UNIVERSITETET I BERGEN

JORDSK JELVSTAS JONEN (Seismological Observatory)

Seismological Bulletin Kirkenes, Norway 1966—1967

By

HARALD GAMMELSÆTER and ANDERS SØRNES

UNIVERSITETET I BERGEN JORDSKJELVSTASJONEN (Seismological Observatory)

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Kirkenes (KRK), Norway.

Latitude:

69°43'27" N

Longitude:

30°03!45" E

Elevation:

25 meters

Foundation:

Gneiss-granite

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

Tratament	Period	sec	No	D.
Instrument	Tg	Ts	Magnification	Damp.
SP Benioff	0,75	1	25.000	17:1
LP Sprengnether	100	15	1 500	critical

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 millicrons) 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.

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TH D	_	HR	M	S	5/:	SAS	PHA	SF.	M	c	DHASE	. Z	5	SUP	- M	22	LOC	7	DE	KOK
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IAN O	2	04	D114	58.4											5 .	0.0	\$2.0	180	81	RAM
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IAN O	5	18	121	59.4				*PP	22	100	P 54	9.				3		10	05	SAM
JAN OS	9	09	D123	24.7						10							1.	7		
JAN 1	0	01	E30	54				I	31	32							610	90	20-	MAR
																			20	MAR
JAN 1	1	14	C127	07.0			88.				10 9					8.	SIC	80	22	MAR
JAN 1	3	10	C150	40.4	58	18	08	G		4	81 9	C.		.4.		1 6	12.	300	23	MAR
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JAN 2	0	16	E42	09																
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											000			PPP		1		90	65	MAR
JAN 2	2	14	D136	34.5	44	14		*PP	36	45	PCP	37	23	PPP	39 4	6		00	0.6.	SAM
JAN 2	4	07	D131	30.5	38	19		PP	33	16	I	33	45	SS	41 4	1	die .		14	SAM
JAN 2	7	19	C148	49.7												€ €	I	10	10	APR
JAN 2		06	E01	09	08	57		PP	02	58	SKKS	10	29							
JAN 3	0	07		,	28	47										9 0		03	10	APR
											SE 1							8.	10	APR
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EB O	5	15	D122	36.6	30	49		PCP	23	15	SCS	32	09				1.	7	44	APR
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EB 0	7	05	138	36.9													213	10	20	aa.
EB 0	7	23	C114	56.0	21	48		PCP	16	33	PPP	17	25	SS	24 5	0	610	10	00	001
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EB O	9	01	E08	03						8	00 4	144			. 0	0 0	57	27	20	aa.
EB O	9	04	E59	38				PKS	63	04						2 2	210	77	00	201
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1	•	00	Bel	12.0											0.5	1 6	CIA	OF	OF	99/
EB 1	8	07	F11	40	22	02				2	56 A	PF			4.0	5 0	15	31	10	99%
EB 1	R	19	DI12	10.3		-	3.5	PP	14	15 4	1 03 3						1.0	170	11	99/
EB 1	9	12	C158	21.3						1-				17 23	0.0	9 4	CIO	23	11	89/
EB 2	í	00	E41	36				PP	43	39										
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EB 2	4	00	D126	14.4											0.8	7 1	013	.05	16	991
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EB 2	6	19						SG	47	22										
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AUG 15 02 DI24 21.4						34	53	*PP	26	58	LQ	42	05								
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* * * 1966 MTH DY * * * 4 AUG 16 AUG 17 AUG 17 AUG 17	02 CI23 36. 03 DI59 50. 05 CI47 32. 20 CI06 40.	7 1 7	SMIC STA * * * * 1 1 M S * * * * * 23 45 69 54	TION BULLET! * * * * * * * SUPP- 2 PHASE M S * * * * * * PP 24 40 E 72 08		PAGE 6 * * * * * * * * * LOG A/T REMARKS * * * * * * * *	
AUG 18 AUG 18 AUG 18 AUG 18	06 DI47 45. 10 CI45 53. 14 DI47 02. 14 DI50 57.	2 4 56 15 PP 9 57 36 I 4 61 44 PP	49 16 47 27 54 41	S 56 40 PS 59 07 PS 63 03		1.7	
AUG 19 AUG 19 AUG 19 AUG 19	12 DI56 51. 13 DI21 27. 13 DI36 32. 14 I00 45.	2 1 1 5	28 31	1 28 35	PP 29 29		
AUG 20 AUG 21 AUG 22 AUG 23 AUG 28	09 DI41 59.9 05 DI12 53.1 14 CI29 28.6 18 CI33 19.0 07 E48 49	1 *PP	42 13 13 05		-	2.4	
AUG 28 AUG 30 AUG 31 SEP 01	10 DI50 21.0 20 DI29 41.1 20 DI32 04.1 18 DI18 17.4 01 I41 08.2	1 36 44 PCP	31 12				
SEP 01 SEP 01 SEP 02 SEP 02	14 DI27 09.5 14 DI29 29.3 19 I20 39.2 01 DI04 29.0 11 DI21 06.4	34 43 PP 22 47	27 14 30 34	PCP 32 17	SS 37 22		
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SEP 24 SEP 25 SEP 25 SEP 26 SEP 26	10 108 58.2 05 DI01 36.4 06 CI14 59.6 03 CI55 29.2 05 I20 28.1	25 22 I G 28 16 *PP 2	02 11 25 36	PPS 26 51 PP 22 38	E 45 42	2.0	
SEP 27 SEP 27 SEP 28 OCT 02 OCT 02	03	10 31 18 13 PCP 1 41 42 SS 4 30 56 *PP 2	5 34	SS 21 52 E 56 54 PP 27 29	E 59 35 PPP 27 49		
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KIR	KENES (KRK) SEI	SMIC STATIO	N BULLETIN	- 1966	PAGE 7
1966 P/PKP	S/SKS SUPP.	1 50	IPP · 2	SUPP. 3	LOG
MTH DY HR M S	M S PHASE	M S PHA			A/T REMARKS * * * * * * * *
OCT 16 13 114 32.1 OCT 17 10		21 35			
OCT 17 13 119 25.5 OCT 17 18 138 05.4		40 32 60 33 F	PKS 63 36		
OCT 17 21 DI56 06.0		05 09	K3 03 30		
OCT 19 08 CI13 27.0 OCT 22 03 DI13 23.5	23 13 PCP	13 34 13 48	I 13 43	PP 16 20	1.9
OCT 23 07 DI18 41.0 OCT 24 14 I38 18.2					
OCT 27 02 140 13.3					
OCT 27 06 CI00 03.0 OCT 27 14 CI33 00.9		01 33 33 12	I 01 57	I 02 21	
OCT 27 23 DI56 38.5 OCT 29 02 DI45 47.1	50 50 PP	46 43	SS 52 36	PCS 52 56	1.7
OCT 29 06 140 20.8		40 32			
OCT 29 09 DI08 05.9 OCT 29 14 DI42 39.4	*PP	08 19 42 50			2.0
NOV 01 07 CI10 36.2 NOV 02 12 101 24.0	PP	11 39			
NOV 03 16 E36 17 NOV 06 01 C136 15.3	45 49 PPS	46 40	SS 50 43		
NOV 09 11 DI37 14.7 NOV 10 03 DI21 15.1	*PPKP	21 46			
NOV 11 15 DI40 50.9					
NOV 12 12 C159 40.5 NOV 12 19 103 47.7		59 50 03 51	PCP 60 25 I 04 11	PP 61 40 PP 05 33	2.2
NOV 13 03 CI03 25.3 NOV 15 00 DI17 51.1					1.9
NOV 18 18 DI09 54.7 NOV 18 18 CI50 43.6	52 18				
NOV 18 18 C150 43.6 NOV 19 05 C130 10.9 NOV 22 06 D138 33.5	*PF	30 25	E 51 42		1.8
NOV 22 09 101 49.0 NOV 24 19		23 19			
NOV 26 03 126 20.8	27 10				
NOV 27 03 CI04 20.7 NOV 27 20 I15 33.6	06 05 17 25				
NOV 28 07 145 57.6 NOV 30 13 DI02 38.0	04 10				
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DEC 11 19 DI57 22.7 DEC 11 20 E04 45	15 13 *P	P 57 38			
DEC 11 20 DI20 58.8 DEC 13 12 CI28 20.8 DEC 14 03 DI53 17.1	31 32	I 21 19 P 28 50	PP 29 54		1.8
DEC 14 14 DI55 03.3		1 55 05	1 55 14	PP 55 41	
DEC 14 21 E21 40 DEC 15 02 CI18 10.4	32 19 P	P 26 13 P 18 31	5 33 19	SS 70 37	
DEC 16 21 CI01 05.6 DEC 17 06 CI02 44.3	08 11 *P	P 01 12 I 02 50	PP 02 45	SS 11 44	2.0

