

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

JANUARY, 1960

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	18.1 mm.	E-W	1.11.58
E		1 lb.	10 sec.	20 : 1	150	19.0 mm.	N-S	1.11.58

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir ⁿ of Motion	Remarks Time of origin
1	Jan 2	E E N	eL M M F	13 09 - 14 15 26 15 30 -	25 18	4 4.5		N E U.S.C.G.S.: South Atlantic	
2	7	NE E N	e M M F	14 26 - 29 16 29 55 55 -	18 18	4.5 4.5		U.S.C.G.S.: Sandwich Islands	
3	9	N E E N	i i i M F	04 15 20 15 58 18 58 19 18 25 -	19	2.5	+ + +	U.S.C.G.S.: 37°N, 29°E	
4	11	NE	LM	03 57 -) 04 15 -)				U.S.C.G.S.: 16°N, 96 ¹ / ₂ °E? Very slight	
5	13	E E E NE E N E NE E N E E	i iP iPP iSKS iSKKS i i L M ₁ M ₁ M ₂ M ₂ F ²	15 53 00 53 51 57 17 16 04 08 04 38 05 09 06 41 10 16 17 35 21 26 22 14 33 21 34 06 18 34 -	20 20 20 18	192 189 82 111	92.9° 10320Km	- + + - + + - + - + + - +	U.S.C.G.S.: 16°S, 72°W N 53m 58s N 04m 35s
6	15	NE N NE N E	eSSS L M M F	10 05 00 14 17 17 - 24 35 25 00 11 22 -	19 19	17 24.5	- +	U.S.C.G.S.: 15°S, 75°W	



KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir ⁿ of Motion	Remarks Time of origin
7	Jan 23	N E N E NE NE N E	i i iPS e L M ₁ M ₂ M ₂ F ²	05 02 43 04 42 09 57 16 00 39 - 46 22 52 12 52 22 06 02 -		4 7 4		N E - - + +	U.S.C.G.S.: 4°S, 127 ¹ / ₂ °E
8	23	E E NE E N	i i L M M F	08 07 00 11 58 30 20 44 32 46 00 53 -		2.5 2		+ -	U.S.C.G.S.: 4°S, 127 ¹ / ₂ °E
9	23	NE E N E	e M ₁ M ₁ M ₂ F ²	18 57 06 19 02 16 04 36 10 05 18 -	20 20 20	3 3 3			U.S.C.G.S.: 4°S, 127 ¹ / ₂ °E
10	24	NE N N E E N	L M ₁ M ₂ M ₁ M ₂ M ₃ F ³	05 27 10 39 14 44 08 47 18 52 45 06 29 02 41 -	20 17 20 16 17	5.5 4 5.5 3.5 4			U.S.C.G.S.: 15 ¹ / ₂ °S, 179°W By path > 180°
11	25	N	LM	17 47 - -55 -					U.S.C.G.S.: 16°S, 179°W
12	31	NE	LM	05 57 - 06 20 -					U.S.C.G.S.: 33 ¹ / ₂ °N, 134 ¹ / ₂ °E Hidden by large micro- seisms and shaking of building.

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SEISMOLOGICAL BULLETIN

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FEBRUARY, 1960

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	18.1 mm.	E-W	1.11.58
E		1 lb.	10 sec.	20 : 1	150	19.0 mm.	N-S	1.11.58

