

UNIVERSITETET I BERGEN
JORDSKJELVSTASJONEN
(Seismological Observatory)

Seismological Bulletin
Tromsø, Norway
1966—1967

By
EIRIK SUNDVOR and ANDERS SØRNES

BERGEN — NORWAY 1969

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Tromsø (TRO), Norway.

Latitude: 69° 37' 57" N
 Longitude: 18° 55' 41" E
 Elevation: 28 meters
 Foundation: Gneiss

The seismological station at Tromsø has been in normal operation since September 17 1960. The US Coast & Geodetic Survey has supplied the seismometers and the recorder. The station is operated by cooperation between Tromsø Museum and the University of Bergen.

The instrumentation comprises a three-component (Z, NS and EW) short period Benioff system with 35 mm film recorder. The free period of the seismometers is 1 sec and of the galvanometer 0.2 sec. The magnification at 1 cps is kept about 50000. Damping ratio: 17/1. The drum speed is 15 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, $\log \left(\frac{A}{T} \right)$, is given when it is 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 the cards sent us from the Centre in Edinburgh. Only capital letters are used on the print-out and pP for example is therefore printed as *PP. For 1967 onwards some columns on the punched cards have been used for remarks. Usually the remark gives 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 epicenters worked out at Bergen.

TROMSØ (TRO) SEISMIC STATION BULLETIN - 1966													PAGE
1966	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	PHASE	A/T		
JAN 02	04	DI15	18.4										
JAN 02	11	DI57	35.7										
JAN 03	16	CI03	16.9										
JAN 05	07	I11	53.9										
JAN 05	17	I32	56.6			PCP	33 16		I	33 22			
JAN 05	18	I22	16.3			*PP	22 27						
JAN 07	07	CI54	47.8										
JAN 09	00	I28	31.6										
JAN 09	09	CI23	04.2										
JAN 10	01	DI13	13.7										
JAN 13	10	DI50	42.2			I	51 09						
JAN 16	07	DI19	43.7										
JAN 16	18	E59	07										
JAN 17	18	I08	06.8										
JAN 17	19	DI06	08.1										
JAN 18	20	E25	36										
JAN 20	16	DI42	13.9										
JAN 22	11	CI19	02.8										
JAN 22	13	I14	22.9			I	15 19						
JAN 22	14	DI36	34.6										
JAN 24	07	E31	56										
JAN 25	00			58 44									
JAN 27	19	CI48	59.8			I	49 17						
JAN 28	04	I54	45.7										
JAN 28	06	I01	14.8										
JAN 28	08	I59	48.6										
JAN 28	22	DI47	36.1			I	48 09						
JAN 29	08	DI02	12.1			*PP	02 25						
JAN 29	13					I	59 27						
JAN 30	07	CI26	49.3	27 49		T	32 17		I	59 44			
FEB 01	06	E05	31										
FEB 02	07	CI29	32.2			I	29 36						
FEB 03	06	CI01	13.4			I	01 25						
FEB 03	12	DI10	29.4										
FEB 04	10	I57	46.3										
FEB 05	02	DI07	59.3	13 06		I	18 42		I	19 09			
FEB 05	03	DI04	11.6										
FEB 05	15	DI23	01.9										
FEB 05	16	CI25	32.8			I	25 41		PCP	26 29			
FEB 06	04	DI24	41.7										
FEB 07	04	I34	59.1			PCP	36 17		PPP	37 33			
FEB 07	05	CI30	32.1										
FEB 07	05	DI39	01.2										
FEB 07	23	CI15	21.4			PPP	18 05						
FEB 10	05	E40	32										
FEB 10	12	I48	14.3										
FEB 10	14	DI33	30.0			*PP	33 48						
FEB 10	20	CI23	12.5			PCP	23 56						
FEB 13	05	CI04	43.3			PP	05 58		PCP	07 26			
FEB 13	10	DI50	02.4			I	50 08						
FEB 13	10	CI55	10.9			*PP	55 22						
FEB 14	18	CI04	38.5										
FEB 15	22	E52	17			PP	54 54						
FEB 16	03	DI37	23.9			I	37 36						
FEB 16	12	E08	05										
FEB 18	00	CI38	33.3										
FEB 18	19	CI12	29.9			PP	14 41						
FEB 19	12	E58	49										
FEB 19	13			42 18		SG	42 37						
FEB 20	05	I10	32.5			PCP	11 34						

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1966	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 17	23	103 41.4					
JUN 19	00	116 53.0					
JUN 19	18		E 01 59				
JUN 19	19	D138 34.1	I 38 36				
JUN 20	01	D134 06.6					
JUN 20	04	D141 43.2					
JUN 20	13	C152 06.0					
JUN 21	04	D101 55.4					
JUN 21	15	D157 50.7	I 57 53				
JUN 21	23	116 09.1					
JUN 22	00		I 51 59				
JUN 22	02	D108 51.9					
JUN 22	11	D106 47.3	07 44 P* 06 57	S* 08 02	T 11 25		
JUN 22	11	I 47 36.5	*PP 47 48				
JUN 22	19	100 27.1					
JUN 22	20	D142 01.8	52 05 I 42 09	*PP 44 03	*PPP 48 18	1.8	
JUN 23	05	D111 19.1	I 11 22	PCP 12 06	PP 13 32		
JUN 23	05	C149 35.7					
JUN 23	22	I 02 26.6	*PP 02 45				
JUN 24	06	D126 02.9					
JUN 24	08	C136 52.3					
JUN 24	22	I 140 40.0					
JUN 25	01	C157 35.6	I 57 40	PCP 57 50		1.4	
JUN 25	11	C159 53.8					
JUN 25	17	I 136 59.3					
JUN 25	21	D141 45.8				1.2	
JUN 27	10	D135 18.0	I 35 23				
JUN 27	10	C150 21.4	PP 52 13	PPP 53 00			
JUN 27	10	C156 59.0	I 57 04	PP 58 54			
JUN 27	10	D159 01.2					
JUN 27	11	I 108 30.8					
JUN 27	11	D130 57.3					
JUN 27	11	C133 22.5					
JUN 27	11	D140 05.3					
JUN 27	14	I 105 06.1					
JUN 27	15	C100 01.3	00 47 P* 00 11	S* 00 57	SG 01 08	1.6	
JUN 27	22	C106 35.9	I 06 45	PP 10 04			
JUN 28	01	I 118 16.1					
JUN 28	04		I 37 36				
JUN 28	16	C158 55.1					
JUN 29	00	C151 25.1					
JUN 29	07	D104 42.7	PCP 07 00				
JUN 29	20	D104 42.0					
JUN 29	22	C105 41.9					
JUN 29	23	E01 46					
JUN 30	02		I 04 46				
JUN 30	09	D108 50.8	PCP 09 38				
JUN 30	12	I 140 24.0	*PP 40 36				
JUN 30	15	I 156 44.8					
JUN 30	20		PG 37 45	SG 38 34			
JUN 30	20		I 43 01				
JUN 30	22	C126 03.2	I 26 13	PCP 26 26	I 27 01	2.1	
JUL 01	05	E03 23					
JUL 01	06	C101 47.8	11 02 I 01 49	PP 04 29	PPP 06 18	1.4	
JUL 01	14		PG 58 16	SG 59 04			
JUL 01	17	E36 18					
JUL 01	19	D115 07.6					
JUL 01	20	C129 54.0					
JUL 02	11		I 32 41				
JUL 03	04	C105 02.0	PCP 05 53			1.3	

