

UNIVERSITETET I BERGEN
JORDSKJELVSTASJONEN
(Seismological Observatory)

Seismological Bulletin
Kongsberg, Norway
1964—1965

By

ANDERS SØRNES and HARALD GAMMELSÆTER

B E R G E N — N O R W A Y 1 9 6 8

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BERGEN — NORWAY 1968

Kongsberg (KON), Norway

Latitude: 59° 38' 57" N
 Longitude: 9° 37' 55" E
 Elevation: 216 meters
 Foundation: Gneiss

The station is part of the World-wide Standardized Seismograph Network. The station has a three-component (NS, EW, Z) short and longperiod system as follows:

Instruments	Period sec.		Magnification at T _S	Damp. ratio
	T _g	T _S		
Sp Benioff	0.75	1	50.000	17 : 1
LP Sprengnether	100	30	1.500	critical

The station is located in an abandoned silver mine, 340 meters down and 2200 meters into the side of the hill. It has been in normal operation since September 1962. The arrival time given for each phase is the earliest onset of that phase on any component.

The logarithm of the amplitude/period ratio, $\log \frac{A}{T}$, is given when it is possible. The amplitude A is read from the vertical short-period component and given in millimicrons as the maximum center to peak displacement within the first few cycles of the initial arrival of P or PKP. The predominant period T in the seismogram where A is observed, is given in seconds.

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. Capital letters are used only, and pP for example is indicated by *PP.

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KONGSBERG (KON) SEISMIC STATION BULLETIN - 1964

YEAR	MTH	DY	HR	P/PKP	M	S	S/SKS	M	S	SUPP. 1	M	S	SUPP. 2	M	S	SUPP. 3	M	S	LOG	A/T	
1964																					
	JAN	01	17	D137	57.7		47	12		PCP	38	21		PP	40	48		LR	58	17	
	JAN	03	17	I31	45.5																
	JAN	03	21	I43	18.4																
	JAN	05	10	D131	33.1					I	31	43		I	31	58					
	JAN	05	12	I10	51.8																
	JAN	06	00	I05	11.5																
	JAN	06	06	I06	38.9					PCP	06	49									
	JAN	06	15	I15	24.3																
	JAN	06	20	I52	26.9																
	JAN	06	23	I56	13.4	64	53			PCP	56	44		PP	58	37		LQ	72	57	
	JAN	07	08	I57	32.0																
	JAN	07	13	I00	47.0																
	JAN	07	20	I12	44.0																
	JAN	08	13	I53	37.2																
	JAN	09	03	I10	39.3					PCP	10	56									
	JAN	09	13	I32	46.7																
	JAN	09	18	I43	04.7	52	22			PCP	43	24		PP	45	44					
	JAN	10	05	I02	13.0	11	33			PCP	02	30		PP	04	49		LR	24	23	2.0
	JAN	10	13	I46	19.1																
	JAN	10	17	I08	38.1	17	50			PCP	08	57		PP	11	20		LR	30	23	
	JAN	12	06	I11	06.9	19	54			PCP	11	36		PP	13	41					
	JAN	12	12	I53	08.1					I	53	40		PCP	54	36					
	JAN	13	14	I02	26.3																
	JAN	14	04	I37	29.9																
	JAN	14	10	I30	41.3																
	JAN	14	10	I39	32.6																
	JAN	14	22	I25	55.9																
	JAN	15	12	I33	46.4					I	33	49									
	JAN	15	19	CI05	54.3					I	06	52									
	JAN	15	21	CI48	23.7	58	37			PCP	48	30		PP	51	35					
	JAN	16	16	I11	35.8																
	JAN	17	03	I05	34.7					I	05	50		I	06	29					
	JAN	17	03	I33	07.9					I	33	30		I	33	48		PP	34	48	
	JAN	17	09	I03	17.5																
	JAN	17	14	I55	44.0																
	JAN	18	06	I35	54.1																
	JAN	18	12	I16	48.8	26	55			PCP	16	58		PP	19	52					
	JAN	18	19	I03	39.4																
	JAN	18	22	I47	11.4					I	47	37		PCP	47	53					
	JAN	19	09	I22	04.5	28	41			I	22	32		PCP	24	20					
	JAN	20	00	I35	34.5																
	JAN	20	17	I27	37.9					I	31	07									
	JAN	20	23	I26	11.4					PKP2	26	20									
	JAN	21	13	I29	49.0																
	JAN	22	11	I41	21.2																
	JAN	22	13	I46	04.8																
	JAN	22	16	I09	38.0					PCP	10	23									2.3
	JAN	22	20	I33	40.0																
	JAN	23	00	I19	10.8																
	JAN	23	15	CI27	45.2																
	JAN	24	13	I29	26.0																
	JAN	24	17	CI28	04.1					PCP	28	28		PP	30	43					
	JAN	26	09	I23	08.4	34	30			PP	27	07		LQ	51	10					
	JAN	28	14	I17	13.2	23	39														
	JAN	30	17	I51	22.5	55	48			PP	52	06		PPP	52	21					

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YEAR	*****											PAGE		
1964	*****											2		
MTH	DY	HR	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG	*****					
M	S	M	S	PHASE	M	S	PHASE	M	S	A/T	*****			
FEB	02	09		17 07	SS 22 47	LQ 26 42	I 42 37		*****					
FEB	05	11	142 01.0		LQ 63 15				*****					
FEB	06	13	C118 00.4	26 44	I 18 02	I 24 19		2.1	*****					
FEB	06	13	C124 19.9		*PP 24 26			2.2	*****					
FEB	07	13	C110 23.9		PCP 10 36			1.8	*****					
FEB	08	11	D128 39.8		I 28 55				*****					
FEB	08	20	I15 00.5					1.3	*****					
FEB	11	20	I04 25.9						*****					
FEB	12	11	I51 01.9						*****					
FEB	12	21			PS 01 16	SS 07 28	LQ 18 14		*****					
FEB	13	14	I01 22.6		*PP 01 38	PP 03 01			*****					
FEB	14	16	C148 28.4		PP 49 44	PS 59 26	SS 66 05		*****					
FEB	16	00	D124 53.6		PP 26 31				*****					
FEB	20	02	I58 14.5						*****					
FEB	20	03	C137 59.6		PCP 38 18			1.4	*****					
FEB	20	08	I46 42.3		I 46 48			1.8	*****					
FEB	20	10	I05 06.0		*PP 05 16				*****					
FEB	22	09	I10 22.0		PKP2 10 26				*****					
FEB	23	22	C146 02.9	50 07	I 46 08	PP 46 45	I 53 13	1.4	*****					
FEB	24	23	I35 25.5						*****					
FEB	25	23	D143 18.0						*****					
FEB	27	09	I10 27.2						*****					
FEB	27	15	C121 44.4	30 42	PCP 22 09	*SS 31 21	LR 43 25	1.4	*****					
FEB	28	17	I58 23.5		PCP 58 42			1.8	*****					
FEB	29	15	I32 09.4	42 10	I 68 28				*****					
MAR	02	03	I57 19.3						*****					
MAR	02	13	C 36 47						*****					
MAR	02	19	I51 52.6						*****					
MAR	03	15	I32 01.9		I 32 06				*****					
MAR	04	13	I59 22.7						*****					
MAR	04	17	39 29		PP 40 32				*****					
MAR	04	21	37 27						*****					
MAR	05	15	38 26		I 38 57	I 39 01	I 39 04		*****					
MAR	06	13	51 27						*****					
MAR	07	07	I37 36.0						*****					
MAR	07	07	I47 09.6						*****					
MAR	07	08	I48 14.3						*****					
MAR	09	10	I35 40.4						*****					
MAR	10	13	I07 29.3						*****					
MAR	10	13	I14 54.7						*****					
MAR	11	00	I14 48.6		*PP 14 58				*****					
MAR	11	13	C144 55.2						*****					
MAR	11	23	42 48						*****					
MAR	12	04	I49 05.8						*****					
MAR	13	06	I02 33.2						*****					
MAR	13	15	I23 48.9						*****					
MAR	14	02	I40 22.5	42 39	SS 42 55	LR 43 00		1.8	*****					
MAR	15	08	C107 28.1		PP 08 58				*****					
MAR	15	22	D136 00.4						*****					
MAR	16	01	C115 02.1		PP 17 09			2.4	*****					
MAR	16	01	I58 46.5		I 58 56	I 59 07			*****					
MAR	16	03	I36 14.4						*****					
MAR	16	08	C155 31.7		PCP 55 48				*****					
MAR	16	19	I35 11.2						*****					
MAR	16	21	I58 01.4						*****					

