UNIVERSITETET I BERGEN JORDSKJELVSTASJONEN (Seismological Observatory)

Seismological Bulletin Lillehammer, Norway April 1, 1965 - December 31, 1965

By

ANDERS SØRNES and JAKOB BLEIE

BERGEN-NORWAY 1966

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LILLEHAMMER [LHN] NORWAY

Latitude: 61° 02' 57"

Longitude: 10° 52' 48"

Elevation: 555 m

Foudation: Slate

Instrument	Weight of mass in kgm			Magnifi-	Damping	Film speed
CANDU ADELLICOTOLU LAS	mass in kgm	Ts	Tg	cation at		mm/min
Benioff vertical	107 5	1,0	0,2	125000	15:1	15
Benioff horizontal (Az = 138°)	100,0	1,0	0,2	125000	15:1	15
Benioff horizontal (Az = 228°)	100,0	1,0	0,2	125000	15:1	15
Sprengnether vertical	11,2	20	30	15000	Critical	3
Sprengnether horizontal (Az = 138°)	10,7	20	30	15000	Critical	3
Sprengnether horizontal (Az = 228°)	10,7	20	30	15000	Critical	3

The data given in this bulletin refer to the position and instrumentation mentioned above. The recordings are obtained by 35 mm film recorders. Both the short and the long period systems include phototube-amplifiers having a galvanometer with periods 0, 2 and 30 sec., respectively The arrival time given for each phase is the earliest onset of that phase on any component. The exact time of some few phases, however, is read from the recordings obtained by

> two other recording systems. The station comprises, besides the already mentioned instrumentation, 6 other identical vertical Benioff seismometers placed around the quoted position making it into a 7 element crossed array of seismometers with a spacing of 1 km. All this data are recorded on a IRIG standard one inch wide 14 channel FM-modulated magnetic tape at a speed of 0, 3 inch/sec, and all short period data is also recorded on 16 mm film by a Develocorder using galvanometers with a natural frequency of 16 cps and a film speed of 30 mm/min.

> The readings have been punched on cards according to the codes given by the International Seismological Research Centre in Edinburgh. This bulletin is a reproduction of a print-out of these cards sent us from the Centre in Edinburgh. Only capital letters are used,

and pP for example is indicated by PP

The logarithm of the amplitude/period ratio, log 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 centre 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 station began its normal operation in August 1963 and was at that time called 00 NW Oslo. The Geotechnical Corporation undertook the installation of the station and also the operation of it until 1st April 1965. At that date operation of the station was undertaken by the Seismological Observatory, University of Bergen, on an Advanced Research Project Agency (ARPA) contract through the European Office of Aerospace Research, expiring 31st December 1966.

	LILLEHAMMER	(LHN) SF	ISMIC STATION	BULLETIN - 1044	
YEAR *	* * * * * *	* * * *	* * * * * *	DOLLE IN - 196	PAGE 1
1965	D/PKP	SISKS	SUDD. 1	CUIDD 2	SUPP. 3 LOG
MTH DY	HD M C	M C	DHACE M C	DHACE W	PHASE M S A/T
* * *	* * * * * *		THASE M S	PHASE M S	PHASE M S A/T
APR 01	01 117 40.0				
APR 01	07 121 42.2				
APR 01	12 F34 46		I 35 03		
APR 01	13 139 40-0	,	1 35 03		
APR 01	18 103 01.0				
01	10 105 01.0				
APR 02	08 E53 38				
APR 02	15 154 26-6	55 38			
APR 02	16 DIO2 54-2	, ,, ,,			1.6
APR 02	16 DIO2 54.2 16 I39 23.4	PT (FE			
APR 02	22 DI33 33.1				
1					
APR 02	22 DI34 37.4 23 E15 36		*DD 34 47	DD 24 12	PCP 36 37 1.6
APR 02	23 F15 36				
APR 03	02 148 47.7		*PP 48 59		HEROTE BUILDINGS
APR 03	03 DI10 10.3		*FF 40 39		1.3
APR 03	03 E49 02				1.0
AFR US	03 649 02				
APR 03	03 141 25.1				
APR 03	04 103 03.2				
APR 03	08 E59 05				
APR 03	11 E33 19				
APR 03	12 E44 45				
AFR US					
APR 03	14 DI35 58.0 15 CI06 24.7			3,0 13,027	
	15 6100 24 7		*PP 36 08	PPP 36 48	I 51 54 1.6
APR 03	15 (106 24.7				
APR 03	16 E12 05				
APR 03	18 DI51 15.0				
APR 03	18 DI51 15.0 23 104 13.9		1 04 23	1 04 29	
APR 04	07 E17 31				
	07 517 31				
APR 04	09 501 06				
APR 04	11 0110 28.6	0 039	24 4C 994	DAME !	2013-37 03 994
APR 04	13 0141 26.7	50 19	*PP 41 36	LQ 58 58	E 73 20
APR 04	14 DIO1 55.0				
PR 23	23 0104-14-2				
APR 04	15 DI55 47.8				
APR 04	16 DIO1 18.9				
APR 04	10 UIIZ 23.4				
APR 04	16 DI29 44.9				
APR 04	16 CI52 20.7				
400 01	10				
APR 04	19 119 04.7				
APR 04	20 CI43 57.0				
APR 04	20 E56 37				
APR 04	22 DE59 29				
APR 05	02 124 29.8				
APR 05	03 118 10.1	22 34	I 18 12	E 25 12	I 27 24
APR 05	03 E48 55				
APR 05	14 CI03 16.9		PP 05 47		
APR 05	14 DI53 11.3				
APR 05	17 DIO6 32.7				
20 24 50	14 5110 12.11				
APR 05	18 DI14 36.7				
APR 05	19 E43 59				
APR 05	21 CI19 41.7				
APR 06	03 DI29 48.9				
APR 06	04 DI38 51.0				1.5
P. 6 2 8	06 JOE 45 MO-3				
APR 06	05 CI43 32.7		PP 46 15		
APR 06	08 121 45.9		*PP 22 06		
APR 06	09 156 11.2		PP 60 14		
APR 06	12 145 30.8				
APR 06	13 DI29 56.0				

