





## KING'S COLLEGE OBSERVATORY, ABERDEEN

No	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. "	$\Delta^{\circ}$ km.	Dir <sup>n</sup> of Motion	Remarks Time of origin
				h.	m.	s.					
14	27	NE E	L M F	08 09 13	57 03 13	- 25 -	20	5		N E	
15	30	N NE N E E NE	i i i e L e F	06 07 08	36 13 05	54 48 14 05 - 30 -				- + + + +	Whole effect slight
										A.E.M. Geddes	
Natural Philosophy Department, The University, Aberdeen.											

# SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

February, 1958

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 19.0 mm N-S <del>18.1 mm</del>	8/11/56		
E		1 lb.	10 sec.	20 : 1	150				

  

No	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir <sup>n</sup> of Motion	Remarks Time of origin
1	Feb. 1	E E N NE E NE E NE N E	iP ePP iS i iPS iSS iSSS L M M F	16 22 31 25 32 32 43 32 51 33 26 38 16 41 55 47 30 54 33 58 23 17 50 -	20 20	3 30	81.5° 9055Km	N E + - + + + + - + -	U.S.C.G.S.: 2°N, 79°W Ecuador Shock T <sub>0</sub> = 16h 10m 15s N <sup>o</sup> 33m 14s E 38m 18s
2	1	N N NE E E E	i iPPP iS i i L M F	18 14 43 19 57 25 08 28 04 33 36 42 - 50 23 19 05 -	20	5		+ + - + - - +	U.S.C.G.S.: 2°N, 79°W E 20m 06s Ecuador after shock
3	1	E E N N NE NE E	eP iS i iPS iSS i iSSS M F	20 58 03 21 08 14 08 33 09 08 13 40 15 58 17 10 34 08 46 -	17	3	81.2° 9020Km	+ + + + +	U.S.C.G.S.: 1 1/2°N, 79°W N 08m 19s. Ecuador after shock E 09m 23s T <sub>0</sub> = 20h 45m 49s
4	9	N	LM	23 20 - -31-					U.S.C.G.S.: 1272°N, 121°E E-W Compt. missing
5	13	N N	e M F	00 21 35 36 32 42 -	20	3		+	U.S.C.G.S.: 52°N, 175°W
6	15	E N	LM LM	02 30 - -57- 37 - -52-					U.S.C.G.S.: 44°, 147°E
7	16	N N	e LM F	06 33 - 47 - -57- 07 11 -					U.S.C.G.S.: 39°N, 142°E Light failed on E-W compt.

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No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. $\mu$	$\Delta^\circ$ km.	Dir <sup>n</sup> of Motion	Remarks Time of origin	
				h.	m.	s.						
8	Feb 17	N N N N N N	i	05	34	28				N E		
			i		35	45				+		
			i		39	37				-	Light failed on E-W compt.	
			i		40	55				-		
			i		42	52				+		
			i		45	04				+	Maximum wanting Deep focus	
			F		56	-						
9	18	E N	e	20	38	50				+		
			LM		37	-						
						-52-						
		E E	e M F		45 48 57	35 35 -	20	5				
10	22	N E N NE N E N N E E	iP	11	02	00				72.5° 8055Km	+	U.S.C.G.S.: 50 <sup>1</sup> 2° N, 175° W
			e		02	20				+		
			e		11	20				+		
			i, eS		11	27				-	T <sub>0</sub> = 10h 50m 35s	
			i		12	10				-		
			i		18	23				+		
			L		29	25						
			M <sub>1</sub>		37	30	20	3				
			M <sub>1</sub>		39	26	18	4				
			M <sub>2</sub>		40	22	15	3				
F <sub>2</sub>		42	37	15	4							
			F	12	09	-						
11	24	E E N E N	e	12	54	15						U.S.C.G.S.: 45° N, 99° E
			M <sub>1</sub>	13	00	10	15	8				
			M <sub>1</sub>		00	25	15	6				
			M <sub>2</sub>		02	50	18	16				
			M <sub>2</sub>		04	11	14	7				
			F		26	-						
12	27	N E N NE NE N E E E E NE E N N E	eP	23	40	46				88.3° 9810Km	-	U.S.C.G.S.: 21° N, 120° E
			i		41	16				-		
			i		42	18				+		
			i		44	20				+	T <sub>0</sub> = 23h 27m 56s	
			eSKS		51	17				+		
			iS		51	31				+		
			iSS		51	56				+		
			iSSS		57	38				+	Ne 57m 30s	
					24	01	26			-		
			L		13	10						
			M <sub>1</sub>		17	37	22	20				
			M <sub>1</sub>		17	45	22	30				
M <sub>2</sub>		27	32	16	16							
M <sub>2</sub>		27	55	14	17							
			F		55	-						
13	28	N E N E N N E	iS	10	09	16				+	U.S.C.G.S.: 27° N, 44° W	
			e		10	22				-		
			i		11	16				-		
			iSS		12	13				-		
			L		14	20						
			M		17	22	15	3				
			M		17	42	15	6				
			F		35	-						

Natural Philosophy Department,  
Marischal College,  
Aberdeen.

A.E.M.Geddes



# SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN



March, 1958

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 19.0 mm N-S <del>18.1 mm</del>	8/11/56		
E		1 lb.	10 sec.	20 : 1	150				

  

No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. $\mu$	$\Delta^\circ$ km.	Dir <sup>n</sup> of Motion		Remarks Time of origin			
				h.	m.	s.									
1	Mar 9	N E E	e e e F	11	46	10 25				N	E	U.S.C.G.S.: 34°S, 178 1/2°W Effect very slight			
													12	05	20
2	11	E NE NE N NE NE E E N N N N E E N	iP i i iPP i iS i i i i i i eL L M <sub>1</sub> M <sub>1</sub> M <sub>2</sub> M <sub>2</sub> F	00	38	51 14 40 12 01 04 04 20 11 55 22 59 35 45 31 14 24 41 -			81.7° 9080Km	+	+	N 38m 54s U.S.C.G.S.: 25 1/2°N, 125°E E 42m 19s N 50m 27s			
													39	14	
													39	40	
													42	12	
													43	01	
													49	04	
													50	04	
													50	20	
													53	11	
													54	55	
													55	22	
													01	00	59
													01	04	35
													01	07	45
													01	16	31
01	18	14													
01	22	24													
01	26	41													
02	50	-													
3	14	N N	e M F	00	39	35 57	22	6				U.S.C.G.S.: 12 7/2°N, 123 7/2°E No E-W record available			
													01	00	-
4	15	N E E N	L L M M F	01	09	25 15 15 12	20	14					U.S.C.G.S.: 23 7/2°N, 122°E		
														10	15
														12	15
														14	12
5	15	E N N E	e e i i F	06	40	- 45 42 53 -						B.C.I.S.: 40 3/4°N, 20 3/4°E Effect very slight			
													40	45	
													42	42	
													42	53	
6	20	E E N N	e e iP iS	01	42	25 53 32 57		72.8° 8090Km		+	+	U.S.C.G.S.: 51°N, 173°W E 59m 00s			
													48	53	
													49	32	
													58	57	



