

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN



January, 1959

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	E-W	1.11.58
E	1 lb.	10 sec.	20 : 1	150	19.0 mm. N-S	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
Jan.									
1	1	E	e F	09 08 15 19 -				N E	U.S.C.G.S.: 8 ¹ / ₂ °S, 177°W Very slight
2	1	E N	e e F	15 11 20 31 - 16 16 -					? Seismic Large microseisms throughout Jan. 2.
3	8	N N	i i F	01 52 05 59 44 02 15 -				- +	U.S.C.G.S.: 15 ¹ / ₂ °N, 61°W E-W record too faint to read
4	9	NE	LM	02 10 - -25-					B.C.I.S.: 36 ¹ / ₂ °N, 23°E. Traces only
5	16	NE	LM	02 15 - -25-					U.S.C.G.S.: 52 ¹ / ₂ °N, 171°W Traces
6	16	E N E	eL M M F	17 23 35 28 43 30 25 39 -	16 16	2 3.5			U.S.C.G.S.: 52°N, 131 ¹ / ₂ °W Large Microseisms throughout Jan. 22.
7	22	N N N N N N N N N	iP iPP iS iPS e L M M M F	05 22 50 26 05 33 05 34 21 38 15 51 20 54 38 59 57 06 02 47 45 -			82.2° 9135 Km	- - + +	U.S.C.G.S.: 36°N, 142°E No E-W record available
8	24	N N N N	iS iSS L M F	20 05 00 05 57 07 15 09 08 21 03 -	12.5	16	24.5° 2720 Km	- -	U.S.C.G.S.: 37 ¹ / ₂ °N, 24 ¹ / ₂ °W No E-W record available Records interrupted towards end of month through failure of driving clocks

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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.					
9	29	E E E E E	e i iS L M F	23	29	25 42 54 39 00 -	13	17	N E + + + +	U.S.C.G.S.: 71°N, 8°E No N-S record available	
A.E.M. Geddes											
Natural Philosophy Department, The University, Aberdeen.											

KING'S COLLEGE OBSERVATORY, ABERDEEN

NO RECORD FOR FEBRUARY 1959: BOTH DRIVING
CLOCKS REMOVED FOR REPAIR AND OVERHAUL.

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

March, 1959

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}	E-W	1.11.58	
E	1 lb.	10 sec.	20 : 1	150	19.0 mm ^{N-S}	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
March 1 1	E	M	17 49 -	26	140		N E	U.S.C.G.S.: 1/2°S, 134 1/2°E Obscured by overlapping.
2 17	E	i	08 48 43			87.3°	-	U.S.C.G.S.: 27 1/2°N, 130°E
	N	iS	48 48				-	
	E	i	54 17			9700Km	+	
	N	iSS	54 47				+	
	E	eSSS	58 42				-	
	NE	eL	09 11 30					
	E	M ₁	12 40	25	22			
	N	M	20 37	16	7			
	E	M ₂	24 37	15	18			
		F ⁻	58 -					
3 17	E	eF	22 07 52 09 30				-	U.S.C.G.S.: Jan Mayer Region
4 18	E	eL	01 27 30					U.S.C.G.S.: 27°N, 129°E
	E	M	38 35	15	3			Repetition of No. 2
		F	57 -					Very slight effect on N-S
5 19	N	e	08 33 07			31.5°	-	U.S.C.G.S.: 35°N, 36°W
	E	iPPP	33 22			3500 Km	+	
	E	i	33 42				+	
	E	iS	37 12				+	
	N	iSS	38 37				+	E 38m 42s
	NE	L	39 47					
	N	M	39 59	22	20			
	E	M ₁	40 59	20	19			
	E	M ₂	42 42	15	20			
		F ⁻	09 24 -					
6 20	N	i	15 25 15				-	
	NE	i, e	26 45				-	
	N	L	27 30					No definite max. on N-S
	E	M	30 46	40	19			
		F	38 -					
7 23	E	e	07 48 -				+	U.S.C.G.S.: 40°N, 118°W
	E	M	51 58	15	4		+	
	E	i	54 35					
	N	e	49 -					Slight effect on N-S
		F	08 05 -					

A.E.M. Geddes

Natural Philosophy Department,
The University,
Aberdeen.



SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN



April, 1957

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	E	1 lb.	10 sec.	20 : 1	150	18.1 mm E-W	E-W	1.11.58.
		1 lb.	10 sec.	20 : 1	150	19.0 mm N-S	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	April 1	E NE E E E N	eP iS iSS L M M F	00 40 57 46 16 48 14 48 46 50 39 55 46 01 10 -	15 15	26 4	32.5° 3610 Km	N E + + + + + +	U.S.C.G.S.: 27 1/2° N, 21° W T = 00h 34m 24s N° 40m 10s
2	2	E	LM	20 13 35 -32-					U.S.C.G.S.: 20 1/2° N, 121° E No readable effect on N-S
3	5	E E E	i e M F	10 54 14 54 41 56 09 11 09 -	7	1.5		+ -	U.S.C.G.S.: 44° N, 7° E No N-S record available
4	5	E E E	i e LM	20 14 28 17 11 21 16 - -36-				+ -	U.S.C.G.S.: 46° N, 151° E No N-S record available
5	6	E	Slight effect	00h 05m - 00h 15m.					U.S.C.G.S.: 57 1/2° S, 146° E U.S.C.G.S.: 10° S, 120 1/2° E
6	6	NE	LM	15 11 - -25-					U.S.C.G.S.: 36° S, 76° E
7	9	E N	LM L	07 29 - 40 - 37 38	15	1.5			U.S.C.G.S.: 7° N, 82° W No measurable effect on N-S
8	9	E E	L M F	18 14 - 24 30 34 -	17	2			U.S.C.G.S.: 17 1/2° N, 95° W
9	12	E	M F	10 41 28 45 -	20	2			U.S.C.G.S.: 4 1/2° S, 134° E No N-S record available
10	12	E E	e M F	16 22 - 23 15 45 -	25	8			U.S.C.G.S.: 15 1/2° S, 173° W
11	12	E E	e M F	22 05 - 14 27 17 -	20	2.5			