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196 MTH		HR		PKP	SI	SKS	SUPP.	1	* *	SUPP	* *	* *	* * * *	* *	* * *	* * *	* * *	*
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DEC				30.3														
DEC				20.1			*PP	19	28									
DEC	20	15	C141	14.8			PCP			PP	43	49						
DEC	20	18	DIE	32.7														
DEC				30.5			*PP	51	42									
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DEC				27.7	15	03	SKKS	15	62	0.0					12.5			
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DEC	28			07	43	30	DVD	2.										
						30	PKP	36	48	PP	38	03	PKKP 46	23				
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DEC				26.8	48	48	PKP	41	47	1	42	07	PP 43	04				
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1967	P/PKP	S/SKS CUD	* * * *	* * * * * * *	* * * * * *	PAGE 1 * * * * * * * * LOG A/T REMARKS * * * * * * *
	Y HR M S	M S PHAS	F M C	SUPP. 2	SUPP. 3	LOG
* *	* * * * * * * *	* * * * * *	* * * *	PHASE M S	PHASE M S	A/T REMARKS
JAN 0	1 03 CI10 45.2				* * * * * *	* * * * * * * * *
JAN O			PP 2.6 24			10, /N 92, 8E
JAN O			I 58 33	PP 59 19		15,35 173,6W
JAN O			KS 16 05	LQ 27 47		30,6N 50,4E 10,9S 165,5E
			PP 53 03	I 53 30		20,3N 120,0E
JAN 0						
JAN 0		28 21	PP 23 36	SS 31 44		10.7N 62.5W
JAN O	5 00 DI49 45.5 5 06 CI25 09.3			00 01 44		48 TN IUZARE
JAN O		F	P 28 09			48,4N 103,1E 13,8N 120,7E
	0 00 0103 30.2					2.0 48.1N 102.9E
JAN O		*0	P 14 11			1011N 10219E
JAN O	7 00	PK	5 50 06			41,8N 143,3E
JAN 0						48,85 112,7E
JAN 0	7 13 C147 29.1 9 02 D103 26.9	*P	P 47 40			48,2N 102,8E
0	02 0103 26.9		I 03 40			11.8N 142.7E
JAN 11	06 106 59.5					27,7N 54,5E
JAN 11	11 CI27 51.3	33 30	1 27 64	74 70 75 76		00,15 120,1E
JAN 14	15	*0	I 27 56 P 36 24	*PP 28 02	PP 29 18	34,1N 45.7F
JAN 17			30 24			44,6N 81,5E
JAN 17	12 CI09 46.2	18 04 *p	P 09 58	PCP 10 26	00 12 44	27,45 63,3W
JAN 18	05 DI41 59.7			10 20	PP 12 06	38.3N 142.1E .
JAN 18	08 (128 07 3		P 42 08	PP 43 24	PCP 44 04	E6 (N 120 05
JAN 18	08 DI38 52.9	*P	P 28 17	PCP 28 52	I 29 19 2	56,6N 120,8E •2 52,5N 168,3W
JAN 18	21 DI57 00.6					52,5N 168,3W
JAN 19	14 DI51 20.3	PCI	52 15			48,1N 102,9F
JAN 20	00 000		15			52,4N 169,6E
JAN 22	02 D104 57.3 12 E09 24	10 51	05 03	PP 06 26	PCP 07 05	
JAN 22	12 CI21 16.3					48.0N 102.9E
JAN 22	12 DI23 36.8	PCF	21 30			48,1N 102,9E 08,8N 93,7E
JAN 24	03 CI15 30.3		15 34			48,0N 102,9E
			13 34	I 15 50	PCP 16 20	41,4N 141,9E
JAN 24 JAN 25	09 CI41 08.2	51 12 *pp	41 22	1 41 42		
JAN 26	01 CI57 27.5 16 CI23 13.1	63 12 *pp	58 25	PP 58 57	PCP 59 30	00.65 21.0W
JAN 28	01 DI51 15.5			The same state of		36.6N 71.6E 15.0N 92.8W
JAN 28	14 DIO2 42.9	10 38 1				15.0N 92.8W 24.8N 121.8E
		10 30	02 48	PCP 03 38	PP 04 37	52,4N 169,5W
JAN 28	14 CI15 41.7	*PP	15 54			
JAN 28 JAN 28	14 DI33 11.0					52,3N 169,5W
JAN 28	14 DI40 10.4 14 DI51 07.4					52,4N 169,4W
JAN 28	16 DI41 08.2	25 20 204	No de			52,5N 169,4W 52,4N 169,5W
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JAN 28	17 CI29 19.4					10375
JAN 28	17 136 20.2					52,3N 169,5W
JAN 28 JAN 28	17 DI51 46.0	I	52 02			52,3N 169,4W
JAN 29	22 DI36 47.9 04 E02 19					52,4N 169,4W
	04 202 19					55,0N 160,2E 26,5N 55,3E
JAN 29	08 CI04 57.6 1	11 44	05 27			20,34 33,35
JAN 30	01 DI26 37.2 3	11 44 I 31 38 pp	29 14	PP 06 42	SS 15 11	26,5N 55,2E
JAN 30 JAN 31			-, 14	E 36 16	E 36 48	41,0N 44,2E
JAN 31	03 DI43 11.6					26,2N 96,2E
JAN 31	17 C153 48.2					47.9N 102.8E
JAN 31	19 CIC8 46.7					42,8N 145,4E
FEB 01	01 CI15 41.5					26,5N 55,3E
FEB 01	15 C132 47.9					26,7N 55,3E
FEB 02	06 CI44 55.8	PP	47 25	PKS 48 36		4,85 103,2E
FEB 02	07 C145 12.3	I	45 26	E 60 52		57,9S 25,7W
FEB 02	16 (124 14 0					39,7N 75,7E
FEB 03	16 CI34 14.0 4 13 E00 18 1	1 57 I	34 19	1 34 32	PP 36 21	41,6N 139,7E
FEB 04	15		41 00			JAVA SEA
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FEB 06	03 135 24.5					25,5N 142,7E
						60,1N 152,8W