APR APR	06	14	D128 E06	01.1		edi.	roui	ed the	0 633	ion Te						
APR APR APR	07	03	C122	03.2												1.7
APR APR APR	07	04 06 14	154	32.8							S*	11	28			
APR APR	08	18 02 13		55.9				*PP	09	05	S*					1.3
APR APR APR APR	08 08 08	13 14 15	DI54 DI41 DI55 E54	37.9 58.4 08.7	63	3 35		*PP	54	54	LQ	71	18	E 76		
APR APR APR	09	03	DI23 CI13 I30	45.5							I		10	1 09	52	
APR	09	11	D105	07.3												1.3
APR APR APR APR	09 10 10	15 00 00	E21 CI02 DI25 DI33	46 44.2 43.1	0.	7 27		PCP	06	00	E	10	54			1.8
APR APR APR APR	10 10 10	14 17 21	I11 CI19 CI05 E29 E51	33.6 38.0 24	2				21	18	E	35 06	59			
APR APR APR	11 11	23 00 02	E11 E30 DI23	20				SKP PKP2								
APR APR			DIIO					*PPKP	12	12						
APR APR APR APR	12 12 12	04 09 15	DI43 CI09 CI11 I33 DI02	58.9 07.8 02.6				*PP	43	41						
APR APR APR APR	12 12 12	20 20 21	DI18 CI45 DI52 CI47 DI01	49.3 39.4 48.8	3			I PKP2	53	01	*PP	54	17	PP 55	45	
APR APR APR	13 13 13	17 17 18 23	DI56 DI06 DI33	14.7 05.3 32.3 35.8	7 3 3 3 3			*05	5.7	28						1.3
APR APR APR APR APR	14 14 14	07	146 DI30 DI05 CI09 DI11	01.6 57.6 44.6	B 2 0 4			*PF	46							1.2

YEAR * 1965 MTH DY	LILLEHAMMER * * * * * * * P/PKP HR M S	S/SKS M S	SUPP. 1 PHASE M	S	SUPP. 2 PHASE M	5	SUPP. 3	LOG
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APR 15	01 E33 46							
APR 15	05 DI21 30.9		PCP 2	1 39				
APR 15	08 104 12.9							
APR 16	00 E35 08							
APR 16	01 E33 46 05 D121 30.9 08 104 12.9 00 E35 08 10 D118 21.7							
APR 16	14 0144 2000							
APR 16	23 CI31 48.1	39 23	E 48	28	PCP 92	43		
APR 17	00 DIII 12.2		*PP 1	1 24				
APR 17	02 157 19.6		1 5	7 26				
APR 17	03 148 11.5							
APR 17	06 119 56.7				PCP 92			
APR 18	13 101 50.5							
APR 18	14 CI27 37.6							
APR 18	23 119 39.4	20 22						
APR 19	04 E59 42	20 23						
NFK 19	04 237 42							
APR 19	06 152 30-1							
APR 19	08 I18 43.6		*PP 18	50				
APR 19	11 E33 05		1 42 9	,,				
APR 19	16 CI12 05.2		**** 10					
APR 19	18 E37 22							
11. 100	3117 A3.V							
APR 19	23 DI53 39.2	63 16	*PP 53	51	LQ 73	52	E 82 2	
APR 20	04 E55 31					2000	21.0149	AFR 26
APR 20	06 DI53 52.9		*PP 54	03				1.8
APR 20	07 CI00 38.4		80 82	199				1.9
APR 20	17 E28 45							APR 26
Y DATE	CE11 28							
APR 20	22 133 51.9							
APR 21	00 DI12 10.8							
APR 21	10 E50 03							
APR 21	20 E47 04							
APR 21	21 137 17.2							
APR 21	23 CI04 14.2							
APR 22	01 DI24 37.0		SKP 27	44				
APR 22	01 151 52.2							
APR 22	08 E20 43							
APR 22	15 110 56.6							
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APR 22	18 DI46 51.1		*PP 47	02	E 69	44		
APR 23	01 DI18 24.6							
APR 23	02 E08 57							
APR 23	03 119 56.9							SQ DISA
APR 24	00 DI24 20.4		I 24	+ 41				1.7
APR 24	02 E02 34							APR 28
APR 24	02 E02 34 03 E19 16							
APR 24	04 157 04.2							
APR 24	05		I 40	1 20				
APR 24	08 CI14 46.9		I 74	00				
AFR 24	00 0114 40.9		1 /1	. 08				
APR 24	10 DI30 52.3							
APR 24	20 CI09 47.6		PP 11	26				
APR 24	20 DI23 24.1							1.3
APR 24	22 DIO8 53.3		PP 12	46				05 .99A
APR 25	00 DI32 27.6		36 20 9					
47 13 04	138 9348							
APR 25	00 CI45 40.1							
APR 25	01 DI12 54.1	23 14	I 13	06	PP 16	15		2.1
APR 25	01 CI54 18.4					2.84		OF RYA
APR 25	01 159 44.2							
APR 25	02 CI35 34.1							