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YEAR	*****											PAGE		
1964	*****											3		
MTH	DY	HR	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG	*****					
M	S	M	S	PHASE	M	S	PHASE	M	S	A/T	*****			
MAR	18	04	C147 19.6	55 26	PCP 48 50	LQ 63 10		2.5	*****					
MAR	19	05	I04 09.1						*****					
MAR	19	15	I41 27.1						*****					
MAR	19	22	03 33						*****					
MAR	20	13	I16 11.5						*****					
MAR	21	03	I59 16.3						*****					
MAR	21	16	C146 52.5					2.3	*****					
MAR	23	13	D148 30.6		I 49 23			2.1	*****					
MAR	23	14	19 32						*****					
MAR	23	15	I38 07.1						*****					
MAR	24	13	29 10						*****					
MAR	27	04	41 16		I 41 24	PCP 41 39			*****					
MAR	27	20	C140 43.9		I 43 37			2.5	*****					
MAR	28	03	I46 08.2						*****					
MAR	28	06	D100 04.4		I 00 12				*****					
MAR	28	07	I01 12.3		I 01 25				*****					
MAR	28	07	D103 47.6		I 03 53	PCP 04 37		1.9	*****					
MAR	28	07	D120 33.8		PCP 21 10	PP 22 30		1.1	*****					
MAR	28	07	I40 52.3		PCP 41 32	PP 43 20			*****					
MAR	28	07	I54 08.3		I 54 15				*****					
MAR	28	08	I50 17.3		I 50 25				*****					
MAR	28	09	D105 52.3						*****					
MAR	28	09	C111 29.6		I 11 36			2.5	*****					
MAR	28	09	C116 24.4		I 16 32	PCP 16 53		1.9	*****					
MAR	28	09	I24 03.8						*****					
MAR	28	09	I55 17.7					1.5	*****					
MAR	28	10	C102 52.5		PCP 03 43				*****					
MAR	28	10	I28 18.3						*****					
MAR	28	10	I43 19.2						*****					
MAR	28	10	D146 01.8		I 46 08			2.2	*****					
MAR	28	11	I15 06.7						*****					
MAR	28	11	C118 29.8		PCP 19 12				*****					
MAR	28	11	D135 27.4						*****					
MAR	28	11	I42 29.9						*****					
MAR	28	12	I00 17.3		I 00 24				*****					
MAR	28	12	I13 16.8						*****					
MAR	28	12	C121 01.0		I 21 07				*****					
MAR	28	12	C131 19.0		PP 33 35	PPP 34 47		2.6	*****					
MAR	28	13	I00 16.0		I 00 25				*****					
MAR	28	13	I11 16.5						*****					
MAR	28	13	58 07						*****					
MAR	28	14	I12 27.3						*****					
MAR	28	14	I57 00.4		PCP 57 36	PPP 59 13	PCS 60 05		*****					
MAR	28	15	I10 53.1						*****					
MAR	28	18	I13 56.0						*****					
MAR	28	20	C139 10.4	47 40	PCP 39 44	PP 41 29	PPP 42 47	2.4	*****					
MAR	28	21	08 40						*****					
MAR	28	22	39 03		I 39 10				*****					
MAR	28	23	I56 23.9		I 56 47				*****					
MAR	29	01	D119 41.3		*PP 19 50			2.0	*****					
MAR	29	01	C139 55.5		I 40 01				*****					
MAR	29	01	C158 49.9		I 58 56			1.7	*****					
MAR	29	02	I18 11.5						*****					
MAR	29	02	I26 44.9		I 26 52				*****					
MAR	29	03	I17 22.5		I 17 29				*****					

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YEAR	MTH	DY	HR	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG
1964				M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T
MAY 20	05			I13 19.8		I 13 26			2.0
MAY 20	05			E42 31					
MAY 20	06			E26 08		I 26 25			
MAY 21	01			I21 22.6					
MAY 21	11			I52 08.7					
MAY 21	13			E08 24					
MAY 21	22			I44 24.1					
MAY 22	00			E46 53					
MAY 23	00			E26 47					
MAY 23	11			D134 13.9		PCP 34 17	PP 37 31		1.6
MAY 24	00			E10 25					
MAY 24	00			E50 28					
MAY 24	04			C132 32.4		I 32 39			1.6
MAY 24	10			E26 27					
MAY 24	10			D143 24.9	53 15	PCP 43 59	PP 46 24		1.3
MAY 24	14			E45 09					
MAY 24	16			E44 09					
MAY 24	21			E05 19					
MAY 24	22			E42 31					
MAY 25	05			D119 26.7		I 19 31			1.2
MAY 25	19			E57 16	68 15	I 57 26	SS 74 40	LQ 81 44	
MAY 26	05			I43 42.3		I 43 45			
MAY 26	11			I17 46.9	28 02	I 19 11			
MAY 27	01			D115 18.2		PP 16 38	E 26 26	PKKP 26 32	1.5
MAY 28	02			E09 04					
MAY 28	11			D132 44.0					1.3
MAY 29	03			D144 54.0					1.3
MAY 29	05			D119 17.4					1.3
MAY 29	10			I27 37.1					1.5
MAY 29	11			E00 45					
MAY 29	18			C153 33.4					1.6
MAY 29	19			E00 48					
MAY 29	19			E20 27					
MAY 30	03			I28 16.0					1.3
MAY 30	14			I42 32.3	52 40	PCP 42 45	PP 44 25	PPP 47 13	2.3
MAY 30	22			C145 03.1					1.6
MAY 31	00			C151 53.5	61 11	I 51 55	PP 54 26	PPP 56 13	
JUN 01	18			D142 32.2					1.4
JUN 03	02			I59 32.6					1.5
JUN 04	04			D141 31.6					
JUN 05	00			I17 52.1		I 18 05	PP 18 45	PPP 19 59	
JUN 05	02			I44 43.8		I 44 55			1.4
JUN 05	05			I31 27.7					
JUN 05	10			I00 33.2		I 00 38			1.6
JUN 05	13			I07 13.3					
JUN 05	22			D117 13.3		I 17 17			
JUN 07	15			I01 18.5					
JUN 09	04			E13 37					
JUN 09	09			I34 19.3					
JUN 10	09			C113 54.6		I 14 02			
JUN 10	18			E05 33		E 05 42			
JUN 10	22			I30 11.8	40 26	PP 34 17	S 41 31		1.5
JUN 11	22			I29 59.9					
JUN 12	18			I30 47.9					1.7
JUN 13	04			I31 39.3					
JUN 13	08			I38 45.4					

