SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

JANUARY - MARCH, 1962

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	19.1 mm	E-W 1.2.62. (Previous to
E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	N-S 1.2.62. Feb. old constants)

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dirn of Motion	Remarks Time of origin
	Jan.							N E	
1	1/2	E	iS	00 00 56				+	U.S.C.G.S.: 52.4°N, 177.7°E
		E	i	02 41				+	
		E	iSS	05 34				-	
		E	i	10 28				+	
		E	L	27 38					
		E	M	33 16	15	1.5			
			F	44 -					
2	2	NE	e, iS	12 32 36				- -	U.S.C.G.S.: 80.0°N, 24.3°E
		NE	eSS	33 39				- -	N 33m 46s
		E	M	37 29	13	3			
		N	M	37 46	13	3			
			F	49 -					
3	4	E	iPS	04 58 16				+	U.S.C.G.S.: 33.9°N, 135.2°E
		E	eSSS	05 06 31				+	
		E	e	09 46					
		E	L	17 16					
		E	M	22 56	20	5			
			F	46 -					K
4	7	E	iP	10 07 28				-	U.S.C.G.S.: 43.5°N, 17.4°E.
		E	iPPP	07 52				-	
		E	eSS	11 34				+	Early part on N-S lost
		E	i	12 00				+	during changing of charts.
		E	L	13 30					
		E	M_1	14 20	15	35			
		N	M	16 32	10	23			
		E	M_2	18 49	10	28			
			F	32 -					
5	8	E	L	01 29 50					U.S.C.G.S.: 18.5°N, 70.5°W
		E	M	31 54	22	39			Obscured by microseisms.
			F	42 -				K	
6	11	E	iP	05 09 03				-	U.S.C.G.S.: 43.5°N, 17.7°E.
		E	iPPP	09 37				-	
		E	L	14 31					Obscured by microseisms.
		E	M_1	15 50	7	22			
		E	M_2	18 40	10	27			
			F	27 -					
7	19	E	i	19 47 46				-	B.C.I.S.: 38½°N, 22.0°E.
		N	i	47 54				-	
		N	i	52 21				-	
		E	M	54 04	20	27.5			No definite max. on N-S.
			F	56 -					Obscured by microseisms.

No. 2

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h.	m.	s.	Period sec.	Ampl. mm	Δ° km.	Directions of Motion N	E	Remarks Time of Origin
	Jan.											
8	19	E	e	22	28	28					+	U.S.C.G.S.:38.2°N, 22.1°E
		N	i		30	46				+		
		E	LM		32	-)						
				-	37	-)						Obscured by microseisms.
		N	LM		34	-)						
				-	38	-)						
9	26	E	iP	08	23	28			27.1°		-	U.S.C.G.S:35.1°N, 22.7°E
		E	eS		28	08			3010Km		+	
	✓	N	e		28	38				-		
		N	L		32	25						
		NE	M		35	48	16	22				
			F		54	-						
	Feb.											
10	3	E	iS	01	05	44					+	U.S.C.G.S:1.2°S, 137.8E
		E	iPPS		07	54						
		N	M_1		39	14	20	5.5				
	✓	E	M_1		39	44	22	10				
		E	M_2		46	09	20	13.5				
		N	M_2		46	24	20	5.5				
			F		57	-						
11	14	E	eP	06	50	46			112.5°		-	U.S.C.G.S:38.1°S, 73.1°W
		E	iPP		55	26			12500Km		+	Chile
		E	iPPP		57	41					+	
		NE	iSKS	07	01	36				+	+	
		NE	iPS		04	54				+	+	
		NE	iPPS		06	10				-	-	
		NE	iSS		11	11				-	+	
		E	i		14	41					-	
		E	iSSS		15	28					-	
	✓	N	i		19	06				+		
		E	i		23	41					+	
		E	L		30	56						
		N	L		34	06						
		E	M		40	34	18	138				
		N	M		41	16	20	104				
			F	09	02	-						
12	20	N	e	22	34	35				-		Shillong 26°N, 96°E)
		N	e		38	15				+		E-W trace too faint)
	×	N	M		43	06	20	8				to decipher)
			F		57	30						
13	25	N	eSKS	06	32	48				+		U.S.C.G.S.:15.4°S,
		N	e		40	12				-		167.8°E
	×	N	e		44	15				-		Very slight effect
			F	07	20	-						
14	26	N	eL	03	18	40						U.S.C.G.S.:9.3°S, 152.8°
	×	N	e		30	20						
			F	06	-	-						
15	27	E	i	13	27	26					-	U.S.C.G.S:37.4°S, 73.2°W
	×	N	i		27	37				-		
		N	L		42	00						
		N	M		44	34	18	11				
		NE	M		46	20	18	5.5				Chile
			F	14	02	-						
	Mar.											
16	6	E	e	06	44	35					-	U.S.C.G.S.:13.7°N, 93.7°E
	×	E	e		49	55					+	
		N	Traces		46	-)						
					54	-)						
			F		55	-						

M/D. 2781-61

No. 3

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Directions of Motion N	Directions of Motion E	Remarks Time of Origin
	Mar.									
17	7	E	iP	02 10 38					-	U.S.C.G.S: 62.2°N, 26.6°W
		E	i	14 15					-	
		E	i	14 43					+	
		E	i	16 41					-	
		N	i	17 03				-		
			F	24 -						
18	11	E	iSKS	19 43 33			101.9°		+	U.S.C.G.S.:9.0°N, 126.7°E
		E	iPPS	46 58			11320 Km		+	
		E	eSS	51 48					+	N o N -S record
		E	eL	20 10 -						available
		E	M	22 38	20	13.5				
			F	46 -						
19	12	E	iPP	11 55 18			78.3°		-	U.S.C.G.S.:8.1°N, 83°W
		E	iPPP	57 03			8700Km		+	
		NE	iS	12 02 18				-	-	T_o = 11h 40m 23s
		E	i	04 35					+	
		E	eSS	07 33					-	
		N	i	08 25				+		
		E	eL	16 45						
		E	M_1	17 23	35	52				
		E	M_2	24 50	15	10				
		N	M	28 33	15	6				
			F	54 -						
20	14	E	e	08 53 48						
		NE	LM	09 28 -					+	U.S.C.G.S.:8.8°N, 126.8°E.
				- 38 -						
21	17	NE	iP	20 57 15						
		E	i	58 47			55.2°	-	-	U.S.C.G.S.:10.6°N, 43.7°W
		NE	iS	21 04 57			6135Km		-	
		N	i	05 12	10	38		-	+	
		E	iSS	08 42				-		
		E	M	12 25	16	82			-	iN 09m 08s.
		N	M	12 32	18	64				
			F	23 08 -						
22	22	NE	ePP	15 33 22						
		E	ePPP	35 52			119.5°	+	+	U.S.C.G.S.:3.2°S, 142.3°E.
		E	eSKS	38 52			13280Km		-	
		E	eS	41 07					+	
		NE	ePS	42 54					-	
		E	eSS	49 37				-	-	
		N	e	52 57				+	+	eN 49m 42s
		NE	e	16 03 27				+		
		E	L	11 27				+	-	
		N	L	12 52						
		N	M	24 07	20	5.5				
		E	M	26 00	20	22				
			F	17 35 -						
23	24	NE	ePP	13 19 59						
		E	ePPP	22 29				-	+	U.S.C.G.S.:5.7°S, 145°E.
		E	eSKS	25 09					-	
		E	eS	27 44					+	
		E	ePS	29 59					+	Effects slight especially
		E	ePPS	30 49					+	on N-S.
		N	eSS	36 37				+		
		E	eL	59 49					+	
		E	M_1	14 04 55	25	4				
		E	M_2	14 55	18	3.5				
			F	24 -						