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No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Dir <sup>n</sup> of Motion	Remarks Time of origin
				h.	m.	s.					
6	Mar. 20 (contd)	N N E N E E	iPS i i L L M M F	02	59 04 07 12 14 21 25 48	37 19 59 35 - 32 47 -	20 18	6 4	N E + +	T <sub>0</sub> = 01h 38m 04s	
7	22	E N E E	e e e M F	10	23 41 51 58	40 - - 57	15	3	+ +	U.S.C.G.S.: 23 <sup>1</sup> / <sub>2</sub> °N, 94 <sup>1</sup> / <sub>2</sub> °E Disturbed by shaking of building especially on N-S component.	
8	22	E N E N	e e M M F	11	32 34 42 42 50	40 40 43 54 -	13 13	2 3		U.S.C.G.S.: 35 <sup>1</sup> / <sub>2</sub> °N, 67°E	
	28	NE N N	e i i F	12	14 26 27 41	45 18 19 -			+ - +	U.S.C.G.S.: 37°N, 71°E Very slight E 27m 29s	
10	31	NE E	L M F	16	39 41 50	- 50 -	20	5		? Seismic	

Natural Philosophy Department,  
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A.E.M. Geddes

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April, 1958

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 <del>E-W</del>	E-W 25.2.58
E	1 lb.	10 sec.	20 : 1	150	19.0 mm <del>N-S</del>	N-S 20.5.58

No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. $\mu$	$\Delta$ km.	Dir <sup>n</sup> of Motion	Remarks Time of origin
				h.	m.	s.					
1	2	NE N	e M F	21 30 - 54 40 22 05 -	20	3			N E	U.S.C.G.S.: 35 <sup>1</sup> / <sub>2</sub> °S, 105 <sup>1</sup> / <sub>2</sub> °W	
2	3	NE N NE N E	iS i L M M F	02 32 31 33 58 36 55 39 05 40 02 03 11 -	15 15	15 16	21.6° 2400Km		- + - -	U.S.C.G.S.: 41°N, 207 <sup>1</sup> / <sub>2</sub> °E T <sub>0</sub> = 02h 23m 43s	
3	3	N E N E	e e M M F	07 30 30 39 15 39 30 43 12 56 -	12 10	2 2			-	U.S.C.G.S.: 35°N, 27 <sup>1</sup> / <sub>2</sub> °E	
4	4	N	L F	16 38 - 17 00 -							U.S.C.G.S.: 57 <sup>1</sup> / <sub>2</sub> °S, 152°E No effect on E-W compt.
5	7	NE NE F N E N E	i, eP iS i i L M M F	15 39 25 47 23 48 42 54 49 16 03 27 07 10 08 23	15 20	174 137			- + - -	U.S.C.G.S.: 66 <sup>1</sup> / <sub>2</sub> °N, 157°W	
			F	merges into the next shock							
6	7	E E N N E	i i L M M F	18 25 15 31 15 47 25 54 23 54 34	15 15	29 32					F merges into next shock
7	7	NE N E	eL M M F	19 40 30 45 53 49 45 21 30 -	16 15	55 45					U.S.C.G.S.: 45°N, 98°E
8	8	N E N	L eL M F	00 40 - 43 - 47 56 01 00 -	16	2					U.S.C.G.S.: 66 <sup>1</sup> / <sub>2</sub> °N, 155 <sup>1</sup> / <sub>2</sub> °W

The times given in results 5 to 10 inclusive, i.e. from 5th to 11th April, are doubtful, through failure of minute break.



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No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Dir <sup>n</sup> of Motion	Remarks Time of origin	
				h.	m.	s.						
#9	9	NE E N	e i i F	06	49	-				N E	U.S.C.G.S.: 56 <sup>1</sup> / <sub>2</sub> °N, 139°W U.S.C.G.S.: 38 <sup>1</sup> / <sub>2</sub> °N, 142 <sup>1</sup> / <sub>2</sub> °E	
					52	12						
					56	18						
				07	00	-						
#10	11	NE E N E E N	i i e L M M F	01	11	14	15 16	5 4		+ + - - +		
					19	56						
					22	10						
					42	24						
					47	30						
					49	00						
				02	20	-						
11	11	N E NE N	iP i iS i F	23	22	47			72.8° 8090Km	+ + - +	U.S.C.G.S.: 48°N, 152 <sup>1</sup> / <sub>2</sub> °E T <sub>0</sub> = 23h 11m 20s No definite maximum	
					27	49						
					32	12						
					33	08						
				24	25	-						
12	12	NE E N N E E N	iS eSSS L M <sub>1</sub> M <sub>1</sub> M <sub>2</sub> M <sub>2</sub> F	12	08	52	16 16 14 14	9 16 14 11		+ - +	U.S.C.G.S.: 26 <sup>1</sup> / <sub>2</sub> °N, 111°W	
					16	44						
					22	50						
					29	05						
					31	35						
					36	00						
				13	22	-						
13	12	NE NE	e M F	14	10	50	20	3			U.S.C.G.S.: 25°N, 126°E	
					15	12						
					15	15						
14	13	E N E N E	iS i e M M F	09	24	48	17 15	3 2	56.0° 6220Km	- - - - +	U.S.C.G.S.: 66°N, 156°W	
					25	00						
					38	45						
					41	03						
					43	43						
15	13	N E NE N E E E N	iP e iS i iSSS L M M F	12	40	18	20 20	16 16	69.6° 7735Km	+ + + + +	U.S.C.G.S.: 53°N, 161°E E 50m 30s	
					40	23						
					49	26						
					50	26						
					56	45						
					13	00						25
				06	13							
				09	43							
				15	10	-						
16	14	NE NE NE E N E E E N	iP iS i i i L M <sub>1</sub> M <sub>2</sub> M <sub>2</sub> F	21	44	57	23 18 18	36 24 16	82.2° 9135Km	- - - - +	U.S.C.G.S.: 1°N, 79 <sup>1</sup> / <sub>2</sub> °W T <sub>0</sub> = 21h 32m 37s	
					55	12						
					55	23						
					56	06						
					22	05						51
				16	42							
				18	56							
				19	04							
				24	41	-						

