## UNIVERSITETET I BERGEN JORDSKJELVSTASJONEN (Seismological Observatory)

Seismological Bulletin Tromsø, Norway 1966—1967

By EIRIK SUNDVOR and ANDERS SØRNES

## UNIVERSITETET I BERGEN JORDSKJELVSTASJONEN

(Seismological Observatory)

Seismological Bulletin Tromsø, Norway 1966—1967

By
EIRIK SUNDVOR and ANDERS SØRNES

BERGEN - NORWAY 1969

## Tromsø (TRO), Norway.

Latitude: 69° 37' 57'' N Longitude: 18° 55' 41'' E Elevation: 28 meters Foundation: Gneiss

The seismological station at Tromsø has been in normal operation since September 17 1960. The US Coast & Geodetic Survey has supplied the seismometers and the recorder. The station is operated by cooperation between Tromsø Museum and the University of Bergen.

The instrumentation comprises a three-component (Z, NS and EW) short period Benioff system with 35 mm film recorder. The free period of the seismometers is 1 sec and of the galvanometer 0.2 sec. The magnification at 1 cps is kept about 50000. Damping ratio: 17/1. The drum speed is 15 mm/min.

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.

HTM * NAL NAL	DY	HR * * 04 11 16	DI15	PKP 1 S * * * 5 18.4 7 35.7 8 16.9	\$ .	/SKS	SUPP. PHASE	1 M *	S	SUPP PHASE	* * * * * * *	S * *	N - 1966 * * * * SUPP. PHASE !	3 4 S	LO A/	G T	REMA	ARKS	* 1
	05	17	132	56.6			PCP	33	16	1	33	22							
JAN	05			16.3			*PP												
	07	07	C154	47.8			200												
	09			31.6															
JAN	10			13.7															
JAN	13	10	D150	42.2					09										
MAL		07	D119	43.7				-											
	17			06.8															
JAN	17	19	D106	08.1															
JAN		20	E25	36															
JAN				13.9															
JAN				02.8			1	15	19										
JAN	22	14	D136	34.6															
JAN	24		E31																
MAL				59.8		44		72.2											
JAN	28			45.7			- 1	49	17										
JAN	28	06	101	14.8															
NAL		08	159	48.6															
JAN		22	D147	36.1			1 *pp	48	09										
JAN	29	-						59	27	1	59	44							
JAN	30	07	C126	49.3	27	49	T	32	17										
FEB			E05																
FE8				32.2			I	29	36										
FEB		12	D110	29.4															
		10	157	46.3															
FEB		02	D107	59.3	13	06	1	18	42	1	19	09							
FEB		15	D123	11.6															
FEB		16	C125	32.8			I		41		26	29							
FEB				59.1			PCP	36	17	ppp	37	33							
FEB	07	05	D139	01.2															
FEB			CI15 E40	21.4			PPP	18	05										
FEB				14.3			*pp	32	4.0										
FEB	10	20	C123	12.5			PCP	23	56										
FEB				43.3			PP 1			PCP	07	26							
FEB				10.9			*PP	55	22										
FEB FEB	15	22	E52	17			PP												
FEB			D137	23.9			I	37	36										
FEB				33.3															
FEB	18	19	C112	29.9			PP	14	41										
FEB		12	E58	49	4.2	18	SG	42	2.7										
FEB				32.5	+2	10	PCP	11	34										

19 MT	H DY	HR * *	* *	PKP S	\$ / M	SKS S	TRO1 SEI	* 1 M	* *	* * *	* * • 2 M	* *	SUPP PHASE	* * * • 3 • M	S A	OG / T	* *	ARKS	* *
FE	3 21 3 22 3 24	00 05	141 E17	33.5 36.1 02 41.5			РР	21	09										
	3 24	05	D149	10.8															
FE	3 25 3 26 3 26	11	D143	30.4					30 39										
FE	3 26	19	144	57.6		36	p*	45	00	SG	45	50							
FEE	3 27 3 27 3 28	20	D157	01.3 14.2 49.7			PCP	12	20	DD.	13	50							
FEE	3 28	19	C109	29.6					54		44		PPP	44 23					
	02			01.7			*pp	35	28	PCP	36	12							
MAR	03	10	C122	45.5			1	23	58		50	1.0							
MAF	05			34.3			1	18	43										
MAR	06	02	D124	55.7 55.0 40.6			PP	26	20 32 46	PP	23	56							
	07	17	E18				1	18	41					and the same of					
MAR	08	01	E32 D154	31 21.3				39	12	PCP	39	58	РРР	42 04					
	10	20	E08	46.7															
MAR	11 11 12	23	E46																
MAR	12	01 16 18	E24 C142 E10	40.2	52	13	PP	45	22										
MAR	14 17	04 16	152 D108	28.0			PKP	08	32	SKP	11	00	PKS	12 07					
MAR	18 19 20	08	DI21 DI53	55.0			*PP	54	06	PPP	58	28							
	20		C155				PP												
MAR MAR MAR	20 21	01	C130 C141 C140	51.5 46.1	32	27	1	32	34										
MAR	22	08	C121 C129	24.6															
MAR	23	00	C115 117	57.0 48.4			*PP	29	34										
	27	19	853 6010	19.2			*PP	06	32										
		02	D115 C129 C128 I45	32.3			PP	32	26										
APR	01	01		01.0	14	00	Ţ	18	36										
APR APR	01	13	E21 E05 C153	18															

TH	DY	HR	M	5	5/ M	SKS	PHASE	1 M		SUPP. PHASE	2 M C	SUF	P.	3	L	.0G	-			
PK	03	04	C154	20.8			pp	56	42		* * *			* *	* *	*	* *	* *	*	
PR	03	23	C104	26.8	05	50	1													
PR	04	06	D153	07.4			*PP													
PR	04	20	102	25.1																
PR		23			30	54	PG	30	24	SG 3	1 13									
PR PR				03 47.1						65.5										
PR	05			58.6																
PR	06	02	CIOO	07.4			*PP	00	19											
PR				00.5			*PP	38	09											
PR PR		03	132	09.2																
PR				50.5				54		PCP 5	7 16	0.0	0							
PR	08			39.5					O.L.		. 15		30	21						
PR	09	02	D146	59.4																
PR		02	E54	45																
PR PR				09.5									4.							
PR				00.1																
PR	10	10	DIAD	28.8																
PR	10			56.5																
PR				35.3			PP	52	12											
PR			E35	53.2			*PP	30	06											
PR				45.1			PP	10	41											
PR	12	23	E56	40																
PR		04	E46	06			SG													
							56	28	4.1											
PR			E45	57.7			2.0		22	2223										
PR	16	01	C136	34.4			*PP			PCP 1	56									
PR				32.3																
	10	11	143	22.8			*pp	43	32											
R				25.1																
R				40.6																
R		01	E19	47																
R	19	20	136	02.5																
R				24.2			*pp	45	34											
R			E08 E46																	
R	20		E13				1	13	25											
R	20	06	E55	30																
R	20	16	E38	49			1	38	54	1 39	12	DD	62	10						
R				28.4	53	24	PP	49	33	PPP 50				45						
R				43.4			*PP			PCP 37	27									
R	23		E22				PP			FCF 31	31									
R 2	23	01	0104	38.8	05	31	S*	05	46	T 00	10									
R a	23	07	E09	23			PKP2			T 09	14									
R	24	03	0146	28.0																
R			0123																	
R 2	25	11	100	05.2			545	0.0												
R 2	26	10	155	26.5			SKP	02	37											
R 2			155				*PP			PP 56	47									
	. 0	U.L	E35	24			PKP2	35	44											

# 196	* * 6	a a	* * P/	* * * PKP	TROMSO (1	RO) SEI	SMI *	5 5	TATION * * * SUPP	BULU • 2	ETII	N - 1966 * * * * * * SUPP. 3 PHASE M S	LOG	054	PAGE	4
						* * # 9			* * *			* * * * * *		KEM	CAND	
APR	28	11				p#	15	36	p <sub>G</sub>	15	46	SG 16 32				
APR				24.8		15-20	100	30.		12.2	40	30 10 32				
APR		04	41.70	24.0		1	66	20								
APR			CIAR	39.9		pp	50	10	ppp	50	47					
MAY				20.0		*PP				30	41					
(C) PA II	O.T.	1.0	01.30	20.00		*PP	31	00								
MAY	0.1	1.8	C141	51.5												
MAY		22		23		*PP	22	22								
MAY		14		45.7		455	33	33								
MAY				17.7												
MAY				24.7												
MAT	02	20	3.44.7	2401												
MAY	02	22	C110	04.8		20	20	00								
MAY				03.4		PP	2.0	.03								
MAY						141	77112	44720	1200			Contract Title 2015				
		00	0143	11.6			43		P.P.	44	13	PPP 44 34				
MAY		21	D155	28.5			56									
MAY	05	06	D148	13.7		1	48	18	1	48	58					
-	100	with the	0.000	4 44 124			-	a toront	and the same							
MAY				40.2			32		PCP	32	57					
MAY				16.8		1	57	19								
MAY				34.0												
MAY			0104	47.5												
MAY	11	12				5 G	40	38								
MAY				25.5		1	27	27								
MAY	11	14	136	29.0												
MAY	11	15	112	58.7									1.4			
MAY	11	21	149	24.6												
MAY	12	11														
MAY	13	13	118	45.6		1	18	53								
MAY	13	13		04.1												
MAY	13	14	C142	58.8												
MAY	14	17		46.8												
MAY		17				1	15	05								
			10.00													
MAY	14	20	D139	23.6		*pp	39	28								
MAY		23	C107	15.9			0.0	-								
MAY			E20													
MAY				00.6												
MAY				35.8												
-	-	1	200													
MAY	16	17	C137	48.9												
MAY			E09			*PP	10	05								
MAY				36.6		PCP	1.6	50					1.5			
MAY	18	07	144	05.6		*PP	44	14					1.0			
MAY			C138	33.6			38						1.3			
2.164.3	10		-150	22.0			0.0	40					1.00			
MAY	19	06	E06	36												
MAY				08.4		PCP	17	02					1.8			
MAY	19			32.3				02					1.0			
MAY	20	03	CIOS	10.9												
MAY		0.0	D127	37.8		74	27	45								
	20		0.61	21.00		1		4.3								
MAY	20	18	DITA	20.6												
MAY				22.0												
MAY				05.6		*PP	51	16					1.2			
MAY	23			24.2			21	14					1.2			
MAY	23		E57			*PP	57	17								
COM.	23	20	201	0.0		*PP	200	17								
MAY	24	00	E45	5.6												
MAY				55.6			43	21								
MAY						1	43	21								
MAY			E26	58.4		WW. 2	20									
MAY						PKS			Den	6.4	10					
MAT	52	13	0140	44.8		*PPKP	40	22	PKP2	41	12					
MAY	24	12				n.c	06		5.0	06	50					
MAY			E44	4.5		PP			56	00	50					
MAY				49.6												
MAY						PP	51	38								
MAY			E05													
mer	2.1	22	0117	38.3												

