

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

JANUARY - MARCH, 1965

Lat. 57°10' N. Long. 2°6' W. Height above M.S.L. 12M. Lithologic Foundation: Glacial deposit over boulder clay.

Instruments: Milne-Shaw Seismographs, Photographic Registrations, Two Components.

Compt.		Mass	To	Damping Ratio	Magnification	1" Tilt	Date from which constants apply			
N		1 lb.	10 Sec.	20 : 1	150	19.0mm.	E-W 1.10.63			
E		1 lb.	10 Sec.	20 : 1	150	18.1 mm.	N-S 1.10.63			
No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Direction of Motion	Remarks Time of origin	
January, 1965										
1	1	N	iP	21 43 42			21.3°	N E		
		N	iS	47 32			2365Km	+ -	U.S.C.G.S: 35.7°N, 4.4°E	
		N	iSS	48 32				+ +	Ei 47m 42s	
		E	L	50 42					Ei 48m 37s	
		E	M	52 41	11	15.5			T ₀ = 21h 38m 58s	
		N	M	52 57	13	10				
			F	22 16						
2	10	E	eL	14 40 47					U.S.C.G.S: 13.5°S, 166.6°E	
		E	e	47 35					No N-S record	
		E	M	15 00 05	20	13.5				
			F	31 -						
3	24	NE	eP	00 25 58			111.8°	- -	U.S.C.G.S: 2.4°S, 126.0°E	
		E	i	26 55			12420Km	+ -	T ₀ = 00h 11m 16s.	
		NE	iPP	30 33	E12	57		- -		
		N	iPPP	32 48	N14	49		+ -	iE 32m 28m	
			iSKS	36 28				+ +		
		NE	i	37 44				+ +		
		NE	iPS	40 05				- +		
		N	i	40 23	12	35		- +		
		E	i	40 43	13	90		- +		
		E	iSS	46 18				- +	iN 45m 05s	
		E	iSSS	49 23				- +	iN 50m 55s	
		E	L	01 04 03						
		N	M	09 07	26	382				
		E	M	09 40	24	392				
			F	03 15 -						
February, 1965										
4	4	NE	e	05 02 32				- +	Foreshock	
		N	e	05 27						
			F Lost	in main shock						
5	4	NE	eP	05 12 42			71.2°	- -	U.S.C.G.S: 51.1°N, 178.4°E	
		NE	i	13 04			7910Km	+ -	T ₀ = 05h 01m 25m	
		E	iPP	15 37				+ +		
		E	iPPP	16 51				+ +		
		NE	iS	21 58				+ +		
		E	iPS	22 42				-		
		E	L	35 56						
		N	M ₁	43 46	15	613				
		N	M ₂	50 47	15	645				
		E	M ₁	51 27	15	600				
		E	M ₂	56 57	15	645				
			F ² Lost	in subsequent shocks						

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. " "	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.						
6	February, 4 [✓]		1956 (Contd)							N	E	
			NE	iP	08	52	02		71.9°	+	+	U.S.C.G.S: 51.3°N, 179.5°E
			NE	iS	09	01	22		7990Km	-	+	T _o = 08h 40m 42s
			N	iPS		01	47			+		
			E	ISS		06	02			-	-	iN 06m 27s
			N	L		22	32					
			N	M		28	34	20	60			
		E	M		30	12	15	48				
7	4 [✓]		N	i.	12	17	17		70.0°	-		U.S.C.G.S: 52.6°N, 172.1°E
			N	i		20	32		7780Km	-		T _o = 12h 06m 14s
			N	iPPP		21	32			-		
			NE	iS		26	27			+	+	
			NE	e, iSS		31	07			-	+	
			N	L		39	27					
			E	M		45	02	20	11			
		N	M		46	16	19	19				
			F		13	47	-					
8	4 [✓]		N	iP	14	29	39		70.0°	+	+	eE 30m 42s
			N	ePP		32	12		7780Km	+		U.S.C.G.S: 53.0°N, 171.0°E
			N	ePPP		33	47			+		
			NE	iS		38	48			+	+	
			N	iPS		39	27			+	-	iE 39m 39s
			NE	eSS		43	29			+	+	
			E	L		52	27					
		E	M		15	00	02	17	6			
		N	M		00	52	20	13.5				
			F		51	-						
9	4		E	e	19	55	42			+	+	eN 55m 47s
			E	i		57	09				-	
			NE	i, eS	20	04	49			-	+	
			NE	e		07	50			+	+	
			F		30	-						
10	5 [✓]		NE	eS	09	52	37		71.0°	+	-	U.S.C.G.S: 52.3°N, 174.3°E
			E	L	10	05	32		7890KM			T _o = 09h 32m 09s
			E	M		13	37	20	4			
			N	M		13	43	20	4			
			F		36	-						
11	6 [✓]		NE	iP	01	51	37		69.1°	+	+	U.S.C.G.S: 53.2°N, 161.9°E
			E	ipP		52	22		7680Km		-	T _o = 01h 40m 33s
			N	iPP		54	02			+		
			N	ePPP		55	41			+	-	eE 54m 43s
			NE	iS	02	00	47			+	-	
			N	ePS		01	20			-	+	iE 01m 32s
			E	iSS		05	27				-	
			N	eSSS		07	52			+	+	iE 08m 24s
			N	L		15	02					
			N	M		21	40	18	10			
			E	M		23	36	15	7			
			F		03	50	-					

