MAR 5 17	57 38.9		PG 57 47	I 58 34			
MAR 5 18	29 49.1C		PP 33 46				9,6N 126,3E
MAR 5 18	44 13						9,6N 126,2E
MAR 5 18	51 15.4C						9,6N 126,2E
MAR 6 00	24 07.8D		*PP 24 23				36,2N 139,8E
MAR 6 05	20 02.6D						39,2N 25,3E
MAR 6 16	32 02						26,6S 177,5W
MAR 6 17	01 06.1D					2.3	48,3N 146,3E
MAR 7 03	06 21.3D					2.0	35,6N 140,0E
MAR 7 07	23 56.9						71,7N 3,1W
MAR 7 07	24 09.0C	26 31	I 24 22				71,5N 4,3W
MAR 7 07	30 32.6C	32 54					71,6N 3,5W
MAR 7 08	45 55.2C						FORMOSA
MAR 7 13	08 02	10 26					71,6N 3,2W
MAR 7 13	40 58	48 02	PP 42 16	PKS 44 54	PS 52 00		5,9S 151,1E
MAR 7 14	39 20.2C						35,2N 25,7E
MAR 10 04	00 22.8D						52,1N 177,3W
MAR 10 06	53 24.5C						39,1N 24,3E
MAR 10 07	16 04.0D	20 24	I 16 11	LR 22 56			39,0N 24,2E
MAR 10 07	22 53.1C						AEGEAN SEA
MAR 10 07	31 04.0C		I 31 13	*PPKP 31 25			36,3S 179,4E
MAR 10 08	10 39						AEGEAN SEA
MAR 10 08	56 36.5C						AEGEAN SEA
MAR 11 08	45 40.0D		I 45 43	PP 48 12	SKP 49 16		16,2S 173,9W
MAR 11 17	37 56.2D						39,4N 25,5E
MAR 11 18	35 54.5D						52,1N 178,2E
MAR 12 07	33 15	33 54	PG 33 24				58,5N 13,7E
MAR 12 18			SG 27 54				66,4N 14,8E
MAR 12 19	17 51						24,3S 179,0E
MAR 13 16		33 38	SG 33 52				65,1N 12,7E
MAR 13 20	44 02.2C						20,5S 178,1W
MAR 13 22	45 51.9D		*PP 45 56				42,4N 66,5E
MAR 14 02	15 50.0C		*PP 15 54	PP 17 15		2.1	42,3N 66,5E
MAR 14 19	04 50.0C						27,9S 176,8W

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1968	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG	REMARKS
MTH DY HR	M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T	
MAR 14 15	16 21.9C						KERMADEC ISL
MAR 15 03	04 09.9C						41,5N 20,4E
MAR 15 07	30 44.5C						44,4N 149,0E
MAR 15 09		58 58	PB 58 25	SG 59 12			
MAR 16 12	37 38						25,5N 100,9E
MAR 16 18	16 10.8D						39,5N 25,0E
MAR 18 05	45 08.2D						TURKEY
MAR 18 07	41 29						23,2S 179,8W
MAR 19 02	30 08.2D		I 30 16				15,1N 60,5W
MAR 19 17			E 15 44				71,7N 3,1W
MAR 19 19	37 20.8D						26,4S 177,4W
MAR 20 04	22 49.8D		*PP 23 01				27,6N 129,8E
MAR 20 08	02 37.1C						SINKIANG
MAR 20 12	24 01.0D		I 24 07	I 24 17			51,4N 177,7E
MAR 21 00	52 34.1D						36,0N 140,4E
MAR 21 02	53 52.2D						37,8N 72,5E
MAR 21 06	15 50.2C						5,8N 125,6E
MAR 21 16	14 28.9C		I 14 31				39,7N 25,6E
MAR 22 09	28 43.0D						13,1N 145,5E
MAR 22 15	11 30.8C						NEVADA
MAR 22 19	34 42.3C						40,1N 16,3E
MAR 22 20	46 22.2C		*PP 46 28			1.6	37,4N 142,4E
MAR 23 10			I 49 05				NORTH. NORW.
MAR 23 13	16 17.2C		I 16 20				39,7N 25,4E
MAR 23 17	21 42.6		I 21 46				AEGEAN SEA
MAR 23 17	28 08.4C		I 28 14				AEGEAN SEA
MAR 23 17	30 56.3D	35 10	I 31 00	I 31 06			39,8N 25,5E
MAR 23 21	18 49.2C						39,6N 25,5E
MAR 24 07	23 43.0D	32 52	SS 37 06	LR 44 28			1,3S 24,2W
MAR 24 16	32 44.2D						32,1N 130,7E
MAR 25 03	15 57.8C						20,0S 168,9E
MAR 25 11	30 47	32 48					70,8N 8,7E
MAR 25 22	15 46.0C						29,3N 139,7E
MAR 26 00	54 53.1D		PPS 08 46				6,6S 116,1E
MAR 26 01	10 54.0C						
MAR 26 04	50 02.9D		I 50 07				29,6N 51,4E
MAR 26 10	53 53.0D						32,6N 141,6E
MAR 26 15	11 01.0D						36,1N 70,1E
MAR 26 17	14 30.9C						39,5N 25,6E
MAR 26 17			SG 51 18				66,4N 14,8E
MAR 26 19	53 55.3D						8,1N 126,3E
MAR 26 21	44 39.1C		I 44 44				30,3S 178,0W
MAR 27 05	03 37.0C						47,9N 154,0E
MAR 27 05	21 19		I 21 23				39,8N 25,4E
MAR 27 19	04 39.9C						40,9N 138,0E
MAR 27 21	29 33.9C		I 29 40				25,5S 179,6E
MAR 28 03	42 40.1	43 11	PB 42 45	SB 43 16	SG 43 18		60,7N 16,0E
MAR 28 06	04 06.4C						10,8S 166,0E
MAR 28 07	45 14.0C	49 40	SS 50 30	I 52 18			37,9N 20,9E
MAR 28 16	42 44.9C	46 48	I 42 52	I 50 02			39,6N 20,4E
MAR 28 17	17 37.2C						40,1N 31,4E
MAR 29 14	41 27.7C		PCP 41 43			1.7	40,3N 144,7E
MAR 29 19	08 23.0C						36,6N 70,4E
MAR 29 20	42 49.4						18,8N 64,8W
MAR 29 22	50 16						72,8N 7,0E
MAR 30 05	18 26						GREECE
MAR 30 12	37 28						52,4N 169,3W
MAR 30 15			SG 06 37				66,4N 14,8E
MAR 31 01	28 49.2C						
MAR 31 03	10 13.0C						ARCTIC OCEAN

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1968 MTH DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
MAR 31	03	31 37.9C						
APR 1	00	53 44.2C		I 53 47	I 53 52		2.1	SOUTH JAPAN
APR 1	06	32 33.2D						32,5N 132,2E
APR 1	06	50 05.8C						38,2N 23,8E
APR 1	07	24 59.2C	29 32	I 25 01	PP 27 50			2,9S 133,9E
								32,3N 132,1E
APR 1	10			E 04 41				
APR 1	11	44 29						34,3N 26,3E
APR 1	11			E 53 06				
APR 1	16	19 37		E 19 43				
APR 2	04	04 08.0C					1.5	16,9N 93,9W
APR 2	16			E 11 39	I 11 44			
APR 2	18	05 36						41,3N 141,6E
APR 2	18			SG 07 49				66,4N 14,8E
APR 3	07			E 27 32	I 27 37			
APR 3	08			E 04 47	I 04 55			
APR 3	13	46 01.2					1.4	32,5N 48,9E
APR 3	16	35 34.2	44 40	*PP 35 44	SS 49 42		1.9	51,7N 174,2E
APR 4	01	53 33.8D					1.6	24,6N 66,0E
APR 4	15			E 18 18	I 19 06			
APR 5	11	51 02.0					1.8	64,2N 148,9W
APR 5	15	59 38.2C		I 59 41				39,7N 25,5E
APR 5	17	03 48.0D					1.8	47,0N 154,1E
APR 5	22	16 59.6C					1.7	30,2N 137,0E
APR 6	11			I 35 39				60,0N 10,7E
APR 6	14			SG 35 25				66,4N 14,8E
APR 6	15			I 15 59				
APR 6	22	58 58.8C					1.3	51,4N 176,6E
APR 7	02	59 08.5D					1.9	38,5N 141,8E
APR 7	03	47 10						38,4N 24,5E
APR 7	04	51 12.2C	00 15	PP 53 41	SS 04 18		1.6	51,5N 176,5E
APR 7	05	21 04.1D						81,5N 3,9W
APR 8	03	42 28						61,5N 147,8W
APR 8	09	04 17.2D		I 04 19			1.4	39,5N 25,8E
APR 9	02	40 45		I 41 00				33,1N 116,1W
APR 11	17			E 29 05	I 29 21			
APR 12	04			E 34 16	I 34 28			
APR 13	18	41 46						7,3N 126,2E
APR 13	20			SB 36 41				56,7N 10,8E
APR 14	08	49 05.4C		*PP 49 18				33,4N 141,4E
APR 14	13	17 01.5C	26 55	*PP 17 02	SS 32 31		1.6	33,4N 141,4E
APR 14	14	36 54.7		*PP 37 35			1.8	6,8N 73,0W
APR 14	15	05 35						17,5S 178,8W
APR 14	15	31 55						
APR 15	01	31 13		E 31 39				CRETE
APR 15	03			E 57 11				
APR 15	17	35 33.4D					1.3	53,5N 159,7E
APR 15	18	27 34.9					1.2	39,3N 25,1E
APR 16	01			I 59 50				
APR 16	02			E 10 06				
APR 16	02			I 17 44				
APR 16	02			E 34 51				
APR 16	03	02 02		I 02 09				5,1S 68,4E
APR 16	03			E 05 56	I 05 58			
APR 16	03	20 50		I 20 57				5,1S 68,4E
APR 16	03			I 26 25				
APR 16	04			I 15 46				5,1S 68,4E
APR 16	04			I 41 49				
APR 16	04	48 39						5,5S 68,5E
APR 16	05	29 31		E 29 39				5,1S 68,4E
APR 16	05	41 05.3C		I 41 10				5,1S 68,4E

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1968 MTH DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
APR 16	09	33 28						5,1S 68,4E
APR 16	09			E 54 17				
APR 16	10			E 09 29				
APR 16	13			I 03 57				
APR 16	14	10 44.6C					1.3	5,1S 68,4E
APR 16	22	45 30		E 45 38				5,1S 68,4E
APR 17	02			I 21 01				
APR 17	02			I 34 09				
APR 17	02			E 48 37				
APR 17	02			I 50 43				
APR 17	03			E 21 53				
APR 17	03			E 34 58				
APR 17	03			E 42 06				
APR 17	03			E 52 19	I 52 20			
APR 17	04			I 20 35				
APR 17	09	17 51		I 17 54				35,2N 3,7W
APR 17	09	58 45.6C		PP 00 25			1.9	36,3N 71,4E
APR 17	11			E 31 48				
APR 17	11			I 59 54				
APR 17	12	03 22.3C					1.1	5,1S 68,4E
APR 17	12	16 43	17 56	SG 18 32				59,9N 23,5E
APR 17	12	47 15						4,9S 68,2E
APR 17	13	19 29.7D		PP 20 14				36,4N 71,5E
APR 17	13			E 29 14				
APR 17	23	30 18.4C						
APR 18	00			I 25 29				
APR 18	01			E 38 21	E 38 29			
APR 18	01			E 39 30				
APR 18	02	11 23						5,1S 68,4E
APR 18	03	12 40.0					1.4	41,3N 20,3E
APR 18	04	53 29.4C					1.9	25,7S 179,5W
APR 18	10	18 00.3C		I 18 08			1.8	25,5S 177,9W
APR 18	16			I 03 45				
APR 19	05	51 47						25,9N 128,4E
APR 19	10	06 43	07 08	PB 06 45	SG 07 12			
APR 19	10			I 49 51				
APR 19	11			E 54 42				
APR 19	12			I 04 55				
APR 19	12			E 19 41				
APR 19	12			E 26 29				
APR 19	14			E 16 46				
APR 19	15			I 05 36				
APR 19	18			I 13 48				
APR 20	10	24 33.3D	29 56	PP 25 30				38,3N 26,6W
APR 20	12	44 18		I 44 27	PP 47 01	PKS 48 01		15,7S 172,6W
APR 21	08	45 33	55 08	PP 48 19	PPP 49 58	SS 59 59		38,6N 143,0E
APR 21	17			PKP2 04 22	SS 28 14			56,4S 158,0E
APR 21	17	53 25		I 53 44				38,6N 143,1E
APR 21	21	14 11.4					1.6	39,8N 14,9E
APR 22	13			E 22 23	E 22 59			
APR 22	14		33 50	PB 33 30	SG 33 47			60,0N 10,7E
APR 22	15			E 22 43	I 23 03			
APR 22	15	36 38	36 53	PG 36 37	SG 36 50			
APR 22	16			E 28 49	E 29 02			
APR 22	21	52 14.0C		I 52 33				JAPAN
APR 23	01			I 10 11				
APR 23	02	51 39.6C						TADZHIK SSR.
APR 23	04	47 03		I 47 10				
APR 23	06	53 14.6D		I 53 24	*PP 53 41			36,3N 71,2E
APR 23	07	20 30.6C						