1966 MTH D:	* * * * * * * * * * * * * * * * * * *	TROMSO (TRO) SE: * * * * * * * * S/SKS SUPP M S PHASE * * * * * * *	ISMIC S * * * * • 1 • M S	TATION BULLETIN  * * * * * * *  SUPP. 2  PHASE M S  * * * * * *	- 1966 * * * * * * * * * * * * * * * * * * *	PAGE 5 * * * * * * *  REMARKS * * * * * *
MAY 28 MAY 28 MAY 29 MAY 30	00 DI15 17.4 02 DI00 06.2 014 CI02 44.3 03 DI22 07.6	PCF SKF	1 15 21 0 00 56 0 05 22		1.3	
MAY 30 MAY 31 JUN 01 JUN 02 JUN 02	07 DIS2 51 6	*PP	38 00		2.2	
JUN 02 JUN 02	08 E16 05		01 56		1.6	
JUN 03 JUN 03 JUN 03	16 142 11.7 14 DI11 04.1	1	43 07		1.8	
JUN 04 JUN 04 JUN 04 JUN 04 JUN 06		I I E *pp	19 41 23 48 43 47 58 27	PP 20 58	1.4	
JUN 06 JUN 06 JUN 06 JUN 07 JUN 07	05 DI10 06.6 07 CI53 57.8 20 DI59 53.1 03 E33 35	60 17 PCS				
70 AUL 80 AUL 90 AUL 90 AUL 90 AUL	19 20 C105 59.0 00 E24 05 02 E07 24	SKP *PP	26 18 06 07	PCP 07 07	2.1	
JUN 09 JUN 09 JUN 09 JUN 09 JUN 10	07 E02 21 07 I19 38.5 15 D149 25.6 22 I27 49.6 22 D133 07.0 04 D135 00.8	1	49 34		2+3 1+6	
JUN 10 JUN 10 JUN 10 JUN 10 JUN 11	14 DI18 46.6 19 DI20 57.9 22 E50 06	33 27 1	18 57 32 29	T 37 56	1.5	
JUN 11 JUN 11 JUN 11 JUN 12 JUN 12	10 C128 08.0 12 D111 27.7 18 D123 31.3 02 C109 54.9 05 C109 30.3				1 * 4 1 * 6	
JUN 12 JUN 13 JUN 13 JUN 13 JUN 13	20 D133 03.6 13 107 20.0 13 D118 21.2 13 E20 52	08 16 T 19 16 21 46 T 17 33	12 06 25 23			
JUN 13 JUN 13 JUN 14 JUN 14 JUN 15	14 148 38.4 18 C126 56.0 02 E52 38 21 D114 24.1 01 E18 26	*pp	27 33	*PPKP 27 59 S	KKS 36 11	
JUN 16 JUN 16 JUN 16	01 E51 35	SG I		Т 14 33		

* * * 1966 MTH DY	* *	P/PKP	5/	/SKS	(TRO) SEI	1	* *	* * * SUPP	* *	* *	SUP	P.	3	LOG	* * *	PAGE * * *	6
5 5 5	* *	* * * *					* *	* * *	* *	* *	* * *	*	* *		* * *	* * *	*
JUN 17 JUN 19		103 41.															
JUN 19	18				E	01	59										
JUN 19 JUN 20		DI38 34.			1	38	36										
JUN 20		D141 43.															
JUN 20 JUN 21		DIO1 55.															
JUN 21		DI57 50.			1	57	53										
JUN 21	23	116 09.	1														
JUN 22 JUN 22	00	DI08 51.			I	51	59										
JUN 22	11	DI06 47.	07	44	p*	06	57	5*	08	02	т	11	25				
JUN 22 JUN 22		147 36.5			*PP	47	48										
JUN 22 JUN 23	05	DI42 01.8		05		11	09			03				1.8			
JUN 23 JUN 23	05	C149 35.1 102 26.6			*pp	02	45										
JUN 24		D126 02.9				02	45										
JUN 24		C136 52.3															
JUN 24 JUN 25	01	140 40.0 CI57 35.6	)		1	57	40	PCP	57	50				1.4			
JUN 25	11	C159 53.8	1				1000			-							
JUN 25		136 59.3															
JUN 25 JUN 27		DI41 45.8 DI35 18.0			1	25	22							1.2			
JUN 27	10	CI50 21.4			PP	52	13	PPP									
JUN 27 JUN 27		C156 59.0 D159 01.2			1	57	04	PP	58	54							
JUN 27		108 30.8															
JUN 27		DI30 57.3															
JUN 27 JUN 27		C133 22.5 D140 05.3															
JUN 27		105 06.1															
JUN 27	15	C100 01.3	00	47	p*	00	11	S*	00	57	SG	01	08				
JUN 27 JUN 28		CI06 35.9			I	06	45	PP	10	04				1.6			
JUN 28	04				I	37	36										
JUN 28	16	CI58 55.1															
JUN 29		CI51 25.1			PCP												
JUN 29 JUN 29		DIO4 42.7			PCP	07	00										
JUN 29 JUN 29		C105 41.9 E01 46															
		201 40															
JUN 30	02	D108 50.8			PCP *PP	04	46										
JUN 30 JUN 30	12	140 24.0			*PP	40	36										
JUN 30	15 20	156 44.8			PG			SG	38	34							
JUN 30	20				1	43	01										
JUN 30 JUL 01	22	C126 03.2 E03 23					13	PCP	26	26	I	27	01	2.1			
JUL 01	06	CIO1 47.8		02			49	PP	04	29	PPP	06	18	1.4			
JUL 01	14				PG			SG									
JUL 01 JUL 01	17	E36 18 DI15 07.6															
JUL 01	20	CI29 54.0															
JUL 02 JUL 03	11	C105 02.0			PCP	32	41							1.3			
	1000	SERVICE SERVICE				0.00	1										

MTH *	DY	HR * *	* * C135	/PKP	5,	SKS	SUPP PHASE	1 M	* *	TATION BULLETIN - 1966 *********** SUPP. 2 SUPP. 3 PHASE M S PHASE M S *********		
JUL	04	03 12	C122	4 16.4 2 59.0 3 29.4		42	1	23	06		2.0	
JUL	04 04 05	22	E24	17.2 06 1 30.0					20		1.4	
	05	03	C141	14.2				90	36	P 90 41 P 90 44		
JUL JUL JUL	06	14 20	106 C133	55.8 54.8 08.8 43.0	49	18	5*	40	25			
JUL	07	23 22 03	D114	46.8 54 39.2					63			
JUL JUL JUL	08	07 14 08		44			1	23	16			
JUL JUL JUL	09	14		30 46 32.3								
JUL	10	02		01.7			PP	11	08			
JUL JUL JUL	10 11 12	22 21 03	E15 C138 D103	47.8 09.8	39	31	*pp			S* 39 40	1.8	
JUL JUL JUL	12	17	156	16.4 19.4 47.4	63	26		58				
JUL JUL JUL	13	00	C157 D106	02.2 53.4 07.6	0,5	23	PP				1.9	
JUL JUL JUL JUL	13 13 14	15	E14	42 32.8			1	04	42			
JUL	14	10	D108 147	03.2 37.6	48	30	s <sub>G</sub>	08 48				
JUL JUL JUL	15 15	04	130 C111	39.8 06.4 10.4 54.0	30	57		16		PCP 17 28	1.6	
JUL	15	07	139	18.8 33.6								
JUL JUL JUL JUL	17	02	C143 C159	04.6 07.6 39.0 53.4	61	13	*pp	E 0				
JUL	18	10	C109	23.6							1.2	
JUL JUL	19	03	136	03.3 44.1 26.6			I *PP					
JUL JUL JUL	21 21	04 1	D104	34.4 43.8 21.2			PP				1.2	
JUL	21	10	112	42.2			E	12	56 49		1.2	

MIH DY	HR	M	5	M	S	PHASE	M	S	PHASE	M	5	PHASE		M S	A/T	* * * *	RKS
* * *	* *	* *	* * *	* *	* *	* * * *	*	* *	* * *		* *			* * *			* * *
JUL 21 JUL 21	13	E48	12					46									
JUL 22	03	147	50.0			SKP	60		n n	40	28						
JUL 22	08		28			*PPKP	45	20		4,	20						
JUL 22	10		15.6			PCP	27	58									
22	0.2														3 3		
JUL 23 JUL 23	03	136	50.4			*pp	47	59							1.3		
JUL 23	14	D141	44.0			1	41	59	PCP	42	22				1.6		
JUL 23	20	DI21	04.4 44.0 54.2			*PP				42	23				1.0		
JUL 24		E08															
JUL 24	17	127	12 1														
JUL 25			13.1				20	44									
JUL 25			07.1				20	77									
JUL 25		E28				1	28	47									
JUL 26	12	C156	58.0														
26	12	***	12.0														
JUL 26 JUL 26			12.8														
JUL 26			52.1			1	58	54									
JUL 26 JUL 27	07		31.6												1.3		
JUL 27	09					1	04	23									
JUL 27	14	C156	40.8				56	44		5.7	06						
JUL 28			12.4				20	**	-1	21	Ub						
JUL 29	02					1	23	48									
JUL 29		D118															
JUL 29	08	129	03.8														
JUL 30	17	C152	03.8														
JUL 31			24.0														
JUL 31	04	156	04.6			1	56	28									
AUG 01			55.2												1.5		
AUG 01	19	C118	37.2			*pp	18	44	PCP	19	54	PP	20	24	1.8		
AUG 01	20	104	22.6														
AUG 01		D139				*PP	39	44	PCP	40	56				2.0		
AUG 01		D142								1173.54					1.7		
AUG 01		C111	38.8			Р	11	43	PCP	13	02	PP	13	28			
UG 01	21	144	26.0														
AUG 01	22	D139	36.8			1	9.8	42									
UG 02	05	150	18.4				,,,	-									
AUG 02		D127				1	27	44									
UG 03		D135															
UG 05	01	C111	52.6				12								1.6		
UG 05		C104	42.6			PP	05	47									
UG 05	07					E	21	39									
UG 05			50.2	-													
UG 06		D136	45.6	04	21												
00 06	02	0130	33.4														
UG 06	05	D111	58.0	13	12												
UG 06	05						57										
UG 06		D132	26.8			1	32	28			25						
UG 06	18	C143	27.6			E	40	57	Т	43	22				1 . 2		
00 00	14	-143	21.4												1.3		
UG 06		E05				T	10	26									
UG 06		113		14	49		18										
UG 06		D129					29								1.3		
UG 06		DI14 152		53	20		14		*PP								
00 00	22	152	31.4	33	39	1	52	43	1	51	53						
UG 07	02	D123	08.2	31	20	PP	25	18	PKPPKP	52	45						
UG 07	05	E31	59	32	58		36										
UG 07		C136					0.7										
UG 07		C100				SKP	02	59									
2001	1.74	-120	71.0														

# 196 MTH # AUG	* * 66 1 DY * *	# # # # # # # # # # # # # # # # # # #	P	* * * /PKP M S * * *	S.	/SKS	TRO) SEI * * * * SUPP. PHASE * * *	1 M	C S * *	TATION * * * SUPP PHASE * * *	BUL * *	LETI * *	N - 19 SUPHAS	966 * * * PP · 3 SE M * * *	* * * *	* * LOG A/T * *	* * *	PA *	GE * *	9 *
AUG	07 07 08 08	20	C12	7 59 8 49.6 8 00.2 5 12.4				48	08											
AUG	08 08 09 09	03	E2: D14	0 15.0					48											
AUG	10	05	120	0 23.8			SKP													
AUG	10 10 11	00	CII	9 17.6 3 20.6 0 09			рр			PCP	15	11								
AUG	11	15	116	31.4			PCP	56	41											
AUG	12 12 12	19 20 21	D126	46.8 51.6 51.0	54	27	PCP *PP									1.3				
AUG	15 15 15	02 02 10	D124 D157 C132	32.2 48.0 52.0 03.6			*PP PCP *PP	58 32	10	PCP						1.8				
AUG	16	02	C124	02.8	30	15	*pp		11	PCP		39	ppp	26 25	5	1 * 6				
AUG AUG AUG	16	03	C159	49.2 44.6 36 48.6		30								20 2		1.5				
AUG AUG AUG AUG	17 17 18	20 21 06	D106 D108 D147	42.2 57.6 21.2 54.8 36.8			*PP PCP *PP	48	32							1.8				
AUG	18	14	D147	19.8												2 + 4				
AUG AUG AUG	19	12	D157	41.6 11.2 40.0			PCP	28 57	45 37	1	28	49	PP	29 36		1.7				
AUG AUG AUG	19	14 08	C124 C138	59.2 29.2 49.2			PP									1.4				
AUG AUG	20	12	C105	20.7			PP I	05	23 47	PP	06	45	PCP	08 12		1.8				
AUG AUG AUG	21 21 21	01	E36 D113	12.7 35.1 55 10.7			РР	37	43											
AUG AUG AUG AUG AUG	22 22 22	14 16 18 21 22	E01	46.3 16 42.2 33.4	53	32	*PP E PKS	04	39											
AUG AUG AUG AUG AUG	23 23 26	14	C154 D133	17.4 22.2 41.0 08	55	15	*PPKP			SG	5.1	25								
								-	7.5	00	-1	23								