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. "	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.				N	E	
February, 1965 (Contd)												
12	6✓	NE	eP	04	14	07	E20 4 N18 2	71.5° 7945Km	-	-	U.S.C.G.S: 52.1°N, 175.7°E T _o = 04h 02m 48s	
		N	ePPP		18	20						
		NE	eS		23	22						
		N	eSS		27	52						
		NE	M		51	12						
		F	05	30	-							
13	6✓	NE	iP	17	01	32	18 10 16 8	68.6° 7620Km	-	+	U.S.C.G.S: 53.3°N, 161.8°W T _o = 16h 50m 31s	
		N	ipP		02	07						
		N	iPP		04	03						
		NE	iS		10	34						
		N	iPS		11	07						
		NE	SS		15	22						
		N	L		23	47						
		N	M		31	10						
E	M		35	22								
		F	19	05	-							
14	7✓	NE	eP	02	28	42	15 1.5 15 1	70.0° 7780Km	+	+	U.S.C.G.S: 51.4°N, 173.4°E T _o = 02h 17m 32s	
		E	e		32	39						
		NE	eS		37	52						
		NE	e		42	34						
		E	L		52	07						
		N	M		58	42						
		E	M		59	12						
		F	03	35	-							
15	8✓	E	e	16	25	00	20 2.5			+	No N-S available. E-W doubtful	
		E	e		31	08						
		E	e		34	58						
		E	M		50	18						
		F	55	-								
16	12✓	E	eS	01	15	40	15 1.5	70.6° 7845Km	+	-	U.S.C.G.S: 52.5°N, 172.8°E eN 20m 50s	
		N	e		15	50						
		E	iSS		20	35						
		E	L		32	10						
		N	M		44	45						
		F	02	05	-							
17	23✓	E	eP	22	30	55	25 39 21 33 18 22 17 16	112.2 12465Km	-	+	eN 31m 00s	
		NE	i		36	11						
		NE	i		39	42						
		NE	iPS		44	56						
		NE	i		47	40						
		NE	e		54	05						
		N	M ₁		23	05						20
		E	M ₁		07	21						
		E	M ₁		15	11						
		N	M ₂		15	47						
		F ₂	24	49	-							

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.				N	E	
February, 1965 (Contd)												
18	26	N	eP	05	34	56		68.4°	-			
		N	iS		43	57		7600Km	+			
		N	iPS		44	45			-			T ₀ = 05h 23m 57s
		N	eSS		48	50			+			No E-W record
		N	L		58	45						
		N	M	06	03	00	20	7				
		N	F		29	-						
19	27	✓E	iP	08	20	41		18.7°		+		
		N	ePP		21	05		2080Km	-			
		E	iS		24	05				-		T ₀ = 08h 16m 27s
		N	eSS		24	55						
		E	L		25	55						
		N	M		30	40	10	13				
		N	F		50	-						
March, 1965												
20	1	✓E	eP	21	44	01		75.9°		-		
		N	e		52	26			+			
		E	iS		53	43		8435Km		+		T ₀ = 21h 32m 16s
		E	ePS		54	06				-		
		N	e	22	04	56			+			
		E	L		09	36						
		E	M		13	11	25	8.5				
		N	M		13	16	25	6.5				
		N	F		32	-						
21	✓2	NE	e, iP	22	10	57		23.1°	+	-		
		NE	eS		15	03		2565Km	+	+		
		E	eSS		16	07				+		
		N	L		17	12						
		E	M		20	27	14	10				
		N	M		21	02	20	5.5				
		N	F		32	-						
22	3	N	ePP	16	00	58		80.5°	+			
		NE	ePPP		02	57		8945Km	+	+		
		NE	i		07	18			+	-		T ₀ = 15h 45m 43s
		E	e		10	27				+		
		E	eSSS		17	09			+			
		E	L		24	12						
		N	M		29	52	20	30				
		E	M		30	19	22	42.5				
		N	F		50	-						
23	9	✓NE	i, eP	18	03	20		24.1°	+	+		BCIS: 39.1°N, 21°E
		NE	i, eS		07	35		2680Km	+	+		
		NE	iSS		08	31			+	+		T ₀ = 17h 58m 06s
		N	L		10	12						
		E	L		10	18						
		E	M ₁		12	45	15	115				
		N	M ₁		13	03	15	82				
		N	M ₂		14	09	14	80				
		E	M ₂		15	35	14	135				
		N	F ₂		41	-						

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. " "	Δ° km.	Directions of Motion		Remarks Time of Origin	
				h.	m.	s.				N	E		
March, 1965 (Contd)													
24	13	NE	iP	15	00					-	+	U.S.C.G.S: 39°N, 23.4°E	
		E	iS	19	12			23.7°			+		
		E	eSS	21	52			2635Km			+		
		NE	L	24	42								
		E	M	27	04	13	7						
		N	M	27	12	13	5						
			F	44	-								
25	✓14	NE	iP	16	01	50		49.0°		-	-		
		NE	iPP	03	33			5545Km		-	-		
		N	iPPP	04	07					-	-		
		NE	i	05	33					+	-		
		NE	iS	08	53					+	+		
		NE	iPS	09	48					-	-		
		E	iSS	12	23					-	-		
		N	i	12	53					-	-		
		N	M	14	18	10	130						
		E	M	14	38	10	150						
		E	M ¹	25	08	13	141						
		N	M ²	27	13	17	190						
			F ²	19	05	-							
26	16	N	i	17	29	33				+			
		E	e	29	38						-	Phases doubtful: obscured	
		NE	i,e	31	34					+	+	by microseisms	
		NE	i	39	03					+	+		
		E	e	43	08						-		
			F	49	-								
27	21✓	N	iSKS	11	33	42		114.8°		+	+	iE 33m 53s	
		N	iS	35	27			12755Km		+	+	U.S.C.G.S: 1.5°S, 126.5°E	
		N	i	39	42					+			
		E	iSS	43	52						+		
		E	i	46	32						+		
		N	e	12	05	42				+			
		E	e	07	42						+		
		N	e	15	57					+			
		E	M	19	22	20	19						
		N	M	24	03	20	7						
			F	40	-								
28	22✓	N	e	03	56	07				-			
		N	M	04	02	14	25	10					
		E	Traces	04	00								
				-09	00								
			F	11	-								
29	23	E	e	23	53	42					+		
		N	Traces	53	00								
				24-03	00								
		E	M	23	59	17	20	4					
			F	24	07	-							
30	28✓	N	iPP	16	51	36		107°		+			
		N	iSKS	57	56			11890Km		+		T ₀ = 16h 33m 03s	
		N	iS	59	27					+			
		N	iPS	17	01	03				+		E-W light failed	
		N	iPPS	02	01					+			
		N	iSS	06	43					+			
		N	iSSS	11	23					+			
		N	L	24	51					+			
		N	M	32	06	23	46						
			F	19	30	-							

