

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

JANUARY - MARCH, 1956

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

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

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

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. "	Δ° km.	Direction of Motion	Remarks Time of origin	
1	Jan. 22	N	ePP	14 40 17	20	36	64.7 7190Km	N E	U.S.C.G.S: 56.0°N, 153.7°W No E-W record available	
		N	ePPP	42 09				-		
		N	eS	46 31				+		
		N	ePS	47 08				-		
		N	i	48 18				+		
		N	iSS	51 26				-		
		N	i	56 13				-		
		N	L	58 17				-		
		N	M	15 06 56						
		F	16 10 -							
2	24	E	eP	07 45 23	17	6	37.0° 4110Km	+ +	eN 46m 21s eN 54m 11s	
		E	ePP	46 26				- -		
		NE	i	48 11				+ -		
		NE	iS	51 11				- -		
		E	eSS	53 33				+ +		
		E	eSSS	54 01				- -		
		E	L	56 18						
		N	M	59 41						
		E	M	18 02 03						
		F	16 -							
3	28	NE	eSKS	06 08 20	20	6.8	139.5° 15500Km	+ -	U.S.C.G.S: 17.1°S, 168.4°E	
		E	iSKKS	10 46				- -		
		N	iS	12 16				+ +		
		N	iPPS	16 21				- +		
		NE	eSS	21 20				+ +		
		E	e	43 40						
		E	M ₁	59 19						
		E	M ₂	07 05 11						
			F	58 -						
4	February 5	E	iP	02 09 12	20	35.5	24.6° 2735Km	+ +	39.0°N, 21.9°E	
		E	i	09 26				- -		
		E	i	11 57				+ +		
		NE	iS	13 32				+ -		
		N	iSS	14 32				+ +		
		N	M ₁	15 12						
		E	M ₁	15 44						
		N	L	16 07						
		N	M ₂	18 46						
			F	35 -						
								16		20.5

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Directions of Motion		Remarks Time of Origin	
				h.	m.	s.				N	E		
February (contd.)													
5	5 ✓	NE	e	15	52	20				-	-	Record hidden by microseisms	
		NE	i		55	22				+	-		
		E	M		57	02	15	18					
		N	M		59	24	7	9					
		F		16	05	-							
6	7 ✓	E	iS	04	43	22			55.4°		-	U.S.C.G.S: 29.8°N, 69.7°E	
		NE	iSSS		49	12			6155Km	+	-		
		E	L		53	02							
		NE	M ₁		57	57	N 25	56					
							E 22	36					
		NE	M ₂	05	02	40	N 20	41					
		F		23	-	E 15	34						
7	7 ✓	E	eP	23	16	17			55.4°		+	U.S.C.G.S: 30.2°N, 69.8°E	
		NE	e		17	08			6155Km	+	-		
		E	i		25	02							
		E	eSSS		29	27					+		eN 29m 16s
		N	L		34	12							
		N	M ₁		38	52	25	52					
		N	M ₁		39	04	22	36					
		N	M ₂		45	37	18	30					
		E	M ₂		45	40	14	27					
		F		24	30	-							
8	9 ✓	N	e	05	11	17				+	+	U.S.C.G.S: 56.7°S, 25.7°W	
		E	e		27	21					+		
		N	i		38	22							
		N	M		52	50	15	7.5			+		eE 38m 27s
		F		06	14	-							
9	10 ✓	E	e	14	45	00					+	U.S.C.G.S: 26.1°N, 103.2°E	
		NE	e		50	02					+		
		E	i		53	02					+		iN 53m 12s
		E	L	15	08	50							
		E	M		14	47	23	10.5					
		N	M		15	07	22	6.5					
		F		41	-								
10	13 ✓	E	eL	11	27	25						U.S.C.G.S: 26.1°N, 103.2°E	
		E	M		31	47	21	7.5					N-S record very slight
		F		47	-								
11	16 ✓	N	iSKKS	03	47	40			139.5°		+	U.S.C.G.S: 17.7°S, 167.9°E	
		N	ePSKS		51	15			15500Km		+		
		E	ePPS		53	08							
		NE	i		56	18					+		
		E	e		59	13					+		eN 59m 47s
		E	L	04	25	33							
		E	M ₁		30	50	20	5.5					
		N	M ₁		36	30	20	8.2					
		E	M ₂		45	00	20	8.2					
		F	05	40	-								
12	17 ✓	E	eSSS	12	28	10						U.S.C.G.S: 32.2°S, 78.9°E	
		E	L		44	-							
		E	M		56	40	20	4					
		F		13	13	-							
(Records 18th to 28th not available)													