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SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. mm	Δ° km.	Directions of Motion N E	Remarks Time of Origin
	Mar.							N E	
24	26	N	eL	17 35 24				+	U.S.C.G.S:40.6°,72.3°W
								+	No E-W record available
		N	e	41 39					
		N	L	43 29					
		N	M	45 54	18	4.5			
			F	51 -					
25	28	NE	Traces	14 37 -					U.S.C.G.S:19.4°,108.6°W
				- 49 -					

Natural Philosophy Department,
University,
Aberdeen.

A. E. M. Geddes

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

APRIL - JUNE, 1962

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	19.1mm.	E-W 1.2.62
E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	N-S 1.2.62

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	Apr. 10	N	iP	21 42 29			24.5°	N E	No E-W records available during April and May
		N	i	42 50			2720 Km	- -	U.S.C.G.S:37.9°N,20.1°E
		N	iS	46 45				+	T_o = 21h,37m 11s
		N	i	46 54				+	
		N	i	50 47				+	
		N	M	52 02	16	22			
		N	i	22 16 47					
			F	27 -					
2	11	N	eP	10 52 36			24.5°	-	B.C.I.S.:38¼°N, 19¾°E
		N	eS	57 10			2720Km	+	
		N	e	59 31				-	
			F	11 02 -					
3	12	N	iP	01 04 56			80.2°	+	U.S.C.G.S.:38.2°N,142.3°E
		N	i	06 53			8910 Km	-	
		N	ePP	08 01				+	T_o = 00h 52m 47s
		N	iPPP	09 46				-	
		N	i	11 16				-	
		N	iS	15 01				+	
		N	iPS	15 51				-	
		N	eSS	20 21				-	
		N	eSSS	23 41				+	
		N	L	32 45					
		N	M1	36 58	27	59			
		N	L	38 56					
		N	M2	42 48	18	38			
		N	M3	45 38	15	22			
			F	03 54 -					
4	15	N	eS	19 03 37				+	U.S.C.G.S.:2.9°S,11.9°W
		N	eSS	07 57				+	
		N	eSSS	09 54				+	
		N	L	22 -					
		N	M	26 47	20	2.5			
5	16	N	eP	13 32 48			87.1°		U.S.C.G.S.:30.6°N,140.6°E
		N	ePP	36 48			9680 Km		
		N	eSKS	43 12					
		N	iS	43 28					
		N	e	47 40					
			F	57 -					

No. 2

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. mm	Δ° km.	Direction of Motion N E	Remarks Time of Origin
6	Apr. 17	N	e	11 39 31				N +	B.C.I.S.: 39°N, 18¼°E
		N	e	42 28				+	
		N	L	44 44					
		N	M	48 13	15	1.5			
			F	12 02 -					
7	17	N	eS	22 53 03				-	U.S.C.G.S.: 1.5°S, 14.9°W
		N	e	58 29				-	
		N	e	23 05 08				+	
		N	L	07 38					
		N	M	13 58	15	1.5			
			F	22 -					
8	18	N	eSKS	19 38 09			91.4°	+	U.S.C.G.S.: 10.0°S, 79.0°W
		N	iSKKS	38 32			10155 Km	+	
		N	i	39 00				+	
		N	ePS	39 50				+	
		N	eSS	45 00				+	
		N	e	46 58				-	
		N	L	20 01 40					
		N	M	09 53	20	2.5			
			F	37 -					
9	19	N	e	23 47 38				-	U.S.C.G.S.: 69.8°N, 138.6°E
		N	e	52 38				-	
			F	24 26 -					
10	20	N	eP	05 58 23			62.1°	+	U.S.C.G.S.: 20.6°N, 72.2°W
		N	iS	06 06 38			6900 Km	-	
		N	iPS	07 00				+	
		N	iSS	10 34				+	
		N	eSSS	13 33				-	
		N	M_1	15 18	20	11			
		N	eL	16 08					
		N	M_2	20 23	17	6			
			F	57 -					
11	23	N	iP	06 09 57			76.5°	-	U.S.C.G.S.: 42.9°N, 143.4°E
		N	i	10 22			8500 Km	+	
		N	iPP	12 48				+	T_o = 05h 58m 05s
		N	iS	19 39				+	
		N	iPS	20 17				-	
		N	i	21 25				-	
		N	eSS	24 37				+	
		N	i	29 47				+	
		N	L	34 41					
		N	M_1	41 37	25	22			
		N	M_2	44 37	23	33			
			F	07 40 -					
12	25	N	i	04 51 57				+	U.S.C.G.S: 45.3°N, 5.2°E
		N	i	53 29					
			F	59 -					
13	25	N	eP	15 59 37			81.0°	+	U.S.C.G.S.: 38.4°N, 142.5°E
		N	ePP	16 02 32			9000 Km	+	
		N	iS	09 47				-	
		N	i	10 52				+	
		N	e	15 32				+	
		N	L	31 -					
		N	M	39.44	18	4.5			
			F	17 10 -					