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1966	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	
JUL 04	02	C135 47.4					
JUL 04	03	C105 24.4					
JUL 04	03	I 124 16.4				2.0	
JUL 04	12	C122 59.0					
JUL 04	18	C143 29.4	51 42	I 43 32			
JUL 04	19	D100 17.2					
JUL 04	22	E24 06				1.4	
JUL 05	02	C131 30.0					
JUL 05	03	C141 14.2	I 90 36	P 90 41	P 90 44		
JUL 05	05	I 116 36.0					
JUL 05	20	D146 55.8					
JUL 06	14	I 106 54.8					
JUL 06	20	C133 08.8					
JUL 06	20	D148 43.0	49 18	S* 49 25			
JUL 06	23	D114 46.8					
JUL 07	22	E19 54					
JUL 08	03	I 159 39.2					
JUL 08	07	E30 44					
JUL 08	14					I 23 16	
JUL 09	08	E11 09					
JUL 09	09	E44 30					
JUL 09	14	E32 46					
JUL 09	19	C130 32.3					
JUL 10	02					PP 11 08	
JUL 10	10	I 120 01.7					
JUL 10	16	C124 08.3				*PP 24 19	
JUL 10	22	E15 44				1.8	
JUL 11	21	C138 47.8	39 31	P* 38 54	S* 39 40		
JUL 12	03	D103 09.8					
JUL 12	14	C112 16.4					
JUL 12	17	I 156 19.4					
JUL 12	18	C158 47.4	63 25	I 58 50		1.9	
JUL 13	00	C157 02.2					
JUL 13	06	D106 53.4					
JUL 13	07	D105 07.6				PP 07 44	
JUL 13	12	E14 42					
JUL 13	15					I 04 42	
JUL 14	06	D129 32.8					
JUL 14	10	D108 03.2				I 08 09	
JUL 14	14	I 147 37.6	48 30	SG 48 51			
JUL 14	18	C116 39.8				I 16 43	PCP 17 28
JUL 15	04	I 130 06.4	30 57			1.6	
JUL 15	08	C111 10.4				I 11 22	
JUL 15	10	I 145 54.0					
JUL 15	20	I 139 18.8					
JUL 16	07	C138 33.6					
JUL 16	19	I 151 04.6					
JUL 17	02	C143 07.6					
JUL 17	22	C159 39.0	61 13				
JUL 18	04	C149 53.4				*PP 50 12	
JUL 18	10	C109 23.6					1.2
JUL 18	11	I 114 26.8					
JUL 19	01	C150 03.3				I 50 10	
JUL 19	03	I 136 44.1					
JUL 19	19	C130 26.6				*PP 30 40	
JUL 19	21	I 128 34.4					
JUL 21	04	D104 43.8				PP 06 06	
JUL 21	09	D112 21.2					
JUL 21	10	I 112 42.2					1.2
JUL 21	12					E 12 56	
JUL 21	12					E 22 49	

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1966	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG						
MTH DY	HR	M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T	REMARKS				
JUL 21	13			E 45 46								
JUL 21	18	E48 13		SKP 50 36								
JUL 22	03	I47 50.0		I 48 15	PP 49 28							
JUL 22	08	E44 28		*PPK 45 20								
JUL 22	10	I27 15.6		PCP 27 58								
JUL 23	03	D147 50.4		I 47 59			1.3					
JUL 23	08	I36 04.4		*PP 36 13								
JUL 23	14	D141 44.0		I 41 59	PCP 42 33		1.6					
JUL 23	20	D121 54.2		*PP 22 06								
JUL 24	11	E08 43										
JUL 24	17	I37 13.1										
JUL 25	09	I28 30.3		I 28 44								
JUL 25	11	C153 07.1										
JUL 25	13	E28 41		I 28 47								
JUL 26	12	C156 58.0										
JUL 26	13	I00 12.8										
JUL 26	15	D123 22.4										
JUL 26	22	C158 52.1		I 58 54								
JUL 27	07	D126 31.6					1.3					
JUL 27	09			I 04 23								
JUL 27	14	C156 40.8		I 56 44	I 57 06							
JUL 28	12	C127 12.4										
JUL 29	02			I 23 48								
JUL 29	07	D118 12.8										
JUL 29	08	I29 03.8										
JUL 30	17	C152 03.8										
JUL 31	03	I34 24.0										
JUL 31	04	I56 04.6		I 56 28								
AUG 01	12	D101 55.2					1.5					
AUG 01	19	C118 37.2		*PP 18 44	PCP 19 54	PP 20 24	1.8					
AUG 01	20	I04 22.6										
AUG 01	20	D139 38.0		*PP 39 44	PCP 40 56		2.0					
AUG 01	20	D142 09.6					1.7					
AUG 01	21	C111 38.8		P 11 43	PCP 13 02	PP 13 28						
AUG 01	21	I44 26.0										
AUG 01	22	D139 36.8		I 98 42								
AUG 02	05	I50 18.4										
AUG 02	09	D127 41.6		I 27 44								
AUG 03	04	D135 49.2										
AUG 05	01	C111 52.6		I 12 02			1.6					
AUG 05	04	C104 42.6		PP 05 47								
AUG 05	07			E 21 39								
AUG 05	20	I10 50.2										
AUG 06	00	C103 45.6	04 21									
AUG 06	02	D136 53.4										
AUG 06	05	D111 58.0	13 12									
AUG 06	05			I 57 50								
AUG 06	18	D132 26.8		I 32 28	T 37 25							
AUG 06	18			E 40 57	T 43 22							
AUG 06	19	C143 27.4					1.3					
AUG 06	20	E05 21		T 10 26								
AUG 06	20	I13 51.8	14 49	T 18 27								
AUG 06	20	D129 35.4		I 29 37			1.3					
AUG 06	21	D114 20.2		I 14 23	*PP 14 29							
AUG 06	22	I52 37.4	53 39	I 52 43	T 57 33							
AUG 07	02	D123 08.2	31 20	PP 25 18	PKPPK 52 45							
AUG 07	05	E31 59	32 58	T 36 51								
AUG 07	10	C136 25.8										
AUG 07	14	C100 22.0		SKP 02 59								
AUG 07	14	C120 51.6										

