UNIVERSITETET I BERGEN JORDSKJELVSTASJONEN (Seismological Observatory)

Seismological Bulletin Kongsberg, Norway 1966-1967

HARALD GAMMELSÆTER and ANDERS SØRNES

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HARALD GAMMELSÆTER and ANDERS SØRNES

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 (Z, NS and EW) short and longperiod system as follows:

	Perio	d sec	Magnification	Damp.
Instrument	Tg	Ts		ratio
SP Benioff	0.75	1	50,000	17:1
LP Sprengnether	100	15	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 (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.

6		P/	PKP	SI	SKS	SUPP.	1		SUPP	. 2		SHIP	D .	2	1.06	PAGE * * * *
DY	HR	M	S	1	1 5	PHASE	M	S	PHASE	M	S	PHAS	E	M S	A/T	REMARKS
* *	* *	* *	* * *	* *	* * *	* * * *				* *	* *	* * *	*	* * *	* * *	* * * * *
15	05					F				42	40					
15	12	E10	05			0.000	13	-	00.000	73	7,					
15	18	113	03.5													
15	19					1	29	36								
16	09	C122	41.7			*PP	22	49	PCP	23	13				2.0	
16	12			37	7 .06					-	01					
16	18	D157	55.6	. 93												
		C155	15.2						60	21	10				1.6	
•						-6	31	00	30	31	10					
17															1.3	
															1.3	
															1.7	
18	12		-			I	51	36								
		F24	22	27	7 20				000	25	0.0		20	24		
18					39	PP	24	56	PPP	25	08	55	28	24	1.1	
19															1.2	
20	13					I	20	47								
20	14	0156	54.0													
20																
21	12					1	52	05								
22	04	114	43.7													
22	07	E48	54													
22																
		C137	39.4	46	20				PCP	38	12	PP	40	10		
23		D123	49.8			1	23	07							1.2	
															12924	
23																
				30	00	PCP	22	25	DD	22	4.5					
24	15				, 0,	, , ,	33	23		23	45					
27	19	150	08.4			*PP	50	23								
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		ככוט	09.4						Dre	05	46	-	00	07	1.4	
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31	04	E35	43													
01	06	E05	46													
01	16					PG	09	46	SG	09	50					
01															1.5	
						I	28	50	*PP	28	53	PP	30	38	1.3	
03	12		0,9													
03	14					I	05	21	I	05	51					
		E43	45			CHD	01	10								
05		D106	38.8	10	40				,	14	50				1.6	
05											-					
0-						0.000			200		-	100	1	111		
					45							PP	26	16	2.2	
06							20	24	*PP	21	13				2.5	
07	04	CI35	04.4	42	09				1	35	09	*PP	35	15	1.5	
07	05	C130	37.4			*PP	30	44								
07	05	139	06.2			,	30	10	,	30	15					
07					31							PP	17	23		
08	12								1 26 0					77849		
08			45.1													
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	6 N * 145155 16616617 1771718 18 1881890 22021222 2222223 234244247 2888231 00100203 0044050 005 00506707 07808	5	6	6	6	P/PKP S/SKS DY HR M S M S ** * * * * * * * * * * * * * * * * *	PyPKP S/SKS SUPP. DY HR M S M S PHASE ** * * * * * * * * * * * * * * * * *	Pyper	Pyrkp	P/PKP	P/PKP S/SKS SUPP. 1 SUPP. 2	P/PKP	Supply Sysks Supply Su	Supply Sysks Supply Su	PyPKP	DY HR M S M S M S PHASE M S PHASE M S PHASE M S PHASE M S ATT 14 12

* * * 1966 MTH DY * * * FEB 09	HR ##	P/ M	* * * * PKP S * * * *	\$ # # S/ M # #								N - 1966 * * * * * SUPP. PHASE * * * *	* * * 3 M S * * *	LOG A/T * *	PAGE 2
FEB 09 FEB 10	23	E54 E44			04	Si	55	5 06	SG	55	09			1.3	
FEB 10 FEB 10	12		19.8	44	58	*PP	34	35	PP	38	03	5 45	31	1.5	
FEB 10	20	124	21.5										100		
FEB 11	06					E	54	32							
FEB 11 FEB 12			06.0											1.4	
FEB 13			27.1			pp	06	53						2.7	
FEB 13	10	151	23.4											1.3	
FEB 13 FEB 14			48.7			I	55	56						1.8	
FEB 15	10	116	01.6			. 1	16	06							
FEB 15	22	133	16.6												
FEB 15	22	D152	39.8					53						1.4	
FEB 16 FEB 16	03	137	38.0	44	51	PKP	37	45	1	37	55	PKS 41	10		
FEB 16	12	C109	13.0											1.2	
FEB 17	12			13	04	PP	06	48	PS	16	18				
FEB 17	13							11	SG	38	23				
FEB 17 FEB 17	13	C139	02.7			1	59	52						1.7	
FEB 18 FEB 18			33.8											1.5	
	05	C139	27.1											1.1	
FEB 18 FEB 19			38.0			I	13	43	PP	16	08			1.4	
FEB 19	12	E59	06											1.1	
FEB 20 FEB 20		D126 123												1.7	
FEB 21		CI30												1.6	
FEB 21 FEB 22	20	137	30.6					37							
FEB 22	14							15	PS SG	33	18				
FEB 24	05	C150	56.0											1.6	
FEB 24 FEB 25		103	16.0											1.1	
FEB 25	12							49							
FEB 26 FEB 26	00	DI44	42.1			*PP	44	53							
						E	48	04	SG	48	09				
FEB 27 FEB 27		I45 DI41												1.3	
FEB 27	20	D157	25.0					39						1.6	
FEB 28 FEB 28		DI12 E47				I	13	06	PCP	13	17	PP 15	28	2.3	
MAR 01		E40													
MAR 01	16	D103	57.1											1.3	
MAR 02 MAR 02		142 C102		47	25	P	42	51	I	43	10	I 50	32		
MAR 03		DI36		45	26	PCP	36	54	I	50	16			1.5	
MAR 03	12	CI13	36.4												
MAR 03	14		-0.			1			PERSONAL PROPERTY.				3 8 251	1.3	
MAR 04 MAR 05	13	E18	49			PG PKP2			SG	16	57				
MAR 05	04	E59	51												
MAR 05	21	E05		13	46	600									
MAR 06	02		20.4	32	50	P	20	20	Р	25	24	PP 27	17		
MAR 06	18	121	23.7			I	21	27							
MAR 07	01	122	05.1	26	53	I	22	09	I	22	15				

196		* *	P/	KONO * * * PKP S	* *	RG (I	* * * *	*	* *	* * *	* *	*	IN - 1966 * * * * * * * SUPP• 3 PHASE M S		PAGE 3
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	07	21		00.9		45	1	40	06	PP	42	27	PCS 44 17		
	07	22		40.1											
	08	01		55.8	65	31			13			16	I 36 21	46 50	
MAK	00	05	C154	25.0	65	21		21	42	PP	59	10		1.1	
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MAR			C137	42.6			PP							1.3	
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MAR		14		29.8											
MAR				26.9										1.2	
MAR		11		07.4											
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MAK	10	12	232	24											
MAR	17	12					. 1	00	33						
MAR	17	13						06		SG	06	29	I 06 32		
MAR		16			15	12	*PPKP	11	29	SKP	11	50	I 15 58		
MAR				07.2										1.3	
MAR	19	08	123	02.1										1.2	
MAR	20	01	C153	01.4	61	14		53	00	PCP	= 2		00 55 04		
MAR				27.4	01	14	PN					57	PP 55 24	2.4	
MAR			E59				- "	20	71	"	20	,,		2.00	
MAR	20	23	21770				1	53	04						
MAR	21	01	C140	52.3			I	40	56					1.6	
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MAR			C134		20		48.			-				1.1	
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MAR		14		33.6										1.4	
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MAR			D128											1.3	
MAR		02	130	23.2				59	42						
HAR	27	0,9					1	29	42						
MAR		12			59	43									
MAR		13	120				PG	26	39	SG	26	41			
MAR		13	E35	11	35	43	44	-							
MAR		14	E44	5.5	4.7	22		00							
MAR	30	14	E46	25	47	22	SG	41	21						
MAR	30	21					1	00	41						
MAR	31		C145	56.8				47						1.9	
APR			E20												
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APR	03	04	C155	22.0	65	03	PCP	55	35	PP	58	03			
APR	03	11	141	19.5	45	11	*PP	41	20	00	42	04	F 47 FF		
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196	6		P/	PKP	SISK	S SLIPP	. 1	* *	SLIDD			CUDD 2	100	* * * * * * ;	*
MTH	DY	HR	N	1 5	M	S PHASE	M	c	DHASE			DUACE M C	LUG	DENIADE	
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	05			53.4									1.3		
APR	05			03.2									1.00		
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APR	06	22	E06	29			1 06	36							
	06	22	C139	07.0 48.8 40.7		*PI			PCP	39	47		1.8		
	07	03	D130	48.8				52							
	07	13	0154	40.7			1 54	48	*PP	54	56		1.5		
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	08		C157	31.2	66 1			37			50				
	08	05	D135	31.6	00 1	,	, ,,	31	PCP	21	20	I 58 12	2.2		
	08	05	C157	57.5	61 5	7 *01	5.9	03	,	50	08		1.3		
	08	09	129	34.2	01 /	*PI	20	43					1.8		
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	08	20	D123	16.4			23	33					1.0		
	08	22	121	24.2	29 5		21						1.0		
	08	23	157	44.8		*PF	57	56					1.00		
APR	09	02	DI46	50.2											
	09	02	DI54	36.7									1.6		
	09	15	108	31.8											
APR		20	CI19	05.1									1.5		
APR			E28												
APR	10	10	C150	41.8									1.6		
		1													
APR				44.8											
APR			E16			*PF	16	45							
APR				52.0									1.2		
APR				03.4	10.2	*PF	30	15					2.0		
AFR	11	25	CIIO	30.2	19 2	>							1.6		
APR	12	11				,	59	22							
APR		23	E56	28			57	41	PKKP	67	22				
APR				24.6		1999	'	7.	FARE	01	22		2.3		
APR				50	41 1	5 1	41	23					203		
APR	14	18	157	25.3	14 74			-							
APR			C114	14.9		PF	15	58	PPP	16	26	I 29 10	1.4		
APR	15	11					49	23	I	49	25		ad ha		
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APR	16	10	125	19.7											
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APR	16			31.5											
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APR	10	12								-					
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MAY	11	02	102	18.5		DD.	04	12							
MAY	11	13					57		SG	57	43				
MAY	11		D128	38.8	37 3	9 *PP			PCP			PP 31 22	1.9		
MAY		14	C137	41.9			37				1	51 22	1.7		
MAY		15	111	47.0											

