UNIVERSITETET I BERGEN

JORDSKJELVSTASJONEN

(Seismological Observatory)

Seismological Bulletin Kirkenes, Norway 1964—1965

By

ANDERS SØRNES and EIRIK SUNDVOR

BERGEN - NORWAY 1968

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Kirkenes (KRK), Norway

Latitude:

69° 43° 27° N

Longitude:

30° 031 4511 E

Elevation:

25 meters

Foundation:

Gneiss-granite

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

Instruments	Period Tg	l sec T _s	Magnifica- tion at T _S	Damp.
Sp Benioff	0,75	/1	25.000	17:1
LP Sprengnether	100	30	1.500	critical

The station is located in security room near the center of Kirkenes. It has been in normal operation since January 1964. 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.

06 09 10 112 115 18 19 20 20 22 22 24 80 90 20	23 03 05 06 21 12 09 04 17 04 16 17 14	* * E54 E09 C100 109 C147 I15 D122 I59 I27 10	PKP S * * * 40 15 45.2 55.2 09.9 49.4 09.0 21.2 20.7 15 47.0	* * * 62 08 56 25	SKS * * 09 50 14 47	PCP PCP	M * 73	* * 28 04 39	E	* * 35	5	SUF PHAS		M C	LOCA/
06 09 110 112 115 18 19 220 220 222 224 28 80	* * 23 03 05 06 21 12 09 04 17 04 16 17 14	* * E54 E09 C100 109 C147 I15 D122 I59 I27 10 D108 C126	* * * * 40 15 45.2 55.2 09.9 49.4 09.0 21.2 20.7	* * 62 08 56 25	* * 09 50 14	* * * # L PCP PCP PCP	73	* * 28 04 39	* * *	35	* *	* * 1	* *	M 5	
06 09 110 112 115 18 19 220 220 222 224 28 80	23 03 05 06 21 12 09 04 17 04 16 17 14	E54 E09 C100 109 C147 I15 D122 I59 I27 10 D108 C126	40 15 45.2 55.2 09.9 49.4 09.0 21.2 20.7	62 08 56 25	09 50 14	PCP PCP PCP	73	28 04 39	E	35	56				
10 12 15 18 19 20 20 22 22 24 28 30	05 06 21 12 09 04 17 04 16 17 14	C100 109 C147 I15 D122 I59 I27 10 D108 C126	45.2 55.2 09.9 49.4 09.0 21.2 20.7	56 25	14	PCP PCP	01	. 39	E	21					
12 15 18 19 20 20 22 22 24 28 30	06 21 12 09 04 17 04 16 17 14	109 C147 I15 D122 I59 I27 10 D108 C126	55.2 09.9 49.4 09.0 21.2 20.7	56 25	14	PCP	47				50				
15 18 19 20 20 22 22 24 28 30	21 12 09 04 17 04 16 17 14	115 D122 I59 I27 10 D108 C126	09.9 49.4 09.0 21.2 20.7	25		PCP		31	DO						
19 20 20 22 22 24 28 30	09 04 17 04 16 17 14	DI22 159 127 10 DI08 CI26	09.0 21.2 20.7 15		47		16		PF	49	49	F	78	8 50	
19 20 20 22 22 24 28 30	09 04 17 04 16 17 14	DI22 159 127 10 DI08 CI26	09.0 21.2 20.7 15		47		16								
20 20 22 22 24 28 30	04 17 04 16 17 14	159 127 10 D108 C126	21.2 20.7 15	12		55		13							
20 22 24 28 30	04 16 17 14	127 10 D108 C126	20.7	12			32	10	LR	36	30				
22 24 28 30	16 17 14	D108 C126		12		PP	29	42							
24 28 30	17 14	C126	47.0		06										
24 28 30	17 14	C126	7100	16	54		00								
30	14		42.4	10	24		00	57							
	17	DITE	31.7	22	22										
11		C 52		57	50			100							
-	09	105	48.8			I	06	15							
)5	11	140	39.5												
)6	13	CI16	53.5	24	32				PP	18	30	PPP	19	43	
16	13														
3															
			3402			LO	13	12	LR	14	23				
4	16			54	28	PP	48	10	PS	57	29				
6															
0	10	139	10.2			1	13	31	,	27	13		20	27	
3	22			59	56								27		
5	04	***	20 2												
6						*00	27	42							
7	15			29	08				PPP	24	47	PPS	62	46	
8	17						1								
3	07	155	28.8												
3	10	157	28.6												
3	21	152	10.6												
5	10								I	22	36				
4 5						I	24	06							
	00	-100	2002												
						I	38	15	I	38	39				
						PCP	46	57	DD.	47	42			4.5	
									PP	41	44	LQ	28	45	
						PP	59	26	10	81	32				
1	15	C116	32.8							-	-				
2	04	158	33.7												
1	12	102	37.6			,	03	07	,	03	49				
1	03	132	35.3	40	07	PCP	33	41		33	7,				
												LQ	32	30	
			-000	-			-4	43	Lu	43	30				
									PP	44	19	LQ	53	28	
												LQ	14	25	
												LQ	62		
				02	+0										