No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Dir ⁿ of Motion	Remarks Time of origin	
				h.	m.	s.						
1	Feb. 4	N E N E E N E NE N E N E	iPKP i iSKP ePPP iSKS i i L M ₁ M ₁ e ₁ e M ₂ M ₂ F	04	05	29	30 30 25 25	19 9	123° 13660km	N - + + + - +	U.S.C.G.S.: 4 1/2°S, 153 1/2°E	
					05	39						
					08	06						
					09	50						
					12	34						
					21	04						
					23	29						
					45	15						
					51	44						
					53	40						
					05	02						45
					09	45						
					47	05						
					47	15						
06	03	-										
2	4	E N E N E	eL M ₁ M ₁ M ₂ M ₂ F	17	35	15	20 20 18 15	5.5 5.5 4.5 5			U.S.C.G.S.: 39°, 143°E	
					38	18						
					42	33						
					44	00						
					45	22						
3	8	E N E E N E	e eL L M ₁ M ₁ M ₂ F	13	36	15	20 20 18	13.5 13.5 13.5			U.S.C.G.S.: 58°S, 67°W	
					41	25						
					45	-						
					56	58						
					57	33						
					14	00						58
38	-											
4	10	NE E E NE E N N E N N E N E N E	e,i i ePP e,i iPPP eSKS eSKKS ePS iSS iSSS L L M ₁ M ₁ M ₂ M ₂ F	00	15	28	27 27 25 22	24.5 29 22 20		+ + - + + - - - + - - + - -	U.S.C.G.S.: 4°S, 128°E	
					16	20						
					18	13						
					18	50						
					20	08						
					24	18						
					25	23						
					26	38						
					31	48						
					35	53						
					48	-						
					50	15						
					55	03						
					57	16						
01	00	08										
01	03	22										
54	-											



KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Dir ⁿ of Motion	Remarks Time of origin	
				h.	m.	s.						
5	Feb 19	E	iPPP	10	48	30	20	16.5		N E + +	U.S.C.G.S.: 36°N, 70 ¹ / ₂ °E Badly obscured by microseisms N 57m 00s	
		N	iS		51	52						+ +
		NE	i		54	05						- +
		NE	iSS		56	50						- -
		E	L		11	06						20
		E	M		09	00						
		E	F		17	-						
6	21	E	i	08	21	45	20	13.5		- + - +	U.S.C.G.S.: 36°N, 4 ¹ / ₂ °E	
		N	i		22	30						
		E	e		24	20						
		E	M		25	32						
		N	M		27	31						15
		N	F		38	-						
7	23	E	eLM	00	45	-					B.C.I.S.: 39 ¹ / ₄ °N, 20 ¹ / ₂ °E very slight	
8	23	N	eS	07	43	48	13	4		+ + - - - -	U.S.C.G.S.: 39°N, 20°E	
		E	e		43	59						
		E	i		45	28						
		NE	e		48	18						
		N	M		52	14						13
		E	M		52	18						
		E	F		08	10	-					
9	24	N	e	22	42	20	25	6.5		- + - +	U.S.C.G.S.: 77 ¹ / ₂ °S, 156°E Obscured by microseisms	
		E	e		42	40						
		N	M		47	28						
		E	M		56	05						25
			F		23	00						-
10	29	N	e	23	47	09	15	18		- + - - + - - + + - - -	U.S.C.G.S.: 30°N, 9°W iE 51m 04s Agadir Earthquake	
		E	i		49	05						
		E	i		50	32						
		N	iS		50	39						
		N	i		51	01						
		E	iSS		51	54						
		E	i		53	35						
		E	L		54	14						
		E	M		56	48						15
		N	L		58	40						
	N	M ₁	24	00	24	15	16					
		N	M ₂		03	50	13	11.5				
		N	F ₂		50	-						
1	March 2	E	iSS	22	05	24	11	3		+ + + +	U.S.C.G.S.: 50°N, 31°W	
		N	e		06	34						
		E	i		07	15						
		NE	M		08	05						
		E	F		18	-						
2	4	E	L	16	32	40	12				B.C.I.S.: 72°N, 0°	
		NE	M		34	00						
			F		36	-						
3	5	NE	iSKKS	14	15	01	15			+ + - - - -	U.S.C.G.S.: 1°N, 129°E eN 28m 28s	
		E	eS		15	37						
		E	i		16	10						
		E	iPPS		19	00						
		E	eSS		23	10						
		E	eSSS		27	20						