1966 P/PKP	GSBERG (KON) SEISMI * * * * * * * * * S/SKS SUPP• 1 M S PHASE M * * * * * * * *	SUPP. 2	- 1966 PAGE 5 * * * * * * * * * * * * * * SUPP- 3 LOG PHASE M S A/T REMARKS * * * * * * * * * * * * * *
MAY 11 18 E11 32 MAY 11 21 150 37.1		0 47 I 51 01	1.8
MAY 12 20 E36 09 MAY 13 13 E17 35		23	
MAY 13 13 C141 35.8 MAY 14 17 E11 52 MAY 14 17 E15 59 MAY 14 20 E38 57 MAY 14 23 E05 58	I 39 *PP 06		1.8
MAY 16 17 E36 43 MAY 17 01 C110 51.0	66 16 E 57	38 SS 71 12	1.3
MAY 17 07 CI13 43.0 MAY 17 07 CI13 44.3 MAY 17 17 MAY 17 17 DI17 11.4		48 52 52 SG 15 56	1.0
MAY 18 00 DI18 08.5 MAY 18 07 CI44 25.1 MAY 19 07 117 15.1 MAY 19 12 116 10.5 MAY 19 14 108 03.5 MAY 20 09 F28 22	PCP 44 26 07 I 17	33 29 LQ 33 40 16	2.0
MAY 20 18 115 01.6 MAY 22 07 142 41.9 MAY 24 09 CI44 37.3 MAY 24 11 114 35.0 MAY 24 15 DI48 38.1	39 01 PP 32	27 PPP 34 19	
MAY 25 09 111 33.3 MAY 25 10 102 21.8 MAY 25 12 MAY 25 13 E40 53 MAY 25 15	02 48	56 31 I 49 34 43 PP 45 29	1.6 PPP 49 14
MAY 26 12 DI45 09.6 MAY 26 14 MAY 26 18 E49 13 MAY 26 21 DI00 38.0 MAY 26 23 CI31 30.5	E 49		1.8
MAY 27 19 MAY 27 20 111 35.7 MAY 28 00 116 04.1 MAY 29 07 MAY 29 14 C102 59.8	1 33	16 PP 19 08 36	1.7
MAY 31 07 153 59.2 MAY 31 22 E55 16 JUN 01 13 DI29 55.2 JUN 02 03 DI38 56.8	55 38 SG 55 48 05 *PP 39	44 11 PCP 39 23	1.1 2.3
JUN 02 15 CI41 34.6 JUN 02 16 JUN 03 14 CI11 35.8 JUN 03 15 128 58.1 JUN 04 05 CI19 50.5	I 41 9 I 24 3 I 11 4 I 29 0 *PP 20 3	32 I 24 33 46 PCP 11 53	2.0
JUN 04 06 C122 07.6	14.44	77 21 36	2.0

* * 1966 MTH D		*	P/1	KONO * * * PKP S	* * S/:	RG * *	* * *	SEI:	1	* *	TATION I * * * * SUPP PHASE	* *	* *	N - 196 * * * SUPP PHASE	*	3	LOG	*	* *	PAGE * *	6 * *
* *				* * *	* *	* 1	* * *	* *	* 1	* *	* * *	+ +	* *	* * *	*	4 4 4	A/T			ARKS	
JUN O		08						SKP													
JUN 0		14						E	44	10											
JUN 0		21	E57														1.1				
JUN O				28.2		36		*PP			PCP			PP	62	13	1.8				
JUN O	6	07	C154	12.3	60	31		*55	61	53	SS	63	44								
JUN O	4	21	100	28.6	11	02		DD	04	10	PPP	06	21		,,	40	, ,				
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JUN O		12		-	- 7				27			27			20	33					
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JUN 0	7	16						PG	13	50	SG	13	52				7				
		^-																			
JUN O		06	135	36.6					35												
JUN O		14						PG E	48		56	48	30								
JUN O		17						I		43											
JUN O	8	20	C107	12.2	16	04		*PP			PCP	07	34				2.0				
JUN 0		00	E24					*PP	24	28											
JUN O		02	123	58.8				_	2.												
JUN O		06							26		I	26	48								
JUN O		12							59		SG	59	46								
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JUN 0	9	22	E28	46	38	59															
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JUN 1		02		18.6	22	15		*PP	12	20											
JUN 1		10	E26		23	15		T	26	52		26	55	*PP	27	05					
JUN 1				08.0				*PP	10	18		10		PPP							
JUN 1				40.9				PCP	25	05						-	1.3				
JUN 1		19						PG	37	08	SG	37	12								
JUN 1		20	E32																		
JUN 1		01	E11	25	50	38		DD	55	22											
JUN 1			D135	21.4	,,	30			,,	32							1.1				
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JUN 1		12	E13																		
JUN 1		13	E22	45	25	25		I	22	58		25									
JUN 1		13						PG	48	18	SG	48	21								
JUN 1: JUN 1:		14		35.6	21	1.		PKP	27	10	*00*0	2.7		00	20	24					
JUN 1.	9	10	121	10.6	54	16		PKP	21	18	*PPKP	21	40	PP	29	34					
JUN 1	4	02	C152	05.0													1.1				
JUN 1	4	09		00.7	27	30		SS	27	40							1.3				
JUN 1	4	13							43		I	43	19	SG	43	22					
JUN 1	4	16	***	E0 =	3.0	2.		PP	57	36											
JUN 1	4	20	109	58.7	10	26											1.1				
JUN 1	4	21						F	10	13											
JUN 1		21	115	18.7				*PP			PP	18	29								
JUN 1	5	01	E15		25	45		PKP				20		PKKP	28	44					
JUN 1		01	E31																		
JUN 1	5	01	E51	51				PKP	51	56	PP	53	36								
JUN 1	5	02	122	06.3																	
JUN 1		06		44.3					24	40											
JUN 1		06	124						34												
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MTH DY HR M * * * * * * * * JUN 15 18 DI14	S M S * * * * *	PHASE M S	PHASE M C D	SUPP• 3 LOG HASE M S A/T REMARKS * * * * * * * * * * * * * *
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* * * * 1966	KONO * * * * * * P/PKP	GSBERG (KON) SEI * * * * * * * * * * * * * * * * * * *	SMIC S	TATION BUI	LLETIN - 1966 * * * * * * * * *	PAGE 8 * * * * * * * * * LOG A/T REMARKS * * * * * * * * *
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CT 23 CT 23 CT 23	00 108 46.5 07 CI20 10.6 07 E21 17		20 22				1.4
CT 23	12 DI26 08.1		40 05				