1966 MTH DY	HR	P/F M	KP S	S/S	KS S	SUPP. PHASE	1 M	S	SUPP	2 M	5	S	UPP.	M M	S	LOG A/T	REMARKS	
AUG 27		E09		* *	* *								* *	*				
AUG 27			06.5															
AUG 28																		
AUG 28		D148	55.3			PP	52	22								2.0		
AUG 28	10	E16	33			PP	20	34										
AUG 28		C150 D144																
AUG 28 AUG 29		139																
AUG 30		DI18																
AUG 30		C152																
	122	2225	20.75			100	-	12.11	-	-								
AUG 30		C129				*PP	29	52	pp	31	01							
AUG 30			05			PG	53	28	SG	54	0.4							
AUG 30		E49	47					20	00	-								
AUG 31		124																
				11 14 20		_												
AUG 31				18	48	Т	24	27										
AUG 31 SEP 01		E55		41	43	т.	47	20										
SEP 01			10.1				077.8	2.0										
SEP 01			28.4															
								-	-	1255	o Tax							
SEP 01		D129		-					ppp	30	49							
SEP 01		C119 127		21	13	T	27	57										
SEP 02		C104				*pp												
SEP 03		121																
		-	1000															
SEP 04		E34					35											
SEP 04		D148 E16		17	40	*PP	48	40										
SEP OF		E42			46													
SEP 04		E27				1	37	39										
			2															
SEP 05		C126				0.00												
SEP 05		C158				PCP	28	40								1-4		
SEP 06		143																
SEP 06		138																
SECTION AND	100						O END	Taken										
SEP 06		D103				-1	04	04										
SEP OF		105 D125				1	26	05										
SEP OF		C129			10	PP	32	58	SCS	39	32		55 4	6 (	4	2.0		
SEP OF	21	D136	23.1			PKS	39	38										
						ncn	06	20										
SEP OF		C105				PCP	00	30										
SEP OF		E52																
SEP 0		D152																
SEP 10	02	D137	03.2															
SEP 1	16	C105	20 1															
SEP 1		C150				1	50	24								2.6		
SEP 17		148				PKS												
SEP 12		C151				PCP	52	15	PP	54	29							
SEP 1	3 23	E57	55															
SEP 14	00	D157	00.0															
SEP 14						PKS	41	21										
SEP 15	5 17	122	13.3			1	22	19								1		
SEP 16	0.2	D158	02+4			PCP	58	59								1.6		
SEP 1	17	C120	22.0															
SEP 1	7 21	124	10.6															
SEP 1		0132														1.6		
SEP 1	3 14	C126	46.4					48		1								
SEP 1		C152				PP	54	07	PPP	54	45							
SEP 1	9 02	110	18.9															

				ROM	50 (	TRO1 SEI	SMI	C S	TATION BULLETIN	- 1966		-	P/	GE	11
1966		P/P	KP	5/	SKS	SUPP.	1		TATION BULLETIN  * * * * * * *  SUPP. 2°  PHASE M S  * * * * * * *	SUPP. 3	LOG			* *	*
MIH DY	# #	* * *	5 *	* *	* *	PHASE	M	S .	PHASE M S	PHASE M S	A/T	R	EMAR	KS	
SEP 19 SEP 20	-	114 D142				1	14	22					• •	* *	
SEP 20	23	107	55.4	0.8	51	1	12	33							
SEP 20 SEP 21	23	D147 127	51.8			т					1.3				
				2.0	.43		32	35							
SEP 23 SEP 23		C139													
SEP 23	18	E45	03												
SEP 24 SEP 25	01	D109 133	48.2			1	09	55			2.1				
SEP 25		C101					0.2	20							
SEP 25	06	D114	45.4			1	15	25			1.9				
SEP 25 SEP 25	20	E21 C129	05.2												
SEP 26		C155													
SEP 26	05	CIZO	55.6			PCP	21	38							
SEP 27	03	D132	46.9												
SEP 28	14	108 CI10	36.2		40	Ţ	10	54	PCP 11 12	PP 13 00					
SEP 29	17	153	01.8												
SEP 30 OCT 01	06	C107	17.0			pp	08	45							
OCT 02	04	C142	05.4			PCP I *PP	42	39			1.7				
OCT 02	07	D133	30.3	31	03	I *DD	33	32	SS 32 19						
OCT 02					-	200	2.1	11	22 25 14						
OCT 03	17	CI17 5	34.0												
OCT 05	05	144 ( E45 5	34.8												
OCT 06	13	158	9.6												
OCT 07	04	CI41 2	27.2												
OCT 07	16	DI13 5	8.8			SKP PP	17	05							
OCT 08	02	C104 3	33			PP	05	59							
OCT 08	04	105	2.0												
OCT 08	06	104 3	35.6	05	29										
OCT 08	19	C153 5	25.5												
OCT 09	06	C158 3	30.3												
OCT 11	21	E45 0	6.7			1	45	09	PKS 48 38						
OCT 12 OCT 12	00					E	20	52							
OCT 12	04	E29 1 E41 3	9												
OCT 12	07	142 3	1.1												
OCT 14	01	113 2	9.4												
	18	119 5				1	12	56							
OCT 15	07	C104 2	2.6			PP	05	03	PPP 05 18						
OCT 15		119 5													
OCT 15		DI10 1 DI14 2													
OCT 17	10	120 5 119 2	3.5	21	35	T	25	44							
OCT 17	21	C138 0 E55 5	8.8			SKP PP	59	38	1 60 18						
OCT 18	04 18	121 2	1.6			1	-	-	1 00 10						
		0144 5	3.8			PCP	56 45	21							

* * 1966 MTH * *	DY	HR	P/I	PKP S		* *	* * * *	*	* *	TATION BU * * * * SUPP. PHASE * * * *				*	* * * 3 M S	* * LOG A/T	 	AGE * *	*
OCT	10	04	C104	* * *			DD	06	00				* * *				 		*
OCT	19			15.4				0.0	00										
OCT		08	C113	12.4			PCP			PP 1	5 5	2	PPP	17	25				
OCT				15.0			PCP	36	02										
OCT	19	19	146	00.6															
OCT	19	20	D145	16.6															
OCT	20	01	102	19.8															
OCT	22			48.0			PCP			1922012		121				1.6			
OCT	22	00		26.8			1	56	34	*PP 5	6 4	2							
001		00	100																
OCT				56.8			*PP	19	08							1.9			
OCT				16.8	05	22													
OCT	23			54.4			PP	40	1.2	PPP 4	0 2					1.6			
OCT	25			43.6				40	12	555	0 3	9				1.8			
																510			
OCT		18		51.7															
OCT				28.5															
OCT				18.5			*PP	33	28	PP 3	6 4	1				1.8			
OCT				58.9				57			700	2				1.8			
ост	20	14	14.2	57.8															
NOV				56.6			PCP	11	20							2.5			
NOV				42.4				**	27							2.03			
NOV		03	147	52.8															
NOV	03	16	C135	50.2															
NOV	06	04	E00	13															
NOV			C121	25.9															
NOV		11	137	36.8															
NOV		14	E19																
NOV	09	15	E18	40															
NOV	10	03	D121	08.0															
NOV				56.0															
NOV		16		04.8			*PP	00								2 0			
NOV			E43					44								2.3			
NOV				53.8			1	03	56	1 0	4 0	6							
NOV		23	E15	03.0			PCP	0.3	22										
NOV	15			00.6				00	43										
NOV	15	16	129	02.4															
NOV	10	22	0125	E0 0															
NOV				59.0	10	09	т	13	5.8										
NOV				03.6		03	T	54	42										
NOV				28.0															
NOV	19	07	D153	23.6			PCP	53	45										
NOV	21	12	C129	25.8															
NOV	22	06	C138	52.2			PCP	39	42										
NOV				00.8															
NOV		07	E38																
				2.0															
NOV		19	E23																
NOV				05.4															
NOV		03	103	58.8															
NOV		13		31.8															
NOW	27	7.5	Dien	27.2		2.0													
NOV				37.2			1	55	46										
NOV		05			10	2.0	1	13	38										
NOV	29			50.9															
NOV	29	22	C136	04.9			1	36	58										

196 MTH	* * 6 1 DY	* *	* *	/PKP	S	/SKS	SUPP. PHASE	1	* *	SUP	. 2	* *	SUF	· *	* * *	* * * LOG A/T	* * * * * *	*
NOV	30	13	DIO	1 59.0	0	* * * 2 51	* * * *	06	* *		* *			*	* * 1	* * *	REMARKS * * * * *	
DEC	01	05	DII	8 17.8 5 35.8							10	03		26	42			
	01	19	CIO	6 19.0					22		.,	. 03		25	42			
	02			4 23.8					29									
	03	14	CI3	1 45.0			PP	34	27									
DEC	08	00	CIO	5 46.4			*pp	28	05	1	28	14	PCP	28	35			
DEC																		
DEC	09	16	CIS	7 03.6			PP	38	03									
DEC	10	17	DII	3 56.2			I PP	19	01	PPP	16	0.6	PCP					
DEC	11	19	C15	7 42.4							10	04	PCP	17	54	1.5		
DEC	11	20	E05	01			200											
DEC	11	20	C121	15.0			PCP											
DEC				48.8				28 54		PCP	30 54		PPP	30	58			
DEC	14	06						53			20,50							
DEC	14			04.2 56				55		PP	55	41	PPP	56	00			
DEC		02	DI18	34.6			*PP PCP	18	45	PCP	19	06				1.8		
DEC	16			08.2			FCF	02	36									
DEC		06	CIOI	46.0	03	44												
DEC	20	12	C140	34.2				04										
				23.0			PP	45	15									
DEC	20	15	E19 D141	03.4			1	41	29									
DEC	21	18	DI51 CI10	53.8				10										
DEC	21			15.2					20							2.0		
DEC	22			40.2														
DEC	24	06	E12	51			PP I	12	55	1	19	51						
DEC	25		E37	10.3														
DEC		01	C135	50.3														
DEC	27	01	D132	55.7			*PP	33	14	PCP	33	22						
DEC		21	134	51.9 39.6 04.0														
DEC				03.4														
DEC	30	04 1		33.4														
DEC	30		132	05.3			E	25	19									
DEC		00					E	37	30									
DEC :				48.6 57.6				42		PP .	43 3	39						
DEC :		19	E57	15			1											
		22	E33	21			1	34	16	1 :	34 2	22						