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1966	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG						
MTH DY	HR	M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T	REMARKS				
AUG 07	14	I37 20.4										
AUG 07	17	E47 59										
AUG 07	20	C128 49.6		I 48 08								
AUG 08	00	I48 00.2										
AUG 08	08	I15 12.4										
AUG 08	12			E 37 48								
AUG 08	23	E23 10										
AUG 09	00	E27 34										
AUG 09	03	D140 15.0		I 40 19								
AUG 10	03	C130 23.8										
AUG 10	05	I20 07.6		SKP 23 29								
AUG 10	15	I29 17.6										
AUG 10	22	C113 20.6		PP 14 51	PCP 15 11							
AUG 11	00	E30 09										
AUG 11	10	E55 49		PCP 56 41								
AUG 11	15	I16 31.4										
AUG 11	23	I44 49.8										
AUG 12	19	D132 46.8		PCP 33 11			1.3					
AUG 12	20	D126 51.6		*PP 27 02			2.5					
AUG 12	21	I53 51.0	54 27									
AUG 12	22	C134 32.2										
AUG 15	02	D124 48.0		*PP 24 56	PCP 25 54		1.8					
AUG 15	02	D157 52.0		PCP 58 00			1.8					
AUG 15	10	C132 03.6		*PP 32 10								
AUG 15	13	C145 18.4		*PP 45 24	PCP 46 39		1.6					
AUG 16	02	C124 02.8	30 15	I 24 11	PP 25 37	PPP 26 25	2.6					
AUG 16	02	I49 49.2	51 30									
AUG 16	03	C159 44.6					1.5					
AUG 16	18	E13 36										
AUG 16	22	I19 48.6	20 15									
AUG 17	05	D147 42.2										
AUG 17	20	D106 57.6										
AUG 17	21	D108 21.2		*PP 08 34			1.8					
AUG 18	06	D147 54.8		PCP 48 32			1.8					
AUG 18	10	D145 36.8		*PP 45 53			2.4					
AUG 18	14	D147 19.8					1.7					
AUG 18	14	D151 14.2										
AUG 19	12	C128 41.6		I 28 45	I 28 49	PP 29 36	1.7					
AUG 19	12	D157 11.2		PCP 57 37								
AUG 19	13	D121 40.0										
AUG 19	14	D100 59.2		PP 02 04								
AUG 19	14	C124 29.2					1.4					
AUG 20	08	C138 49.2										
AUG 20	09	D142 20.7		PP 44 23								
AUG 20	12	C105 40.3		I 05 47	PP 06 45	PCP 08 12	1.8					
AUG 20	23	I14 12.7										
AUG 21	00	C121 35.1										
AUG 21	01	E36 55		PP 37 43								
AUG 21	05	D113 10.7										
AUG 22	11	E19 51										
AUG 22	14	I29 46.3		*PP 31 45								
AUG 22	16			E 04 39								
AUG 22	18	E01 16		PKS 04 42								
AUG 22	21	I51 42.2	53 32									
AUG 22	22	I05 33.4										
AUG 23	05	C157 17.4										
AUG 23	14	C154 22.2	55 15									
AUG 23	18	D133 41.0										
AUG 26	01	E11 08		*PPKP 11 29								
AUG 26	01			PG 50 59	SG 51 35							

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1966	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
OCT 19	04	C104	43.4			PP 06 00				
OCT 19	06	D142	15.4							
OCT 19	08	C113	12.4			PCP 13 29	PP 15 52	PPP 17 25		
OCT 19	19	D135	15.0			PCP 36 02				
OCT 19	19	I46	00.6							
OCT 19	20	D145	16.6							
OCT 20	01	I02	19.8							
OCT 22	03	D113	48.0			PCP 14 12			1.6	
OCT 22	12	C156	26.8			I 56 34	*PP 56 42			
OCT 23	00	I08	43.2							
OCT 23	07	C118	56.8			*PP 19 08			1.9	
OCT 23	08	I04	16.8	05 22						
OCT 23	12	C124	54.4							
OCT 24	14	C138	41.2			PP 40 12	PPP 40 35		1.6	
OCT 25	10	C115	43.6						1.8	
OCT 26	18	I47	51.7							
OCT 27	02	I40	28.5							
OCT 27	06	I00	46.0							
OCT 27	14	D133	18.5			*PP 33 28	PP 36 41		1.8	
OCT 27	23	C156	58.9			I 57 11			1.8	
OCT 29	14	I42	57.8							
NOV 01	07	C110	56.6			PCP 11 29			2.5	
NOV 02	12	C101	42.4							
NOV 03	03	I47	52.8							
NOV 03	16	C135	50.2							
NOV 06	04	E00	13							
NOV 08	03	C121	25.9							
NOV 09	11	I37	36.8							
NOV 09	14	E19	38							
NOV 09	15	E18	40							
NOV 10	03	D121	08.0							
NOV 11	15	D140	56.0							
NOV 11	16	I13	04.8							
NOV 12	13	D100	01.0			*PP 00 13			2.3	
NOV 12	17	E43	59			I 44 09				
NOV 12	19	D103	53.8			I 03 56	I 04 06			
NOV 12	23	E15	19							
NOV 13	03	D103	03.0			PCP 03 23				
NOV 15	00	D118	00.6							
NOV 15	16	I29	02.4							
NOV 16	23	D125	59.0							
NOV 18	18	D109	13.6	10 09		T 13 58				
NOV 18	18	I50	03.6	51 03		T 54 42				
NOV 19	07	D119	28.0							
NOV 19	07	D153	23.6			PCP 53 45				
NOV 21	12	C129	25.8							
NOV 22	06	C138	52.2			PCP 39 42				
NOV 22	09	D102	00.8							
NOV 23	02	E38	05							
NOV 24	07	E51	20							
NOV 24	19	E23	25							
NOV 24	20	C119	05.4							
NOV 26	03	C126	02.6							
NOV 27	03	I03	58.8							
NOV 27	13	I53	31.8							
NOV 27	15	D150	37.2	51 39		T 55 46				
NOV 27	20	D115	16.0	16 58						
NOV 29	05					I 13 38				
NOV 29	17	C126	50.9							
NOV 29	22	C136	04.9			I 36 58				