MTH	DY	HR	P	PKP	5/	SKS	KON) SEI * * * * SUPP• PHASE	1	* *	* * *	* 1	* * *	SUP	P.	* * *	LOG		* * *	
0C1	* * 24 25 25 27	15 10 13	157	* * * 7 14.9 5 47.5 2 52.6	* *	* *	* * * *	16	* * 5 06 3 32	* * *	* *	7 41	•••	* 09	* * *	1.5	* * *	MARK.	* *
	27			06.3	44	25	*pp					7 43		44		1.9			
OCT OCT	27 27 27 28 28		C120	41.2 3 03.5 14.5		44	*PP	58		PCF		23				1.4			
OCT OCT	28 29 29 29 29		D144 E08 144	23 20.6 26 03.2 00.9		51 21	PP	08	25 50 38 15	PP	48	55 51 22 22 22				2.4			
OCT OCT OCT NOV	30 30 30	02 12 17 22 12	142	08				05 45		PP SG	46		E	54		1.3			
NOV NOV NOV	03 03 03		C148	18 15.6			Ε	22	33 49 04		33								
NOV NOV NOV	03 04 04			26.7 05.8		23	I	31 35 04	57 45 57 16			01	PP	38					
NOV NOV NOV NOV	05 06 08		D102	38.9 56.2 29.3	15	48	I	08	19		08	27	I	08	33				
NOV NOV NOV NOV	09 09 10	12 15 17 11 13	117 E28		05 28		p*	05 59	38	PG SG	05		S*	05					
NOV NOV NOV NOV	11 11 11	16	DI14	03.6 16.6 06.3	51		I I *PP	00 27 42	45 20 15	PCP	42	27							
NOV NOV NOV	12 13 17 18	19 03 19 08	104 D102 D138	11.6	10	31	I PKP	04	17	PCP PP	06	53	PKS						
NOV NOV NOV NOV NOV	18 18 18 18	09 12 12 13 15 18					I I I	01 19 16 14	54 42 21 14		14								
NOV NOV NOV NOV	19 19 19	05 07 13	E51 C131 D118	33.3	54	31	I I PG	52 31 18	07 46 24	PP	19	06	PPP]	19 1	15				

KONGSBERG (KC	ON) SEISMIC STATION BULLETIN * * * * * * * * * * * * * * * * SUPP. 1 SUPP. 2	- 1966 PAGE 14
1966 P/PKP S/SKS MTH DY HR M S M S	SUPP. 1 SUPP. 2 PHASE M S PHASE M S	SUPP+ 3 LOG PHASE M S A/T REMARKS
*****	F # # # # # # # # # # # # # # # # #	PHASE M S A/T REMARKS * * * * * * * * * * * * * * * *
NOV 21 09	I 15 29	
NOV 21 11 NOV 21 11 E24 27	I 20 05 I 20 16 I 24 41	
NOV 21 12 CI30 34.4	I 30 48 I 30 58	
NOV 21 12	E 44 56 I 45 04	
NOV 22 06 CI40 01.1 48 19	I 40 54 *PP 41 38	PP 42 34
NOV 22 09 DI03 12.1 NOV 22 16 E05 55	*PP 06 04	
NOV 23 02 E38 22	PKP 38 27 PKS 41 47	PKS 42 13
NOV 23 14	PG 45 04 SG 45 07	
NOV 24 07 DI04 04.5	I 04 11	
NOV 24 07 CI51 42.5	I 51 48	
NOV 24 13 117 54.4 NOV 24 15 D117 51.6		
NOV 25 14	I 16 06	
NOV 26 03 E28 05		
NOV 27 04 CI20 42.5		
NOV 27 04 DI25 34.9		
NOV 27 20 DI17 21.8 20 55 NOV 29 12	I 17 28 PP 18 06 I 00 21	PPP 18 20
	1 00 21	
NOV 29 13 127 49.9 28 16	S* 28 17 SG 28 20	
DEC 01 19 DI07 23.7 DEC 02 03 E15 52		1.4
DEC 02 15	1 00 00	
DEC 06 12	PG 41 17 SG 41 25	
DEC 07 17 DI29 03.6	P 29 10 P 29 24	1.9
DEC 08 11 DI35 35.0	I 35 40	1.6
DEC 09 16 DI54 59.8 DEC 10 13 I18 55.2 29 14	I 55 08 *PP 19 15 PP 22 12	
DEC 10 17 18 04	SS 18 53	
DEC 11 02 E18 02		
DEC 11 19 E58 48		
DEC 11 19 E58 48 DEC 11 20	*PP 12 36	
DEC 12 13 DEC 13 12 DI29 04.9	PG 46 45 SG 46 47 *PP 29 31 *SP 29 43	PP 30 49 2.0
		PP 30 49 2.0
DEC 14 03 DI54 34.7 DEC 14 11 135 15.8	*PP 55 37 I 35 21	1.3
DEC 14 14 CI53 50.1	I 53 52 I 54 07	1 59 18 1.8
DEC 14 21 126 25.7 34 25 DEC 15 02 119 01.3	I 26 44 PP 27 46	PS 37 07
DEC 15 02 119 01.3	I 19 12	
DEC 15 13	E 00 15	
DEC 16 21 CI01 51.9 09 39 DEC 17 06 CI02 44.5	I 01 55 I 02 50	
DEC 18 05 CI05 24.7	PN 06 46 PP 06 54	1.9
DEC 19 23 DI03 39.4		1.5
DEC 20 00 CI35 43.1		1.5
DEC 20 01 107 08.1		
DEC 20 08 DEC 20 11	E 08 26 I 55 34	
DEC 20 12 E39 56	PKP 43 16 PP 44 07	
DEC 20 12	APPLOY SA DE DE L	
DEC 20 13 DEC 20 15 CI41 34.4	I 04 24 I 04 30 PCP 41 50 PP 44 10	2.2
DEC 20 18 DI52 35.4		
DEC 21 09 CI10 45.9 DEC 21 22 E20 34	I 10 52 PKP 10 57	SKP 14 06
DEC 22 12	I 44 25	
DEC 22 14 DEC 24 22 E38 56	PG 33 02 SG 33 04 I 39 14	
DEC 25 23 DI14 21.2		1.6
DEC 27 01 DI33 57.5	*PP 34 12	1.4

MTH DY HR M S * * * * * * * * * * * * * * * * * * *	S/SKS SUPP M S PHASE * * * * * *	• 1 M	s * *	PHASE	· 2		SUPP.	3	LOC S A/1 * * *	REMAR	KS
MTH DY HR M S * * * * * * * * * * * * DEC 27 12 DI09 42.5 DEC 27 14 DI06 49.6 DEC 28 08 E32 22	M S PHASE	* *	* *	PHASE * * *	M	1 5	DHACE	м .	S A/1	REMAR	KS * *
DEC 27 12 DI09 42.5 DEC 27 14 DI06 49.6 DEC 28 08 E32 22		* *	* *	* * *	* *	* *	* * * *	* * *	* * *	* * * *	* *
DEC 27 12 DI09 42.5 DEC 27 14 DI06 49.6 DEC 28 08 E32 22											
DEC 27 14 DI06 49.6 DEC 28 08 E32 22 DEC 29 12		1 06									
									1.4		
DEC 29 12	42 53 PK	P 35			36	44			1.4		
		I 13			-						
DEC 31 18 E39 24		P 42		1	42	29	PP 4	4 18			
				200	250			4 10			