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KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. "	Δ° km.	Directions of Motion		Remarks Time of Origin			
				h.	m.	s.				N	E				
March 1965 (Contd)															
31	29	E	e	11	08	06	20	16.5E 8N	73.5°		+	U.S.C.G.S: 40.8°N, 142.8°E			
		N	eS			09				41	-				
		N	iPS			10				08	+				
		NE	eSSS			18				21	-		+		
		NE	e			23				21	+		+		
		N	L			29				20					
		NE	M			39				16					
			F	12	10	-									
32	30	NE	i, eP	02	38	31	15	82	8165Km	+	+	U.S.C.G.S: 50.6°N, 177.9°E			
		N	iPP			39				03	+				
		NE	iPP			41				16	+		-	T _o = 02h 27m 01s	
		E	iPPP			43				05	+		+		
		N	iS			48				00	+		+	iE 48m 06s	
		E	iPS			48				37	+		-	iN 48m 28s	
		NE	iSS			52				56	-		+		
		N	M			54				03					
		NE	iSS			56				11	+		+		
		N	L			03				01	51				
E	M			04	51	25	144								
N	M			06	18	22	134								
			F	05	50	-									
33	31	NE	iP	09	52	43	8	94	24.6° 2735Km	+	-	BCIS: 38.25°N, 22.5°E			
		N	iPP			53				19	-				
		NE	i			54				02	-		-	T _o = 09h 47m 24s	
		N	M			57				09	-				
		NE	iS			57				12	+		+		
		E	M			57				27	8		130	+	+
		N	iSS			58				02	+				
		N	L			59				20					
E	M			10	02	26	10	78							
N	M			04	52	14	71								
			F	11	50	-									
34	31	N	e	23	55	25	20	4				U.S.C.G.S: 50.3°N, 177.7°E			
		N	M			57				10					
			F	24	05	-								No effect on E-W Record	

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SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

APRIL - JUNE, 1965

Lat. 57°10' N. Long. 2°6' W. Height above M.S.L. 12M. Lithologic Foundation: Glacial deposit over boulder clay.

Instruments: Milne-Shaw Seismographs, Photographic Registrations, Two Components.

Compt.	Mass	To	Damping Ratio	Magnification	1" Tilt	Date from which constants apply	
N	1 lb.	10 Sec.	20 : 1	150	19.0 18.1 mm.	E-W 1.10.63 S-S.65'	
E	1 lb.	10 Sec.	20 : 1	150	19.0 18.1 mm.	N-S 1.10.63 S-S.65'	

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Direction of Motion	Remarks Time of origin
1	April 3 ✓	NE	eS	11 42 55	15 20	1.5 4	79.7° 8855Km	N E	U.S.C.G.S:16.0°N, 97.9°W
		N	e	43 20				- +	
		E	eSS	48 20				+ +	
		NE	eSSS	51 32				- +	
		NE	L	12 03 -					
		N	M	11 47					
		E	M	13 20					
2	5 ✓	E	iP	03 18 26	15 16	31 20	26.8° 2980Km	N E	B.C.I.S:37.75°N, 22.0°E
		N	e	18 42				- -	
		E	ePP	19 16				+ +	
		NE	iS	23 04				+ +	
		N	i	23 26				+ -	
		E	iSS	24 08					
		NE	L	25 50					
3	6 ✓	NE	e	10 01 22	20 20	2.5 5.5		N E	U.S.C.G.S:0.5°S:119.9°E
		NE	e	10 37 07				+ +	
		NE	e	40 20				- +	
		NE	e	44 35				+ +	
		N	M	47 32					
		E	M	48 27					
			F	11 04 -					
4	8 ✓	NE	eS	14 04 34	15	5		N E	U.S.C.G.S:52.2°N, 173.5°E eN 09h 29m
		E	eSS	09 15				- -	
		E	M	21 35					
			F	59 -					
5	10 ✓	E	eP	00 02 58	20 16	41 51	27.1° 3010Km	N E	B.C.I.S.35.5°N, 24.5°E
		E	iPP	03 18				+ +	
		NE	iPPP	03 51				+ -	
		NE	iS	07 38				- -	
		N	iSS	09 18				+ -	
		NE	L	11 29					
		N	M	14 38					
		E	M	14 45					
	F	56 -							

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No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Directions of Motion		Remarks Time of Origin		
				h.	m.	s.				N	E			
6	April 16 ✓	E	S	23	40	04	15	2.5		N	E	U.S.C.G.S: 64.7°N, 160.1°W		
			eSSS	45	47									
				47	30									
			L	50	50									
			M ₁	54	55									
			M ₂	12	00	22							13	2.5
			F	28	-						Effect on N-S very slight			
7	18 ✓	E	e	10	40	05	15	2.5		-	+	U.S.C.G.S: 59.8°S, 26.8°W		
			e	41	15									
			M	48	12									
			F	53	-									
8	20 19 ✓	E	e	24	27	22	20	5		+		U.S.C.G.S: 34.9°N, 138.0°E Very slight on N-S		
			M	29	42									
			F	41	-									
9	26 ✓	E	e	22	58	20	18	13	28° 3110Km	-	+	Shock 150 miles S of Athens		
			NE	eS	23	01							30	
			NE	eSS	02	10								
			E	L	04	40								
			N	M	06	35								
			E	M	06	58							22	30
			F	30	-									
10	27	N	ePP	14	15	30	15	3		+	-	U.S.C.G.S: 35.7°N, 23.5°E		
			i	17	45									
			iS	19	36									
			i	20	09									
			L	22	08									
			M	25	50									
			F	47	-									
11	29 ✓	NE	iP	15	39	18	20	27	63.5° 7055Km	+	-	U.S.C.G.S: 47.4°N, 122.4°W		
			i, ePP	41	38									
			PPP	43	08									
			iS	47	53									
			i	48	34									
			i	48	43									
			iSS	52	18									
			i	54	50									
			L	59	28									
			M	16	04	45							26	51
			M	05	10									
			F	17	14	-								
12	May 3 ✓	N	i	10	22	22	20	5.5		+	+	U.S.C.G.S: 13.5°N, 89.3°W		
			NE	i, eS	22	18								
			E	eSS	28	23								
			E	e	31	16								
			N	i	34	09								
			E	L	38	40								
			M	42	36						No maximum on N-S			
			F	11	20	-								