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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.					
12	15	E N	e LM	00 59 35 01 00 - -02-					N E	U.S.C.G.S.: 41 ¹ / ₂ °N, 143°N	
		E	M F	01 10 02 -	20	2.5					
13	20	E E	e M F	04 35 - 42 00 46 -	20	2				U.S.C.G.S.: 6°S, 149 ¹ / ₂ °E N-S record too faint to measure.	
14	20	E	LM	05 01 - -13-						U.S.C.G.S.: 8 ¹ / ₂ °N, 83°W	
15	22	E E N	e M LM F	19 39 20 45 20 -43- -50- 53 -	20	3				U.S.C.G.S.: 11 ¹ / ₂ °N, 86 ¹ / ₂ °W	
16	22	NE	LM	21 38 - -45-						U.S.C.G.S.: 36 ¹ / ₂ °S, 97 ¹ / ₂ °W	
17	24	E E	e M F	10 10 10 15 15 20 -	20	2.5				U.S.C.G.S.: 11 ¹ / ₂ °N, 86 ¹ / ₂ °W	
18	24	E N E E N E NE N E N	iPPP eSKKS iPSKS i i i L M M ₁ M ₂ M ₂ F	18 25 08 28 03 32 03 34 36 40 16 19 20 08 25 - 31 00 34 20 54 33 54 38 20 17 -			154° 17110Km	- - - -	+	U.S.C.G.S.: 31°S, 178°W Phases doubtful, building shaking.	
19	25	E NE N NE NE E N	iP i i i L M M F	00 32 38 37 23 37 53 39 13 40 30 44 38 46 03 01 33 -	13 15	11 8		- - - + + + +		U.S.C.G.S.: 37°N, 28 ¹ / ₂ °E Turkish Shock	
20	26	NE N N NE NE E NE E E N N E	iP iPP i iSKS iPS i iSS iSSS L L i M M F	20 53 05 56 33 57 20 21 03 28 04 35 08 10 09 55 13 00 22 40 24 10 24 37 29 01 36 19 22 37 -			86° 9555Km	- + + - + + + + + + + + + +		U.S.C.G.S.: 25°N, 122 ¹ / ₂ °E E 56m 27s	

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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.						
21	28	NE	e, iP	11	21	28			78°	N	E	U.S.C.G.S.: 15°N, 93°W T ₀ = 11h 09m 30s N 37m 14s
		E	iPP		24	24		8665Km		+	-	
		N	i		30	57				+	+	
		E	iS		31	20					-	
		NE	iPS		32	02				+	+	
		E	iSS		36	47				+	+	
		E	eSSS		39	49					-	
		N	e		42	22				+		
		N	L		48	00						
		N	M		50	17	25	13				
		E	M		57	44	18	29				
			F	12	34	-						

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May, 1959

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. "	Δ° km.	Dir ⁿ of Motion	Remarks Time of origin
1	May 4	E E	e M F	09 10 - 52 03 11 00 -	22			N E	U.S.C.G.S.: 52 ¹ / ₂ °N, 159 ¹ / ₂ °E Early portion lost through light failure
2	5	E E E E	e e L M F	19 29 45 32 45 38 35 49 24 20 35 -	16	7		+ +	U.S.C.G.S.: 53°N, 159°E
3	6	NE N E	L M M F	01 07 06 19 10 19 25 40 -	20 20	4 5			U.S.C.G.S.: 3°S, 148 ¹ / ₂ °E
4	7	NE	LM	23 00 - -08-					Traces only: ? seismic
5	12	N E NE N NE E N E N	eP e iS eSS L M ₁ M ₁ M ₂ M ₂ F ₂	05 08 37 08 57 17 39 22 04 31 - 33 13 36 00 44 12 46 24 06 45 -	23 20 17 16	7 5.5 4 4.5	68.6° 7620Km	- + + +	U.S.C.G.S.: 54 ¹ / ₂ °N, 168°E T _o = 04h 57m 36s eE = 22m 00s
6	12	E NE N NE N E N N	ePP iSKS iPPS i, eSS L M M ₁ M ₂ F ₂	10 04 13 10 53 13 05 17 50 32 05 40 38 41 05 53 05 12 35 -	17 20 18	20 7 13	96.0° 10665Km	- -	U.S.C.G.S.: 23 ¹ / ₂ °S, 64 ¹ / ₂ °W Early phases affected by shaking of building
7	12		Obscured	by No. 6.					U.S.C.G.S.: 20 ¹ / ₂ °S, 63 ¹ / ₂ °W
		E E N	L M M	10 58 40 11 05 03 13 05	18 16	5.5 3			