MTH DY	HR	P/I	PKP S	* * * * S/SKS M S	SUPP.	* 1 M	* *	* * * SUPP	* * • 2 M	* *	SUPP PHASE	. 3	5	LOG A/T	PAGE 1 * * * * * * * * * * * * * * * * * *
JAN 01 JAN 01 JAN 01 JAN 02 JAN 02	03 07 16 08	CI11 DI24 CI26	07.0 46.6 47.0 00.6		PCP	11 24	17 48	* * * *PPKP	* *	* *	• • •	• •	• •	* *	* * * * * * * * * 10,7N 92,8E 15,3S 173,6W 42,6N 147,5E 32,2N 22,7E 10,2S 28,5E
JAN 02 JAN 04 JAN 04 JAN 04 JAN 04	03 04 06	C153 144 C105	01.8 15.0 46.2 15.0 08.2		1	53 45 05		PP	06	34					30,6N 50,4E 20,3N 120,0E 68,0N 21,2E 38,6N 22,1E 23,4N 93,9E
JAN 04 JAN 05 JAN 05 JAN 05 JAN 05	00 00 06	C122 D150	42.8 45.4 17.2 29.4 45.4		1		51 49 34	PP	24	21					10.7N 62.5W 48.1N 102.8E 48.4N 103.1E 13.8N 120.7E 39.4N 72.9E
JAN 06 JAN 06 JAN 07 JAN 08 JAN 08	00	CI14 CI47	26.9 18.1 45.2 00.2		*PP	14	23 56								48.1N 102.9E 41.8N 102.9E 11.8N 142.7E 56.0N 162.9E 56.2N 162.7E
JAN 09 JAN 09 JAN 11 JAN 12 JAN 12	02 18 11 09	C121 D128	43.0 08.8 06.2 45.3		I I I	03 21 28	44 28 11 49		05 29		PCP	30	05		27.7N 54.5E 5:1N 77.6W 34:1N 45:7E NORDLAND 28:0N 54:5E
JAN 13 JAN 14 JAN 14 JAN 14 JAN 14	11	E07	36.1	25 41	epp epp E	14	48								23.8N 94.6E 39:1N 70.6E 52:1N 175:4E 67:6N 20:9E 44:6N 81:5E
JAN 15 JAN 15 JAN 17 JAN 17 JAN 17	20 01 12	C125	42.3 25.0 06.3 56		sbb 1 sbb	06	24								56+5N 153+2W 55+7N 110+7E 27+4S 63+3W 38+3N 142+1E 38+3N 142+1E
JAN 18 JAN 18 JAN 18 JAN 18 JAN 18	05 08 08	E30 C142 C128 D139 E57	27.5 11.7 12.3		I	42 28	31 16	PP	44	09	PCP	44	20	2.0	48.9N 154.9E 56.6N 120.8E 52.5N 168.3W 42.0N 142.4E 48.1N 102.9E
JAN 19 JAN 19 JAN 20 JAN 21 JAN 21	14 02 03	D105	25.9 28.9					PP PKP2			PCP	07	14		11,85 166,4E 52,4N 169,6W 48,0N 102,9E 49,8S 114,8W 30,7S 178,2W
JAN 22 JAN 22 JAN 24 JAN 24 JAN 24	03 04	D121			I	21 16									53.5N 165.3W 8:8N 93.7E 41.4N 141.9E 44.6N 142.2E 30.1N 104.1E
JAN 24 JAN 25 JAN 26 JAN 28 JAN 28	01 16 01	C157 E22 151 102	58 37.9		1	58	49 03 50	PP	59	32	PCP !	59	40		70+5N 13+5E 36+6N 71+6E 15+0N 92+8E 24+8N 121+8E 52+4N 169+5W
JAN 28 JAN 28 JAN 28	14	DI15 117 E22													52.3N 169.5W ALEUTIAN ISL
JAN 28 JAN 28	14	D133	16.7												52.4N 169.4W 52.5N 169.4W

1967	* *		* * * P/I	* * * PKP	TRO *	MSC * *	) (°	TRO)- S * * *	EI:	SM I *	c s	TATION * * * SUPP	BULI * *	LETI	N - 19 * * * SUP	67 *	* * *	* * LOG	* * * * REM.	PAGE 2	
MTH	DY	HR	M	5		M	5	PHAS	E	М	S	PHASE	. M	S	PHAS	E	M S	A/T	REM	ARKS	
JAN	28	14	DI51	12.9		*													52.4N	169.5W	
JAN	28	16	C141	13.7															52,3N	169.3W	
JAN																				169,4W	
JAN				24.5																169,5W 169,4W	
JAN				51.5																169,4W	
JAN		00	D117	08.3																14.3E	
JAN				38 49					1	22	16								26.5N IRAN		
JAN		08		16.7							21								26.5N	55 + 2E	
JAN			E26	54																44.2E	
JAN		12	F31	34					E	08	43								39.3N	H USSR	
JAN				43.2					I	15	49	PCP	16	25					26,2N	96,2E	
JAN	31	03	143	42.8															39.3N 26.2N 47.9N	102.8E	
JAN		17	C154	07.0																145+4E	
JAN FEB	31	19	E09	06				F	CP	10	34	I	14	04					26 + 5N	55+3E 55+3E	
FEB	01	09	E27	46					É	28	21	1	10	04						160 + 7E	
FEB	01	15	133	04.8				F												103+2E	
FEB	02	06	D144	52.4					PP	47	26	PKS PP PCP	48	33					57:95	25 + 7W	
FEB				42.8					I	45	50	PP	47	20					39+7N	75 + 5E 139 + 7E	
FEB				34.4					1	34	40	PCP	35	11						SEA	
FEB			E37								15								59+6N	13.3E	
FEB	04	18	CIOO	55.9															25 . 5N	142,7E	
FEB			E29																	176+1W	
			E35	35.9					1	4.1	38									152+8W 144+8E	
FEB				32.7					pp	02	49	PCP	03	37						157+2W	
FEB	08	17	D128	12.4								I PP							23 . 2N	93,9E	
FEB		14	E14	26		252.7743	V 1551		P	14	28	1	14	36	12222	3 70 5		-		20+3E	
FEB		15	C137	36.0	- 4	+8 2	2.2		I F	19	11	PP	41	10	*PPP	41	28	2.06	2 + 9N	74,9W	
FEB		05	D155	05.6					-	35.5	**								33 + ON	75 + 5E	
FEB				08.4					-										41 = 6N	86+2E	
FEB	10	08		22.7					T	40	55 28							1.7	51,7N	159 . 5F	
FEB	11	09	135	21.5					PP	37	09	PCP	37	34				-	52 + ON	106 . 2E	
FEB	11	15	D159	04.6															30 + 5N	50,7E	
FEB				00.2																3 × 4 E	
FEB		20		55.2		38 !	54													AND 148+4E	
FEB				22.4																147,4E	
FEB	13			24.8					P	20	34	1	20	48	1	21	36			34.1W	
FEB				32.4					CP	47	48									96+5E	
FEB		01	D150	53.0																AN ISL.	
FEB		01	C154	20.4															13+35 34+5N	171+3E 47+6F	
FEB				12.7					1	08	30	PCP	08	34					20 + 4N	47,6E 94,1E	
FEB				48.3					1	23	52	*PP	25	59					9+05	71,3W	
FEB				47					pp	22	22	PKS	2.0	42					4+4N	125+6E 175+2W	
FEB				08.6					PH	32	32	PKS	33	42						43,4W	
FEB				57.4																145 + OE	
FEB				14.6																83,5E	
FEB	19	21		32.2					0.0	22	9.3								52.4N	169.5W 113.1E	
FEB	19	23		40.4						32	1.1								0 = 05	41+1N	
FEB	20	15		13.6					1	27	19									75+3E	

* * * * 1967	* * * * * * P/PKP	TROMSO (TRO) :	EISMI	C S	TATION BULLETIN  * * * * * * * *  SUPP 2  PHASE M S  * * * * * * *	- 1967 * * * * * * *	* *	* * * * * * *
MTH DY H	R M S	M S PHA	E M	5	PHASE M S	PHASE M S	A/T	REMARKS
FEB 21 0	5 E30 11			* *			• •	
FEB 21 0	9 C124 42.8							14.1N 146.4E
	2 DI46 17.2 3 DI55 46.0							33.6N 75.3E
	8 E55 17							1.5N 127,2E
	8 D145 39.5	*PI	KP 46	06				19,5S 169,0E
	4 137 04.3							24,2N 122,5E
	9 DI01 03.9 0 DI50 19.5							NEVADA 26.1N 128.5E
	8 E15 37							26 11N 120 15E
	8 DI12 02.7					1		
	0 DI28 13.2							43,9N 139,1E
	1 DI34 03.1 1 CI51 58.9							00.05 123.9E
	4 CI04 43.9		PP 06	01				00:15 123:9E 49:8N 78:1E
	2 E19 28		I 19	42				02.9N 74.8W
	8 E11 43							
	1 E06 04 9 DI48 28.1		I 06		PP 06 45			RUMANIA
	5 125 19.4		CF 40	, ,,,				32,7N 141,7E 53,1N 159,9E
MAR 01 1	0 DI21 16.9		PP 21	27				28.3N 57.1E
MAR 01 2	2 0126 25.2			-				51,4N 179,3W
	3 C100 32.0 8 E03 23							00,3S 78,7W
	8 128 27.6							32:1N 55:8E 35:7N 139:9E
MAR 02 2								
	0 C157 10.4 3 D113 02.0		1 57	21			1.6	52.4N 160.5E 53.8N 160.5E
	5 C120 50.2		PP 21	26				21 +4N 121 +8E
	6 C135 02.2		* **			7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		18,5S 175,4W
MAR 04 1	8 C104 19.8		1 04	23	PP 05 19	LR 11 59		39.2N 24.6E
	9 C131 29.2							
	4 DI50 44.6		E 30				1.8	
	1 0141 04.0		E 30	17				TONGA ISLAND 03.7N 95.8E
MAR 07 0	4 DI53 15.6							22.0N 144.0E
MAR 07 1	6		E 15	21				NORDLAND
	6 D134 09.6		C 13	31				04+1N 125+6E
	5 E25 32							24.4N 142.8E
	2 C132 36.6 0 C141 56.0						1.9	15,65 167,6E 28,7N 138,7E
							1.43	20114 130112
	6 D138 50.4 4 E57 11		1 57					36,4N 70,7E 19,1N 95,8W
	7 DI06 48.4		1 37	22				28.4N 94.4E
	8 E55 04							29.2N 81.4E
MAR 12 0	3 CIO2 05.2		1 02	16				42.6N 143.0E
	4 C153 50.8		PP 54	00			1.7	53,7N 165,4W
	9 114 10.0							03,6N 126,5E
	9 CI31 21.6 1 CI47 16.8		PP 47	28	1 49 51			19.7N 38.9E 82.2N 39.7E
	7 C108 00.8		PP 47 PP 08	09			1.9	
MAR 14 0	7 C153 26.0				1 57 05			82.5N 36.2E
	8 E00 31		PP 53					36+3N 139+8E
MAR 19 0	4 DI11 42.0		1 11	47				45.4N 151.3E
	7 135 04.1 2 DIOO 49.7							51.9N 180.0E 45.8N 151.0E
PARTIE CONTRACTOR OF THE								
	9 DI40 40.5 3 DI41 36.1		1 41	27	*PP 41 47	PCP 42 17		45.6N 151.5E 45.6N 151.4E
	3 C148 55.3			41	-11 41	14. 46. 11		45,6N 151,4E
MAR 20 1	3 CI50 55.3		PP 51					45,6N 151,5E
MAR 20 1	4 DI02 09.7		1 02	11			1.8	45.6N 151.5K