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YEAR	MTH	DY	HR	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG
1964				M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T
JUN 13	08			I39 50.5					
JUN 13	11			E34 08					
JUN 13	17			E46 52			I 47 06		
JUN 13	20			I53 26.8					
JUN 13	22			I51 26.2					
JUN 14	01			I39 47.3					1.4
JUN 14	12			I21 27.4	26 13	I 21 36		SS 27 50	1.7
JUN 15	00			I17 59.9	28 22	PCP 18 03		SS 33 46	
JUN 15	11			D104 32.9					1.5
JUN 15	16			E55 45					
JUN 16	04			I13 14.4	22 50				1.8
JUN 16	05			E45 13		I 45 21			
JUN 16	07			I04 39.7					
JUN 16	07			I26 32.8					1.9
JUN 17	12			D125 28.2					1.4
JUN 17	22			I36 12.6					1.7
JUN 18	18			I12 53.7	22 07	PCP 13 06			1.5
JUN 18	20			E09 35		I 39 39			
JUN 19	00			C155 35.5					2.0
JUN 19	10			D117 08.4					
JUN 21	01			I43 59.1					
JUN 22	13			C159 25.3		I 59 30			
JUN 22	18			I34 02.8					
JUN 22	21			I36 21.4		I 36 34			
JUN 23	01			C137 50.3	47 03	PCP 38 07	PP 40 51	PPP 42 14	
JUN 23	05			D136 23.6					1.6
JUN 26	07					S* 14 13			
JUN 26	07					S* 39 38			
JUN 27	02			I37 21.0					
JUN 28	11			E21 17					
JUN 28	15					SKP 14 02			
JUN 28	15			I28 29.0					
JUN 28	18			C133 39.5		I 33 51			
JUN 28	19			I19 28.8					
JUN 29	00			I05 24.9					1.4
JUN 29	07			D131 17.9					1.6
JUN 30	12				35 14	I 36 46			
JUN 30	14			E00 14	10 02	PP 04 30	PPP 06 59	S 11 43	
JUN 30	15			I58 57.9		PCP 59 11	I 59 54		
JUN 30	20			I18 47.9		PP 21 14			
JUL 01	20			C117 41.9					
JUL 01	21					E 42 35	I 42 41		
JUL 01	22			C158 16.0		PP 61 20			1.3
JUL 02	01			D129 07.1					
JUL 02	11					I 23 22			
JUL 03	18			E06 17					
JUL 04	11			D115 50.6					
JUL 05	03			I24 27.1					
JUL 05	04			D158 36.1					
JUL 05	19			I20 15.6	30 28	PCP 20 24	I 20 32	SS 35 37	
JUL 05	23			D147 15.0	56 28	PCP 47 26	PPP 51 55		1.9
JUL 06	02			I26 50.6	36 57	I 26 56	I 27 03		
JUL 06	03			I31 26.2					
JUL 06	07			D134 34.9	44 43	PP 37 46	PPP 40 12		
JUL 06	10			C121 50.3	28 39	I 21 58	PCP 23 31		1.7
JUL 06	10			D151 02.6		I 51 17	I 51 23		

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YEAR	MTH	DY	HR	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG
1964				M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T
JUL 06	19			DI33 36.1					1.3
JUL 07	07			CI57 42.0		I 57 56	SKP 60 33		
JUL 07	20			I21 06.0					
JUL 08	12			CI09 47.5		PP 14 12	PPP 16 32		1.6
JUL 09	03			CI45 58.1					
JUL 09	05			I59 48.1		I 60 02			
JUL 09	11			DI41 33.6	49 05	PP 44 48	SS 63 30		1.9
JUL 09	12			DI14 08.3					1.3
JUL 09	16			I58 48.6		PP 91 24	PKS 92 08		
JUL 11	09			DI54 19.9					1.5
JUL 11	17			DI48 06.3	50 43	I 48 11			1.8
JUL 11	20			DI35 42.0		PCP 36 31			1.6
JUL 12	01			DI57 02.6					
JUL 12	13			DI52 57.1					
JUL 12	20			I26 35.8		PCP 27 14			2.0
JUL 13	11			DI09 33.8		PCP 10 13			1.8
JUL 13	21			I12 48.5					
JUL 14	04			I15 04.1					
JUL 14	05			I32 15.8					
JUL 14	05			DI34 43.7		I 34 50			
JUL 14	10			DI06 13.1					1.1
JUL 14	14			CI09 05.4		PCP 09 37			1.5
JUL 14	23			I09 13.9					
JUL 15	07			I37 03.2		PCP 37 21			1.8
JUL 15	12			I40 03.5					1.3
JUL 17	02			CI39 22.4	43 42	I 39 28	PP 40 04	PCP 43 27	2.0
JUL 17	04			I52 03.7		I 52 20			1.7
JUL 17	05			I13 36.7		E 13 55			1.4
JUL 17	19			DI28 40.1					1.3
JUL 17	23			I05 57.3		I 06 06			
JUL 18	03			I45 41.9	50 04	I 45 50	*PP 46 07		
JUL 18	23			DI46 18.8					1.1
JUL 19	06			CI07 27.9		I 08 50			1.6
JUL 21	04			DI08 13.2		I 08 19	*PPKP 09 03	SKP 11 34	
JUL 21	10			DI04 09.3					1.9
JUL 21	11			DI55 07.2					
JUL 23	19			DI18 07.0		I 18 09			1.7
JUL 24	07			CI02 01.9	11 13	I 02 10	PCP 02 25	PP 04 38	
JUL 24	08			I23 47.5	33 01	PCP 24 06			
JUL 24	08			CI41 00.7					
JUL 24	09			DI18 40.5					1.2
JUL 24	09			DI28 12.0		I 28 22			
JUL 24	09			I46 26.5					
JUL 24	10			I13 27.0		I 13 38			
JUL 24	12			I20 37.8		I 20 43			1.3
JUL 24	12			CI47 10.6		PCP 47 31	I 47 59		1.8
JUL 24	13			CI36 27.5		I 36 43	I 36 54		
JUL 24	14			DI37 09.3					1.5
JUL 24	17			CI13 58.5	23 06	PP 15 43	I 16 10		
JUL 24	18			DI01 51.5					1.3
JUL 24	19			DI01 13.2					1.7
JUL 24	19			DI03 13.0		I 03 20			1.4
JUL 24	19			CI06 25.0					1.4
JUL 24	22			DI22 47.4		I 23 05			1.5
JUL 25	19			E45 33	56 13	PKP 49 54	PPP 51 25	S 57 43	