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1968 MTH DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
APR 23	12	47 13.4C					1.5	IRAN
APR 23	12	48 00.0C	54 47	I 48 02	SS 58 02		1.9	27.7N 56.7E
APR 23	15	36 38	37 00					
APR 23	17	00 18.4	00 36	PB 00 17	SG 00 33			
APR 23	20	39 17.7D	46 57	*PP 39 23	PCP 40 04	PKPKP 08 36	2.1	58.7N 150.0W
APR 23	22	35 59						34.6N 8.9E
APR 24	03	16 21.7C					1.4	5.1S 68.3E
APR 24	08	23 11	27 26	I 23 12	I 23 14			39.3N 24.9E
APR 24	10	43 17.6C					1.9	49.8N 78.1E
APR 24	14	16 53.0						BISMARCK SEA.
APR 24	19	43 53.6C					1.3	5.0S 68.4E
APR 24	23	48 18.6C					1.2	30.0N 140.7E
APR 25	04	32 30		I 32 39				NIAN SEA.
APR 25	13			E 20 30				
APR 25	13			E 24 04				
APR 25	14			I 30 37				
APR 25	21			PKS 48 25				15.2S 173.1W
APR 26	01			PP 04 24	PKS 05 25			15.3S 173.1W
APR 26	03	05 22.7C		I 05 33			2.2	35.1N 50.2E
APR 26	11			PB 26 13	SB 26 30			
APR 26	13	26 01.7	34 50	I 26 10			1.3	00.2S 18.2W
APR 26	13	32 43.0C		*PP 32 55	PCP 32 59		1.8	37.4N 151.4E
APR 26	15			E 08 36				
APR 26	15	11 31.0C		I 11 36			2.2	37.3N 116.5W
APR 26	15	46 20.1	46 40					
APR 26	18	00 31.9C	11 19				2.0	18.7N 103.3W
APR 26	20	10 04.0C					1.3	
APR 27	09			E 55 52				
APR 28	04	29 47		I 29 57				44.8N 174.5E
APR 28	09	30 26	32 49	I 30 36				72.0N 1.6W
APR 28	11	05 17.2D					1.4	JAN MAYEN
APR 28	12			E 25 32				
APR 28	13			I 17 12				
APR 28	20	52 15.6					1.3	JAN MAYEN
APR 29	13	14 00	14 42					
APR 29	17	08 03.4C	13 04	PN 08 33	PP 08 00	E 13 50		39.2N 44.3E
APR 29	18			E 05 13				
APR 29	22	00 15	00 51	PB 00 22	SB 01 04			57.9N 8.4E
APR 29	22			*PP 40 18				2.6S 77.2W
APR 30	01	53 09.3C		*PP 53 41				54.3N 159.3E
APR 30	11			I 59 55				
APR 30	13			E 02 31				
APR 30	13			E 38 03				
APR 30	14	46 09	46 30					
APR 30	15			E 06 22				
APR 30	17			E 44 52				
APR 30	22	54 42.5C		I 55 12				
MAY 1	00	10 02.8					1.0	CHILE-ARGEN.
MAY 1	02	00 07.9C		I 00 16			1.0	KERMADEC ISL
MAY 1	05	25 55						
MAY 1	08	55 16.3D					2.0	JAPAN
MAY 1	10	41 24.1C		I 43 08				14.9N 93.5W
MAY 1	19	24 11.9D					1.2	40.8N 142.5E
MAY 1	19	27 54						40.9N 142.4E
MAY 1	19	49 51.1						27.5N 128.2E
MAY 2	05	40 38.2D		I 40 41	*PP 40 59	*SP 41 09		18.7N 69.6W
MAY 2	05	50 04.8						40.7N 142.7E
MAY 2	23	40 16	50 44	PP 44 48	SKKS 51 40	PPS 55 04		6.3S 129.9E
MAY 3	03	33 20.6						IONIAN SEA
MAY 3	05	44 38.8D	54 32	*PP 45 02			2.2	25.1N 124.5E

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1968 MTH DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
MAY 3	16	24 21.7D						*PP 24 31
MAY 4	03	32 44.3C					1.2	54.1N 163.2W
MAY 4	22	22 56					1.6	29.7N 137.9E
MAY 4	23	06 29.1						3.6N 126.3E
MAY 5	09							27.7N 139.8E
MAY 5	09							39.2S 174.7E
MAY 5	09							I 25 51
MAY 6	20	57 34.7D					1.5	36.4N 70.8E
MAY 7	09	12 28.0C	22 29				1.9	6.7N 73.0W
MAY 8	11	20 04		PKP2 20 55				58.0S 157.6E
MAY 8	12	28 26.9	37 46	I 28 30	I 28 34	SSS 45 20	2.4	43.5N 127.8W
MAY 8	22	53 04.5		I 53 11			1.7	37.0N 71.9E
MAY 9	00	05 22.9		I 05 34	I 05 39			26.6S 176.2W
MAY 9	03	14 19	23 34	I 14 23				43.4N 126.9W
MAY 9	07	39 39.8C		I 39 44				31.7S 178.7W
MAY 9	09	51 18						34.5S 179.0W
MAY 9	10	45 56.6D		I 46 07				
MAY 9	12	48 12		I 48 24				32.7S 178.1W
MAY 9	14	33 51.8C		I 33 53				34.1N 136.7E
MAY 9	15	13 01		I 13 09	I 13 15			32.5S 178.5W
MAY 9	17	01 54.1D					1.4	16.9N 93.7W
MAY 9	18			SG 06 40				66.4N 14.8E
MAY 9	18	15 24		*PP 15 53				16.2N 93.4W
MAY 10	03	20 58.9C						50.1N 178.7W
MAY 10	09	35 32		I 35 40				24.3N 121.9E
MAY 10	09	37 40						18.3N 100.6W
MAY 10	15	21 23	31 32					24.2N 121.9E
MAY 10	15	56 10.9	06 56	PB 56 16				58.3N 14.1E
MAY 10	20	45 14	55 09					24.3N 121.9E
MAY 10	23	07 34.3		SKP 11 02				21.2S 176.6W
MAY 11	12	18 58		I 19 15			1.4	41.0N 49.8E
MAY 11	15	52 17	00 02	PS 03 12				6.4S 147.2E
MAY 11	16			SG 35 11				NORTH NORWAY
MAY 12	04	45 10.9						16.7N 95.2W
MAY 13	02	51 59.6C	56 34	I 59 18			1.8	43.5N 40.3E
MAY 13	03	13 04.0D						25.6S 176.7W
MAY 13	19	48 02						8.9N 71.1W
MAY 13	20	34 45.2C		I 34 53				51.5N 158.6E
MAY 13	21	16 03.7C						12.9S 14.7W
MAY 14	02	49 18.1C						36.1N 70.9E
MAY 14	05	56 20.9C						23.8S 176.9W
MAY 14	14	16 37.5C	26 20	*PP 17 24	PP 19 46		2.0	29.9N 129.3E
MAY 15	00	37 57						37.4N 114.8E
MAY 15	08	03 12.2		*PP 03 22				15.8S 25.9E
MAY 15	15	20 12		I 20 21				29.7S 179.0W
MAY 16	01	00 16.3C		I 00 21				40.8N 143.2E
MAY 16	01	16 11.8						40.7N 143.1E
MAY 16	01	23 39.0D						JAPAN
MAY 16	01	27 12.1D						
MAY 16	02	02 59.9C						JAPAN
MAY 16	02	03 42.2C		I 03 55				JAPAN
MAY 16	02	05 40.9C						
MAY 16	02	10 46.2						
MAY 16	02	11 43.2						JAPAN
MAY 16	02	12 37.1						JAPAN
MAY 16	03	00 11.5D						
MAY 16	03	01 38.9		I 01 48				
MAY 16	03	09 22.3						JAPAN
MAY 16	03	21 19.2						JAPAN
MAY 16	03	50 23						JAPAN
MAY 16	03	56 53.6						40.1N 143.9E
MAY 16	04	13 03.9						

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1968 MTH DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
MAY 16	04	27 02.1						40.5N 143.0E
MAY 16	04	28 06.8						
MAY 16	05	00 53.2						JAPAN
MAY 16	05	09 27.9C						40.5N 143.0E
MAY 16	05	14 53						
MAY 16	05	17 13						
MAY 16	05	22 56.6		*PP 23 06				40.4N 143.5E
MAY 16	05	26 27.9						40.5N 143.0E
MAY 16	05	56 01		*PP 56 10				40.5N 143.7E
MAY 16	06	09 24						JAPAN
MAY 16	14	01 01.0		*PP 01 11				JAPAN
MAY 16	14	04 04.0		*PP 04 13				JAPAN
MAY 16	14	13 52.4		*PP 14 07				41.4N 142.2E
MAY 16	14	14 41.9C		*PP 14 54			1.8	JAPAN
MAY 16	14	27 31.9						41.4N 142.6E
MAY 16	14	54 58		I 55 07				
MAY 16	15	03 46.1		*PP 03 57			1.4	41.3N 143.4E
MAY 16	15	07 12.0C					1.2	40.7N 143.3E
MAY 16	15	31 38						41.4N 142.9E
MAY 16	16	00 27.0		*PP 00 40				JAPAN
MAY 16	16	03 43.9D					1.4	JAPAN
MAY 16	16	16 36.9C						
MAY 16	16	21 31						JAPAN
MAY 16	16	25 10.1C		*PP 25 20			2.0	39.6N 143.5E
MAY 16	16	33 17.4		I 33 19				39.7N 143.5E
MAY 16	17	33 05.8C		*PP 33 18			1.2	41.0N 142.6E
MAY 16	17	39 26.8D		I 39 34			1.3	41.4N 143.0E
MAY 16	17	52 28.1						JAPAN
MAY 16	18	06 21.0C						JAPAN
MAY 16	18	39 09.0D						39.8N 143.3E
MAY 16	18	54 34.0C						40.7N 142.1E
MAY 16	19	04 43.6C						JAPAN
MAY 16	19	27 58.9		*PP 28 07			1.8	41.3N 142.3E
MAY 16	19	48 22						
MAY 16	19	55 07.8						41.7N 142.5E
MAY 16	19	58 35						12.5N 141.6E
MAY 16	20	14 56.9C						41.6N 142.6E
MAY 16	20	23 45						JAPAN
MAY 16	20	33 26.7		I 33 28				41.4N 142.6E
MAY 16	20	52 09.5						
MAY 16	21	14 37.8D		*PP 14 48	I 14 50		1.4	41.2N 142.4E
MAY 16	21	34 24.1D						40.2N 143.1E
MAY 16	21	37 13.6C					1.4	40.9N 143.0E
MAY 16	21	39 45.9D						JAPAN
MAY 16	22	37 51						
MAY 16	23	08 20.0D		*PP 08 28				39.8N 143.5E
MAY 16	23	14 25.5						JAPAN
MAY 16	23	16 16.0C		I 16 18	PP 18 56		1.5	39.8N 143.0E
MAY 16	23	49 40.0D		I 49 46			1.0	39.6N 143.2E
MAY 17	00	03 00.1D		*PP 03 10			1.2	JAPAN
MAY 17	00	07 59.2C		*PP 08 10			1.6	39.6N 143.3E
MAY 17	00	16 18					1.2	41.9N 142.2E
MAY 17	00	35 44.4						40.2N 143.0E
MAY 17	02	39 39.0		*PP 39 57				41.4N 142.1E
MAY 17	02	54 13						40.2N 143.2E
MAY 17	02	58 05						40.2N 143.2E
MAY 17	04	14 32						41.4N 142.2E
MAY 17	04	18 39						41.0N 142.9E
MAY 17	04	47 53.6		*PP 48 03				39.1N 143.6E
MAY 17	05	15 10.0D					1.7	JAPAN

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1968 MTH DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
MAY 17	05	30 59.6C		*PP 31 09			1.6	39.5N 143.3E
MAY 17	06	36 02.2C		*PP 36 12			1.5	39.0N 143.4E
MAY 17	07	23 47.5						41.6N 142.2E
MAY 17	09	13 08.8					1.3	41.2N 142.6E
MAY 18	10			*PP 53 07				39.8N 141.1E
MAY 18	13	06 38						41.7N 142.5E
MAY 18	13	08 17		*PP 08 27				JAPAN
MAY 18	14	19 02.8D		*PP 19 12			1.2	41.5N 142.5E
MAY 18	15	45 02.8		*PP 45 11				40.7N 143.1E
MAY 18	17	38 47.0						41.3N 142.6E
MAY 18	19	28 23.9C					1.3	41.2N 142.4E
MAY 19	01	29 35.5		*PP 29 44				39.7N 143.6E
MAY 19	02	24 24						41.6N 142.0E
MAY 19	04	24 22.1C	34 08	*PP 24 32	PP 27 26			35.6N 141.7E
MAY 19	06	05 52.1C						35.6N 141.8E
MAY 19	07	06 35.7						IONIAN ISL.
MAY 19	09	42 31.1C		*PP 42 42			1.6	38.5N 14.9E
MAY 19	10	19 17						41.6N 142.7E
MAY 19	13	10 31.3D						40.2N 143.6E
MAY 19	13	14 39.9D						41.3N 142.5E
MAY 19	13	22 22.5						41.5N 142.2E
MAY 19	14	19 37						41.6N 142.1E
MAY 19	15	15 38.1D		*PP 15 47			1.3	40.1N 143.7E
MAY 19	16	31 06.9D		*PP 31 18			1.3	36.8N 141.5E
MAY 19	16	56 53.9						36.3N 53.3E
MAY 19	22	28 04.0C		*PP 28 19	PCP 28 25		1.5	40.8N 143.1E
MAY 19	23	13 59.5C						41.3N 142.2E
MAY 20	00	57 59.8						40.3N 143.7E
MAY 20	02	43 02.5C		*PP 43 17			1.5	40.3N 142.3E
MAY 20	03	27 43.0D		*PP 27 52			1.8	39.9N 143.9E
MAY 20	04	25 57.1C						41.4N 143.2E
MAY 20	04	48 50.0C		*PP 48 59				40.1N 143.8E
MAY 20	14	43 05		*PP 43 17				40.5N 142.7E
MAY 20	16	37 35.2D						41.2N 142.5E
MAY 20	17	35 02.7C						41.3N 142.3E
MAY 20	17	39 05						4.9S 153.2E
MAY 20	20	25 27.9C		I 25 31	I 25 35			30.7S 178.3W
MAY 20	20	40 05.0C		I 40 11				30.9S 178.1W
MAY 20	21	20 50.1C		*PP 21 01				44.8N 150.2E
MAY 20	23	35 30						45.0N 150.4E
MAY 21	00	08 58.0C						40.2N 142.5E
MAY 21	00	30 39.1C						44.8N 150.1E
MAY 21	02	29 35.1						41.4N 142.7E
MAY 21	02	41 19.0						41.5N 142.5E
MAY 21	03	11 31.1D		*PP 11 40				40.1N 143.6E
MAY 21	04	06 44.8C		PP 08 10				38.9N 65.1E
MAY 21	04	22 41.3C		*PP 22 52				41.0N 143.5E
MAY 21	05	33 19.2						41.4N 143.4E
MAY 21	06	48 07.0C						41.7N 142.4E
MAY 21	08	31 05.5C	40 20	*PP 31 15	SS 44 58		1.5	44.9N 150.1E
MAY 21	11	04 36.2						20.1N 122.0E
MAY 21	11	11 50.9D		*PP 12 06				44.7N 150.2E
MAY 21	11	15 00.2C					1.4	45.0N 150.0E
MAY 21	13	19 44.9						44.6N 150.0E
MAY 21	15	21 28						41.4N 142.8E
MAY 21	15	39 15.6						41.1N 143.4E
MAY 21	16	05 59						41.3N 142.4E
MAY 21	16	15 34						41.7N 141.9E
MAY 21	18			SG 05 42				66.4N 14.8E
MAY 21	18	58 34.5C		*PP 58 49				44.8N 150.3E