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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.					
	May								N E		
8	12	N E N E E N E N	e ePP iS ePS eSS e M M F	22 11 18 13 48 20 20 20 47 25 08 29 12 37 05 44 20		17 20	4 4	70° 7780Km	- + + - +	U.S.C.G.S.: 51 ¹ / ₂ °N, 177°W eN 14m 06s T ₀ = 22h 00m 00s	
9	14	E NE	e LM F	01 04 00 10 - -17 - -24 -							
10	14	NE NE E NE E N E N E	eP i i iS i L M ₁ M ₁ M ₂ M ₂ F ²	06 42 58 43 03 47 43 47 47 49 18 51 - 54 26 55 20 57 01 57 40 07 53 -		20 16 13 12	30 16 19 24	28.0° 3110Km	- - - + - - - - - - -	U.S.C.G.S.: 35 ¹ / ₂ °N, 24 ¹ / ₂ °E T ₀ = 06h 37m 03s	
11	14	E N E E N	e e L M LM F	19 31 - 32 - 37 - 40 50 36 30 -44 - 48 -		10	1				
12	16	E N N E E N	e eSS M M ₁ M ₂ M ₂ F	06 54 - 55 - 07 23 00 23 12 31 50 38 07 08 30 -		25 25 22 20	4 4 5 4			U.S.C.G.S.: 4 ¹ / ₂ °S, 153 ¹ / ₂ °E	
13	19	NE N E E	e i L M F	15 32 50 40 05 44 - 51 50 16 04 -		17	4		+ +	U.S.C.G.S.: 33°N, 68 ¹ / ₂ °E	
14	20	N	Traces	16 45 - -49 -						B.C.I.S.: 37 ¹ / ₄ °N, 26 ¹ / ₂ °E	
15	20	NE N E E	e i L M F	20 02 45 07 30 09 40 15 03 30 -		11	2.5		- -	B.C.I.S.: 44 ¹ / ₂ °N, 149°E	
16	24	E	Traces	11 08 - -21 -						U.S.C.G.S.: 26 ¹ / ₂ °N, 90 ¹ / ₂ °E	

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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.					
	May										
17	24	N E E N	e L M M F	13 30 33 33 52	28 30 17 35 -	35 30 17 35 -	13 10	2.5 1.5			U.S.C.G.S.: 37 ¹ / ₂ °N, 4°E
18	24	NE N E E NE N N E E E N	iP i iPP iPPP iS iPS iSS iSSS L M M F	19 30 32 34 39 40 44 48 54 58 20 21	29 43 38 23 33 13 48 29 50 27 02 52	36 43 38 23 33 13 48 29 50 27 03 -	25 25	61 9			78.3° 8700 U.S.C.G.S.: 17 ¹ / ₂ °N, 97°W T ₀ = 19h 17m 38s E 44m 27s
19	26	E E N	e e LM F	04 05 -11 18	55 06 - 18	05 - - -					U.S.C.G.S.: 27 ¹ / ₂ °N, 126 ¹ / ₂ °E
20	26	E E N E	e e LM M F	06 07 -20 10 25	56 02 - 00 -	15 40 - 00 -	17	2			U.S.C.G.S.: 37 ¹ / ₂ °N, 70°E
21	29	NE	Traces	11 -40	11 -	-					U.S.C.G.S.: 19°S, 169 ¹ / ₂ °E
22	31	E E E E E E	e e i e L M F	09 10 18 35 41 52 11	49 06 52 00 - 48 20	50 40 52 00 - 48 -	15	2.5			No readable effect on N-S compt.
23	31	E E N E	e L LM M F	12 28 29 -34 32 36	24 40 - - 38 -	50 40 - - 38 -	13	2			

A. E. M. Geddes

Natural Philosophy Department,
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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.

JUNE, 1959

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	June 2	E NE E N	e e e F	01	32	50			N E	U.S.C.G.S.: 32°N, 131°E	
					39	00					
					43	30					
					45	15					
				02	03	-					
2	2	N NE E	e e M F	03	22	-	22	6.5		U.S.C.G.S.: 21°N, 121°E	
					23	-					
					27	40					
					50	-					
3	2	E E	e M F	04	54	-	16	2		U.S.C.G.S.: 25 1/2°S, 176°W	
					56	50					
				Lost in succeeding shock							
4	2	E E E E E	i iS e L M F	05	19	58				- U.S.C.G.S.: 21°N, 121 1/2°E	
					20	51				+ Light failed on N-S	
					30	33					
					41	50					
					47	00	22	39			
				Lost in succeeding shock							
5	2	E E E	e L M F	06	19	30				+ U.S.C.G.S.: 43°S, 72°W	
					31	-					
					32	45	20	5			
				06	56	-					
6	7	E EN N	e L LM	14	04	-				U.S.C.G.S.: 1/2°N, 18°W	
					08	03					
					09	-					
					-16	-					
		E	M F	12	12		16	2.5			
					26	-					
7	10	E N E	e e M F	04	31	45				U.S.C.G.S.: 36°N, 23°E	
					32	40					
					32	30	15	2			
					38	-					
8	13	E E	e M F	22	04	40				U.S.C.G.S.: 46 1/2°N, 13°E	
					07	20	10	1			
					12	-					

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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
9	June 14	E NE NE NE E N E NE E N N E N	eP e iPP iSKS iS i iPS iSS iSSS i L M M F	00 25 20 25 50 29 08 35 42 36 39 37 11 37 40 43 01 47 01 49 33 57 28 01 03 47 04 53 03 05 -			95.0° 10555Km	N E - - + + + + + + + + + + + - +	U.S.C.G.S.: 20 1/2°S, 68°W T ₀ = 00h 11m 57s N 42m 53s
10	14	E E E E	e e i e F	14 10 10 19 30 27 56 45 15 15 04 -				+ + +	? Seismic
11	17	NE	e F	10 52 30 11 10 -				- -	U.S.C.G.S.: 34 1/2°N, 98 1/2°W
12	18	NE N E E E E NE NE E N	iS i iSS i iSSS M i L M M F	15 51 26 53 17 55 53 56 42 59 12 16 02 47 08 07 13 - 20 48 21 58 17 36 -			68° 7560Km	+ + + + - - + + + + + + + + + + + + + + + +	U.S.C.G.S.: 54°N, 160°E Apparently two shocks superposed.
13	21	E N	e e F	06 48 10 49 20 07 20 -				+ +	U.S.C.G.S.: 4 1/2°S, 151 1/2°
14	23	E N E	eL LM M F	15 12 10 15 - -22- 16 48 29 -				15 2	U.S.C.G.S.: 39°N, 119°W
15	25	NE N E E N NE	iP e eS iSS L M F	06 50 10 51 23 52 43 53 08 54 10 56 13 07 41 -			13.8° 1530Km	+ + + + - + + +	U.S.C.G.S.: 62°N, 27 1/2°W T ₀ = 06h 46m 58s eN 53m 28s
16	27	NE N N N E N N E N E	i, eP i iPP iS ePS iSS i iSSS M L F	19 24 24 26 01 27 09 33 44 34 16 38 40 40 36 41 26 45 16 47 29 21 06 -			71.9° 7990Km	+ + - + + + + + + + + + + + + + + + + + + +	T ₀ = 19h 13m 04s eE 33m 34s