No. 3

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h.	m.	s.	Period sec.	Ampl. mm	Δ° km.	Direction of Motion N	E	Remarks Time of Origin
	Apr.											
14	27	N	Traces	07	47	-)						U.S.C.G.S.: 44.4°S, 74.8°W
				08	06	-)						
15	28	N	iPPP	11	25	48				+		U.S.C.G.S.: 36.4°N, 26.6°E
		N	eS		29	42				+		
		N	eSS		31	01				-		
		N	L		37	26						
		N	M		39	54	12	5.5				
			F	Lost in succeeding shock								
16	28	N	e	12	52	37				-		U.S.C.G.S.: 36.3°N, 26.7°E
		N	eS		54	36				-		
		N	e		57	30				+		
		N	L	13	02	20						
		N	M		04	53	9	1.5				
			F		20	-						
17	30	N	eP	02	38	31			79.2°	+		U.S.C.G.S.: 38.8°N, 140.9°E
		N	ePP		41	26			8790Km	-		
		N	eS		48	31				+		
		N	e		49	31				+		Deep focus
		N	eSS		53	08				-		
		N	eSSS		56	51				-		
		N	L	03	08	53						
		N	M		11	48	18	2				
			F		42	-						
18	30	N	ePPS	16	51	31				-		U.S.C.G.S.: 17.9°S, 176.1°W
		N	eSS		57	46				-		
		N	eSSS	17	02	26				+		
		N	L		24	36						
		N	M		32	51	20	2.5				
			F		43	-						
19	30	N	iP	23	54	10				-		B.C.I.S.: 73.7°N, 7.0°E
		N	iPP		54	32				+		
		N	L		58	36						
		N	M		59	41						
			F	24	09	-						
	May											
20	6	N	Traces	12	30	-						
					35	-						U.S.C.G.S.: 20.8°S, 178.7°W
21	6	N	ePKP	19	19	26			122.4°	+		U.S.C.G.S.: 60.0°S, 32.8°W
									13600Km			
		N	eSKP		22	08				+		
		N	ePPP		23	08				-		T_o = 19h 00.3m
		N	e		24	33				+		
		N	eSKS		25	53				-		
		N	iS		28	48				+		
		N	ePS		30	38				+		
		N	e		33	43				-		
		N	eSS		36	38				+		
		N	eSSS		40	58						
		N	L		57	-						
		N	M	20	03	55	20	2.5				
			F	21	25	-						

No. 4

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Direction of Motion N E	Remarks Time of Origin
22	May 7	N	iP	17 51 36			75.0°	+	U.S.C.G.S.: 45.3°N, 146.7°E
		N	ePP	54 23			8335Km	+	
		N	iPPP	56 00				−	T_o = 17h 39m 52s
		N	iS	18 01 03				−	
		N	eSS	06 08				+	
		N	eSSS	09 23					
		N	L	17 -					
		N	M_1	25 59	18	11			
		N	M_2	33 54	11	9			
			F	19 20 -					
23	11	N	eP	14 24 01			88.0°	+	U.S.C.G.S.: 17.0°N, 99.7°W
		N	i	24 41			8890 Km	−	
		N	ePP	26 58				+	
		N	ePPP	28 54				+	
		N	iS	34 08				+	
		N	iPS	34 43				−	
		N	e	41 58				+	
		N	L	49 30					
		N	M	57 06	25	65			
			F	16 32 -					
24	21	N	iP	12 13 26			63.9°	+	U.S.C.G.S.: 37.3°N, 96.0°E
		N	i	13 31			7100Km	−	
		N	iPP	15 46				+	T_o = 12h 02m 56s
		N	iPPP	17 14				−	
		N	iS	22 01				+	
		N	iPS	22 44				+	
		N	i	24 29				+	
		N	iSSS	28 26				−	
		N	L	32 -					
		N	M_1	39 28	17	60			
		N	M_2	43 41	15	61			
			F	13 31 -					
25	21	N	iPKP	21 34 26			14.3°	+	U.S.C.G.S.: 20.0°S, 177.5°W
		N	i	34 40			15890Km	+	
		N	iPP	37 41				−	
		N	i	39 18				+	Deep focus
		N	iSKKS	44 26				+	
		N	iPSKS	47 26				+	
		N	L	22 22 -					
		N	M	34 06	20	13.5			
			F	55 -					
26	22	N	Traces	08 34 -					U.S.C.G.S.: 10.2°S, 161.5°E
				09 00 -					
27	24	N	e	23 55 15				−	
			F	24 11 -					
28	25	N	e	00 57 05				−	U.S.C.G.S.: 58.6°N, 31.5°W
		N	M	58 48	11	2			
			F	01 08 -					
29	25	N	M	01 15 54	13	1.5			U.S.C.G.S.: 59.0°N, 31.2°W
			F	20 -					
30	25	N	Traces	04 55-					U.S.C.G.S.: 20.7°S, 174.3°W
				59 -					

No. 5

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h.	m.	s.	Period sec.	Ampl. μ	Δ° km.	Direction of Motion N	E	Remarks Time of Origin
	May											
31	30	N	eS	10	16	16			38.6°	-		U.S.C.G.S: 30.3°N, 42.4°W
		N	eSSS		19	13			4290 Km	-		
		N	M		24	18	12	2.5				
			F		28	-						
32	31	N	e	06	40	17				+		U.S.C.G.S.: 22.1°N, 142.6°E
		N	e		42	11				+		
		N	ePP		46	08				+		
		N	ePPP		48	11				+		Phases doubtful through
		N	eSKS		52	16				+		shaking of building
		N	e		53	42				+		
		N	e		59	13				+		
		N	e	07	12	36				-		
		N	L		22	16						
		N	M		32	30	30	9				
			F	08	11	-						
	June											
33	2	NE	i, eS	12	45	35			65.5°	+	+	U.S.C.G.S.: 49.8°N, 129.8°W
		E	e		59	24			7280Km		+	
		N	e		59	34				-		
		N	M	13	04	30	15	2.5				
		E	M		04	34	14	3				
			F		18	-						
34	2	E	e	17	58	34					+	U.S.C.G.S.: 29.8°N, 130.6°E
		N	e	18	01	20				-		
		N	M		06	32	25	9				
		E	M		09	53	17	4				
			F		28	-						
35	3	N	ePP	15	12	33			46.6°	+		U.S.C.G.S.: 22.4°N, 45.2°W
		N	iS		17	48			5180 Km	+		
		N	M		26	23	16	5.5				
			F	16	20	-						
36	4	N	M	05	42	00	18	4.5				U.S.C.G.S.: 43.0°N, 15.8°E
			F		44	-						
37	11	NE	iP	07	20	01			19.2°	-	+	U.S.C.G.S.: 43.5°N, 18.3°E
		NE	iS		23	30			2135 Km	+	+	T_o = 07h 15m 41s
		E	iSS		24	22					+	
		NE	L		25	11						
		E	M		27	26	17	20				
		N	M		29	28	18	29				
			F	08	09	-						
38	14	E	eS	08	12	02					+	U.S.C.G.S.: 54.3°N, 169.1°E
		E	eSSS		19	03					-	
		E	e		22	10					+	
		E	L		31	05						Two shocks: separation
		E	M		35	05	15	1.5				of phases doubtful
			F	Lost in following shock								
39	14	N	eS	08	16	00				-		U.S.C.G.S.: 54.2°N, 169.3°E
		N	eSS		20	00				-		
		N	e		25	25				+		
			F	Lost in following shock								
40	14	NE	LM	08	59	-						U.S.C.G.S: 19.4°N, 65°W
				09	05	-						
		E	M		04	39	15	1.5				
			F		22	-						