11223	673 469903 566783 335545 555539 001112	6 13 77 01 3 14 4 16 6 6 00 9 10 9 10 3 22 5 04 6 18 7 15 7 15 8 07 3 21 15 6 08 6 18 7 15 7 15 8 07 9 09 9 10 9 10 9 10 9 10 9 10 9 10 9 10	6 13 123 7 01 157 3 14 100 4 16 143 6 00 125 9 12 159 0 10 3 22 5 04 114 6 18 D127 7 15 120 7 15 120 7 15 120 7 15 120 8 C106 6 22 D137 7 01 C113 6 08 C106 6 22 D137 6 01 C113 6 08 C154 7 15 C150 7 15 C150 7 15 C150 7 17 C150	6 13 123 12.9 7 01 157 06.4 3 14 100 34.2 4 16 143 55.0 6 00 125 00.5 9 12 159 16.2 10 3 22 5 04 114 38.3 6 18 D127 14.9 1 15 120 53.9 8 17 157 39.3 8 07 155 28.8 8 10 157 28.6 8 21 152 10.6 10 122 23.0 15 123 35.8 10 157 28.6 21 152 10.6 10 122 23.0 15 123 35.8 10 157 28.6 21 152 10.6 10 122 23.0 15 123 35.8 10 157 28.6 21 152 10.6 22 D137 54.9 10 113 50.8 20 01 C113 50.8 20 02 15 22.9 21 17 C150 49.2 21 19 C111 10.4 22 19 C111 10.4 23 155 18.7 24 10 23 37.6 25 10 123 30.2 26 16 D109 15.7 27 12 102 37.6 28 15 18.7 29 17 18 32.8 20 10 123 30.2 21 16 D109 15.7 22 C142 26.0 23 00 D149 56.5 24 08 D149 56.5 25 17 155 34.0	6 13 123 12.9 7 01 157 06.4 3 14 100 34.2 4 16 143 55.0 54 6 00 125 00.5 9 12 159 16.2 0 10 3 22 59 5 04 114 38.3 6 18 D127 14.9 7 15 120 53.9 29 17 157 39.3 07 155 28.8 3 10 157 28.6 3 21 152 10.6 5 10 122 23.0 4 15 123 35.8 6 08 C106 10.2 6 22 D137 54.9 6 10 122 23.0 6 15 123 35.8 6 08 C106 10.2 6 22 D137 54.9 7 15 120 33.6 8 08 C154 03.6 8 08 C15	6 13 123 12.9 7 01 157 06.4 3 14 100 34.2 4 16 143 55.0 6 00 125 00.5 9 12 159 16.2 0 10 3 22 59 56 5 04 114 38.3 6 18 D127 14.9 7 15 120 53.9 17 157 39.3 18 7 157 39.3 19 7 155 28.8 3 10 157 28.6 3 21 152 10.6 5 10 122 23.0 4 15 123 35.8 5 08 C106 10.2 5 22 D137 54.9 10 121 350.8 6 08 C154 03.6 6 04 C145 49.5 10 9 152 22.9 11 C150 49.2 19 C111 10.4 10 30 D155 18.7 11 15 C116 32.8 20 04 158 33.7 12 102 37.6 13 132 35.3 20 16 D109 15.7 19 46 10 10 123 30.2 21 16 D109 15.7 19 46 22 C142 26.0 49 25 25 05 D102 57.2 10 14 26 08 D149 56.5 57 43 27 155 34.0 62 48	6 13 123 12.9 PCP 7 01 157 06.4 I 3 14 100 34.2 LQ 4 16 143 55.0 54 28 PP 6 00 125 00.5 PP 10 10 10 FP 10	6 13 123 12.9 PCP 24 7 01 157 06.4 I 58 3 14 100 34.2 L0 13 4 16 143 55.0 54 28 PP 48 6 00 125 00.5 9 12 159 16.2 0 10 3 22 59 56 PP 52 5 04 114 38.3 6 18 D127 14.9 7 15 120 53.9 29 08 *PP 21 8 17 157 39.3 3 07 155 28.8 3 10 157 28.6 3 21 152 10.6 5 10 122 23.0 I 22 4 15 123 35.8 I 24 5 08 C106 10.2 6 22 D137 54.9 I 38 6 08 C154 03.6 6 08 C154 03.6 6 08 C154 03.6 6 08 C154 03.6 7 09 152 22.9 PCP 46 7 09 152 12.9 PP 59 1 15 C116 32.8 I 16 2 04 158 33.7 1 12 102 37.6 1 03 132 35.3 40 07 PCP 33 1 16 1 03 132 35.3 40 07 PCP 33 1 16 1 03 132 35.3 40 07 PCP 33 1 16 1 03 132 35.3 40 07 PCP 23 1 16 D109 15.7 19 46 I 09 1 17 155 34.0 62 48 PCP 56 1 155 34.0 62 48 PCP 56	6 13 123 12.9 PCP 24 11 7 01 157 06.4 IS 8 39 14 100 34.2 PP 48 10 4 16 143 55.0 54 28 PP 48 10 6 00 125 00.5 9 12 159 16.2 0 10 3 22 S9 56 PP 52 30 5 04 114 38.3 6 18 D127 14.9 7 15 120 53.9 29 08 PP 27 43 8 17 157 39.3 8 17 157 39.3 8 17 157 39.3 8 10 157 28.6 8 21 152 10.6 8 21 152 10.6 8 21 152 10.6 8 3 10 157 28.6 8 3 10 157 28.6 8 3 10 157 28.6 8 3 10 157 28.6 8 3 10 157 28.6 9 08 CI06 10.2 9 13 8 15 10 122 23.0 I 22 25 10 122 23.0 I 22 25 10 17 15 20 35.8 I 24 06 10 122 23.0 I 22 25 11 51 23 35.8 I 24 06 10 12 2 23.0 I 22 25 11 51 23 35.8 I 24 06 10 12 2 23.0 I 22 25 11 51 23 35.8 I 24 06 10 12 2 23.0 I 22 25 11 51 23 35.8 I 24 06 10 12 2 23.0 I 22 25 11 51 23 35.8 I 24 06 10 10 10 10 10 10 10 10 10 10 10 10 10 1	6 13 123 12.9 PCP 24 11 I	6 13 123 12.9 PCP 24 11 I 25 7 01 157 06.4 I 58 39 I 59 14 100 34.2 LQ 13 12 LR 14 4 16 143 55.0 54 28 PP 48 10 PS 57 6 00 125 00.5 9 12 159 16.2 0 10 3 22 59 56 PP 52 30 SS 63 5 04 114 38.3 6 18 D127 14.9 7 15 120 53.9 29 08 *PP 27 43 8 17 157 39.3 3 07 155 28.8 3 10 157 28.6 3 21 152 10.6 5 10 122 23.0 I 22 25 I 22 6 20 137 54.9 I 38 15 I 38 6 08 C106 10.2 6 22 D137 54.9 0 1 C150 49.2 0 19 C111 10.4 1 03 D155 18.7 1 15 C116 32.8 1 15 C116 32.8 2 04 158 33.7 1 12 102 37.6 1 12 102 37.6 1 12 102 37.6 1 13 30.2 PCP 23 42 PP 26 1 10 102 23.0 TP P 12 1 15 C116 32.8 TP P 26 1 10 122 37.6 TP P 27 1 15 C116 32.8 TP P 28 1 16 37 TP P 26 1 16 D109 15.7 TP 46 TP P 27 1 16 D109 15.7 TP 46 TP P 24 1 15 C112 30.2 TP P 26 1 10 102 57.2 TP P 47 1 15 C144 36.0 34 26 PCP 24 45 LQ 43 1 15 C150 49.2 TP P 44 1 15 C144 36.0 34 26 PCP 24 45 LQ 43 1 15 C150 49.2 TP P 44 1 15 C144 36.0 34 26 PCP 24 45 LQ 43 1 15 C150 49.2 TP P 59 1 155 34.0 62 48 PCP 56 35 PP 57	13 123 12.9 PCP 24 11	Columb C	Color Colo	PCP 24 11