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1966	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
NOV 30	13	D101	59.0			02 51	T 06 37			
DEC 01	04	I38	17.8							
DEC 01	05	D115	35.8			PP 17 33	PKS 19 03	I 25 42		
DEC 01	19	C106	19.0							
DEC 02	03	D116	14.2							
DEC 02	09	D144	23.8							
DEC 03	14	C131	45.0			I 44 29				
DEC 07	17	C127	56.0			PP 34 27				
DEC 08	00	C105	46.4			*PP 28 05	I 28 14	PCP 28 35		
DEC 08	02	C115	56.4							
DEC 08	11	I37	03.6							
DEC 09	16	C153	48.6			PP 38 03				
DEC 10	13	D118	56.2							
DEC 10	17	D114	39.8			I 19 01				
DEC 11	19	C157	42.4			PP 15 37	PPP 16 04	PCP 17 54	1.5	
DEC 11	20	E05	01							
DEC 11	20					PCP 11 24				
DEC 11	20	C121	15.0							
DEC 13	12	C128	48.8							
DEC 14	03	D153	25.0			I 28 51	PCP 30 42	PPP 30 58		
DEC 14	06					I 54 27	I 54 38			
DEC 14	14	C155	04.2			E 53 40				
DEC 14	21	E21	56			I 55 06	PP 55 41	PPP 56 00		
DEC 15	02	D118	34.6							
DEC 16	21	C101	31.4			*PP 18 45	PCP 19 06		1.8	
DEC 16	22	I22	08.2			PCP 02 36				
DEC 17	06	C101	46.0	03 44						
DEC 18	05	I04	41.1							
DEC 20	12	C140	34.2			I 04 50				
DEC 20	12	D144	23.0							
DEC 20	13	E19	39			PP 45 15				
DEC 20	15	D141	03.4							
DEC 20	18	D151	53.8			I 41 29				
DEC 21	09	C110	35.4							
DEC 21	22	C120	15.2			I 10 56			2.0	
DEC 22	17	C136	40.2							
DEC 23	16	E04	44							
DEC 24	06	E12	51			PP 09 04	I 19 51			
DEC 24	22	E37	51			I 12 55				
DEC 25	23	D113	10.3							
DEC 26	01	C135	50.3							
DEC 27	01	D132	55.7							
DEC 27	17	I42	51.9			*PP 33 14	PCP 33 22			
DEC 27	21	I34	39.6							
DEC 29	21	D144	04.0							
DEC 29	23	I28	03.4							
DEC 30	04	D149	33.4							
DEC 30	10									
DEC 30	19	C132	05.3			E 25 19				
DEC 31	00					E 37 30				
DEC 31	18	I41	48.6							
DEC 31	19	I11	57.6			I 42 10	PP 43 39			
DEC 31	19	E57	15			I 12 12				
DEC 31	22	E33	57			I 34 16	I 34 22			

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1967 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 01	03	C111 07.0		PCP 11 17				10.7N 92.8E
JAN 01	07	D124 46.6		I 24 48	*PPKP 25 03			15.3S 173.6W
JAN 01	16			I 04 03				42.6N 147.5E
JAN 02	08	C126 47.0		I 27 01				32.2N 22.7E
JAN 02	10	C100 00.6		*PP 00 11				10.2S 28.5E
JAN 02	13	D158 01.8		PCP 59 59				30.6N 50.4E
JAN 04	03	C153 15.0		*PP 53 25				20.3N 120.0E
JAN 04	04	I44 46.2		I 45 06				68.0N 21.2E
JAN 04	06	C105 15.0		I 05 17	PP 06 34			38.6N 22.1E
JAN 04	11	I37 08.2		I 37 28				23.4N 93.9E
JAN 04	20	C127 42.8		I 27 51				10.7N 62.5W
JAN 05	00	C122 45.4		I 22 49	PP 24 21			48.1N 102.8E
JAN 05	00	D150 17.2						48.4N 103.1E
JAN 05	06	D125 29.4		I 25 34				13.8N 120.7E
JAN 05	10	D115 45.4						39.4N 72.9E
JAN 06	00	D106 26.9		PP 08 11				48.1N 102.9E
JAN 06	00	C114 18.1		I 14 23				41.8N 102.9E
JAN 07	13	C147 45.2		*PP 47 56				11.8N 142.7E
JAN 08	05	D112 00.2						56.0N 162.9E
JAN 08	08			E 41 11				56.2N 162.7E
JAN 09	02	C103 43.0		I 03 44	PP 05 37			27.7N 54.5E
JAN 09	18	C121 08.8		I 21 28				5.1N 77.6W
JAN 11	11	D128 06.2		I 28 11	PP 29 34	PCP 30 05		34.1N 45.7E
JAN 12	09			I 38 49				NORDLAND
JAN 12	18	D122 45.3		I 23 02				28.0N 54.5E
JAN 13	14	D114 49.3		*PP 15 18				23.8N 94.6E
JAN 14	11	E07 06						39.1N 70.6E
JAN 14	12	D114 36.1		*PP 14 48				52.1N 175.4E
JAN 14	14	C125 12.1	25 41					67.6N 20.9E
JAN 14	15			E 36 59				44.6N 81.5E
JAN 15	09	D125 42.3		*PP 25 49				56.5N 153.2W
JAN 15	20			I 06 24				55.7N 110.7E
JAN 17	01	C125 25.0						27.4S 63.3W
JAN 17	12	C110 06.3		*PP 10 16				38.3N 142.1E
JAN 17	12	E36 56						38.3N 142.1E
JAN 18	04	E30 37						48.9N 154.9E
JAN 18	05	C142 27.5		I 42 31	PP 44 09	PCP 44 20		56.6N 120.8E
JAN 18	08	C128 11.7		I 28 16				52.5N 168.3W
JAN 18	08	D139 12.3						42.0N 142.4E
JAN 18	21	E57 32						48.1N 102.9E
JAN 19	12	C157 01.7						11.8S 166.4E
JAN 19	14	C151 25.9						52.4N 169.6W
JAN 20	02	D105 28.9		I 05 31	PP 07 11	PCP 07 14		48.0N 102.9E
JAN 21	03			I 13 49	PKP2 13 56			49.8S 114.8W
JAN 21	14	E07 32						30.7S 178.2W
JAN 22	10	C139 44.2						53.5N 165.3W
JAN 22	12	D121 40.0		I 21 44				8.8N 93.7E
JAN 24	03	C115 50.7		I 16 02				41.4N 141.9E
JAN 24	04	C158 39.5						44.6N 142.2E
JAN 24	14	D155 23.8						30.1N 104.1E
JAN 24	20			E 32 49	I 33 15			70.5N 13.5E
JAN 25	01	C157 54.8		I 58 03	PP 59 32	PCP 59 40		36.6N 71.6E
JAN 26	16	E22 58						15.0N 92.8E
JAN 28	01	I51 37.9						24.8N 121.8E
JAN 28	14	I02 48.3		I 02 50	PP 03 41			52.4N 169.5W
JAN 28	14	D115 48.1						52.3N 169.5W
JAN 28	14	I17 03.5						ALEUTIAN ISL
JAN 28	14	E22 48						
JAN 28	14	D133 16.7						52.4N 169.4W
JAN 28	14	D140 15.7						52.5N 169.4W