No. 6

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Direction of Motion N	Direction of Motion E	Remarks Time of Origin
41	June 14	N	eS	22 36 25						
		N	eSSS	44 35				-		U.S.C.G.S.: 26.4°N, 126.5°E
		N	eL	53 15				-		Early portion on E-W
		E	e	23 00 10				-		doubtful
		E	M_1	03 16	20	2.5			+	
		N	M	09 15	15	2.5				
		E	M_2	10 15	15	3				
		F		25 -						
42	21	E	e	05 15 03					+	U.S.C.G.S.: 57.0°N, 82.6°W
		N	e	20 20				-		
		N	M	25 15	20	2.5				
		E	M	31 00	15	1.5				
		F		39 -						
43	23	NE	eSKS	10 07 53			87°	+	+	U.S.C.G.S.: 25.7°N, 128.5°E
		NE	iPPS	09 29			9665 Km	+	+	
		E	e	13 58					+	
		N	i	21 00				+		
		E	i	22 18					+	
		NE	L	28 30						
		E	M	32 24	25	39				
		N	M	34 06	22	20				
		F		11 15 -						
44	25	N	eP	11 22 56			86.4°	+		U.S.C.G.S.: 24.3°N, 122.6°E
		NE	e	23 09			9600 Km	·	+	
		NE	eS	33 32				-	-	
		E	ePS	34 41					+	
		NE	eSS	39 26				-	-	
		N	eSSS	43 18						
		E	L	57 -						
		N	M	12 06 18	17	50				
		E	M	06 32	16	34.5				
		F		57 -						
45	30	N	e	20 20 03						
		N	M	22 10	22	5		-		U.S.C.G.S.: 16.5°N, 122.0°E
		F		38 -						No E-W effect

Natural Philosophy Department,
The University,
Aberdeen.

A. E. M. Geddes.

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

JULY - SEPTEMBER, 1962

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	19.1mm	E-W 1.2.62
E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	N-S 1.2.62

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir^{n} of Motion N E	Remarks Time of origin
	July								
1	1	E	e	21 47 08				-	U.S.C.G.S.: 40.0°N, 75.4°E
		N	e	47 27				-	
		E	e	51 27					
		N	e	55 05					
		E	M	55 42	15	3			
			F	22 05 -					
2	3	E	i	18 40 50				-	U.S.C.G.S.: 56.3°S, 142.5°W
		N	i	41 30				+	
		E	eL	19 37 40					
		N	eL	39 30					
		N	M	48 00	20	2.5			
		E	M	51 36	17	2			
			F	59 -					
3	4	E	eP	07 19 53			79.9°	+	U.S.C.G.S.: 14.3°N, 93.2°W
		E	eS	29 56			8880 Km	+	T_o = 07h 07m 45s
		E	e	31 11				-	No N-S record
		E	eSS	35 00				+	No definite maximum
		E	eSSS	38 13				+	
			F	51 -					
4	4	E	L	08 07 32					U.S.C.G.S.: 54.5°N, 36.7°W
		E	M	09 11	15	1.5			
			F	19 -					No N-S record
5	6	NE	iS	02 31 20				+	U.S.C.G.S.: 13.3°N, 58.0°E
		E	eSS	35 30				-	
		N	e	38 55				+	
		N	M	52 20	20	1.5			
		E	M	52 55	20	2.5			
			F	03 09 -					
6	6	N	e	09 20 13			23.6°	-	U.S.C.G.S.: 38.0°N, 20.2°E
		NE	i, eP	21 33			2620 Km	- -	
		NE	i, eS	25 44				+ +	
		NE	iSS	26 55				- -	
		N	L	29 30					
		N	M	30 50	13	13			
		E	M_1	31 00	13	13			
		E	M_2	34 06	13	14			
			F	10 18 -					
7	6	NE	iP	23 14 15			50.7°	- -	U.S.C.G.S.: 36.6°N, 70.4°E
		E	iPP	16 10			5635 Km	+	T_o = 23h 05m 32s
		N	iPPP	17 21				+	

No. 2

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Direction of Motion N	Direction of Motion E	Remarks Time of Origin
July										
7	6	N	iS	21 11				+		
		NE	iPS	22 32				-	-	Deep focus
		NE	i	23 44				+	+	
		NE	iSS	25 18				+	+	
		NE	M_1	26 27	E14	36)				
					N13	55)				
		N	M_2	32 05	6	13				
		E	M_2	34 14	15	22				
		E	M_3	39 45	17	26				
		N	M_3	40 00	17	24				
			F	25 02 -						
8	7	E	eS	06 33 24					+	U.S.C.G.S.:51.3°N,178.6°E
		N	e	33 44				+		
		E	eSS	38 05				+	+	eN 37m 36s
		NE	eL	46 -						
		E	M	57 10	17	2				
		N	M	57 55	18	3.5				
			F	07 43 -						
9	10	E	eP	10 11 38			23.5°		+	U.S.C.G.S.:38.4°N,25.9°E
		N	e	11 56			2610Km	+		
		E	eS	15 48					+	
		N	e	16 54				+		
		E	L	21 00						
		E	M	23 15	15	2				
		N	M	23 58	15	2				
			F	33 -						
10	11	NE	e	01 27 23				+	-	U.S.C.G.S.:31.8°N,66.9°E
		E	L	33 -						
		N	M	39 24	17	2				
		E	M	40 50	16	4				
			F	02 02 -						
11	11	E	e	13 30 18						U.S.C.G.S.:11.9°N,122.1°E
		N	L	31 55						
		E	M	35 18	24	4				
		NE	M	43 15	17	4				
			F	59 -						
12	13	NE	e,iSKS	03 56 10				-	-	U.S.C.G.S.:10.2°N,121.7°E
		E	i	56 27					-	
		N	eS	57 22				-		
		E	e	04 01 52				+	+	eN 02m 02s
		NE	L	25 52						
		E	M_1	29 52	25	4				
		NE	M	36 10	17	3				
			F	48 -						
13	13	E	e	05 01 50					+	U.S.C.G.S.:32.4°S,179.7°W
		NE	e	15 30				+	+	
		NE	L	25 15						
		N	M	32 12	20	2.5				
		E	M	34 02	15	1.5				
			F	06 10 -						
14	14	E	eL	20 18 53						U.S.C.G.S.:40.3°N, 124.4°W
		E	M	23 53	18	2				No N-S record
			F	30 -						