	TROMSO (TRO) SEI	SMIC STA	ATION BULLETIN -	1967	PAGE 4
* * * * * * * * * * * * * * * * * * *	S/SKS SUPP.	1	SUPP. 2 S	* * * * * * * * * * * * * * * * * * *	* * * * * * *
MTH DY HR M S	M S PHASE	M S	PHASE M S PH	ASE M S A/T	REMARKS
MAR 20 14 C154 21.	7	* * * *		* * * * * * *	* * * * * * *
MAR 20 15 DI56 30.					45.4N 151.5E 45.6N 151.2E
MAR 20 17 DI21 38.					45.5N 151.4E
MAR 20 22 137 49.					35.8N 44.2E
MAR 21 18 DI23 59.					06+8N 73+0W
MAR 23 13 DI52 00.					45.8N 151.9E
MAR 24 09 DI12 47.5	*PP	14 56			06.05 112.35
MAR 24 19 E29 02					40,65 176,5E
MAR 25 06 DI04 44.8 MAR 25 22 DI34 58.8					KAZAKH USSR
					28.8N 60.3E
MAR 25 22 C158 02.4 MAR 27 09 E08 09		58 14	1 58 18		45.5N 151.4E
MAR 27 10 E20 39					38,4N 116,5E
MAR 30 02 121 56.7	,				16,55 168,1E
MAR 31 02 DI22 12.2					11.05 115.5E 52.1N 169.7W
MAR 31 03 E27 23					20.2N 38.6E
MAR 31 04 E27 01					63,1N 148,5W
MAR 31 07 107 01.4					12.8N 123.1E
MAR 31 09 DI25 16.3					51.8N 176.2E
MAR 31 20 DI23 58.0	):			1.7	15,45 167,5E
APR 01 06 C104 20.8	1	04 23 07 14	PCP 05 01		45.8N 151.8E
APR 01 06 C107 08.3	PCP **PP	07 14		1.9	46+3N 152+0E
APR 01 07 158 30.0 APR 01 12 133 37.8	PCP	59 08	1000 2001 202		45,9N 152,0E
APR 01 12 133 37.8 APR 01 14 DI10 39.0		33 48	1 34 02	1.7	45,7N 151,8E
				1.7	45,8N 151,7E
APR 01 17 DI25 49.0					45.9N 152.0E
APR 01 17 128 46.2					46.1N 151.9E
APR 01 17 DI31 13.0 APR 03 16 141 45.5					45,6N 151,9E
APR 03 16 141 45.5 APR 04 04 DI04 30.7		01 10			44.9N 10.6E
Appellation and the second		04 43		1.9	45 +5N 152 +2E
APR 04 09 DI16 23.5					33,4N 137,5E
APR 04 17 DI05 48.0 APR 05 02 CI46 35.2					35+4N 23+6E
APR 05 02 C146 35.2 APR 05 03 D100 18.4		46 49			20+0N 147+1E
APR 05 03 C102 23.2		00 24			20.0N 147.2E
					MARIANA ISL.
APR 05 19 E04 40					
APR 05 23 E52 24					31,15 178,2E
APR 06 06 CI28 26.4 APR 06 08					34.4N 139.0E
APR 06 12 134 23.6	E	16 01			
					20.1N 147.2E
APR 06 13 CI05 19.2	PP	06 52			30.1N 50.9E
APR 06 23 E42 58 APR 07 17 113 53.4					36.3N 140.5E
APR 07 17 113 53.4 APR 07 18 140 10.6					37,4N 36,1E
APR 07 19 C148 31.8					37+4N 36+2E
					47.0N 146.0E
APR 08 05 D153 17.2	SKP	55 43			19.95 178.6W
APR 08 10 APR 08 20 126 49.2	1	36 42			NORDLAND
APR 08 20 126 49.2 APR 09 01 123 30.0					5 . 7N 126 . 9E
APR 10 15 C121 14.9					4,0N 96,1E
					7.35 155.8E
APR 10 20 DI06 37.3		06 55	PCP 07 47		58+6N 154+3W
APR 11 12 E53 53					18+8N 62+7W
APR 12 04 E52 02		Carrier I			19+3N 63+6W
APR 12 05 DI03 48.4 APR 12 05 DI23 24.8		03 54	I 04 09	1 04 39	5+3N 96+5E
					5.5N 96.7E
APR 12 05 CI30 15.6					5.6N 96.7E
APR 12 05 DI54 59.0					13,8N 144,6E
APR 13 08 D137 50.4 APR 13 08 D146 40.0					5.5N 96.6E
APR 13 08 D146 40.0 APR 13 09		05 49	1 07 07		
and all wil	1	V5 49	I 07 06		

MTH	DY	HR	P/	PKP	5/ M	SKS	TRO) SEI * * * * SUPP. PHASE	* 1 M	* *	SUPP PHASE	* * • 2	* *	SUI	* *	* * *	LOG	* * * *	DEC
	* *	* *	* *	* * *	* *	* *	* * * #	*	* *	* * *	* *		* *		* * *	* *		
APR				58.4			*PP	05	09								27 · 3N	
APR		05		57.8													18.5N	
APR				00.9													17.5N	
APR				07.5			1	20	23								41.9N 46.4N	142,3E 153,3E
APR	17	06	FO2	02	03	0.5	E	0.7	0.5									
APR				20.8			1	08	48								73.8N 18.8N	
APR				44.8			PN			PP	16	08					49.7N	
APR				35							-						11.0N	
APR	21	21	D145	27.7	46	27	p*	45	39	T	50	23					JAN MA	
APR				53.3		54			58	T	11	45					JAN MA	YEN
APR				51.4		51			39								73.4N	
APR				50.2	30	50	1	34	49								JAN MA	
APR		14	0110	41.0			Ε	32	32	1	32	53					5 + 1 N	96 + 4E
APR	23	0.9	D137	09.0														
APR				56.2													36,3N 18,4N	
APR	23				53	41	T	57	48								JAN MA	
APR				42.2													13,5N	
APR	23	18	D126	24.0													52.0N	
APR				08.6			*PP	29	29								25.0N	94.7E
APR				09.0													37 +4N	72.7E
APR				50.0			*00			100	-	100					42,2N	
APR	100			52.0	56	3.1	*pp			1	38	48					43.3N	
			7.22			***			5.5								68,3N	10,55
APR		11	10-20		200	4.5		32									NORDLA	
APR		14		41.1	27	51	P*	26	55								72 + ON	
APR				57.4			1	67	0.6								41.7N 28.5N	
APR				13.2			PCP										51 +4N	
	-																	
APR				25.2				35	-								51,5N	178 + ZW
MAY				09.2			1	15	10	PP	16	04	PPP	16	23		39 • 7N	21.3E
MAY				08.8													39.6N 39.6N	
MAY	02	09	D109	10.0													36,5N	
MAY	03	0.5	E25	30														
MAY				16.6													42.4N 38.75	
MAY				55			1	47	59								39.7N	
MAY		04		28.6					A THE .									21.5E
MAY	04	05	D118	54.6													52.6N	169.1W
MAY				37.8			*PPKP	36	47								55,75	27.9E
MAY			E39														53.1N	
MAY			E35	38.4													39.8N	21.5E
MAY				14.0													39.8N	21.5F
MAY	OF			19.2			*00	1.0	20									
MAY			E32				*PP	1.9	28								29.2N	
MAY			E16														39,6N 59,3N	
MAY				46.4													10,55	
MAY	05	17	114	34.8			1	14	36								63.7N	
MAY	05	17	D148	41.2													14.15	166 • 8F
MAY				33.5				51									8+05	
YAM				07.6	0.5	13	1	04	0.9	P*	04	20	T	09	34		72.7N	3 . OE
MAY				26.0													52.7N	
																	55.65	20.5W
MAY				02.8			*PP	12	09								19.3N	
MAY				27.6													29 + 45	
MAY				47.2													42.9N 1	
				56.2													52.2N	

196	7		* *	* * *	TROMSO (1 * * * * \$/\$K\$	* * * SUPP	. 1	* *	* * * * *	* * 2	# # # # SHE	0 * * *	1.0	* * * * *	
MTH #	DY	HR # #	* *	S	M S	PHASE	M *	.5	PHASE	M S	PHAS	SE M	5 A/	T REM	ARK5
MAY	07	07	150	06.4											171.8E
				39.6			E 1:	5 4							173+8E
		18		59		D	c 11	7 20	SG	10.16					73 s 4 W
MAY	08	18	C155	43.8				47		10 10	l.		1.	00 4 314	14+6E 70+2E
				18.2											
MAY				55.0			1 0	25							178,4W 71,1E
MAY	09	06	125	04.3			1 2	06	*PP	25 18					149,0E
MAY		07					E 31	0.9							
1,147	0.3	08	E06	53										39+8N	21,5E
MAY			E07											78+9N	20 +8W
MAY				38.0			1 09	39						44,8N	140.6E
MAY				22.8											152+6W 152+3W
MAY	09		E10												143,3E
MAY	09	21	D143	02.0									1.	4 5+2N	127 55
MAY			E51												121+5E
MAY				46.4				49	I	58 51	PP	60 19		39,4N	
MAY		15		02.4		1	19	41	PP	24 00				20+35	68,5W
MAY				54.4											73,8E
MAY		15		02.0		S	3 3 5	40							73 + 1W
MAY	12			20.5				40						NORDLA 52+9N	167 + OW
MAY	12	17	158	47.3											10,4E
MAY	12	22	125	58.9										60-1N	152,6W
MAY				59.3											145 + 4E
MAY			E28											56+5N	
MAY			E06												126 + 8E 152 + 7W
WAY														30.311	125111
MAY				22.4											21.2E
MAY			E08												139,6E 73,9E
MAY			E55											13.7N	
MAY	14	15	E04	04										28,4N	43+9W
MAY				44.8										32+5N	141.4E
MAY			E49	50.4										32,4N	141.5E
MAY				17.4			1.5	54						34+6N	26 • 7E 96 • 6E
MAY	16	05	118	33.4										45+5N	
MAY	16	13	E10	32										10.00	00
MAY	16	16					15	13						13,5N 63,7N	
				08.0										32:4N	141+3E
				02.0										KURILE 60,8N	
														001011	14311W
MAY			E36	06										60.8N	
				11.6										38+7N 15+1S	
MAY				18.6										JAPAN	100116
MAY	17	16	D132	29.4										16:65	175+5E
				41.4		1	59	47						19:7N	38 + 7F
			E16											42:1N	143 » 7E
				26.2			17	21	PCP	17 47				41 + 9N	144+6E
				48=0		1	32	50						41.9N 41.9N	
MAY	10	11	Ear	6.7											
			E38	12.4		1	1.1	25		11 39				40 5 6 N 42 5 O N	
MAY	18	23	D150	12.8		1	50	28		11 39				31+1N	
				40 20 . 0										34,95	179 + OW
INPA :	1.7	10	102	2010										14:5N	40:3E

					TRON		TDO				20.00						
			* *		* *	* *	TRO) SEI	5M.	* *	TATION	BUL	LETIN	N - 1967			P	AGE 7
19	67		P	PKP	5/	SKS	SUPP PHASE	1		SUPP	. 2		SUPP.	3	1.06	* * * *	* * *
MI	H DY	HR		M 5	M	5	PHASE	М	S	PHASE	M	5	PHASE	MS	A/T	REMA	RKS
				5 37.4		* *	* * * *	*	* *	* * * *		* *	* * * *	* * *	* *	* * * *	* * *
MA	Y 20	03	DIO	3 33.4			1	03	3 38							52.5N	
	20			5 03.8												19.8N 39.2N	146 + OE
	Y 20			4 28												277211	12105
PERM	20	13	012	32.4												59,25	65 , 7W
	20	15	C11	03.6													
	20	21	D15	7 02.4											2.0	NEVADA 29+7N	
	20	23	CIII	46.4	20	57	PG I	20	18							66 + 4N	
	21	18	C15	7 43.8	67	51	*PP	42	42							35.6N	69.7E
					0.7	21	APP	26	31							1.05	101.5E
	1 22			05.4												15:05	167.2F
	22	18		39.6			E	25	58	SG	27	01				NORDI AI	
	23	01	D132	29.6													29,5E
MAY	23	02	D102	47.6			1	03	01						1.6	44.6N	
***		0.		20 0												44+6N	150,55
	23			31.6												52+4N	
MAY	22	12	103	20 4	04	41	T	0.9	10							3+15	
MAY	23	14	DIII	03.6			*PPKP		17							72,8N NEVADA	
MAY	23	19	C136	40.6			*PPKP	37	11							56+25	
MAY	23	21	0106	23.4													
	24			19												52+3N 1	
	24	16					PG	15	05	SG	15	33				50+0N 1 67+4N	
	24			50												12:15	
MA	24	22	D148	01.0												52+3N 1	160 + 2E
	25			35.0												46 + ON 1	42.05
	26				36	46										71=4N	
	26	15		14.0												JAN MAY	EN
	26	15	139		41	12										JAN MAY	
						-										71 × 2N	6.7W
MAY				06.4												45+5N	26 • 3F
MAY				48.0												25 . 7N 1	
MAY	27	01	C150	38.2			1	50	45	PP	50	0.9				39,9N	77 25
MAY	27	06	D137	05.6					3.5			.,				3919N	//+3E
MAY	27	07						24									
MAY	27	12	D150	48.8			4 pp	24	14							20.00	
MAY	27	17	C132	46.4			4pp	32	56							36+2N 51+9N 1	71+5E
MAY				08.4			1	14	12	PP .	15	49				36+1N	
0.61	21	20	0121	20.0												41+9N 1	42.3E
MAY		01	C141	40.4			1	41	53							52.1N 1	75.05
MAY				00.4												30+3N 1	
MAY				42.4			I PN SKP	15	44	PP 1	16	00				KAZAKH	
MAY			E29	06			SKP	50	47							23,85 1	
																16+6N 1	46 + 6E
MAY			E10													37.7N	73.4E
MAY			130 C158	29.4												1+9N	31.4E
MAY			128													11.9N 1	
MAY		13	2,50				E	31	00							19,25 1	76.3W
MAY	20	21	DIII	40 4													
		10	DI11 104	43.2			epp I									43,3N 1	
MAY	31	00		30.4			255		23							50:1N 1 34:2N	
MAY	31	05								I O	2	33				241211	20 1 GE
MAY	31	11	C150	14.2			1	50	32							12.5N 6	50.3W
MAY	31	13					1	18	50								
MAY	31	16	Marie	212			E									NORDLAND	
MAY	31	16	120	18.2												36 . 7N 7	70 + 8E
JUN	01	03	D145	59.4			1	46	08	PCS 5	0	A R				15.85 17	
				1000					-0	100 3	0 '	+0		1	* 8	53,7N 16	00 + 6W