YEAR * * *	KIRKENES (KRK) SE * * * *	ISMIC STA	* * *	ULLETIN - * * * * * SUPP. 2	* * * * *	PAGE 2 * * * * * *
MTH DY HE		M S		MS	PHASE M		M S A/T
* * * * 1		* * * *			* * * *		
APR 05 01		39 26	PCP	32 39	PP 33	48 LQ	44 02
APR 05 01		3, 20		52 09			
	DI37 12.7	44 23		38 24	PP 39	01 LQ	48 36
	CI31 06.4			34 34	LQ 55		
	CI11 43.8			12 51	PCP 12		23 48
AFR OF IC	45.0						
APR 07 19	CI37 56.3		1	38 05			
APR 08 08		30 09		42 07			
APR 08 14		30 07		72 01			
	DI42 22.3						
	CI59 14.5		PCP	60 25			
AFR OO I			- 222-110				
APR 10 0	DI17 12.3	24 49	PCP	18 23	PP 19	17 LQ	29 08
	CI53 07.5	60 21		54 16	PP 55	08 LR	67 29
	CI33 56.5	41 48		34 56	PP 36	00 PPP	37 06
APR 13 0		39 41	PP	36 19	LR 42	35	
APR 13 1				26 13			
A							
APR 14 14	4 DI28 01.0						
APR 14 1							
	3 CI04 44.0	12 21	PCP	05 44	PP 06		16 35
	5 CI40 08.9		PCP	41 09	PP 42	17 LR	56 02
	6 DI45 54.8		I	46 04			
APR 16 1	3 DI52 57.1	60 36	PP	55 12			
APR 16 1	9 136 21.4		PCP	37 21			
APR 17 0	4 CI58 54.9	66 45		58 57	PCP 59		74 39
APR 17 0	9 DI18 23.4	25 59	PCP	19 25	PP 20	30 LQ	31 32
APR 17 1	0 DI08 47.8						
APR 18 2	0 DI17 48.3	25 41	LR	33 40			
APR 19 1							
APR 20 1	2 DIO5 27.7	12 29	PCP	06 43	PP 07	18 PPP	08 09
APR 21 0							
APR 27 0	7 104 38.9		PKS	08 19			
	4 128 06.3						
	5 126 24.1		200	21 42	PPP 24	. 27	
	6 DI20 47.8		PCP	21 42	PPP 24	, 31	
	7 142 19.3			14 10			
MAY 04 1	2 DI13 58.2		1	14 10			
	7	40 00					
	5 DI36 00.7		DCD	57 12	PP 59	43 DDD	61 55
	5 DI57 01.5		PCF	31 12	LL 3,	45	0. ,,
	8 CI08 10.6						
	1 DI21 13.9 0 I22 45.1		1	23 08	PP 24	53 PPP	26 21
MAY 07 2	0 122 45.1	30 54		25 00			
WAY 00 1	6 CI31 12.2	38 43	1	31 19	PP 33	3 19	
	1 143 30.2			43 34	LQ 54		57 18
	2 DIO2 15.5			02 30			
	3 150 33.8			50 40	PP 52	2 48 PPP	54 26
	0 103 21.9						
MAI 09 0							
MAY 09 0	2 112 17.7	19 58					
	5 150 50.2						
	2 125 53.3						
	6 115 47.3		I	15 52			
	5 129 51.5						
MAY 12 1	8 126 09.1	33 44	PCP	27 11	PP 28	8 11 SCS	36 01
	8 131 46.6	,					
	3 121 51.8						
		51 43	I	45 22	PP 4	7 48 PKS	48 21
	0 120 56.4						

EAR	*	* *	KIRK	ENES	KRK * *) SE	ISMIC ST	ATI	ON E	BULLETI	N -	1964	* * *	*	PA	GE *
964				PKP		SKS	SUPP.			SUPP	. 2		SUP	P.	3	LO
TH		HR	M			S	PHASE			PHASE			PHAS	E	M S	
* *		* *					* * * *	*	* *	* * *	* *	* *	* * *	*	* *	* *
AY		09		33.5	22	16										
AY		08		20.6												
AY		10		19.2												
AY		14		09.9												
AY	16	16	E27	25			PP	30	25	1	36	58				
AY		00	159	18.0		40	PCP	60	15			19	PPP	62	26	
AY		04		27.4		20	I	51	39			13				
AY		19		08.7		12	I	35	16	PCP	36	18	PP	36	56	
AY	19	06	DIII	06.6	12	51										
AY		23		11	27	06			11	PPP				30		
AY			D115				PP	18	04	PKS	19	11	SKKS	28	13	
AY		02		55.2	40	41			21			20	200			
AY		17	DI41 135	37.1	49	41	1	41	21	PP	43	29	PPP	45	04	
AY UN		00		26.2		10			39	PP	52	43	PPP	54	01	
UN		16		56.5	25	43	LQ	30	14							,
UN		02		33.8												1.
UN		09		31.2	66	44	I	59	36	SS	70	42				
		22		04 7												
UN		22	DI27	06.7	23	32	1	16	11	55	26	00	LQ	28	01	
UN		15		02			F	00	09							1.
UN	-	18		41.8				-	,							1.0
UN	-	22		19.7	39	36	1	29	51	PS	40	37				2.
UN	11	18	D142	25.5												1.
UN		16		17.4			F	09	05							1.0
UN		04		15	37	49	1965									
UN	13	17	145	57.9			E	46	14							
UN	14	12	122	00.7												
UN	15	00	E17	23	27	11										
UN	16	04	111	50.7	20	16	I	11	55	PP	14	10				1.5
UN		07		14.9					25							1.8
UN		07		08.4	19	10	PP	27	26							1.8
JN	18	18	E11	25	19	19										
JN		17		12.0												1.
UN			D135				I									1.5
UN			C136		44	16	PP	38	32							, ,
UN		07	D135	12.1	12	46	SG	13	21							1.5
JN	_	02	E36		42	14	55	44	51							
UN		12	E01	21.0												
UN		07		10.7												
JN		12		08.0			1	35	12	E	42	27				
IN	30	13	150	22.8	70	17										
UN			C158			-	1	58	32	1	58	41				1.6
UN	30	20	117		24	35	1	17	22			35		19	17	2.1
UL		02		08.4	64		*PP	57	18	55	68	48				1.6
JL	01	09	E56	32	64	32										
JL	01	22	C157	01.0												
JL		14		27.6				18								
11	04	11	102 E00	12.9			*PP									2.1
JL																