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MTH C	Y	HR	M	S	M	S	PHASE	M	S	PHASE	M	S	PHASE	. !	1 5	A/T	REMA	
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FEB (20.5			*PP	02	47	PCP	03	36					56,7N	
FEB (32.9			I	24	43	SCS				26				20,3E
FEB (15	C137	53.3	48	44	1	38	04	*PP	38	07	PP	41	39	2.2	2,9N	74,9W
FEB :	10	05	C158	37.1													41,6N	86,2E
FEB	10	06					1	53	46								SVALBA	RD
FEB			D149	07.0				49								1.8		159,5E
FEB	11	.09	D134	51.0			1	34	56	PP	36	15						106 + 2E
FEB		15	125	47.1				24	22							2.2	30.5N 79.6N	50,7E 3,4E
FEB	11	15	C134	13.2	36	17		34	23									
FEB	13	11	E31	29														139,7E
FEB	13			58.8	25	54			07	I	21	20	PP	22	14		52,7N	34,1W
FEB			E47				1	47	26								13,7N 34,5N	96,5E 47,6E
FEB FEB			E07	31.9													20,4N	94.1E
120	10																	
FEB			E24			48				PPP	30	18	PKKP	40	16		9,05	71,3W 125,6E
FEB	17	00	E50	30				50	41								28,8N	
FEB		10	C116	34.1				30	08	PP	32	22	PKS	33	30		23,75	
FEB				43.8				1									42,0N	83,5E
		10															0.25	112.15
FEB		22	127	55.5	38	20	134	28	25	PP	31	44	55	45	35			113,1E 124,2E
FEB				24.0	32	17		26	52	1	27	25	PP	28	26	2.1		75,3E
FEB				26.6	33	.,		24	32								14,1N	146,4E
FEB				49.9													33,6N	75,3E
																	1.5N	127,2E
FEB FEB				57.9													NEVADA	
FEB				57.8			*P	50	08							1.8		128,5E
FEB				52.2														139,1E
FEB		11	133	46.1													00,05	123,9E
FEB	25	11	DIST	41.6													00,15	123,9E
FEB				10.1			PI	N 05	05							2.5		78,1E
FEB	27	21	E06	17							9.00						RUMAN	141.7E
FEB				08.7		03	*PI	48	3 21	SCS	58	04					28.3N	57,1E
MAR	01	10	0120	57.5														
MAR	02	03	C100	48.9														78,7W
MAR				54.8				1 57	7 06	I	57	14						160,5E
MAR				47.8	20	32		1 20	36	,	21	35						121,8E
MAR				20.6	09	22		1 04	4 30	PP		27	PCP	07	21		39,2N	
HAN	-	-	010															127 /5
MAR				25.2														137,6E 95,8E
MAR				53.2														125,6E
MAR				12.7													24,4N	142,8E
MAR		07					SCS	2	7 58								10,65	166,3E
																2.0	28.7N	138.7F
MAR				36.5												2.0	36,4N	70.7E
MAR				27.4			*P	P 5	7 39	,							19,1N	95 . 8W
MAR	11	17	DIO	22.0)												28,4N	94,4E 143,0E
MAR	12	03	DIO	45.4													42,0N	143,02
MAR	12	16	DIE	47.0)													165,4W
MAR				14.9				I 3	1 30)							19,7N	
MAR	13	21	D14	7 09.7	7											2.0	82,2N 28,4N	
MAR				7 35.5		5 11			7 57		56	5 20				2.0	82,5N	
MAR	14	07	15.	10.0	,):	, 52	3	,	0									
MAR	18	18	CIO	06.9	,													139,8E
MAR	19			1 24.6		9 08	PC	P 1	2 0.	7 55	23	3 13						151,3E 151,4E
MAR				1 19.0														151,5E
MAR				1 53.				1 0	2 0	5								151,5E
HAR	-				113									1				