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1968	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG	REMARKS
MTH DY HR	M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T	
MAY 22 00	37 47.2		I 37 53				30.4S 77.7W
MAY 22 02	20 04.1						JAPAN
MAY 22 04	27 26.7						41.8N 141.7E
MAY 22 04	37 53						40.4N 143.8E
MAY 22 05	14 34						41.5N 142.5E
MAY 22 05	38 23						44.6N 150.6E
MAY 22 16	00 41.6					1.3	41.1N 142.9E
MAY 22 18	43 15						32.9N 49.1E
MAY 22 18	47 23.6						44.5N 150.2E
MAY 22 19	19 14						30.5N 142.5E
MAY 22 19	40 43.3C	50 06	I 40 46	*PP 40 53		1.8	40.2N 142.2E
MAY 22 20	12 17.2						44.8N 150.2E
MAY 22 21	24 21.6						2.9N 126.5E
MAY 22 21	39 43						31.4N 139.8E
MAY 22 22	43 24.7						31.4N 139.8E
MAY 22 23	29 52		*PP 30 02				42.1N 141.3E
MAY 23 00	20 02						40.8N 144.0E
MAY 23 02	39 21						50.2N 156.9E
MAY 23 03	08 48						41.6N 142.5E
MAY 23 07	53 32						44.6N 150.4E
MAY 23 17	44 10		I 44 21	PKP2 44 51			41.6S 171.9E
MAY 23 18	42 10						41.2N 143.2E
MAY 23 18	44 06.2D		I 45 01				44.9N 150.1E
MAY 23 19	02 40		I 02 45				30.5S 177.6W
MAY 23 21	18 54.7						41.4N 142.1E
MAY 23 23	45 05.8						14.7N 40.2E
MAY 24 00	07 46.0C		*PP 07 54				40.3N 143.6E
MAY 24 14	17 40.9C	26 54	*PP 17 49	SS 32 24		2.0	40.9N 143.0E
MAY 24 15	13 31						30.9S 177.2W
MAY 24 15	20 29						71.6N 2.3W
MAY 24 15	56 56.0D					1.4	6.8S 118.8E
MAY 24 16	51 39						JAN MAYEN
MAY 24 18	00 47		PKP2 01 19				41.8S 171.8E
MAY 24 18			SG 04 42				66.4N 14.8E
MAY 24 19	59 04.7						
MAY 24 21	17 18		PKP2 17 53				41.8S 172.0E
MAY 24 21	45 46.5		*PP 45 55				JAPAN
MAY 24 21	47 45.8C		I 47 50			1.6	54.1N 169.3E
MAY 24 21	56 02.2						
MAY 24 22	28 53.3						
MAY 24 23	48 42.6						41.6N 142.6E
MAY 24 23	58 49.9						10.9N 69.3W
MAY 25 00	35 17						40.8N 41.9E
MAY 25 05	44 43.1						CAUCASUS
MAY 25 07	11 40.9						
MAY 25 12	04 18.1C	13 46	*PP 04 29	PCP 04 34		2.2	40.0N 143.0E
MAY 25 13	49 25.1						39.1N 142.9E
MAY 25 14	29 53		*PP 30 04				JAPAN
MAY 25 14	30 19.1		*PP 30 28			1.3	38.8N 142.9E
MAY 25 15	47 39						
MAY 25 20	21 06.2						JAPAN
MAY 25 21	21 34						JAPAN
MAY 26 00			PKP2 09 42				42.0S 171.8E
MAY 26 14	15 39.1						40.0N 142.7E
MAY 26 16	50 13						66.0N 161.5W
MAY 26 17	52 58.1C		*PP 53 11				40.0N 142.2E
MAY 26 18	45 37.4						41.2N 142.4E
MAY 26 23	10 32.1		*PP 10 44				40.7N 143.2E
MAY 27 06	29 11.1D						40.3N 141.8E
MAY 27 10	49 32.2						39.6N 143.1E

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1968	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG	REMARKS
MTH DY HR	M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T	
MAY 27 11	56 17.7						30.7S 177.9W
MAY 27 18	45 27						29.6N 80.4E
MAY 28 01	38 45.6						
MAY 28 01	48 06.8						30.9S 177.3W
MAY 28 02	29 29						31.1S 176.8W
MAY 28 03	53 33						31.1S 177.3W
MAY 28 09	26 11		I 26 16				30.9S 177.8W
MAY 28 11			E 12 36				31.2S 176.8W
MAY 28 12	32 31.5						41.5N 142.5E
MAY 28 13	41 44		I 42 05	PP 46 30			2.9S 139.3E
MAY 28 14	41 35.9D						40.9N 142.9E
MAY 28 21	36 53.2						GREECE
MAY 28 22	40 44.9C	49 42	I 40 57				52.1N 172.8E
MAY 28 23	07 06 11.0						52.3N 172.8E
MAY 28 23	11 51.5C						40.8N 142.0E
MAY 29 00	19 11.4						52.5N 173.0E
MAY 29 04	03 36						
MAY 29 09	06 40.6						JAPAN
MAY 29 10	15 22.9						36.1N 140.1E
MAY 29 13	18 25						
MAY 29 17	33 00.9						GREECE
MAY 30 00	18 26.2D						32.5N 48.2E
MAY 30 00	47 07.9						42.2N 119.8W
MAY 30 01	18 34.5C		I 18 39	PP 20 21	SS 28 28		27.8N 54.0E
MAY 30 02	51 14						30.8S 177.3W
MAY 30 04			PKP2 45 23				41.8S 171.9E
MAY 30 05	34 53.9C	44 18	*PP 35 03	PCP 35 11	SS 48 54		44.6N 150.2E
MAY 30 09	15 34.0						40.6N 142.3E
MAY 30 16	48 06.4						JAPAN
MAY 30 17	46 11.6	51 32	I 46 18				35.4N 27.9E
MAY 30 17	53 09.1C						
MAY 30 18	12 05.9						5.2N 126.7E
MAY 30 18	19 29						45.0N 17.0E
MAY 30 19	24 40						45.0N 153.5E
MAY 30 20	00 47.1		I 00 52				29.7N 51.2E
MAY 30 20	02 07.9C						30.9S 177.6W
MAY 30 21	23 24.9		*PP 24 12				HINDU KUSH
MAY 30 21	48 13						RHODES ISL.
MAY 30 23	25 30.1						
MAY 31 00	28 51.6D						
MAY 31 01	29 11						41.5N 142.8E
MAY 31 02	03 31.9						
MAY 31 03	10 59.7D						29.9N 79.9E
MAY 31 06	00 46.0						40.0N 143.9E
MAY 31 07	37 36						AEGEAN SEA
MAY 31 10	13 04						40.9N 143.0E
MAY 31 13	01 55						31.3S 176.8W
MAY 31 13	22 35						
MAY 31 14	14 19.0						
MAY 31 15	43 12						31.0S 177.8W
MAY 31 18			SG 05 58				66.4N 14.8E
MAY 31 18	39 28.3D						13.6S 167.2E
MAY 31 20	03 12.2						41.4N 142.6E
MAY 31 21			PKS 41 05				14.7S 167.0E
JUN 1 01	07 13.8		*PP 07 25				41.2N 142.2E
JUN 1 03	32 48						40.8N 141.9E
JUN 1 04	09 39.1						38.2N 141.7E
JUN 1 07	46 10						45. N 150.0E
JUN 1 08	45 07						
JUN 1 10	43 07.0C		*PP 43 22			2.0	40.1N 142.2E

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1968	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG	REMARKS
MTH DY HR	M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T	
JUN 1 11	42 20.9D		*PPKP 42 31				30.9S 177.6W
JUN 1 14	04 34						41.5N 142.6E
JUN 1 14	40 04						
JUN 2 19	41 31						15.9N 93.2W
JUN 2 22	31 58						JONIAN SEA
JUN 3 02	23 42.9						41.5N 142.3E
JUN 3 05	43 36.8		*PP 43 47				35.9N 141.1E
JUN 3 05	58 51.8					1.2	41.4N 142.4E
JUN 3 08	43 39.7		*PP 43 50			1.1	35.8N 141.2E
JUN 3 09	05 14.1						28.1N 138.9E
JUN 3 09	36 06						5.4S 146.9E
JUN 3 10	46 51						35.3N 28.0E
JUN 3 14	27 04.3C		I 27 16			2.3	45.6N 148.3E
JUN 3 14	50 15						
JUN 4 01	51 02.4		I 51 05				37.4N 49.0E
JUN 4 05	19 51						35.6N 82.1E
JUN 4 06	57 15.3		PP 58 40			1.1	32.6N 48.2E
JUN 4 13	31 58.1						27.6N 139.7E
JUN 4 15	21 21.3						41.8N 142.5E
JUN 4 15	42 03						41.3N 142.5E
JUN 4 17	27 17						22.5N 121.4E
JUN 4 18	42 36.8						41.8N 142.6E
JUN 5 00	17 33						36.0N 66.1E
JUN 5 11	24 11.1						
JUN 5 23	16 22.0D		*PP 16 33			1.4	52.1N 174.2E
JUN 6 13	05 20.4					1.0	30.2S 178.4W
JUN 6 15	21 03.1D		I 21 08				31.8S 178.4W
JUN 6 16			SG 22 18	I 22 22			66.4N 14.8E
JUN 6 18	32 36.8C		*PP 32 57			1.4	40.5N 142.3E
JUN 6 19	56 40.0D	07 06	I 56 43	I 56 51		1.6	14.8N 119.9E
JUN 6 20	52 46.2C					1.2	
JUN 6 20	53 03.3		I 53 09	I 53 13			30.7S 178.0W
JUN 6 21	28 27.0D	37 40	I 28 46			1.4	41.3N 142.5E
JUN 6 23	03 01.8D					1.6	44.5N 148.1E
JUN 7 12	11 23		PP 15 26				1.7S 120.1E
JUN 7 21		55 14	SS 03 34	PP 49 02			2.1S 120.5E
JUN 8 00	47 08.1C	51 56	I 47 16			1.6	87. N 51.2E
JUN 8 02	55 56.7C		*PP 56 05			1.4	40.5N 143.6E
JUN 8 05	40 54.0C	50 02	PCP 41 16			2.1	43.4N 147.0E
JUN 8 11	13 10.0D		*PP 13 21				51.1N 159.0E
JUN 8 21	00 24.2						26.3N 124.4E
JUN 8 21	05 57.5D		*PP 06 08			1.7	41.4N 142.2E
JUN 8 21	54 01.8		*PP 54 12				28.4N 129.5E
JUN 8 23			PP 43 14	PS 52 50	SS 58 58		48.7S 31.5E
JUN 9 00	04 11.9D					1.1	43.5N 146.7E
JUN 9 01	02 47.9						38.9N 46.0E
JUN 9 04	59 48.1						39.5N 143.4E
JUN 9 09	35 55.1C		I 36 02	SKP 38 46		1.3	24.1S 178.5E
JUN 9 10	33 57.2						14.6N 91.9W
JUN 9 11	15 29.7						31.1S 177.5W
JUN 9 18	10 27.9C		I 10 31			1.3	41.4N 142.5E
JUN 9 22	21 43.4		I 21 57				31.2S 177.8W
JUN 10 02	50 00.2C					1.0	40.1N 142.2E
JUN 10 04	32 02.2						44.2N 148.7E
JUN 10 11	22 03.5						39.5N 144.5E
JUN 10 12	51 13.2	59 32	*SS 00 46	*PP 51 56		1.4	56.3N 161.5W
JUN 10 14			*PP 13 02				39.8N 144.4E
JUN 10 15	16 23.2		I 16 30				22.2N 44.9W
JUN 10 15	49 05.8		I 49 15				31.1S 177.7W
JUN 10 17	44 37.9C						39. N 75.1E

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1968	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG	REMARKS
MTH DY HR	M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T	
JUN 10 22	33 54						
JUN 11 03	13 18.4C					1.6	49.8N 78.1E
JUN 11 06	04 35.2		*PP 05 25				13.9N 88.7W
JUN 11 06	15 35.5						38.5N 43.0E
JUN 11 13	59 46.8						
JUN 11 15	31 47						37.9N 138.6E
JUN 11 17	51 22						43. N 17.1E
JUN 11 18	53 20.6						44.9N 149.4E
JUN 11 21	13 51.8						40.5N 143.6E
JUN 11 22	41 15.0C					1.4	45.6N 150.8E
JUN 12 04	39 54.1C		*PP 40 08			1.2	24.8N 91.9E
JUN 12 09	10 52.6						35.3N 27.9E
JUN 12 13	53 13.7C		*PP 53 22			2.2	39.4N 142.7E
JUN 12 14	09 56.9		*PP 10 04			1.3	JAPAN
JUN 12 14	17 22.2					1.2	JAPAN
JUN 12 14	18 33.4					1.2	JAPAN
JUN 12 14	22 05.1					1.2	JAPAN
JUN 12 14	23 59.1					1.3	JAPAN
JUN 12 14	28 52.0C		*PP 29 01				39.1N 142.9E
JUN 12 14	38 44.7		*PP 38 55				
JUN 12 14	49 37.1C		*PP 49 48			1.4	39.3N 142.8E
JUN 12 14	55 20						JAPAN
JUN 12 14	56 29.4						JAPAN
JUN 12 15	03 22.2C		*PP 03 33			1.2	39.8N 143.0E
JUN 12 15	07 30.8		*PP 07 41				JAPAN
JUN 12 15	20 17.1C		*PP 20 26			1.7	39.5N 142.9E
JUN 12 15	24 24.1					1.1	JAPAN
JUN 12 15	35 17.6C		*PP 35 26			1.6	39.3N 143.1E
JUN 12 16	00 25.2C		*PP 00 34			1.6	39.2N 143.0E
JUN 12 16	34 43.6		*PP 34 52			1.5	39.5N 143.1E
JUN 12 16	40 40.2		*PP 40 48				38.9N 143.5E
JUN 12 16	46 05.8						39.2N 142.7E
JUN 12 17	07 27.1						39.4N 142.4E
JUN 12 17	34 43.0		*PP 34 51				39.4N 143.1E
JUN 12 18	03 27.7C		*PP 03 17			1.6	39.1N 142.9E
JUN 12 19	00 18.2		*PP 00 28				39.3N 142.8E
JUN 12 19	07 11.2		*PP 07 21			1.5	39.6N 143.2E
JUN 12 19	47 47.1					1.1	39.4N 143.0E
JUN 12 19	50 08.9		*PP 50 19				39.2N 142.7E
JUN 12 19	59 54.1		*PP 00 04				39.4N 142.8E
JUN 12 20	24 39.2						39.3N 143.0E
JUN 12 21	28 05						39.5N 142.4E
JUN 12 22	09 06.0C	18 48	*PP 09 13	PP 11 49		1.9	39.2N 142.7E
JUN 12 22	20 03.8						JAPAN
JUN 12 23	01 30.8						41.5N 142.6E
JUN 12 23	03 27.2						
JUN 12 23	39 01.8	49 20	*PP 39 44	*SS 50 52		1.1	13.8N 120.6E
JUN 13 00	16 26.2C					1.5	39.4N 142.9E
JUN 13 00	53 40		*PP 53 50				39.3N 142.7E
JUN 13 01	54 20.1C		*PP 54 28				39.4N 142.9E
JUN 13 02	17 08.1C	26 36	*PP 17 16			1.6	39.4N 142.8E
JUN 13 04	01 C6						71.1N 5.5W
JUN 13 04		52 14	SG 52 52				64.5N 20.3E
JUN 13 08	59 43						39. N 143.2E
JUN 13 12	07 49.8D	17 17	I 07 52	I 07 57		1.8	39.1N 142.9E
JUN 13 15	07 41.8C		*PP 07 49			1.7	39.4N 142.8E
JUN 13 15	46 51.9						24.6N 66.3E
JUN 13 16	28 04.8					1.2	39.5N 143.0E
JUN 13 18	10 01.4					1.1	
JUN 13 18			*PP 49 28	I 49 36			37.7N 140.8E