1301		P/PKP	* * * *	SUPP.	1	* *	TATION BULL * * * * * SUPP. 2	* *	* * * *	3	100		PAGE 8
MIH D	HR	M 5	M S	PHASE	М	S	PHASE M	5	PHASE	M S	A/T	REM	ARKS
JUN 0 JUN 0 O NUL	10	125 29.0 145 59.7 113 58.0		E				•			• •	53.9N 36.9N	160,6E 29,2E 149,0E
JUN 0		135 46.4			35							41.0N	88.1E
JUN 02 JUN 02 JUN 02	06 DI	17 01.2		PCP E	17 43 21	21	1 17	42				43.6N 0.9N	28,4W
JUN 03		26 16 18 05.1		*PP	18	14							14,8E 151,2W
JUN 03 JUN 04 JUN 04 JUN 04	05 C1 06 D1	36 23.4 33 16.6 44 01.0 57 55.0	58 50	SG ∗PP	38 36	57 34					1.7	51.5N	159,3E 159,3E 159,2E
JUN 05		40 31	30 30										
JUN 05 JUN 05 JUN 07	11 DI 16 DI 16 I	20 47.0 48 11.0 01 28.6		I *PP	20 48	54 22					1 • 6	19,7N	159,1E
JUN 07		08 53.4											97.2E
JUN 07 JUN 07 JUN 08 JUN 08	22 I 07 DI	26 30 43 55.0 14 36.8		1			20.00					26 + 9N	155.4E 58.0E 125.8E
JUN 08		14 59.2		PG	52	16	SG 53	21				4+6N	127.1E
JUN 08		41 10.6 04 18.4		SKP	44	23						21,45	170,3E
JUN 08	16			PG	19	45	SG 20	34				66+4N	127,0E 14,2E
JUN 08		27 55										CRETE 26,6N	96 + OE
JUN 09	06 I	19 28.8 38 13.2		*PP	38	24						44,1N 51,1N	
JUN 09		35 01.6		*PP	35	19							126,0E
JUN 09	The state of the s	24 05.6 37 08.8											178,6W 125,7E
JUN 10 JUN 10		59 37 45 48.0									ozen dir.		169.1W
JUN 10	05 DI	57 41.9									1.7	41,35	73 + 6W 12 + 1W
JUN 10 JUN 10		40 23.2 16 53.0										49.5N	
JUN 10				SKP	19	19						19,35	178.2W
JUN 10		34 45.4 15 26.2										11.1N	
JUN 12		15 53.6		1	16	00						16.4N 16.6N	46.6W
JUN 12 JUN 12		20 36											100,6E
		18 56.8										39,2N	21,4E
JUN 12 JUN 12		30 46.8 32 39.6		1								3,15	100,6E
JUN 13		23 03.2		1	32	49						47,4N	
JUN 14	03 DI	55 27.8										3,05 45,3N	100 • 6E
JUN 14	05 1	25 17.6		1	25	32						15,25	
		00 36.4											
JUN 14 JUN 14		15 52.6 22 55.4		*PP	16	03						47.5N	
JUN 15		47 20.8										47.5N	
JUN 15		53 14.9										10.6N 9.1N	
JUN 16	06			PKP2								55,75	146.8E
JUN 17 JUN 17	05 13 DI	24 25.2		E	18	53	PKP 19 0	04	SKP 22	15		58.35	26,6W
JUN 18	16 E											23+1N 37+4N	
JUN 19		55 14.0										12,2N	

1967 MTH	DY	HR	P/I	* * * PKP S	\$	* * /SK: M	\$	* * SU	* * PP• SE	* 1 M	* * S	SUP	* P• E	* * 2 M	\$	* * S	UPP.	* * • 3 M	5	LOG A/T	* * *	* HARK	(S	*
NUL NUL NUL	19 19 20 20	14 17 02 05	144 D117 E19 117	18.6 35.2 45 40.8													•	•			20.61 52.71 52.91	N 16	38 • 41 66 • 91 66 • 91	EWW
JUN			D135																		52,81			
NOT NOT NOT NOT	20 20 20	07 07	C130 E45 C148 151 E56	35 37.6 13.2					1	48	49										52.71 52.91 52.81 52.91 25.31	N 16	66 • 91 67 • 11 67 • 21	W W W
NUL			D135 E03																		52.81			
JUN	21	15	E57	47					*PP	58	02										12.71	N 12	23.18	E
NUL			C103						*PP	13	14										64.81			
JUN		18		23.2					*PP	21	28										64+81			
JUN		18	133 C128	43.2					SKP	31	20										23,55			
JUN		20 15	E28 146	29.2					*PP	46	43										25 • 25			
NUL NUL NUL	23 23	22 05 10 12	E18 E13	03	0	7 3	9		PG	07	06	5	* 0	7 4	19		SG (	07	59		67.61 5.85 40.81 64.81	5 13 N 3	30,58	E
JUN		12							I	15	06													
NUC NUC NUC NUC	23 23 24	18 21 13	C156 C157 C146 C113	39.2					I	49	22										21,35 36,6 19,2 21,4 12,5	S 16	71.18 57.78 79.38	E
JUN			E16 D104																		11,41			
JUN	25	23	D130 C138	56.0					*PP	31	05										12,41	1 14	+1 . 8E	Ε
JUN			D142						1	43	03									1.5	51.31	18	30.00	4
AUL AUL AUL AUL	28 28 28	01 14 16	E18 D120 E53 D103	05.6 48							56 46	PKF	2 5	4 1	5						23,6M 46,0M 47,0S NORDL KAZAK	1 15 5 16	1.5E	E
JUN			C103																		51.71			
JUN	29	16	C129 150	03.6																	7,25	12	28,68	
JUN		15	E16	36					Ε	49	42										70,41		2,50	¥:
JUN			C139	42.4																	52.01			
JUL		06	C145	39.2					SG												66,9N 28,7N			
JUL			DI41 109						*PP	41	54										0,85 41,0N			
JUL	01	21	D131	53.6					*PP	32	05										54.01	1 16	1.00	v
JUL	01	23	DI19 CI19	44.4					PCP												54,4N			
	02	02	131 D145	14.4																	54.6N 54.5N	1 15	8.04	N.
			DI11																		45,71			
JUL	02	07	C115 D149	42.0					1	15	46										8.71	1 9	3,86	Ē
JUL	02	08	E41	15											^						33.21	1 7	75 , 68	E
JUL	02	10	C118	50.8					1	18	55	*P	P 1	9 0	0						54.71	15	7.7%	

				TATION BULLETIN -		PAGE 10
1967 MTH D	P/PKP	S/SKS SUPP.	1	SUPP 2 PHASE M S PI	SUPP. 3 LOG	
	* * * * * *	M S PHASE	M S	PHASE M S PH	HASE M S A/T	REMARKS
JUL 02	14 0121 26.0	*PP	21 34			8,5N 93,8E
JUL 02						8,5N 93,8E
JUL 02	20 D145 16.0					31,2N 130,1E
JUL 02	22 E12 44					23.0N 142.7E
JUL 03						44,2N 19,2E
JUL 03	03 DIO8 30.0					54.7N 157.7W
JUL 03						12,3N 143,9E
JUL 03						43.6N 147.0E 54.6N 157.7W
JUL 03	09 CI49 16.4		0492102321			24,00 T21,1M
JUL 03		*PP	49 25			54.6N 158.0W
JUL 04						7.55 13.4W
JUL 04			35 59			38.15 73.4W
	A TENENT TOTAL					
JUL 04 JUL 05			52 43			43.2N 142.5E
JUL 05			12 53			36.8N 21.3E
JUL 05	09 DI12 26.6		16 33			54.5N 157.9W 25.6N 126.0E
JUL 05	11	E	01 52	1 02 28		2310N 12010E
JUL 05	13 E53 58					20 44 120 05
JUL 05 JUL 06	16 E56 09					30.4N 138.0E 36.9N 21.3E
JUL 06	05 DI14 48.0 08 E28 27	*PP	15 00			62,4N 147,4W
JUL 06	13 DI52 15.8		52 17	1 52 21		36.7N 21.4E 52.6N 168.2W
JUL 06	13 DI56 44.6					
JUL 06	16 CI24 14.2					52,6N 168,1W
JUL 06	17	1	48 18			52,8N 168,1W NORDLAND
JUL 06	18 143 17.4 19 108 41.4	PCP	43 36			18.QN 61.QW
						13,4N 50,8E
JUL 06	19 DI31 07.8					8.1N 38.5E
JUL 07	23 CI26 33.4 01 I20 00.6					32.5N 130.9F
JUL 07	10 E00 15					13,5N 50,8E 20,3S 177,7W
JUL 07	13 DI41 05.6					8,7N 126,1E
JUL 07	23 106 24.4					
JUL 07	23 158 15.6					27.8N 92.2E 35.5N 87.8E
JUL 08	00 DI52 49.6 01 CI17 33.6					38.2N 141.7E
JUL 08	06 E41 50	*PPKP	42 04			15,45 167,5E
JUL 08	13 0124 44 2					16:35 166:8E
JUL 08	12 DI36 46.2 13 DI31 37.2	37 38				
JUL 08	19 E29 02	*pp	29 20			19,95 178,1W 37,7N 143,7E
JUL 09	03 E10 57 03 DI19 00.4					
						44.0N 144.7E
JUL 09 JUL 09	05 I46 05.1 20 CI50 22.3					55.2N 155.2W
JUL 09	21 141 38.1					19.2N 46.2W
JUL 10	03 145 15.9					19.2N 46.0W 59.8N 161.1E
JUL 10	06 DI11 34.3					52.6N 168.2W
JUL 10	06 DI22 03.1					
JUL 10	06 147 32.7					51.6N 159.4E 17.6S 178.8W
JUL 10 JUL 10	10 DI36 27.9 10 I58 16.7					21,65 179,4W
JUL 10	12 114 01.6					52.7N 168.2W
JUL 10	19 DI31 09.8		22 13000			5.95 113.1E
	19 154 39.0	1	31 26			4.8N 127.1E
JUL 11	00 CI25 46.2					26.1N 44.9W
	01 E32 48 04 E35 27					IRAN
						7.05 155.8E