KONGSBERG (KON) SEISMIC STATION BULLETIN - 1964 PAGE 11

YEAR	MTH	DY	HR	P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG
1964				M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T
JUL 26	18			DI45 45.4					
JUL 27	00			I25 36.9					1.2
JUL 27	23			I11 46.8					1.5
JUL 28	18			E59 57			I 60 09		
JUL 28	21			E50 31	60 15				
JUL 31	04			DI16 24.1			I 16 33	PCP 16 53	1.7
JUL 31	06						PP 12 20	PKS 15 06	SKKS 22 14
JUL 31	06			I45 24.5					
JUL 31	23			I51 42.6			I 51 51		
AUG 02	08			I46 44.9			E 47 18		1.7
AUG 03	01			I59 27.0	68 31		PCP 60 03	PP 61 58	
AUG 03	07			E56 59	67 09				
AUG 03	19			DI08 25.4	08 45		I 08 30	I 08 50	1.4
AUG 03	19			DI09 43.9	10 00		I 09 49	I 10 04	1.8
AUG 03	19			I10 15.1	10 31		I 10 20	I 10 35	1.8
AUG 03	19			I10 52.9	11 07				1.8
AUG 03	19			CI11 06.6	11 22			I 11 25	1.9
AUG 04	02						SG 45 25		
AUG 04	17			I35 29.0	44 28		PCP 35 50	PP 38 03	PPP 39 48
AUG 04	23			I25 41.5					
AUG 05	04			DI36 45.7			I 36 57		
AUG 05	11			DI25 23.6	33 08		I 25 28	PKP2 25 39	PP 29 11
AUG 05	22			E42 03			E 42 11	E 43 38	PKS 46 07
AUG 06	02			I45 10.2			E 45 16		1.7
AUG 06	17			DI21 59.5					1.5
AUG 06	18			I35 14.6	43 46		I 35 17		
AUG 07	05			I47 51.7			I 47 59		1.5
AUG 08	14			I59 03.3					1.2
AUG 08	15			DI11 40.9			E 11 52	PP 14 38	1.9
AUG 08	20			I18 20.4					1.2
AUG 10	01			I21 04.2	29 58		I 21 10	I 21 19	1.6
AUG 10	17			I10 09.2					
AUG 10	18			E26 40					
AUG 10	20			I28 10.6					1.2
AUG 12	07			I02 35.9			I 02 42	PCP 03 16	
AUG 12	19			I33 52.8	40 09		I 33 59		1.4
AUG 13	00			I49 19.2			PP 50 47	PPP 53 56	PKKP 59 33
AUG 14	21			E38 08	46 33				
AUG 16	21			I35 26.7					
AUG 17	09			CI12 11.0	16 35				1.4
AUG 17	12			I02 30.4					1.5
AUG 17	15			I18 22.4	20 43		PP 18 38	LR 21 20	
AUG 17	22			CI22 06.0					1.4
AUG 18	04			E59 21			PP 63 49	PS 73 07	
AUG 19	09			DI41 04.8	47 23		I 41 16	I 42 49	SS 50 29
AUG 19	15			I28 09.0	34 30		PP 29 12	PCP 29 45	SS 37 33
AUG 19	22			I48 10.6					
AUG 20	02			E11 20	13 38		I 14 00		
AUG 20	04			I00 01.9					
AUG 20	05			CI16 46.1					
AUG 20	05			CI47 47.3			I 48 18	I 49 33	
AUG 21	08			E07 09	13 33		I 07 14		
AUG 22	17			I09 18.1					
AUG 24	22			I07 09.6					1.5
AUG 25	11			E17 30	21 55		I 17 46		
AUG 25	13			I54 28.8	59 58		PP 55 48	SS 62 40	

KONGBERG (KON) SEISMIC STATION BULLETIN - 1965 PAGE 4

YEAR		P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG
1965		M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T
MTH	DY	HR					
FEB	05	05	C116				1.3
FEB	05	06	E36				
FEB	05	06	D150		I 51 06		1.5
FEB	05	07	D119				1.6
FEB	05	07	D130		*PP 30 25		
FEB	05	07			E 40 21		
FEB	05	07	DE42				
FEB	05	09	C102		*PP 02 31		1.7
FEB	05	09	C143		*PP 43 14		
FEB	05	11	D101		*PP 01 32		1.4
FEB	05	12	I40				1.1
FEB	05	13	I37				1.8
FEB	05	13	D149		*PP 49 54		1.3
FEB	05	14	I02				1.7
FEB	05	14	D119		*PP 19 33		
FEB	05	14	D139		*PP 39 51		
FEB	05	14	E49				
FEB	05	16	C134		I 34 57		1.3
FEB	05	18	E27		*PP 27 17		
FEB	05	18	D135		*PP 35 15		
FEB	05	19	I11		I 11 48		
FEB	05	20	E50				
FEB	05	20	C158		*PP 58 21	I 58 31	
FEB	05	21	C141				1.6
FEB	05	21	I59				
FEB	05	22	C127		*PP 27 12	I 27 17	I 27 20
FEB	06	00			I 19 22		
FEB	06	01	D151	60 30	*PP 51 40	PCP 51 51	
FEB	06	02			E 19 49		
FEB	06	03	E33		E 33 42		
FEB	06	03	E50		E 50 27		
FEB	06	04	C113				1.3
FEB	06	05	C101		*PP 02 07		
FEB	06	05	E43				
FEB	06	06	D134		*PP 34 47		
FEB	06	06	D139		E 39 23		1.6
FEB	06	06	D159				1.7
FEB	06	07	D125		*PP 25 50	PCP 26 00	
FEB	06	08	I57		I 57 57	I 58 10	
FEB	06	09	I05		*PP 05 49		
FEB	06	11	I43				1.6
FEB	06	12	D133		*PP 33 38	PCP 33 53	1.2
FEB	06	13	D102				1.2
FEB	06	13	D145				1.7
FEB	06	14	I22				1.3
FEB	06	14	D134				
FEB	06	14	I45		E 45 25		
FEB	06	15	C142		*PP 42 51		
FEB	06	17			E 29 44		
FEB	06	18	I18				
FEB	06	18	D121	97 21			3.7
FEB	06	18	D153		I 53 49		1.6
FEB	06	21	D113				1.6
FEB	06	22	I37				
FEB	06	23	I34		*PP 34 55		1.4

KONGBERG (KON) SEISMIC STATION BULLETIN - 1965 PAGE 5

YEAR		P/PKP	S/SKS	SUPP. 1	SUPP. 2	SUPP. 3	LOG
1965		M S	M S	PHASE M S	PHASE M S	PHASE M S	A/T
MTH	DY	HR					
FEB	06	23	C159				1.3
FEB	07	01	D111				1.6
FEB	07	02	I28		I 28 15	*PP 28 24	
FEB	07	04	C122		*PP 22 29	PCP 22 45	I 30 14
FEB	07	06	D109				1.9
FEB	07	07					1.5
FEB	07	07	I07				
FEB	07	08	I51				
FEB	07	09	I36		PCP 51 30		
FEB	07	11	I56		*PP 57 08		1.9
FEB	07	12	C132		*PP 32 20		1.6
FEB	07	13	I31				
FEB	07	14	D158		*PP 58 21		1.4
FEB	07	16	D114				1.5
FEB	08	07	D134		*PP 34 19		1.8
FEB	08	15	C152				
FEB	08	15	E57				
FEB	08	22	C152				1.5
FEB	09	04	C145				1.2
FEB	09	17	D148				
FEB	09	20	D143				1.6
FEB	09	23	I22				
FEB	10	14			E 34 29		
FEB	10	14			I 57 58		
FEB	10	16	E16				
FEB	11	02	I56		E 56 19		
FEB	11	04	C152				1.5
FEB	12	00	D154				1.4
FEB	12	01	I06		*PP 54 30		
FEB	12	01	D114				1.6
FEB	12	01	I46				
FEB	14	19	I40	42 55			E 40 41
FEB	14	21	D128				I 28 38
FEB	15	01	D136				I 36 22
FEB	15	06	D115				
FEB	15	06	C153		*PP 53 26		1.5
FEB	15	12	C142				I 42 26
FEB	16	01	D106				I 06 12
FEB	16	12	E30				I 30 59
FEB	16	12	D135				I 35 58
FEB	16	20	C154				E 55 17
FEB	16	21	I20				*PP 20 59
FEB	17	04					E 12 16
FEB	17	10	I24				*PP 24 20
FEB	17	10	E29				PCP 30 10
FEB	17	13	E34				I 34 55
FEB	18	04	E37				I 37 26
FEB	18	07	D137				I 37 34
FEB	18	08	D145				PCP 37 51
FEB	18	09	D145				
FEB	18	12	I22				*PP 46 05
FEB	18	19					
FEB	18	23	C124				E 40 35
FEB	18	23					*PP 24 48
FEB	18	23					I 24 57
FEB	19	03	E35				E 37 53
FEB	19	06					E 36 06
FEB	19	06					E 38 28