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1967 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 28	14	D151 12.9						52.4N 169.5W
JAN 28	16	C141 13.7						52.3N 169.3W
JAN 28	17	D109 08.7						52.4N 169.4W
JAN 28	17	D129 24.5						52.3N 169.5W
JAN 28	17	C136 25.3						52.3N 169.4W
JAN 28	17	C151 51.5						52.4N 169.4W
JAN 29	00	D117 08.3						47.9N 14.3E
JAN 29	04	E02 38						26.5N 55.3E
JAN 29	07	E21 49		I 22 16				IRAN
JAN 29	08	I05 16.7		I 05 21				26.5N 55.2E
JAN 30	01	E26 54						41.0N 44.2E
JAN 30	04			E 08 43				KAZAKH USSR
JAN 30	12	E31 34						39.3N 41.3E
JAN 30	21	C115 43.2		I 15 49	PCP 16 25			26.2N 96.2E
JAN 31	03	I43 42.8						47.9N 102.8E
JAN 31	17	C154 07.0						42.8N 145.4E
JAN 31	19	E09 06		PCP 10 34				26.5N 55.3E
FEB 01	01	E15 59		I 16 01	I 16 04			26.7N 55.3E
FEB 01	09	E27 46		E 28 21				55.8N 160.7E
FEB 01	15	I33 04.8						4.8S 103.2E
FEB 02	06	D144 52.4		PP 47 26	PKS 48 33			57.9S 25.7W
FEB 02	07	C145 42.8		I 45 50	PP 47 20			39.7N 75.5E
FEB 02	16	D134 34.4		I 34 40	PCP 35 17			41.6N 139.7E
FEB 03	13	D100 36.4						JAVA SEA
FEB 04	15	E37 23		SG 40 15				59.6N 13.3E
FEB 04	18	C100 55.9						25.5N 142.7E
FEB 06	03	E29 37						22.8S 176.1W
FEB 06	03	E35 24						60.1N 152.8W
FEB 07	08	C141 35.9		I 41 38				13.9N 144.8E
FEB 07	15	C102 32.7		*PP 02 49	PCP 03 37			56.7N 157.2W
FEB 08	17	D128 12.4						23.2N 93.9E
FEB 09	14	E14 26		P 14 28	I 14 36			40.0N 20.3E
FEB 09	15	C137 36.0	48 22	I 37 47	PP 41 10	*PPP 41 28	2.6	2.9N 74.9W
FEB 09	23			E 19 11				
FEB 10	05	D155 05.6						33.0N 75.5E
FEB 10	05	D159 08.4						41.6N 86.2E
FEB 10	08			E 48 55				
FEB 11	02	C149 22.7		I 49 28				1.7 51.7N 159.5E
FEB 11	09	I35 21.5		PP 37 09	PCP 37 34			52.0N 106.2E
FEB 11	15	D126 04.6						30.5N 50.7E
FEB 11	15	I34 00.2						79.6N 3.4E
FEB 11	20		38 54					NORDLAND
FEB 13	11	D140 55.2						43.9N 148.4E
FEB 13	17	D115 22.4						43.6N 147.4E
FEB 13	23	D120 24.8		P 20 34	I 20 48	I 21 36		52.7N 34.1W
FEB 14	01	C147 32.4		PCP 47 48				13.7N 96.5E
FEB 14	01	D150 53.0						ANDAMAN ISL.
FEB 14	05	C120 20.4						13.3S 171.3E
FEB 15	01	C154 49.5						34.5N 47.6E
FEB 15	06	C108 12.7		I 08 30	PCP 08 34			20.4N 94.1E
FEB 15	16	C123 48.3		I 23 52	*PP 25 59			9.0S 71.3W
FEB 17	00	E50 47						4.4N 125.6E
FEB 17	10	C130 06.7		PP 32 32	PKS 33 42			23.7S 175.2W
FEB 18	00	D141 08.6						28.9N 43.4W
FEB 19	12	I39 57.4						19.1N 145.0E
FEB 19	20	C116 14.6						42.0N 83.5E
FEB 19	21	I39 32.2						52.4N 169.5W
FEB 19	22	E28 14		PP 32 11				9.2S 113.1E
FEB 19	23	I41 40.4						0.0S 41.1N
FEB 20	15	C127 13.6		I 27 19				33.7N 75.3E