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No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. "	Δ° km.	Dir ⁿ of Motion	Remarks Time of origin
				h.	m.	s.					
17	June 28	E E E E E E E E	ePPP iSKS iPPS eSS i L M ₁ M ₂ F	20	05	23 09 02 14 23 19 08 22 58 45 25 49 13 53 20 21 10 -				N + + + + -	U.S.C.G.S.: 9 ¹ / ₂ ^o S, 126 ¹ / ₂ ^o E T = 19h 43m 27s N8 readable effect on N-S
							25 20	4 3			
											A.E.M.Geddes
											Natural Philosophy Department, The University, Aberdeen.



SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

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

July, 1959

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	19.0mm.	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.				N	E			
July														
1	1	E	i	02	46	29			89° 9890 Km		-	U.S.C.G.S.: 28°N, 139 ¹ / ₂ °E Deep focus		
		NE	iSKS		49	24							+	+
		E	iSP		50	56							-	-
		E	iPPS		53	13							-	-
		F	03	05	-							N 53m 18s		
2	3	N	iPP	18	19	00			139° 15445Km		-	U.S.C.G.S.: 16°S, 172 ¹ / ₂ °E		
		E	i		21	12							-	+
		E	eSKS		21	57							-	+
		E	i		25	10							-	+
		E	iS		25	55							-	+
		E	iPPS		29	35							-	-
		E	eSSS		41	27							-	-
		E	L	19	03	25							-	-
		E	L		05	05							-	-
		E	M		13	47							20	5
E	M		14	07	20	2.5								
E	F	20	14	-							eE 29m 29s			
3	5	E	e	16	07	22					-	U.S.C.G.S.: 8°S, 74°W		
		E	ePP		09	52							-	+
		E	ePPP		11	30							-	+
		N	eSKKS		17	15							-	-
		NE	eSSS		26	00							-	-
	F		35	-								Displacements very slight		
4	6	NE	I iSKS	09	32	35			97° .2 10800Km		-	U.S.C.G.S.: 26 ¹ / ₂ °S, 61 ¹ / ₂ °W		
		NE	I iS		33	24							-	+
		NE	I iPS		36	25							-	+
		NE	II iSKS		45	46							-	-
		NE	II iS		46	35							-	-
		NE	II iPS		49	33							-	-
			F	10	45	-								
5	9	NE	iPP	16	22	22			95° 10555 Km		+	U.S.C.G.S.: 20 ¹ / ₂ °S, 68°W		
		E	i		23	03							-	+
		N	iSKS		29	03							-	+
		N	iS		30	00							-	+
		N	ePS		31	08							-	+
		E	ePPS		31	33							-	+
		E	iSS		36	16							-	+
		NE	eSSS		40	21							-	+
		E	L		54	-							-	+
		E	M		57	02							20	2.5
	F	17	26	-										



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.				N	E			
6	11	N	e	12	50	20	20	2.5		+		U.S.C.G.S.: 36 ⁰ S, 78 ⁰ E		
		N	e		59	15							-	
		N	M F	13	16	08 31								
7	16	NE	Slight effect from 20h to 22h but no definite phases recorded.									U.S.C.G.S.: 21 ¹ / ₂ ⁰ S, 169 ⁰ E		
8	18	E	iPP	20	11	47	25	30E) 9N)	93.4 ⁰ 10380Km	-	+	U.S.C.G.S.: 15 ¹ / ₂ ⁰ N, 120 ¹ / ₂ ⁰ E		
		NE	i		11	52							-	
		E	i		13	22								-
		NE	iSKS		18	21							+	
		NE	iSKKS		18	57								-
		N	i		19	59							-	
		NE	eSS		25	02								+
		NE	eL		38	30								
NE	M		44	17										
9	19	E	e	14	01	46				+		U.S.C.G.S.: 23 ¹ / ₂ ⁰ S, 179 ⁰ E		
		E	e		10	51							-	
		E	e F		23 58	21 -								
10	19	E	e	15	18	56	20	22	91.3 ⁰ 10145 Km	+	+	U.S.C.G.S.: 15 ⁰ S, 70 ¹ / ₂ ⁰ W		
		N	i		19	46							+	
		E	i		22	13								+
		N	i		23	23							+	
		NE	iSKS		29	10								+
		NE	i		30	51							+	
		NE	iPPS		31	46								-
		E	eSSS		40	36							-	
NE	L		44	10										
E	M		55	11	17									
N	M		56	01										
F			18	00	-									
11	20	E	i	03	04	23		107 ⁰ 11890Km		+	+	U.S.C.G.S.: 6 ⁰ S, 110 ⁰ E		
		E	iSKS		05	16							-	
		N	iSKKS		05	53								-
		E	iPS		07	36							+	
		N	iSSS		18	04								+
		F			27	-								
12	21	E	e	09	48	50	17	2			+	U.S.C.G.S.: 19 ⁰ N, 68 ¹ / ₂ ⁰ W		
		E	M		56	03							-	
		F			10	03								
13	21	E	iS	12	51	28	20	4		+	+	U.S.C.G.S.: 16 ⁰ N, 98 ⁰ W		
		E	e		56	14							-	
		E	L		13	14								-
		E	M		17	55							-	
		F			36	-								
14	22	N	ePP	19	37	53				+	+	U.S.C.G.S.: 53 ⁰ N, 153 ⁰ E		
		E	e		40	06							-	
		NE	i		42	30								+
		N	i		20	01							+	
		E	i F		13 42	30 -								