	KI	RKENES IKE	RK) SEISMIC STA	TION BUILTY		
* * * 1967						
MTH DY	HR M S	M S	DHACE M C	SUPP. 2	SUPP. 3	.OG
* * *	* * * * * *	* * * * *	* * * * * *	* * * * * * *	PHASE M S	* * * * * * * *
MAR 20 MAR 21	22 DI05 09.1 18 CI24 18.9				10.00	36,3N 139,7E
MAR 24	09 CI12 31.1	22 05	I 12 45	*PP 14 40	50 24 04	6,8N 73,0W
MAR 25				14 40	SP 24 04	6,05 112,3E KAZAKH USSR
MAR 25	22 157 45.4	65 46				45,5N 151,4E
MAR 27	09 CIO7 40.1	15 14	1 07 48	*PP 07 53	SS 19 05	
MAR 29 MAR 30	01 I20 08.5 02 DI21 39.4				33 19 09	38,4N 116,5E 4,85 103,2E
MAR 31	02 DI22 06.9					11,0S 115,5E
MAR 31	07 106 42.1					52,1N 1697W 12,8N 123,1E
MAR 31	09 125 06.0					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MAR 31	20 E23 54					51,8N 176,2E
APR 01 APR 01	06 I04 04.3 06 DI06 51.5		PCP 05 05			15,4S 167,5E 45,8N 151,8E
APR 01	12 DI46 19.2	14 08	1 07 07			46.3N 152.0E
						63,7N 18,9W
APR 03 APR 04	07 147 18.0 04 CI04 13.5					19,9N 38,5E
APR 04	09 CI16 04.5					45,5N 152,2E
APR 05	02 DI46 18.9		*PP 46 33		1	33,4N 137,5E 5 20,0N 147,1E
APR 05	03 DI00 02.9		*PP 00 16		•	20,0N 147,1E
APR 05	03 C102 07.5					
APR 05 APR 06	22 DI49 08.8 06 I28 07.2					MARIANA ISL. 53,25 140,6E
APR 06	12 DI34 07.9					34,4N 139,0E
APR 06	13 DIO5 02.7					20,1N 147,2E
APR 06	14 114 02.5					30,1N 50,9E
APR 06	23 CI39 28.5					16,3N 98,0W
APR 06 APR 07	23 DI42 35.4					34,3N 139,1E 36,3N 140,5E
APR 07	17 113 44.6 18 140 01.8					37,4N 36,1E
						37,4N 36,2E
APR 08 APR 09	20 DI26 31.6 00 I18 48.1					05,7N 126,9E
APR 10	20 106 36.0		PCP 07 48			04,05 135,8E
APR 12	05 103 26.0	13 08	P 03 33	PP 06 31	SS 18 38	58,6N 154,3W 05,3N 96,5E
APR 13	20 DI04 36.4			PCP 04 55	00 10 30	27,3N 128,7E
APR 20	04 DI14 10.5					
APR 24 APR 24	08 DI58 41.3 15 CI21 27.4					49,7N 78,1E 37,4N 72,7E
APR 25	10 DI38 00.6		*PP 38 15			42,4N 131,0E
APR 27	14 127 28.2		77 30 15			43,3N 87,0E
APR 27	23 DI22 41.4					72,0N 0,8E
APR 28	19 DI46 39.1					41,7N 82,3E
APR 29 MAY 01	04 DI05 05.4					28,5N 57,5E 51,4N 178,3W
MAY 05	07 DI15 15.2 00 DI17 53.3	20 18				39.7N 21.3E
MAY 05						29,2N 103,5E
MAY 05	17 114 36.0 17 E51 19					63,7N 148,5E
MAY 06	14 112 23.0					08,0S 107,2E
MAY 08 MAY 09	18 DI55 17.5					19,3N 70,0W
MAT U9	21 DI42 45.0	53 12	*PP 43 17	S 53 36		36,4N 70,2E 05,2N 127,5E
MAY 11	14 158 17.0	64 24	P 58 20	P 58 22	PP 59 44	20 (1) 70 00
MAY 11 MAY 12	15 DI34 46.2				79 44	39,4N 73,8E
MAY 13	17 DIO8 17.9 04 I17 43.1					52,9N 167,0W
		35 44				18,9N 145,4E
MAY 14	04 DI22 26.8					56,5N 152,6W
MAY 14	05 CI22 08.6					37.7N 21.2E
MAY 14	09 108 13.1					27,5N 139,6E 39,2N 73,9E
MAY 15	00 124 24.0 02 DI38 25.3	47 16				32,9N 141,4E
						32,5N 141,4E