196	* *		* *				RO) SEI * * * * SUPP. PHASE * * * *										* * LOG		PAGE 11 * * * *
мтн	DY	HR		5	М	5	PHASE	M	5	PHASE	M	5	PHAS	E	M :	S	A/T	REM	ARKS
1111	11	13	E 25	53			* * * *	*	* *	* * * *					* *	*	* *	* * *	* * * *
JUL	11	16	E32	23				10	20		10	0.0							173,6E
JUL	12	10	C141	38.0			1	41	52	SG	19	02						NORDL	161,1W
JUL	12	19		0.00			i	30	31										
JUL	12	21	E13	14			E 1 1	13	21									5 + 6 N	82,6W
				19.4															
			15.5				1	04	31									35,5N 5,3S	35 . 1E
				18.7														20,45	169,3E
				52 28.7															19,5E
																		18.3N	146.3E
JUL	14	11	153	49.4														35.2N	46,4E
1111	14	16	103	04.4				17	26									54 + ON	164,3W
JUL	14	18	E48	52				11	20									NORDL	AND
JUL	15	03	D133	42.8			I PP	34	58									49,8N	46,4E 164,3W AND 66,8E 78,1E 176,8E
																			176.8E 126.3E 9.1E 132.6E 169.3W
JUL	15	14	D153	28.6			, I	53	35	*PP	53	38						51 + 5N	176+8E
JUL	15	15	C117	42.6	18	43		-				30						74 + ON	9.1F
JUL	16	13	E48	11			1	48	19	I	49	34						0,85	132,6E
JUL	17	11	C138	14.7														51 +1N	169,3W
JUL	17	12	D146	43.5			*PP	46	5.5										
JUL	17	14	102	53.9			*PP		-									51.4N	142+1E 169+5W
JUL	18																		158 . ZW
JUL		17	D109	44.8			*PP	09	58									40 . IN	142+4E
JUL	14	09	£12	49														37,9N	29.0E
			E59															20,35	178 + 2W
JUL	19	16	124	59.6														38+3N	21.2E
JUL	19	17	E36	13				1.0	-									36+5N	70.3E
JUL	20	06	100	58.6			Ε	10	28									36+5N NORDLA	AND
	-		100	20.0														1,25	126.7E
JUL	20	13	129	56.8			E	30	56									28+15	66,9W
JUL	20	14	D136	07.6			PCP	36	57	2								51,4N	178,3E
JUL	20	19	109	24.0			1	49	30	1	49	40	PP	53	13			7+7N	134,9E
JUL	20	23	C131	06.0			PCP I SKP	33	42									26,55	19.8E
									13,000										
JUL			E15	27.6														4.85	101,4E
JUL				28			1	1.7	22										170 00
JUL				12.4				+ "	33									33,55	179.0W
JUL	22	11	103	41.6														33+5S 33+5S 51+4N	1,3E
arm:	22	17	103	01.0															
				12.4														40.7N	30 , 8E
JUL	22			15.0														TURKEY	30 , TE
JUL		19					E	53	56										30,9E
JUL	22	20	141	44.6														40+6N	30.4E
JUL	22	23					1	48	13									40.6N	30 • 7E
JUL	23	03	127	33.2					25.000									15.75	
JUL	24	18	105	57.6															
JUL	25	80	143	14.0														41.9N	24+6E
JUL	23	12	130	2797			1	28	28									45+8N	26+5E
JUL	25	13	CIOS	56.9														28,9N	54+5E
JUL	25	15	E34	25															143.1E
JUL	26	02	112	26.9 32															170
JUL	26	09	119	57.3			ī	20	03									31.8S 8.6N	
																		01014	1.037M
			E22				925	200	SE									40 + 3N	
JUL	26	10	D150	01.9 27.6	33 0	1	T	50	35	PP .	60	27						73 + 4N	
JUL	26	19	111	25.2			1.40	24	30	PP	00	31						39.5N 17.4S	174.3W
				04.4		0												66+5N	
																		No. of Particular Part	ALC: NO.

196	* *	4 *	* *	* * * PKP	TROM * * 5/	SKS	RO1 SEI	SMI	C S	TATION	BUL * *	LETI	N - 1967 * * * * SUPP. PHASE	* * *	LOG		PAGE 12	
-	-						FHASE			* * *			PHASE	M 5	A/I	REM	ARKS	
JUL	27	0.0	E13	14												19.9N	109+4W	
JUL	27	01	148	40.4												31.7N	50.8E	
JUL	27	05	E21	43													20.7W	
JUL	27	21	147	14.6												HINDU	KUSH	
JUL	28	0.5	0150	14.0														
JUL	28	0.9	0154	24.2												24.70	SALE SALE	
JUL				56.8			SKP	46	28							42 10N	145+4E 178+5W 20+5W 94+0E	
				55			0.161									63.DN	110428	
JUL	28	17	D140	06.8												2.1N	98 • OF	
JUL	28	18	D150	56.0												15,25	178+5W	
																	The Charles and	
JUL			E43															
JUL				41.2												23+9N	125:4E	
	29			35.6			*pp	0007								54 + DN	20.6M	
JUL	29			04.0				U.	40							42 v 7 N	125:4E 20:6W 146:7E 145:5E	
		190.95														40+0N	145+55	
JUL JUL JUL	29	10	136	39.2												6+8N	73 + OW	
JUL	30			03.9												10.6N	67+3W	
JUL	30	01	137	07.6												10+6N 40+7N	30+4E	
JUL		03	149	24.0												22+0N	143+8E	
JUL	30	14	E22	36														
JUL	30	17	E42	43														
JUL		19	104	49.6												17.85	178+8W	
JUL				25.2												40.7N	121+2E	
JUL	30	23	D113	17.6													153 +1E	
JUL	31	07	E18	11													27.6E	
AUG	0.1	14.74																
AUG	01			07.2													147+9E	
AUG				31.6			1	E /-	20								53,3E	
AUG		09	D155	34.0				34	30								146+4E	
AUG		11	D108	50.0			Ť	16	34								179 + 1W 8 + 0W	
				15.8												1.4.3.4.34	0,00	
AUG		14	C103	15.8			*PP									30.9N	53.5E	
AUG					10	09	T	16	34							71 + 2N 40 + 7N	8 + 5 W	
AUG	02	15	E39	16.8	20	0.5												
AUG				14.0												71 • 2N		
400	02	10	D149	14.0	30	24										71,2N	8 • 4 W	
AUG	02	18	C130	30.0												4,65	103.2F	
AUG	03	09	E05	01												4,00	100166	
AUG	03	11	2000	22			1 P*	42	48									
AUG	03	14	D143	32.6	44	33	P*	43	44	T	49	05				74.6N		
AUG	03	21	147	14.9			1	47	28							53 . ON	166 • 7W	
AUG	03	23	126	35.6			*pp	27	20							53.8N	170-04	
AUG		0.7	D104	43.6			100		-							KAZAKI		
AUG				09.0												34.8N	70.1E	
AUG		15	100	12.7												42.9N	17.7E	
AUG	04	21	E06	57														
AUG	0.5	17.1	DIEA	57.2				24										
AUG				35.2			1	30	09							43 + 3N		
AUG		10		33.6			F	25	13	1	25	42				43+3N	147.6E	
AUG				46.4			5	23	13	1	25	42				38 • ON	74.55	
AUG	06			41.2												34,55		
																1000		
AUG			E48													IRAN		
AUG		22	155	56.2												52.7N		
AUG	07	18		31.6			je.	0.7	52	1	0.0	2.5				36.5N	71,2E	
AUG	09	10					E	55	55	1	56	26						
		000						55	20	1	-0	2.0						
AUG	10	10					SG	04	39							NORDLA	NO	
AUG	10	11	C131	26.2			*PP	31	38	PCP	32	0.2				45.4N	150.3E	
AUG	11	19	0106	28.6			*PP	06	58						1.5	22.1%	144 + OE	
AUG	12	0.0	0141	11.4			*PP *PP *PP	41	24	PCP	41	38			1.7	38.5N	141.9E	
400	16	44	~1.2g	45.44			*PPKP	59	29	pp	61	19	SKP 62	04		24.75	177.5W	

* * * * * * # # 1967 P/			SUPP. 2	- 1967 SUPP- 3 LOG PHASE M S A/T	* 4 4 GE 13
MTH DY HR M	S M S	PHASE M S	PHASE M S	PHASE M S A/T	REMARKS
AUG 12 10 D150 AUG 12 12 149 AUG 12 13 AUG 12 14 E08	06.6 49.2	1 50 19 1 49 59 1 45 5	14004.01		53.7N 160.4E 14.9S 166.7E
AUG 12 14 E08 AUG 12 23 C102	30 25•6	*PP 02 52			37.0N 71.4E
AUG 13 15 112	11-4 13 00				68.0N 10.0E
AUG 13 20 C117 AUG 13 22 D113 AUG 13 23 C156 AUG 14 06 D153	00.4 25 29 43.8 18.0 58.5	*PP 18 23 1 13 58 *PP 56 26	PP 19 29		35,3N 135,3E 43,2N 0.5W 7,0S 12.6W 5,4N 96.6E
AUG 14 12 156	11.4				17.3N 94.6W
AUG 14 20 115 AUG 15 04 C142	32.2	I 16 00	)		40.7N 30.5E 36.5N 19.4E
AUG 15 07	30.2	I 13 00			38.9N 15.0E
AUG 15 07 C148	14.7	I 16 00			36+3N 70+2E
AUG 15 09 D130	41-4	1 30 44	*PP 30 52		31.1N 93.7E
AUG 15 09 D130 AUG 15 15 D145	43.2	PCP 46 4:	30 32		44,8N 132,4E
AUG 15 20 D121	14-4				27.1N 140.5E
AUG 16 18 101 AUG 16 19 C131	51.6	1 31 56			56+25 26+9W 0+9N 98+9E
AUG 16 19 C131	51.6 35.0	1 31 30	2		U19N 9019E
AUG 17 00 CI16	27.8				51.9N 160.0E
AUG 17 14 E42	19	66 21 2			39.4N 142.3E NORDLAND
AUG 17 22 C151	09.6	50 21 2	•		59 4N 151 4W
AUG 17 18 AUG 17 22 C151 AUG 18 03 E46	47	PCP 47 0	7		27 8N 127 97E
AUG 18 03 E50					
AUG 18 05 E59	16	*PP 59 24			61+5N 151+0W
AUG 18 09 E49	27				5.7N 125.8E
AUG 19 01 AUG 19 07 DI05	42.8 06 02	1 42 3	7		36.9N 71.5E 70.7N 15.8E
400 19 01 0103	42.0 00 02				101111 10102
AUG 19 07 DI15	33.2 15 53				70.7N 15.8E
AUG 19 12 C124	43.6	1 24 4	1 24 57		40.8N 143.5E
AUG 19 12 C124 AUG 19 15 D140 AUG 19 16 D100	32.4	PKKP 10 45		1.6	12:45 166:6E
AUG 19 16 C129	49.6 31 20	AMERICAN PROPERTY.			
AUG 19 23 E41	4.6				32.5N 106.5E
AUG 20 00 E16	49	PCP 17 5			58.1N 156.5W
AUG 20 02 E09	27	1 09 32	PP 10 41	PPP 11 25	45.3N 80.1E
AUG 20 00 E16 AUG 20 02 E09 AUG 20 15 121 AUG 20 17 D128	59.6	1 28 41		PPP 11 25	25,25 69,0W
					31114 33115
AUG 21 07 C145	18.2	I 45 20 I 48 50			3.6N 95.8E
AUG 21 13 C145	06.8 47 47	1 48 56			57.0N 4.9E 60.85 24.6W
AUG 22 13 C121 AUG 22 13 136	10.0				60+95 23+2W
AUG 22 23 DI19					56.2N 112.6E
AUG 24 01 126	02.9				35.3N 88.0F
AUG 24 01 120	24.2	1 31 2	1 31 33		43.5N 147.5E
AUG 24 05 D148	01.8				
AUG 24 10 151					14,95 166,9E
AUG 24 10 E56	12				17.15 40.3E
AUG 24 13 C152	43.2	1 52 4			22:35 178:1W
AUG 24 17 126		*PP 26 51			18.5N 145.5E
AUG 24 23 AUG 24 23 C126	57.6	56 14 30			65.0N 21.0E 10.55 27.3E
AUG 24 23 C126 AUG 25 12 134					35.4N 49.1E
					51 - 75 177 IF
AUG 25 15 113 AUG 25 16 116					51.7N 177.2E 66.4N 15.2E
AUG 25 17 127	38.4				54.0N 164.8W
AUG 25 21 130					12-28 160-16
AUG 25 23 C107	11.6				12.2N 140.8E