LILLEHAMMER (LYEAR * * * * * * * * * * * * * * * * * * *	S/SKS S	SUPP. 1	SUPP. 2 PHASE M	S F	SUPP.	3	* * LOG A/T
APR 25 02 E57 45 APR 25 03 I05 28.8							
APR 25 05 E50 21		*PP 50 37					
APR 25 08 132 28.2 APR 25 08 150 19.7							
APR 25 10 CI11 49.7							
APR 25 12 DI51 03.8 APR 25 14 CI18 17.8							1.4
APR 25 14 DI42 40.5 APR 25 15 134 32.2		*PP 34 44					1.4
APR 25 15 143 24.3		*PP 43 34					
APR 25 16 DI47 19.9							
APR 25 21 126 28.8 APR 25 21 DI40 33.5							
APR 26 02 CI07 11.4							
APR 26 02 107 11.2 APR 26 03 132 21.7		*PP 07 22	LQ 21	38			
APR 26 13 139 04.9							
APR 26 15 E36 26 APR 26 20 CI39 42.7		PCP 40 24					2.1
APR 26 21 DI49 03.9							
APR 26 22 DI12 40.6		20_42_998					NAM.
APR 26 22 CI27 54.8 APR 26 22 DI46 56.2	38 18	*PP 28 06 I 47 07					1.7
APR 26 23 DI09 07.2		. 4. 0.					
APR 27 01 DI01 47.7							
APR 27 02 CI29 50.0 APR 27 02 DI56 12.7							
APR 27 03 CE33 45							
APR 27 11 108 50.6							
APR 27 14 DI14 41.5	19 31	PCP 18 00	E 24	02			
APR 27 15 DIO0 53.9 APR 27 15 DIO6 15.2							
APR 28 09 E55 58 APR 28 12 DI19 23.4							
APR 28 13 E49 09 APR 28 14 I44 55.4							
APR 28 16 CI44 17.2							
APR 28 17 DIO1 44.8 APR 28 23 E07 03							
APR 29 04 DI27 34.0							
APR 29 06 DI19 15.0							0.9
APR 29 09 152 31.3 APR 29 10 E03 02							
APR 29 11 132 38.5							
APR 29 11 DI48 01.4							
APR 29 14 DI15 08.8 APR 29 15 CI39 22.7	48 07	*PP 39 37	PKPPKP 68	01	1 68	19	
APR 29 16 IO1 45.7 APR 29 22 DI51 49.0		PP 05 46					
APR 30 11 DI56 47.9 APR 30 16 I11 48.9							
APR 30 19 E42 24							
MAY 01 02 DI05 19.6 MAY 01 02 DI07 53.2							

	5		P/1		5/	SKS		1		SI	UPP			SUPP	3		E LO
	DY * *	HR * *	* *				PHASE * * * *						5	HASE	M .	S	A/
	01	04		26.1													-9
	01		CII6														
	01		DI37				*PP	37	48								1.
	02	10.70	DIIS				PCP										
	02	00	E46						-								
AV	02	07	E25	39													
	02	09		48.2													1.
AY	02	11	DIIO	35.6													
	02	22	139	00.8													
AY	02	22			47	47	SG	48	00								
AY	03	10	114	00.6	24	32											
	03	16	E15														
	03	17		46.5			*PP	51	58								
	03	21		10.0													
AY	04	05	DI19	11.6													
	04		D142	58.6	49	30			58		PP	44	42	SS S	2 4	1	
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	05		D145					45									
	05		DI12				1	12	57								
AY	05	23	E36	23													
	06	02	E00														
	06	04	E33														
	06	10		21.3	03	52	I	03	22		PG	03	33				
	06		CE11														
AT	06	14	E42	42													
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	07	00	E45														
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^'	٠.	02	0142														
	07		D121														
	07		DI47														
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	07		DI52						34								
AY	07	17	DI12	01.2			I SE PERP	12	15								
AY	07	19	E22	13													
	08		D129														0.
	08			59.2													
	08	17	E02														
41	09	00	109	46.3													
	11			18.7													
	11	17		19.4			*PP										
	11		D140				PP	40	23								
	12		C139					-									
AY	12	06	120	24.5			1	22	11								
	12	06	E21				I	22	11								
	12	17	E31														
	13	03	E06														
	13	04		43.8													
AY	13	07	E09	23													
	13			41.3													
	13			22.7													
	13			33.9													
AY	13			15.8													
AY																	