YEAR		* *	* * 1	NES * * *	* *	SE * *	ISMIC ST. * * * * SUPP.	* 1	* *	* * *	* *	196	4 * * *			E 4 + # LOG
MTH		HR	M		M		PHASE					S	PHASE	-		A/T
* 1							* * * *	# 1	* *	* * * *	* *	* *		*	* * *	
JUL		23		47.7	53	41	PCP			PP	47	55	PPP	49	08	1
JUL		02		48.5	36	04	I *PP			PP	29	01	PPP	40	00	1.6
JUL		10		06.5	7,	04	I			*PP	21	30	PPP PPP *SP	21	43	
JUL	06	23	115	31.1								1010				1.6
JUL		04		20.6	27	02		21	10		21	16				, .
JUL		13		34	21	03	I	21	10	I	21	15				1.5
JUL		07		41			*PP	18	52	I	20	10				
JUL	08	07	158	41.8	69	27	I	59	04							
JUL	0.8	12	CIOR	58.3			,	09	52	PP	12	04				
JUL			C158					59		PP	13	04				1.4
JUL		12		48.6				12		1	13	05				1.6
JUL				25.1	65	25	I	58	28	*PPKP	58	51	*SPKP	59	01	1.9
JUL	11	04	E55	23												
JUL	11	08	DI40	11.1												1.4
JUL		17		47.4	52	15	LR	53	22							2.0
JUL		20	34		42		PCP					14				
JUL		01		36.7	63	53	I	55	44	PCP	56	16	PP	57	49	
JUL	13	1,	124	24.9												1.3
JUL	13	21	114	10.5												
JUL		05		38	40	26	I	42	15							
JUL			DI06 DI28		28											1.7
NL				38.3			PCP	43	24							1.5
JUL			D150		58	23		50								2.0
JUL		03		52.2			PP	48	05							
JUL		19		24	12	49	T	02	31							
JUL		01		01.8	32											
	21	04	.07	40 0	14			0.7			10	. 7	CKD	10		
JUL		04	C102	48.8	07		1	07	21	PP	10	1,	SKP	10		1.6
JUL			155		01	1,	E	55	10							1.00
JUL		13		07.3				25								
JUL	23	19	D117	02.0			I	17	08							1.8
JUL	24	07	0100	34-0	08	25	*PP	00	44							1.7
JUL			D122		00		I									1.6
JUL			D134													
JUL			112				I	12	34							
JUL	24	18	159	44.5												
JUL	24	20	E32	58	35	46										
JUL		19	E49		56	57	PP									
JUL		01	E42	57.9			E	42	47							
JUL		23		17	18	17										
JUL		18	E59		F.0	4.0			44						4.2	
JUL		06		46.7			PKP			PPP	54	01	SKS	59	43	
JUL			E26					-	-							
JUL				50.9	52	47	PP	50	11	PPP	50	18	SS	53	12	
4116	01	00		47.0												
AUG		00		47.0			I	02	51							1.6
AUG				40.9		20	I			SS	57	34	LQ	59	29	200
AUG	03	02	100	07.3	09	48	PP	03	11	PPP	05	14			488	
AUG	03	07	D155	51.0	65	09	*PP	56	02	PCP	56	12				1.6

MTI *	+ + 5 04	* + +	P	PKP 1 S * * * • 01.9	S	SKS 1 S		* * * * * * * * * * * * * * * * * * *	* * \$ * * 7 24	SUP PHAS	P. E.	* * 2 M S * *	* * * SU	* * PP.	* * 3 M	AGE 5 * * * LOG S A/T * * *
AUC	05 05 06 06	122	C142	26.2 16.8 11.8	07	42 48		1 42	7 56 2 36 5 21	P	P 4	8 47 4 51 7 47	PK	5 4	5 56	2.2
AUG	08 08 10 10	01	157	25.7 52.1 51.4 02.1					36		1 10	53	PI	1	2 52	1.8
	12			07.6					21		1 01	47				2.0
SEP	04	03	E45	15.7 49 15.3			1	40	21							1.9
SEP	06	18	E53	47	64	25	*PP	09	08							1.5
SEP	12 12 14	13	126	45.4	07	31	E	01	23	PS	10	25	SS	15	43	
SEP	15		D150 C140	49.8	50	16	*PP	-	59 00	PP	43	39	PPP	45	33	1.5
SEP	15 16 16	21 01 01		05.8 40.3 31.4	46	54	1	20	11							1.6
	16	22 15		05.8		51 32	I	34		LG	18	50				1.8
SEP		00	E02	04		59 36	Ε	26	53	Ε	29	19				
SEP		13	120	41.2	27	08	*pp	20	52	PP	22	39	LQ	30	35	
SEP		05	E20			50	PS	32	57							1.5
SEP SEP	20	12 14 19	E14 CI46		15	53		16		F	07	05				2.1
SEP		04	E41 C109		17	22	SKP	43	46	PKS	44	42	PPP	12	54	
SEP			C128													
SEP	27	0,0		45.3	61		*PP	02		PPP			LQ SS	65		
SEP		06	158 E19	31.9			E	58 19		1	59 21	03				
OCT	06	14	E36							PP	21	20				
OCT	06	18		48	29	57		37 27		PP	28	05				
OCT	10	19	147	40.7												1.6
0CT 0CT	12	15	D115 155 E09	45.6	66	33		15 55		*PP	56	04	PP	59		1.7
OCT			C109 E15		24	33	E LQ	10 32								1.6
0CT		03			30	52	E	29 57		I	31	04				
OCT	15	20	136		44	25	Î			PP	38	40	PPP	40	06	1.6
OCT			D109		17	35	*PP	09	40	PP	11	25	PPP	12	59	2.0