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.							
July													
15	22	NE	ePP	23	23	12				N	E		
		NE	e		24	45			124.3 ^o	-	-		
		NE	ePPP		25	48			13810 Km	+	+	U.S.C.G.S.: 5 ^o S, 152 ¹ / ₂ ^o E	
		NE	eSKKS		30	22				-	-		
		NE	ePS		33	10				+	+		
		E	e		34	58				+	+		
		N	e		43	03				+	+		
		E	L		24	01	30						
		N	L			04	10						
		N	M ₁			12	43	20	5				
E	M ₁			13	05	20							
N	M ₂			19	04	20							
			F ₂	25	27	-							
16	24	N	i	01	39	53			72.7 ^o	+	+	U.S.C.G.S.: 41 ^o N, 125 ¹ / ₂ ^o W	
		NE	e, is		43	55			8080 Km	+	+	T = 01h 23m	
		E	eSS		48	44				+	+	^o eN 48m 40s	
		N	eSSS		51	50				-	-		
		NE	L		57	-							
		E	M ₁		02	02	53	17	10				
		N	M ₁			03	03	15	3				
		E	M ₂			05	10	15	9.5				
		N	M ₂			06	42	15	4				
					F ₂	43	-						
17	26	E	eS	17	17	06				+	+	U.S.C.G.S.: 41 ^o N, 27 ¹ / ₂ ^o E	
		E	L		22	04							
		E	M		26	00	13	3				Light failed on N-S	
			F		41	-							
18	31	E	e	20	12	48				-	-	U.S.C.G.S.: 38 ¹ / ₂ ^o N, 70 ^o E	
		E	i		17	29				+	+		
		E	i		20	16				+	+	Effect on N-S almost negligible	
		E	e		22	00				+	+		
		E	i		23	04							
		E	M		27	05	15	2.5			-	-	
			F		36	-							

A.E.M. Geddes.

Natural Philosophy Department,
The University,
Aberdeen.



SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

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

August, 1959

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

Compt.		Mass	To	Damping Ratio	Magnification	1" Tilt	Date from which constants apply		
N	E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	E-W	1.11.58	
E	N	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	Aug. 7	E NE E NE E E	iS iSS e i e M F	11 02 51 06 54 10 24 11 41 22 30 34 36 44 -	13	1		N E - - + + U.S.C.G.S.: 56°N, 154°W	
2	7	N N	e e F	22 20 50 25 44 33 -				- - U.S.C.G.S.: 56 ¹ / ₂ °N, 154°W No E-W record	
3	8	N N N	e i e F	00 59 45 01 07 37 08 30 12 -				+ + + U.S.C.G.S.: 55°N, 162 ¹ / ₂ °E Very slight No E-W record	
4	12	E E	e e F	01 13 35 19 45 27 -				+ U.S.C.G.S.: 11 ¹ / ₂ °N, 86°W	
5	12	N E N E E E E N N E N	i iPP iSKP iPSKS iPPS eSS i L M M F	10 15 45 20 45 21 25 30 35 33 35 39 13 47 58 11 08 35 16 46 21 16 12 20 -	20 17	16 3	139° 15445Km	- + - - - + U.S.C.G.S.: 16 ¹ / ₂ °S, 177 ¹ / ₂ °W T _o = 09h 58.6m	
6	15	NE E E E N E N NE N E N E	eP iPP i iSKS iS iPS iSS iSSS L M M ₁ M ₂ M ₂ F	09 09 49 13 22 16 57 20 17 20 37 21 27 26 36 30 00 37 50 45 12 45 20 47 41 48 57 11 55 -	22 25 18 20	500 304 156 411	86.9° 9655Km	+ - + + - - + + - + + U.S.C.G.S.: 23°N, 121°E N 13m 42s N 20m 22s E 20m 44s N 21m 56s E 26m 44s T _o = 08h 57m 12s	



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	Aug. 16	E N E N	e e M M F	02 08 00 09 20 10 48 11 20 32 -	20 20	11 5.5		N E	U.S.C.G.S.: 21°S, 169°E
8	17	E NE E N N E	eP iS iSS L M M F	01 37 57 42 08 43 17 44 32 47 38 47 44 02 24 -	15 15	16 39	23.6° 2620Km	+ - -	B.C.I.S.: 41°N, 193/4°E
9	17	NE E	e M F	04 41 50 43 30 55 -	15	3			B.C.I.S.: repetition of previous shock
10	17	N E N E N E E E E E N	ePP e ePPP eSKS iSS iSSS i L M ₁ M ₂ F	21 25 55 26 10 28 20 30 48 42 53 47 36 57 13 22 09 15 15 03 17 21 18 46 25 10 -	27 17 20	49 24 8	127.6° 14180Km	+ + - + - -	U.S.C.G.S.: 77/2°S, 156°E T ₀ = 21h 04m 40s E 43m 13s
11	17	E E N	e M e F	01 16 10 23 18 25 30 44 -	20	5.5			U.S.C.G.S.: 22°N, 121 1/2°E Very slight. No max. on N-S
12	18	NE E N ME E N NE E E N E N	iP iPP ePPP i iS iPS i i L M ₁ M ₁ M ₂ M ₂ F	06 47 43 50 08 51 30 56 13 56 28 56 55 07 00 20 04 20 09 40 14 10 15 12 15 20 16 46 12 00 -	17 15 15 15	420 158 288 161	64.2° 7135Km	+ - + + + + +	U.S.C.G.S.: 44 1/2°N, 111°W iE 51m 40s T ₀ = 06h 37m 13s N 04m 28s Coda includes aftershocks
13	18	E E N N E E E NE E N	eP ePP iPPP iS eSS iSSS L M M F	15 36 32 39 02 40 25 45 17 49 30 51 57 57 - 16 02 22 02 27 17 54 -	15 15	14 3	64.2° 7135Km	+ - + + +	U.S.C.G.S.: 44 1/2°N, 111°W T ₀ = 15h 26m 05s
14	18	E E N	e M LM F	22 16 32 18 14 17 - 22 - 30 -	15	1.5			B.C.I.S.: 41°N, 193/4°E