* * * 1967	P	* * *	* *	* *	KON) SEI * * * * SUPP•	*	* *	* * *	* *	* *	* * *	*	2	100	* * *	
MTH DY	HR	M S	M	S	PHASE * * * *	M	5	PHASE	M	5	PHAS	E	MS	A/T	REM	ARKS
* * *	* * * *	* * *	* *	* *	* * * *	*	* *	* * *	* *	* *	* * *	*	* * *	* *	* * *	* * * *
JAN 01 JAN 02	01 615	5 32	32	15	1	25	22	PP	27	58	PKS	28	3 40	1.6	15,35	173,6W
JAN 02	13 C15	7 36.2			*PP	57	45	PP	50	04					32,2N	22,7E
JAN 03	05	. 50.2	05	13	SKKS	06	58	PCSPKP	09	54				1.1		50,4E 165,5E
JAN 03	13				I	41	15	00 00		-					LOCAL	100,05
JAN 04 JAN 04	03	3 56.1			*PP	54	04	1	54	12				America		120,0E
JAN 04	07 E1					04	01							2.0	38,6N	
JAN 04	14				1	32	12	F	32	17					38,2N LOCAL	22,1E
JAN 04	20 CI2	7 12.2				27				1				1.9	10.7N	62,5W
JAN 05	00 (12	3 44.4	20													
JAN 05	06 DI2	6 06.5	30	57	1	23	51	PP	25	44	PPP	26	43	1.7		102,8E
JAN 05	10 II	6 05.2	22	32	1	16	10	PP	17	41	PCP	17	52	1.4	13,8N 39,4N	120,7E 72,9E
JAN 05	14			20		32				15	rcr	1,	32	1.4	LOCAL	12,96
JAN 06	00 10	7 26.3			PP	09	19							1.6		102,9E
JAN 06	00 CI1	5 22 7	25	01	*00			-								
JAN 06	12	2 23.1	25	01	*PP	54	35	PP	18	19						143,3E
JAN 07		6 45				54	25								LOCAL	112 75
JAN 08	05 E1	3 16	21	48	E	13	25	PCP	13	44						112,7E 162,9E
JAN 08	06 DI5	3 55.0												1.3	56.1N	
JAN 08	08 E4	2 23														
JAN 09	02 CIO				,	03	26	DD	04	51	PCP	0.			56,2 1	
JAN 09	02					23		1		21	PCP	05	07		LOCAL	54,5E
JAN 10	22				E	18	27			28	I	18	38		LOCAL	
JAN 11	11 CIS	7 33.0			I	27	38	PP	28	48				1.9		45.7E
JAN 11	15				-	03	20									
JAN 12	12					03									LOCAL	
JAN 12	12					51		1	51	13					LOCAL	
JAN 12	13				E	09	08		09						LOCAL	
JAN 12	13				I	57	41								EXPLOS	ION
JAN 14	12 DI1	5 47.8			*PP	16										
JAN 14	15 CI3	7 23.8				37		PCP	30	14				1.8	52,1N 44,6N	
JAN 15		6 48							-	-				1.4		153,2W
JAN 17	01					25		PP	25	26						63,3W
JAN 17	01				1	39	20									167,2E
JAN 17	11 110	34.3			PKP2	10	50		10						20.46	
JAN 17	12 CI1		20	45	*PP	11	22		14		PPP	15	42		30,6S 38,3N	
JAN 17	14				PG	04	45	SG	04	48			72		LOCAL	142,16
JAN 17 JAN 18	14				I	16	27								LOCAL	
JAN 10	04 DI3	1 50.9													48,9N	154,9E
JAN 18	05 CI4	3 42.4	51	04	*PP	43	52	PP	45	48				2.1	E	120 05
JAN 18	08 CI29				1	29	30			40				2.3	56,6N 52,5N	
JAN 18	11				1	40	17								22,311	100,54
JAN 18 JAN 18	12 CI54 21 E58	38.9			I	54	40							1.3	LOCAL	
10	21 656	32													48,1N	102,9E
JAN 19		7 22													11,85	166.4F
JAN 19	14 CI52													1.8	52,4N	
JAN 19 JAN 20	16 DI56													1.6	NEVADA	
JAN 21	02 CI06	3 41	14	01	PCP			PP	08	26	PPP	09	22	2.4	48,0N	
21	05 21.				1	13	54								49,85	114,8W
JAN 21		7 57			I	08	03	*PPKP	08	13					30,75	178.2W
JAN 23		29.2													27,75	
JAN 24 JAN 24	03 CI16	56.2			PP									1.8	41,4N	141,9E
JAN 24	09 DI40	00.3	48	31	I PG				40		PPP	44	09		00,65	21,0W
					PG	13	23	SG	13	21					LOCAL	
JAN 24		06													30,2N	104,1E
JAN 25	01 CI58		64	28	PP	59	35	PPP	60	00	SS	67	37	2.4		71,6E
JAN 26 JAN 26	16 CI22	58.3													15,0N	92,8W
JAN 27	14					31			05	10					LOCAL	
	443				-	00	12	1	05	13					LOCAL	

* * *	* :	* * *	KON * * *	GSBE	RG (1	XON) SEI * * * * SUPP. PHASE	SMI *	C S	TATION * * *	BUL * *	LET	IN - 19	67	* * *	* *		PAGE * * *	2
MTH DY	Н	8 1	1 5	S/	SKS	SUPP.	1 M	5	PHASE	· 2	1 5	PHAS	P.	3 M S	LOG A/T	REM	ARKS	
* * * JAN 27	* 1	* * *	* * *	* *	* *	* * * * I	*	* *	* * *	* *	*	* * * *	*	* * *	* *	* * *	* * *	*
JAN 28	14	C103	56.0	12	58	PCD	45	15	I	45	19	000				LOCAL	1100	
JAN 28	14	CILE	55.4				04	20	PP	06	12	PPP	07	56	1 6	52,4N	169,	5W
JAN 28			23.7												1.7	52.5N	169,	
JAN 28	14	C152	19.8												•••		169,	
JAN 28 JAN 28			34.7			*pp	4.2	20									169,	
JAN 28			32.2			I			*PD	30	44				2.0	52,3N 52,3N	169.	3 W
JAN 28	17	DI37	53.4				-	-		30						52,3N		
JAN 28	17	D152	59.0	62	02	I	53	05							1.0		169,4	
JAN 28 JAN 28			31.7												1.3	52,5N		
JAN 29			09	17	08	SS	17	31	,	10	25		10	4.1		55 ON	160,2	2E
JAN 29			58		36	I	05	55	PP	06	27	PPP	07	41 31		47,9N 26,5N	14,3	BE
JAN 29	08			59	52	PG			SG	59	49		0,	-		LOCAL	35,2	
JAN 29 JAN 30			39.2													52,4N		
JAN 30	21	C116	14.6												1 4	41,0N 26,2N	44,2	E
JAN 31	17	D155	14.1			*PP	55	28							1.5	42,8N	145.4	-
JAN 31	23							40								LOCAL	143,4	
FEB 01	09					PCP										55,8N	160.7	F
FEB 01	12						49									LOCAL	1	1
FEB 01 FEB 02	13	DIAA	31.6					06								LOCAL		
FEB 02	07	C144	06.8			I	44		200		47					57,95		
			00.0				40	20	PP	41	41				1.6	39.7N	75,5	E
FEB 02			39.3			*PP	36	28	PP	38	04				1.5	41.6N	139.7	E
FEB 02			06.4	01	34											LOCAL		Sec.
FEB 03 FEB 04	12		25.0	25				49		53						LOCAL		
FEB 08	19		25.0	35	22	P*	47		5*	35	53	SG	35	57	1.6	59,6N	13,3	E
FEB 09	12																	
FEB 09	14					PG	13							1		237765		
FEB 09			03.0	16	55	I			56	12	07		04		2 .	LOCAL 40.0N	20.2	_
FEB 09	15	D137	17.5						*PP	37	33	PP	40	07	2.4	02,9N	74,9	
FEB 10	05	D159	47.7									1	/			41,6N	86,2	
FEB 11	02	150	36.1			,	50	4.1				,				048-18		
FEB 11	04		22				50	41								51,7N 16,3N		
FEB 11	08	113	20.2.													36,7N		
FEB 11	08	116	49.1	17	03	PG			SG							SOUTH		
FEB 11	09	E36	27			1	36	33	PP	38	48					52,0N	106,2	E
FEB 11	11						45		E	45	41							
FEB 11 FEB 11	11	E 2 E	39			1	49	49										
FEB 11	15		59.7				36	07								30.5N		
FEB 11	18			27	01	sG	27	13								79.6N WEST S		
FEB 12	16	114	59.3															
FEB 13		CI18				1	13	19								35,8N		
FEB 13	13					PG	13	12	SG	13	15					52,5N LOCAL	103,01	
FEB 13	17							000			•					43,6N	147.48	E
FEB 13	23	CI19	44.6	24	14	I	19	48								52,7N		
FEB 14	01	C147	55.1	57	51	PPP	52	29							1.4	13.7N	94 5	
FEB 14	05	120	40.1	198	PINE	1			SKP	23	13					13,78		
FEB 14						I	39	47								LOCAL		
FEB 14 FEB 14	12						00			160	Miles					LOCAL		
FEB 14	14					1	17	17	1	17	29					ESTHON	·EXPL	
FEB 14	14					1	46	54										
FEB 15																34.5N	47.65	1
FEB 15			37.4				08								1.4	20,4N		
FEB 15 FEB 15	14		24.8	22	01		11		1						A B	59,2N	26,18	
, 20 19	10	-123	24.0	33	01	*PP	25	33	PP	21	29	5	33	36	2.2	09,05	71.3W	1