	30	LII	LEHAN	MER (LHN	SE	ISMIC ST	ATI	ON E	BULLETIN	Y -	1965			P	AGE	6	
1965		* *	* * 1	OK D	* *	* *	SHIPP.	1	* *	* * * *	. 2	* *	SII	DD.	3	*	LOG	
MTH	DY	HR	M	5	M	5	PHASE	M	S	PHASE	M	S	PHA	SE	M	S	A/T	
* *		* *	* * 1	* * *	* *	* *	* * * 1	*	* *	* * *		* *	* *	* *	* *	*	* *	
MAY	14	09	D157	07.8														
MAY	14	17	DIOL	18.7														
MAY	14	17	E41	42														
MAY		21	E14															
MAY	15	18	E49	23														
MAY	16	21	0112	07.0														
MAY			DI12															
MAY			CI41				*PF	41	51									
MAY			DI45															
MAY		11	D149	15.3														
MAY			C135															
MAY			D131		41	39	PF	34	35	PPP	36	45		E 59	9 12			
MAY			DI31															
MAY		01		45.7														
rin i	10	-																
MAY	18	08	E17	02														
MAY	18	11	DIOO	07.9														
MAY			D157															
MAY			D119															
MAY	19	03	CI21	56.6														
MAY	10	04	140	40.0														
MAY			DI07															
MAY			DIIB															
MAY			D128															
MAY	19	23	D150	31.5			1	50	39	SKP	53	29						
			0.0															
MAY			D159		66	30	PKF			PKS	62	48						
MAY			D149	56.9		39	SKI	52	50								1.8	
MAY		15	D121	24.2	47	24												
MAY			DI03															
	-	0.10																
MAY	23	01	D147	47.1														
MAY			D109															
MAY			C158															
MAY			C157	21.4	05	E 2	DI		22	PKPPKP	0.5							
MAY	23	23			05	23	P1	. 29	32	PKPPKP	00	,						
MAY	24	03	E46	56														
MAY		14	E00															
MAY			D134				*PI	34	16	PP	37	41						
MAY		01	E42															
MAY	25	13	DI18	44.2														
	20		145	00.0		5.2	-		1.									
MAY		14		09.0	45	53	P	45	16									
MAY		17	E43	34.6														
MAY		05		05.4														
MAY		07		45.4														
			153													36		
MAY			D104															
MAY			E13															
MAY		20		48.7			*PPKI	0 03	20								1.6	
- IAI	20	20	.02				FFK	03	-0									
MAY	26	22	CI19	52.5				20	02								1.3	
MAY			C138															
MAY			D143														1.1	
MAY			124															
MAY	27	19	C140	04.9			*PI	40	14									

YEAR * * * * * *	(LHN) SEISMI	STATION BUL	LETIN - 1965 * * * * * * * * * * * * * * * * * * *	PAGE 7
1965 P/PKP MTH DY HR M S	S/SKS SI M S PH		SUPP. 2 PHASE M S PI	HASE M S A/T
	* * * * * * * * 3	* * * * * *	* * * * * * *	
MAY 28 03 E57 44		P* 57 49	PG 57 52	
MAY 29 01 E53 25				
MAY 29 04 E20 34				
MAY 29 12 CIO6 11. MAY 29 15 DI56 33.				
MAY 30 01 CI25 09. MAY 30 11 E46 30	8			
MAY 30 13 157 36.				
MAY 31 00 120 58.				
MAY 31 02 113 43. MAY 31 03 CI31 24.				
MAY 31 08 CI49 36. MAY 31 11 CI35 51.		*PP 50 04	PP 52 21	
		PKP 57 00		
MAY 31 11 E52 57 MAY 31 15 DI10 17	1	PKP 37 00		
MAY 31 17 124 31		*PP 44 12		
JUN 01 08 DI02 09	6	1 02 19		
JUN 01 15 E22 56				
JUN 01 15 E25 07 JUN 01 23 E49 00	51 14	SS 51 31		
JUN 02 05 DI31 25				
JUN 02 23 CI50 34	2 58 51			
JUN 03 11 CI08 18	6	*PP 08 30		
JUN 03 13 CI35 35	9	21 \$82496 \$	0.40	
JUN 03 18 DI36 49	7 41 00	PP 37 18	PPP 37 36	
JUN 03 20 CI41 28				
JUN 04 05	13 59	I 12 42	1 14 07	
JUN 04 15 CI13 14. JUN 04 15 DI46 13.				
JUN 04 18 148 41	.3			
JUN 05 00 CI35 44				
JUN 06 09 DI48 51	2 51 04			
JUN 06 11 DI33 22				
JUN 06 15 152 14 JUN 06 20 CI37 59				
JUN 06 21 DI48 15 JUN 06 23 CI25 15				
JUN 07 05 DI01 47				
JUN 07 06 DI36 37				
JUN 07 13 E53 23 JUN 08 06 DI26 20		1 26 40		
JUN 08 13 CI52 24 JUN 08 23 DI35 26				
JUN 09 12 133 52				
JUN 09 13 DI37 37		*PP 37 47		
JUN 09 15 JUN 09 16 114 22		I 05 22 I 14 27	1 06 01	
JUN 09 18 100 56	.3 01 31	P* 01 01	PG 01 06	SG 01 44