* 1		* *	* *	* * *	RKENI	ES (1	KRK) SEI:	SMI *	C 51	TATION !	BUL	LETI	N - 1967 * * * * * SUPP	* * *	* *	* * * 1	PAGE 4
MTH	DY * * 15 16 16 17	HR * * 08 16 19 00	* * * 119 115 DI35	\$ * * * 48.7 55.9 48.7 04.5	* *	5	PHASE	M	S	PHASE	M	S	SUPP PHASE	M S	LOG A/T * *	* * * * * * * * * * * * * * * * * * *	ARKS 26,7E 19,1W 141,3E 143,7W 44,2E
MAY MAY MAY MAY MAY	18 18 18	04 14 23	CI59 DI16 CI10 DI49 CI03	51.2 52.2 50.4												41,9N 42,0N 31,1N	38,7E 144,6E 144,7E 130,7E 146,0E
MAY MAY MAY MAY MAY	20 21 21	18 18	DI19 I42	41.8 07.3 12.0 25.9 11.4	67	24	PG *PP				19					01,05	65,7W 33,4E 69,7E 101,5E 150,2E
MAY MAY MAY MAY MAY	23 27 27	. 12	136 DI50 I50		40	24	I *pp	04		PCP	33	35	PP 34	42		39,9N 36,2N	5,6E 27,3W 77,3E 71,5E 176,1E
MAY MAY MAY MAY	28 28 29	01 07 04	D141	49 26.6	19	58	PP	15	22	SS	23	06				52,1N 16,6N 11,9N	77,8E 175,0E 146,6E 143,3E 145,7E
MAY YAM NUL NUL NUL	31 01 01	16 03 10		43.4 55.0 14.3	53	36	PCP	46	52	РРР	49	47				11,4N 53,7N	60,3W 125,5E 165,6W 160,6E 29,2E
NUC NUC NUC	02 03 04	05 09	DI35 DI16 CI19 DI36	42.3 05.0	26	28	I *PP		15	PP	17	29				51,4N	88.1E 47.5E 151.2W 159.3E 174.5W
NUC NUC NUC NUC	09 12 12	11 03 21	CI41 DI34 E20 CI30 DI32	44.8 17 29.3	41 40											4,0N 3,0S 3,1S	170,3E 126,0E 100,6E 100,6E 154,3E
NUC NUC NUC NUC	13 13 14			45.6 55 06												3,05 78,6N 45,3N	126,4E 100,6E 8,2E 136,9E 146,8E
NUC NUC NUC NUC	17 19 20	17		29.7	26 25	01 30	PKP2 *PPKP I		56	PP PCP	21	47 25	SKP 22 PP 19	2 24		58,35 52,7N 52,9N	147,3E 26,6W 166,9W 166,9W 167,1W
NOC NOC NOC NOC	20 20 21	07 07 15	DI45		56 67	28 26	PCP			PP *PP			PPS 68	3 44		52,9N 52,8N 12,7N	166,9W 166,9W 167,1W 123,1E 144,0E
NUL NUL NUL	21 21 21	18 18 18 19 22	121	11.2 24.0 07.1		16	*pp *pp *pp I	21 33 31	30 12 13	PP	23	06				64,8N 64,8N 23,5S	147,4W 147,4W 147,4W 180,0E 10,4E