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compr.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir ⁿ of Motion	Remarks Time of origin
	Aug 29	(contd.)						N E	
		NE	iS	17 21 01				+ +	
		NE	iSS	25 20				+ +	
		E	i	30 00				-	
		NE	L	33 12					
		NE	M	39 09	E 18	44)			
		E	M	41 21	N 15	24)			
			F	19 37 -	13	28			
24	30	NE	iS	03 33 50				+ -	U.S.C.G.S: 35 ¹ / ₂ °N, 3°W
		E	i	35 59				-	
		E	i	37 11				+	
		E	L	38 34					
			F	51 -					
25	30	E	e	22 52 08				- +	U.S.C.G.S: 36 ¹ / ₂ °S, 78 ¹ / ₂ °E
		N	e	53 15					
		E	L	56 45					
		E	M	23 04 22	17	4			
		N	M	04 36	17	2			
			F	45 -					

A.E.M. Geddes

Natural Philosophy Department,
The University,
Aberdeen.



SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

SEPTEMBER, 1959

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	E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	E-W	1.11.58	
		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	Sep. 1	E N E N	i i M M F	07 32 44 37 26 39 14 40 31 08 05 -	14 15	3 3		N E +	
2	1	NE N NE E NE E N	iP i iS ie L M M F	11 42 31 45 04 46 31 47 00 48 50 50 06 51 55 52 15 13 00 -	15 14	64.5 43	21.8° 2420Km	- + - - -	U.S.C.G.S.: 41 ¹ 2° N, 20° E T ₀ = 11h 37m 38s
3	3	E		04 15 - -22-					U.S.C.G.S.: 41° N, 20° E
4	3	N E E N E N	iS ie e M M F	06 54 04 54 55 07 18 28 27 05 39 05 42 55 08 03 -	20 20	3 3		- + +	U.S.C.G.S.: 41 ¹ 2° S, 123° E
5	4	E E N	e M M F	18 46 52 51 07 52 05 19 00 -	15 15	2 2		+	U.S.C.G.S.: 1° S, 24° W
6	5	E E E N	e M ₁ M ₂ M ₂ F	07 05 00 06 57 15 09 23 02 39 -	30 23 20	12.5 7 3			U.S.C.G.S.: 1° N, 129° E
7	11	NE E N N E	e, i e e M M F	12 40 07 41 47 42 42 44 42 45 42 13 09 -	9 9	1.2 1.7		- - +	

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.					
	Sep.								N E		
8	11	E	e	14	22	35				+	
		NE	e		27	20				+	
		NE	e		31	00				-	
			F		40	-					
9	12	E	e	02	23	00				+	
		N	e		23	50				-	
		NE	e		31	00				+	
		E	M ₁		49	55	35	26			
		N	L ₁		53	00					
		NE	M	03	09	06	20	6			
		E	M ₂		06	20	22	7			
			F ₂	04	23	-					
10	12	N	ePP	11	45	50				-	
		E	e		47	15				-	
		NE	e	12	36	00					
		N	M		49	45	20	3			
		E	M		49	53	17	4			
			F	13	09	-					
11	13	E	LM	23	38	40					
					-53-						
										U.S.C.G.S.: 1°N, 129°E	
12	14	N	iPKP	14	29	35		151.2°		+	
		E	i		29	48				+	
		E	i		32	05		16800Km		+	
		E	i		35	33				+	
		E	iSKKS		39	50				-	
		N	iPSKS		43	38				-	
		NE	iSS		52	31				+	
		E	iSSS		58	13				+	
		E	i	15	10	31				+	
		N	L		20	25					
		NE	M ₁		29	30	25	43.5			
		E	M ₁		32	57	25	130			
		E	M ₂		39	04	17	27			
		E	M ₂		40	35	20	82			
			F ₂	19	45	-					
										U.S.C.G.S.: 28 1/2°S, 177°W	
13	14	NE	e	22	46	30				-	
		E	e		58	05				+	
		E	e	23	06	40				-	
			F		26	-					
										Aftershock of No. 10	
14	14	E	e	23	44	25				+	
		N	e		47	55				-	
		NE	M	24	02	55	20	3			
		E	M		09	47	15	1.5			
			F	25	29	-					
										U.S.C.G.S.: 29°S, 177°W	
										Aftershock of No. 10	
15	15	NE	i, ePKP	06	19	42		151.2°		-	
		NE	i		21	46		16800 Km		+	
		N	i		33	45				+	
		NE	e, iSS		42	40				-	
		E	iSSS		48	25				+	
		E	i	07	00	25				-	
		NE	L		17	00					
		E	M		29	32	18	11			
		E	M		29	53	18	33			
			F	Lost during changing of Charts							