*	* *	*		KON	GSB	ERG (KON) SE	ISM	IC S	TATION	BU	LLET	IN - 1	967			PAGE 3
19 MT	67 H DY	Н	P .	/PKP	S	/SKS	SUPP	• 1		SUP	P.	2	* * *	* * PP.	* *	* * LOC	PAGE 3 * * * * * * * G REMARKS
	* * B 15			* * *	*	* * *	* * *	* *	* *	* * *	*	M 5	* * *	SE * *	M S	* * ;	* * * * * * * *
	B 15	2:	3 CI4	8 17.3				1 3	0 24	DV		3 44				1.7	7 52,7N 33,9W
	B 17	14		6 52.2					2 01			2 04					23,7S 175,2W LOCAL
FEI	3 19	22		8 35	40	12										1.5	
	3 20	13		1 56				I 2	2 21								09,25 113,1E LOCAL
	3 20	15	11	7 30.8	18	3 04			8 12 7 32			7 45					LOCAL
FE	3 21	11							0 41		1 2	1 45	P	29	9 34		33,7N 75,3E
FEE	3 23	09						I 5	8 57 1 10								LOCAL
	3 23			35.6					6 39	P	P 0	6 57					NEVADA EXPL.
FEE	3 27			49.8		13			5 08			5 26		. 10			49,8N 78,1E
	28	14		55.0					9 14			20		1 10	16		37,5N 21,3E
	01	15		35.3					5 59		1 26	5 08					LOCAL
MAR	02			17				1 01	1 34								51,4N 179,3W
MAR	02	08						E 30	52 58								00,3S 78,7W
	02	23		17.9					5 26								LOCAL 53,8N 160,5E
	03	14							37								LOCAL
MAR	04	18	E43		07	19			43							2.6	10CAL 39.2N 24.6E 39.0N 24.7E
	06 06			38.8				51	41							1.4	
	06	13						08	09								LOCAL
	08	08		31.3				51	00								43,3N 17,7E LOCAL
MAR		12		22	16	44			25			46					SOUTH NORWAY
MAR MAR			C107														28.4N 94.4E
MAR	13	14	D154	55.3												1.3	20,65 178,4W 53,7N 165,4W
MAR			114 C130	32.8												1.9	03,6N 126,5E 19,7N 38,9E
MAR MAR		07		33.0	17	04	*PP	08	39	PP	10	33				2.1	28,4N 94,3E
MAR MAR	14	23	C143					56	27	I	04	32	,				82,5N 36,2E SWEDEN EXPL.
MAR			E31		31	36	sc	31	40							2.0	23,05 178,7E SOUTH NORWAY
MAR MAR		04	DI12 E36	50.8	22	01	I *pp	12	53	1	13	07	РР	15	27		45,4N 151,3E
MAR MAR	20	13	C142 C152	46.2				42									51,9N 180,0E 45,6N 151,4E
MAR	20		D103													1.7	45,6N 151,5E 45,6N 151,5E
MAR MAR	24				22	51	E *PP	41	37	PD	17	32	*PPP	10	25		LOCAL
MAR	24 25	06	C105	28.0				29						17	23	1.7	06,0S 112,3E LOCAL
MAR	25	22	C159	12.1	68	32	*PP	59	27								KAZAKH EXPL. 45,5N 151,4E
MAR	28	00	109	38.0	18		*PP	09	22							1.4	38,4N 116,5E 38,5N 25,3E
	28	21			53	29	1	07	37	,	08	48					50,5N 4,1E LOCAL
MAR	29	02	E08	26				08			08						KERMADEC ISL

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MTH DY	HD M C	S/SKS	SUPP.	1	SUPP	• 2	250	SUPP. 3	LOG	
* * *	P/PKP HR M S * * * * * *	MSP	HASE	MS	PHASE	M	S	PHASE M S	A/T	REMARKS
MAR 29	17									
MAR 30	02 E25 29		PP	26 47	DC	36	02			20,15 179,0W
MAR 31	02 DI23 20.2		1000	20 41	-5	30	02		1.8	20,1S 179,0W 11,0S 115,5E 52,1N 169,7W
MAR 31	03 CI26 33.6								1.00	20,2N 38,6E
MAR 31	09 126 27.3									51,8N 176,2E
MAR 31	14		1	17 15						
MAR 31	20 124 19.7				A 46					15,45 167,5E
APR 01	06 105 30.3	14 42	*PP		PCP	05	58		1.9	45,8N 151,8E
APR 01	06 CI08 18.1 07 159 39.3		*PP	08 32					1.8	15,4S 167,5E 45,8N 151,8E 46,3N 152,0E 45,9N 152,0E
APR 01	12 CI34 47.6	42.50	-	20.00						
APR 01	14 111 47.0	43 59	E	39 37						45,7N 151,8E
APR 01	17 132 21.5								1.00	45,8N 151,7E 45,6N 151,9F
APR 01	23 DI31 21.4									58,4N 154,9W
APR 04	04 DI05 40.4		*PP	05 52						45,5N 157,2E
PR 04	04 135 14.0									50,15 127,4E
APR 04	17 CI04 30.2		PP	05 15						35,4N 23,6E
APR 04	18 109 56.5		I	10 45						45,7N 26,2E
PR 05	02 CI47 22.7		PP PKP2	51 07	I	51	26			20,0N 147,1E
APR 05	23 CI52 51.0		PKP2	52 57						31,15 178,2W
APR 07	17 CI13 04.0									37,4N 36,1E
APR 07	18 CI39 21.0		I	39 29						37,4N 36,2E
APR 10	05 DI18 44.6									7,45 155,7E
PR 10	15 I21 35.2 20 DI07 44.0		PCP							7,35 155,8E
	20 0107 44.0		PCP	08 27					1.5	58,6N 154,3W
PR 12	05 DI04 05.8		I	04 11	PP	07	21	SS 19 36		5,3N 96,5E
PR 12	05 DI23 41.8		PG	00 50						5,5N 96,7E
PR 13	08 DI38 07.6		PG	09 58	36	10	10			58,7N 9,9E
PR 13	08		SG	51 32						5,5N 96,6E 67,7N 21,5E
APR 13	0.9			04 45						A DO LET LAND LAND
PR 13	18 F50 48		PCP	51 10						63,4N 18,6E
PR 13	20 CI05 48.7		*PP	05 58	I	06	04		2.1	52,1N 157,6E
PR 13	20 DI12 14.9		*PP	12 36		-0	-		2.4	27,3N 128,7E 18,5N 100,2W
IPR 14	09 18 E50 48 20 CI05 48.7 20 DI12 14.9 05 CI31 06.0		*PP	31 21	I	31	26			17,5N 100,2W
PR 14	15	58 36								58,3N 14,4E
PR 15	09 DI19 44.9									29,15 179,7W
PR 16 PR 18	10 CI21 18.6									46,4N 153,3E
PR 20	12 01			52 56 48 55						13,2N 143,5E 61,8N 4,7E
PR 20	04 DI15 25.8			16 58						
PR 22	13 CI20 05.1		PP	10 20					2.0	49,7N 78,1E
PR 23	09 CI35 34.3		1	35 38						5,1N 96,4E 36,3N 2,4E
PR 23	14 CI11 06.2			,, ,,						18,4N 103,0W
PR 23	15 DI13 08.3		*PP	13 16						1,6N 80,2E
PR 24	08 CI59 26.4		PP (61 09					2.0	37,4N 72,7E
PR 24	15 CI22 52.6									42,4N 131,0E
PR 25	10 CI39 15.3		*PP	39 24						43,3N 87,0E
PR 25	15 E43 48									29,15 178,2W
PR 26	13 CI24 20.1		*PP	24 30						1,35 89,5E
PR 27	12 DI42 52.0									23,65 179,9E
PR 27	23 DI23 47.5			23 51	*PP	23	57	PP 25 37		41,7N 82,3E
PR 29	04 CI06 23.1		PCP (06 47						51,4N 178,3W
PR 29 AY 01	05 E05 11 07 DI13 48.4	17 21	PP 1	14 31	I	19	44			39,5N 74,9E 39,7N 21,3E
AY 01			11/1/19		1991					
AY 01	08 DI20 30.2 09 DI54 55.8	58 54								39,9N 21,5E
	16 E44 49	20 24								39,6N 21,4E 39,8N 21,7E
	19 DI34 11.5									40,0N 21,4E