	* *	. *	* * *	* *	* *	* *	KRK) -SEIS * * * * SUPP•	SMIC *	51	AT ION E	ULL *	ETIN * *	- 196 * * *	7				AGE 5
							SUPP.	1		SUPP.	2		SUPP	. 3				
MTH D	Y	HR	M	5	М	S	PHASE	М	5	PHASE	М.	5	PHASE	M	5	A/T	REMA	KKS
					* *	* *	* * * *	* '	* *								5.05	130,5E
			D118				PP	22	43								12,5N	
JUN 2	24		C113						-									
JUN 2	24		C115					15									11.4N	
JUN 2	25		C130				*PP	30	50								12.4N 51.3N	
JUN 2	27	20	D142	45.6													51 , 3N	180,0W
							0400										47.05	165.8F
JUN 2		14					PKP2	53	48									15,3W
JUN 3		00	117					0.2										98,7E
JUL (D141				*PP	41	34								0.85	161.0W
JUL (C131				10.00	100					000	21	1,18			158,0W
JUL (01	23	CI19	44.6	27	32	*PP	19	55	PP	21	52	SS	21	10		34,4N	130,0%
																	54 - 5N	158.0W
JUL (C145										00					93,8E
JUL (C115		24	44	*PP	15	31	PCP	15	36	PP	11	28		8,7N 33,2N	75,6E
JUL (02		C140										00					142,5E
JUL (C151	44.6	59	26	*PP			PCP	25	36	PP	23	25			21,3E
JUL (05	01					E	00	08								36,8N	21,35
																	61 - 6N	157,9W
JUL			C112															
JUL	06	05	C114	48.6			*PP								0,00			147,4W
JUL	06		D152		60	20	PCP	53	06	PP	54	24	SCS	62	16	2.2		168,2W
JUL	06	13	D156	38.1														168,1W
JUL	07	13	D140	48.6													8,7N	126,1E
																	25 54	07 05
JUL	07	23	E57	47														87.8E
JUL	08	01	C117	29.1														167.5E
JUL	08	06	E41	45														166 + 8E
JUL	09	05	CI33															144,7E
JUL	10	12	E13	43													5,95	113,1E
																	A ON	127-15
JUL	10	19	C130	51.8														127,1E
JUL	11	13	E35	47														173,9E
JUL	12	10	E41	35														161,1W
JUL	12	21	E13	30	24	08	S	24	42	SS	30	48	SKKS	37	46		5,6N	
JUL	13	02	DI17	38.6													35,5N	0,1W
																		70 154
JUL	15	03	133	09.1													49,8N	78,1E
JUL	15	08	E24	43														176,8E
JUL	15	14	D153	11.6														126 • 3E
JUL	15	15	DI18	16.5	19	36											74.0N	9,1E
JUL		13	D147	48.2	59	06	1	48	16	PP	51	32	S	59	34		0,85	132,6E
																	107.0	
JUL	17	12	D146	23.5														142,1E
JUL	18	17	D109	24.6														142,4E
JUL		17					E	15	02	2								140,8E
JUL	19	17	C135	44.3													36,5N	70.3E
JUL	20	09	112	10.0													56.5N	153,3W
																		170 25
JUL				57.6		20			5 53									178,3E
JUL		15	D149	11.0	59	48			9 13		49	21	PP	52	44			134,9E
JUL	20	23	,						3 35									178,5E
JUL	22	04	E17	24			PF	20	28	B PKS	21	08						179.0W
JUL	22	11	E04	12													51,4N	1,3E
																		20 05
JUL	22	17	C102	59.0	07	56											40.7N	
JUL		17						E 5	4 33	3							40,6N	30,7E
JUL		18	E15	57													40,8N	30,4E
JUL	23	03	E27	33														167,1E
JUL	23	14	E07	59													56,25	158,3E
																	13.6	
JUL	26	09	C132	43.0	34	13											73,4N	
JUL		18	DI59	15.5	64	20	*P	P 5	9 2	5 PF	60	12	SS	65	48		39,5N	
JUL				03.6														145,4E
JUL	28		E39														63,9N	
JUL				45.8	1												2,1N	98,0E
													1 3 3 6	1				72 011
JUL	29			58.7		12	*P	P 3	7 4	1 PF	40	32	S	47	34		6,8N	
AUG		00	DI54	11.0				146		100	1			4	2.5			146,4E
AUG		11	1 DIO	37.0	12	08			9 4			56			-44		71,2N	
AUG				17.3		46	*P	P 0	9 2	6 PI	09	33	Ε	13	48		71 , 2N	
AUG			4 144	4 04.0)												74,6N	9,8E