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Comprt	Phase	Time G.M.T.			Period sec.	Ampl. " "	Δ° km.	Directions of Motion		Remarks Time of Origin	
				h.	m.	s.				N	E		
13	MARCH 6	E	iP	02	26	05			61.3° 6810Km	N	E	U.S.C.G.S: 31.6°N, 80.5°E T ₀ = 02h 15m 52s No N-S record available	
		E	ePP		28	25							
		E	PPP		29	48							
		E	iS		34	25							
		E	i		35	10							
		E	iPS		36	08							
		E	eSS		38	35							
		E	eSSS		40	25							
		E	L		46	15							
14	7	E	eP	01	27	09			33.3° 3700Km	N	E	U.S.C.G.S: 39.1°N, 41.7°E T ₀ = 01h 20m 27s Turkish shock	
		E	ePP		28	09							
		E	e		30	32							
		E	eS		32	29							
		E	e		33	32							
		E	L		36	44							
		E	M		39	45	18	15.5					
		E	F		02	05	-						
		15	7	N	e	21	42	00					
N	ePP				43	43							
N	ePPP				44	58							
N	iS				50	13							
N	iPS				50	33							
NE	eSS				54	43							
E	eSSS				57	36							
N	L				22	01	58						
N	L					05	-						
N	M ₁					09	50	23	40				
N	M ₂					14	19	14	47				
E	F			15	35	14	86						
16	8	E	e	06	35	30				N	E	U.S.C.G.S: 1.9°N, 126.4°E	
		N	e		39	18							
		E	L		38	50							
		NE	M		46	20	E 17	10					
		F			07	04	-	N 20		5.5			
17	12	NE	iP	16	44	04			83.5° 9280Km	N	E	T ₀ = 16h 31m 38s iN 47m 09s iE 49m 20s	
		E	i		46	19							
		E	iPP		47	14							
		N	PPP		49	09							
		NE	iS		54	26	N 9	12.2					
		E	iPS		55	19							
		NE	iSS		17	00	54						
		E	i			05	19						
		N	i			06	34						
		E	L			10	34						
		E	M			19	44	22		131			
		N	M			19	59	22		113			
18	20	N	iP	01	55	41			63.9 7100Km	N	E	T ₀ = 01h 45m 11s No E-W record available Minute break at fault Times doubtful	
		N	iPP		58	11							
		N	iS		02	04	16						
		N	iPS		05	01							
		N	eSS		08	36							
		N	e		12	30							
		N	LQ		16	18							
		N	LR		19	36							
		N	M			24	16	17		104			
		F			03	40	-						

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. "	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.				N	E	
19	21	N	eP	08	30	57				N	E	U.S.C.G.S: 37.5°N, 115.1°E T ₀ = 08h 19m 36s Remarks as in previous
		N	i		31	17			71.9°	+	-	
		N	iS		40	17			7990Km	+	+	
		N	iPS		40	51				+	+	
		N	iSS		44	57				-	-	
		N	iSSS		48	11				-	-	
		N	L		54	17						
		N	M		09	04	17	10	75			
			F		50	-						
20	23 ✓	N	iPPP	00	27	52			71.9°	-	-	T ₀ = 00h 12m 20s
		N	i		29	34			7990Km	-	-	
		N	L		46	47						
		N	M		52	32	20	24.5				
			F		01	06	-					
21	26 ✓	N	o	15	47	57				+		
		N	i		51	39				-		
		NE	e		59	17				-	-	
		E	M	16	04	02	10	8				
		N	M		04	42	15	9.5				
			F		23	-						

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ROYAL OBSERVATORY
15 SEP 1966
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SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