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1968 MTH DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
JUN 13	19	42 29.4					1.2	JAPAN
JUN 13	19	57 40						39.4N 143.0E
JUN 13	21	22 01.1	31 25	*PP 22 11	SS 36 22		1.7	39.3N 142.9E
JUN 13	22	45 52.9						36.5N 71.4E
JUN 13	23	11 42.1						29.7N 51.4E
JUN 14	00	00 42.1C					1.2	39.6N 142.4E
JUN 14	00	57 30.4D		*PP 57 38				
JUN 14	01	25 59.8C					1.3	42.6N 132.7E
JUN 14	01	48 02.9		*PP 48 12				39.4N 142.8E
JUN 14	02	49 56.9						40.5N 141.9E
JUN 14	03	29 42.1D	39 09	I 29 48			1.4	39.3N 142.8E
JUN 14	04	11 04						31.2N 70.1E
JUN 14	04	46 41.8						38.9N 143.1E
JUN 14	06	16 27.9		*PP 16 35				39.3N 142.8E
JUN 14	08	53 16						39.4N 143.1E
JUN 14	12	04 04.9C		*PP 04 13			1.9	39.3N 142.8E
JUN 14	12	28 35.2	37 52	I 28 37				45.1N 153.5E
JUN 14	13	34 15.2C		I 34 28			1.8	51.7N 159.3E
JUN 14	13	54 41.8D					1.1	51.7N 159.0E
JUN 14	15	29 40.4D					1.0	51.7N 159.0E
JUN 14	17			SN 52 19				56.2N 13.8E
JUN 14	18			SN 05 58	I 06 03			66.4N 14.8E
JUN 14	18	29 55.6					1.0	KAMCHATKA
JUN 14	19			PKP2 23 53				41.9S 171.8E
JUN 14	22	52 26.2C		*PP 52 36			1.5	51.7N 159.3E
JUN 14	23	13 42.1D		*PP 13 53				51.6N 159.3E
JUN 15	00	16 08						29.5N 51.6E
JUN 15	00	43 32		*PP 43 40				38.8N 143.7E
JUN 15	00	54 21.0C						51.5N 159.5E
JUN 15	02	25 40.6					1.3	37.2N 138.6E
JUN 15	02	43 44.4						
JUN 15	03	42 44.9		*PP 42 52			1.3	39.3N 142.8E
JUN 15	05	23 47.2						14.4N 92.8W
JUN 15	06	10 48.8C		*PP 11 25			1.6	26.9N 126.4E
JUN 15	07	21 33.0C	32 08	I 21 37			2.1	5.6N 82.5W
JUN 15	07	51 06.8						11.9N 143.9E
JUN 15	11	38 09.1C		*PP 38 22			2.0	51.7N 159.3E
JUN 15	13	47 52.0	56 22	I 57 03				60.9N 146.8W
JUN 15	14	11 31.0C					1.8	NEVADA
JUN 15	14	35 51		I 35 56				42.8N 18.5E
JUN 15	20	04 20.0C		*PP 04 34			1.9	41.8N 142.6E
JUN 15	23	25 35.0						41.4N 142.4E
JUN 16	01	17 47.1						41.6N 143.2E
JUN 16	06	51 13						41.3N 143.1E
JUN 16	08	40 15.2						36.8N 34.4E
JUN 16	11	49 12.5						JAPAN
JUN 16	11	56 26.7						
JUN 16	12	16 03.8						40.4N 142.1E
JUN 16	13	08 28.1C						37.9N 14.8E
JUN 16	17	08 02.0C					1.1	40.2N 143.7E
JUN 16	19			I 03 00				39.5N 141.8E
JUN 16	19			PS 43 22	SS 49 44			53.9S 8.7E
JUN 16	20	50 10.6						39.5N 142.5E
JUN 17	04	38 38						22.4N 121.3E
JUN 17	05	02 40						40.7N 48.0E
JUN 17	05	05 13.0C		I 05 16				40.8N 48.2E
JUN 17	06	34 47.5C		I 34 56			1.2	37.4N 72.2E
JUN 17	08	09 25.2						14.3N 92.8W
JUN 17	12	04 14.6C	13 28	I 04 17	*PP 04 30	PP 07 06	2.3	40.9N 142.9E
JUN 17	16	56 20.3					1.0	JAPAN

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1968 MTH DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS	
JUN 17	17	07 39.1C		*PP 07 48			1.7	40.1N 143.7E	
JUN 17	18	28 38.1					1.3	12.3S 166.6E	
JUN 17	19	01 56.8		*PP 02 06				39.2N 143.2E	
JUN 17	19	08 58.8		I 09 01	*PP 09 11			38.6N 143.6E	
JUN 18	02			SG 06 44				66.9N 13.5E	
JUN 18	05	31 12.7		I 31 18				45.7N 8.0E	
JUN 18	07	00 36.2C		I 00 38	SKP 03 24			21.6S 179.5W	
JUN 18	07	49 26		*PP 49 37				41.4N 142.8E	
JUN 18	09	07 44.9						39.7N 141.8E	
JUN 18	11	21 39.2						37.9N 23.4E	
JUN 18	11	28 44.3							
JUN 18	13	21 21.0C		I 21 43					
JUN 18	16	16 49.9						29.4N 138.7E	
JUN 18	17	21 54.8C						41.4N 142.5E	
JUN 19	01	49 41.8		*PP 49 52				39.4N 142.9E	
JUN 19	05	13 20.6C							
JUN 19	08	26 50.8	36 57	I 26 57	I 27 04	PP 30 48	1.9	49.9N 79.0E	
JUN 19	11	45 37.0C					2.2	5.5S 77.1W	
JUN 19	15	09 25		I 10 06				30.7S 177.8W	
JUN 19	18	14 41.7C		*PP 14 52				CAUCASUS	
JUN 19	20	17 01.8C						40.3N 143.2E	
JUN 20	01	03 26.0						43.9S 75.1W	
JUN 20	02	51 55.6		S 03 07				5.5S 77.3W	
JUN 20	08	26 25.8C		*PP 26 34				40.2N 142.3E	
JUN 20	08	32 32.5						IRAN	
JUN 20	08	39 50.3						12.3S 166.8E	
JUN 20	11	09 43		I 10 11					
JUN 20	12	19 09.9						35.3N 24.0E	
JUN 20	18			SG 21 30				66.4N 14.8E	
JUN 20	18	23 37.2		*PP 23 48				41.4N 142.5E	
JUN 21	00		50 08	S 50 44				5.7S 77.2W	
JUN 21	01	37 06.7						15.3N 92.0W	
JUN 21	17	22 57.2						72.2N 1.0E	
JUN 21	19	03 48.1						29.8N 142.7E	
JUN 21	21	1.6 25.9C						31. N 137.5E	
JUN 22	01	23 54.9C	33 12	*PP 24 04	PP 26 33	PPS 34 08	2.0	40.2N 143.6E	
JUN 22	01	32 36.7C						JAPAN	
JUN 22	08			SKP 30 18				20. S 177.8W	
JUN 22	11	17 03.0						41.4N 142.9E	
JUN 22	12	25 11		I 25 17				45.8N 11.3E	
JUN 22	16	04 29.4D						29.6N 51.4E	
JUN 23	05	09 04.6						41.5N 143.3E	
JUN 23	05	32 03.7						39.1N 142.9E	
JUN 23	09	23 59	30 18	I 24 01	PP 25 37	SS 33 04		29.8N 51.1E	
JUN 23	17	04 08.2	12 38					56.7N 152.4W	
JUN 24	09	57 20.7						CRETE	
JUN 24	10	22 40.8D						IONIAN SEA	
JUN 24	17			E 00 57	I 01 53				
JUN 24	17			PG 22 42	SG 23 23			61.9N 5.5E	
JUN 24	18			SG 10 06				66.4N 14.8E	
JUN 24	18	35 14						CASPIAN SEA	
JUN 24	20	23 03.1						1.5S 15.7W	
JUN 25	06	57 13.0C							
JUN 25	10	20 19		I 20 26				CAUCASUS	
JUN 25	23	44 45.5C	54 11	I 44 51	*PP 44 55		1.6	39.5N 143.4E	
JUN 26	01	53 50	03 28	I 54 05				40.1N 124.3W	
JUN 26	02	01 56						29.8N 51.0E	
JUN 26	02	02 26.1D						1.4	IRAN
JUN 26	10	34 57.3C		I 35 10				2.1	42. N 142.6E
JUN 27	15	47 10.8						46.3N 6.9E	

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1968 MTH DY	HR	F/FKF M S	S/SKS M S	SLPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
JUL 12	11			I 47 11	*PPKP 49 21			30,7S 178,9E
JUL 12	12	15 16.5C						1.5 49,6N 78,1E
JUL 12	16	54 07.2		*PP 54 16				1.4 39,8N 142,8E
JUL 12	22	12 02.1						1.5 48,0N 154,5E
JUL 13	06	57 08						6,3S 149,7E
JUL 14	04	07 43.3		E 07 47				15,2N 88,8W
JUL 14	05	36 03.1						40,8N 142,9E
JUL 14	07	34 52.0						40,9N 142,8E
JUL 14	18	22 56						30,2N 94,7E
JUL 14	21	03 55						40,0N 144,2E
JUL 15	00	01 11.6						35,4N 141,1E
JUL 15	01	33 37						36,3N 68,4E
JUL 15	06	40 50.1						1.1 32,5N 48,7E
JUL 15	16	28 36.5						35,4N 141,1E
JUL 16	11	06 51						41,4N 142,3E
JUL 16	11	21 45						36,0N 71,2E
JUL 16	21	44 27						13,5S 167,1E
JUL 17	06	35 36.5		*PP 35 42				10,4N 83,4W
JUL 17	22	35 05						56,3N 154,0W
JUL 18	01	10 44.4C		*PF 10 58				46,1N 153,1E
JUL 18	05	23 57						19,5S 175,9W
JUL 18	11	32 21.0		*PP 32 32				1.4 40,2N 143,6E
JUL 18	17	32 30.5C						8,9N 93,9E
JUL 18	17	55 26						8,8N 93,8E
JUL 19	05	06 28		*PF 08 37	PP 11 20			8,7N 93,6E
JUL 19	06	15 23						8,9N 93,8E
JUL 20	08	03 44						21,6N 142,9E
JUL 20	08	30 08						39,4N 73,8E
JUL 20	16			PN 53 28	PB 53 33	SN 54 12		62,0N 4,9E
JUL 21	00	36 10						14,4N 93,1W
JUL 21	01	48 30.5C						21,9S 179,4W
JUL 21	01	50 03.5C						1.5 55,2N 113,3E
JUL 21	06			PS 21 34	SS 28 02			3,2S 150,7E
JUL 21	13	02 01						24,9N 123,4E
JUL 21	13			I 32 19				32,1S 178,8W
JUL 21	17	08 08.5						30,1N 50,9E
JUL 21	17	15 52						
JUL 21	18	35 41.0C						1.3 27,8N 140,0E
JUL 21	21	12 12.1D		I 12 56	*PP 14 11			49,7N 147,8E
JUL 22	00	25 01.1						1.5 42,3N 142,3E
JUL 22	05			PS 38 40	SS 45 08			54,6S 1,7E
JUL 22	07	05 16.8						56,8N 152,0W
JUL 22	09	08 57						44,9N 34,4E
JUL 22	18	17 47		*PPKP 17 59	PP 20 40			20,1S 169,0E
JUL 22	18	55 56						
JUL 22	22	45 04						30,3N 138,4E
JUL 23	11			PG 49 46				
JUL 23	12	17 04		*PP 17 13				39,8N 143,6E
JUL 23	16	20 42.5C		*PF 20 51				1.5 39,9N 143,4E
JUL 23	16	40 43.6	51 30					18,7N 107,0W
JUL 23	21	02 01						30,3N 94,9E
JUL 23	23	13 59.0C	23 26	*PP 14 10	PP 16 48			1.7 40,3N 143,3E
JUL 24	04	15 23	30 14	SS 35 46				18,1N 106,0W
JUL 24	06	33 31						19,7N 70,1W
JUL 24	09	09 31						24,9S 179,6E
JUL 24	16	37 02.7		*PF 37 16				40,2N 142,2E
JUL 24	21	01 30.2						38,4N 22,2E
JUL 25	04	21 00						GREECE
JUL 25	07	42 45.0C		I 42 50	I 56 40			2.9 30,8S 178,4W
JUL 25	08	07 29.5						1.5 30,9S 178,0W