# # # 1967 MTH D: # # 4	HR + + + + + + + + + + + + + + + + + + +	* * P/ M * *	* * * * PKP 1 S * * *	TRO * S	MSO (	TRO1 * * SU PHA * *	SEI JPP•	SMI * 1 M	C S * *						*	LOG A/T	* * * RI	P EMA EMA	AGE 1 * * RKS * *	4 *
AUG 26 AUG 26 AUG 26	01 01 02	D106	35.2 14.0 42.8 02.8				*PP	06	50 20 12	,	PP 5	3				1.9	12.	N S	140.7	E
AUG 26 AUG 26 AUG 26 AUG 26	03 12 18 21	E37 E38 D154	52 17 57 27•9				*pp	54	41								12.1 12.2 12.1 15.4 55.3	NENN	140,61 140,61 140,71 140,71 140,71 172,71	
AUG 27 AUG 27 AUG 27 AUG 27 AUG 27	04 11 13 13	D157 D122 C121 C144	48.7 41.5 21.7 05.1 46.1				1	21		*P	P 2	2 5		24			36 + 3 23 + 1 12 + 3	N N	168,7W 71:1E 94,2E 86,2W	
AUG 27 AUG 27 AUG 27 AUG 28 AUG 28	17	E18	21 30 <sub>e</sub> 1				*PP	30	31								12:5 12:3 10:0	N 1 N 1	26 + 1E 23 + 5E 40 + 6E 71 + 2W 29 + 9W	
AUG 28 AUG 28 AUG 29 AUG 29	21 07 21	DI14 E23 I41 I54	06 20.4 19 32.0 29.6														31+5	N N A S	26+8E 6+1W 6+1W EA AN	
AUG 30 AUG 30 AUG 30 AUG 30 AUG 30	02 04 05 05 08	107	58 58.8 36.8 41.6 26.0				1	32	02	Р	P 34	4 0	6				31 + 71	N 1	40.0E 00.3E 00.3E	
AUG 30 AUG 30 AUG 30 AUG 30 AUG 30	15	E14 143	42.8 50 33.8 59						56									N 1	00,3E 78,6W	
	17						SG	49	00								NORDI	ANI	0	
AUG 30 AUG 31 AUG 31 AUG 31	23 ( 13 15 (	113 C129 E50 C128 C111	36.0 36 43.6				I	12	19								45 + 3A 18 + 3A 18 + 7A	1 1	21+3E 45+3E	
SEP 01 SEP 01 SEP 01 SEP 02	09	101 114 151 E43	09.2				1	51	53	1	52	01					6:9N 18:9S 44:9N	16	73 + OW 59 + 4E 47 + OE	
SEP 02	03	148	25.4	50	15		1	48	38								33 . 75 71 . 6N	17	8 + 2W	
SEP 02 SEP 03 SEP 03 SEP 04	08 11 21	156 E09 E39 E21 110	29 41 28							PP SKP	25	46					29+15 36+8N 60+5N 10+6S 31+4S	5	5+1E	
SEP 04 SEP 05 SEP 05 SEP 06 SEP 06	19 C 08 17 01 C 03	139 (E37 4	09.2 41 50.6				SG 4	44 !	51								54,8N 36,7N NORDL 24,1N	15 2 AND 9	9:1E 9:3E	
SEP 06 SEP 06 SEP 06 SEP 07 SEP 07	05 C 07 D 17 C 02 D	106 1 141 3 134 3 111 3	14.4 30.0 31.0				PP 4	4 3	15	PCP	41	48			1.	5	35 + ON 14 + 7N 52 + 6N 31 + 3N 2 + 7N	2 9 16 11	3 + 0 E 3 + 6 E 8 + 5 W 4 + 4 W	

* * *		* *	* * * PKP	TROM * *	SO (1	TRO) SEI * * * * SUPP. PHASE * * * *	SMI *	C S	TATION * * * SUPP	BUL * *	LETII	N - 196 * * * SUPP	7 * * • 3		* *		PAGE 15
MIH DY	HR	M	5	M	5	PHASE	М	5	PHASE	M	S	PHASE	М	S	A/T	REM	ARKS
CED OF	00	* *	* * *	* *	* *	* * * *	*	* *	* * *	* *	* *		* *	* *	* *	* * *	* * * *
SEP O7	11	C126	45 0			1	23	44	* DOV D	20						30,55	177.6W
SEP 07	14	D119	53.6			* * * *	20	23	*PPKP	28	31					31,35	179,6E
SEP 08			58.0													W. W. F 2011	144.0E 71.5E
SEP 08		E10														36.9N 40.7N	
																40.714	2012E
SEP 08	05	E31	31													38 . 4N	70.5E
SEP 08	12					1	50	42									126.3E
SEP 08	22	D103	14.2 33.6 00.6														179.6W
SEP 08	22	C150	33.6			1	50	43									140.8E
SEP 09	08	D150	00.6													18 + ON	145.5E
SEP 09	00	****	13.8														
SEP 09			30.8			PKP	24		00	25	16	DVVD					
SEP 09			51.6			FKF	24	10	PP	25	15	PKKP	35	15		ARGEN	IINA
SEP 09						PKP2	12	43									140.7E 136.0W
SEP 09			36.2														162.7W
																247011	102111
SEP 10						PG I I	35	27	I	35	32	SG	35	39			
SEP 10	23					1	05	28									
SEP 11	03					1	03	53									
SEP 11			26														169,7E
SEP 11	06	E20	59													27 .5N	66 + 4E
SEP 11	13	E01	51			1	01	**									
SEP 11			25.8	46	0.1		01	20								45 . ON	CC-17-77-77
SEP 12		D153		.,,	0.1											71 + 2N	6.1W 149.8E
SEP 12		0152															21+2E
SEP 13		C132														229214	
SEP 13		0150				1	51	05								52+7N	172,5E
SEP 13																	27.4W
SEP 14																PAMIR	
SEP 14 SEP 14		E39															21.9E
3EP 14	14	158	07.0													28 + 4N	57.1E
SEP 14	15	D153	55-0													10.00	147.55
SEP 14						56	1.8	52								NORDLA	167 + 5E
SEP 15			30.6			SG +PP	39	45									140.4E
SEP 15	08	D114	56.2														139,6E
SEP 15	10	C142	44.6			#PP	42	50	PCP	43	28						91.8E
SEP 16		D108						na o									120,7E
SEP 16 SEP 16		C130				PCP	13	24									77,8E
SEP 16																	167+3E
SEP 17																	179.8E 142.4E
																214314	TASTAL
SEP 17	08	D108	38.2			*PP	08	52								17.2N	94.1W
SEP 18		DIII															146+9E
		D134														35 . 9N	70+4E
SEP 19		D104															177.3W
SEP 19	03	D139	37.0													37.3N	141.7E
SEP 19	11	C106	15.0	14	20	*PP	0.6	27									145 35
SEP 19			15.8	1.4	29	*PP	0.6	37									145,2E
SEP 19		133				p*	33	66	C.	34	22	SG :	16 3				23,4W 14,7E
SEP 19			31.6			*PP			3.	24	34	30 .		2			100,5E
SEP 20		C143				*PP											139,9E
SEP 20																24,5N	
SEP 20			19			*PP				-	12.00					8 + 05	74,5W
SEP 20			45 2						PKP2								163,4E
SEP 20 SEP 20						SKP			PKPZ	21	00						163,4E
JLF 20	10	C130	11.5			SKP	20	20								20,85	169,8E
SEP 20	12	E26	40													49.85	163,8E
SEP 20							24									23.7N	
SEP 21	18	105	26.0													1110	
SEP 21																17.9N	
SEP 22	05	0110	42.6													50 . ON	77 + 6E

* * * *			* *	/DVD		/SKS	TRO) SEI * * * * SUPP PHASE		* *	* * *		* * 1					* *		PAGE 16	
MTH	H DY	HR	2	M S	- 4	M C	DHACE	M	S	PHAS	E	M 5	PHA	SE	M s	5 /	AZT	RES	MARKS	
*	* *	* *	* *			* * *	* * * *	. *	* *		*			* *	* *			* * *	* * * *	
04.	-	00	4.4	7 4406															20.1W	
	22			8 05.2			*PF	28	3 24										149.4F	
	22			9 29.0															148,4E	
	22			4 57.4			*pp	45	10										149,4E	
SEF	22	20	E1	8 45															94,6E	
ecr	22	22																	. ,,,,,	
	23			9 40.8														36.21	71.4E	
	23			4 49.0			SKP												179.7W	
	23			1 54					02										164,0E	
	23	08					SKP	0.0	26										179.6W	
SEF	23	09	12.	3 02 . 4															172,7E	
CED	23	22	- 50	2 02																
	24		EO:															29 + 65	179+3W	
	24			20.6															128.6E	
	24			9 28.0															141+5E	
	25			7 15.8															19.7E	
SEP	25	VB	012	1 17.8			*PP	21	29										61.5W	
SED	25	0.0	DIO	2 59.6																
	25																	17.7N	61 + 6W	
	25			3 49.4			1	24	02							1	.7		145+4E	
	25			11.4															126,6E	
	25			52.8			1	17	04										125 + 5E	
SEF	25	19	D154	- 31.0															151+4W	
SEP	26	0.6	0156	54.2			nen		44.0											
	26			06.5			PCP	57	37									46 + 9N	150+6E	
	26			05.3														33,65	70 + 5W	
SEP				19.2														30,05	71,5W	
SEP				27.9														7,15	155 . 8E	
SEF	21	0.7	0131	21.9														34,4N	26,6E	
SEP	27	17	C111	04.0																
SEP				32.0														NEVAD	A	
SEP				21.2														42 + ON	79.5E	
SEP		05		23			DWD		7.4									52+2N	171+OW	
SEP		15		56			PKP	15	42									6+65	153,4E	
- Cui	20	10	200	20														59,5N	147 + 1W	
SEP	30	08	DIOS	34.8			PCP	00												
OCT				55.6														28 + 9N	129,9E	
OCT		18		36.3			SKP	23	21									21,05	178+8W	
OCT		17		47			PKKP												85.9W	
OCT		17		07.0			PKKP	50	55									38 . 5N	112.0W	
		-		01.0														38,5N	112.0W	
OCT	04	18	C135	56.0																
OCT	05			19.4															143.0E	
OCT	05	19			17	36													20.7E	
OCT	06	04	E12			20												74 + 4N		
OCT	06	07	E05																66,4E	
																		57,7N	65,3E	
OCT	07	08	D137	48.2														202 203		
OCT	07			08.0															156.3E	
OCT	07			31.6															178,9W	
OCT	09			36.4															160,4E	
OCT	09			33.4			1	10	43	PP	21	22							46 + 2W	
											21	23						54,1N	155 . 1E	
OCT	09		E37				PKP	39	37	1	30	48	CVO	4.5	00					
OCT				34.6			1.141		-	1	39	40	SKP	42	09			21+15	179.3W	
OCT		18	D151	11.0			SKP	53	38									21 22	170 0	
OCT	10	06	E57	48					-										179,3W	
																		36+9N	141,0E	