	37 23	* * * * * * * * 1 SUPP. 2	* * * * * * * * * * * * * * * * * * *
JUN 10 06 E32 32 JUN 10 07 DI05 27•3 JUN 10 15 DI29 41•6		05 36	
JUN 10 23 D125 23.6 JUN 11 02 D148 24.3 JUN 11 03 C125 27.0 JUN 11 03 D144 48.0 JUN 11 03 C152 01.9	53 30 *PP	45 01 PKPPKP 72	56 - M TOL LE OF YER
JUN 11 03 D155 38.3 JUN 11 03 D157 59.3 JUN 11 04 C104 03.0 JUN 11 04 C111 52.3 JUN 11 04 D114 22.1			
JUN 11 04 DI25 56.8 JUN 11 04 DE55 59 JUN 11 05 CI09 03.2 JUN 11 05 DI10 43.7 JUN 11 05 CI22 32.4			
JUN 11 05 CI37 58.7 JUN 11 05 DI56 06.1 JUN 11 06 CI08 16.9 JUN 11 06 DI15 32.2 JUN 11 07 DI22 10.3			
JUN 11 07 CI38 51.6 JUN 11 08 CI27 35.4 JUN 11 08 DI52 06.0	*PP !	52 15	
JUN 11 09 CI07 54.7 JUN 11 09 DI19 06.8 JUN 11 10 I10 41.7			
JUN 11 10 D127 44.5 JUN 11 10 130 54.5 JUN 11 10 C132 45.7 JUN 11 10 C152 17.3	*PP !	52 30	
JUN 11 11 DI17 45.5 JUN 11 12 DI11 01.3 JUN 11 12 DI48 28.2		11 09 PCP 11	22 1 12 12
JUN 11 12 CI57 50.7 JUN 11 13 DI55 13.9			
JUN 11 14 DI40 03.0 JUN 11 15 DI25 57.0 JUN 11 15 DI50 41.1 JUN 11 16 CI32 08.0 JUN 11 17 DI23 16.3			
JUN 11 18 DI40 53.0 JUN 11 20 DI55 27.9 JUN 11 23 DI03 36.7		41 05	
JUN 12 00 DI32 04.7 JUN 12 02 DI14 11.7 JUN 12 03 DI03 27.8			
JUN 12 03 CI20 54.4 JUN 12 05 DI19 50.5 JUN 12 05 CI39 32.2 JUN 12 05 DI39 47.1	*РР		

LILLEHAMMER (YEAR * * * * * * * * 1965 P/PKP MTH DY HR M S * * * * * * * * JUN 12 05 CI42 27.2		TION BULLETIN - * * * * * * * * * * * * * * * * * * *	1965 PAGE 9 * * * * * * * * * * SUPP• 3 LOG S PHASE M S A/T * * * * * * * * *
JUN 12 05 C152 05.7 JUN 12 06 C114 40.3 JUN 12 06 D128 17.9 JUN 12 06 C157 33.8	*РР		
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YEAR * * * * * * * * * 1965 P/P MTH DY HR M * * * * * * * * * * * * * * * * * * *	MMER (LHN) SEISMI * * * * * * * * * * PKP S/SKS S S M S PH * * * * * * * * * 36.5 46.9 14.6 09.2 21	* * * * * * * * * * * * * * * * * * *	* * * * * SUPP• 2 PHASE M * * * *	* * * * * * * * * * * * * * * * * * *	PAGE 12 * * * * * * LOG M S A/T * * * *
JUL 18 08 109 JUL 18 10 110 JUL 18 12 149 JUL 18 13 151	21.9 43.3 25.9 26.0 10.3				
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NUG 03	07	E45													
UG 03	12	E25 101				I		47							
UG 04			05.7			*РР	18	31							
UG 04	06 11	E59 E53				E	59 54	25							
UG 04	19	C139	05.8			Ε	20								
UG 05	00	E22	49	34	44	PKP	26	32	PP	27	42	PKKP	37	29	1.
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UG 11 UG 11	12		37.0			PAP	00	01	PP	02	38	PKS	03	36	1.
UG 11	19	E09													
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UG 11	20	E33				PKP			PKS	36	34	I	36	36	
UG 11	22	E50 E18				PKP PKP						PKS		26	
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UG 12	03		00.1			I	42	04							
UG 12	08	120 E15	45.0			PKP				21 17		PKS	24	21	
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UG 13	05	E00				PKP	00	20	PKS	03	01				
UG 13	11					I	14	34	,	-					
UG 13	12	E44 E59				PKS PKP			1	59	50	PKS	63	14	
UG 13	13						32		6					-	