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1968 MTH DY	HR	P/PPK M S	S/SKS M S	SLPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
JUL 25	05			I 13 18				31,1S 178,0W
JUL 25	11	C1 25.0C		*PP 01 38	PP 03 59			1.6 45,7N 146,7E
JUL 25	11			E 51 34				31,0S 178,1W
JUL 25	22	10 13						40,9N 20,0E
JUL 26	06		57 10					14,4N 93,0W
JUL 26	14	13 11.5						8,6S 74,2W
JUL 26	17	15 55						22,3S 12,6W
JUL 26	18	41 52						6,8N 73,0W
JUL 26	20	56 36.5C						32,1N 70,1E
JUL 26	22	05 51.5		I 05 59				31,2S 177,9W
JUL 27	02	51 36	56 22	I 51 42				35,4N 27,8E
JUL 27	04	32 07						44,4N 147,5E
JUL 27	08	34 15.3						38,5N 142,3E
JUL 27	11	10 52						19,2S 175,7E
JUL 27	17	52 33						52,5N 170,6W
JUL 27	21	42 13.5						
JUL 28	00			I 00 20				30,9S 176,7W
JUL 28	03	35 24						52,8N 167,1W
JUL 28	07	28 16.5		*PP 28 27				41,2N 142,7E
JUL 28	11	17 57						22,5S 174,7W
JUL 28	14	14 51.5		*PF 15 17				40,9N 142,3E
JUL 28	18	55 54						39,4N 143,4E
JUL 28	21	22 59.0	31 20					55,4N 166,6E
JUL 28	21	33 25						55,3N 166,8E
JUL 29	06	35 36						52,9N 167,1W
JUL 29	07	47 16						52,8N 167,0W
JUL 29	10	06 33.5		*PP 06 43				15,1N 94,0W
JUL 30	00	06 28						00,2S 133,4E
JUL 30	17	45 36.6						1.7 44,1N 148,8E
JUL 30	20	52 10	03 06	PF 56 00	S 03 34	SP 05 10		6,9S 80,5W
JUL 31	01	48 46.1						40,3N 144,0E
JUL 31	01	51 56.7C		*PP 52 07				JAPAN
JUL 31	06	50 58						52,0N 173,0E
JUL 31	05	27 08						37,8N 21,4E
JUL 31	14	05 46.1		I 06 06				31,5S 178,1W
JUL 31	14	30 52						
JUL 31	15	35 13.1C						35,5N 28,0E
AUG 1	00	33 36.6C		*PPKP 34 14				2.7 26,6S 177,5W
AUG 1	06	55 32.9						52,9N 159,3E
AUG 1	14	25 40.0						39,2N 29,9W
AUG 1	18	21 28						
AUG 1	18	38 36.6C						1.6 40,0N 139,2E
AUG 1	20	31 56.4C	42 30	I 32 01				16,5N 122,2E
AUG 1	20	47 15.5						LUZON
AUG 1	20	55 45.8						16,5N 122,4E
AUG 1	21			I 10 01				16,0N 122,2E
AUG 1	23	19 30						LUZON
AUG 1	23	25 05						16,0N 122,3E
AUG 2	04	06 10						36,6N 49,1E
AUG 2	13	38 50.4	45 40	I 39 11	I 45 46			2.1 27,5N 60,9E
AUG 2	13	48 13.5C						
AUG 2	14	15 13.5C	30 00	I 15 23	PP 22 35			2.7 16,6N 97,7W
AUG 2	17	25 47		*PP 25 55				57,0N 151,5W
AUG 2	19			PG 44 51	SG 45 21			
AUG 3	05	06 41.5C	16 48	*PP 06 52	PP 05 52			2.9 25,6N 128,5E
AUG 3	06	37 41.0C	48 20	*PP 37 46				2.7 16,5N 122,3E
AUG 3	14	10 34.0		*PP 10 44				25,8N 62,8E
AUG 3	15	51 15.4						15,6N 122,0E
AUG 3	16	04 27.0		*PP 04 38				16,0N 122,4E
AUG 3	19	31 40.0C	42 10					16,3N 122,4E

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1968	MTH	DY	HR	P/PKP M S	S/SKS M S	SLPF. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
AUG	4	00	58	C2.1						39.0N 21.9E
AUG	4	02	17	20.CC						16.7N 122.5E
AUG	4	08	17	52.9						16.5N 122.4E
AUG	4	11	54	41.6C	C4 56	I 54 48	PP 58 44	S 05 20		6.6N 126.8E
AUG	4	15	35	16						16.2N 122.5E
AUG	4	18	12	46						16.4N 122.6E
AUG	4	18	24	24.C						35.4N 27.9E
AUG	4	15	11	53.C						TADZHIK SSR
ALG	4	15	50	36.1						39.6N 143.4E
AUG	4	23	25	22.3C		I 29 35				37.7N 20.7E
AUG	5	02	45	12.2						35.7N 70.2E
AUG	5	05	01	48		I 01 57				73.2N 6.3E
ALG	5	07	18	40						
AUG	5	08	35	15.8						16.0N 122.0E
AUG	5	15	03	46						
AUG	5	16	28	40.1C	38 08	I 28 41	*PP 28 55	PP 31 40	2.2	33.3N 132.2E
AUG	5	16	53	36						17.2N 92.3W
AUG	5	20	45	15.5						36.3N 140.0E
AUG	5	21	02	54.4						33.8N 132.2E
ALG	6	00	21	26						26.7N 44.6W
AUG	6	00	37	16						41.6N 142.5E
ALG	6	02	46	12.6		*PP 46 24				33.4N 132.3E
AUG	6	03	15	03.6		I 19 04				16.6N 122.4E
AUG	6	03	25	04						16.2N 121.9E
AUG	6	04	32	38.CC		*PP 32 50			1.4	33.4N 132.2E
ALG	6	04	47	26.5C						25.6N 128.4E
AUG	6	05	05	41.2		*PP 05 45			1.5	15.7N 121.9E
AUG	6	05	15	57.3	16 14	PK 15 58	SN 16 16			60.0N 10.3E
ALG	6	08	44	14.8C		*PP 44 25				13.9N 51.5E
AUG	6	05	40	45						
AUG	6	10	20	08.0C						25.7N 128.4E
AUG	6	23	57	14.3						15.5N 121.8E
AUG	7	04	06	02						15.7N 121.9E
AUG	7	08	11	18.6C	20 28	*PP 11 36			2.2	43.1N 144.6E
ALG	7	08	27	20.0						AEGEAN SEA
AUG	7	09	00	21.5						24.7N 125.0E
ALG	8	00	15	51		*PP 06 58			2.1	36.4N 141.4E
AUG	8	05	06	47.5C						25.8N 128.6E
AUG	8	05	32	00.6						16.0N 122.0E
AUG	8	14	20	24						
ALG	8	15				PG 30 40	SG 31 05			39.4N 143.0E
AUG	9	01	55	02						22.4S 113.0W
AUG	9	03				E 27 15	PP 28 28	SS 46 06		43.4N 147.1E
AUG	9	10	45	12.CC		*PP 49 21			2.0	15.7N 121.9E
AUG	9	21	46	33.E						
AUG	10	00	46	48						76.7N 10.5E
AUG	10	01	08	20						76.0N 5.5E
AUG	10	02	20	50.1	31 40	I 20 56				1.4N 126.2E
AUG	10	02	37	12.2						
AUG	10	02	57	21						
AUG	10	02	58	17						
AUG	10	03	00	26						
AUG	10	04	16	11						1.4N 126.4E
AUG	10	04	15	38						1.3N 126.5E
AUG	10	04	34	20.2C						36.9N 43.0E
AUG	10	05	00	34						76.0N 8.7E
AUG	10	06	05	34		*PP 05 47				1.5N 126.2E
AUG	10	06	24	04						1.6N 126.2E
AUG	10	10	15	43						1.6N 126.3E
AUG	10	10	45	22.E						

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1968	MTH	DY	HR	F/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
AUG	10	13	03	57.1						LUZON
AUG	10	13	17	46						LUZON
ALG	10	13	58	03.7C						29.3N 139.2E
AUG	10	16	54	04.2	04 32	*PP 54 14				15.5N 121.6E
AUG	10	15	37	50		PKS 41 14				21.5S 170.4E
AUG	10	20	02	31.4C						17.0N 122.4E
AUG	10	22	18	50						LUZON
AUG	10	22	30	46.0						
AUG	11	02	55	33.C						15.2S 74.0W
AUG	11	02	55	38						1.8N 126.4E
AUG	11	12	20	52.CC						1.3 25.6S 179.8E
AUG	11	12	48	03.5C	56 41	*PP 48 45			1.8	52.1N 179.9W
AUG	11	12	45	53.3						41.5N 142.1E
AUG	11	20	14	30	25 10	PP 18 46	S 25 54			1.6N 126.1E
AUG	12	02	51	20						JAPAN
ALG	12	13				PG 30 15	SG 31 03			
AUG	12	18				I 26 57	I 26 59	I 27 08		31.4S 177.9W
AUG	12	20	43	02.5		I 43 05				41.4N 142.6E
AUG	12	20	45	18		I 45 28				
AUG	12	21	05	03						41.4N 142.7E
AUG	13	03	06	36.CD						2.0N 126.3E
AUG	13	15	54	20.0		PKS 57 36			1.5	15.5S 167.5E
AUG	14	01	23	55.5C		*PP 24 05				55.6N 162.1E
AUG	14	08	05	22.1C	19 46	I 05 23			1.5	15.1N 122.5E
AUG	14	08	51	17.6C		*PP 51 26			1.7	18.5N 102.8W
AUG	14	15	51	03.8C						45.7N 26.5E
AUG	14	18	28	30						GREECE
AUG	14	22	28	00	38 50	I 28 04	PP 32 10	S 39 18		0.2N 119.8E
AUG	15	02	35	26						35.3N 26.8E
AUG	15	07	05	45		I 05 47			1.6	23.8S 177.4W
ALG	15	08	42	13.6						CAUCASUS
AUG	15	18	00	37.CD		I 00 49			1.5	12.7S 166.2E
AUG	15	22	26	21		*PP 26 31				27.2N 125.3E
AUG	16	02	50	19						21.8S 179.5W
AUG	16	10	50	48.2C	00 24	I 50 54			1.9	38.5N 143.3E
ALG	16	11	52	25		I 52 33			1.4	21.1S 179.3W
AUG	16	18	38	24.2					1.7	16.7N 97.7W
AUG	16	21	37	13					1.3	18.4N 102.9W
AUG	17	04	14	23.5	25 02	PP 18 46	SP 27 28			1.4N 126.3E
AUG	17	04	50	03.1		*PP 50 22			1.3	31.6N 140.8E
ALG	18	07	23	54.1						35.3N 135.3E
AUG	18	12				E 05 55				48.2N 157.3E
AUG	18	14	25	15.5		*PP 29 25				26.4N 90.6E
AUG	18	18	27	41.2		PP 29 52				12.7S 166.2E
AUG	18	18				I 56 25	PKP 56 29	PKKP 06 25		10.1S 159.9E
AUG	18	21	08	11.5						15.3N 61.4W
AUG	19	00	40	14						46.4N 6.9E
AUG	19	11	55	10						
AUG	19	15				PG 24 04	SG 24 34			33.8N 25.8E
AUG	19	15	41	50.C						
AUG	19	16	01	32						15.9S 174.0W
AUG	19	17	15	31						11.8N 125.6E
AUG	20	03	34	47.1		I 34 51				31.1S 179.9E
AUG	20	04	13	17.8						50.0N 78.0E
AUG	20	08	22	02						25.2S 179.9W
ALG	20	15				I 45 17				31.2S 178.4W
AUG	21	18	01	03.E						
AUG	21	18				I 16 32	I 28 09			30.9S 179.1W
AUG	22	02				I 27 58	I 28 09			31.5S 178.0W
AUG	22	07	52	54						29.8S 176.9W

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1968	F/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG	REMARKS
MTH DY HR	M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T	
AUG 22 13			I 43 12				52.8N 171.0E
AUG 22 14	10 46.1C						53.0N 171.0E
AUG 22 15	55 36						15.7N 121.8E
AUG 22 17	26.8C						33.3N 132.4E
AUG 22 22	45 49.5		*PP 51 45	I 02 16	PKKP 05 54		22.0S 63.5W
AUG 24 15	26 42		*FPKP 26 46	I 26 57			32.9S 178.9W
AUG 24 15			I 25 24				
AUG 24 15	34 48.8		*FPKP 34 57				
AUG 24 16			I 27 51	*PPKP 28 00			32.9S 179.0W
AUG 25 03			PG 10 10	SG 11 03			SCUTH NORWAY
AUG 25 03	24 25.5		I 24 3E				
AUG 25 05	18 53.5C	28 30	*PP 19 05	PP 21 38		2.2	40.1N 143.2E
AUG 25 05	25 10.5C		*PP 25 17	PP 27 54		2.0	40.1N 143.3E
AUG 26 1E	31 33.0C						36.4N 70.7E
AUG 28 02	2E 00.5						15.5N 122.3E
AUG 28 12	05 51						20.0S 176.3E
AUG 28 17	50 26.6						
AUG 28 20	54 58.0C	05 41	I 55 02	PP 58 26		2.2	15.6N 122.0E
AUG 29 01	45 02.0C					1.7	15.4N 121.9E
AUG 29 08	1E 11.5		*PP 18 15				15.5N 122.1E
AUG 29 21	20 44.6		*PP 20 53			1.5	15.9N 121.7E
AUG 29 22	56 31.0C					1.7	NEVADA
AUG 29 23	11 50.6		I 12 00				
AUG 30 00	06 54.1		I 07 03				
AUG 30 02	56 13.1C		*PP 56 21			1.8	40.0N 142.7E
AUG 30 05	35 20.5						51.3N 157.7E
AUG 30 05	3E 25						41.0N 48.2E
AUG 30 11	47 58.5C						
AUG 30 22	12 03	20 02	*PP 12 58				14.6N 56.3E
AUG 31 10	55 21.5C	01 22	I 55 25	I 55 31	PP 57 12		34.0N 59.0E
AUG 31 11	42 14.5		I 42 17	PP 43 55		1.5	33.9N 59.2E
AUG 31 13	30 42						34.1N 59.4E
AUG 31 14	13 59.1		I 14 04				34.1N 59.4E
AUG 31 14	35 54.7		*PP 36 04				39.8N 143.6E
AUG 31 16	56 54.1		*PP 57 03			1.3	39.8N 143.5E
AUG 31 17	27 3E.3						26.1S 178.1E
AUG 31 18	15 20.5		I 15 37				56.3N 115.6E
SEP 1 00	43 51		I 43 52				30.7S 178.3W
SEP 1 01	24 46						43.0N 17.4E
SEP 1 04	55 48						1.0S 24.5W
SEP 1 05	46 00.9C						39.1N 46.0E
SEP 1 07	35 0E.2C	41 02	I 35 12	PP 36 38	SS 44 02		34.0N 58.2E
SEP 1 09	34 48.5						45.0N 148.9E
SEP 1 09	39 42						
SEP 1 11	11 44.5						34.0N 59.6E
SEP 1 12	41 53						IRAN
SEP 1 15	24 13						34.2N 58.3E
SEP 1 21	24 16.9						34.4N 58.0E
SEP 2 15	40 17						31.1S 178.6W
SEP 3 05	34 28.0C		I 34 50	*PP 34 55			42.9N 145.2E
SEP 3 07	13 01.8	22 26	*PP 13 13				37.9N 141.7E
SEP 3 08	25 02.0	29 14	I 25 04				41.8N 32.3E
SEP 3 09	1E 18.0C						41.6N 32.3E
SEP 3 10	01 31.1						33.8N 59.2E
SEP 3 11	01 25	05 47	I 01 32				41.8N 32.4E
SEP 3 12	27 10		I 27 14				TURKEY
SEP 3 12	35 33.1						TURKEY
SEP 3 14	14 15.1	18 40					41.7N 32.4E
SEP 3 15	47 22.5C	56 16	*PP 47 43			2.0	20.6N 62.2W
SEP 3 1E	56 15.8		*PP 56 36	SS 06 06		1.8	36.2N 69.2E