1	EAR 964 TH		* *	* * * P/P	* * KP S	* * 5/5 M	* * KS S	SUPP. PHASE	* * 1 M	5	SUPP PHASE	* 2 M	* *	* * * SUPP	M	5	* * LOG A/T
	* *					* *	* *	* * * *			* * * *	*	* *	* * *	* *	* *	1.4
	CT		08	D128	06.1				28								1.4
0	CT	16	19	116	35.1	18	09										
	CT	17	03	E17	18.0			E	30	21							2.1
0	ст	18	12	D145	00.9	54	40	*PP	47	05	S	55	24	PKKP	61	33	
	CT		13	128													1.6
	CT			DI43													1.6
	CT		23	D118	48.4	26	24	PP	20	46	PPP	21	40				
	CT		10	E05													
	CT		12	149 DI07	22.6	16	20	,	07	22	PCP	07	25				
	CT		21		13.1	10	30		16		rcr	0,	33				
	CT		08	C105	04.3	03	31	PP	02	13	SS	03	41				
0	СТ	27	19		17.9	55	33	I	51	22	1	58	31	I	60	27	
	OV		12	155 C138	50.3	49	40		50	10							
	OV		03		40	10			03		PKS	07	18	PPP	17	35	
N	IOV	14	04	D106	26.7												1.8
N	IOV	15	16	C102	20.6												
	VOI			D119													1.7
		16		D106 C154				1	54	45							2.1
		16		D133													
		16	06		09.9												319/2
		16	22		03.9				53	41							1.5
		16	08		46.0	40	21	PKP			PP	34	07	PPP	36	31	
1	VOV	17	19	E12	59												
1	VOV	18	14	E53	12												
1	VOV	19	23	E49	17	59	55	PKP	53	33							
		21		D129													1.9
		24	12		01.4			1	53	07							
	VOL	26	10			41	07										
		27		C155	35.9		01										1.7
		27		DIII					67	58							1.7
		27		C157					"	20							1.5
								-	14	15			,				
		30		DI39	20.0				39	15							
1	DEC	01	07	D142	34.0	44	36		42				48			41	2.1
		02		100 C128	30.5		00		00	12		02	35	I	03	09	1.9
		04		146 E59	13.0	47	56	LR	48	35							
		05		100		08	53	SS	12	07							
		09		152 D113													
	DEC	11	16	0113	23.4												
		13		CI41	43.2	5.0	24	I	41	47							1.9
		15			36 59.5		35	1	02	47							
	DEC	17	23	E54	31			PCP				62	41				
	DEC	20	13	142	13.2												

		* * * * *	* * * *	* * * * * *	* * * * *	1964 PAGE * * * * * * * * * * * * * * * * * * *	* *
MTH DY	HR	MS	M S	PHASE M	S PHASE M	S PHASE M S	A/T
DEC 22 DEC 22	04 08	DI44 44.2 CI12 49.1	51 39			38 LR 54 51	
DEC 27	04	E15 59 E51 46 137 52.9			22 57 PCP 58	19	

	(KRK) SEISMIC ST	ATION BULLETIN -	1965 PAGE 1
YEAR 1965 P/PKP MTH DY HR M S	M S PHASE	M S PHASE M	SUPP• 3 LOG S PHASE M S A/T * * * * * * * * * *
* * * * * * * * * * * * * * * * * * *	51 22 SS	* * * * * * * * * * * * * * * * * * *	
JAN 02 18 I22 13.4 JAN 04 11 CI42 42.8 JAN 05 18	SKKS	33 53 SS 44	1.9
JAN 09 13 DI45 04.7 JAN 10 02 DI57 30.5 JAN 10 13 DI55 14.9	I	45 09 57 37 56 22 PPP 58	52 1.8
JAN 11 20 CI23 58.9 JAN 12 13 CI41 45.0		41 52	
JAN 15 06 CI06 12.6 JAN 23 16 144 04.0 JAN 23 22 101 34.3	1	07 09 PPP 07 44 10	The same of the same
JAN 24 00 DI24 33.8 JAN 24 22 140 56.8		24 46 PP 28 41 15	33
JAN 26 23 DI57 54.8 FEB 02 16 CI04 23.6 FEB 04 05 I03 43.0 FEB 04 05 I11 03.5 FEB 04 06 I43 55.1		04 29 04 31 PP 05	1.6 48 PPP 06 56 1.7
FEB 04 06 CI46 33.5 FEB 04 06 CI49 09.2		46 44 49 49 PP 51	1 = . C. C
FEB 04 07 CI02 24.9 FEB 04 07 CI21 06.9 FEB 04 07 I24 34.7		21 13 24 44 PCP 25	2.0 32 PP 26 47
FEB 04 07 132 48.1 FEB 04 07 150 15.0 FEB 04 07 CI53 11.9 FEB 04 08 103 12.0 FEB 04 08 113 44.0	*PP	32 55	
FEB 04 08 CI15 51.0 FEB 04 08 I43 16.1 FEB 04 08 I50 23.7 FEB 04 09 CI08 50.2 FEB 04 09 I10 06.0		43 27 50 26	
FEB 04 09 I21 37.5 FEB 04 09 CI29 44.1 FEB 04 09 I45 00.0 FEB 04 09 I47 08.4 FEB 04 10 I49 04.0		45 07 47 16	1.7
FEB 04 10 C151 14.9 FEB 04 11 D110 07.9 FEB 04 11 158 06.0 FEB 04 13 100 36.3	*PP	51 23 10 20 00 44	1.8
FEB 04 14 CI27 52.7		00 57	2.5
FEB 04 16 C100 48.4 FEB 04 16 142 09.4 FEB 04 17 D114 20.4 FEB 04 18	*PP	42 18 14 26 27 13 00 27	
FEB 04 18 FEB 04 18 DI43 49.6 FEB 04 18 157 46.6	PKPPKP	23 40	2.0
FEB 04 19 107 44.7 FEB 04 19 111 02.0		11 12	

YEAR	,		KIRK	ENES	(KRK) SE	ISMIC ST	ATI	ON E	BULLETI	N -	1965	5	P	AGE 2
1965 MTH * 1	DY	HR * *	М	PKP S * * *	M	SKS S * *	SUPP. PHASE	M	S * *		M	S		M :	LOG S A/T
FEB FEB				34.7			*PP	55	43						
FEB FEB	04	20 21	D142	04.8			I	42	17						2.0
FEB FEB FEB FEB	05 05 05	00 02	136 DI41 I51 I38 DI43	53.6 03.8			I	41	34	1	41	45	PCP 4	2 08	1.6
FEB FEB	05 05	05 05	108 DI14 I16	49.0			*PP	08	18						1.4
FEB			D135				*PP	49	37						
FEB FEB FEB	05		DI49 DI28 I41												
FEB		09	100	57.3 40.6			*PP	01	07						
FEB FEB		12 13	D148				*PP	48	32						1.8
FEB		14		21.3			*PP	18	13						1.8
FEB	05	14	138	19.5			*PP	38	30						
FEB FEB	05 05	21	D156 C158		64	42		56	53	I	57	20			1.7
FEB		01	125	09.0			*PP	25 25		I	25	26			
FEB FEB	06 06	01	156 C112	28.3	58	14	*PP	57 42	16		44	17			
FEB			DI33				*PP	33							1.6
FEB	06	08	C124 156	27.1			I	24	27						2.0
FEB FEB	06		104 D132 120				I	52	09	*PP	92	15			1.8
FEB FEB	06	17	C144 100 D120	12.1	08	07		44 00 20	14	PP	02	18	PPP 0	3 40	2.4
FEB FEB		18	E52	10			*PP	29	43						
			133	21.5			*PP								
FEB FEB	07	01	109 C126	45.0			PP								2.1
FEB	07	04	C120		63	09	*PP			I	56	16			2.1
FEB			D146				*00	E2	07						2.2
FEB	12	01	E52 C104		12	29	*PP PCP	05	37						
FEB		16	157	44.1	59	17	PG PP			Т	63	42	E 64	4 42	2.0