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1965 P/PKP :	M S PHAS	P. 1		SUPP.	2	SUPP.	3 LOG
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AUG 13 18 E15 38							
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AUG 14 11 E26 59 AUG 14 11 DI50 35.6							
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AUG 14 13 137 05.8							
AUG 14 17 DI22 39.3		I 22	4.2				
AUG 15 06 C107 39.2		,	43				
AUG 15 10		1 33	59	1 34	10		
AUG 15 19 C148 56.7 AUG 15 20 103 13.2							1.9
		1 03	15				
AUG 16 04 E44 02	0 05	LO 52	47	LR 54	12		
AUG 16 07		1 25	18	1 25	29		
AUG 16 12 129 26.2 AUG 16 12 DI32 09.3	*	PP 29	36				
AUG 16 12 C147 06.9	55 20 *	PP 47		PCP 47	7 40	PPP 51	18 1.8
AUG 16 15 127 26.8 AUG 16 20 E00 39		I 27	31	I 27	7 37	1 27	53
AUG 17 00 E29 49		PP 00	46				
AUG 17 10 147 27.3	*	PP107	17	1107	7 50		
AUG 17 13 E23 05							
AUG 17 13 C127 05.5							
AUG 17 14 114 31.9							
AUG 17 16 E36 54		E 36	59	PP 39	12	PKS 40	21
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AUG 19 19 CI58 43.6	P	CP 58	52				
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AUG 23 21 E49 40		I 49	44				
AUG 23 23 124 54.0 AUG 23 23 D126 15.1		1 26	21				
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AUG 24 13 E22 15							

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1965 MTH DY		P/P M	KP	S/S	SKS	SUPP.	M	s	SUPP.	2 M	5	PHASE	• 3 M	S A	1/1
* * * AUG 25	* *	* * * CI02	* *			* * * * I	4 1	40	* * * *	*	* *	* * *	* * *	* * *	*
AUG 25	05		36.6												
AUG 27 AUG 27	04	129 C133	41.8	34	51	*PP	29	18	PCP	29	56				
AUG 28		DI01				5359 20	-	-		-	-				
AUG 28	18	150	28.1												
AUG 29	01	E58	13	68	44										
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AUG 29	16	E09	39			100.0									
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AUG 31	08	100	01.2			1	00	18				20 20	95		
AUG 31	08	E15	39			I see	15	41	1	15	45				
AUG 31	10	157	12.8			Ī	57								
AUG 31 AUG 31		D155	55.9			E	45	24							
SEP 01	04	D139	00.3			PCP			*****	00					
SEP 01	05	C107	10.3			1				08	01				
SEP 01			25.2			SKP *PP	60	34							
SEP 02 SEP 02			27.8			***	31	10							
SEP 02	04	C137				*PP				58					
SEP 02	05	E34	30			I									
SEP 02			40.3				11								
SEP 02	13	D116	20.2			I	32								
SEP 02		DI14	42.2			I	11	12							
SEP 02 SEP 03		CI39	45.0			I *PP									
SEP 04	10	E30	52			1	30	55	*PP			75 001	81		
SEP 04		C142	56.9	51	32	P		05				SS		0	
SEP 06		DI03	51.1 35.7		28	P*		58							
SEP 06	20					E	42	49	I	42	57				
SEP OF			15			PCP		19							
SEP OF		-	33.2			*PP	26	59							
SEP OF	1 13				VOV.	E	19	19	I	19	23				
SEP 09		C150	47.4	59	21	I						85 ESI 86 ESS			
			11												
SEP 10		E35						36		35					
SEP 1	19	137	20.7												
SEP 1						PP	13	12	SKKS	19	48	PKKP	22 2	7	
SEP 1		C158				PE	60	16	SKKS	67	08	PKKP	69 1	5	1.6
SEP 1	2 22	107	00.8												
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1965 P/PKP	S/SKS SUPP.	1 SUPP.	2 SUPP 3 10G
MTH DY HR M S	M S PHASE	M S PHASE	M S PHASE M S A/T
SEP 16 13 E35 51	Q.A.		##86 Sollo do de aux
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		07 25	ADG 27 OA (29 MIs# 3
SEP 17 12 100 07.6	37 28 1	26 40 *PP 2	7 25 1 27 58
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SEP 17 14 DI34 16.6 SEP 17 15 E09 04		34 28	
SEP 17 15 CI30 14.2	*PP		0 35
SEP 17 16 CI32 57.2			5 44 VE 005 all 01 qua
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SEP 18 20 E56 34		24 28	
SEP 21 01 150 02.1		50 50	
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SEP 22 15 SEP 22 20 E20 29		55 23 20 41	
SEP 22 22 CI19 38.3	_		9 50 PCP 19 53
		59 09	2,01 7010 80 10,002
SEP 25 14 148 38.6			
SEP 25 14 E53 52			
SEP 25 15 CIO4 58.5			
SEP 25 15 155 53.3 SEP 26 00 E48 48		55 57	
SEP 26 21 E52 46	PP I	54 18 PKKP 6	4 24
SEP 27 01 DI19 23.8 SEP 27 05 DI20 01.8	10.0	20.00	
SEP 27 15 E00 11	i	01 17	
SEP 27 20 150 41.7			
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SEP 28 07		59 58	SEP 03 16 729 4613
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OCT 01 22 153 20.6 OCT 02 09 DI09 22.1	PP	55 05	
OCT 02 12 DI19 43.3	*PP	19 58	
OCT 02 13	1	24 05	
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OCT 03 10 157 07.1	1	57 09 1 5	7 23 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
OCT 03 14 DI56 14.2	64 46 PCP	56 47 PCS 60	1 78 42
OCT 03 16 133 53.3 OCT 03 20 124 39.0	РР		7 09
OCT 04 00 113 17.5			
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OCT 05 09 156 00.8		57 07	