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Directions of Motion		Remarks Time of Origin	
				h.	m.	s.				N	E		
13	May 17 ✓	(Contd)	E	e	17	28	40		86.8°	N	E	U.S.C.G.S: 22.5°N, 121.3°E iN 36m 08s T _o = 17h 19m 36s iE 44m 11s	
			NE	e, iP		32	19		9645Km	+	+		
			E	iPP		36	01			-	+		
			E	ePPP		37	40				+		
			E	eSKS		42	31				-		
			NE	iS		42	57				-		
			N	i		44	06				+		
			NE	i, eSS		48	46				+		
			N	eSSS		52	23				+		
			E	L	18	01	21						
			E	M		07	46	24	86				
			N	M		08	11	24	67				
				F	19	07	-						
14	20 ✓		E	e	01	01	32		137°		+	U.S.C.G.S: 14.7°S, 167.4°E eE 02m 42s eE 03m 37s E 44m 47s	
			N	ePP		02	25			+	-		
			N	iSKP		03	12			15220Km	-		+
			N	ePPP		05	22				+		
			E	eSKS		06	36						+
			E	e		08	07						+
			E	i		15	24						-
			N	L		45	32						
			E	M ₁		53	43	20	22				
			N	M ₁		55	24	25	30				
			N	M ₂		58	27	22	33				
			E	M ₂	02	04	30	20	30				
				F ₂	03	30	-						
15	25		E	e	00	10	43				+	U.S.C.G.S: 13°N, 124.5°E	
			N	e		11	28				+		
			NE	L		14	48						
			E	M		21	43	20	3				
			N	M		23	28	20	3				
	F		36	-									
16	June 2 ✓		E	iP	23	49	39		54.1°		+	U.S.C.G.S: 16°N, 46.8°W T _o = 23h 40m 16s eN 00m 49s eE 03m 55s	
			N	ePP		51	51		6010Km	+	-		
			E	ePPP		52	36						
			NE	i, eS		57	15				+		
			E	eSS	24	01	00				+		
			N	eSSS		03	45				-		
			NE	L		06	20						
			N	M		09	00	15	4				
			E	M		09	03	15	6.5				
				F		37	-						
17	11 ✓		NE	i, eP	03	45	28		75.3°		+	U.S.C.G.S: 44.7°N, 148.7°E T _o = 03h 33m 46s	
			NE	ipP		45	46		8255Km	+	+		
			E	iPP		48	20						
			NE	iS		55	06				-		
			NE	eSS	04	00	11				+		
			E	eSSS		03	04				+		
			N	i		04	06				-		
			NE	L		14	25						
			E	M		18	49	20	85				
			N	M		20	46	18	47				
	F	07	03	-									

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Directions of Motion		Remarks Time of Origin					
				h.	m.	s.				N	E						
18	June 17	(Contd)	N	e	20	45	34				N	E					
			E	i		45	37										
			E	eL		48	42										
			N	L		51	22										
			E	M		53	57				15	3					
			N	M		55	12				15	5					
			F	21	05	-											
19	21 ✓		N	S	00	37	06		59° 6555Km		-		U.S.C.G.S: 28.1°N, 56.0°E				
			E	i		37	17										
			N	eSS		41	13										
			E	L		47	41										
			E	M		51	56				20	5					
			N	M		51	31				20	4					
			F	01	10	-											
20	23		E	e	00	15	53					-	U.S.C.G.S: 7.1°N, 123.5°E				
			N	e		16	16										
			N	e		18	21										
			E	L		38	26										
			NE	M		44	36				N27	10)					
				F		01	05				E25	9)					
			F	01	05	-											
21	23 ✓		E	eP	11	19	51		64.0° 7110Km			-	U.S.C.G.S: 56.6°N, 152.9°W				
			E	iS		28	27										
			E	i		28	42										
			E	iSS		32	36										
			E	eSSS		35	30										
			E	L		40	16										
			E	M		45	01				20	19					
				F		12	52				-						
22	27 ✓		E	e	11	45	32					-	No N-S record				
			E	e		59	30										
			E	L		12	20				25						
			E	M ₁		24	05				20	22					
			E	M ₂		31	41				15	16					
				F ₂		47	-										

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SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

JULY - SEPTEMBER, 1965

Lat. 57°10' N. Long. 2°6' W. Height above M.S.L. 12M. Lithologic Foundation: Glacial deposit over boulder clay.

Instruments: Milne-Shaw Seismographs, Photographic Registrations, Two Components.