* * * * * * * * * * * * * * * * * * *	SBERG (KON) SEI * * * * * * * * S/SKS SUPP• M S PHASE	SMIC STATION BUILT ** * * * * * * * * * * * * * * * * *	LLETIN - 1967 * * * * * * * * * * * * * * * * * * *	PAGE 5 * * * * * * * * *
* * * * * * * * * * * * * * * * * * *	* * * * * * * * I	1 46 36 I 46 1 51 08	* * * * * * * * * * * * * * 6 53	39,7N 21,5E 39,8N 21,5E GREECE GREECE GREECE
MAY 04 13 DI18 17.1 MAY 05 00 DI18 59.4 MAY 05 06 CI31 20.8 MAY 05 15 DI17 55.0 MAY 06 14 Ell 41	I *pp	31 25		39.8N 21.5E 29.2N 103.5E 39.6N 21.5E 59.3N 151.4W 19.3N 70.0W
MAY 06 18 MAY 07 11 DI14 51.0 MAY 08 18 DI55 57.5 MAY 08 19 MAY 09 06 DI26 14.5	PCP	2 48 50 2 57 44 1 04 49 1 09 2 26 27	5 01	29,45 179,3W 51,8N 173,8E 36,4N 70,2E 33,2S 178,4W 44,2N 149,0E
MAY 09 08 CI05 29.4 MAY 09 12 DI47 05.1 MAY 09 15 DI17 29.7 MAY 11 14 159 08.1 MAY 11 15 CI23 12.6		9 47 16 I 59 11 I 59	9 13 PP 60 57	39,8N 21,5E 56,6N 152,6W 56,6N 152,3W 39,4N 73,8E CHILE
MAY 12 05 DI29 16.6 MAY 12 13 MAY 12 17 DI09 30.1 MAY 13 05 DI29 23.9 MAY 14 04 CI21 02.5	38 02 *PP	5 50 32 2 29 32 PCP 20 1 21 11 I 2		39,5N 73,8E 52,9N 167,0W 56,5N 152,6W 37,7N 21,2E
MAY 14 09 DI09 04.6 MAY 15 02 E39 42 MAY 15 08 CI18 44.2 MAY 17 00 CI43 09.0 MAY 18 08	1	E 30 10 I 43 11 5 18 38 SG 1	9 10	39,2N 73,9E 32,5N 141,4E 34,6N 26,7E 60,8N 143,7W 60,5N 5,6E
MAY 18 11 CI39 08.4 MAY 18 12 E00 55 MAY 19 05 MAY 19 12 MAY 19 16 CI01 33.7		I 29 07 I 22 09		40.6N 70.4E 34.9S 179.0W 30.3S 177.9W 14.5N 40.3E
MAY 20 08 DI55 24.4 MAY 20 15 CI11 34.9 MAY 20 23 CI21 11.6 MAY 21 07 CI30 21.2 MAY 21 18 CI58 00.9			4 46 I 24 51	39.2N 72.8E NEVADA 66.4N 33.4E 27.9N 111.3W 01.0S 101.5E
MAY 22 02 C103 57.7 MAY 23 14 C111 35.0 MAY 23 15 MAY 26 03 MAY 26 14	I I I	I 45 03 I 07 34 I 12 51		44,6N 150,5E NEVADA 28,0S 176,7W 24,7S 179,5W WEST NORWAY
MAY 26 15 DI11 57.1 MAY 27 01 DI51 06.3 MAY 27 12 E51 04 MAY 27 17 CI33 57.8 MAY 27 19 DI14 31.7	43 01 *PP 21 32 I	F 70 18 P 34 08 PCP 36 I 14 36 PP 16		NEVADA 39,9N 77,3E 36,2N 71,5E 3 51,9N 176,1E 36,1N 77,8E
MAY 28 01 CI42 52.5 MAY 28 04 DI15 27.2 MAY 29 21 DI12 56.3 MAY 30 10 105 52.0 MAY 30 23 DI59 24.2	22 04 *PP	P 16 58 P 13 21	1.	52.1N 175.0E KAZAKH USSR 43.3N 145.7E 50.1N 176.6W 34.2N 28.8E
MAY 31 11 CI49 41.2 JUN 01 03 DI47 07.1 JUN 01 10 DI26 44.8 JUN 01 10 CI44 54.7 JUN 02 04 DI36 27.3	PCP	P 47 47	at cold	12,5N 60,3W 53,7N 165,6W 53,9N 160,6E 36,9N 29,2E 41,0N 88,1E

		*	*	* *	* *	NGSB	ERG * *	(KO	N) SE	ISM * *	IC S	TATION	В	ULI	LET	IN - 19 * * * * SUI PHAS	967					PAGE	6
	67 H DY		IR	P	/PKP	S	/SKS	5	SUPP	. 1	92.0	SUP	P.	2		SUI	PP.	3	* 1	.OG	* * *	* * 1	* *
*	* *	*	*	* *	* * *	* *	M 5	* *	PHASE	M	5	PHAS	E	M	S	PHA:	SE	M .	SA	TV	REI	MARKS	
JL	IN 02	. 0	15	DII	6 44.						7 20				04					*	* * *	* * *	* *
	IN 03	0	19	CII	9 10.	7 2	7 30		*PI	1	9 20		-	10	04		1 2:	5 5 5				47,	
	N 04	. 0	15	DI3	7 37.	7			*P	3	7 46										58,41	151	2W
	N 05	1	6	D149	9 24.	7			*P	9 4	9 37											159,	
JU	N 07	0	8	DIS	5 17.8	3															31,31	1 159,	IF
	N 10		5	D145	5 34.2	2																	
JU	N 10		4							1 17	7 07	SK	P	19	54						41,35	73,	
	N 11 N 12				23.5																47,5N		
	N 12				13.5																16,61		
																					38,2N		
	N 12 N 12	0			08.1		0 18		1	56	12		P 5								38,2N	22,	7F
	N 12		-		37.2		6 04				44	P	5 4	+9	06	SS	55	00			44,95		
	N 12				48.8		2 54		*00	17	43										39,2N	21,	4E
	N 13				43.9		2 34		*PP	34	03	S	5 4	+7	40	E	62	03	2	.0	47,4N		
																					78,6N	8,	2E
	N 13 N 14	0	2	DI59	32.3																39,0N	31.	2E
	N 14	0	5	C125	37.8					2.											45 , 3N	136,	9E
	N 14	01	8	CIIT	02.1	21	5 22				02		5 2								45,3N	136,	9E
	N 14	01	B (DI 24	06.6	-	, 22				13	PCI	P 1	.7	22						47,5N		
										-	15								2	• 2	47,5N	154,	5E
	N 15	15		E02																	34,1N	32,	SE
	N 17	10	5 9	152	22.1				*PP	52	31										9,1N	40 ,4	
JUI	N 18	16	,	147	17.1	2:	28		*PPKP	19	34	PF	2	0	52	PKKP	28	51	2	.0	58,35	26 , 6	6W
	N 19	14		E43																	37,4N	71,9	9E
																					20,6N	38,4	4E
	1 19	17	1	118	42.3	27	46		*pp	18	51	PCF	1	9 (03	SCS	28	26	2.	4	52,7N	166.0	OW
	1 20	05		0136	20.0														1.		52,8N		
JUL	20				42.3														1.		52.7N	166,5	9W
	1 20				44.6	5.8	48		*PP	40	5.0	PCF			0.0						52,9N	166 , 9	9 W
												PCF)	0 0	08				2.	1	52,8N	167,1	LW
JUN	20	07	D	136	50.4				*PP	37	03										52,8N	166.9	ow.
	21	16					50														2,25	77,6	
	21			114	19.1	09	10		***												12,7N	123,1	E
	21				34.6	30	20		*PP			PCP	2	2 2	. 1						64,8N		
	-											rcr	2.	9 3	0.1	35	34	20			64,8N	147,4	W
JUN	21	18	0	134	16.6				*PP												64,8N	147.4	W
JUN		22	U	129	01.0					29											23,55		
	23			112	10.1	14	24		1	09	26										67,6N	10,4	
JUN	24	15			777	-	-		SG	03	21										40.8N	33,6	
				00							-										61,0N	15,0	E
JUN	25				39.1																46 , 7N	152.5	E
JUN		20	0	135	13.2	45	54		I	35	22	SS	51	1 3	0						18,4N		
JUN		01	D	121	14.5														2.	0 !	51.3N	180,0	W
JUN		03	D	104	26.5				PP	05	5.0										46 + ON		
																			1.	9 1	CAZAKH	USSR	
JUL					00.0	20	4.0		*PP	33	12	PCP	33	2	9						54 + ON	161,0	W
JUL		02	C	147	04.1	29	42		PCP	21	10	SCS	30	5	6 P	KPPKP	49	37			4 , 4N	158,01	W
JUL					56.6	25	56		*PP	15	14	PP	10								4,5N		
JUL	02	07			19.6				*PP	50	33	I				SCS	26	16			8 . 7N	93,88	
JUL	02	0.0	-											88							8,7N	93,88	
JUL		20	(141	31.7															3	3,2N	75,68	
JUL			C	109	35.6															3	1.2N	130,18	E
JUL	03	05	CI	120	46.5																4,7N		
JUL	04	23	CI	153	11.2	62	14		*PP	53	49	PP	55	40	0	scs	62	58	2.3	4	3,6N 1	47 , OE	
JUL	06	00			20.2								-	,		000		-0	20:	4	3,214	72,56	
JUL		15	DI	107	28.2	62	50		PP :	59	07									3	6,8N	21,3E	50
	06	05	DI	15	54.4				*PP	16	0.8											1 334	
JUL		13	DI	53	23.5	62	26		I			PCP	52	45	5				2 .	6	2,4N 1	47 , 4W	
JUL	06	13	CI	57	51.8								-3	4.					2 • 6	5	2,6N 1 2,6N 1	68 - 1W	
																				2	7 1014 T	00 1 M	