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1968	P/PKP	S/SKS	SLPF. 1	SUPP. 2	SUPP. 3	LOG	REMARKS
MTH DY HR	M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T	
SEP 3 15	08 59						1.0N 28.2W
SEP 3 21	13 23						41.8N 31.9E
SEP 3 22	33 36.5					1.5	29.3N 139.3E
SEP 3 22	36 05	36 49					58.4N 14.1E
SEP 4 05	17 51		PB 36 10				32.9N 138.6E
SEP 4 06	31 05						TURKEY
SEP 4 08	16 28		I 31 15				33.9N 59.2E
SEP 4 10	44 56.9						53.2N 159.7E
SEP 4 11	27 17.7		I 27 21				33.9N 59.1E
SEP 4 17	11 12	12 42	SG 13 27				66.8N 23.5E
SEP 4 23	32 26.7C		PP 33 5E			1.8	34.0N 58.2E
SEP 5 04	13 18.0C					2.0	49.8N 78.1E
SEP 5 05	05 35.8C		*PP 05 44			1.4	46.7N 82.2E
SEP 5 18	48 09						34.0N 26.8E
SEP 6 02	35 18		I 35 26				34.0N 59.3E
SEP 6 14	11 31.1C		I 11 42			1.7	37.1N 116.0W
SEP 6 15	34 34.2C	44 18	*PP 34 46			1.6	31.0N 131.9E
SEP 6 20	25 23.2		*PP 25 31			1.4	
SEP 6 23	32 45.5						56.4N 153.9W
SEP 7 01	5E 13.6						43.3N 147.1E
SEP 7 06	37 27.1						56.6N 153.4W
SEP 7 12	36 23.2	37 11	PB 36 37	PG 36 42			62.5N 5.5E
SEP 7 16	11 05						58.4S 25.6W
SEP 7 23	35 2E.1						NEW HEBRIDES
SEP 8 00	35 55		PKS 39 25				17.6N 167.7E
SEP 8 02	12 41.6					1.5	45.4N 142.7E
SEP 8 07	56 47						39.8N 143.4E
SEP 8 08	56 13.2						40.1N 143.8E
SEP 8 12	23 17						58.2S 26.6W
SEP 8 12	45 21						17.5S 167.8E
SEP 8 14	46 51						17.6S 167.8E
SEP 8 15	27 05		PKF 30 59	PP 31 45	PS 41 16		3.7S 143.0E
SEP 8 20	20 52.3					1.3	46.0N 151.4E
SEP 9 00	48 27.3	58 54	*PP 49 06	S 55 35			8.7S 74.5W
SEP 9 00	50 55.2C	01 21	*PP 51 33	*SP 51 46	S 02 02		8.7S 74.5W
SEP 9 02	25 36.1		I 25 35			1.3	66.1N 142.1E
SEP 9 02	52 49						17.5S 167.8E
SEP 9 02	55 02						
SEP 9 05	04 47.1		*PP 04 54				59.0N 149.2W
SEP 9 05	34 23.8						
SEP 9 07	26 10.1		*PP 26 21				42.9N 147.0E
SEP 9 09	58 24		I 58 31				79.5N 3.8E
SEP 9 11	54 27		I 54 31				41.6N 32.3E
SEP 9 1E	37 06						52.0N 174.2E
SEP 10 01	53 51		I 53 56				41.7N 32.4E
SEP 10 06	12 08.1						45.0N 150.5E
SEP 10 16			E 20 49				66.4N 14.8E
SEP 10 17	25 55.1C		*PP 26 47			1.4	36.3N 70.8E
SEP 10 20	35 47						34.0N 59.4E
SEP 10 22	43 32.8C						
SEP 10 23	26 12.8						14.3N 92.9W
SEP 11 04	45 54.6		*PP 46 05				50.4N 176.0W
SEP 11 1E	45 34.1						43.0S 75.2W
SEP 11 15	24 54.7		I 24 57	PP 26 30		1.4	33.9N 59.4E
SEP 12 12	51 32.2						41.1N 142.8E
SEP 12 13	47 55.0C		*PP 48 04	I 4E 14		1.6	35.7N 143.6E
SEP 12 15	45 09						35.8N 77.8E
SEP 12 23	02 18.2C		SKKF 13 39	SKP 06 04		2.2	21.6S 179.4W
SEP 13 01	11 27.1C					1.4	41.3N 142.4E
SEP 13 05			I 21 37				30.8S 179.1W

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1968 MTH DY HR	P/PKP P S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
CCT 15 17	45 56.8						30,3S 178,0W
CCT 15 20	22 20.4						9,0N 126,3E
OCT 16 C2	06 35.5						19,2N 69,8W
CCT 16 C8		07 44	SS 12 41	SSS 16 38			29,3N 129,4E
CCT 16 12			SG 48 34				SOUTH NORWAY
CCT 16 15	34 42.5						32,6N 48,8E
OCT 17 13	35 44.7C					1.1	39,4N 141,9E
CCT 17 23	33 05.9						28,4S 176,9W
OCT 18 CC	01 13.8C		I 01 28				38,3N 20,2E
CCT 18 1C	08 10.4		*PP 08 29			1.5	42,0N 142,3E
OCT 18 12	15 48.0						42,2N 142,6E
CCT 19 02	41 37.7		I 41 40	I 41 43			37,3N 73,1E
OCT 19 C7	05 42.7C		I 05 44			1.5	37,3N 73,2E
CCT 19 1C	00 14.3		PP 02 05			1.5	37,5N 73,3E
CCT 19 15	40 35.1		I 40 39	I 40 43			35,3N 23,5E
CCT 19 19	27 53.8C					1.6	41,8N 142,7E
OCT 20 C7	20 13.8C	30 17	I 20 17			2.1	25,0N 122,5E
OCT 20 22	15 03.6						45,7N 26,6E
CCT 21 14	16 03.9						6,5N 76,5W
CCT 21 18	22 24.6						35,2N 23,4E
CCT 21 23	28 24.0		I 28 30				
OCT 21 23	44 55.1						53,5S 140,3E
CCT 23 02	13 47.3C						3,3S 143,3E
CCT 23 21	23 21.2		I 24 08			2.0	
CCT 23 21	32 54.2C		I 32 58				
CCT 24 CC	55 45						7,2N 126,6E
CCT 24 14	12 19.1						1,5N 126,4E
OCT 24 16	04 44.6		*PP 04 56	PP 08 50			5,9N 127,0E
CCT 24 21	56 43.5					1.2	33,1N 142,1E
OCT 24 22	46 34.5C		I 46 37				49,7N 155,8E
CCT 25 1C	41 51.1		I 41 55	*PP 42 12		1.3	4,3N 95,5E
OCT 25 11	45 14.3C						50,6N 177,4E
CCT 26 14	28 51.5						29,2S 178,6W
CCT 26 16	07 35.2C		*PP 07 47	I 07 52			42,9N 145,2E
CCT 26 19	27 40.6						52,4N 169,5W
CCT 27 13	55 32.5C		I 55 34			1.4	5,9N 125,6E
OCT 28 12	55 46.0C		I 59 52			1.9	39,0N 25,9E
OCT 28 14	52 31.5C		*PP 52 47				33,4N 140,8E
CCT 28 15	55 45.5		I 59 45				39,0N 26,0E
CCT 28 2C			PG 57 13	SG 57 53			
OCT 28 23	51 30.0		*PPKP 51 45	PP 53 38		2.3	12,5S 166,5E
CCT 29 C4	18 12.0C		I 18 20			1.7	31,2N 141,6E
CCT 29 C6	38 57.1C						31,2N 141,7E
CCT 29 C6	57 20.8C						31,2N 141,7E
CCT 29 C7	35 35		SKP 42 17				17,8S 178,8W
CCT 29 1C	10 26.1		I 10 28				17,3N 73,9E
OCT 29 22	25 35.2	33 06	I 25 37				65,4N 150,1W
OCT 30 C4	15 35.1C						37,4N 73,2E
CCT 30 1C			I 01 20	I 01 26			31,0S 179,9W
OCT 30 1E	57 36.8		I 57 39				37,9N 38,6E
OCT 31 CC	35 C3						65,4N 150,1W
CCT 31 C3	27 54.8C		I 28 02				36,6N 27,1E
CCT 31 C9	20 22.8						1,2N 126,3E
NOV 1 20	57 23.2C						37,6N 72,2E
NOV 2 03	25 52.1						7,0S 155,6E
NOV 3 C4	54 00.5	57 42	I 54 10	I 54 13			42,1N 19,4E
NOV 3 15	04 59.1						40,1N 143,7E
NOV 3 18	45 25.6C		I 45 28				38,8N 29,2E
NOV 4 05	25 36.0C	34 13	I 25 46	SKP 26 18	PKS 29 16		14,2S 172,0E
NOV 4 20	11 35.6C						36,5N 27,1E

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1968 MTH DY HR	P/PKP P S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
NOV 5 C2	11 41.1						32,4N 76,4E
NOV 5 18	43 44.0C						KAMCHATKA
NOV 6 C1	40 08.2						40,3N 143,6E
NOV 6 C6	33 18.4C						41,2N 143,1E
NOV 6 13	47 04.0C					1.3	35,2N 32,8E
NOV 6 17	13 30.0C					1.4	31,7N 50,7E
NOV 7 C5	30 23.6C					1.7	40,2N 142,3E
NOV 7 1C	06 42.5C						73,4N 54,9E
NOV 7 14	47 40.8C						45,0N 150,0E
NOV 7 17	12 14						54,3N 164,7W
NOV 7 23	15 56.1						53,8N 165,7W
NOV 8 C8	01 43.1C						13,3S 167,2E
NOV 8 16	14 25.6						64,7N 17,4W
NOV 8 17	16 32.0C						GREECE
NOV 8 18	45 28.1						19,5S 179,2W
NOV 9 C3	01 18.8						45,8N 78,0E
NOV 9 12	44 08.8						40,1N 28,7E
NOV 9 13	52 46.8	00 34	PP 55 00			1.5	23,8N 64,7E
NOV 9 17	11 56.1C		I 12 04				38,0N 88,5W
NOV 9 19	23 56.5C						63,9N 21,1W
NOV 9 20	44 25.8						2,4N 126,8E
NOV 10 12	56 28.5						34,8N 24,3E
NOV 10 14	25 06.8						44,8N 146,7E
NOV 10 14	35 23.2						34,4N 23,9E
NOV 10 15	25 53.2						41,4N 142,0E
NOV 10 17	14 17.5	24 34	*PP 14 28	I 14 32			20,0N 121,4E
NOV 10 21	38 04						3,6S 102,0E
NOV 11 C2	12 00.4						52,8N 175,0W
NOV 11 02	16 53.1					1.4	19,6S 179,1W
NOV 11 C7	01 54.1						24,6N 142,7E
NOV 11 C9	04 04.0C					1.8	57,3N 155,3W
NOV 11 14	52 36.5C	01 57	PP 55 24	I 04 33		2.1	40,1N 143,0E
NOV 11 17	16 53.8C		I 17 04			1.4	25,3N 140,9E
NOV 11 23	40 00.0	44 44				1.4	36,7N 27,1E
NOV 11 23	58 44.4C						36,5N 27,2E
NOV 12 C0	56 08.4C						27,5N 128,4E
NOV 12 C3	42 14.3	48 05					36,6N 27,3E
NOV 12 C6	14 34.0						36,6N 27,3E
NOV 12 C7	37 17.6						KAZAKH SSR
NOV 12 C9	08 46.1		*PP 08 58	PCP 09 05			41,2N 143,9E
NOV 12 14	15 53.6						40,0N 142,6E
NOV 13 12	08 31.8						58,3N 32,7W
NOV 13 16	07 40.4						20,8S 178,8W
NOV 13 18	53 06.1C	02 32	*PP 53 19	SKP 10 27	PP 55 50	PPP 57 24	40,2N 142,5E
NOV 14 12	23 38.5					2.0	31,6N 131,5E
NOV 15 C1	58 26						41,6N 142,6E
NOV 15 C6	32 56.5						IRAN USSR
NOV 16 C0	42 38.5						18,0S 168,5E
NOV 17 C0	27 53.0C	37 39	*PP 28 37	*SS 38 50			9,6N 72,6W
NOV 17 C7	51 55.2	00 35	*PP 52 03	I 52 15	PPP 56 03		1,3S 13,6W
NOV 17 1C	47 53.1						51,9N 175,0E
NOV 17 13	1C 33.1C					1.5	39,7N 143,2E
NOV 17 2C	36 03.8		*PP 10 43				TURKEY
NOV 18 03	00 41						7,0S 155,8E
NOV 18 C5	13 34.7						33,1N 71,1E
NOV 18 06	14 03.6						37,4N 141,4E
NOV 18 15	33 24.8					1.5	43,9N 141,2E
NOV 18 17	28 51						36,5N 140,5E
NOV 19 C4	04 20.6						ALEUTIAN ISL
NOV 19 23	00 07						8,7N 94,1E