No. 3

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. mm	Δ° km.	Direction of Motion N	Direction of Motion E	Remarks Time of Origin
	July									
15	16	E	Traces	07 20 -						U.S.C.G.S.: 28.2°N, 142.5°E
				-30 -						No N-S record
16	17	N	eP	17 32 12			76.5°	+		U.S.C.G.S.: 43.1°N, 144.5°E
		E	iS	41 57			8500 Km	-	-	iN 41m 52s
		NE	i	42 17				+	+	
		N	L	18 02 02						
		N	M	09 26	17	3				
		E	M	12 05	17	3				
			F	20 -						
17	24	E	eP	21 20 13			79.2°		+	U.S.C.G.S.: 15.5°N, 92.5°W
		E	e	23 25			8800 Km		-	
		N	i	27 48				+		
		E	eS	30 13					-	
		N	iPS	30 53				+		
		E	eSSS	38 13					-	
		NE	L	48 45						
		E	M	54 13	18	4				
			F	22 05 -						
18	25	E	i, P	04 48 53			69.5°		+	U.S.C.G.S.: 18.9°N, 81.1°W
		E	i	50 13			7720Km		+	T_o = 04h 37m 49s
		E	ePPP	53 03					+	
		NE	iS	58 00				+	+	
		N	iPS	58 38				+		
		E	eSS	05 01 53					+	
		N	eSSS	04 48				-		
		NE	L	10 -						
		E	M	13 12	22	26				
		N	M	13 44	20	11				
			F	06 16 -						
19	26	NE	iP	08 26 46			78.1°	-	-	U.S.C.G.S.: 7.5°N, 82.7°W
		NE	i	27 26			8680Km	+	+	
		E	iPP	29 47					+	
		N	i	30 47				-		
		NE	iS	36 40				+	+	
		E	iPS	37 27				-	-	iN 37m 41s
		E	iSS	41 53					-	
		NE	iSSS	45 08				-	-	
		N	L	52 -						
		N	M	57 55	19	54				
		E	M_1	59 33	22	148				
		E	M_2	09 03 42	19	124				
		N	M_2	09 19	16	36				
			F	12 30 -						
20	30	NE	iPP	17 37 00				-	-	U.S.C.G.S.: 3.3°S, 143.9°E
		NE	iPPP	39 45				-	+	
		E	i	41 37			119°		+	iN 41m 44s
		NE	iPS	46 45			13220	13220Km	+	+
		N	iPPS	48 22					+	
		E	e	18 01 40						
		N	M	25 45	20	18				
		E	M	30 40	19	25				
			F	20 14 -						
21	30	NE	iP	20 30 40			75.5°	-	+	U.S.C.G.S.: 5.0°N, 76.3°W
		NE	i	31 20			8390 Km	+	+	
		NE	iS	40 20				-	+	
		N	i	40 23	9	48		-		
		E	i	40 27	8	32			-	
		N	iPS	41 16				+		

M/D. 2781-61

No. 4

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h.	m.	s.	Period sec.	Ampl. mm	Δ° km.	Direction of Motion N	E	Remarks Time of Origin
	July											
21	30 contd.											
		E	iSS	20	45	45				+	-	iN 45m 17m
		E	iSSS		48	55					-	
		NE	L		57	-						
		E	M	21	03	40	19	20				
		N	M		05	05	25	13				
			F	22	52	-						
22	31	N	e	06	00	45				+		U.S.C.G.S.:18.8°N, 120.8°E
		E	e		01	00					+	
		E	M		10	10	20	8				
			F		24	-						
23	31	NE	e	08	12	40				-	-	U.S.C.G.S:40.1°N, 143°E
		E	M		18	50	17	6				
		N	M		23	10	20	16				
			F		27	-						
	August											
24	1	NE	ePP	04	57	17				+	-	U.S.C.G.S.:32°S, 143.7°E
		N	i		59	55				+		
		E	i	05	01	38					-	
		NE	ePS		07	00				+	+	
		N	eSS		13	40				-	-	eE 13m 45s
		E	M		38	45	25	6.5				
		N	M		45	57	27	12				
			F	07	05	-						
25	3	N	iP	09	09	34			97°	+		U.S.C.G.S.:23.2°S, 67.5°W
		N	ePPP		15	32			10780Km	-		
		NE	iSKS		20	02				+	-	
		N	iSKKS		20	47				+		
		N	iPS		22	22				-		
		NE	i		27	22				-	-	
		N	L		42	35						
		E	M		49	52	20	27				
		N	M		50	12	20	5.5				
			F	10	50	-						
26	3	N	eSS	11	23	32				+		U.S.C.G.S.:40.9°N, 73.3°E
		E	e		26	02					+	
		N	L		29	25						
		N	M		35	22	12	2				
		E	M		35	42	12	2				
			F		51	-						
27	5	N	e	09	14	21				+		U.S.C.G.S.:74.2°N, 52 5°E
		N	i		19	36				-		Nuclear explosion
		N	L		24	10						
		E	M		29	29	17	4				
		N	M		29	36	15	3				
			F		37	-						
28	6	NE	i, eP	01	42	41			35.6°	+	+	U.S.C.G.S:32.0°N, 40.8°W
		NE	iPPP		44	20			3955 Km	-	+	
		N	iS		48	20				+	-	iE 48m 17s
		E	iSS		51	07					+	
		N	M		55	55	10	6				
		E	M		56	50	12	8				
			F	02	41	-						