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No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Dir ⁿ of Motion	Remarks Time of origin
				h.	m.	s.					
	March								N E		
	5	(contd.)									
		NE	eL	14	37	-					
		E	M ₁	47	24	25	74				
		N	M ₁	47	35	25	57				
		E	M ₂	49	29	25	74				
		N	M ₂	50	27	27	54				
		F		15	50	-					
4	5	E	e	16	04	10			+		
		E	M	13	05	15	2			Very slight.	
		F	F	17	-	-				No readable effect on N-	
5	6	E	e	04	40	10			+	U.S.C.G.S.: 24°N, 108°W	
		NE	i, e	43	00				+ -		
		N	i	54	39				+	Slight effect, and no	
		E	i	56	49				+	definite maxima	
		N	i	05	03	00			-		
		F	F	30	-	-					
6	7	E	e	06	24	24			+	U.S.C.G.S.: 52°N, 153°E	
		N	i	35	53				+	Very slight effect	
		F	F	55	-	-					
7	8	N	iPP	16	55	38			-	U.S.C.G.S.: 16 ¹ / ₂ °S, 168 ¹ / ₂ °E	
		N	iSKP	56	15				-		
		E	i	57	12				+		
		N	iPPS	17	08	00			+	No definite maxima.	
		E	iSS	13	38				+	Obscured by microseisms.	
		E	iSSS	19	20				+		
		F	F	18	22	-					
8	12	NE	eS	12	02	37			-	U.S.C.G.S.: 42°N, 21°E	
		N	e	04	09				-		
		E	i	06	34				+		
		E	M	07	27	10	9				
		N	M	08	56	11	9				
		F	F	25	-	-					
9	12	E	i	20	52	07		125°	+	U.S.C.G.S.: 6°S, 152°E	
		N	eSKP	52	52				-		
		E	iPPP	53	50			13890 Km	+		
		N	iSKS	56	27				-		
		N	ePS	21	01	32			+		
		N	eSS	08	12				-		
		E	eSSS	13	07				-		
		NE	L	33	-						
		N	M	41	17	20	2.5				
		E	M	47	12	20	2.5				
		F	F	22	06	-					
10	20	NE	iP	17	19	41		78.5°	+	U.S.C.G.S.: 40°N, 143 ¹ / ₂ °E	
		NE	i	20	07				+		
		N	iPP	22	38			8720 Km	-	Ei 22m 06s	
		E	iPPP	24	03				+	Ni 24m 31s	
		E	eS	29	26				+		
		NE	i	29	37				+		
		N	iPS	29	56				+		
		NE	i	31	05				+		
		N	iSS	34	46				-		
		E	iSSS	37	46				+		
		E	L	42	-						
		E	M ₁	46	21	35	636				
		N	L	48	-						

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No	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. "	Δ° km.	Dir ⁿ of Motion	Remarks Time of origin
	March							N E	
	20	(contd.)							
		N	M	17 56 06	17	220			
		E	M ₂	56 56	18	378			
			F	20 35 -					
11	21	E	e	01 01 50				+	U.S.C.G.S.: 39 ¹ / ₂ N, 143 ⁰ E
		E	L	11 -					Light failed on N-S.
		E	M	22 19	20	11			Confused by shaking of
			F	02 15 -					building.
12	23	E	i	00 40 38			79.5 ⁰	+	U.S.C.G.S.: 39 ¹ / ₂ N, 143 ⁰ E
		N	i	41 01			8835 Km	+	
		NE	iS	45 41				-	
		N	i	46 51				-	
		E	iSS	50 49				-	eN 51m 11s
		N	iSSS	54 11				+	
		E	M ₁	01 02 07	40	122			
		NE	L	07 -					
		N	M	10 50	20	71			
		E	M ₂	11 15	19	94			
			F	02 33 -					
13	23	E	iS	22 44 51			79.5 ⁰	-	U.S.C.G.S.: 39 ¹ / ₂ N, 143 ⁰ E
		E	eSS	50 01				+	
		E	e	23 00 -			8835 Km	+	
		E	L	08 00					N-S compt. too faint.
		E	M ₁	10 26	20	13.5			
		E	M ₂	15 11	25	6.5			
			F ²	43 -					
14	28	E	i	00 32 52				+	U.S.C.G.S.: 77 ⁰ / ₂ N, 82 ⁰ W
		NE	iS	35 46				-	
		E	e	37 40				+	
		N	e	48 28				+	No definite max. on N-S
		E	M ₁	51 34	20	4			
		E	L	01 00 30					
		E	M ₂	08 12	16	3.5			
			F	13 -					
15	28	E	e	20 55 55				+	
		E	M	57 30	15	3			
		N	LM	58 -)					
				21 02 -)					
16	29	NE	i, eSKP	06 53 51			139.5 ⁰	+	U.S.C.G.S.: 17 ⁰ S, 167 ⁰ E
		N	i	59 02				+	eE 59m 21s
		N	iSKKS	07 00 16			15500 Km	+	
		E	ePPS	05 40				+	
		NE	e	12 35				-	
		E	eSSS	16 32				+	iN 16m 22s
		E	M	30 20	50				
		NE	L	38 -					
		E	M	42 52	21	9			
		N	M	43 06	22	10			
			F	09 00 -					
17	29	E	i	12 31 30				+	
		E	M	39 00	20	8			
		N	M	41 20	12	8			
			F	52 -					