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YEAR	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
FEB	19	18		129 51.8					
FEB	19	19		E03 47		E 04 00			
FEB	19	23		DI51 29.5					1.3
FEB	20	20		DI55 05.3					1.2
FEB	20	22		C117 48.4		*PP 17 59			
FEB	20	22		E52 12					
FEB	21	05		E57 34					
FEB	22	09		I25 49.1		*PP 25 59			
FEB	22	12		E03 49					
FEB	23	22		E26 11	36 39	PP 30 29	I 30 39		
FEB	24	14		CI32 24.2					1.5
FEB	24	21		DI04 49.7					1.5
FEB	24	21		DI34 20.1					1.4
FEB	25	05		CI33 11.1		*PP 33 21			2.0
FEB	26	01				PP 46 05	I 46 18	PPP 46 44	
FEB	26	13		E14 21					
FEB	27	07				I 58 46			
FEB	27	11		E36 59		PCP 96 27			2.1
MAR	01	13		E33 18		E 33 30			
MAR	01	21		DI44 27.4	54 42	I 44 31	PP 47 34	PPP 49 31	1.4
MAR	01	22		DI10 34.1		I 10 38	SKP 13 24		1.8
MAR	02	00		E12 11		I 12 14			
MAR	02	03		E10 16					
MAR	02	04		E59 53		E 59 59			
MAR	02	05		E59 58		E 60 04			
MAR	02	06		E17 16		I 17 24			
MAR	02	07				E 44 57	I 45 01		
MAR	02	09		CI39 21.0		I 39 26			
MAR	02	10		E43 12		I 43 18			
MAR	02	12		CI46 20.5					
MAR	02	13		DI13 00.8					
MAR	02	13		I17 17.9		E 17 22			
MAR	02	14		E42 48					
MAR	02	14				I 51 55			
MAR	02	15		CI32 18.7					
MAR	02	15		E43 02		I 43 05			
MAR	02	16		I44 44.2		I 44 49			
MAR	02	16		I54 00.8		I 54 05			
MAR	02	20		I10 40.9		I 10 44			
MAR	02	20		I43 59.2					
MAR	02	21		E26 01					
MAR	02	21		I42 08.3					
MAR	02	21		DI48 12.7		PP 51 33			1.1
MAR	02	22		E02 13					
MAR	02	22		I05 20.6	09 41				
MAR	02	23		E50 12		I 50 19			
MAR	02	23		I53 17.7					
MAR	03	01		I22 03.8					
MAR	03	02		I03 10.2					
MAR	03	02		E55 50					
MAR	03	03		I36 42.5		I 36 45			
MAR	03	04		E42 46					
MAR	03	06		E12 36					
MAR	03	06		DI22 26.4		PP 23 58			1.6
MAR	03	10		I53 33.9					

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YEAR	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
MAR	03	11		E56 07			E 56 09		
MAR	03	14		DI07 37.8					1.1
MAR	03	14		CI19 21.3					1.4
MAR	03	14		DI58 43.0			I 58 48		1.9
MAR	03	15		E32 57			E 33 17		
MAR	03	16		CI58 17.0					2.2
MAR	03	19		DI24 36.2					1.6
MAR	03	20		CI14 56.1					1.5
MAR	03	21		I31 57.1			I 32 28		
MAR	04	00					E 52 37	E 52 55	
MAR	04	01		I53 50.5					
MAR	04	01		E58 58			I 59 03		
MAR	04	02		I00 47.7					1.4
MAR	04	02		DI12 31.2					1.6
MAR	04	06		CI41 13.7					1.5
MAR	04	08		I43 58.2					
MAR	04	23		E27 47					
MAR	05	06		DI26 08.2			I 26 14	I 26 23	PP 28 41
MAR	05	06		CI37 12.3			*PP 37 23		1.4
MAR	05	13		CI53 40.5			*PP 53 52		2.1
MAR	05	14					I 49 37		
MAR	05	17		DI28 38.1			I 28 42		1.4
MAR	05	18		CI10 09.5			*PP 10 19		2.1
MAR	05	19					I 56 32	I 56 35	
MAR	05	21		E19 54			I 20 00		
MAR	05	22		I16 45.1					1.2
MAR	05	23		DI40 12.1			*PP 40 24		1.7
MAR	06	04		CI26 28.4			I 26 34		1.2
MAR	06	06		DI03 52.5			*PP 04 03		1.3
MAR	06	08		CI30 27.1			*PP 30 37		2.0
MAR	06	10		DI08 45.7					1.1
MAR	06	13		DI52 14.3			*PP 52 26		
MAR	06	14		CI46 53.2					
MAR	06	16					I 21 43		
MAR	06	17		DI21 19.8			*PP 21 30		
MAR	06	18		E36 39					
MAR	06	20		DI36 18.8	46 36		PCP 36 24		
MAR	07	02		CI02 54.6			PKP2 03 02	PP 06 30	
MAR	07	03		E02 21					
MAR	07	07		E52 03					
MAR	07	11		CI15 38.9			I 15 47	I 15 55	1.7
MAR	09	10		CI49 46.6			I 56 37		1.1
MAR	09	18		CI02 50.7	06 59				3.1
MAR	09	18		I42 50.2			PP 43 33		
MAR	09	19		E51 56					
MAR	09	21		I25 04.9					
MAR	09	21		DI56 09.9					1.1
MAR	09	22		CI40 11.8			I 40 16		
MAR	10	01		E41 06					
MAR	10	04		E08 13			E 14 25		
MAR	10	05		CI51 59.3			I 52 16		
MAR	10	14					E 09 34		
MAR	10	15					E 19 56	I 20 27	I 20 35
MAR	10	16		CI12 01.5			SKP 14 29		1.7
MAR	10	21		DI55 15.8					1.1