No. 5

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h.	m.	s.	Period sec.	Ampl. μ	Δ° km.	Direction of Motion N	E	Remarks Time of Origin
	August											
29	10	NE	iP	21	07	56			17.4°	+	+	U.S.C.G.S:49.4°N, 27.9°W
		E	eS		11	16			1935 Km	+	+	eN 11m 36s
		NE	L		12	25						
		E	M		15	21	12	7				
		N	M		17	41	13	6.5				
			F		42	-						
30	13	NE	iS	06	58	50				+	+	U.S.C.G.S:2.1°N, 83.5°W
		E	eSS	07	04	10					-	
		N	e		11	30				+		
			F		33	-						
31	17	E	i	05	27	05					+	U.S.C.G.S:10.6°N, 121.6°E
		N	e		32	30				+		
		E	L		53	35						
		NE	M		59	20	E 24	9				
							N 23	7				
			F	06	25	-						
32	19	N	iS	18	42	51				+		U.S.C.G.S:44.6°N, 81.7°E
		N	i		45	21				+		
		N	iSS		46	18				+		No E-W record available
		N	i		48	04						
		N	L		52	21						
		N	M		58	00	15	18				
			F	19	30	-						
33	21	NE	iP	18	13	34				+	+	U.S.C.G.S:41.5°N, 15.4°E
		NE	iS		17	09				+	-	Italian Earthquake
		NE	e		19	10				+	+	
			F	Lost in following shock								
34	21	NE	iP	18	24	05			18.7°	+	-	U.S.C.G.S:41.4°N, 15.5°E
		N	i		26	26			2080Km	-		
		E	iS		27	29				+	+	iN 27m 39s
		E	L		29	50						
		N	M		34	37	10	56				
		E	M		34	39	10	65				
			F	19	45	-						
35	21	NE	eSKS	21	31	05				+	+	U.S.C.G.S:28.7°S, 176.8°W
		E	e		40	00					+	
		N	ePPS		41	05				+		SEE GALAPAGOS QUAKE
		E	e		46	05					+	
		N	iSS		47	26				+		
		N	e	22	02	10				-		
		E	L		17	15						
		E	M		28	13	18	4.5				
		N	M		30	00	18	4.5				
			F	23	22	-						
36	23	E	eP	12	46	54			71.9°		-	U.S.C.G.S:51.7°N, 173.8°E
		E	eS		56	14			7990 Km		-	Very slight
		E	e	13	01	18					+	N-S rendered uncertain
		E	L		09	-						by vibration of
			F		13	-						building.
37	23	N	i	19	49	38				+		U.S.C.G.S:15.6°S, 172.2°W
		E	i		54	09					-	
		E	e	20	03	28						Slight. Phases doubtful
		E	M		07	13	20	4				
		N	M		12	03	15	1.5				
			F		18	-						

No. 6

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h.	m.	s.	Period sec.	Ampl. μ	Δ° km.	Direction of Motion N	E	Remarks Time of Origin
	August											
38	25	E	e	20	10	00						U.S.C.G.S: 36.7°N, 1.6°E
		E	M		10	33	18	2				
		N	Traces		11	-						
					13	-						
39	26	E	L	07	29	00					+	U.S.C.G.S: 34.0°N, 139.2°E
		N	M		37	14	16	2				
		E	M		37	20	19	3.5				
			F		52	-						
40	28	NE	iP	11	05	16			25.6°	-	+	U.S.C.G.S: 38.0°N, 23.1°E
		N	iPP		05	50			2845 Km	+		
		E	i		06	37					+	
		E	i		09	27					-	iN 09m 35s
		E	iS		09	45	9	86				
		N	iSS		10	55				-		No definite maximum
		E	i		11	35					-	on N-S
		E	i		14	00					-	Grecian shock
		E	M		19	08	12	25				
			F	12	30	-						
41	29	NE	eS	23	00	06				+	+	U.S.C.G.S: 34.1°N, 139.1°E
		E	e		03	04					+	
		E	L		16	54						
		N	L		20	24						
		N	M		29	54	16	3.5				
		E	M		32	54	14	2				
			F		57	-						
42	30	NE	iS	13	55	06				-	-	U.S.C.G.S: 41.8°N, 111.8°W
		NE	L	14	10	13						
		N	M		12	58	16	2				
		E	M		14	23	16	3.5				
			F		20	-						
43	31	NE	e	05	37	25				-	-	
		N	e		39	50				-		? Seismic
		E	M		45	00	13	2.5				
		N	M		45	30	23	5				
			F		50	-						
44	31	N	e	17	14	06				+	+	U.S.C.G.S: 51.4°N, 179.7°W
		E	e		18	58				+	+	eN 19m 20s
		N	eS		23	18				-	-	eE 23m 25s
		N	e		39	00				-		
		E	L		44	-						
		N	M		48	24	17	4				
		E	M		49	08	15	2.5				
			F	18	53	-						
	September											
45	1	N	eP	03	57	35			69.7°	+		U.S.C.G.S: 51.3°N, 179.7°W
		NE	iS	04	06	43			7745 Km	-	+	
		NE	e		07	48				-	-	
		N	eSS		11	33				-		
		E	e		17	08					+	
		N	L		30	06						
		N	M		36	10	18	4.5				
		E	M		42	23	17	3				
			F	05	50	-						

No. 7

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Direction of Motion N	Direction of Motion E	Remarks Time of Origin
	Sept.									
46	1	N	iS	08 11 48				+		U.S.C.G.S: 51.3°N, 179.9°W
		N	eSS	16 53				-		
		N	L	27 18						
		E	M	41 08	15	1.5				
		N	M	43 03	18	2				
			F	55 -						
47	1	N	e	15 20 27				+		U.S.C.G.S.: 25.8°N, 65.3°E
		E	eSS	22 43					+	
		N	e	26 55				+		
		E	M	41 06	13	2.5				
		N	M	41 14	18	2.5				
			F	51 -						
48	1	NE	iP	19 28 20			41.9°	+	-	U.S.C.G.S: 35.3°N, 49.7°E
		NE	iPP	29 53			4655Km	-	-	
		NE	i	30 48				-	+	Persian Shock
		NE	iS	34 59				-	-	
		NE	iSS	37 30				+	+	
		E	L	41 -						
		N	M	46 07	18	389				
		E	M	49 43	13	168				
			F	23 05 -						
49	4	E	iS	23 11 36					+	U.S.C.G.S: 39.9°N, 44.2°E
		E	eSS	13 56					-	
		N	L	16 50						
		E	M	23 10	15	1.5				
		N	M	23 16	15	2.5				
			F	38 -						
50	10	N	eS	09 44 16				+		U.S.C.G.S: 35.0°N, 27.1°E
		N	i	46 28				-		
		NE	L	52 25						
		N	M	57 50	15	2.5				
		E	M	58 50	15	3				
			F	10 04 -						
51	12	E	eP	21 06 07					+	U.S.C.G.S: 36.5°N, 69.2°E
		E	iPP	07 52					-	
		N	iS	13 05				-	-	iE 13m 00s
		N	iPS	13 47				-		
		E	eSS	16 45					+	
		E	iSSS	17 55					-	
		N	L	22 10						
		N	M_1	26 15	22	59				
		N	M_2	28 00	25	52				
		E	M	29 22	17	44				
			F	22 10 -						
52	15	E	M	08 22 50	15	1.5				U.S.C.G.S: 74.4°N, 51.5°E
		N	M	22 55	15	1.5				Nuclear Explosion
			F	24 -						
53	15	NE	iP	23 02 24			72.1°	+	+	U.S.C.G.S: 48.5°N, 156.8°E
		NE	iS	11 45			8010 Km	+	+	
		N	iPS	12 26				+		T_o = 22h 50m 55s
		N	iSS	16 44				+		
		E	i	18 11					+	
		N	eSSS	19 42				+		
		E	L	26 14						
		N	M	36 17	17	2				
		E	M	39 06	22	3				
			F	24 09 -						