Compt.	Mass	To	Damping Ratio	Magnification	1" Tilt	Date from which constants apply	
N	1 lb.	10 Sec.	20 : 1	150	19.0 300 mm.	E-W 5.5.65	
E	1 lb.	10 Sec.	20 : 1	150	19.0 300 mm.	N-S 5.5.65	

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. "	Δ° km.	Direction of Motion	Remarks Time of origin	
1	July 1 ✓	E	ePPP	23 41 20			169° 18780Km	N	U.S.C.G.S: 63.0°S, 163.7°W	
		E	e	42 31				+		
		E	ePSKS	48 45				+		
		E	eSS	58 50				+		
		E	e	24 00 45				-		No N-S record available
		E	L	37 25						
		E	M ₁	46 40				20		2.5
2	2 ✓	NE	iP	21 09 44			68.2° 7580Km	-	U.S.C.G.S: 53.1°N, 167.7°W	
		NE	iP _e P	10 10				-		T _o = 20h 58m 46s
		NE	iPP	12 18				-		
		E	ePPP	13 36				-		iN 13m 55s
		NE	iS	18 44				+		+
		N	iSeS	19 28				-		iE 19m 37s
		N	iSS	23 05				+		+
		E	eSSS	26 16				+		iN 26m 45s
		E	i	29 35				+		+
		E	M	33 03				21		33
		N	M	33 35				35		155
3	3	E	iP	02 26 22			18.6° 2065Km	+	U.S.C.G.S: 52.7°N, 32.1°W	
		E	e	26 29				+		T = 02h 22m 09s
		E	iS	29 45				-		eN 29m 42s
		E	eSS	30 35				+		+
		E	L	31 15						
		NE	M	32 17				17		14
		E	M	33 05				13		11.5
4	3	E	eS	11 47 58				+	U.S.C.G.S: 22.6°N, 101.4°E	
		E	e	52 28				+		
		E	eSS	53 17				+		
		N	eSSS	56 28				-		
		NE	M	12 09 46				20		E 2.5 N 4
5/										

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. "	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.						
July (Contd.)												
5	5	E	iP	08	36	18				N	E	
		E	i		36	33		19.8°				+ U.S.C.G.S:52.9°N,34.2°W
		E	iS		39	41		2200Km				+ T ₀ = 08h 31m 51s
		E	L		42	03						No N-S record
		E	M		43	18	13	15				
		E	F	09	18	-						
6	6 ✓	NE	iP	03	24	01				-	+	U.S.C.G.S:38.7°N,22.6°E
		E	iPP		24	35		25.2°				- T ₀ = 03h 18m 36s
		E	iPPP		24	45		2800Km				
		E	iS		28	26				+	+	iN 28m 31s
		E	M		28	37	10	64				
		N	M		28	41	8	47				
		NE	L		31	10						
		N	M		35	23	14	67				
		E	M		36	35	10	59				
		E	F	04	30	-						
7	8	E	eL	00	21	00						U.S.C.G.S:72°N, 1.6°W
		E	M		22	23	15	2.5				
		N	M		22	52	15	1				
		E	F		25	-						
8	29 ✓	NE	iP	08	40	49				+	+	U.S.C.G.S:51.2°N,171.3°W
		NE	i		41	07		71.5°		+	-	
		NE	i		42	48		794.5 Km		+	-	
		E	i		44	09				+	+	
		N	i		45	14				-	+	
		NE	iS		50	09				+	+	
		NE	iPS		50	54				-	-	
		E	iSS		54	00				+	+	
		N	i		55	10				+	+	
		N	iSSS		57	39				+	+	iE 58m 16s
		E	M	09	13	31	20	44				
		N	M		13	38	16	50				
		E	F	11	14	-						
9	31	E	e	08	21	23						U.S.C.G.S:35.9°N,142.2°E
		N	e		24	13				-	+	
		NE	e		28	50				+	+	
		E	M		30	29	16	2				
		N	M		32	28	16	2				
		E	F		44	-						
August												
10	2 ✓	E	ePKP ₁	13	40	18						U.S.C.G.S:56.2°S,158.2°E
		E	ePKP ₂		41	32		170°				
		N	eSKP ₂		44	27		18890Km				
		E	ePP		45	08				+	+	
		N	ePPP		49	20				+	+	
		N	ePSKS		55	42				+	+	
		N	eSS	14	05	52				-	-	eE 05m 12s
		E	L		40	12						
		E	M		52	32	28	37				
		N	M		54	50	24	31				
		E	F	16	07	-						
11/												

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. " "	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.				N	E	
	August									N	E	
11	5 ✓	NE	ePP	00	28	32		124.3°	+	+		U.S.C.G.S: 53°S, 151.7°E
		E	eSKP		30	05		13810Km		+		
		N	ePPP		31	16			-	+		eE 31m 06s
		N	eSKKS		35	23			-	+		eE 35m 16s
		N	e		38	16			-			
		E	ePS		38	45				-	-	
		NE	ePPS		41	05			-	-		
		N	e		45	40			+			
		E	eSSS		50	15					+	
		E	L	01	07	40						
		E	M		20	15	22	13				
		N	M		23	25	25	13				
			F	02	28	-						
12	11 ✓	NE	ePKP	04	00	23		137.8°	+	-		U.S.C.G.S: 15.4°S, 166.9°E
		N	iPP		03	06		15310Km	-			
		N	eSKP		03	51			-			
		E	eSKS		07	16					+	
		N	eSKKS		09	56			-			
		N	iS		11	20			+			
		N	ePPS		15	26			-			
		E	eSS		21	21					-	
		N	eSSS		26	16			-			
		E	L		47	20						
		E	M	05	01	09	22	30				
		N	M		03	29	18	18				
			F	06	40	-						
13	11	N	e	18	41	40		59.9°	-			
		E	e		45	20		6655Km			-	
		E	eS		48	00					+	
		E	ePS		48	40					+	
		N	eSS		52	16			-			
		N	L	19	00	-						
		N	M		04	30	15	1.5				
		E	M		05	42	15	2				
			F		11	-						
14	11 ✓	N	ePP	20	14	46		138°	+			U.S.C.G.S: 15.7°S, 167.1°E
		NE	eSKP		15	30		15335Km	-		+	
		N	ePPP		17	43			-			
		N	eSKS		18	31			-			
		E	eSKKS		21	16					-	
		E	ePSKS		24	36					+	
		NE	ePPS		27	20			-		-	
		N	eSS		32	41			+		+	eE 32m 50s
		NE	L		59	-						
		E	M	21	14	38	22	16				
		N	M		16	08	17	14				
			F	22	48	-						
15/												