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No	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. "	$\Delta^\circ$ km.	Dir <sup>n</sup> of Motion		Remarks Time of origin	
				h.	m.	s.							
17	15	NE	iP	01	43	12		82.5° 9165Km	N	E	U.S.C.G.S.: 1°N, 79 <sup>1</sup> / <sub>2</sub> °W T <sub>0</sub> = 01h 30m 51s Repetition of 21h 44m 57s		
		N	iS		53	29			-	-			
		NE	i		53	42				+		+	
		E	i		56	22				-		-	
		E	L	02	11	40							
		E	M		14	56	20		4				
18	15	N	iS	04	14	37		78.1° 8680Km	+	+	U.S.C.G.S.: 9°N, 84°W T <sub>0</sub> = 03h 52m 44s		
		E	i		14	51				+		+	
		N	iPS		15	17							
		E	iSS		19	51						+	
		NE	L		27	25							
		N	M		34	51	20		12				
19	19	N	e	04	43	35					U.S.C.G.S.: 26 <sup>1</sup> / <sub>2</sub> °N, 110 <sup>1</sup> / <sub>2</sub> °W No definite maximum on N-S compt.		
		E	M		49	42	15		2				
			F		55	-							
20	20	N	e	00	02	30			-	+	? Seismic		
		E	e		03	00				-		-	
		E	i		18	40						-	-
		N	i		35	02						-	-
		E	i		35	12							+
			F	02	24	-							
21	21	N	e	21	21	55			+		U.S.C.G.S.: 15°S, 174 <sup>1</sup> / <sub>2</sub> °W		
		N	M <sub>1</sub>		28	53	22		3				
		E	M <sub>1</sub>		31	55	19		6				
		N	M <sub>2</sub>		35	00	20		5				
			F <sub>2</sub>		58	-							
22	23	N	i	23	02	48			-		U.S.C.G.S.: 4 <sup>1</sup> / <sub>2</sub> °S, 104°E No maxima		
		E	e		02	53				-		-	
		E	iPPS		05	13						+	+
		N	i		09	38				+			
		E	i		11	02						-	-
			F		51	-							
23	23	N	e	03	40	30					U.S.C.G.S.: 45°N, 152°E Obscured by microseisms		
		E	i		46	38							
24	27	N	e	19	40	30					U.S.C.G.S.: 52 <sup>1</sup> / <sub>2</sub> °N, 169°W No E-W record available		
		N	M <sub>1</sub>		47	47	17		2				
		N	M <sub>2</sub>		54	07	17		2				
			F <sub>2</sub>	20	03	-							
25	28	NE	i, e	12	10	42			-	-	U.S.C.G.S.: 11°S, 74°W Obscured by shaking of building		
		E	iS		11	32						+	
		N	i		14	37						-	-
		E	e		19	45							
		E	M		36	13	21		3				
		N	M		37	05	21		3				
26	30	N	i	14	15	07			+		U.S.C.G.S.: 37 <sup>1</sup> / <sub>2</sub> °N, 14°W No E-W record available		
		N	i		16	55						-	
		N	L		18	15							
		N	M		19	01	15		5				
			F		40	-							

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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.

May, 1958

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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	25.2.58
E	1 lb.	10 sec.	20 : 1	150	19.0 mm	N-S	N-S	20.5.58

  

No	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir <sup>n</sup> of Motion	Remarks Time of origin
1	1	N N N N N N N N	e ePP i iSKS iPSKS e L M F	00 49 04 50 57 51 52 55 42 01 01 12 08 42 02 03 45 08 -	15	2	136° 15110Km	N - - - - - - +	U.S.C.G.S.: 13 1/2° S, 16 7/2° E
2	3	N N N N	i i M <sub>1</sub> M <sub>2</sub> F	20 28 43 30 53 35 15 38 40 53 -	15 12	2 2		+ +	U.S.C.G.S.: 37° N, 21 1/2° E
3	5	N N N	eS L M F	05 34 44 43 40 48 00 06 01 -	17	2		+	U.S.C.G.S.: 36 1/2° N, 45 1/2° E
4	6	N N N	eSS eL M F	00 18 48 26 20 30 51 42 -	15	2	59.5° 6610Km	-	U.S.C.G.S.: 57 1/2° N, 136 1/2° W
5	7	N N N N	i i L M F	07 38 48 39 44 41 38 42 48 51 -	12	3		+ -	
6	8	N N	e LM F	02 57 10 58 58 ) 03 03 - ) 09				-	U.S.C.G.S.: 45 1/2° N, 28° W
7	9	N N N N	i i L M F	02 54 39 55 51 57 50 03 00 58 11 -	12	3		+ -	U.S.C.G.S.: 37° N, 27 1/2° E

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No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir <sup>n</sup> of Motion	Remarks Time of origin
8	May 10	N N N N	eSS e L M F	23 16 03 21 38 26 30 31 52 24 10 -	17	3		N E - -	U.S.C.G.S.: 65°N, 152 <sup>1</sup> / <sub>2</sub> °W
9	11	N N N N	iSS e L M F	05 45 11 51 03 55 00 06 01 06 35 -	17	4		-	U.S.C.G.S.: 65°N, 152 <sup>1</sup> / <sub>2</sub> °W
10	18	N N N N N N N	iPP iSKP i i iPPS e M F	02 54 59 55 51 03 00 37 03 54 07 50 43 30 52 25 04 54 -	20	5	135.5° 15055Km	+ -	U.S.C.G.S.: 13°S, 167°E
11	18	N N N N N	iSKP i i e M F	12 44 02 13 14 05 18 54 42 30 57 52 14 35 -	17	4	135.5° 15055Km	- - +	U.S.C.G.S.: 13°S, 167°E
12	22	N N	e M F	16 16 50 23 16 35 -	18	2			U.S.C.G.S.: 3°S, 146°E
13	25	N N N	e e L F	15 22 26 28 34 38 - 58 -				- +	U.S.C.G.S.: 51 <sup>1</sup> / <sub>2</sub> °N, 177°W No definite maximum. Obscured by shaking of building.
14	25	N	e F	18 00 45 29 -				+	U.S.C.G.S.: 31°N, 129 <sup>1</sup> / <sub>2</sub> °E Very slight
15	25	N N N N N	e iS i L M F	21 34 41 34 49 35 13 51 30 57 43 22 47 -	20	3		+ - +	U.S.C.G.S.: 3°S, 77°W
16	30	E N E E E E N	iPS e e i L M M F	18 25 42 30 55 35 48 38 17 45 15 52 30 52 35 19 49 -	16 17	4 4		+ +	U.S.C.G.S.: 52 <sup>1</sup> / <sub>2</sub> °N, 169°W
17	31	N E NE E N NE N	ePKP e i iPP i i i	19 51 55 52 40 53 35 54 36 54 45 55 41 56 54			137.5° 15280Km	- - + + - + +	U.S.C.G.S.: 15°S, 169°E T <sub>0</sub> = 19h 32.5m

# SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir <sup>n</sup> of Motion	Remarks Time of origin
17	May 31 (contd.)	NE	iSKS	58 45				N E	N.B. E-W Component not registering freely from 1st to 25th May <hr/>
		E	i	20 03 05				- +	
		N	iPPS	06 50				+ +	
		E	iSS	13 05				- -	
		E	e	27 25				+ +	
		N	i	28 52				-	
		N	L	36 25					
		N	M	45 53	22	27			
		E	M <sub>1</sub>	50 59	25	39			
		E	M <sub>2</sub>	59 04	19	22			
			F <sup>2</sup>	22 48 -					
						A. E. M. Geddes			
						Natural Philosophy Department, The University, Aberdeen.			

# SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

June, 1958

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 19.0 mm N-S	E-W	25.2.58
		1 lb.	10 sec.	20 : 1	150	18.1 mm	N-S	20.5.58

  

No	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir <sup>n</sup> of Motion	Remarks Time of origin	
1	3	NE N E N E N E NE NE E N E N E	eP	19 51 34			143.3° 15920Km	N	E	U.S.C.G.S.: 21°S, 168°E  T <sub>0</sub> = 19h 32.0m
			e	54 07				-	-	
			ePP	54 40				+	-	
			e	56 50				-	-	
			ePPP	58 35				-	+	
			e	20 00 51				+	-	
			eSKKS	01 35				-	+	
			i, ePPS	07 20				-	-	
			eSS	13 40				-	+	
			L	43 45						
			L	44 45						
M <sub>1</sub>	50 07	15	3							
M	20 00 55	20	3							
M <sub>2</sub>	07 03	18	3							
F	21 45 -									
2	4	N N N N N N N	eP	14 41 07			69.7° 7745Km	-	E	U.S.C.G.S.: 52 <sup>1</sup> / <sub>2</sub> °N, 167°W  T <sub>0</sub> = 14h 29.9m  No E-W record
			i	43 43				+	-	
			eS	50 15				+	-	
			ePS	50 44				-	-	
			e	54 25				-	-	
			L	15 04 30	16	5				
			M F	11 45 16 25 -						
3	5	N N E	eL	13 39 30						B.C.I.S.: 37°N, 21 <sup>1</sup> / <sub>2</sub> °E
			M	44 52	15	2				
			M	47 43	15	2				
			F	57 -						
4	6	E E NE N N NE E N	e	09 23 49					+	U.S.C.G.S.: 8°N, 85°W
			ePP	26 11				-	-	
			iS	33 32				-	-	
			iPS	34 02				+	-	
			eSS	38 32				-	-	
			L	41 40						
			M	48 59	25	26				
			M F	53 39 11 09 -	20	16				
5	6	E N NE E E E	e	19 29 40					+	U.S.C.G.S.: 57 <sup>1</sup> / <sub>2</sub> °N, 82 <sup>1</sup> / <sub>2</sub> °W
			e	30 07				-	-	
			i	37 58				-	+	
			iPS	38 40				-	+	
			L	53 30						
			M F	01 05 47 -	20	5				

## KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Dir <sup>n</sup> of Motion		Remarks Time of origin
				h.	m.	s.						
6	June 7	E	e F	14	34	30			N	E	South Pacific No effect on N-S	
7	√8	NE E N N E	eS e L M M F	00	59	07			-	+	U.S.C.G.S.: 53°N, 167°W	
					09	40				+		
					19	-	18	2				
					28	53	15	2				
					29	07						
					52	-						
8	9	NE E E N	e L M M	21	26	55			+	+	B.C.I.S.: 7°N, 33°W	
					32	50						
					34	39	15	3				
					35	44	12	2				
9	10	NE	e F	08	42	30						
					47	-						
10	12	E N NE E NE N E N N N E	e eP i e iS iPS i eSSS L M M F	21	02	43		69.3° 7700Km	+	-	U.S.C.G.S.: 53°N, 167°W T <sub>0</sub> = 20h 53m 9s	
					04	08			-	-		
					06	08			-	-		
					07	18			-	+		
					13	23			-	-		
					13	56			-	-		
					14	20			-	+		
					20	43			-	-		
					27	30	17	12				
					37	05	14	7				
					39	55						
					23	50						
11	15	N N	e i F	15	22	-			-	+	U.S.C.G.S.: 18°S, 178 <sup>1</sup> / <sub>2</sub> °W	
					31	08						
					35	-						
12	17	E E	e M F	19	46	20				+	U.S.C.G.S.: 25°N, 142 <sup>1</sup> / <sub>2</sub> °E	
					49	49	22	7				
					20	19						
13	18	E E E E E	iP e eS L M F	01	18	12		13.6° 1510Km	+	+	B.C.I.S.: 68 <sup>3</sup> / <sub>4</sub> °N, 17 <sup>1</sup> / <sub>4</sub> °W T <sub>0</sub> = 01h 15m 02s No N-S available	
					20	07	14	20				
					21	37						
					22	57						
					02	07						
14	18	E E	eP M F	02	26	27			+		B.C.I.S.: 68 <sup>3</sup> / <sub>4</sub> °N, 17 <sup>1</sup> / <sub>4</sub> °W Repetition of No. 13	
					31	57	14	7				
					57	-						
15	18	E E E	e L M F	04	37	17			+		B.C.I.S.: 68 <sup>3</sup> / <sub>4</sub> °N, 17 <sup>1</sup> / <sub>4</sub> °W Repetition of No. 13.	
					40	42						
					41	54	15	10				
					05	12						
16	18	NE E N	e M M F	19	51	10						
					52	52	11	2				
					53	59	10	2				
					20	04						
17	19	E N N	ePP e iS	05	32	00		72° 8000 Km	+	+	U.S.C.G.S.: 49 <sup>1</sup> / <sub>2</sub> °N, 156°E	
					32	57						
					38	42						

## KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Dir <sup>n</sup> of Motion		Remarks Time of origin
				h.	m.	s.						
17	19	E E N N E E	i e L M M F	39 46 58 06 03 07 10 50 -	05 52 07 07 17	20 17	5 4		N	E + +		
18	23	E N NE E N	e i L M M F	05 32 38 37 41 25 47 23 47 32 06 09 -	55 37 25 23 32	15 13	5 3		+	+	U.S.C.G.S.: 49°N, 102°E	
19	23	NE NE	e M F	07 22 27 35 36 -	55 35	10	2					
20	24	N N N	i i M F	05 08 16 10 20 55 32 -	47 10 55	15	2		+	-	No E-W record	
21	24	N N	e M F	07 39 48 50 08 00 -	30 50	17	2					
22	25	NE N E NE NE E N	ePP eSKP i iPPS e L M M F	09 56 58 05 10 05 08 03 22 45 37 30 50 07 50 19 12 45 -	50 05 20 03 45 30 07 19	18 19	62 37	120° 13335Km	+	+	U.S.C.G.S.: 3°S, 144 <sup>1</sup> / <sub>2</sub> °E T <sub>o</sub> = 09h 36.6m	
23	26	E NE NE N NE	e iS i e LM F	04 49 58 00 58 57 05 05 22 - ) -28 - ) 56 -	55 00 57 25				-	-	U.S.C.G.S.: 54 <sup>1</sup> / <sub>2</sub> °N, 159 <sup>1</sup> / <sub>2</sub> °E	
24	26	NE E N N E	iSKKS e e M M F	23 53 24 17 24 10 33 45 33 55 40 -	01 25 10 45 55	15 15	2 2				U.S.C.G.S.: 31°N, 141 <sup>1</sup> / <sub>2</sub> °E	
25	27	E E	e M F	06 23 26 00 31 -	- 00	20	3				No N-S record	
26	30	N N N N	e e L M F	08 53 54 48 57 - 09 00 07 -	11 48	11	2		+	-	U.S.C.G.S.: 36 <sup>1</sup> / <sub>2</sub> °N, 27 <sup>1</sup> / <sub>2</sub> °E No E-W record	





# SEISMOLOGICAL BULLETIN



## KING'S COLLEGE OBSERVATORY, ABERDEEN

July, 1958

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	L-W	25.2.58			
		1 lb.	10 sec.	20 : 1	150	19.0 mm N-S	N-S	20.5.58			
No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir <sup>n</sup> of Motion	Remarks Time of origin		
1	July 3	N	i	05 57 49			94.8° 10540Km	N E	U.S.C.G.S.: 18°S, 66°E.		
		E	e	05 59 02				-		+	
		N	i	06 03 52				+		+	
		NE	e, iSKS	08 57				+		+	
		NE	eS	09 45				+		+	
		E	L	33 50							
2	4	E	e	18 52 30	20 15	5 3		+	U.S.C.G.S.: 6°N, 125°E.		
		E	ePPP	18 54 30				+			
		N	e	19 06 40				-		Very slight effect.	
		NE	L	26 -							
		N	M	34 00				20			3
		E	M	38 44				20			3
3	6	E	e	04 59 46	15	2		+	U.S.C.G.S.: 55°N, 160½°W.		
		E	M	05 02 41						Traces only on N-S compt.	
		F	05 -								
4	8	E	e	23 44 30	15 17	2 2		+	U.S.C.G.S.: 43°S, 41½°E.		
		N	e	23 48 50							
		E	M	51 51							
		N	M	56 50							
5	10	NE	iP	06 26 04	15 15	653 726	58.5° 6500Km	+	U.S.C.G.S.: 58½°N, 136°W.		
		E	i	27 28				+		N i 27m 34s.	
		NE	iPP	28 25				-			
		E	iPPP	29 32				+		N i 29m 54s.	
		NE	iS	34 09				+			
		E	iPS	34 55				+		T <sub>0</sub> = 06h 16.2m	
		N	i	37 04				+			
		N	iSS	38 19				-		E 38m 29s.	
		E	M	48 29							
		N	M	52 19							
6	10	NE	e	15 26 -	13	2.5		+			
		NE	M	28 43							
		F	34 -								



## KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Dir <sup>n</sup> of Motion	Remarks Time of origin	
				h.	m.	s.						
7	July 11	E E E E E	e	19	34	27	20	5	96° 10665Km	N - +	U.S.C.G.S.: 21°S, 69°W. Very slight on N-S compt	
			iSKKS		34	53						
			iPPS		36	38						
			eSS		41	44						
			e		45	20						
8	12	E E	e	01	40	40	20	3			U.S.C.G.S.: 5°S, 106½°W.	
			M		46	00						
			F		54	-						
9	17	E N E E E N	iP	05	42	17	15 14	4 3	23.4° 2710Km	- +	- +	U.S.C.G.S.: 40½°N, 23°E. N i 46m 34s. T <sub>0</sub> = 05h 37m 10s.
			iPP		42	37						
			iS		46	26						
			L		49	37						
			M		51	22						
			M		51	29						
			F	06	22	-						
10	✓17	N N	e	19	43	35	15	2			U.S.C.G.S.: 51°N, 176°W. No E-W record available.	
			M		55	43						
			F	20	09	-						
11	✓18	N N N	e	00	56	45	17	4			U.S.C.G.S.: 51°N, 176½°W No E-W record available.	
			e	01	05	15						
			M	02	27	45						
12	19	NE E E NE NE N NE NE N E	ePP	18	36	08	22 24	26 39	111.2° 12355Km	- +	+	U.S.C.G.S.: 0°, 129½°E. T <sub>0</sub> = 18h 17m 00s.
			ePPP		38	36						
			iSKS		42	10						
			e		42	55						
			ePS		45	39						
			i		49	01						
			eSS		51	50						
13	21	E N NE E NE E N	iP	07	36	39	22 16	6.5 4	75.8° 8420Km	+	+	U.S.C.G.S.: 44½°N, 147½°W T <sub>0</sub> = 07h 24m 56s.
			i		36	50						
			oS		46	25						
			e		56	40						
			L	08	06	30						
			M		15	52						
			M		17	58						
F		57	-									
14	21	N E NE N E N E	iP	14	48	40	20 18	4 3	71.5° 7945Km	+	+	U.S.C.G.S.: 51½°N, 178°W E 58m 40s. T <sub>0</sub> = 14h 37m 21s.
			e		49	00						
			e, iS		57	58						
			iPS		58	30						
			e	15	03	00						
			L		14	45						
			M		21	00						
M		26	50									
F	16	08	-									
15	23	N NL NL	eP	10	40	03			87° 9665Km	-	+	U.S.C.G.S.: 31°N, 142°E.
			iPP		43	33						
			iSKKS		50	47						

## KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. "	$\Delta^{\circ}$ km.	Dir <sup>n</sup> of Motion		Remarks Time of origin		
				h.	m.	s.								
15	July 23 (contd)	N E N E NE N L	iPS iSS eSSS e L M M F	10	51	35	17 15	6 11		N	E	$T_0 = 10h\ 27m\ 17s.$		
										+	+			
										+	-			
16	24	N N	e M F	13	50	30	20	3			+	U.S.C.G.S.: $52\frac{1}{2}^{\circ}N$ , $170^{\circ}W$ . Traces only on E-W compt.		
				14	55	42								
17	25	NE E N E NE	e e i i M F	15	42	45	15	2		-	+	Ne $04m\ 33s.$ Disturbance irregular.		
18	26	E N E N	e e M M F	07	12	28	20 20	4 5		+	+	U.S.C.G.S.: $40^{\circ}S$ , $45\frac{1}{2}^{\circ}E$ .		
19	26	N NE N E NE NE E N NE E E	iP i i i iPP iS iSP i i i M F	17	49	00	15	14.5	$89^{\circ}$ 9900Km	+	+	U.S.C.G.S.: $13\frac{1}{2}^{\circ}S$ , $69^{\circ}W$ . $T_0 = 17h\ 37m\ 11s.$ Deep focus. N $20m\ 58s.$		
20	27	E N NE	e e M F	18	38	25	10	2			-	U.S.C.G.S.: $55^{\circ}N$ , $34\frac{1}{2}^{\circ}W$ .		
21	29	N E E N	i i M M F	21	55	05	15 17	3 3		+	+	U.S.C.G.S.: $4^{\circ}N$ , $26\frac{1}{2}^{\circ}W$ .		
22	30	NE E N	e M M F	03	31	25	17 15	2 2						

Natural Philosophy Department,  
Marischal College,  
Aberdeen.

A. E. M. Geddes

# SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

August, 1958

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	25.2.58	
E	1 lb.	10 sec.	20 : 1	150	19.0 mm N-S	N-S	20.5.58	

  

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir <sup>n</sup> of Motion	Remarks Time of origin
1	Aug. 3	E	LM	01 46 - -57 -				N E	U.S.C.G.S.: 21 1/2° S, 179° W Traces only: No N-S
2	4	N N N N N	e eSKS i e M F	04 32 37 38 29 39 38 05 12 40 30 42 50 -	15	2		- + -	U.S.C.G.S.: 6° S, 130° E Effect slight No trace on E-W Compt.
3	6	N N N	e eL M F	22 21 - 25 - 33 20 41 -	20	2			U.S.C.G.S.: 12° S, 167° E
4	12	E	LM	17 05 30 -18-					U.S.C.G.S.: 1/2° S, 126° E No effect on N-S compt.
5	12	N E NE N E N N E	iPP e eSKS ePS L L M M F	19 44 16 44 20 50 22 53 26 20 18 30 19 30 31 26 34 06 21 20 -	22 20	13 16	109.9° 12210 Km	+ + + +	U.S.C.G.S.: 0°, 126 1/2° E Ee 53m 45s
6	13	E E	e M F	04 53 20 05 00 30 15 -	20	3			U.S.C.G.S.: 1/2° N, 126° E No effect on N-S compt.
7	13	E N NE E N E	e e i L M M F	07 49 30 51 20 08 01 11 05 20 05 52 08 20 24 -	15 15	3 3		+ - +	U.S.C.G.S.: 36 1/2° N, 66 1/2° E
8	13	NE NE E N	i, e L M M F	20 33 53 57 40 21 04 15 04 40 27 -	15 15	1.5 1.5		+ +	U.S.C.G.S.: Solomon Islands

## KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir <sup>n</sup> of Motion	Remarks Time of origin	
9	14	E NE NE E NE E N	e e e L M M F	11 36 20 40 50 43 45 46 10 50 40 53 32 55 30 12 27 -	20 18	7 6	N E - - - - - - + -	U.S.C.G.S.: 34 <sup>1</sup> / <sub>2</sub> °N, 46°E		
10	14	N NE NE N N E	i e i,e L M M F	15 06 33 08 24 15 17 39 00 46 53 47 27 17 55 -	18 16	9 7	- - + + - - - - - - - - - -	U.S.C.G.S.: 52°N, 175°W		
11	15	N NE E N NE NE N N E N N	iP i ePP i iS iPS L M <sub>1</sub> M <sub>1</sub> M <sub>2</sub> M <sub>2</sub> F	20 06 41 07 12 09 18 12 22 15 43 16 14 30 25 40 36 45 46 55 41 57 15	17 15 20 25	10 6 16 22	68.7° 7635Km - + + + + - - + + - - - - - - - - - - -	U.S.C.G.S.: 53°N, 160 <sup>1</sup> / <sub>2</sub> °E T <sub>0</sub> = 19h 55m 40s N 15m 39s N 16m 18s		
				Lost in succeeding shock						
12	15	N E N N N NE NE E E N N N N E E	eP iPP iPPP iSKS iSKKS i i iSS i i i M <sub>1</sub> M <sub>1</sub> M <sub>2</sub> M <sub>2</sub> F	22 43 42 47 51 50 23 53 45 55 02 56 33 57 36 23 03 23 04 11 12 00 12 48 23 10 23 35 26 10 28 11 25 25 -	35 33 22 25	105 138 79 91	108° 12000Km + - + - + - - + - - - - + + + + - - - - - - - - - - - -	U.S.C.G.S.: 17 <sup>1</sup> / <sub>2</sub> °N, 125°E iN 47m 38s iE 53m 40s iE 04m 06s		
13	16	NE E N NE N E	eS eSS eSSS eL M M F	13 38 37 42 58 46 07 57 20 14 04 22 08 27 15 05 -	15 15	1.5 1.5	- - - + + - - - - - - - - -	U.S.C.G.S.: 51 <sup>1</sup> / <sub>2</sub> °N, 176°W		
14	16	E N NE NE NE E NE N E	iP i iPP iS e, iSS iSSS L M <sub>1</sub> M <sub>1</sub>	19 21 24 21 27 22 52 27 32 30 14 30 54 36 20 40 32 41 09	24 20	86 82	40.3° 4480Km - - - + - - + - - + - - - - - -	U.S.C.G.S.: 34 <sup>1</sup> / <sub>2</sub> °N, 48°E T <sub>0</sub> = 19h 13m 45s N 30m 57s		

## KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. "	$\Delta^\circ$ km.	Dir <sup>n</sup> of Motion	Remarks Time of origin
				h.	m.	s.					
14	16 (contd)	N E	M <sub>2</sub> M <sub>2</sub> F	19 41 57 42 41 21 45 -	20 20	63 82			N E		
15	16	E N	e LM F	22 07 - 10 - -22- 38 -							
16	17	E E	eL M F	09 58 20 10 20 22 32 <sub>6</sub> -	15	2				U.S.C.G.S.: 51 <sup>1</sup> / <sub>2</sub> °N, 176°W N-S record hidden by overlap	
17	17	N NE NE NE E E N	e e ePS i L M M F	18 18 12 23 15 31 17 33 14 19 01 40 15 25 16 24 20 24 -	17 20	8 5			+ + - - + + -	U.S.C.G.S.: 3°S, 145 <sup>1</sup> / <sub>2</sub> °E Ee 33m 20s	
18	17	E N N E	e e M M F	22 53 30 54 20 59 30 23 00 35 11 -	15 15	1.5 1.5				U.S.C.G.S.: 35 <sup>1</sup> / <sub>2</sub> °S, 179 <sup>1</sup> / <sub>2</sub> °W	
19	19	NE E E E	eSKS iPS i iSS F	22 13 55 17 42 20 15 24 37 33 -			120.5° 13280Km	- + - - - -		U.S.C.G.S.: 1°S, 149 <sup>1</sup> / <sub>2</sub> °E Ne 24m 45s	
20	20	N E N E E N E	ePP e iSKP i eSS M M F	04 02 15 02 45 03 05 04 37 20 25 05 05 20 06 35 06 02 -	17 16	2 2	137° 15220Km	- + - + + + + +		U.S.C.G.S.: 14°S, 167°E Ni 04m 45s Ni 21m 25s Amplitudes all very small	
21	20	E E N	e M M F	09 39 15 41 30 42 15 46 -	20 13	3 3				U.S.C.G.S.: 24°N, 122°E	
22	22	E	LM	13 44 30 -51-						U.S.C.G.S.: 11 <sup>1</sup> / <sub>2</sub> °S, 97°W	
23	27	E E	e M F	03 17 30 21 20 28 -	20	1				U.S.C.G.S.: 4 <sup>1</sup> / <sub>2</sub> °S, 104 <sup>1</sup> / <sub>2</sub> °W	
24	27	E	e F	13 28 15 44 -						U.S.C.G.S.: 53 <sup>1</sup> / <sub>2</sub> °N, 159 <sup>1</sup> / <sub>2</sub> °E Doubtful on N-S through shaking of building	
25	27	NE NE E N	iP i iS i	15 21 56 23 06 26 11 26 19			24.1° 2680Km	+ - + - + - + -		U.S.C.G.S.: 38°N, 20 <sup>1</sup> / <sub>2</sub> °E T = 15h 16m 42s M <sub>2</sub> 26m 22s	

## KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Dir <sup>n</sup> of Motion	Remarks Time of origin
				h.	m.	s.					
25	Aug. 27 contd.	NE	iSS	27	23				N E		
		N	i	30	38				+ +		
		E	i	30	58				+ +		
		N	M	34	03	11	23				
		E	M	37	14	11	35				
			F	16	55	-					
26	29	E	LM	12	45	-				U.S.C.G.S.: 14 <sup>1</sup> / <sub>2</sub> °S, 167°E	
					-59-						
27	30	E	e	19	17	30					U.S.C.G.S.: 27 <sup>1</sup> / <sub>2</sub> °N, 112°W
		NE	L	20	-						
		E	M	25	55	12	3				
		N	M	28	18	13	4				
			F	43	-						
28	31	N	i	23	09	59					U.S.C.G.S.: 63°N, 144 <sup>1</sup> / <sub>2</sub> °W
		N	iPP	12	04						
		NE	iS	17	52						
		E	e	21	34						
		N	eSS	21	49						
		NE	L	29	14						
		N	M	33	34	20	5				
		E	M	36	16	15	3				
	F	54	-								

Natural Philosophy Department,  
The University,  
Aberdeen.

A.E.M.Geddes



# SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

September, 1958

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	25.2.58	
		1 lb.	10 sec.	20 : 1	150	19.0 mm. N-S	N-S	20.5.58	
No	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. "	$\Delta$ km.	Dir <sup>n</sup> of Motion	Remarks Time of origin
1	Sept 2	E NE E N E N E	iPP iS i i L M M F	01 19 09 23 14 24 01 27 36 29 30 33 18 34 00 46 -	10 10	2 4		N E + - - - +	U.S.C.G.S.: Near Coast of Greece
2	2	E E	e M F	20 47 12 55 06 21 12 -	17	4			U.S.C.G.S.: 15°N, 92½°W. Traces only on N-S compt
3	3	N N NE E E NE N E N E	iP i iS i eSSS L M <sub>1</sub> M <sub>1</sub> M <sub>2</sub> M <sub>2</sub> F	03 54 22 58 02 04 02 20 04 15 08 17 12 - 15 07 17 07 23 47 29 56 05 16 -	20 15 15 14	8 14.5 8 8.5	58.0° 6445Km	- + - + - - +	U.S.C.G.S.: 0, 18°W.
4	3	NE NE E E N	e eS L M M F	08 23 10 32 17 47 50 56 09 56 12 09 33 -	20 20	5 5	78.1° 8680Km	- - + -	U.S.C.G.S.: 40½°N, 143°E
5	4	E N E NE N E	e e eSS e M M F	00 12 07 14 05 15 10 19 47 21 14 25 02 30 -	15 12	2 2		- + - +	U.S.C.G.S.: 37°N, 26½°E.
6	4	N N L NE N N	e e eSKS i eSS eSSS	22 10 00 13 06 16 13 19 16 24 58 29 13			106.8° 11,865Km	+ + + - - - + + -	U.S.C.G.S.: 33½°S, 69½°W eN 16m 21s.

## KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir <sup>n</sup> of Motion	Remarks Time of origin
Sept. (contd.)							N E	
4	E E E N	L M <sub>1</sub> M <sub>2</sub> M F	43 - 22 48 45 56 05 56 21 24 54 -	 22 18 17	 26 22 18			
5	E	e F	13 51 50 14 04 -					U.S.C.G.S.: 5°S, 102°E No effect on N-S compt.
8	NE	e F	05 46 07 59 -				- -	U.S.C.G.S.: 53½°N, 159°E
11	E N N E	e e M M F	18 55 10 56 40 19 08 03 08 11 24 -	  18 18	  3.5 4.5			U.S.C.G.S.: 7½°N, 126½°E
14	NE E NE E E N E	iS i eSS eSSS L M M F	14 39 32 41 24 43 18 45 30 51 25 56 22 56 24 15 43 -	    17 16	    12 13	58° 6445Km	+ + - - - -	U.S.C.G.S.: 56½°N, 120½°E. T <sub>0</sub> = 14h 21m 34s.
15	NE NE NE E N NE N	ePP iSKS i e e e M M F	20 03 20 08 23 09 42 11 30 12 02 16 20 48 20 50 17 21 18 -	     20 20	     2.5 2.5	105° 11,665Km	+ + + + + + + - - -	U.S.C.G.S.: 2½°N, 120½°E. Deep focus
18	N E N E	e L M M F	15 06 50 10 40 11 58 13 13 23 -	 14 20	 4 4		-	U.S.C.G.S.: ½°N, 30°W.
18	NE N	i M F	15 30 08 40 21 16 04 -	15	4		- -	? seismic
20	NE E	e M F	18 16 - 24 07 51 -	20	2.5			U.S.C.G.S.: 6½°S, 154½°E.
22	N E E E N N	iSKKS iPSKS iSS L M(I) M(II) F	19 36 05 40 13 49 40 20 24 50 33 20 49 50 21 03 -	   22 20	   6.5 2.5		+ - -	U.S.C.G.S.: 33½°S, 177½°W (I) 42°N, 142°E (II) Two shocks I and II
23	NE							Irregular disturbance from 20h 59m to 23h 00m: may not be seismic.

## KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Dir <sup>n</sup> of Motion		Remarks Time of origin
				h.	m.	s.				N	E	
17	Sept. (contd.) 24	N E E NE E N	iS i eSS L M M F	04	02	41 54 04 10 46 11	15 15	8 5	60.5 6720Km	+	+	U.S.C.G.S.: 59½°N, 143½°W.
18	25	N NE E E N NE NE N E	i iS iScS i i iSS L M M F	07	30	17 47 49 48 24 07 - 49 55 -	20 17	19 42	56° 6220Km	+	+	U.S.C.G.S.: 9°N, 39½°W. E 37m 52s
19	27	NE										Irregular disturbance from 10h 19m to 11h 48m. ? seismic.
20	28	N NE NE N E E N	e e e i L M M F	10	43	10 50 50 35 30 42 08 -	18 20	7 5		- + + -	- -	? seismic

Department of Natural Philosophy,  
Aberdeen University.

A. E. M. Geddes



# SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

October, 1958

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 25.2.58
E	1 lb.	10 sec.	20 : 1	150	19.0 mm. N-S	N-S 20.5.58

No	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ <sup>o</sup> km.	Dir <sup>n</sup> of Motion	Remarks Time of origin
1	Oct 1	E N N E	e e M M F	10 58 50 11 02 40 07 47 10 50 24 -	20 18	3 4.5		N E U.S.C.G.S.: 57°S, 147°E	
2	1	E	i F	16 51 57 54 -				- U.S.C.G.S.: 71 1/2°N, 3 1/2°W No readable effect on N-S component	
3	7	NE NE E N	eS e M M F	13 00 58 34 48 42 53 51 48 14 13 -	20 20	5 4		- - U.S.C.G.S.: 5°S, 151 1/2°E	
4	12	NE NE E	e i LM F	15 40 54 42 39 16 07 - -11- 20 -				+ + U.S.C.G.S.: 27 1/2°N, 125 1/2°E - - No definite maximum on N-S component.	
5	20	N E N E N	i e i e e F	01 39 17 39 37 43 35 02 20 32 24 27 40 -				- U.S.C.G.S.: 9 1/2°S, 112 1/2°E + + All effects very slight	
6	28	N E E NE NE	iS e iSS L M F	11 05 29 06 29 09 49 19 - 23 49 12 00 -	E 22 N 17	16 ) 12 )		+ U.S.C.G.S.: 30 1/2°N, 85°E - +	
7	29	N E E N E NE E N E E	iS i iSS e eSSS e L M M <sub>1</sub> M <sub>2</sub> F	08 04 54 04 59 09 42 09 49 12 34 20 40 29 - 32 54 34 43 36 39 09 31 -	16 16 15	8 9 10		71.5° 79 1/2° Km - U.S.C.G.S.: 51 1/2°N, 179 1/2°E + + Perhaps more than one shock	

Natural Philosophy Department,  
University of Aberdeen,  
Scotland.

A.E.M.Geddes.



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.	Dir <sup>n</sup> of Motion	Remarks Time of origin
	Dec							N E	
7	25	E N E N	L L M M F	09 08 03 12 34 17 34 21 24 34 -	20 20	6 7			U.S.C.G.S.: 57 <sup>1</sup> / <sub>2</sub> °S, 151 <sup>1</sup> / <sub>2</sub> °E
8	28	E E N E E E E E N	eP iPPP e iS iSS eL M M F	06 05 43 06 18 06 33 09 28 10 23 11 23 12 53 13 10 23 -	12 15	10 5	20.2° 2245Km	+ + - +	
							A.E.M.Geddes		
Natural Philosophy Department, Marischal College, Aberdeen.									