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.				N	E	
16	Sep 15	N	eSKKS	11	34	50			N	E	U.S.C.G.S.: 21 1/2° S, 179 1/2° W	
		E	e		36	-			+	+		
		NE	i		45	24			+	+		
		E	i		49	08				-		
		N	Traces	11	51	-						
			F	12	11	-						
					16	-						
17	16	NE	Traces	05	31	-					U.S.C.G.S.: 28 1/2° S, 176° W	
					-37	-						
18	16	NE	Traces	11	35	-					U.S.C.G.S.: 29° S, 176 1/2° W	
				12	00	-						
19	16	E	eL	17	15	40					U.S.C.G.S.: 29° S, 176 1/2° W	
		N	L		23	00						
		E	M ₁		29	00	18	2				
		E	M ₂		41	45	16	4				
		N	M		42	45	16	2				
			F	18	10	-						
20	17	E	e	16	03	35					U.S.C.G.S.: 28 1/2° S, 176° W	
		E	M		08	16	15	1.5				
			F		24	-						
21	18	NE	e	13	01	15					U.S.C.G.S.: 57 1/2° S, 24° W	
		N	M		07	24	20	2.5				
		E	M		08	20	20	2.5				
			F		15	-						
22	23	E	LM	23	08	-					U.S.C.G.S.: 35 1/2° N, 138 1/2° W	
					-20	-						
23	25	NE	iP	02	49	42		88.2°	+	-	U.S.C.G.S.: 22° N, 122° E T = 02h 36m 46s N° 01m 26s	
		NE	iPP		53	12		9800Km	+	+		
		NE	iS	03	00	21			-	+		
		E	iPS		01	16			-	+		
		NE	iSS		06	21			-	+		
		E	e		11	23				-		
		N	L		21	36						
		NE	M		24	56	24	94E) 51N)				
		E	M ₂		33	30	18	111				
		N	M ₂		33	36	17	60				
			F ₂	05	10	-						
24	26	NE	eS	08	41	22		70°	+	+	U.S.C.G.S.: 43 1/2° N, 128.2° W	
		E	eSS		45	54		7780Km	+	+		
		NE	eSSS		49	09			-	-		
		E	L		53	15						
		E	M	09	04	50	15	16				
			F		33	-						
											Max. on N-S lost during changing of chart	
25	29	E	e	15	55	00		151.5°		+	U.S.C.G.S.: 29° S, 176° W E 02m 20s	
		N	eSKKS	16	02	05		16835Km	-	+		
		NE	e, iSS		15	05			+	+		
		N	i		16	50			-			
		E	L		49	00						
		E	M	17	03	56	17	8				
		N	M		17	15	15	3				
			F	18	03	-						
26	30	NE	Traces	17	11	-					B.C.I.S.: 36° N, 3.3° W	
					-13	-						

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

OCTOBER, 1959

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. "	Δ° km.	Dir ⁿ of Motion	Remarks Time of origin
1	Oct. 4	NE NE	e LM	18 52 15 19 00 - -35-				N E - +	? Seismic
2	5	E N E NE E N E N	e ePP i e, is eSS i M M F	18 35 35 36 11 37 05 40 31 42 35 49 57 56 20 19 01 15 13 -	20 15	4 2	36.2° 4020Km	+ - + + - -	U.S.C.G.S.: 83 ¹ / ₂ °N, 112 ¹ / ₂ °E iN 37m 12s
3	5	NE E E N E N	iS iSS iSSS L M M F	20 42 55 43 36 44 14 46 55 48 12 48 18 21 01 -	15 16	8 7	21.4° 2380 Km	+ + -	U.S.C.G.S.: 41°N, 20°E T ₀ = 20h 34m 08s
4	7	NE E N N NE N E N	iS iSS iSSS i L M ₁ M ₁ M ₂ F	08 39 30 40 12 40 33 42 02 44 - 45 03 47 28 47 36 09 15 -	16 13 13	20 20.5 14	21.4° 2380Km	- - + +	U.S.C.G.S.: 41°N, 20°E iE 42m 23s T ₀ = 08h 30m 43s
5	12	E E	e M F	04 16 05 19 20 35 -	20	2.5			U.S.C.G.S.: 19°S, 68 ¹ / ₂ °W No N-S effect
6	15	E E E E E E E	iPP iPPP iSKS iSKKS iPPS L M ₁ M ₂ F	06 34 20 36 42 40 35 41 28 44 33 07 10 10 13 45 18 03 08 40 -	22 20	39. 32	108° 12000Km	+ + -	U.S.C.G.S.: 72°N, 120 ¹ / ₂ °E T ₀ = 06h 15m 35s Minute break on N-S not functioning correctly.

SEISMOLOGICAL BULLETIN

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.								
7	Oct. 19	E	e	16	23	25	22 18	6.5 10		N	E	U.S.C.G.S.: 54 ¹ / ₂ °S, 29°W Phases very uncertain through shaking of building		
		NE	ePS		24	43								
		E	e		29	18								
		NE	L		48	10								
		NE	M		49	55								
		N	M	17	01	08								
			F		35	-								
8	26	NE	iS	07	57	38	25 23 15 14	13 25 13 13	81.0° 9000Km	-	-	U.S.C.G.S.: 37 ¹ / ₂ °N, 142 ¹ / ₂ °E T _o = 07h 35m 15s		
		E	i	08	02	10								
		NE	iSS		03	06								
		NE	L		14	55								
		NE	M ₁		20	02								
		E	M ₁		20	26								
		E	M ₂		29	10								
		N	M ₂		34	02								
		N	F ₂	09	05	-								
9	27	NE	e, iS	07	14	10	20 21	30 30	75.2° 8355Km	+	+	U.S.C.G.S.: 45 ¹ / ₂ °N, 151°E T _o = 06h 52m 51s Confused by microseisms		
		E	iPS		14	53								
		N	eSS		19	53								
		NE	eL		30	-								
		E	M		38	55								
		N	M		41	57								
		N	F	08	13	-								

A.E.M. Geddes.

Natural Philosophy Department,
The University,
Aberdeen,
Scotland.