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.						
	August (Contd.)								N	E		
15	11	✓	N	ePKP	22	51	20		140°	-	-	iE 51m 30s
			NE	iPP		54	10		15555Km	-	-	U.S.C.G.S:15.8°S,167.2°E
			N	iSKP		54	46			+	-	iE 55m 00s
			E	iPPP		57	13					
			E	eSKS		58	36				+	
			N	ePSKS	23	04	36			+		
			E	iPPS		06	23				-	
			E	M		31	00	48	2.2mm			
			N	L		38	10					
			N	M		58	13	21	64			
			E	M	24	08	34	20	82			
				F	26	05	-					
16	12	✓	NE	eSKP	08	24	40		138.2°	-	+	eE 27m 20s
			N	ePPP		26	51			+	+	
			N	eSKS		28	10		15355Km	-	+	
			E	eS		32	05					U.S.C.G.S:15.9°S,167.5°E
			N	ePPS		36	15			+		
			N	L	09	07	40					
			N	M		28	28	20	7			
			E	M		29	55	20	5.5			
				F		37	-					
17	12	✓	NE	ePKP	13	15	36		124.5°	-	+	U.S.C.G.S:5.3°S,152.2°E
			N	e		16	41		13835Km	-		
			E	ePP		18	13				+	
			E	eSKP		19	16				-	
			E	eSKS		23	30				+	
			N	eSKKS		24	56			-		
			N	eS		25	28			+		
			N	ePS		27	58			+		
			E	ePPS		29	16				+	
			N	eSS		34	47			+		
			N	eSSS		39	36			-		eE 40m 18s
			E	L		56	30					
			N	M ₁	14	04	33	25	26			
			E	M ₁		07	46	23	22			
			N	M ₂		10	39	25	35			
				F ₂	14	45	-					
18	13	✓	NE	ePKP	13	00	05		138.2°	+	-	U.S.C.G.S:15.9°S,166.8°E
			NE	e		01	50		15355Km	-	-	
			NE	ePP		02	10			-	-	
			E	eSKP		03	06			-	+	N 03m 25s
			E	ePPP		05	20			-	+	eN 05m 36s
			N	iSKS		06	25			+		
			E	i		07	45				-	
			N	i		18	05			+		
			NE	iSS		21	05			-	-	
			E	iSSS		25	30			-	+	iN 25m 35s
			NE	L		46	60					
			E	M		51	30	25	48			
			N	M		53	40	23	47			
				F	16	03	-					
9/												

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. "	Δ° km.	Directions of Motion		Remarks Time of Origin		
				h.	m.	s.								
August (Contd.)														
26	23 ✓	NE	iP	19	58	04			79.5° 8835Km	N	E	U.S.C.G.S:16.3°N,95.8°W T _o ; 19h 45m 59s		
		N	i		58	45				-	+			
		NE	iPP	20	01	05					+		+	
		E	i		03	03					-		-	
		E	i		07	50					+		+	
		N	iS		08	05					-		-	
		NE	M		08	25		E11 N12		65 63				iE 08m 10s
		NE	iPS		08	50					+		+	
		N	iSS		13	35					+		+	iE 13m 50s
		NE	i		19	00					-		-	
		NE	L		24	-								
		E	M		28	52	23			760				
		N	M		28	57	25			248				
				F	24	15	-							
27	24 ✓	E	eP	01	08	25			81.0° 9000Km			U.S.C.G.S:15.9°N,96.2°W T _o = 00h 56m 12s		
		E	ePPP		13	12				+	+			
		E	iS		18	35				+	+			
		E	ePS		19	12				-	-			
		E	e		23	11					-		-	
		E	eSS		23	42					+		+	
		E	M		45	55	20	2.5					- Only slight traces on + N-S record	
			F		02	15	-							
28	24	N	e	13	26	25				+		U.S.C.G.S:59.4°N,145.6°W + Phases doubtful.		
		E	eS		30	45				-	-			
		E	eSS		34	25				+	+			
		N	M		47	25	15	1.6						
		E	M		49	42	15	2.4						
	F		58	-										
29	25	E	M	05	15	50	10	1				U.S.C.G.S:34.7°N,25.1°E Effect very slight		
		N	M		16	10	10	1						
			F		22	-								
30	31	N	e	07	28	28				-		No E-W record available		
		N	eS		31	08				-	-			
		N	eSSS		40	28				+	+			
		N	L		47	16								
		N	M		55	20	18	5.5						
	F		08	10	-									
31	31	NE	e	09	37	-						U.S.C.G.S:1°N,27.8°W		
			F		44	-								
		N	M		38	35	15	2.5						
	E	M		40	10	15	2.5							
September														
32	4 ✓	NE	iP	14	43	22			62° 6890Km	+	-	U.S.C.G.S:58.2°N,152.6°W iE 45m 18s T _o = 14.33.04 iN 52m 14s		
		N	i		43	38				-	-			
		N	iPP		45	38				+	-			
		NE	i, ePPP		46	55				+	+			
		NE	iS		51	46				-	-			
		E	iPS		52	18				+	-			
		NE	eSS		56	23				-	-			
		N	iSSS		58	25				+	+			
		N	L		15	02	38							
		E	M ₁		04	38	27	146						
		N	M ₁		07	08	27	180						
		N	M ₂		13	03	20	137						
		E	M ₂		13	16	16	73						
	F		17	44	-									