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YEAR 1965	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
MAR 10	22			I 03 29.2					1.1
MAR 11	08			C153 17.3	53 28	I 53 24	I 53 29		1.7
MAR 11	12			C118 32.7					1.3
MAR 11	14					E 14 22			
MAR 13	04			I13 40.1					
MAR 13	04			C114 34.6		I 14 38			
MAR 13	07			D144 16.9		*PP 44 28			1.9
MAR 13	09			I15 14.3					
MAR 13	14			E13 02					
MAR 13	15			E37 07					
MAR 13	15			E47 17					
MAR 14	16			C101 01.4					
MAR 16	10			C158 09.0					1.1
MAR 16	12					I 44 11	I 44 38		
MAR 16	16			C157 41.8		*PP 57 52			1.8
MAR 16	18			I35 12.1		*PP 35 23			
MAR 17	00			D143 30.2					1.4
MAR 17	07			E27 06		I 27 13			
MAR 17	13			E22 02					2.0
MAR 17	14			C138 05.1		*PP 38 12			
MAR 18	06			D141 12.7					1.2
MAR 19	07			C146 19.6					
MAR 19	12					I 49 52	I 50 03		
MAR 21	01			I31 59.6		*PP 32 09			
MAR 21	11				33 03	E 22 46	I 25 48	PP 26 58	
MAR 21	12			D153 00.5					1.3
MAR 21	15			I17 35.6					
MAR 22	03			D104 05.2	11 18	I 04 07	PP 06 52	PKS 07 38	1.4
MAR 22	03			I27 24.6		I 27 28			
MAR 22	11				38 31	SG 39 12			
MAR 22	22			I13 21.7					
MAR 22	23			E14 59					
MAR 23	12			D156 03.0		*PP 56 14			1.7
MAR 23	13			D146 51.8					
MAR 23	14					I 30 23			
MAR 24	00			E13 24		PP 16 05	PKS 16 56		
MAR 24	07			E04 57		E 05 14			
MAR 24	07			I18 15.3					
MAR 24	08			I18 33.0					
MAR 24	08					I 21 47			
MAR 24	18			D143 21.1					1.7
MAR 24	22			E55 32					
MAR 25	05			D132 10.4					1.0
MAR 25	07			I36 11.8		PP 39 19			
MAR 25	09			C104 09.4		*PP 04 18			1.5
MAR 25	09			I40 52.7		*PP 41 03			
MAR 26	00			I39 13.0		I 39 14			
MAR 26	15			D145 43.7		I 45 47			
MAR 26	16			D123 42.1					1.3
MAR 26	20			I34 51.6		I 34 54			
MAR 28	13			C133 25.6	42 03	*PP 33 35			2.1
MAR 28	16			D151 45.0	58 21	*PPKP 52 07	I 52 35	PP 52 50	1.7
MAR 29	10			C159 03.7	68 29	*PP 59 14	I 59 19	PP 61 42	2.5
MAR 29	14			E43 39					
MAR 30	00			D116 52.8					1.8

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YEAR 1965	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
MAR 30	02			D138 14.5	47 28	PKPPKP 66 16	I 96 39	I 97 15	
MAR 30	04			E44 00		*PP 44 09			
MAR 30	06			I36 12.3		*PP 36 23			
MAR 30	07			E22 05					
MAR 30	12			I21 35.0					
MAR 30	12			I46 01.4					
MAR 30	16			I11 00.0					
MAR 30	16			C121 28.5		I 11 13			
MAR 30	19			I12 25.1		*PP 21 42			1.5
MAR 31	08			I32 31.0					
MAR 31	09			C152 25.1	56 23				
MAR 31	10			D157 19.4		*PP 57 29	I 57 36		1.8
MAR 31	12			D106 05.5		*PP 06 27			1.4
MAR 31	12					E 30 42			
MAR 31	15			C131 15.2					1.1
MAR 31	16			E00 19					
MAR 31	19			I59 42.4		*PP 59 51			
MAR 31	20			C113 20.1					
MAR 31	22			I43 43.8		I 43 51			
APR 01	01			E17 35					
APR 01	12			E34 46					
APR 01	16					I 47 50	I 47 56		
APR 02	15			I54 38.5	55 53	I 55 17	I 56 04	I 56 19	
APR 02	16			C102 59.2		I 03 02			
APR 02	22			C134 41.6		I 34 51	PP 36 19	PCP 36 31	1.6
APR 03	02			I48 57.0					1.4
APR 03	03					PKP2 49 08			
APR 03	08			I59 12.3		I 59 24			
APR 03	09					E 52 45			
APR 03	11			I33 21.0	43 58	SS 49 32			
APR 03	11			I41 45.8		I 41 53			
APR 03	14			C135 47.3					1.4
APR 03	18			I51 18.7					1.4
APR 04	13			I41 36.3		I 41 39	*PP 41 46		
APR 04	15			C155 52.1					1.7
APR 04	16			C101 26.8					1.3
APR 04	16			D112 27.9		I 12 38			1.5
APR 04	16			D129 49.3		I 29 59			1.4
APR 04	20			C122 48.2					
APR 05	03			D117 59.8	22 11	I 18 04	PP 18 36	PPP 18 49	
APR 05	14			C103 26.2	12 42	I 03 42			2.2
APR 05	14			E53 16		I 53 38			
APR 05	18			E14 56					
APR 06	03			D129 58.8					1.4
APR 06	04			D138 55.5		I 39 04			1.5
APR 06	05			C143 41.3		I 43 45	I 43 59	PP 46 32	1.7
APR 06	09			E56 16					
APR 06	12					E 45 48			
APR 06	13			D130 05.5					1.7
APR 06	13			C141 55.9					1.5
APR 06	17			E46 26					
APR 08	13			D154 48.1	63 52	I 54 52			
APR 08	14			D142 08.3					
APR 09	11					E 05 21	PKP2 05 30	I 05 43	1.6
APR 10	00			D102 34.9	07 05	I 02 36	*PP 02 54	SS 08 12	

YEAR	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
MAY 31	02			113		I 13 54			
MAY 31	08			D149		E 49 51			1.7
JUN 01	04			D143		PCP 44 17			
JUN 01	08			D102		I 02 31	PP 04 24		1.5
JUN 01	11					I 06 28			
JUN 02	05			C131		I 31 35	PP 34 55		
JUN 02	08					I 51 08			
JUN 02	11					I 48 20	I 48 25		
JUN 02	12			C109		I 11 01			1.3
JUN 02	13			C149		I 50 59			1.5
JUN 02	15			104		I 04 13	SKP 06 48		
JUN 02	15			116		SKP 19 25			
JUN 02	23			C150		*PP 50 37			
JUN 03	07			C154		I 54 42			1.9
JUN 03	11			D108		*PP 08 26			1.4
JUN 03	14			154		I 54 05			
JUN 03	15					I 38 19			
JUN 03	18			C136					
JUN 03	20			D141					1.1
JUN 04	00			E57					
JUN 04	15			D113		*PP 13 34			1.2
JUN 04	15			D146		I 46 23			1.9
JUN 06	21			D148					1.2
JUN 07	06			C136		I 36 46			1.2
JUN 08	23			D135					1.3
JUN 09	12			E34		I 34 19			
JUN 09	13			C137		*PP 37 57			1.4
JUN 09	16			C114					1.9
JUN 09	18					I 01 34	I 01 49		
JUN 09	19					I 37 08			
JUN 10	05			D157		I 57 11	*PP 57 26	PCP 58 44	1.3
JUN 10	07			105					
JUN 10	15			E29					
JUN 10	20			C139					1.4
JUN 11	02			C148		*PP 48 43			2.0
JUN 11	03			144		I 45 00	*PP 45 14	PCP 45 18	1.7
JUN 11	03			D155					1.5
JUN 11	04			E04					
JUN 11	04			D126					1.3
JUN 11	04			E56		I 56 10	I 56 17		
JUN 11	06			108		*PP 08 42			
JUN 11	07			C122		*PP 22 37			1.7
JUN 11	07			D139		*PP 39 15			
JUN 11	08			152		I 52 23	*PP 52 34		
JUN 11	10			E27					
JUN 11	10			131					1.3
JUN 11	10			D150					1.6
JUN 11	10			D152		I 52 40			1.4
JUN 11	12			111		*PP 11 31			
JUN 11	12			E40		I 40 44			
JUN 12	00			E32					
JUN 12	05			D139		*PP 40 11			1.5
JUN 12	05			D152		I 52 18	*PP 52 33		1.8
JUN 12	06			D114					1.5
JUN 12	06			D157					