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

NOVEMBER, 1959

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	Nov. 7	NE NE E N	eS	02	40	49	12 12	7 4.5		N -	E -	N 40m 54s U.S.C.G.S.: 36.5°N, 2.5°E
			eL		43	-						
			M		44	18						
			M F		44 59	42 -						
2	10	E NE E N	i	21	21	04	18 19	15.5 22		+ +	- -	
			e		29	20						
			M		30	09						
			M F		30 39	38 -						
3	15	E N N E N E E N	i	10	49	02	13 15	5 3		- +	- -	U.S.C.G.S.: 38°N, 74 1/2°E Maxima ill defined
			e		50	54						
			i		52	03						
			e		53	57						
			i		55	55						
			e		57	19						
			M	11	01	54						
			M F		03 07	37 -						
4	15	NE NE NE NE N N E	iP	17	14	02	15 16	169 255	24.3° 2700 Km	+ -	- -	U.S.C.G.S.: 37 1/2°N, 20 1/2°E N 14m 37s N 18m 17s
			iPP		14	31						
			i		15	07						
			i		16	06						
			iS		18	20						
			L		21	07						
			M		23	35						
			M F		23 19	42 14						
5	16	NE NE E NE E N	i	10	36	28	20 20	4 4	59.4° 6600 Km	+ -	- -	U.S.C.G.S.: 1°N, 26 1/2°W
			iS		39	39						
			eSSS		45	36						
			L		47	30						
			M		52	23						
			M F	11	05	-						

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.					
6	Nov. 19	E NE E E N N E	iSS eSSS i L L M M F	11	46	11	27 25	14.5 30		N E + - +	U.S.C.G.S.: 57 ¹ / ₂ °S, 146°E E 51 _m 24 _s
					51	19					
					59	47					
				12	05	35					
					08	20					
					11	54					
7	19	E E E E E	e e i i i F	14	12	05	20	4		+ - + +	U.S.C.G.S.: 38 ¹ / ₂ °N, 26°E Phases doubtful through shaking of building
					15	30					
					17	30					
					19	25					
					23	14					
8	20	E E E	i e i F	00	16	55	23			+ +	U.S.C.G.S.: 42 ¹ / ₂ °N, 126 ¹ / ₂ °E Obscured by shaking of building
					18	36					
					21	25					
					28	-					
9	26	E E	eL M F	08	06	30	23				U.S.C.G.S.: 57 ¹ / ₂ °S, 102 ¹ / ₂ °E N-S clock under repair
					10	20					
					40	-					
10	27	E E E E E E	eSKS iPS eSS e L M F	23	34	19	20	35	103 ^{0.5} 11,500Km	+ + + +	U.S.C.G.S.: 57 ¹ / ₂ °S, 103°E
					36	49					
					42	34					
				24	02	15					
					10	15					
					18	29					
11	28	E E E E E E E	iSKS ePS i e L M ₁ M ₂ F	12	59	49	20 18	4 5.5		- + + +	U.S.C.G.S.: 28 ¹ / ₂ °S, 71°W Phases doubtful
				13	02	19					
					08	34					
					17	27					
					24	35					
					31	29					
					38	44					
	53	-									

A. E. M. Geddes

Natural Philosophy Department,
The University,
Aberdeen.

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

DECEMBER, 1959

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	Dec 1	E E E E E	iP e iS e e F	12 44 06 47 46 48 31 52 28 56 12 13 06 -			24.7° 2745 Km	N E - + + - +	U.S.C.G.S.: 38°N, 2172°E T ₀ = 12h 38m 44s
2	2	E E E E E E E E	iPS iPPS eSS i e e L M F	10 02 13 03 14 08 08 08 56 14 55 19 08 28 26 38 22 57 -	25	35		+ - + - + +	U.S.C.G.S.: 1°S, 123°E Obscured by microseisms
3	12	E E E E	i e i M F	20 11 36 12 06 12 28 12 51 14 -	10	1.5		+ + -	B.C.I.S.: 35 ³ / ₄ °N, 3 ⁰ / ₄ °W Very slight effect
4	14	E E E	L i M F	22 47 30 51 54 55 48 23 06 -	16	9		+	U.S.C.G.S.: 52 ¹ / ₂ °N, 168°W
5	14	E E E E E E E E E	eP ePKP iPS iPPS iSS e L M ₁ M ₂ F ²	23 37 47 41 36 51 31 52 44 59 09 24 14 25 23 50 26 41 31 08 50 -	20 17	33 40	117° 13000Km	- + + + + +	U.S.C.G.S.: 59 ¹ / ₂ °S, 31°W
6	15	E E E E E	i i i i M F	00 52 00 54 20 57 36 01 00 36 11 26 25 -	18	13		- + - +	

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.					
7	21	E E E E E E E E	iPP i iS iSS i L M ₁ M ₂ F ²	11	31	35 32 58 37 34 41 31 45 03 47 - 51 41 57 38 12 53 -	25 18	48 47	59.4° 6600Km	N E - + + - -	U.S.C.G.S.: 14°N, 52°E
8	22	E	eLM	17	48	- -57-					U.S.C.G.S.: 37 ¹ / ₂ °N, 141 ¹ / ₂ °E
9	27	N NE E N N E N E N N E	i iS iPS i iSS e L M ₁ M ₁ M ₂ M ₂ F ²	16	12	28 12 38 12 53 15 05 17 16 22 18 25 38 27 18 29 37 33 13 39 31 17 19 -	22 22 18 15	39 33 24 19	66.5° 7390Km	+ - - + + + +	U.S.C.G.S.: 56°N, 162 ¹ / ₂ °E T ₀ = 15h 52m 54s
10	23	NE E E NE E E N	i i i i, e M ₁ M ₂ M ₂ F	07	41	10 43 35 50 23 52 15 57 56 08 05 36 07 16 55 -	20 18 15	16 15.5 7		+ + - - + +	U.S.C.G.S.: 52 ¹ / ₂ °N, 160°E Obscured by microseisms

A.E.M. Geddes.

Natural Philosophy Department,
The University,
Aberdeen.