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. " "	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.				N	E	
September (Contd)												
33	6	NE	e	04	07	05				-	+	
		N	M	09	23		22	5				
		E	M	09	48		20	5.5				
			F	22	-							
34	9 ✓	N	e	10	16	16				+		U.S.C.G.S:6.5°N,84.4°W
		NE	e,iS	24	46					-	+	
		N	iPS	25	21					-	+	iE 25m 36s
		E	i	26	51						+	
		N	eSS	29	21					-		
		N	L	36	50							
		E	M	41	30		30	6				
		N	M	45	14		21	10.5				
			F	11	18	-						
35	11 ✓	N	eSKS	07	18	52				-	+	eE 19.16
		E	eSKKS	20	36						-	U.S.C.G.S:5.3°S,153.0°E
		E	eS	21	46						-	
		N	eSS	30	28					+		
		N	eSSS	35	26					-	-	eE 35m 40s
		E	L	52	26							
		E	M	08	02	56	20	5				
		N	M	04	16		20	5				
			F	45	-							
36	12 ✓	NE	eSS	09	18	10				+	-	U.S.C.G.S:6.3°S,151.6°E
		N	eSSS	22	07					+		
		E	e	45	05						+	
		E	L	52	10							
		E	M	57	13		20	4				
		N	M	57	20		22	4				
			F	10	06	-						
37	12 ✓	NE	e,iP	22	15	15			84.5° 9390Km	+	+	U.S.C.G.S:6.4°S,70.8°E
		E	ePP	18	35						-	T ₀ =22h 02m 43s
		E	ePPP	20	15						+	
		NE	e,iS	25	42					-	+	
		E	ePS	26	25						-	
		M	eSS	31	35					+		
		N	eSSS	34	33					+		
		N	L	43	15							
		E	M ₁	50	17		20	2.5				
		N	M ₁	51	18		20	4				
		E	M ₂	58	40		15	3				
		N	M ₂	23	00	37	17	4				
			F ₂	35	-							
38	13 ✓	NE	e,iS	13	27	40				+	+	U.S.C.G.S:55.5°N,165.7°E
		N	ePS	28	20						-	
		N	eSS	32	15					+		
		E	e	36	10						+	
		E	L	40	25					-	+	
		E	M	51	30		20	4				
		N	M	52	37		17	3				
			F	14	07	-						
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KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.				N	E	
	September (Contd.)											
9	14	NE	eS	09	18	02		63°		N	E	
		N	e		26	10		7000Km		+	-	
		NE	L		29	35				-	-	T ₀ = 08h 59m 08s
		E	M		33	20	18	4.5				
		N	M		35	10	15	1.5				
			F		44	-						
0	17	NE	e, iP	11	26	10		79.2		+	+	U.S.C.G.S.: 1.4°S, 77.6°W
		N	i		27	09		8800		+	+	T ₀ = 11h 14m 06s
		E	ePPP		30	45				-	+	
		NE	iS		36	10				-	+	
		NE	i, ePS		37	06				-	-	
		N	eSS		41	15				-	-	
		E	L		51	30						No definite Max. on
		E	M		57	25	20	2.7				N-s
			F		12	29	-					
1	17	NE	iP	16	33	40		81.0		+	-	
		NE	iS		43	50		9000Km		-	+	T ₀ = 16h 21m 27s
		NE	e, iPS		44	43				-	+	
		E	iSS		49	15					+	eN 49m 45s
		N	L		17	00	05					
		N	M		13	10	20	41				
		E	M		14	32	17	66				
			F		18	31	-					
2	18	N	e	23	00	35				-		
		E	e		02	30					+	Effect slight
		E	M		09	22	16	3.6				
			F		17	-						
3	19	E	e	04	02	20					+	
		N	e		02	35				-		
		E	M		03	25	15	3				Effect slight
		N	M		04	25	15	3				
			F		08	-						
4	21	N	iP	01	50	43		80.6°		+		U.S.C.G.S.: 29.1°N, 128.2°E
		N	ePP		53	45		8955Km		+		T ₀ = 01h 38m 32s
		NE	iS		02	00	50			-	-	
		NE	e		03	19				-	+	
		E	i		07	50					+	
		N	i		15	25				+		
		E	M		29	08	19	15				
		M	M		30	55	15	9.5				
			F		53	-						
5	22	E	e	05	07	10					+	U.S.C.G.S.: 20.8°N, 99.3°E
		E	M		10	15	18	5.5				N-S too faint.
			F		19	-						
6	22	NE	e, iS	22	30	28				-	+	U.S.C.G.S.: 36.4°N, 141.3°E
		N	e		34	25				-		
		E	eSS		35	44						
		N	eSSS		39	24		81.5		-	-	
		E	L		48	19		9055Km			+	
		N	L		51	39	20	15				
		E	M ₁		55	25						
		N	M ₁	23	00	39	22	19				
		E	M ₂		01	00	18	18				
			F ₂		34	-						

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. " "	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.				N	E	
September (Contd.)												
47	28 ✓	N	e	06	21	55				-		
		N	e		27	35				+		
		N	M ₁	31	13		22	6.5				
		N	L ¹	38	-							
		N	M ₂	42	58		18	5.5				
		N	F ²	07	22	-						
September - October												
42 ✓	30/1	N	eP	23	58	17			58.9 ^o	+		
		N	ePPP	00	01	33			6545Km	-		
		E	e		03	33					+	
		NE	e, iS		06	22				+	+	
		E	ePS		07	18					-	
		N	eSS		10	29				-		
		E	L		16	54						
		E	M		22	19	18	7.7				
		N	M		22	47	15	9.6				
		N	F		01	25	-					
Maximum phases doubtful ? Deep Focus.												
A. E. M. GEDDES.												
NATURAL PHILOSOPHY DEPARTMENT, THE UNIVERSITY, ABERDEEN.												