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No	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. "	Δ° km.	Dir ⁿ of Motion	Remarks Time of origin
18	March 29	E N E	e LM M F	23 23 - 20 - -30 - 26 20 30 -	20	2.5		N E	U.S.C.G.S.: 6°S, 147°E
19	30	N E E N	i e M M F	13 02 58 04 00 05 37 07 23 13 -	13 15	2.5 2.5		+ +	
20	31	N E N E	e e M M F	20 29 10 34 - 39 12 40 08 59 -	16 15	3.5 3		-	

A.E.M. Geddes

Natural Philosophy Department,
The University,
Aberdeen.

Dr. Higgins Km.

SEISMOLOGICAL BULLETIN

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

APRIL - JUNE 1960

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	18.1 mm.	E-W	1.11.58
E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	N-S	1.11.58

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. ..	Δ° km.	Dir ⁿ of Motion	Remarks Time of origin
1	Apr. 1	NE E N	e M M F	14 43 30 46 26 47 06 56 -	20 16	5.5 3.5		N E	U.S.C.G.S.: 49°N, 129 ¹ / ₂ °W
2	2	NE	LM	06 51 - 55 -					U.S.C.G.S.: 18 ¹ / ₂ °N, 143°E Very slight
3	24	E N NE N E E	iSKS i i iPPS eSS iSSS F	03 45 30 47 10 48 54 51 09 55 08 58 14 04 11 -			107.5° 11945 Km	- + - -	U.S.C.G.S.: 6°S, 113 ¹ / ₂ °E Deep focus
4	24	E E NE E E N	eS iSS L M M F	12 30 20 34 18 40 - 43 08 45 50 47 55 13 06 -	22 20	8 11		- + -	U.S.C.G.S.: 20°N, 54 ¹ / ₂ °E Iran shock
5	29	N N N N N N	ePP iSKS ePPS eL M ₁ M ₂ F ²	19 51 08 57 13 20 01 05 25 20 30 28 38 25 56 -	25 25	6.5 4	108° 12000 Km	- + -	U.S.C.G.S.: 0°, 122°E No E-W record available
6	30	N N	e M F	05 00 - 07 00 16 -	20	2.5			U.S.C.G.S.: 0°, 122°E No E-W record
7	May 11	E E E NE E	eS e iSS M M F	19 03 24 08 22 12 07 35 57 37 02 20 04 -	20 25	2.5 6.5	114.5° 12720 Km	- + +	U.S.C.G.S.: 3°S, 131°E Very slight effect on N-S