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1967	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 21	05	E30 11											
FEB 21	09	CI24 42.8					14.1N 146.4E						
FEB 21	12	DI46 17.2					33.6N 75.3E						
FEB 21	13	DI55 46.0											
FEB 21	18	E55 17					1.5N 127.2E						
FEB 22	18	DI45 39.5		*PPK 46 06			19.5S 169.0E						
FEB 23	14	I37 04.3					24.2N 122.5E						
FEB 23	19	DI01 03.9					NEVADA						
FEB 23	20	DI50 19.5					26.1N 128.5E						
FEB 24	08	E15 37											
FEB 24	18	DI12 02.7											
FEB 25	00	DI28 13.2					43.9N 139.1E						
FEB 25	11	DI34 03.1					00.0S 123.9E						
FEB 25	11	CI51 58.9					00.1S 123.9E						
FEB 26	04	CI04 43.9		PP 06 01			49.8N 78.1E						
FEB 27	02	E19 28		I 19 42			02.9N 74.8W						
FEB 27	18	E11 43											
FEB 27	21	E06 04		I 06 14		PP 06 45	RUMANIA						
FEB 28	09	DI48 28.1		PCP 48 50			32.7N 141.7E						
FEB 28	15	I25 19.4					53.1N 159.9E						
MAR 01	10	DI21 16.9		*PP 21 27			28.3N 57.1E						
MAR 01	22	DI26 25.2					51.4N 179.3W						
MAR 02	03	CI00 32.0					00.3S 78.7W						
MAR 02	08	E03 23					32.1N 55.8E						
MAR 02	08	I28 27.6					35.7N 139.9E						
MAR 02	20	CI57 10.4		I 57 21			1.6 52.4N 160.5E						
MAR 02	23	DI13 02.0					53.8N 160.5E						
MAR 04	05	CI20 50.2		*PP 21 26			21.4N 121.8E						
MAR 04	06	CI35 02.2					18.5S 175.4W						
MAR 04	18	CI04 19.8		I 04 23		PP 05 19 LR 11 59	39.2N 24.6E						
MAR 05	19	CI31 29.2											
MAR 06	04	DI50 44.6					1.8 30.5N 137.6E						
MAR 06	08			E 30 46			TONGA ISLAND						
MAR 06	11	DI41 04.0		*PP 41 17			03.7N 95.8E						
MAR 07	04	DI53 15.6					22.0N 144.0E						
MAR 07	16			E 15 31			NORDLAND						
MAR 07	16	DI34 09.6					04.1N 125.6E						
MAR 08	05	E25 32					24.4N 142.8E						
MAR 08	22	CI32 36.6					15.6S 167.6E						
MAR 10	00	CI41 56.0					1.9 28.7N 138.7E						
MAR 11	06	DI38 50.4					36.4N 70.7E						
MAR 11	14	E57 11		I 57 22			19.1N 95.8W						
MAR 11	17	DI06 48.4					28.4N 94.4E						
MAR 11	18	E55 04					29.2N 81.4E						
MAR 12	03	CI02 05.2		I 02 16			42.6N 143.0E						
MAR 13	14	CI53 50.8		*PP 54 00			1.7 53.7N 165.4W						
MAR 13	19	I14 10.0					03.6N 126.5E						
MAR 13	19	CI31 21.6					19.7N 38.9E						
MAR 13	21	CI47 16.8		PP 47 28		I 49 51	82.2N 39.7E						
MAR 14	07	CI08 00.8		*PP 08 09			1.9 28.4N 94.3E						
MAR 14	07	CI53 26.0	56 14	PP 53 47		I 57 05	82.5N 36.2E						
MAR 18	18	E00 31					36.3N 139.8E						
MAR 19	04	DI11 42.0		I 11 47			45.4N 151.3E						
MAR 19	17	I35 04.1					51.9N 180.0E						
MAR 19	22	DI00 49.7					45.8N 151.0E						
MAR 20	09	DI40 40.5					45.6N 151.5E						
MAR 20	13	DI41 36.1		I 41 37		*PP 41 47 PCP 42 17	45.6N 151.4E						
MAR 20	13	CI48 55.3					45.6N 151.4E						
MAR 20	13	CI50 55.3		*PP 51 07			45.6N 151.5E						
MAR 20	14	DI02 09.7		I 02 11			1.8 45.6N 151.5E						

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1967	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 20	14	CI54 21.7					45.4N 151.5E						
MAR 20	15	DI56 30.5					45.6N 151.2E						
MAR 20	17	DI21 38.9					45.5N 151.4E						
MAR 20	22	I37 49.7					35.8N 44.2E						
MAR 21	18	DI23 59.0					06.8N 73.0W						
MAR 23	13	DI52 00.7					45.8N 151.9E						
MAR 24	09	DI12 47.9		*PP 14 56			06.0S 112.3E						
MAR 24	19	E29 02					40.6S 176.5E						
MAR 25	06	DI04 44.8					KAZAKH USSR						
MAR 25	22	DI34 58.8					28.8N 60.3E						
MAR 25	22	CI58 02.4		*PP 58 14		I 58 18	45.5N 151.4E						
MAR 27	09	E08 09					38.4N 116.5E						
MAR 27	10	E20 39					16.5S 168.1E						
MAR 30	02	I21 56.7					11.0S 115.5E						
MAR 31	02	DI22 12.2					52.1N 169.7W						
MAR 31	03	E27 23					20.2N 38.6E						
MAR 31	04	E27 01					63.1N 148.5W						
MAR 31	07	I07 01.4					12.8N 123.1E						
MAR 31	09	DI25 16.3					51.8N 176.2E						
MAR 31	20	DI23 58.0					1.7 15.4S 167.5E						
APR 01	06	CI04 20.8		I 04 23		PCP 05 01	45.8N 151.8E						
APR 01	06	CI07 08.3		I 07 14			46.3N 152.0E						
APR 01	07	I58 30.0		PCP 59 08			45.9N 152.0E						
APR 01	12	I33 37.8		*PP 33 48		I 34 02	45.7N 151.8E						
APR 01	14	DI10 39.0					1.7 45.8N 151.7E						
APR 01	17	DI25 49.0					45.9N 152.0E						
APR 01	17	I28 46.2					46.1N 151.9E						
APR 01	17	DI31 13.0					45.6N 151.9E						
APR 03	16	I41 45.5					44.9N 10.6E						
APR 04	04	DI04 30.7		*PP 04 43			1.9 45.5N 152.2E						
APR 04	09	DI16 23.5					33.4N 137.5E						
APR 04	17	DI05 48.0					35.4N 23.6E						
APR 05	02	CI46 35.2		*PP 46 49			20.0N 147.1E						
APR 05	03	DI00 18.4		I 00 24			20.0N 147.2E						
APR 05	03	CI02 23.2					MARIANA ISL.						
APR 05	19	E04 40											
APR 05	23	E52 24											
APR 06	06	CI28 26.4					31.1S 178.2E						
APR 06	08			E 16 01			34.4N 139.0E						
APR 06	12	I34 23.6					20.1N 147.2E						
APR 06	13	CI05 19.2		PP 06 52			30.1N 50.9E						
APR 06	23	E42 58					36.3N 140.5E						
APR 07	17	I13 53.4					37.4N 36.1E						
APR 07	18	I40 10.6					37.4N 36.2E						
APR 07	19	CI48 31.8					47.0N 146.0E						
APR 08	05	DI53 17.2		SKP 55 43			19.9S 178.6W						
APR 08	10			I 36 42			NORDLAND						
APR 08	20	I26 49.2					5.7N 126.9E						
APR 09	01	I23 30.0					4.0N 96.1E						
APR 10	15	CI21 14.9					7.3S 155.8E						
APR 10	20	DI06 37.3		*PP 06 55		PCP 07 47	58.6N 154.3W						
APR 11	12	E53 53					18.8N 62.7W						
APR 12	04	E52 02					19.3N 63.6W						
APR 12	05	DI03 48.4		P 03 54		I 04 09	5.3N 96.5E						
APR 12	05	DI23 24.8				I 04 39	5.5N 96.7E						
APR 12	05	CI30 15.6					5.6N 96.7E						
APR 12	05	DI54 59.0					13.8N 144.6E						
APR 13	08	DI37 50.4					5.5N 96.6E						
APR 13	08	DI46 40.0	46 59										
APR 13	09			I 05 49		I 07 06							