			KIRKE	ENES	KRK	SE	ISMIC ST	ATIC	ON I	BULLETIN	١ -	196	5		PA	GE 3
YEAR			P/F	PKP	5/5	SKS	SUPP.	1		SUPP.	. 2		SUPF	. :	3	LOG
MTH			М	S	М	S	PHASE	M	S	PHASE	M	S		. 1	4 5	A/T
* *			* * 1			* *		39		* * * *	45			45		* * *
FEB			CI39		40		*PP			PCP			10.00	45	47	
FEB			110		42	-	*PP				-					
FEB			C156				I	56	35							2.4
FEB	15	12	140	46.6	46	04	PP	41	39							
			121	17.7												
FEB		12	154	11.01			I	54	35							
FEB			C119	23.0												1.9
FEB			C135					35		200	27	16	PP	20	07	1 4
FEB	18	04	136	24.1			1	36	38	PCP	31	10	PP	20	01	1.6
FEB	18	08	C143	46.7												1.9
FEB	25	05	131	46.3				31		*PP	31	58				
FEB		20		20.2				11								2.2
FEB		11	C130	39.3				30								1.6
3																
MAR			D132				E	32	21							1.9
MAR		19		35.6		02	5	55	40							1.8
MAR		09		50.1		18		34								
MAR		09	CE54	54	56	24										1.7
		21		02 4		22	,	47	07							2.1
MAR			C147 D121		55	22		41	01							1980
MAR			C156				1	57	05							
MAR		20	E35	14	44	34										
MAR	07	02					PKS	06	00							
MAR	09	18	E04	08	09	13	I	04	15	I	04	52				
MAR		04	E05	59												
MAR			C143			25	*PP			PCP	57	08	PP	5.8	23	2.0
MAR		16	C156 E21		64	25		22		PPP				50	-	
11011	•															
MAR			C136		44	15	*PP	36	51	PCP	37	44				2.2
MAR		18	127 E45	32.8	4.6	13	F	45	52	F	45	58	E	46	37	
MAR		11		30	40	13	*PP						TO WES	00.10		
MAR		03		41.6	10	46	I	03	51							
																2.1
MAR			CI42													1.8
MAR		08		28.1			I	17	34							
MAR	24	13	139	19.5												
MAR	24	22	E54	40												
MAR	25	09	C102	45.4			*PP	02	56							1.9
MAR			D122										14.000		0.0	1.5
MAR		13	131		39	04	I					05	I		09	
MAR	-	16		59			PKP	18			25	12		,,	47	1.7
MAR	24	00	0110	01.03												
MAR				38.6	65	46	*PP	57	48	PP	59	51	PPP	61	13	2.7
MAR			142		1.1	5.0	,	36	56	PCP	37	49	PP	39	06	2.9
MAR				54.9 39.3		58		30	20							1.7
MAR				53.5			*PP	35	04							1.7
MAR				12.4												
MAR				34.9			*PD	09	45							
MAR	31	09	C153	46.6	58	23						.,			E0	
APR	03	11	E33	29	43	59	PD	36	52	\5	44	16	55	49	50	

				KIRK	ENES	(KRK) SE	ISMIC ST	ATI	ON	BULLETIN	-	196	5		PAC	5E 4
	YEAR 196			P/	PKP	5/	SKS	SUPP.	1		SUPP.	2		SUP	D .	2	LOG
	MTH		HR		S	М		PHASE		S	PHASE		S				
	*	* *			* * *	* *	* *				* * * *						
	APR	04	13	D140	15.5	47	59	*PP							41		
	APR		03	DI19	22.6	24	40	I	19	28	I 1	9	47	PP	20	41	
	APR		14		00			*PP	02	17	PCP 0	2	46				
	APR		17		19.8												
	APR	06	05	C142	20.5												2.1
	APR				30			*PP			PP 5				66		12.00
	APR				24.5	91	07	1	53	28	PP 5	5	19	PPP	56	51	1.8
	APR				27·1 50·8	00	17		02		PPP 0						
	APR				23.2	09	11	*PP		58	PPP 0	2	30	55	10	59	2.2
				-1-1					04	27							2.3
	APR	10	22	150	45.6												2.0
	APR	_			52.1			PKP2	30	58							2.0
	APR	12	20	C151	33.6												
	APR	14	07	D145	05.5			*PP	45	14							
	APR	16	23	C130	41.7	37	26		30		PCP 3	2	07	SS	40	43	
	APR				58.7												1.7
	APR		09		37.2				61		PKS 6	2	07	PPP	64	15	
	APR		13	E01	11			PKS									
	APR		08						18								
	APR	19	23	0152	27.6	61	01	I	52	29							
	APR	20	04	C152	38.4												- 0
	APR				18.4												2.0
	APR		17		51.3												1.4
	APR				39.4												
	APR		03	E18													
					17 5%												
	APR	24	08	113	50.9			E	13	59	E 1	4 (05				
	APR	24	20	D122	09.5												
	APR	24	22	D108	02.8												
	APR		00		26.8												
	APR	25	01	111	52.8			I	11	59							2.4
	APR				43.3			E	58	49							1.4
	APR		02		58.4												
	APR				07.4												1 7
	APR		10	E12													1.7
		-	20	-12													
	APR	25	12	150	03.0												
	APR		14		14.1			PCP	17	34							1.7
	APR		15		19.7			*PP									
	APR		15	E42	13			*PP									
	APR	25	16	147	27.7												
	133																
	APR		02	-	AY 7787			I	06	31							
	APR		10	E00													
	APR		13	E38	41.5			DCD.									2 2
	APR				56.3		11	PCP	39	40							2.3
	APR	20	22	0126	30.3	36	11										2.1
	APR	27	14	C115	48.8			I	15	53	I 1	5 6	59				1.7
	APR				35.3					-		-					
	APR					47	11										
	MAY				34.3												1.4
	MAY		08		57.5		24	I	42	05	I 4	2]	17				
	MAY		17						35								
	MAY				32.5				12								1.4
	YAM				56			I	36	05							
	YAM				36.4			DVC	2.								1.3
W	YAY	07	13	E21	26			PKS	24	59							