1965 P/PKP S/SKS SI MTH DY HR M S M S PH/ *** ** ** ** ** ** ** OCT 06 08 I13 27.2	C STATION BULLETIN - 1965 PAGE 17 * * * * * * * * * * * * * * * * * * *
OCT 06 22 149 22-7	1 68 22
OCT 07 07 116 57.5	SKP 20 03
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OCT 09 04 143 22.7 OCT 09 05 103 58.9 OCT 09 09 E49 08	
OCT 09 11 11 52 OCT 09 13 135 31.5	*PP 35 48
OCT 10 00 146 50.5	*PP 33 14
OCT 10 17 144 35.0	I 44 58 E 05 38
OCT 11 05 105 27.0 OCT 11 20 112 34.6 OCT 12 07 106 46.1 OCT 12 08 126 19.9	E 05 38
OCT 12 13 151 20.4 60 00 OCT 12 14 133 56.7 OCT 12 15 108 37.3	P 51 23 I 51 29 *PP 51 33
OCT 12 18 OCT 12 18 139 34.6	I 09 12 I 11 49
OCT 13 03 156 55.4 OCT 13 11 OCT 13 15 105 47.4 OCT 13 15 132 56.3	I 44 01 I 45 07
OCT 13 15 132 56.3 OCT 13 15 154 34.5	
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OCT 18 22 IO4 06.1 15 11 OCT 18 23 DIO3 10.7 OCT 19 09 I11 34.0 OCT 19 13 IO4 21.5	PP 08 28 PS 18 20
OCT 19 20 CI59 31.0 68 00	I 59 32 *PP 59 44 SCS 68 50
OCT 20 03 154 00•2 OCT 20 11 119 06•0 OCT 20 12 105 32•4 OCT 20 19 154 17•4	
OCT 21 00 106 50•1	1 07 07

YEAR * * * 1965	LLEHAMMER (LHN) S * * * * * * * * P/PKP S/SKS	EISMIC STATION * * * * * * * * * * * * * * * * * * *	BULLETIN - 1 * * * * * * * SUPP. 2	965 PAGE 18 * * * * * * * * * * * * * * * * * * *
OCT 21 02				* * * * * * * * *
OCT 21 02				
OCT 21 16	104 58.9	*PP 05 0:	3	
OCT 21 18 OCT 22 02	157 55.7			
001 22 02	114 46.9	I 15 03	3	
OCT 22 13	135 41.5 111 32.0 142 05.0			
OCT 23 06	I11 32.0			
OCT 23 08 OCT 23 14	142 05 0	PKP2 35 26	5	
	130 14.1			
THE TAX SERVICE	130 14.1			
OCT 24 11	131 47.5 33 35	I 34 24	P.CR 260 25	
OCT 24 12 OCT 24 14	120 23.6 145 31.2			
OCT 24 16				
OCT 24 17				
OCT 24 18 OCT 24 18	125 50.7 156 40.3	****		
OCT 24 19	118 09.4	*PP 56 53		
OCT 24 20	138 38.6			
OCT 25 00	127 12.5	*PP 27 24		
OCT 25 14				
OCT 25 16	117 40.9			
	CI45 09.6 54 12	SCS 55 11	LQ 62 30	PKPPKP 73 19
OCT 26 07	144 17.8			10 11 130
OCT 26 09	111 20.5			
OCT 26 23		E 28 27		
OCT 27 13				
OCT 27 22	150 43.1 C157 33.5			
OCT 28 01 OCT 28 04	C157 33.5 C132 23.2	*PP 57 47		
001 28 04	C132 23.2			
OCT 28 06	DI04 34.3			
OCT 28 14	144 59.8			
OCT 29 04 OCT 29 11		1 28 43	I 21 14	
OCT 29 21	CI10 55.0	I 18 26	I 21 14	OCY 13 15 192 56v7
		1 11 07	PAPPAP 39 15	DCY 13 15, 198 384.9
	E02 32			
OCT 31 23 NOV 01 18	C120 29.2			
NOV 02 01	107 41-8	I 22 16	SKP 24 26	002 261 (1 91 COO
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NOV 02 12	158 56.7 60 11	PG 59 25	SG 60 48	
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NOV 03 07	158 06.9			
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NOV 08 03	E04 52			
NOV 08 19	150 08.2			
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NOV 09 10	135 11.2	*PPKP 35 24		
	D149 04.7	I 49 20		
NOV 09 15	E38 56			