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1968	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG	REMARKS
MTH DY HR	M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T	
NOV 20	C1 55 16.2C					1.2	45,7N 26,8E
NOV 20	18 11 31.8C						NEVADA
NOV 20	15 56 23						15,2N 60,4W
NOV 21	03 12 30.CC		*PP 13 12			1.2	36,4N 70,6E
NOV 21	14 44 50.0						18,8N 145,0E
NOV 22	C4		I 02 55				34,5S 179,8E
NOV 22	C5 08 49.CC						32,9N 139,2E
NOV 22	C9 12 01.0	22 34	I 12 05				16,3N 122,3E
NOV 22	10 45 33						1,5N 125,6E
NOV 22	11 51 10.5						13,1N 122,6E
NOV 22	16 02 33.2		I 02 34	I 02 41	SKP 05 26	1.3	23,6S 180,0W
NOV 23	C5 33 30.C					1.2	40,1N 142,4E
NOV 24	21 32 16.8C	41 40	*PP 32 29	PP 34 55	PKPPK 00 14	2.5	40,3N 142,3E
NOV 25	C6 18 45.6						AEGEAN SEA
NOV 25	17 11 16.5						28,4N 138,4E
NOV 25	18 50 12						15,9N 92,4W
NOV 25	18 50 26	01 46	PP 54 38				5,0N 126,9E
NOV 26	C5 58 00.8		I 58 04	I 03 25			45,7N 28,1E
NOV 27	12 31 42						52,6N 170,6W
NOV 27	12 06 13.4C						56,6N 157,6W
NOV 28	C7 11 26.5C		*PP 11 40	I 11 50		1.8	40,1N 142,3E
NOV 28	08 15 52						16,4N 122,1E
NOV 28	10 48 37.4C	59 04	*PP 48 48			1.7	15,4N 94,6W
NOV 28	16 45 03.8C		*PPKP 49 46	PKKP 55 13			6,8S 156,2E
NOV 28	22 18 47.2						16,9N 94,5W
NOV 29	17 25 20.6						40,1N 142,3E
NOV 30	18 24 35.1						36,7N 71,3E
DEC 1	01 15 13.4						10,6S 74,9W
DEC 1	13 28 26.2		I 28 43				24,8S 179,6E
DEC 1	23 14 20.2C						
DEC 2	C2 45 27.5		I 45 33			2.3	13,5S 23,8E
DEC 2	12		E 59 43	SG 00 28			
DEC 2	13 48 10.9						51,9N 175,1E
DEC 3	21 01 34.3						44,6N 18,4E
DEC 3	21 17 31.CC		*PP 17 42			1.5	43,4N 147,2E
DEC 4	18 45 05.4		I 49 09				36,4N 27,1E
DEC 4	15 42 57.2		I 43 01				36,5N 27,1E
DEC 5	C7 57 47.6C	02 23	I 57 55			2.2	36,6N 27,0E
DEC 5	C9 47 47.9	50 16	I 47 54				63,9N 21,7W
DEC 5	13 10 04.8C		PCP 10 26			1.6	42,1N 142,8E
DEC 5	23 12 33						
DEC 7	05	23 42	E 16 40	PS 27 02			3,4S 145,8E
DEC 7	06 06 06						24,0N 122,5E
DEC 7	15 51 49.1					1.9	51,6N 175,7E
DEC 7	15 57 33.4					1.5	51,6N 175,8E
DEC 7	16 03 57						51,5N 175,6E
DEC 7	16 07 05.C						51,4N 175,6E
DEC 7	16 11 17						51,6N 175,7E
DEC 7	17 28 56.6		PKS 32 15				14,0S 166,8E
DEC 7	20 54 24.8C						45,0S 80,3W
DEC 7	21 54 45		I 55 03	SKP 58 29			20,7S 169,4E
DEC 7	23 05 14						27,2S 177,0W
DEC 8	C9 20 30.2C					1.5	27,4N 128,3E
DEC 8	C5 50 34.2					1.1	52,6N 159,0E
DEC 8	15 55 54.8						41,6N 75,1E
DEC 8	16 54 51						35,4N 139,0E
DEC 8	18 44 36.1						36,5N 71,0E
DEC 10	C5 00 49.7C						40,7N 145,4E
DEC 10	C7 55 33.5						39,7N 143,4E
DEC 10	11 33 38.8		I 33 45				38,9N 21,6E

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1968	F/FKP	S/SKS	SUFF. 1	SUFF. 2	SUFF. 3	LOG	REMARKS
MTH DY HR	M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T	
DEC 11	11 57 10.C		*PP 57 20				33,6N 134,0E
DEC 11	20 21 40.5C						52,0N 179,5E
DEC 11	21 53 29						23,9S 176,1W
DEC 12	C5 38 38.1						9,7N 125,7E
DEC 12	C7 38 15		I 38 18				16,0S 177,8W
DEC 12	16 13 05	23 37					16,4N 122,2E
DEC 12	19 01 54.1					1.2	35,8N 53,5E
DEC 14	10 09 54.2	18 56					51,5N 175,7E
DEC 15	C2 25 08.8C	34 08	I 25 11				51,6N 175,8E
DEC 15	C2 35 23.0		I 35 35				51,7N 175,8E
DEC 15	14 12 26.5						49,6N 155,7E
DEC 15	21 45 35.7						13,5S 26,7E
DEC 16	11 05 59.1						18,0S 168,1E
DEC 16	11 45 35.5		SKP 48 31			1.4	24,2S 179,0E
DEC 16	21 34 22.C						39,8N 143,6E
DEC 17	12 12 02.5	20 06	I 12 07	PKPPK 41 47		1.9	60,2N 152,8W
DEC 17	22 27 48.8					1.5	39,6N 143,5E
DEC 18	C5 05 18.3C						45,7N 78,1E
DEC 18	15 51 54						40,9N 142,9E
DEC 18	20 22 15.1		SKP 25 27				19,9S 177,6W
DEC 19	C5 25 47.5C	32 13	I 25 56	*PP 26 22	SS 35 40	2.6	36,1N 70,1E
DEC 19	15 26 23.0C	34 58				2.0	53,3N 160,1E
DEC 19	16 41 31.CC		I 41 40			2.2	37,2N 116,5W
DEC 20	23 45 49.CC						36,4N 71,0E
DEC 22	C5 16 37.C						36,2N 101,9E
DEC 22	16 55 04.9C		*PP 55 13			1.5	56,3N 153,8W
DEC 23	C4 16 01						56,4N 153,7W
DEC 23	23 27 50.CC						36,4N 70,6E
DEC 24	C0 44 00						
DEC 25	C4 07 51.7						41,7N 142,8E
DEC 25	12 23 01.CC						35,1N 24,3E
DEC 25	15		PG 31 46	SG 32 37			68,0N 21,6E
DEC 25	15		I 16 31				30,2S 177,9W
DEC 25	23 00 59.6		I 01 10				30,7S 178,1W
DEC 27	10 26 35.5C					1.4	25,5S 177,8W
DEC 27	14 48 45.3		*PP 48 55				24,1N 91,6E
DEC 28	C4 25 21.C						63,0N 148,2W
DEC 29	02 15 12		I 15 16				29,9S 178,2W
DEC 29	C7 28 38	39 18					13,6N 120,6E
DEC 29	C8		E 08 53				32,0S 178,3W
DEC 29	17 48 54.5	59 22					14,5N 92,4W
DEC 29	15 02 20						14,8N 93,9W
DEC 30	C7 13 22.1C		*PP 13 32	PKPPK 42 43			57,6N 151,4W
DEC 30	10 30 45.7	23 33	I 30 51	I 30 57			76,2N 7,5E

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1969	P/PKP		S/SKS		SUPP. 1		SUPP. 2		SUPP. 3		LOG	REMARKS
MTH DY	HR	M	S	M	S	PHASE	M	S	PHASE	M	S	
JAN 1	09	18	00.4	D								51,2N 179,4W
JAN 1	21	46	56.3									36,4N 23,0E
JAN 2	14	17	24.8	D							1.4	53,9N 160,6E
JAN 2	15	23	23									35,5N 28,4E
JAN 2	18	18	13.1								1.4	42,0N 142,4E
JAN 3	03	23	58.0			I 24 00		PN 25 08				37,1N 57,9E
JAN 4	16	17	05.8									57,9N 153,9W
JAN 5	13	15	43.0	C							1.6	48,4N 146,1E
JAN 5	13	45	30			*PPKP 45 48		PP 47 05			2.0	8,0S 158,9E
JAN 6	05	58	00									53,8N 163,5W
JAN 6	15					I 50 01		I 50 04				30,2S 178,0W
JAN 6	15	58	00.9			I 58 04		PP 00 00		PS 09 44	2.0	10,5S 164,5E
JAN 6	21					I 09 50						30,2S 178,2W
JAN 6	22	07	27									44,1N 10,7E
JAN 7	00	55	54.4									38,5N 20,1E
JAN 7	04	59	32			*PPKP 59 45						16,0S 167,5E
JAN 7	07	13	58.1	C								26,1N 129,5E
JAN 7	22	07	43.1			*PP 07 55						51,6N 159,5E
JAN 8	23	53	20.9	C								44,8N 37,0E
JAN 9	07	53	02.2	C								38,2N 74,0E
JAN 9	19	11	32.0								1.6	25,2S 178,4E
JAN 9	21	44	21									41,4N 140,3E
JAN 10	03	32	51			*PP 33 01						29,0N 130,7E
JAN 10	04	37	01.8			*PP 37 11						39,4N 20,3E
JAN 10	06	07	45.8	C								
JAN 10	11	30	17									IRAN-IRAQ
JAN 10	16	21	27									44,6N 12,0E
JAN 10	16	38	27			I 38 31						41,6N 32,6E
JAN 10	23	23	48									32,5N 48,7E
JAN 11	04	46	01.5	C		I 46 04		*PPKP 46 12			1.8	28,4S 177,0W
JAN 11	05	07	18.1	D							1.7	28,5S 176,8W
JAN 11	05	22	24									28,5S 176,7W
JAN 13	03					I 13 06		I 13 11				30,5S 177,8W
JAN 13	05	50	04.9									13,7N 120,6E
JAN 13	05	51	50.1	C							2.0	38,3N 22,6E
JAN 13	05	55	33.2									34,7N 25,2E
JAN 13	08	02	53.1									37,5N 141,5E
JAN 14	16	13	30.7	C		I 13 34					1.6	36,2N 29,2E
JAN 14	23	17	51.8		22 30	I 17 53		I 17 59		PP 18 51		45,6N 26,4E
JAN 15	08	50	30.9			I 50 32					2.0	27,6N 129,2E
JAN 16	15	32	41.2	D								40,1N 142,3E
JAN 16	15	46	34.7			*PP 46 48						56,8S 26,8W
JAN 18	03	21	13.9	C								38,3N 69,7E
JAN 21	14	45	06.8									73,7N 13,7E
JAN 21	21	13	06									
JAN 21	23	22	25.0	D							1.3	55,9N 163,0E
JAN 22	00	52	43.6	C		E 53 34					2.0	55,9N 163,0E
JAN 22	03	27	47.0	D								55,9N 163,0E
JAN 22	04	04	45									55,9N 163,1E
JAN 22	04	24	11									35,7N 70,0E
JAN 22	17	25	26.7									49,4N 155,5E
JAN 22	19	50	53.1	D								32,2N 70,0E
JAN 23	02	10	57.0	C								29,1N 139,2E
JAN 24	02	51	18.9	C		SKP 54 07		SKKP 02 38		SP 04 17	2.2	21,9S 179,6W
JAN 25	05	33	07.9	C	43 48							0,8N 126,1E
JAN 25	12	20	27.1									55,9N 162,9E
JAN 25	21	03	14			I 03 22						22,9N 92,3E
JAN 25	23	45	12			*PP 45 22						36,8N 54,5E
JAN 26	02	32	58			PN 34 03						6,6N 127,4E
JAN 26	06	19	32			*PP 19 45						

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1969 MTH DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
JAN 26	10	07 10.9C		*PP 07 43				38,2N 73,8E
JAN 26	14	31 46						35,6N 6,0E
JAN 26	15	15 48.8C		*PP 16 00	PCP 16 39			55,8N 162,9E
JAN 26	15	28 59.1						55,9N 163,0E
JAN 26	15	51 42.4						25,1N 122,6E
JAN 26	15	54 39						56,3N 162,2E
JAN 26	15	59 13.9						55,9N 152,9E
JAN 26	16	36 29.1						55,9N 162,9E
JAN 26	16	55 28.8D					1.4	56,0N 163,1E
JAN 26	16	59 08.1					1.3	55,9N 163,0E
JAN 27	03	14 14.8					1.5	30,6S 177,2W
JAN 27	03			I 29 04				30,6S 177,2W
JAN 27	06	44 34.2	50 02	I 44 38	*PP 44 42		1.3	80,8N 121,9E
JAN 27	10	20 18.6D		I 20 24			2.0	30,9S 179,7W
JAN 27	11	07 32.0D					1.3	37,3N 71,5E
JAN 27	13	29 09	40 02	PP 33 20	PS 42 12			8,8N 137,7E
JAN 27	14	52 33.9						12,5N 144,4E
JAN 27	18	43 16.3C					1.2	13,2S 166,9E
JAN 27	18	48 18.9					1.4	43,7N 140,7E
JAN 28	05	49 37.2						43,9N 145,9E
JAN 28	10	06 48.1						29,9N 140,4E
JAN 29	05	29 22.7						56,0N 163,1E
JAN 29	05	30 22.4						KAMCHATKA
JAN 29	18	03 50.0C					1.4	17,2S 171,6W
JAN 29	19	49 13.5C						11,4S 166,4E
JAN 30	02	47 06						4,1N 126,4E
JAN 30	10	43 12.1	53 44	*PP 43 22	I 43 45	PP 47 18		4,8N 127,4E
JAN 30	21	05 27.4C					1.4	42,8N 145,3E
JAN 31	00	57 52	08 38	PP 01 58				4,2N 128,1E
JAN 31	04	20 38.1D					2.0	53,5N 158,7E
JAN 31	14	45 57						34,3N 26,3E
JAN 31	15	18 22.0C						15,5S 175,0W
JAN 31	15	50 02.2						39,7N 143,9E
JAN 31	22	36 16.0D						27,0N 140,5E
JAN 31	23	50 15.2		I 50 21			2.4	32,1S 179,6E
FEB 1	20	13 54						7,2N 34,0W
FEB 2	01	52 24.2C	03 08	PP 56 42	S 03 40			3,9N 128,2E
FEB 3	08	09 49.2D		I 09 52	SKP 12 30		2.2	25,8S 178,1E
FEB 3	08	20 41.8C						
FEB 3	08	32 09.1D					2.0	
FEB 3	08	36 36.8D		SKP 39 17			2.6	25,7S 178,3E
FEB 3	09	07 53					2.2	49,4N 155,6E
FEB 3	21	55 17.2C	05 52	I 55 22	PP 59 17			4,9N 127,4E
FEB 4	02		02 48					0,6S 121,7E
FEB 4	04		34 30	I 24 01				8,2S 80,2W
FEB 5	09	25 58.9						34,5N 24,7E
FEB 5	10	03 01.1						26,5N 141,8E
FEB 5	23	56 18.0					1.4	0,7N 29,7W
FEB 6	04	41 39.4						42,3N 142,3E
FEB 6	07	45 53.9						21,8N 145,7E
FEB 6	08	46 58.0D		*PP 47 03			1.5	42,4N 142,4E
FEB 6	13	07 48.8						ITALY
FEB 6	14	52 30.4						55,2N 160,4W
FEB 7	01	10 14.7						32,6N 48,1E
FEB 7	21	37 14.8						40,4N 124,5W
FEB 7	22	26 12.8	27 25	I 27 40				67,5N 11,8E
FEB 8	23	31 12.1D						29,9N 51,0E
FEB 9	15			*PP 46 15				21,7N 101,3E
FEB 9	23	11 45.9						47,7N 18,1E
FEB 10	14	33 27.8						2,7N 125,3E