YEAR			ATION E	BULLETIN -	1965 PAG	SE 5
	P/PKP S/	SKS SUPP.	1	SUPP. 2	SUPP. 3	LOG
	M S M	S PHASE		PHASE M	S PHASE M S	
* * * * *	* * * * * * *	* * * * * *	* * *	* * * * *	* * * * * * * * *	* * *
MAY 08 01	E27 35					
MAY 11 17	E46 22	I	46 46			
	CI47 12.3					1.4
MAY 13 19	DI33 25.2					
MAY 16 11	148 27.9					
	CI30 34.8 39		30 38	PP 33	23 PPP 35 08	
	CI50 18.2		4,146			1.7
MAY 20 00			59 12			
	I18 45.9					
MAY 23 23	DI55 48.9 63	32 1	55 56	PCP 56	47 PP 57 56	
MAY 24 22	C122 15 0 42	12 .	22 21	00 24	,,	20
MAY 24 23 MAY 25 13	CI33 15.0 43	12	33 24 17 45	PP 36	11	2.0
MAY 26 20			03 42			
MAY 31 02	F13 04	*PP	13 15	I 13	35	
	I03 10.1 E13 04 CI48 24.4	1	48 29	1 48	51 PCP 49 04	
52						
JUN 01 04	143 05.3	PCP	43 27			
JUN 01 08	101 27.0		01 37	I 01	44	1.8
JUN 01 15	126 36.4 33	05				
JUN 02 23	151 38.2 60	56 LR	74 34			1.8
JUN 03 07	CI53 13.7	PCP	54 12			1.9
JUN 03 11	108 57.2					
JUN 03 18		I	50 35			
JUN 03 20	140 11.1					
JUN 04 13	143 27.1					
JUN 04 14	DE00 16					
JUN 04 15	112 03.7					
JUN 04 15 JUN 06 09	145 49.6 148 08.7	-	48 26			
JUN 08 06	125 01.8	-	40 20			
JUN 08 13	152 19.9					
0011 00 15	1,12					
JUN 09 13	CI36 23.6					
JUN 10 05	151 21 1	I	56 37			1.9
	DI47 11.7		47 21			
JUN 11 03	CI43 30.8 51	14 *PP	43 44	PCP 44	21 PP 45 39	
JUN 13 07	116 09.6 24	12 *PP	16 24			1.9
JUN 13 20	108 15.4 13	32 LQ	21 59			
JUN 14 13	125 49.1	I	25 53			1.9
JUN 14 16	159 02.5	E	59 09			
JUN 15 04	156 06.5 64	08				
JUN 15 08	108 43.4					
JUN 15 09	139 53.2					1.7
JUN 15 15	124 34.3					
JUN 15 16	151 00.3					
JUN 16 05 JUN 16 23	108 37.8 157 50.7					
JUN 16 23	131 3001					
JUN 17 03	151 09.6					
	154 37.2					
	DI14 42.2	1	14 53			1.8
	CI23 39.4		23 44			1.9
	DI27 24.6		27 50			1.7
30 20 01						
JUN 18 08	127 27.6	*PP	27 40			
JUN 18 13	157 22.1		57 29			1.6
JUN 18 23	108 50.9					
			47 51			2.2
JUN 20 02	107 12.6	PCP	08 06			

	(KRK) SEI	SMIC STA	TION B	JLLETIN - 196	5 PAG	E 6
YEAR 1965 P/PKP MTH DY HR M S	S/SKS M S	SUPP.	1 M S	SUPP. 2 PHASE M S	SUPP. 3 PHASE M S	LOG A/T
* * * * * * * * * * * * * * * * * * *		* * * *	* * * *			* *
JUN 21 00 CI29 22.9 JUN 22 05 157 09.7	35 56		29 26 57 31	PP 31 13		2.0
JUN 23 00 C100 35.9 JUN 23 11 C118 37.4 JUN 23 12 E32 47	10 58 26 25		00 38 18 50 32 52	PP 03 54 PP 20 47	SS 16 44	1.6
JUN 24 07 D157 48.4 JUN 24 14 E27 32	68 17	*PP	58 04	S 68 39		2.0
JUN 24 18 E09 58 JUN 26 22 E12 46 JUN 27 01 E15 53		1	12 54 16 02			
JUN 28 03 JUN 30 03 C106 29•4		PS	01 28			
JUN 30 08 CI43 08.2 JUN 30 17 DI20 29.7 JUL 01 17 E51 03		1	43 18	PCP 44 06	E 61 16	1.6
JUL 01 17 E51 03 JUL 01 23 JUL 02 20 129 17•8		PP	38 02	SKS 38 40		
JUL 02 21 C108 19.5 JUL 03 11 136 36.1			10 19 25 17	PKKS 33 10	PKPPKP 38 18	
JUL 03 21 E23 57 JUL 05 08 I38 33•7 JUL 05 18 I45 20•6			38 35	I 38 38	LR 47 32	
JUL 06 03 125 05.2 JUL 06 04 118 26.5 JUL 06 05 100 57.4			26 05 19 23	PPP 26 23	I 34 36	
JUL 06 05 107 54.4 JUL 06 18 153 16.4		PP	54 27	I 60 42	SP 63 00	
JUL 07 21 DI49 14.6 JUL 12 13 159 53.6 JUL 12 18 152 32.4 JUL 13 15 CI34 28.6						
JUL 13 23 E17 09 JUL 14 18 D105 41.1						1.8
JUL 15 06 E18 06 JUL 15 18 DI45 01•0 JUL 17 07 E39 08 JUL 17 13 DI18 32•	49 38	P	19 13 45 05	S* 19 52 PP 47 54	I 48 28	2.5
JUL 17 18 131 08. JUL 19 04 125 54. JUL 19 06 157 51. JUL 19 09 121 45.		*РР	26 06			1.3
JUL 20 07 C150 44.		I	31 41			
JUL 21 18 D101 54. JUL 22 01 C128 35. JUL 23 00 C157 17. JUL 23 17 111 16.	0 2 8 7	*PP	02 06			
JUL 25 13 CI43 11. JUL 25 21 DI56 26. JUL 26 16 I28 12.	6 51 24 5 64 13	I I	43 15 56 47	I 44 30 PCP 57 23	SS 55 22	
JUL 26 16 128 12. JUL 27 11 DI30 11. JUL 27 21 125 43.	7	*PP	30 22			1.6