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	+ +	# #									* * * *					*	* * *
VOF	10	10	E11	44													
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404	**	-	10,	34.													
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VON			D105		22	00		*PP	-			06		B. Charles	08	30	
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	16	4	C133			55		0.0	35	-		42	54	LR	46	16	
	16		CI17	52.1	21	25		1	48	10							
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	10	22	110	26 7				0.	10	40	00.	19	46				
	18	22	DI25	35.7				1	19	40	1	19	40				0.
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	19		DIZZ														
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NO	20		104	27 5				,	04	4.0	DD.	06	32				
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	21		DI12										4				
NOV	21	05	C105	17.9				E	06	24	PP	06	37				
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	21			40					7,	30	FAF	-0	616	5 900		1	
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	22		136	25.0		23		PS	45	42	SCS	46	16	SS	50	29	1.
NOV	22	20	150	46.7													
NO	22	02	120	43.0	77			*PP	28	57	36 4						
	23		CI07							,							
	24			89.00				E	19	04	I	20	54				
NOV	25	02	112	26.5													
NOV	25	03	145	30.7													
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	25			56													
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YEAR * 1965 MTH DY * * * NOV 26 NOV 26 NOV 26	P/PKP HR M S ******* 00 129 15.4 07 E05 49	S/SKS M S	SUPP. PHASE	* * * 1 M S	* * * * * SUPP. 2 PHASE M		. 3 LOG M S A/T
NOV 27 NOV 27	03 116 24.6			16 42 54 20	PP 56	51	
NOV 27 NOV 27 NOV 28 NOV 28 NOV 29	11 E08 42 12 I20 46.0 05 CI31 41.6 13 CI11 04.0 09 I10 51.7		PCS	38 35			
NOV 29 DEC 01 DEC 02 DEC 02 DEC 02	14 E29 41 10 E37 13 06 I09 38.3 06 E51 27	30 L 30 L 32 85		09 50 26 05			
DEC 03 DEC 04 DEC 04 DEC 05	15 CI24 32.9 21 CI25 41.0 02 CI22 51.0 16 E45 55 18 CI25 33.3		I :	25 46 22 54 45 58	*PP 25 PCP 23	51 PCP 2	
DEC 05 DEC 06 DEC 06 DEC 06	22 I12 21.0 01 DI33 35.3 08 CI05 13.1 11 E47 38	20 22		33 47		59 LQ 4	1.2 1.7
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DEC 11 DEC 11 DEC 12 DEC 12 DEC 12	19 E18 00 22 E59 39 07 E40 34 10 C135 02.7 13 D145 24.5		PKP2 5	69 50 85 19			1.6
DEC 12 DEC 13 DEC 13 DEC 13 DEC 13	19 DI35 00.3 05 CI09 23.4 05 DI14 50.0 05 DI56 22.8 11 CI03 15.2	12 33	PCP 5		PCP 03 4	•0 PP 0	
DEC 13 DEC 13 DEC 13 DEC 13 DEC 14	14 E57 18 17 E49 01 22 E48 42 23 E04 24 00 D115 13.0	66 36	PCP 5		I 57 5	55 PP 6	0 27
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DEC 15 21 E03 22 DEC 15 23 E17 57 DEC 16 23 E24 51 DEC 17 21 C138 26.0 DEC 18 08 E41 52	1	18 01 *PP 18 25 02 PP 2	3 05 PP 21 18 7 44
DEC 18 09 E26 26 DEC 18 13 DI31 31.8 DEC 19 19 DEC 20 00 CI13 12.5 DEC 20 00 CI35 54.5	17 28 I	26 29 29 36 13 14 PP 1: 35 58	3 51 1 21 05
DEC 20 01 DEC 20 06 DEC 20 07 CI23 16.1 DEC 21 00 CI42 27.1 DEC 21 08 E53 28	I E	10 12 14 38	2 43
DEC 21 10 DEC 21 10 DI57 34.8 DEC 21 16 CI09 55.2 DEC 21 19 I41 36.7	04 36 E	04 27 57 39	1.3 1.1
DEC 22 00 DI39 24.4 DEC 22 00 DI49 01.0 DEC 22 00 E50 46 DEC 22 01 E05 21 DEC 22 03 E32 43	47 58 *PP	39 33 PCS 4	1.2
DEC 22 07 E04 56 DEC 22 07 137 53•7 DEC 22 19 C151 27•3	I		3 06 1.6
DEC 22 23 E36 00 DEC 23 02 I10 01.1 DEC 23 02 DEC 23 06 E08 12	E	36 06 08 16	1.0
DEC 23 11 E18 07 DEC 23 15 DI33 23.7 DEC 23 20 E57 22 DEC 24 04 DI27 38.1	PP	33 24 PP 33 59 41 PPP 63 27 51	
DEC 24 05 DIO7 18.6 DEC 25 03 116 02.0 DEC 25 12 DEC 25 12 I20 32.4	PKP	16 10 PP 18	
DEC 25 14 CI16 05.6 DEC 25 15 DI15 51.8 DEC 25 17 CI51 24.8	I I E	51 30	1.0 1.0 1.8
DEC 25 19 138 52.5 DEC 26 04 E11 48 DEC 26 13 DEC 26 15 CI41 15.8	E	30 15	
DEC 26 15 CI41 15.8 DEC 26 18 DI24 08.2 DEC 27 04 CI19 04.3 DEC 27 06 E53 04 DEC 28 20 CI44 12.1	I PCP	19 09 *PP 19	
DEC 30 02 CI17 11.6 DEC 30 17 CI07 59.7 DEC 31 09 DI44 16.0	I	17 17 08 04	13