No. 8

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Direction of Motion N	Direction of Motion E	Remarks Time of Origin
	Sept.									
54	18	NE	eP	00 40 57			79.4°	-	+	U.S.C.G.S: 7.5°N, 82.3°W
		E	iPP	43 50			8820 Km		+	
		N	iS	50 58				+	+	iE 51m 02s
		E	iPS	51 49					+	
		E	iSS	56 18				-	+	iN 56m 02s
		E	iSSS	59 25					-	
		N	M	01 04 13	20	30				
		E	L	05 40						
		E	M	07 04	27	58				
			F	03 03 -						
55	19	N	e	11 10 04				+		U.S.C.G.S: 73.8°N, 53.8°E
		E	e	13 48					+	
		E	L	18 11						
		E	M	21 21	15	3				
		N	M	21 40	13	2.5				
			F	34 -						
56	22	NE	iS	07 12 24				+	+	U.S.C.G.S: 26.5°N, 97.0°E
		N	eSS	17 04				-	+	eE 17m 34s
		N	eSSS	20 40				+		eE 21m 02s
		N	M	32 38	22	11.5				
		E	M	37 06	20	9.5				
			F	08 18 -						

In September a series of seven explosions took place in Nova Zemlya, 74.2°N, 52.7°E. Average bearings.

Time intervals required by maximum effect to reach Aberdeen Station after explosion were:

	Arrival h. m. s.		Detonation h. m. s.	Time Interval m. s.	Period sec.	Maximum Amp. μ
8	10 38 55	-	10 18 03	20 52	12	1
15	08 20 50	-	08 02 14	20 36	15	1.5
16	11 19 48	-	10 59 11	20 37 (approx)	12	1
18	08 49 42	-	08 29 03	20 39 (approx)	12	1
19	11 21 21	-	11 00 56	20 25	15	3
25	21 44 12	-	13 02 32	21 40 (Doubtful owing to shaking of building.		
27	(08 24 04	-	08 03 16	20 48	13	2.5N
	(23 27			20 11	12	2 E

A.E.M.Geddes
Natural Philosophy Department,
The University,
Aberdeen.

M/B. 2781-61

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

OCTOBER - DECEMBER, 1962

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	19.1mm.	E-W 1.2.62
E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	N-S 1.2.62

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir^{n} of Motion N E	Remarks Time of origin
	Oct.								
1	1	NE	Traces	15 58 - 16 03 -					U.S.C.G.S.: 5.5°S, 151.9°E
2	3	NE	L F	01 29 11 Lost in succeeding shock					U.S.C.G.S.: 40.6°N, 29.7°W
3	3	NE E N	L M M F	01 32 10 33 43 33 50 45 -	10 10	1.5 1			U.S.C.G.S.: 40.7°N, 29.7°W
4	4	N NE E	eS L M F	13 33 08 35.7 37 47 42 -	10	1		+	U.S.C.G.S: 40.9°N, 29.5°W
5	4	E E E N	eS L M M F	19 56 07 20 01 10 03 45 04 40 13 -	16 10	2 1		+	U.S.C.G.S: 38.3°N, 22.7°E
6	4	E	e F	23 19 18 26 -					Very slight: N-S component obliterated by shaking of building.
7	6	N N N	iS i M F	03 26 52 28 38 31 39 43 -	16	2		- + +	U.S.C.G.S.: 40.8°N, 29.5°W No E-W record on 6th
8	6	N N	eL M F	04 07 33 10 00 15 -	10	1			U.S.C.G.S: 40.5°N, 29.5°W
9	6	N N N N N N	ePKP e eSKP e e M F	04 43 20 45 42 46 45 05 05 32 31 30 41 15 Lost in succeeding shock	20	5.5		- + + + -	U.S.C.G.S: 17.4°S, 167.7°E
10	6	N N N	eSSS e L	06 11 20 13 35 20 12				- +	

No. 2

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. mm	Δ° km.	Directions of Motion N	Directions of Motion E	Remarks Time of Origin
	Oct.									
10	6 (contd)									
		N	M	25 20	15	2.5				
			F	06 40 -						
11	7	N	e	10 01 20				+		U.S.C.G.S:40.2°N, 29.2°W
		NE	LM	02 20)						
				05 00)						
12	8	N	eP	05 19 28				-		U.S.C.G.S.:40.5°N, 29.2°W
		N	eS	23 40						Phases doubtful
			F	37 -						
13	8	E	P	22 09 00					+	U.S.C.G.S:24.3°N, 121.7°E
		N	iPP	12 14				-		
		NE	iS	19 25				+	-	
		N	i	20 09				-		
		N	iPS	20 39				-		
		NE	e	29 40				-	-	
		N	L	38 15						
		E	M_1	44 03	21	48				
		N	M_1	44 14	20	30				
		NE	M_2	51 52	14	E 26 N 21				
			F	23 40 -						
14	9	NE	e	20 43 18				+	-	U.S.C.G.S:3.2°S, 148.2°E
		E	eS	51 25					-	
		E	eSSS	55 25					-	
		E	e	21 12 10					+	
		N	e	16 40				-		
		E	L	24 00						
		E	M	30 13	20	4				
		N	M	30 43	20	4				
			F	22 01						
15	13	NE	i, e	10 36 14				-	+	U.S.C.G.S:35.5°N, 49.8°E
		N	eS	37 33				-		
		N	i	40 38				+		
		E	L	42 10						
		E	M	54 15	13	2				
		N	M	56 25	13	1.5				
			F	11 06 -						
16	16	N	LM	18 50 -)						
				52 -)						U.S.C.G.S:51.6°N, 175.8°W
17	22	N	e	09 21 40						
		E	M	26 39	15	1.5				
		N	M	27 10	10	1.5				
			F	34 -						
18	25	N	LM	21 40 30						U.S.C.G.S:61.4°S, 154.9°E
				58 -						Confused by large microseisms
	November									
19	3	E	iPP	03 32 10					+	U.S.C.G.S:10.3°S, 117.8°E
		NE	iPPP	34 52						
		E	iSKKS	39 15				+	+	
		N	eS	40 09				+		
			F	48 -						