YEAR 1965 MTH DY HR M S M S PHASE M	VEAR			KIRKE	ENES	KRK	SE	ISMIC STA	ATIO	ON E	BULLETI	N -	196	5		PA	GE 7
JUL 30 07 0132 43-6 JUL 30 19 E15 13 JUL 31 07 E47 00 55 37	1965 MTH	DY	HR	M	S	M	S	PHASE	M	S	PHASE	M	S	PHASE		1 5	A/T
AUG 01 16 D149 33.6 AUG 02 01 18 15.3 AUG 02 00 103 49.6 AUG 02 01 103 49.6 AUG 02 13 139 52.4 47 16	JUL JUL JUL	30 30 31	07 19 07	DI32 E15 E47	43.6 13 00		37										2.0
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SEP 04		CI41		49			42				12			44	2.5
SEP 06	03	DE29	54	39	08										
SEP 07	07	109	06.6	18	42	PCP									1.6
SEP 08	03	135	37.4	43	06	*PP	35	44							
SEP 08	07	113	29.7												1.9
SEP 08		C126		33				11	I	26	17				1.8
SEP 09			36.7	26	15	*PP	15	48	PP	19	10	S	26	44	
SEP 10			36.6												1.8
SEP 10		D136	07.7				36								1.7
SEP 11	07			17	40	SKKS	18	32	PS	20	43				
SEP 12	09			05	01	SKKS	05	40	s	00					
SEP 12		C106	03.6	05	01	SKKS	05	48	3	00	10				2.0
SEP 12		DI14		24	52	PCP	14	53	*PP	14	58	SKS	25	28	2.5
SEP 13		DI16			06	I			PCP			PP			200
SEP 14		DI04									1	0.4510		-	1.7
Mark The	100														
SEP 16	14	C102	31.2	12	48	I	02	53	PP	06	10	SP	13	56	2.0
SEP 17		DE04				100					2011				200
SEP 17	04	106	10.4												
SEP 17	11	127	09.7			*PP	27	56							
SEP 17	1 13	109	40.4												
SEP 17		131	23.2			*PP									
SEP 17		D133				*PP									
SEP 17		C129			33		29		PCP						
SEP 17			43.9	40		*PP	31	55	PCP	32	22	PP	34	01	
SEP 18	3 20	DE55	40	63	03										
SEP 18		DE15		26	10										
SEP 19		CIOO			27		00		*PP					20	1.9
SEP 21 SEP 21		DE48	24.4	57	21		49		*PP	49	45	SCS	50	30	
SEP 22			16.2	43	25		33	40							
351 22	. 04	133	1002	43											
SEP 24	17	DE26	25												
SEP 24		149													
SEP 25		D106				I	06	29							1.8
SEP 25		C123													1.6
SEP 25	14	C147	23.9	55	41	I	47	30	PCP	48	04				1.8
SEP 25	14	152	37.0												
SEP 25		C103				*PP	03	54	I	04	06				1.9
SEP 25			02.8												1.9
SEP 25			48.8												
SEP 26	21	DE53	07			PP	55	39	PKS	56	38				
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SEP 28		DE59	0.0			PP	28	26	1	30	25	PPP	21	31	
SEP 29			32.4				27	27							
SEP 30		DE56		64	26	PP			PCP	58	31				
SEP SC	23	DESO	30	04	20		50	10	rcr	20	3-				
OCT OF	00	DIOI	58.2	00	54	*00	02	10	PCP	02	50	PP	04	11	1.7
OCT 03		D156			,	PCP			10		,		-		
OCT 03		154					-	-							
OCT 04		146													
OCT OF		C142				E	42	23							2.4
			9757												
OCT OT	03	C148	49.9	57	35	PCP	49	01	I	49	13	SCS	58	08	2.7
OCT 08		106						17							
OCT 12		150		58	06		50								1.9
OCT 13		DE57				I	57	11							
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YEAR											-		cupp			LOG
1965 MTH	DV	нр	P/F	c	M	SKS	DHASE	M	5	SUPP .	M	S	SUPP	N	1 5	A/T
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OCT			128				I	29	01	PP	07	10	SKKS	14	35	
OCT			DE03		66	02	*PP	58	32	I			PCP			
OCT	23	06	DIIO	29.7										.,		2 2
OCT	25	22	CI43	53.2	51	28	I	44	14	PCP	44	41	PP	40	50	2.3
OCT	28	01	C156	21.5			*PP	56	37							1.8
NOV	03				61	40	*PP	54	05	PP	56	21	SP	64	28	
NOV		18	E13				1	05	46							
NOV			D130					-	70							
							-	25	10							
NOV		03						35								
NOV		03					E	22	34							
NOV			D125				1	04	00							2.1
NOV	12	10	0103	2301				04	00							
NOV		19	101				*00			PP	4.3	42	PCP	42	10	2.8
NOV			CI41 DI23			08		23			46	42	PCP	43	10	2.00
NOV			E53													
NOV	14	06	104	36.7			*PP	04	49							
NOV	15	11	130	43.4			*PP									
NOV			CIll				*PP	_			12	49				2.3
NOV	-		D134 C116			05	LR *PP				38	08				1.8
NOV			DI07					07								2.1
HOW	17	22	110	24 5			1	18	47							
NOV		09	118 E03					20								
NOV	20		C119			24	I	19	13							1.8
NOV		05	104 D145	09.5		38	PKP	49	26	I	50	09	SKS	55	47	
1404			0.42		-				-							
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NOV		20	E30	17.6	43	29										
NOV		02	9 9 7 7 7 7 7 7	34.2												
NOV	27	03	115	16.4												
NOV	27	08	C153	06.0												2.1
NOV		05	132			57				PCS	38	56				2.5
NOV			DI44 DI08				1	44	41							2.0
DEC		15	124													
DEC	02	21	125	06 5			*PP	25	17	PP	26	41	PPP	27	09	
DEC		02	CI21	06.5				22			-0	-				1.6
DEC	05		C124		31	58	I	25	21							2.3
DEC		08	E03	57 38	5.9	12	SS	63	49							
DEC	00	11	-41	30	,,,											
			124			0.	PKP									
DEC		06	E20	20	31	06		30								
DEC			D101	57.7		55	*PP	02	10							
DEC	15	23	118	23.6	29	17	I	18	31	I	18	35	PP	22	00	
DEC	20	00	114	16.3	19	17	I	14	55	I	15	12	I	15	37	
DEC	21	10						59								
DEC		00	138	34.8			*56	38	15							
DEC			D150			50	*PP	50	45	scs	60	16	LR	65	11	2.5

	KIRKENES (KRK	() SEISMIC ST	ATION	BULLETIN - 1965	PAGE 10
YEAR					
					SUPP. 3 LOG
MTH DY HR	MSN	A S PHASE	MS	PHASE M S	PHASE M S A/T
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DEC 23 20	C156 29.2 63	3 41 *PF	56 38	I 57 15	2.3
DEC 26 04		SKS	17 51	SKS 18 31	PS 20 22
DEC 28 20	143 42.5 52	2 58 *PF	43 53		
056 30 03	C116 00 E	1	17 00		