YEAR	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
JUN 12	18			C157		I 57 04			
JUN 12	19					PP 08 07			
JUN 13	02			D132		I 32 15	*PP 32 26		1.6
JUN 13	07			117		*PP 17 45			
JUN 13	20			D107		I 07 18	PP 08 09	SS 12 49	2.1
JUN 14	09			E51					
JUN 14	13			126		I 26 50			1.4
JUN 14	16			C157		*PP 57 59			1.4
JUN 15	04			157		PCP 57 49			1.9
JUN 15	08			109					
JUN 15	13			111		I 11 43			
JUN 15	14			130		*PP 30 25			
JUN 15	19			C113					1.3
JUN 16	06					I 27 22	I 27 31	I 27 38	
JUN 17	03			103					1.7
JUN 17	03			D152		PP 53 58			1.3
JUN 17	11			D111		PKP2 11 44			1.4
JUN 17	14					I 20 25			
JUN 17	19			D116					1.4
JUN 17	20			124		I 24 42			
JUN 18	01			C128					1.1
JUN 18	08			128		*PP 28 33			1.3
JUN 18	13			157					1.2
JUN 19	06			C149		I 49 15	*PP 49 21	PCP 49 37	1.8
JUN 19	13			C100					1.2
JUN 20	02			C108					1.5
JUN 21	00			C129		I 29 49	I 31 08	SS 39 20	2.0
JUN 21	01			E38					
JUN 22	05			158					
JUN 23	00			D101		I 01 31	PP 05 20		1.5
JUN 23	11			D119					1.3
JUN 23	11			C119		*PP 19 57			2.4
JUN 23	12			D133		*PP 34 00			1.6
JUN 23	14			133					
JUN 24	07			158		I 58 53			1.3
JUN 24	14			D127		*PPKP 28 20			1.8
JUN 27	11			D118					1.6
JUN 27	11					I 48 35			
JUN 29	15			D106		I 06 29			1.3
JUN 30	08			C144		*PP 44 41	PCP 44 59		2.1
JUN 30	12			C147					1.6
JUN 30	17			D121					1.4
JUL 01	17			152		*PP 52 43			1.4
JUL 02	20			C130		I 30 49			1.7
JUL 02	21			C109		PP 12 05	PPP 14 43	PKPPKP 37 55	
JUL 03	02			C127		*PP 27 41	PP 28 25		
JUL 03	11			E37		I 37 32			
JUL 05	08			C137		I 37 21	*PP 37 30	PP 38 00	2.0
JUL 06	03			D123		PP 24 32	SS 28 52	E 31 22	2.4
JUL 06	04			C119		I 19 58	PCP 20 25		1.9
JUL 06	05			D109					1.6
JUL 06	13			E29					
JUL 06	15			C139		*PP 39 36			1.5
JUL 06	17			143		I 44 00			
JUL 06	18			E54		I 55 44	PP 56 05	PKKP 64 55	

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YEAR 1965	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
JUL 07	12				I 52 51			
JUL 07	13				I 48 53			
JUL 07	14	DI33	05.8					1.3
JUL 07	21	DI50	31.2		I 50 46			1.5
JUL 07	23	CI46	30.1		*PP 46 41			1.6
JUL 08	00	I16	57.3		I 17 03			
JUL 08	11				I 10 25			
JUL 10	08	CI15	25.2					1.1
JUL 12	09	CI57	12.6					1.5
JUL 12	12	I37	16.7					
JUL 14	10				I 12 17	I 12 25		
JUL 14	11	E44	30					
JUL 14	12	DI27	35.9					1.2
JUL 14	14				I 31 43			
JUL 14	17	I08	43.4		I 09 03			
JUL 14	18	DI06	53.9					1.7
JUL 15	06			S*	20 07	I 20 18	SG 20 28	
JUL 15	14	E25	48					
JUL 15	18	DI45	52.1		I 46 03	PP 49 55		
JUL 17	13	I18	51.1		I 18 57			
JUL 17	18	E32	18					
JUL 18	10	E10	54					
JUL 18	13	I51	25.7		*PPKP 51 37			
JUL 18	22	DI26	17.2					1.5
JUL 19	00	E15	07					
JUL 19	04	E25	14					
JUL 19	07	E45	48					
JUL 19	09	E19	51					
JUL 19	09	E22	19		E 22 27			
JUL 20	00	CI12	37.4		E 14 32			1.2
JUL 20	01	E05	04					
JUL 20	07	DI51	26.0		I 52 08	PP 53 13		1.6
JUL 20	11	I30	52.7					
JUL 20	13	DI31	49.3					1.3
JUL 20	14	I12	24.1					
JUL 21	03	E11	04					
JUL 21	18	CI03	18.9		*PP 03 29	PCP 03 48		1.9
JUL 22	01	CI29	56.4					1.4
JUL 23	17	I11	35.7					
JUL 23	20	CI31	07.1	31 44	P* 31 14	PG 31 19	S* 31 52	1.1
JUL 23	21	E38	31					
JUL 24	18	DI05	37.3					
JUL 25	03	E53	20	63 50	I 53 23			1.7
JUL 25	13	DI44	35.9		*PP 44 45			2.0
JUL 25	21	CI57	47.4		*PP 57 59			
JUL 25	22	DI02	49.7					1.4
JUL 26	16	CI29	24.8					
JUL 27	11	CI31	31.7		*PP 31 43			1.9
JUL 28	22	E42	08	52 25				
JUL 29	08	CI40	31.5	49 46	*PP 40 37	PKPPKP 68 44		
JUL 29	14				I 08 45			
JUL 31	14	DI45	11.6					1.8
JUL 31	17	DI17	53.8					1.4
JUL 31	21	DI54	51.6		I 55 08			1.4
AUG 01	15	I13	11.0		I 13 24	PCP 13 48		1.6