* * * 1967	* *	* * *	KONO * * *	* *	RG (1	KON) SEI * * * *	*	C S	TATION * * * SUPP	* *	* *	* * *	*	* * *	* * LOG	!	PAGE 7
MTH DY		M	S	M	S	PHASE	M	S	PHASE	M	S	PHASE		M S	A/T	REMA	ARKS
* * *		* * 1	* * *			* * * *	*	* *	* * *	* *	* *	* * *	*	* * *	* *	* * * *	* * *
JUL 06			50.2	51		000	20										61,9W
JUL 07		DI41		30	20	PCP	30	40							1.8	8,1N	38,5W
JUL 08	01	E17				SKP	21	13									167,5E
JUL 08	10	121	04.9														179,8E
	00	500	00														
JUL 09 JUL 12	10	E20 E42				,	4.2	01	DCD	4.2	09						144,7E
JUL 12	21		-	23	40			10				SS	29	48		5,6N	161,1W 82,6W
JUL 13	02				22					-		-	- '			35,5N	0,1W
JUL 14	14	E04	12													54,0N	164,3W
JUL 15	03	D134	26.7			PP	25	50								40 01	70 15
JUL 15	08	E26				PCP										49,8N	78,1E 176,8E
JUL 15	14	E54															126,3E
JUL 16	13			59	28	PP	53	20	PS	62	32	55	68	36			132,6E
JUL 17	11	C139	21.9													51,1N	169,3W
JUL 17	12	D147	46.0													38.3N	142,1E
JUL 19	09			16	08	1	20	52								37,9N	29,0E
JUL 19		D136														36,5N	70,3E
JUL 20 JUL 20	13	D113	15.4	24	02												153,3W
JUL 20	13			36	02											28,15	66,9W
JUL 20	14	C137	16.8	46	22	PCP	37	34								51,4N	178,3E
JUL 20	15	E50		61	06	PP	54	25	SS	69	04	LQ	78	16		7.7N	134,9E
JUL 20 JUL 22		CI31							040						1.9		178,5E
JUL 22	07	E17	48					57	PKS	21	40	SS	41	18		33,55	179,0W
						/	-	7,									
JUL 22	11	E01		03	18											51,4N	1,3E
JUL 22		CIOZ														40,7N	30,8E
JUL 22 JUL 22		CI53														40,6N TURKEY	30,7E
JUL 22		DI14														40,8N	30,4E
JUL 22		D152														40,8N	30,9E
JUL 22 JUL 22		D140 D126														40,6N	30,4E
JUL 22		C147														40,5N 40,6N	30,5E 30,7E
JUL 23	04	E08	46													40.6N	30,6E
JUL 23 JUL 23	04	E53														40,6N	30.7E
JUL 24		C145														40,8N 40,8N	30,8E
JUL 25		C137														45,8N	26,5E
JUL 26	06					I	51	01								31,85	178,7W
JUL 26	00	C121	11.0													40 2N	20 (5
JUL 26		DI58		63	32	1	58	58	PP	59	53	SS	65	06		40,3N 39,5N	30,6E 40,4E
JUL 27		D148														31,7N	50,8E
JUL 27		D121				*PP	21	36								64,0N	20,7W
JUL 28	15	E38	39													63,9N	20,5W
JUL 28	17	C140	20.8			*PP	40	33								2,1N	98,0E
JUL 29	10		20.7	46	14	*PP			PS	47	04	PPS	47	20		6,8N	73 + OW
JUL 30	00		42.6													10,6N	67,3W
JUL 30	01		05.0													40,7N	30,4E
302 30	0,	121	22.0													20,15	177,4W
JUL 30								04	1							56,25	146,9E
JUL 30	17					SKP	45	47									178,8W
JUL 30 AUG 02		C103	49.1	12	28	LR	12	06		12	40		16	42		40,7N 71,2N	30,7E
AUG 02		D109			04	PP			F	13	04	I	15	22		71,2N 71,2N	8,0W 8,5W
							00		44	-	18 99			CTA.			
AUG 02		130															103,2E
AUG 03 AUG 04		DI48														53,0N	166,7W
AUG 07		E26														29.45	177,4W
AUG 09		E41															180,0W

MTH	DY	HR		/PKP	S	/SKS	DHASE	. 1	* *	SUPI	* :	2	* * * * SUF	Popo	* *	LOG		PAGE 8 * * * *
AUG	10	11	CI3	2 34.7		* * *	* * *	* *	* *	PHAS	* 1	4 S	PHAS	E *	M S	A/T * * *	* * *	* * * *
AUG AUG AUG	12	09	CIS	2 13.3 9 04.9 1 21.0			*PPK	P 4	2 30 9 39		6	2 03	SKKS	69	06	3.7	38,51	150,3E 141,9E 177,5W
AUG	10 6	15					P	G 5	5 32	, PI	N 55	35	S4	55	. 44			160,4E NORWAY
AUG	13	20	117	7 56.0														71,4E 135,3E
AUG	14	12	156	56.9													43 , 2N	0,5W
AUG				23.4														30,5E
AUG	15	07	DI:11	20.7														19,4E 15,0E
AUG	15	09	DI31	13.0			4 484	3:	1 16	PP	33	27						70,2E 93,7E
AUG				50.6														132,4E
AUG	16	22		53.1	42	32	PC	5 4	5 27	SN	45	52	SG	45	59			98,9E
AUG		22	C152	14.4									30	7,	29			SWEDEN 151,4W
AUG				13.8														71.5E
AUG	19	15	DIAI	20.4	52	06											27,15	176.5W
AUG	19			53.7	22	04	1	4]	42	PP	45	09	SS	59	12			126,0E
AUG				07.9		29			52			40				2.8	12,45 45,3N	166,6E 80,1E
AUG				33.8		58			56	SS	61	36	1	83	80		3,6N	95 , 8E
AUG	21	14															57,0N	4,9E
AUG		12							40			27					NW NO	
AUG :		13	CI21	01.5	28	04			38	SKKS			PS	32	46			SWEDEN 24,6W
AUG :				56.7													60,95	23,2W
ALIC	24			2 450													23,45	179,7E
AUG 2				32.6														147,5E
AUG 2		00	150	16.6			PP			PS	63	12	SS	68	40		21,0S 12,2N	
AUG 2				00.6	31	04	*PP	21	43	PPS								86,2W
AUG 3	20			35.4													36,5N	80 +1E
AUG 3	30	11	119	20.2	41	08	PP	35	00	PPP	36	38	SS	44	50		31,7N	
AUG 3				22.2	E 0		I	15	29							2.8	30,4S	100,3E 178,6W
SEP C				31.8	53	25											45 , 4N	151,5E
SEP C	02	05	C157	06.0													71,6N	8,2W
SEP C)3	21	CI21	07.6	31	45	РР	25	09	PPP	27	17	PS	34			29,15	
SEP O			111	24.7			PKP2				12			-	-		10,65	
SEP 0			0135														35 , ON	23,0E
SEP 0	7	09 1	0153	00.6			PKP2	62	00								52,6N	
SEP 0	7	11 (C127	15.5			PAPZ	23	09								30,55	
SEP 0			0113														37,9N	
SEP 0			2109														36,9N	71.5E
SEP 0	8	09	156	48.2													40,7N	
SEP 0	8	22	104	22.7													39,2N 52,3N	
SEP 0		10 1	151	13.4 53.0	27	14	PP			SS							12,2N	
SEP 0		17	119	23.0	21	14	PPP	23		PS E			SKKS :	36	28		21.15	176,7W
SEP 1	1	06	121	04.0														
SEP 1	1	07 0	105	38.8													27,5N 36,4N	66,4E 2,8E
SEP 1			E45														71,2N	6,1W
SEP 1			154														22,85 44,6N	10,5W
																	-470I4]	47702