APRIL - JUNE, 1966

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. *JD!*

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

No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. "	Δ° km.	Direction of Motion	Remarks Time of origin
				h.	m.	s.					
1	✓ 8	N	i	01	57	56	25	11	72.8° 8090Km	N E - - - + +	U.S.C.G.S: 51.2°N, 157.7°E iE 07m 28s
			eP		58	38					
			iS	02	08	03					
			eSS		13	38					
			eSSS		16	38					
			L		23	18					
			M		27	28					
2	8	E	eP	05	56	53	20	13.5 8	18.8° 2090Km	+ -	U.S.C.G.S: 52.7°N, 33.2°W
			eS	06	00	18					
			L		01	53					
			M		02	38					
			M		03	41					
3	8	N NE	e	22	47	48	20	2.5			U.S.C.G.S: 56.8°N, 151.9°W Very slight effect
			M		51	33					
			F	23	06	-					
4	11	E	eP	23	10	43	15	3	64.7° 7190Km	+ +	U.S.C.G.S: 56.6°N, 152.0°W
			ePPP		15	20					
			eS		19	23					
			L		29	38					
			M ₁		36	25					
			M ₂		40	43					
			M ₂		43	53					
5	13	N	eP	00	03	38	18	22	89.5° 9945Km	- + - + - +	No E-W record available
			ePP		06	38					
			eSKS		12	48					
			ePS		14	48					
			eSS		20	28					
			eSSS		24	53					
			L		36	43					
			M		43	45					
6	13	N	i	03	50	26	17	2	112.2° 12465Km	+ + + +	U.S.C.G.S: 38.2°S, 73.2°W
			ePP		54	28					
			eSKKS	04	01	43					
			i		36	23					
			M		40	18					
			F		54	-					

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. " "	Δ° km.	Directions of Motion		Remarks Time of Origin			
				h.	m.	s.				N	E				
7	April 16 ✓	(continued)	NE	i, eP	01	37	40		64° 7110Km	-	-				
			E	iS		46	19						+		
			E	ePS		46	55							-	
			N	eSS		50	50						-		
			N	eSSS		53	00						+		
			E	L		58	25								
			E	M ₁	02	02	53	20		5.5					
			N	M ₁		08	55	20		13.5					
E	M ₂		10	10	15	8									
			F ²		35	-									
8	20 ✓	E	eP	16	49	02		34.2° 3800Km	-	-	U.S.C.G.S: 41.7°N, 48.2°E				
		E	eS		54	32									
		E	L		57	17									
		E	M ₁	17	02	47	20		4				No N-S record		
		E	M ₂		04	52	20		7						
			F ²		29	-									
9	22	E	M ₁	04	09	47	20	2.5			U.S.C.G.S: 37.8°S, 73.4°W				
		E	M ₂		13	37	20	2.5							
			F ²		26	-						N-S record very slight			
10	22	N	eS	23	46	33			-	-	U.S.C.G.S: 57.5°N, 152.1°W				
		E	e	24	02	43									
		N	e		03	53									
		E	M		08	53	15	3							
		N	M		09	08	15	5							
			F		15	-									
11	23 ✓	N	eSKS	00	34	35		108.8° 12090Km	-	-	U.S.C.G.S: 0.9°S, 122.4°E				
		E	eSKKS		35	38									
		E	eS		36	13									
		E	ePS		37	38									
		N	iPPS		38	48									
		NE	eSS		43	43							+		
		E	L		59	28									
		N	M ₁	01	06	08	30		62.5						
E	M ₁		08	11	25	48									
NE	M ₁		19	02	20	E 36									
			F ²		50	-									
12	23 ✓	E	i	09	53	28		108.5° 12055Km	-	-	U.S.C.G.S: 0.5°S, 122.2°E				
		E	e		55	33							+		
		E	L		57	45									
		E	L	10	02	43									
		E	M		05	03	23		5				N-S record hidden by overlapping		
			F		22	-									
13	27 ✓	N	eSS	20	03	35					+ U.S.C.G.S: 38.2°N, 42.7°E Turkey Effect very slight				
		E	L		06	25									
		N	M		10	40	15	1.5							
			F		29	-									
14	May, 1966 1	NE	eP	16	36	01		87.7° 9745Km	+	+	U.S.C.G.S: 8.5°S, 74.3°W				
		N	iPP		39	01									
		E	e		42	36									
		NE	iSKS		45	51									
		E	iSKKS		46	40									
		N	ePS		46	59									
		E	eSS		52	33							+		
		N	eSSS		56	08								eN 52m 23s	
			F		17	08	-								