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YEAR 1965	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
AUG 01	16	DI51	02.6		I 51 08			
AUG 01	20	I19	19.9		*PP 19 29			
AUG 02	00	E04	19		I 04 33			
AUG 02	13	E39	55					
AUG 02	16	E55	35		PKP2 40 50	I 41 01	PP 44 45	
AUG 03	07	DI45	09.8					
AUG 04	01	I18	04.8					
AUG 04	11				*PP 18 31			
AUG 05	00	DI26	34.7		I 35 19	I 35 29		
AUG 05	12				PP 28 10	PKKP 37 43		
AUG 05	12				I 10 41			
AUG 05	12	E38	19		I 38 23	I 38 27		
AUG 06	02	DI09	13.3					
AUG 07	22	I44	22.1		I 44 40	I 44 46		
AUG 08	05	CI30	19.9					
AUG 08	13	CI00	24.1		*PP 00 37			1.5
AUG 08	15							
AUG 10	11	CI26	13.0		E 02 16	I 02 24		
AUG 10	11							
AUG 11	04	I00	02.0	07 50	I 28 29			1.3
AUG 11	12	E42	41		PKP 00 14	PP 02 35	PKS 03 44	
AUG 11	15							
AUG 11	18	CI39	43.5		I 14 58			
AUG 11	20	E11	39		E 39 54			
AUG 11	20	E33	15		PKP 11 50	PP 14 13	PKS 15 14	
AUG 11	21				PKP 33 21	PKS 36 41	I 36 46	
AUG 11	21				PKS 17 57			
AUG 11	22	E50	55		PKP 51 03	PP 53 40	PKS 54 47	
AUG 12	01	E44	31		E 44 45			
AUG 12	03	I41	54.7		E 42 08			
AUG 12	05	E10	05					
AUG 12	08	I20	48.1		PKP 20 59	PP 23 28	PKS 24 27	
AUG 12	13	I15	02.9					
AUG 12	13				PP 27 18			
AUG 12	14				I 58 13			
AUG 12	18	E24	08		I 03 27			
AUG 13	02	E26	04		PKP 24 22	PKS 27 37		
AUG 13	05							
AUG 13	11				PKS 03 36			
AUG 13	11	E41	30		I 14 39			
AUG 13	12	E59	21		PKP 44 12	PKS 47 40		
AUG 14	00	I51	50.9		E 59 47	PP 61 56	PKS 63 12	1.5
AUG 14	04	I52	48.4					
AUG 14	05							
AUG 14	11				I 52 23			
AUG 14	13	E37	24		PKS 30 33			
AUG 14	17	I22	44.3					1.3
AUG 15	06	CI07	43.9					
AUG 15	20				E 03 17			1.1
AUG 16	12	I29	22.7					
AUG 16	12	E32	06					
AUG 16	12	CI46	56.8	55 36	*PP 47 05			2.4
AUG 16	15	CI27	06.9		P* 27 12	PG 27 17	I 27 28	1.1
AUG 17	08	I56	39.8					
AUG 17	10	E31	29					
AUG 17	10	CI47	30.9	57 51	E 31 42			
AUG 17	13	E05	05		*PP 47 38			1.4

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YEAR	P/PKP			S/SKS		SUPP. 1		SUPP. 2		SUPP. 3		LOG		
1965	MTH	DY	HR	M	S	M	S	PHASE	M	S	PHASE	M	S	A/T
OCT 21	16			105	06.9									1.8
OCT 23	06			C111	41.2			I 11 56						
OCT 24	12			DE20	10									1.4
OCT 24	18			C126	01.3			I 26 28						
OCT 24	18			156	49.7									
OCT 25	00			127	18.4			I 27 33						
OCT 25	14			D126	10.5									
OCT 25	22			C145	19.3	54 19		PCP 45 36			PP 47 53		PPP 49 40	1.5
OCT 28	01			C157	42.5									
OCT 28	04			132	12.3									
OCT 29	21			DE11	04									
NOV 02	03			D132	06.8			I 32 10						
NOV 02	13							SG 01 29						2.1
NOV 03	01			D151	17.7	60 54		I 51 28			SKKS 61 17		S 61 34	1.3
NOV 08	02			D105	38.7			I 05 48						
NOV 09	11			149	14.0									1.3
NOV 10	13			119	20.9									
NOV 11	23			109	35.9			I 09 56						
NOV 12	18			C104	38.3	14 48								
NOV 12	19			103	20.0									
NOV 13	04			142	27.3	49 19		PP 44 11			PPP 44 51		SCS 52 36	2.6
NOV 13	06			D123	22.4									1.7
NOV 13	10			154	18.9									
NOV 14	06			C105	56.8			I 06 10						
NOV 14	08			DE21	10	21 34		E 21 14			SG 21 37			
NOV 15	11			C129	21.2	38 56		PCP 30 00			PPP 33 20			1.6
NOV 16	01			C111	50.3			*PP 12 42			PP 13 34		PPP 14 13	2.2
NOV 16	15			132	54.0	39 29		I 33 05						
NOV 16	15			149	04.4									
NOV 16	17			117	40.8									
NOV 16	23			146	01.5									1.5
NOV 18	20			118	46.2			SKP 21 52						
NOV 18	22			C108	49.8	17 24		PCP 09 38						2.7
NOV 18	22			C119	42.9			I 19 55						
NOV 19	07			D125	30.7			I 25 47						1.7
NOV 19	07			D127	50.9									
NOV 20	09			104	37.8			I 04 51						
NOV 21	05			105	26.4									
NOV 22	20			C136	33.4	45 39		I 36 43			PCP 36 54		PP 39 12	2.3
NOV 22	20			D150	55.8									1.6
NOV 23	02			C128	51.5			I 29 04			PCP 29 22		PP 31 29	1.5
NOV 25	16			155	51.8									
NOV 28	05			C131	32.9	35 56		*PP 32 01			PP 32 29		PPP 32 45	
NOV 28	13							I 11 05						
NOV 29	09			111	02.8									
DEC 02	06			C109	47.0			I 10 01						1.5
DEC 02	06			D151	19.1									
DEC 03	21			125	44.6			I 25 54			PP 27 29		PPP 27 56	1.6
DEC 04	02			122	57.5			PCP 23 15						1.8
DEC 05	18			C125	43.4			I 25 49			I 25 56			2.1
DEC 06	01			C133	43.8									
DEC 06	08			D105	22.8									
DEC 06	11			D147	34.0	58 12		*PP 47 48			PPP 52 24			
DEC 06	22			100	42.5									
DEC 08	18			124	59.7			I 25 10						

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YEAR	P/PKP			S/SKS		SUPP. 1		SUPP. 2		SUPP. 3		LOG		
1965	MTH	DY	HR	M	S	M	S	PHASE	M	S	PHASE	M	S	A/T
DEC 09	06			120	18.3			31 06			I 60 42		PP 83 44	2.2
DEC 11	22			E59	36						I 59 44			
DEC 12	07			140	35.4						I 40 46			
DEC 12	10			135	07.5									
DEC 12	19			C135	10.0									1.6
DEC 13	03			132	39.0									
DEC 13	05			109	31.5									1.4
DEC 13	05			C156	30.9									
DEC 13	11			C103	24.2			12 46			PCP 03 36			
DEC 13	14			157	25.8			66 51						
DEC 13	23			104	32.2									
DEC 14	17			139	16.9									
DEC 14	20			114	45.9									
DEC 15	04			C154	41.0						PCP 55 04			
DEC 15	23			117	56.6			28 18			I 18 17		PP 21 03	
DEC 16	19			126	35.9									1.6
DEC 16	23			125	01.3						SKP 27 49			
DEC 17	21			138	29.2									1.7
DEC 20	00			C113	04.1			17 04			PP 13 42		PPP 14 01	2.1
DEC 20	00			135	43.2									
DEC 21	00			142	37.5									
DEC 21	08			153	29.8						I 53 40			1.5
DEC 21	10			E02	22			03 50						
DEC 21	10			C157	39.2						I 57 46			
DEC 22	00			139	34.5						I 39 45			
DEC 22	03			132	52.6									
DEC 22	07			138	03.9									
DEC 22	19			C151	36.3			59 55			*PP 51 50		PCP 52 18	1.4
DEC 23	15			133	10.7						I 33 22		PP 53 51	2.4
DEC 23	20			C157	28.9			65 32			*PP 57 37			1.8
DEC 25	03			E16	05						SKP 19 23			2.0
DEC 25	12			C120	22.0						I 20 29			
DEC 25	17			C151	29.5									1.4
DEC 25	19			138	56.2									
DEC 26	04			111	48.1			18 37						
DEC 26	18			C124	13.0									
DEC 28	20			C144	53.8			55 14			I 45 33		PP 47 58	1.8
DEC 30	02			C117	19.7						PCP 17 54			