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1969 MTH DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
FEB 10	21	59 02.8					1.5	44,2N 148,5E
FEB 10	22	16 16.8					2.6	22,7S 178,6E
FEB 11	22	17 06.0C	23 49	SKP 18 58	PP 19 30	SKKP 27 28	2.2	41,4N 79,2E
FEB 11	22	29 48		I 17 12	PP 18 51	SS 26 58		6,7S 126,8E
FEB 12	00	30 49.7		I 30 52				41,2N 79,3E
FEB 12	08	48 14.5C					1.4	TURKEY
FEB 12	15	50 07.2C					1.4	55,9N 162,9E
FEB 13	01	46 46.9C		*PP 46 59				52,2N 169,9W
FEB 13	10	22 40.9C		I 22 43				30,1S 178,0W
FEB 13	11	20 20.2		*PP 20 29	I 20 41			25,0N 62,9E
FEB 13	15	15 20						34,7N 22,6E
FEB 13	21	41 02.7						
FEB 13	23	47 55.2						28,0N 139,7E
FEB 14	13	23 13.7						16,6N 99,1W
FEB 14	13							39,3N 143,0E
FEB 15	09			SKP 04 55				24,1S 180,0W
FEB 15	14	07 58.8C		I 08 00			1.5	13,6S 167,2E
FEB 15	15	21 32.7					1.8	26,0S 178,1E
FEB 16	00	07 22.2		I 07 32	I 07 36			41,5N 79,5E
FEB 16	16	39 40.7						CRETE
FEB 17	00	56 43.2C	07 26	PP 00 48				3,8N 128,4E
FEB 17	07	09 43.7					1.3	46,8N 152,5E
FEB 17	07	40 32.8C		*PP 40 54				37,5N 140,7E
FEB 17	09	17 40.0						33,9N 25,2E
FEB 18	05	34 14.8						24,0S 176,7W
FEB 18	20	00 07.7						29,7N 68,4E
FEB 18	21	14 09.8						24,5N 95,4E
FEB 20	10	09 16.1	20 02	PP 13 24				3,5N 128,2E
FEB 20	10	43 58.7C					1.7	3,5N 128,4E
FEB 20	17	11 57	22 40	*PP 12 07				3,7N 128,2E
FEB 21	18	44 59.0C		I 45 04				39,2N 22,0E
FEB 22	18	30 15.9		I 30 22				24,8S 177,0W
FEB 23	00	50 50	01 32	PP 55 02	S 02 30			3,1S 118,9E
FEB 23	11	18 16.6		PG 18 23	I 18 38	SG 18 52		62,0N 6,3E
FEB 24	00	23 12	35 11					6,2S 131,0E
FEB 24	22	56 13.9		I 56 21			1.5	6,9N 72,9W
FEB 25	01	48 29.8D					1.2	5,2N 126,3E
FEB 25	02	13 59.1C		I 14 03				15,3N 87,5W
FEB 25	04	10 57.7					1.5	32,3S 180,0E
FEB 25	07	51 15.2	01 40	I 51 19			1.5	15,2N 87,5W
FEB 25	13	49 00						41,6N 32,3E
FEB 25	14	18 19						19,3S 12,1W
FEB 25	15	01 27					1.4	15,0S 167,4E
FEB 25	16	42 47						53,9N 161,3E
FEB 26	01	31 01						48,4N 9,1E
FEB 26	12	41 25						36,6N 27,2E
FEB 28	02	46 27.9C						36,0N 10,6W
FEB 28	03	18 46.1						
FEB 28	04	31 29.2C						36,2N 10,5W
FEB 28	13	57 44.6C					1.2	51,7N 158,0E
MAR 1	02	13 53						39,7N 143,0E
MAR 1	10	49 03		*PP 49 14				46,8N 153,6E
MAR 1	11	00 07						47,0N 153,7E
MAR 1	15	08 31.9						41,4N 79,4E
MAR 2	05	01 14.2						1,5N 128,1E
MAR 2	06	34 28.7		SN 35 05	SG 35 15			SOUTH NORWAY
MAR 2	22	36 00						12,9N 120,8E
MAR 3	01	04 20.0C	08 34	I 04 31	PCP 08 07		2.3	40,1N 27,4E
MAR 3	06	29 46.0C					1.3	30,2N 79,9E
MAR 3	14	11 47.0		*PP 11 55				31,0N 71,8E

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1969 MTH	DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
MAR 3	15	00	08.0C	08 47	*PP 00 20			2.1	51,6N 159,3E
MAR 4	01	53	00.4C		I 53 05	PCP 56 18			37,0N 31,1E
MAR 4	06	41	50.2D						23,8S 179,1E
MAR 4	18	12	54.5						45,3N 151,1E
MAR 5	14	05	44.1	16 28	PP 10 00				4,0N 128,2E
MAR 5	14	46	22.1		I 46 38				40,0N 27,5E
MAR 5	19	41	13.9C	47 34	*PP 42 01	*SP 42 22	PP 43 09	2.4	36,4N 70,7E
MAR 5	22	44	05						71,1N 5,6W
MAR 6	07	15	05.8						51,4N 159,4E
MAR 6	19	29	38						36,0N 10,6W
MAR 7	08	34	18.0C					2.0	49,8N 78,2E
MAR 7	15				PG 15 44	SG 16 30			58,2N 13,8E
MAR 7	21	33	44		PG 33 49	SG 34 17	I 34 19		60,3N 15,0E
MAR 8	10	31	02.1C		*PP 31 48			1.9	41,3N 139,6E
MAR 9	11	45	37.2D					1.5	48,1N 148,3E
MAR 9	14			14 45	PS 16 30				4,1S 135,5E
MAR 9	14	38	24.9		I 38 38				31,2N 141,6E
MAR 10	07	12	36		I 12 38			1.7	5,6S 147,2E
MAR 10	16	04	18.9C						36,5N 140,6E
MAR 10	18	58	49.2C		I 58 55				37,1N 71,5E
MAR 10	19	11	55.5C					2.1	36,4N 71,0E
MAR 11	08	06	29.4						25,7N 123,8E
MAR 11	15	45	29						31,1N 141,8E
MAR 12	10	56	45						31,3N 141,7E
MAR 12	13	59	24.0		*PP 59 33				
MAR 12	17	51	34.8						28,3N 53,1E
MAR 12	20	36	05						31,3N 141,7E
MAR 13	02	30	52						38,5N 25,8E
MAR 13	18	52	57.9						63,5N 129,0W
MAR 14	08	59	20.1C	09 24	*PP 00 05	PP 02 26	PKKP 17 44		12,9N 86,8W
MAR 15	03	13	07.1		I 13 09				42,9N 144,9E
MAR 15	04	31	08.1C						50,8N 150,1E
MAR 15	08	32	09.0C						42,4N 49,0E
MAR 15	13	46	30.0C		*PP 46 41			1.2	51,2N 179,1W
MAR 16	14	21	07.9						9,8N 57,8E
MAR 16	16	05	45.4C	15 14	*PP 06 01			1.7	38,5N 142,7E
MAR 16	16	09	07.9		*PP 09 22			1.5	38,5N 142,6E
MAR 16	17	08	24						41,0N 143,1E
MAR 18	05	20	09						47,1N 153,9E
MAR 18	16	27	49.9D		*PP 28 02	I 28 13		2.2	44,1N 151,0E
MAR 18	22	54	55						24,0S 176,0W
MAR 18	23	05	07.0C						30,2N 131,2E
MAR 18	23	41	13.6					1.2	50,7N 156,7E
MAR 19	14	11	01.2	20 39	I 11 03	*PP 11 42	PCP 11 12		28,8N 128,2E
MAR 19	16	19	33						14,0N 123,9E
MAR 19	18	30	09.0C		I 30 32			1.4	44,1N 151,0E
MAR 20	08	29	39.2	39 40				1.4	31,3N 114,3W
MAR 20	13	42	30.1C					1.4	29,8N 138,6E
MAR 20	16	32	14.6D	42 50	I 32 19	S 43 30		2.0	8,7N 127,3E
MAR 20	18	26	58.9C		I 27 17				51,6N 174,9W
MAR 21	03	16	32.8C	25 58	*PP 16 42	I 16 47		1.8	40,3N 143,7E
MAR 21	04	05	38.3						31,2N 114,3W
MAR 21	05	08	16.7C		I 08 19			1.7	31,2N 114,2W
MAR 21	06	46	23						31,1N 114,3W
MAR 21	06	53	26.8D					1.2	43,4N 145,0E
MAR 21	07	33	07.9						31,3N 114,2W
MAR 21	08	50	48.9						31,1N 114,2W
MAR 21	12	16	03.2						49,6N 155,6E
MAR 21	16	09	42.1						31,2N 114,3W
MAR 22	04	21	35.6						

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1969 MTH	DY	HR	P/PKP M S	S/SKS M S	SUPP. 1 PHASE M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T	REMARKS
MAR 22	05	00	28.5D						
MAR 22	13	47	15.3C		PP 02 07			1.6	38,9N 70,6E
MAR 22	18	06	12					1.6	43,4N 147,4E
MAR 23	02	26	22.8						39,1N 28,6E
MAR 23	12	02	05.9						24,8S 179,8E
MAR 23	21	14	03.1	18 25				2.2	39,2N 28,5E
MAR 24	02	04	51.9C	09 16				1.7	39,1N 28,5E
MAR 24	08	18	24						39,1N 28,5E
MAR 24	11	39	51						39,2N 28,6E
MAR 24	12	01	24.1		I 01 26				27,5N 33,8E
MAR 24	12	18	38						39,1N 28,7E
MAR 24	12	57	57.5C					1.3	27,6N 33,8E
MAR 24	15	12	30.1						24,3N 123,7E
MAR 25	02	37	07.2C						31,6N 141,6E
MAR 25	04	27	26	28 39					67,8N 11,2E
MAR 25	07	29	06						30,2S 177,3W
MAR 25	13	26	30.1D						39,0N 28,5E
MAR 25	13	26	50.0D		I 26 57			2.5	39,2N 28,4E
MAR 25	14	24	08.2		I 24 13				39,2N 28,4E
MAR 25	16	18	47.2						39,1N 28,3E
MAR 26	03	36	43						39,1N 28,4E
MAR 26	12	09	12						CASPIAN SEA
MAR 26	15	40	18						16,2N 122,2E
MAR 26	17				I 49 58				33,1S 178,9W
MAR 27	06	22	37.2					1.1	27,5N 33,9E
MAR 27	06	22	58.0		I 23 09				31,0N 141,6E
MAR 27	08	35	38						19,5N 144,6E
MAR 27	11	27	25.5						39,0N 71,9E
MAR 27	12	55	11.1C	06 02	PP 59 23				4,8N 127,5E
MAR 27	18	12	18						39,1N 28,5E
MAR 27	19	45	40.1						39,0N 71,8E
MAR 28	01	53	54.2	58 20	I 53 58				38,6N 28,4E
MAR 28	03	18	56.2		*PP 19 17				33,3N 140,3E
MAR 28	05	45	40.9						38,2N 29,0E
MAR 28	09	36	45.9						22,6N 142,9E
MAR 28	10	07	34.1		I 07 38				39,1N 28,4E
MAR 28	12	40	35						
MAR 29	01	48	00.8D		I 48 03			1.6	40,0N 15,2E
MAR 29	09	25	14.2	32 56	SCS 35 08			2.3	12,0N 41,2E
MAR 29	11	14	13.8C	21 54	I 14 16				12,0N 41,3E
MAR 29	11	16	50.9C		I 16 56				12,0N 41,2E
MAR 29	13	17	37.2C					1.4	11,9N 41,5E
MAR 29	13	59	06.9		*PP 59 15				10,4N 56,8E
MAR 31	07	22	59.0C	28 51	I 23 02	I 27 49		2.7	27,7N 34,0E
MAR 31	09	08	15.8						28,4N 34,4E
MAR 31	11	37	08.2						27,6N 34,2E
MAR 31	19	36	00.0C	44 44	I 36 03	*PP 37 32	PKPPK 03 59	2.7	38,3N 134,6E
MAR 31	21	51	39.0C						27,5N 34,0E
MAR 31	22	47	55.2C		I 48 01				27,4N 34,1E
APR 1	04	13	58.9						ICELAND
APR 1	05	56	59.8						HINDU KASH
APR 1	16	45	02.3						30,0N 67,4E
APR 1	20				I 59 14				56,6N 163,8E
APR 2	01	42	26.8					1.9	39,0N 15,3E
APR 2	05	02	41.0						38,0N 20,2E
APR 3	00	11	17.3						37,1N 71,8E
APR 3	09				I 26 30				30,9S 179,8W
APR 3	22	17	07.3D	20 52	I 17 25			2.1	40,7N 19,9E
APR 3	23	49	56						40,6N 19,9E
APR 4	04	25	32						40,6N 19,8E