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1967	MTH	DY	HR	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG	REMARKS			
				M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T				
MAY 20	01			CI15	37.4								
MAY 20	03			DI03	33.4								
MAY 20	08			DI55	03.8								
MAY 20	10			E34	28								
MAY 20	13			DI21	32.4								
MAY 20	15			CI11	03.6								
MAY 20	21			DI57	02.4								
MAY 20	23			CI19	46.4								
MAY 21	18			CI42	39.0								
MAY 21	18			CI57	43.8								
MAY 22	03			I38	05.4								
MAY 22	18												
MAY 22	19			DI52	39.6								
MAY 23	01			DI32	29.6								
MAY 23	02			DI02	47.6								
MAY 23	06			CI02	58.0								
MAY 23	08			DI47	31.6								
MAY 23	12			I03	38.6								
MAY 23	14			DI11	03.6								
MAY 23	19			CI36	40.6								
MAY 23	21			DI06	23.4								
MAY 24	01			E45	19								
MAY 24	16												
MAY 24	17			E30	50								
MAY 24	22			DI48	01.6								
MAY 25	19			DI01	35.0								
MAY 26	10			CI35	17.0								
MAY 26	15			I30	14.0								
MAY 26	15			I37	56.8								
MAY 26	15			I39	40.8								
MAY 26	17			I38	06.4								
MAY 26	19			CI44	48.0								
MAY 26	21			DI23	08.4								
MAY 27	01			CI50	38.2								
MAY 27	06			DI37	05.6								
MAY 27	07												
MAY 27	12			DI50	48.8								
MAY 27	17			CI32	46.4								
MAY 27	19			CI14	08.4								
MAY 27	20			DI21	20.0								
MAY 28	01			CI41	40.4								
MAY 28	04			I12	00.4								
MAY 28	04			CI14	42.4								
MAY 28	06			E48	07								
MAY 28	07			E29	06								
MAY 28	12			E10	59								
MAY 28	12			I30	29.4								
MAY 29	04			CI58	41.6								
MAY 29	11			I28	31.6								
MAY 29	13												
MAY 29	21			DI11	48.4								
MAY 30	10			I04	43.2								
MAY 31	00			I00	30.4								
MAY 31	05												
MAY 31	11			CI50	14.2								
MAY 31	13												
MAY 31	16												
MAY 31	16			I20	18.2								
MAY 31	18			I07	13.8								
JUN 01	03			DI45	59.4								

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1967	MTH	DY	HR	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG	REMARKS			
				M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T				
JUN 01	10			I25	29.0								
JUN 01	10			I45	59.7								
JUN 01	11			I13	58.0								
JUN 01	11												
JUN 02	04			CI35	46.4								
JUN 02	05			DI17	01.2								
JUN 02	06			DI43	10.4								
JUN 02	08												
JUN 02	20			E26	16								
JUN 03	09			CI18	05.1								
JUN 03	10												
JUN 04	05			CI36	23.4								
JUN 04	06			DI33	16.6								
JUN 04	06			DI44	01.0								
JUN 04	13			CI57	55.0								
JUN 05	01			E40	31								
JUN 05	11			DI20	47.0								
JUN 05	16			DI48	11.0								
JUN 07	16			I01	28.6								
JUN 07	17			DI08	53.4								
JUN 07	18			E26	30								
JUN 07	22			I43	55.0								
JUN 08	07			DI14	36.8								
JUN 08	08												
JUN 08	12			I14	59.2								
JUN 08	13			CI41	10.6								
JUN 08	14			I04	18.4								
JUN 08	16												
JUN 08	20			E16	46								
JUN 08	23			E27	55								
JUN 09	02			I19	28.8								
JUN 09	06			I38	13.2								
JUN 09	11			DI35	01.6								
JUN 09	17			I24	05.6								
JUN 09	19			DI37	08.8								
JUN 10	03			E59	37								
JUN 10	05			CI45	48.0								
JUN 10	05			DI57	41.9								
JUN 10	06			DI40	23.2								
JUN 10	14			DI16	53.0								
JUN 10	14			DI34	45.4								
JUN 10	18			CI15	26.2								
JUN 12	00			DI15	53.6								
JUN 12	03			E20	36								
JUN 12	18			CI18	56.8								
JUN 12	21			I30	46.8								
JUN 12	23			CI32	39.6								
JUN 13	01			CI23	03.2								
JUN 14	03			DI55	27.8								
JUN 14	05			I25	17.6								
JUN 14	06			DI00	36.4								
JUN 14	08			DI15	52.6								
JUN 14	08			CI22	55.4								
JUN 15	00			I47	20.8								
JUN 15	18			I53	14.9								
JUN 16	06												
JUN 17	05												
JUN 17	13			DI24	25.2								
JUN 18	16			E47	02								
JUN 19	12			DI55	14.0								