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.						
15	May 4	N N N N	eS	06	46	33	10	2	23.9° 2655Km	+	N E +	U.S.C.G.S: 39.1°N, 21.8°E Greece
			e		48	38						
			L		52	08						
			M F	07	01	-						
16	4	N N N N	eS	07	48	28	13	2.5	23.9° 2655Km	+	N E +	U.S.C.G.S: 39.0°N, 21.8°E Greece
			e		50	08						
			L		51	28						
			M F	08	02	-						
17	4	N E NE	e	22	04	48	12	2	86.3° 9590Km	+	N E -	U.S.C.G.S: 37.7°N, 27.9°E Turkey
			e		05	41						
			M F		09	03 16						
18	5	N N E E N NE E N	ePP	14	37	26	19	22	86.3° 9590Km	+	N E +	U.S.C.G.S: 24.4°N, 122.6°E eE 50m 48s
			ePPP		39	40						
			eSKS		44	18						
			ePS		45	48						
			eSS		50	18						
			L	15	02	53						
			M F		09	23 09 48 16 30						
19	7	E E E E	ePPP	13	15	03	15	3	27.5° 3055Km	+	N E +	U.S.C.G.S: 37.8°N, 27.9°E Turkey
			eS		18	48						
			eSS		20	23						
			M		25	36						
			F		35	-						
20	9	E E E E	eS	00	54	00	20	22	29.7° 3300Km	+	N E +	U.S.C.G.S: 34.5°N, 26.5°E No N-S: Clock under repair
			e		56	55						
			L		59	24						
			M F	01	00	33 22						
21	11	E E	i	14	59	38	20	16.5	72.6°	-	N E	U.S.C.G.S: 48.9°N, 156.2°E No N-S; clock under repair
			M		15	06 54						
			F		47	-						
22	18	E N E N	e	08	11	46	15	3	72.6°	-	N E +	U.S.C.G.S: 25.0°N, 109.0°W
			e		12	02						
			M		14	54						
			M F		15 24 31 -							
23	25	N E	ePPP	13	49	54	15	4	72.6°	+	N E	U.S.C.G.S: 52.9°S, 160°E Very slight
			e		53	19						
			F		14	20 -						
24	28	NE N E N	e	00	48	00	20	5.5	72.6°	+	N E +	U.S.C.G.S: 24.4°N, 122.5°E
			e		48	46						
			M		51	58						
			M		52	01						
			F	01	09	-						

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. " "	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.				N	E	
25	JUNE 6 ✓	1966	NE	iP	07	54	58		51.5° 5720Km	-	-	U.S.C.G.S: 36.3°N, 71.2°E iN 56m 53s iN 06m 00s
			E	i		56	13					
			E	iPP		57	00					
			NE	iPPP		58	04					
			NE	i	08	02	03					
			NE	iPS		03	18					
			E	iSS		06	28					
			N	i		08	38					
			NE	L		11	41					
			N	M		18	03					
			E	M		20	56					
				F	09	23	-					
					13	26						
					17	34						
26	6		NE	i, ePP	21	05	08			-	+	U.S.C.G.S: 9.6°N, 126.4°E eN 20m 13s
			NE	ieSKS		11	38					
			E	iS		12	43					
			E	ePPS		14	58					
			E	eSS		19	44					
			N	e		24	45					
			N	L		38	09					
			E	M		45	38					
			N	M		52	53					
				F	22	05	-					
					20	4						
					18	3.3						
27	7 ✓		N	eP	01	13	08		94° 10445Km	-		U.S.C.G.S: 15.0°S, 75.8°W eN 25m 13s
			NE	ePP		16	47					
			NE	e		19	43					
			NE	i, eSKS		23	24					
			N	eS		24	13					
			E	ePS		25	23					
			NE	eSS		30	33					
			N	L		43	30					
			N	e		49	46					
			E	M		54	23					
	F	02	50	-								
					20	5.5						
					18	5.6						
28	7 ✓		N	eP	14	13	43		104.8° 11645Km	+		U.S.C.G.S: 11.3°N, 139.6°E iN 25m 23s
			NE	i, ePP		17	53					
			NE	ePPP		20	23					
			NE	i, e		21	04					
			N	iSKS		24	23					
			E	eSKKS		25	03					
			N	e		32	11					
			N	iSS		33	05					
			E	eSSS		37	23					
			NE	L		48	23					
			N	M ₁		58	30					
			E	M ₁	15	00	18					
N	M ₂		02	53								
E	M ₂		03	38								
	F	16	44	-								
					23	74						
					23	74						
					22	49						
					18	47						
29	11		NE	e	03	45	05			-	+	
			E	M		48	48					
			N	M		49	03					
				F	04	06	-					
					20	11						
					20	8						