	* * 1				0 4	* * *	148	Noi					KIRKE			
AL AL AL	H DY H * * * * JG 04 0 JG 06 1 JG 10 1 JG 11 1	* * * * * * * * * * * * * * * * * * *	P/PKP M S	* * * 6 1 5 1	S/SKS	SUPE	• . 1	HAS a a	* * * * SUP	P. E *	* * * * * * * * *	IN - 196 * * * * * SUPP PHASE * * * *	3 M S	LOG	* * * KAZAK 38,0N 45,4N 22,1N	ARKS * * * * H USSR.
AU AU			8 42.		55 44	F	P 6	1 06	s sk	P 6	1 58	SKKS 6	7 48		24,75	
NE AU	G 13 2	0 CI1	6 37.	2 2	9 28	PC	P 1	7 14	*P	P 1	8 04			2.8	37,0N 35,3N	71,4E 135,3E
	2 11 C 1 W	9 DI3	0 11.	6	00										43,2N 31,1N	0,5W 93,7E
AU	G 16 1 G 17 2 G 18 0	9 I3 2 I5 3 I4	5 19. 1 16. 1 08. 6 49. 9 15.	6	99							92 60			0,9N 59,4N 27,8N	132,4E 98,9E 151,4W 127,7E 151,0W
AU	G 18 0	2 0	9 08.0		_ 26	25.4	2 01	q				05 08				125,8E
AU	G 19 0	7 11	6 12.3	3 1	7 22 7 16 0 36	**							1 6	000		SEA
38AU	G 19 1		0 27.7	7	0 36	*P	4(45	PP	43	38	PPS 5	1 36		10,4N 12,4S	126,0E
AUC	19 16	C108	9 57.0	1	4 26		N 31			31			0		ARCTIC	
AUC	21 13	3 145	59.5	,	4 50	*P!	45	09		47		SS 59	58	2.3	45,3N 03,6N 57,0N	95.8E 4.9E
AÚC	24 0 03		1 18.7		8 16	PF	24	14	PKS	24	56	SS 42	04		60,85	24,6W
AUC	24 17	125	55.3		SKIS	84 0	26	11	*PP	26	38	80 as		1.8	43,5N MARIAN	
AUG	26 00	D149	18.7	59	9 44	PP	52	46	PS	61	48	SS 65		2.7	12,2N 12,2N	140,7E
	26 02		45.9											153	12,2N	JUL
	27 13 27 13 27 14	CT1.1	53.9	0.0	30	99*			SKS	31	30	PS 33	10	0153	12,3N 50,2N	86,2W
	28 . 07	143	57.7											0146	0,5N 1 12,2N	126,1E
AUG	28 21 28 21		46.5						50 83	3				6010	36.5N	80,1E
AUG	29 07 30 02	116	15.1											5112		SEA
20.00	30 11		27.7		08	15 64	31	31	PP	33	31	SS 42		D135	35,6N 1 31,7N 1	
AUG	30 13	143	12.0		04	PCP	44	09	scs	53	18		22 +5		31.6N 1 45.4N 1	
AUG			29.0			-	54	15					21	£04	18,7N 1	
SEP	030.94			32	32	PP	26	06	PS	35	34	PPS 36			34,45 1	79.0E
SEP	06 05	106	15.5			PP	14	06					33	E27	10,65 31,45 1 35,0N	79,4W
SEP		D134	03.5			*PP	41	16				£1 60			14,7N 52,6N 1	93.6E 68.5W
SEP	07 07 08 22		01.2		00	\$ *PP						.04.20	15 5	0159	02,7N 1	24,3E
SEP	09 08	149 E20	41.7	30	22	PCS			PP	25	45		6 54	68.4	MARIANA	ISL.
acres.	09 14		33.8			SS	72	48	12 10	99		47 12	60	2210	ARGENTI	40,7E
SEP	15 00	DI50 I39	06.5	47	36	*PP PS	51	52 56	09 A7			12 08	0 16	0109	52,7N 1 35,6N 1	72,5E
SEP	15 10 16 04	CI14 DI42 DI10	15.1									30 11	17 3	144	28,3N 1:	39,6E 91,8E
															50 + ON	77,8E