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MTH DY	HR	M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T	REMARKS				
JUL 11	13	E35	53					41.0S 173.6E				
JUL 11	16							NORDLAND				
JUL 12	10	CI41	38.0		E 18 39		SG 19 02	54.9N 161.1W				
JUL 12	19				I 41 52							
JUL 12	21	E13	14		I 30 31			5.6N 82.6W				
JUL 12	21				I 13 21							
JUL 13	02	DI17	19.4					35.5N 0.1W				
JUL 13	03				I 04 31			5.3S 35.1E				
JUL 13	10	CI23	18.7					20.4S 169.3E				
JUL 13	14	E44	52					40.7N 19.5E				
JUL 13	23	CI55	28.7					18.3N 146.3E				
JUL 14	11	I53	49.4					35.2N 46.4E				
JUL 14	14	I03	04.4					54.0N 164.3W				
JUL 14	16				I 17 26			NORDLAND				
JUL 14	18	E48	52					16.4S 66.8E				
JUL 15	03	DI33	42.8		PP 34 58			49.8N 78.1E				
JUL 15	08	I24	50.8					51.5N 176.8E				
JUL 15	14	DI53	28.6		I 53 35		*PP 53 38	6.8N 126.3E				
JUL 15	15	CI17	42.6	18 43				74.0N 9.1E				
JUL 16	13	E48	11		I 48 19		I 49 34	0.8S 132.6E				
JUL 17	11	CI38	14.7					51.1N 169.3W				
JUL 17	12	DI46	43.5		*PP 46 55			38.3N 142.1E				
JUL 17	14	I02	53.9					51.4N 169.5W				
JUL 18	16	E24	18					54.6N 158.2W				
JUL 18	17	DI09	44.8		*PP 09 58			40.1N 142.4E				
JUL 19	09	E12	49					37.9N 29.0E				
JUL 19	12	E59	39					20.3S 178.2W				
JUL 19	16	I24	59.6					38.3N 21.2E				
JUL 19	17	E36	13					36.5N 70.3E				
JUL 19	18				E 10 28			NORDLAND				
JUL 20	06	I00	58.6					1.2S 126.7E				
JUL 20	13	I29	56.8		E 30 56			28.1S 66.9W				
JUL 20	14	DI36	07.6		PCP 36 57			51.4N 178.3E				
JUL 20	15	I49	27.6		I 49 30		I 49 40	7.7N 134.9E				
JUL 20	19	I09	24.0				PP 53 13	40.8N 19.8E				
JUL 20	23	CI31	06.0		SKP 33 42			26.5S 178.5E				
JUL 21	07	E15	15					4.8S 101.4E				
JUL 21	10	I23	27.6									
JUL 22	04	E17	28		I 17 33			33.5S 179.0W				
JUL 22	05	I47	12.4					33.5S 179.0W				
JUL 22	11	I03	41.6					51.4N 1.3E				
JUL 22	17	I03	01.0					40.7N 30.8E				
JUL 22	17	I54	12.4					40.6N 30.7E				
JUL 22	18	I15	15.0					TURKEY				
JUL 22	19				E 53 56			40.8N 30.9E				
JUL 22	20	I41	44.6					40.6N 30.4E				
JUL 22	23				I 48 13			40.6N 30.7E				
JUL 23	03	I27	33.2					15.7S 167.1E				
JUL 24	18	I05	57.6									
JUL 25	08	I43	14.0					41.9N 24.6E				
JUL 25	12	I38	29.7		I 38 58			45.8N 26.5E				
JUL 25	13	CI08	56.9					28.9N 54.5E				
JUL 25	15	E34	29					42.3N 143.1E				
JUL 26	02	I12	26.9									
JUL 26	06	E50	32					31.8S 178.7W				
JUL 26	09	I19	57.3		I 20 03			8.6N 70.9W				
JUL 26	09	E22	15					40.3N 30.6E				
JUL 26	09	CI32	01.9	33 01	T 36 35			73.4N 7.2E				
JUL 26	18	DI59	27.6		I 59 30		PP 60 37	39.5N 40.4E				
JUL 26	19	I11	25.2					17.4S 174.3W				
JUL 26	22	DI03	04.4	05 40				66.5N 17.1W				

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MTH DY	HR	M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T	REMARKS				
JUL 27	00	E13	14									
JUL 27	01	I48	40.4					19.9N 109.4W				
JUL 27	05	E21	43					31.7N 50.8E				
JUL 27	21	I47	08.2					64.0N 20.7W				
JUL 28	02	DI50	14.6					HINDU KUSH				
JUL 28	09	DI54	24.2					42.6N 145.4E				
JUL 28	14	CI43	56.8					SKP 46 28				
JUL 28	15	E38	55					20.7S 178.5W				
JUL 28	17	DI40	06.8					63.9N 20.5W				
JUL 28	18	DI50	56.0					2.1N 98.0E				
JUL 28	20	E43	13					15.2S 178.5W				
JUL 28	22	CI56	41.2					23.9N 125.4E				
JUL 29	02	E24	59					64.0N 20.6W				
JUL 29	03	DI07	35.6					42.7N 146.7E				
JUL 29	08	I57	04.0					*PP 07 46				
JUL 29	10	I36	39.2					40.0N 145.5E				
JUL 30	00	I12	03.9					6.8N 73.0W				
JUL 30	01	I37	07.6					10.6N 67.3W				
JUL 30	03	I49	24.0					40.7N 30.4E				
JUL 30	14	E22	36					22.0N 143.8E				
JUL 30	17	E42	43					17.8S 178.8W				
JUL 30	19	I04	49.6					40.7N 126.3E				
JUL 30	20	I35	25.2					15.9N 121.2E				
JUL 30	23	DI13	17.6					46.0N 153.1E				
JUL 31	07	E18	11					40.6N 27.6E				
AUG 01	14	CI10	07.2					43.9N 147.9E				
AUG 01	17	CI01	06.0					39.7N 53.3E				
AUG 02	00	CI54	31.6					I 54 36				
AUG 02	09	DI55	34.0					44.6N 146.4E				
AUG 02	11	DI08	50.0					T 16 34				
AUG 02	14	CI03	15.8					*PP 03 27				
AUG 02	14	DI08	27.6	10 09				T 16 34				
AUG 02	15	E39	26					30.9N 53.5E				
AUG 02	16	CI22	16.8	24 05				71.2N 8.5W				
AUG 02	16	DI49	14.0	50 54				40.7N 30.6E				
AUG 02	18	CI30	30.0					71.2N 8.4W				
AUG 03	09	E05	01					4.6S 103.2E				
AUG 03	11							I 42 48				
AUG 03	14	DI43	32.6	44 33				P* 43 44				
AUG 03	21	I47	14.9					T 49 05				
AUG 03	23	I26	35.6					*PP 27 20				
AUG 04	07	DI04	43.6					53.8N 170.0W				
AUG 04	08	CI15	09.0					KAZAKH USSR				
AUG 04	15	I00	12.7					34.8N 70.1E				
AUG 04	21	E06	57					42.9N 17.7E				
AUG 05	01	DI54	57.2					I 55 09				
AUG 05	05	DI39	35.2					I 39 47				
AUG 05	10							E 25 13				
AUG 06	10	CI38	46.4					I 25 42				
AUG 06	11	I37	41.2					38.0N 74.5E				
AUG 06	20	E48	43					34.5S 179.1W				
AUG 06	22	I55	56.2					IRAN				
AUG 07	05	I57	37.6					52.7N 168.4W				
AUG 07	18							36.5N 71.2E				
AUG 07	18							E 07 52				
AUG 07	18							E 55 55				
AUG 07	18							I 08 31				
AUG 07	18							I 56 26				
AUG 10	10							SG 04 39				
AUG 10	11	CI31	26.2					*PP 31 38				
AUG 11	19	DI06	28.6					PCP 32 02				
AUG 12	04	DI41	11.4					*PP 06 58				
AUG 12	09	CI58	45.4					1.5				
AUG 12	09	CI58	45.4					*PP 41 24				
AUG 12	09	CI58	45.4					*PPKP 59 29				
AUG 12	09	CI58	45.4					PCP 41 38				
AUG 12	09	CI58	45.4					PP 61 19				
AUG 12	09	CI58	45.4					SKP 62 04				
AUG 12	09	CI58	45.4					1.7				
AUG 12	09	CI58	45.4					24.7S 177.5W				