No. 3

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Directions of Motion N E	Remarks Time of Origin
20	Nov. 4	N	eL	23 47 10					U.S.C.G.S:43.2°S, 75.6°W
		E	e	56 10					
		E	M	24 06 55	15	3			Phases doubtful
		N	M	08 10	13	1			
			F	15 -					
21	11	N	e	11 28 20				-	U.S.C.G.S:23.8°S, 69.4°E
		E	M	36 30	20	2			
		N	LM	30 -)					Slight disturbances
				50 -)					
22	11	N	M	12 06 40	20	1			U.S.C.G.S:55.8°N, 113.1°E
		E	LM	02 40)					
				16 -)					
23	11	E	eL	23 14 20					U.S.C.G.S:43.2°S, 76.0°W
		E	M	24 45	18	2			
		N	M	25 30	18	2			
			F	36 -					
24	16	N	e	08 24 20				-	U.S.C.G.S:32.3°S, 111.1°W
		E	e	27 45					
		E	L	33 30					
		E	M	38 21	20	5.5			
		N	M	43 36	20	4			
			F	48 -					
25	16	E	iS	21 32 33					U.S.C.G.S:13.5°N, 93.2°E
		N	iS	32 46					
		N	eSSS	39 41				-	
		NE	L	50 -				-	
		NE	M	22 01 07	18	11 E)			
						15.5N)			
			F	25 -					
26	23	E	LM	01 24 05)					U.S.C.G.S:15.1°S, 75.3°W
				34 -)					
		N	LM	24 20					
				30 -					
27	26	E	e	05 57 20					U.S.C.G.S:39.8°N, 77.2°E
		NE	e	06 01 30				-	
		N	M	07 10	10	1		+	
		E	M	07 26	10	1		+	
			F	12 -					
28	30	E	eS	22 13 27					U.S.C.G.S:17.4°N, 99.6°W
		E	ePS	14 16				+	
		E	L	31 14				-	
		E	M	38 24	20	2			
		N	LM	36 -)					
				38 -)					
			F	56 -					
	December								
29	1	E	e	02 34 -					U.S.C.G.S:52.4°N, 170.1°W
		E	M	35 20	15	1			
		N	LM	35 -)					
				36 -)					
			F	41 -					

No. 4

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Comot	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Directions of Motion N	Directions of Motion E	Remarks Time of Origin
	Dec.									
30	2	N	e	22 32 35				-		U.S.C.G.S:35.8°N, 50.1°E
		N	L	42 20						No effect on E-W record
		N	M	50 00	15	1.5				
			F	55 -						
31	7	NE	iS	14 25 49				+	-	U.S.C.G.S:29.2°N,139.2°E
		E	i	26 20					+	
		NE	iPS	28 42						Phases doubtful through
		NE	i	31 50				-	-	shaking of building
		N	L	46 15				-	+	
			F	15 26 -						
32	8	NE	iS	21 49 33				-	-	U.S.C.G.S:25.8°S,63.4°W
		N	i	50 20				-		
		E	ePS	52 22					-	Deep focus
		NE	e	53 40				-	-	
		N	eSSS	22 00 24				+		
		E	L	13 24						
		E	M	24 20	20	5.5				No definite max. on N-S
			F	36 -						
33	21	NE	e,i	09 02 34				+	+	U.S.C.G.S:52.4°N,168.5°W
		N	iS	03 24				-		
		NE	i	04 02				-	+	
		E	iSS	07 26					+	
		N	iSSS	10 40				+		
		N	i	21 06				-		
		E	i	25 09					-	
		E	M	30 36	15	19				
		N	M	31 30	15	32				
			F	10 54 -						
34	22	NE	i,eS	15 41 07				+	+	U.S.C.G.S:52.5°N,168.8°W
		N	i	49 16				+		
		E	e	51 19					-	
		E	L	16 02 14						
		N	L	04 05						
		E	M	08 04	15	18				
		N	M	09 14	15	14.5				
			F	52 -						
35	24	N	eS	11 27 14				-		U.S.C.G.S:73.6°N,57.5°E
		N	M	29 19	25	3				
		E	i	31 39					-	Nuclear explosion
		N	M	32 54	15	6.5				
			F	38 -						
36	26	E	iS	09 06 02					-	U.S.C.G.S:39.3°N,10.6°W
		N	i	06 19				-		
		E	iSS	06 38					+	
		E	L	07 33						
		N	i	10 00				-		
		E	M	10 50	12	4				
		N	M	11 34	12	1.5				
			F	22 -						
37	26	N	iP	22 36 21			69.2° 7690Km	+		U.S.C.G.S:53.9°N ,168.7°W
		N	iPP	39 00				-		
		N	i	41 17				-		T_{oiE} = 22h 25m 16s
		N	iS	45 26				-		45m 21s
		E	iPS	46 14					+	
		NE	eSS	50 09				-		
		NE	L	23 00 -						

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T. h.	m.	s.	Period sec.	Ampl. μ	Δ° km.	Directions of Motion N	E	Remarks Time of Origin
	Dec.											
37	26 (contd.)											
		N	M_1	23	04	34	20	12				
		E	M_1		07	19	16	7				
		N	M_2		12	40	15	6.5				
		E	M_2		14	24	18	13				
			F	24	20	-						
38	29	N	e	11	18	09				+		U.S.C.G.S: 20.0°S, 69.9°W
		E	e		18	19					+	
		NE	L		26	-						
		N	M		31	24	20	4				
		E	M		32	24	21	7.5				
			F		56	-						
39	29	N	e	16	12	14				+		
		E	e		12	56					-	
		E	L		17	50						
		NE	M		20	20	20	2.5				
		E	M		24	14	18	2				
			F		31	-						
40	31	E	i	08	19	54					-	U.S.C.G.S: 52.5°N, 160.8°E
		N	I		20	24				+		Phases doubtful: building shaking.
		E	eSS		25	34						
		E	LM		30	-						
					34	-						

Natural Philosophy Department,
The University,
Aberdeen.

A. E. N. Geddes