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Directions of Motion		Remarks Time of Origin	
				h.	m.	s.				N	E		
October (Contd.)													
5.	18 ✓	E	eSKS	22	15	28						U.S.C.G.S: 1.1°S, 127.9°E	
		NE	e, iPPS	19	39								
		N	eSS	25	39								
		N	eSSS	29	05								eE 29m 20s
		E	L	46	10								
		E	M	49	20	25	22						
		N	M	49	35	25	19						
		N	M ₁	53	30	25	22						
		F ₂	23	25	-								
6	19 ✓	E	M	21	30	15	20	5.5				U.S.C.G.S: 52.3°N, 174.3°E	
		N	M	30	20	20	4						
		F	41	-									
7	21	E	eSSS	00	24	19						+ U.S.C.G.S: 12.5°N, 87.4°W N-S, no effect	
		E	L	31	23								
		E	M	33	26	20	2.5						
		F	44	-									
8	25 ✓	NE	iP	22	45	52						U.S.C.G.S: 44.2°N, 145.3°E T = 22h 34m 23s iN 48m 16s eE 50m 28s	
		N	iPeP	46	11				73.1				
		E	iPP	48	28				8120Km				
		N	iPPP	49	42								
		NE	iS	55	18								
		E	iPS	55	50								
		NE	eSS	23	00	03							
		N	eSSS	03	21								
		E	L	12	19								
		E	M	21	26	15	8						
		N	M	26	34	14	3.6						
		F	58	-									
9	November 3	N	iS	02	00	39						+ U.S.C.G.S: 9.1°S, 71.4°W - Deep focus - E-W record too faint	
		N	i	04	00								
		N	iSS	06	25								
		F	15	-									
10	12 ✓	E	iP	18	05	11			86.7°			+ eN 05m 16s - U.S.C.G.S: 30.5°N, 140.2°E	
		NE	e, iPP	08	39				9635Km				
		E	ePPP	10	44								
		N	e	12	19								
		NE	iS	15	48								
		N	iPS	16	31								
		NE	i	17	12								
		E	iSSS	25	12								
		N	L	39	20								
		E	M	44	43	16	16						
N	M	44	54	15	16								
		F	19	28	-								
11/													



KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Directions of Motion		Remarks Time of Origin	
				h.	m.	s.				N	E		
11	November 13 ✓	(Contd)	iP	04	43	19			54.0°	+	-	U.S.C.G.S: 43.8°N, 87.8°E iN 43m 50s T ₀ = 04h 33m 56s	
			Ei		43	31			6000Km	+	+		
			EiPP		44	48					+		
			NEiS		50	54					-		-
			NEiPS		51	20					-		-
			EiSS		54	54							+
			EiSSS		56	06							-
			NL		59	69							
			EM	05	04	29	10	37					
			NM		04	48	10	37					
12	15 ✓		iS	11	36	54			58.8°	+	-	eN 37m 04s U.S.C.G.S: 0.3°S, 18.7°W eN 45m 09s	
			EiPS		37	20					+		
			NEeSSS		43	06				6535Km	+		-
			Ei		45	44					-		+
			NEL		47	15							
			NM		50	00	15	16					
			EM		50	10	15	16					
13	16		iP	15	32	09				+	+	U.S.C.G.S: 31°N, 41.5°W eE 38m 09s Phases doubtful owing to shaking of building	
			NiPP		33	14					+		
			NiS		37	59					-		+
			NEL		43	58							
14	21	E	Slight irregularation on E-W record									U.S.C.G.S: 6.1°S, 130.4°E	
			11 00 - No definite phase										
			51 - No effect on N-S record										
15	23 ✓		e	02	11	24				-	+	U.S.C.G.S: 3°N, 124.8°E	
			NM		12	36	25	6.5					
			EM		14	09	25	8.5					
			EF		34	-							
16	28 ✓		e	04	49	33			118.1°		+	U.S.C.G.S: 45.6°N, 72.4°W	
			NEL		56	05			13120Km				
			EM	05	05	49	10	3					
			NM		06	38	20	4					
17.	28 ✓		iPPP	05	33	08			28.8°	-	+	U.S.C.G.S: 26.1°N, 27.7°E	
			Ee		36	28			3200Km		+		
			NiS		37	03					+		
			NEiSS		38	23					-		-
			NEL		40	28							
			NM		47	45	15	2.5					
			EM		48	43	14	2.8					
18/			EF		59	-							

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. " "	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.						
18	December 6 ✓	N	eP	11	47	22			80.6°	N	E	(1) U.S.C.G.S: 18.9°N, 107.1°W + eE 57m 38s
		N	iS		57	29				-	+	
		N	iPS		58	23			8955KM		+	(2) U.S.C.G.S: 18.8°N, 107.0°W
		N	iSS	12	03	12				+	+	
		E	i		04	50					-	
		NE	e		09	00					+	+
		N	L		15	02						
		N	M		25	42	15	24				
		E	M		29	57	12	12.5				
		F	46	-								
19	15 ✓	E	iS	23	27	17			78.3°	-	+	iN 27m 23s
		E	iPS		27	56			8700Km		+	iN 28m 28s
		NE	i		29	43					+	
		E	eSS		32	31					-	U.S.C.G.S: 7.5°N, 82.2°W
		N	L		38	19						
		N	M		40	24	24	31				
		E	L		43	01						
		E	M ₁		46	58	23	32				
		F ₁	24	12	-							
20	20	E	eP	00	13	31			25.2°	+	-	iN 13m 36s
		NE	iS		17	56			2800Km		-	U.S.C.G.S: 40.2°N, 24.8°E
		E	i		18	31					+	
		E	L		20	31						
		N	M		24	27	14	14				
		E	M		26	30	12	14				
		F	51	-								
21	22 ✓	iE	eP	19	51	48			62.3°	-	+	eN 51m 55s
		NE	iPP		54	06			6920Km		-	U.S.C.G.S: 58.4°N, 153.0°W
		E	iS	20	00	05					-	eN 00m 13s
		E	i		01	34					-	
		N	iSS		04	33					+	iE 04m 23s
		E	iSSS		06	46					-	
		E	i		09	14					+	iN 09m 38s
		NE	L		11	22						
		N	M		15	21	25	9				
		E	M		21	11	15	3				
		F	34	-								

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