No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Dir ⁿ of Motion	Remarks Time of origin
				h.	m.	s.					
8	May 12	E	iP	22	44	32	15	1.5	77.6° 8620 Km	N E + + + - + - + - - -	U.S.C.G.S.: 77 ¹ / ₂ ° N, 81° W 54m 27s
		N	i		44	47					
		NE	iS		54	23					
		E	eSS		59	22					
		N	e	23	00	57					
		N	eSSS		03	17					
9	13	E	M		25	07	20	2.5	66.8° 7420 Km	+ + - + - + + - + +	U.S.C.G.S.: 55° N, 161 ¹ / ₂ ° W
		N	F		55	-					
		NE	i	16	18	07					
		NE	iS		26	57					
		NE	i		27	17					
		NE	i, e		28	18					
10	15	N	e		35	07	15	1.5	85° 9445 Km	- + + + - - + + - + + +	U.S.C.G.S.: 24° N, 121 ¹ / ₂ ° E
		NE	M		45	07					
		N	M		46	07					
		N	F	17	31	-					
		N	ePP	13	46	07					
		N	ePS		54	22					
11	18	N	eSSS	14	03	45	22	23	85° 9445 Km	+ + - + + + - - + + - + + + + + + + + + + +	U.S.C.G.S.: 29° N, 130° E
		NE	M		21	02					
		N	F		31	-					
		NE	eP	06	47	46					
		NE	ePP		50	56					
		N	e		56	16					
		NE	i, eSKS		57	57					
		N	iS		58	16					
		N	iSKKS		58	22					
		E	eSS	07	04	16					
		N	eSSS		07	46					
		NE	L		16	-					
12	19	E	M ₁		22	53	15	1.5	+ -	U.S.C.G.S.: 36° N, 71° E	
		N	M ₁		25	22					
		N	M ₂		28	18					
		N	M ₂		31	35					
		E	F ₂	08	25	-					
		NE	iS	02	23	06					
13	19	NE	eSS		27	05	20	8	+ -	U.S.C.G.S.: 17° S, 66° E	
		E	e		35	16					
		N	L		38	46					
		N	M		45	13					
		N	F		48	-					
		E	eP	10	25	33					
14	20	N	e		29	45	20	5	+ + - + - + - + + + + +	U.S.C.G.S.: 28° S, 167 ¹ / ₂ ° E	
		NE	eSKS		35	21					
		N	i		39	50					
		N	i		44	16					
		NE	L	11	08	-					
		N	M		18	16					
14	20	E	M		18	56	20	11	151° 16780 Km	+ + + + - + - + + + + +	U.S.C.G.S.: 28° S, 167 ¹ / ₂ ° E
		N	F	12	07	-					
		NE	ePKP ₁	11	32	23					
		E	iPKP ₂		32	51					
		E	ePP		35	58					
		N	e		42	16					
14	20	N	eSKKS		42	56	20	11	151° 16780 Km	+ + + + - + - + + + + +	U.S.C.G.S.: 28° S, 167 ¹ / ₂ ° E
		N	e		52	26					
		NE	L	12	36	-					
		E	M		43	54					
		E	M		44	06					
		N	F	13	48	-					