				KI	RKE	NES	KRK) SE	ISM	IC S	TATION	RII	115	TTAL	_ ,,					
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19	67		F	PYPKP	S	/SKS		SUPP	. 1		SUP	P.	2		SU	op.	3	1.00	* * *	* * * *
M I	H DY	H	R	MS		M S	Р	HASE	M	S	PHAS	E	M S	5	PHAS	SE	M	S A/1	RF	PAGE 7 * * * * MARKS * * * *
SE	P 17	0	8 10	8 54.0	*	* * '	* *	* *	* *	* *	* * *	*	* *	* *	* 1	*	* *	* * :	* * *	* * * *
SE	P 19	1	1 DIO	5 54.8	1	3 48		DC	0 0										17,2	N 94,1W
	P 19	1	9 11	4 14.4		3 40			0	0 46	P	PO	8 00)	1	2	5 06		43,0	N 145,2E
	P 20		0 14	3 03.5																S 100,5E
SE	P 20	0	9 E5	8 58				S	5 8	2 06	SS	5 8	7 57							N 139,9E
	P 20										18.19.1								49,8	S 163,4E
	P 20		0 015	0 42.4															40.8	S 163,4E
SE	P 20			6 05.2 28.8															20.8	5 169,8E
SE	P 20			8 09.5															49,8	163,5E
	P 20			6 45.9															49,75	163,6E
																				163,9E
SE				0 07.5																
SE		90		9 59.6															50.01	
	P 22	10	12	7 46.1	35	40		PPF	31	28	SC	5 3	7 36		SS	39	50		0.75	
	P 25	07	12	1 54.1												-	-		44,5	149,4E
32	23	0	11	3 10.2															09.81	126,6E
SE	25	09	DIO	3 23.4																
SE	25			3 33.8															17,7N	61,6W
	25	13	DII	5 54.0																145,4E
	25	17	CII	5 35.6																126,6E
SEI	26	06	D156	35.8														1.9	3,2N	125,5E
		***																	46,9N	150,6E
	26	11		18.3															33,65	70.5W
	02	16		11 49.4				55	48	22									30,05	
	03	18		52	30	32		PKS	34	14										178,8W
oct	04	17		32		10		PP	32	22	PPP	34	28		PS	40	54			85,9W
					***	10		PP	39	28	PS	49	12						5,75	153,9E
001	05	19	117	08.3																
001	06			18.4															74,4N	9,0E
	09	14	DI19	17.5															10.35	66,4E 155,1E
	11	17	136	34.0	46	51		PKP	39	44	PP	41	58	-	PKS	43	08			179,3W
oci	11	16	C103	21.4													•			142,6E
OCT	12	06	C152	02.6															307411	142,05
OCT	12	13	D102	07.1	0.8	48		*555	25	26									21,15	179,2W
OCT	12	18	D145	18.2	55	46		*333	48	36									52,2N	152,5E
OCT	14	03	C142	52.9					40	22										129,8E
OCT	15			21.9	23	48		PP	16	48	PS	24	54		ce	20				60,8W
OCT												24	74		SS	29	36	2.4	11,9N	86 , OW
OCT	18	22	C114	34.3	16	36		PP	14	46	LR	17	28						79.8N	2,4E
OCT	21	05		03.4																179.6W
OCT	23		D137	28.6	45	56		00											73,4N	
OCT		11	D103	52.4	7,	20		PP	34	54								2.4	28,9N	139,1E
																			3,15	101,5E
OCT		01	D110	16.6	19	12		*PP	10	32	PCP	10	43		PP	12	49		24 54	122 2-
OCT	25	02	D108	17.4									75			12	40		24,5N	122,2E
OCT	26	00	DI33	16.1															24,3N	122,2E
OCT	26			10.6															00.25	122,2E 125,2E
oci	30	06	D110	10.1															49,8N	78,1E
NOV	02	03	C107	47.4	09	20													.,,,,,,,	.0,12
NOV		07	D151	20.0	09	20													73,2N	7,7E
NOV	04	10	D135	12.5															18,75	169,0E
NOV		13	C137	06.9	45	30													17,85	179,0W
NOV	04	14	D140	24.5	48	44		scs	50	24									37.4N	141,6E
NOV	00	-																	43.5N	144,1E
NOV		03	C123	17.0															16.8N	85,9W
NOV		17	D119 E32	14.6															51,1N	
NOV			D131																51,1N	178,4F
NOV	09	07	E56																07,25	123,6W
				1															54,8N	162,1W
NOV		18		00.5															25	
NOV		11	D142	12.4				*PP	42	23									35,5N	
NOV		18	E50	49															10,4N 06,0S	
NOV		05	D154	06.0															10,4N	26.55
1404	14	05	E42	19															05,45	147.1F

			KI	RKEN	S (ATION I									
1967			PKP	360	SKS		SUPP.		* *	SUPP			SUPI						
MTH D	, HE				S					PHASE			PHASE						ARKS
* *		* *			* *					* * *									
NOV 1			15			00	80 9	-	-				Go Le L			241			123,78
NOV 1			43	57	39		DD	52	21	SCSD	61	52	SS				000		71,2
NOV 1			47		48			22	21	SCSP	01	25						28,5N	
NOV 1			22.0	10	40	57	DD	50	28	PKS	61	44							170,98
NOV 2			14.6	0.5	39			50	20	FKS	21	44							8,58
NOV Z		C104	14.0	05	29												9.01	12,1N	0,50
NOV 2	3 08	C145	39.7	53	32		PP	47	52	PPP	49	10	SS	57				14.5N	52,18
NOV 2			04.8		20		PP												1,00
NOV 2			59.9						-							156			130,08
NOV 2			43.4													0			127,88
NOV 2			14.0				PCP	47	46					5					130,88
	00																		130,00
NOV 3	0 07	D129	48.3	34	38		PP	30	36	1	39	10						41.5N	20,58
DEC 0			16.1		42	36	PPP			SCP			SCS						154,48
DEC O			41.6					- /	-			•	000						20.38
DEC 1			20.7	0.9	26		PP	02	06	PPP	04	53	SS	13	22				73,98
DEC 1			57	26			PPP				-		00						124,6
000			-		-0				10								3 40	+0 , 514	124,0
DEC 1	1 22	140	07.1	47	52		PPP	43	36									13.6N	51,68
DEC 1			47.4				PCP												152,68
DEC 1			05.6					40	40										168,78
DEC 1			18											(0)					160,48
DEC 1			45.2											*	53.4				71,48
	187																		933
DEC 1	3 14	C117	04.5															12.1N	143,68
DEC 2			31.3							5 34 I	N'S								93,08
DEC 2			10.0	62 6		82	PKP	44	08	PP	44	50							70.00
DEC 2	3 17	C126	39.8			21	5 tr. C					1004							125,58
DEC 2			48.4	24	28		PCP	15	07	SS	29	14			80				61,1%
100	PAR										-							att	
DEC 2	21	C144	09.5																61,3
DEC 2			37	42	10	0				P 39 40	×c		18 66						153,78
DEC 2			10.0	42	54	00	SKKS	43	52	SP	46	26							68,34
DEC 2			51							PKS			PS						174,8
DEC 2			57	45	44					SSS									128,8
2-1-1	115									5 11 2			84 80						Y30
DEC 3	04	124	58.2										20		81		0 6	44.7N	12,28
															53	Car			1300

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PP 12 48