1967			P/	* * *	* *	* *	SUPP.	* *	*	* * * *	*	* *	N - 1967 * * * * * SUPP• 3 PHASE N	* *	* * LOG	* * * *	AGE 9
MTH	DY	HR	M	S	M	S	PHASE	M	S	PHASE	М	S	PHASE M	1 5	A/T	REMA	RKS
						* *	* * * *	* 1	* *	* * * *	*	* *	* * * * *	* *	* *		
SEP		11	CIZZ	20.2			DN	04	20	PG	04	42	SN 05	02		05,05 LOCAL	09,8W
	12		D151	33.0			FIN	04	27	-0	04	42	314 03	02			21,2E
SEP				07.3	61	18	SS	65	38						1.1	52,7N	172,5E
SEP	14	01	101	33.7													178,4W
																20 61	67.15
SEP				53.7		11	SKS	50	36							28,4N	57,1E 140,4E
SEP				44.0		11	343	30	36								139,6E
SEP				09.7		36	PKPPKP	72	42						3.2	27,4N	
SEP				24.9												50 , ON	77,8E
			-													21 66	170 05
SEP				35.2												17,2N	179,8E
SEP		23		40.8												41.0N	
SEP				50.7													177,3W
SEP				20.9		34	PS	17	16	PCP	67	25				43,0N	145,2E
SEP				48.3													100,5E 139,9E
SEP		00		23.7			PKP2	60	17	PP	63	5.8	SKKS 74	32			163,4E
SEP				24.1			FRFZ	00	1.		03	20	5KK5 14	-			77,6E
SEP				39.4												00,75	20.1W
SEP				13.9		26	SS	43	16	I	57	02	I 61	24	2.0	21,8S	149,4E
SEP		07		04.2		04		60	56						2.0		179,6W
SEP				24.5				03									179,3W
SEP				54.9													177,8W
3114		766															10 75
SEP		22		56.1												40 + 8N	19,7E 61,6W
SEP		06		29.8													150,6E
SEP		16		54.7		10	PP	31	28	PS	40	26	SS 46	14		30.05	71,5W
SEP		03		09.8			E			1	20	57				42,0N	79,5E
			44													01.15	152.45
SEP		05		45.4		12	PP SCS			55	33	42				59,5N	153,4E
SEP		15		23.8		12	363	04	34							12,3N	91,2W
SEP				27.4												16,2N	98,4W
SEP	30	08					I	49	16							40,55	75 , OW
OCT	00	00	0121	10 1	,											21.05	178,8W
OCT				10.3		14	PP	31	28	PPS	40	12				10.9N	85,9W
OCT				36.4		16	8	-	50		40	1-					112,0W
OCT				51.5												37,8N	20,7E
OCT	06	04	DII2	16.1	1											10,35	66,4E
ост	00	14	0120	47.7	,										3.0	54-1N	155 + 1E
OCT				02.4		16	SKP	42	48	PKKP	49	10	PS 53	30			179,3W
OCT				21.0			SKP										179,2W
OCT	12	13	DIOS	37.0)												152,5E
OCT	12	18	D150	07.	1											07,15	129,8E
OCT	12	02		2 55.5												39.7N	74,4E
OCT				57.9		02	*PP	13	37	PP	16	10	PS 24	08		11,9N	86 . OW
OCT				27.			PN									49,8N	78,1E
OCT	17	14	CIZ	7 12.3												21,25	
OCT	18	01	CII	5 19.3	3 19	57	PP	16	34	LR	21	26	I 22	36		79,8N	2,4E
OCT	1.0	14	141	35.5	5												
OCT				5 18.			PKP2	26	21							33,95	179,6W
OCT	21	05	CIO	4 53.	08	45				I	11	30				73,4N	54,8E
OCT	21	18		9 04.												24,85	
ост	22	23	DII	5 19.5												27,4N	128,3E
ост	22	03	104	4 48.												43.4N	146,9E
OCT	23	08		8 39.													139,1E
OCT	24	03	C13	2 49.	3												179,7W
				4 25 .!								, .	DV = 0.0	21			101,5E
ост	25	01	CII	1 26.	21	24	PP	14	31	. 55	26	40	PKKS 33	30		24,5N	122,2E

			* *	* *	* *	* * * *	* 1	* *	* * * *	*	* *	N - 1967		* *	PAGE 10
1967			KP	5/5					SUPP	2	-	SUPP . 3			
MTH DY	HR	M	5		S	PHASE									REMARKS * * * * * *
OCT 25		* * .		* *			59				57				
OCT 26							03		1						24.5N 122.2E
OCT 26							10								37,3N 29,1E
OCT 30		DIII	26.7												49,8N 78,1E
OCT 31	21	C113	02.0	17	04	PCS	20	48							37,8N 14,6E
NOV 01		CI41	57.8												48,3N 154,4E
NOV 01						SN	33	53	SG	34	07				20 46 177 00
NOV 02		DIII												, .	30,65 177,9W 17,85 179,0W
NOV 04		CI35		40	10	PP	38	20						1.00	37,4N 141,6E
NOV 04	13	C138	28.2	48	10										31,411 111100
NOV 04	14	DI41	51.6	51	18	PCP	42	12	SCS	53	15				43,5N 144,1E
NOV 04		DI57						-							43,5N 144,0E
NOV 07		DI05													37,0N 71,7E
NOV OB		C133													51,1N 178,4E
NOV 19	12	C118	45.3			PCP	18	56	PP	21	36			1.9	36,4N 141,1E
NOV 19			43.2			PP	51	44	PKS	52	28	SSS 75	28		22,65 170,9E
NOV 20		C125											24	2.0	51,2N 151,3E
NOV 21		D105				*PP			PP			I 08 SS 57		1.8	72,7N 8,5E 14,5N 52,1E
NOV 23		D145				PCP			PP	41	22	33 31	20	2.5	14,5N 52,1E 80,2N 1,0W
NOV 23	13	D146	45.8	50	44	PP	41	26						2.00	0092N 190W
NOV 26	00	D120	12.6												28,6N 130,0E
NOV 26		D129													39,4N 20,4E
NOV 26		DI21													
NOV 27		DI36													60,3N 140,8W
NOV 28		DI48												1.7	32,1N 130,8E
NOV 29		D143													23,5S 179,8W
NOV 30		C128			54	PP	28	28							41,5N 20,5E 41,3N 20,5E
NOV 30		DI47	22.2			24	4.7		SN	40	10	SG 48	24		41,3N 20,5E SOUTH SWEDEN
NOV 30			42 4			PN	47	23	SN	40	13	30 40	24		42,9N 77,4E
NOV 30	, 11	C152	43.4												7277
DEC 01	14	DI07	45.0	16	34										49.5N 154.4E
DEC 02		CI43							The state of						24.1N 108.6W
DEC 02		DI49													41,3N 20,3E
DEC 09		CI14													42,0N 16,5E
DEC 09	05	D147	01.9												22,25 179,4W
DEC 10		D118									00			1.7	40,5N 124,6W 17,7N 73,9E
DEC 10		CIOI			06	PP	04	04	SS	14	00			2.6	47.6N 152.6E
DEC 13		CI49	25.2												19,15 168,7E
DEC 13			05.7												14,3N 53,7E
DEC 14	. 02	150	03.1												
DEC 15	3 20	C106	54.9												29.15 177.6W
DEC 16		C104													51,2N 157,7E
DEC 17		DI33	25.8											1.8	36,5N 71,4E
DEC 17		DIOL	13.9												29,1N 81,9E
DEC 18	3 14	E18	03												12,1N 143,6E
															37.5N 72.0E
DEC 19			55.7												41,5N 20,4E
DEC 19			56.8												11.8N 93.0E
DEC 20			11.0			PKS	30	13							15,15 167,4E
DEC 20		DI26			12		43			50	04	PS 52	52		21,85 70,0W
DEC 2.		139	13.0			7							100 A		
DEC 21	1 1	3				PKP2	05	53							31,75 179,1W
DEC 22						PKPZ									29,95 177,4W
DEC 24	4 04	DI25													71.9N 0.9W
DEC 24	4 20	CI13	53.9	22	46	PF	16	20	SS	27	16				17.4N 61.1W
DEC 24	4 2	D143	15.7											2.2	17,4N 61,3W
0.55			40		21	PKF	4.2	16	pp	42	37				05,3S 153,7E
DEC 25		F.38	42		08		14			43	31				21,55 70,4W
DEC 25	5 1		17	01	08	53	14	36							32,05 178,0W
DEC 2			-	43	08	SKS	1,2	08	P	44	46				21,25 68,3W
DEC 28				1 7 7 7	56										44,2N 128,8W

			KON	GSBERG	(KON) SEI	SMIC	STA	ATION E	BUL	LETIN	- 1967			PA	GE 11
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1967		P/1	PKP	S/SKS	SUPP.	1		SUPP	. 2		SUPP.	3	LOG		
MTH DY	HR	M	S	M S	PHASE	M S	5	PHASE	M	5	PHASE	MS	A/T	REMAR	KS
* * *	* *	* *	* * *	* * *	* * * * *	* *	*	* * * 1	* *	* *	* * * *	* * *	* *	* * * *	* * *
DEC 28	09				1	35 4	3								
DEC 28					I	42 1	6								
DEC 29														41,5N	20,4E
DEC 29														22,85 1	75,3W
DEC 30	04	DI22	50.7	25 53	*PP	22 5	8	PP	23	11	I 27	56		44,7N	12,2E