KING'S COLLEGE OBSERVATORY, ABERDEEN

No	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. #	Δ° km.	Dir ⁿ of Motion	Remarks Time of origin
				h.	m.	s.					
15	May 21	E N	e LM	06	50	45			N E +	U.S.C.G.S.: 37 ¹ / ₂ ^o N, 21 ^o E	
		E E	e M F		55 59	40 00	15	1.5			
				07	07	-					
16	21	E N	e LM	09	13	05				U.S.C.G.S.: 15 ¹ / ₂ ^o N, 121 ¹ / ₂ ^o E	
		E			14	-					
					-25	-					
			F	15	50	-	15	1.5			
				25	-	-					
17	21	NE E NE NE NE NE E N E E N	eP iPP iPPP iSKS iS iPS iSS iSSS L M M F	10	17	36					U.S.C.G.S.: 37 ¹ / ₂ ^o S, 73 ¹ / ₂ ^o W Chilean shock
					22	06		112 ^o 12445 Km	- - +		
					24	46			- -		
					28	21			- -		
					29	46			+ -	E 30m 00s	
					31	44			+ +		
					37	50			+ -	N 37m 36s	
					41	56			+ +	E 41m 46s	
					57	06					
				11	07	-	16	818			
					08	00	16	473			
				17	15	-					
18	22	I NE	i, ePP	10	49	55					U.S.C.G.S.: 38 ^o S, 73 ¹ / ₂ ^o W
19	22	II NE II E II NE II NE II E II NE II E II NE II E II N	iPP iSKS iS iPS i iSS iSSS i L M M F	10	52	10					U.S.C.G.S.: 37 ¹ / ₂ ^o S, 73 ^o W
					58	16		112.2 ^o 12465	- - - +		
				11	00	00			- +	N 58m 21s	
					01	46			- -		
					02	52			+ -	N 03m 06s	
					07	52			- +		
					11	36			+ +		
					19	56			+ +		
					28	-					
					36	51	20	90			
					37	32	22	72			
				17	00	-					
20	22	E NE NE E NE NE N E E E N N N	eP e, iPP i iPPP iSKS iPS iSS iSSS L M M ₁ M ₂ F	19	10	40					U.S.C.G.S.: 38 ^o S, 73 ¹ / ₂ ^o W Chilean shock
					15	15		112.0 ^o 12445 Km	- - - +		
					15	30			- -		
					17	35			- -		
					21	28			- -		
					24	52			+ +		
					30	40			+ +		
					34	55			-		
				20	00	-					
					19	10	16	1000			
					19	51	22.5	1896			
					29	-	16	913			
				09	00	-					
22		E N E N	M M M M	23	15	-	3 min	1.5mm		Series of very long waves	
					-	35	-	-			
				23	21	-	3 min	1.55mm			
					-	33	-	-			
				23	49	-	3 min	.5mm			
					24	30	-	-			
				24	21	-	3 min	.5mm			
					-	28	-	-			



KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir ⁿ of Motion	Remarks Time of origin
May 23			Recurrence of Maxima					N E	
		E	M	01 29 55	18	9			This period includes a series of after shocks
		N	M	03 36 05	18	11			
		E	M	03 52 13	20	5.5			
		N	M	04 00 15	16	3.5			
		N	M	06 16 50	20	5.5			
		E	M	17 07	20	8			
21	23	E	LM	10 55 -) 11-00 -)					Uncertain through shaking of building.
		E	LM	11 44 -) 12 05 -)					
		N	LM	11 46 - 12 00 -					
22	24	NE	iSKP	15 10 06				- +	U.S.C.G.S.: 44 ¹ / ₂ °S, 167 ¹ / ₂ °E
		E	i	16 00				- -	
		N	i	17 00				- -	
		N	i	20 45				+ +	
		NE	i, ePSKS	22 11				+ +	
		N	i	24 06				- -	
		E	e	30 05				- -	
		N	e	34 42				- -	
		N	L	16 07 30				- -	
		E	L	10 15				- -	
		N	M	20 00	25	9		- -	
		E	M	20 40	20	11		- -	
			F	17 16 -				- -	
23	25	NE	e	10 11 25				+ +	U.S.C.G.S.: 45°S, 76°W Off Chilean coast
		N	i	21 10				- -	
		NE	e	24 15				- +	
		NE	L	31 -				- +	
		N	M ₁	37 55	22	26		- -	
		E	M ₁	38 00	20	22		- -	
		E	M ₂	42 30	18	22		- -	
		N	M ₂	42 48	18	27		- -	
			F	11 06 -				- -	
24	26	NE	iP	05 15 12			22.2°	+ -	U.S.C.G.S.: 40°N, 20°E Albanian Shock
		N	iPPP	15 52			2465Km	- -	
		NE	iS	19 10				- +	
		NE	i	20 15				- +	
		N	i	21 30				- -	
		E	i	22 07				- -	
		NE	L	23 30				- -	
		E	M	25 01	12	39		- -	
		N	M	25 04	15	37		- -	
			F	06 03 -				- -	
25	29	NE	iPS	08 08 20				+ +	U.S.C.G.S.: 38°S, 72 ¹ / ₂ °W
		N	e	30 05				+ +	
		E	L	34 50				- -	
		E	M	43 35	20	16		- -	
		N	M	44 25	20	13.5		- -	
			F	09 18 -				- -	
26	31	N	e	03 39 00					U.S.C.G.S.: 46 ¹ / ₂ °W
		N	i	45 50	20	2.5		- -	
			F	04 11 -				- -	