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.				N	E	
JUNE (contd.)												
30	13	NE	ePKP	18	27	38			134.5° 14945Km	+	-	U.S.C.G.S:12.2°S,167.1°E Deep focus Ne 39m 58s
		NE	ePP		30	03				-	+	
		N	iSKP		30	58				+		
		E	ePPP		33	41					-	
		NE	eSKS		34	58				+	-	
		N	eSKKS		37	33				-		
		E	eS		39	23				-	-	
		E	eSS		48	53					+	
		N	eSSS		53	08				+		
		F	19	43	-							
31	15	NE	ePKP	01	19	13			131.6° 14620Km	-	-	U.S.C.G.S:10.4°S,160.8°E iN 40m 49s iN 45m 03s
		NE	i,ePP		21	28				+	+	
		NE	iSKP		22	23				-	+	
		N	iPPP		24	28				-		
		E	SKS		26	20					-	
		E	SKKS		28	17					-	
		E	iPPS		34	06					-	
		E	iSS		39	20					-	
		E	iSSS		44	13				+	-	
		NE	L	02	02	36				+	-	
		E	M		16	31	18	133				
		N	M ₁		09	49	21	106				
N	M ₂		26	03	20	96						
		F	04	55	-							
32	22	NE	ePKP	20	48	04			124.5° 13835Km	-	-	eE 11m 49m
		NE	ePP		49	49				-	-	
		N	eSKP		50	39				+		
		NE	iPPP		52	52				-	-	
		NE	i		54	06				-	-	
		NE	iSKKS		56	50				-	-	
		N	iS		57	54				+		
		N	i		58	46				-		
		E	iPPS	21	00	54					+	
		NE	i,eSS		06	44				+	-	
		N	eSSS		11	41				-	+	
		NE	L		28	24						
		E	M		36	42	17	8				
N	M		38	39	15	5						
		F	22	14	-							
33	27	E	e	11	10	27				+	No N-S record	
		E	i		19	27				+	Alterations in progress	
		E	i		33	04				-		
		E	M		38	02	17	54				
			F		12	45	-					Phases doubtful
34	28	E	eP	04	47	44			60° 6665Km	-		No N-S record Actual times doubtful
		E	ePP		49	45				-		
		E	ePPP		51	02				+		
		E	eS		56	03				+		
		E	eSSS	05	02	02						
		E	L		06	27						
		E	M		11	31	15	11				
	F		44	-								

Natural Philosophy Department,
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Aberdeen.

A. E. M. Geddes



SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

JULY - SEPTEMBER

Lat. 57°10' N. Long. 2°6' W. Height above M.S.L. 12M. Lithologic Foundation: Glacial deposit over boulder clay. 1966

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

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

No.	Date	Compt.	Phase	Time G.M.T.			Period sec.	Ampl. "	Δ° km.	Direction of Motion	Remarks Time of origin	
				h.	m.	s.						
1	July 4	E	iP	12	21	03			26.2° 2910Km	N	E	U.S.C.G.S: 37.5°N, 24.8°W
		E	iPPP	22	03							
		NE	e, iS	25	36							
		N	i	26	17							
		E	eSS	26	55							
		E	L	27	58							
		N	M	31	11	10	8					
		E	M	31	18	10	10					
		F	13	30	-							
2	4	E	eP	18	45	00			71.5° 7945Km			U.S.C.G.S: 51.7°N, 179.9°E No N-S record available
		E	iPP	47	32							
		E	ePPP	49	07							
		E	iS	54	18							
		E	i	54	27							
		E	iPS	54	46							
		E	iSS	58	55							
		E	i	19	01	12						
		E	L ₁	03	46							
		E	M ₁	08	12	22	65.5					
		E	L ₂	20	25							
E	M ₂	25	52	15	64.5							
		F ₂	22	00	-							
3.	10	NE	i, eS	16	37	25			108° 12000 Km			?U.S.C.G.S: 24.2°N, 125.2°E ? 87.6° = 9735Km eE 39m, 20s. eE 50m 45s
		N	iPS	38	50							
		E	eSS	44	25							
		N	eSSS	49	20							
		E	L	17	02	50						
		N	M	10	15	15	13					
		E	M	10	37	17	20					
			F	43	-							
4	12	E	eP	18	58	58			27.6° 3065Km			U.S.C.G.S: 44.6°N, 37.4°E
		N	ePP	59	48							
		E	iS	19	03	45						
		E	iSS	05	08							
		E	L	06	57							
		E	M	11	28	20	11					
	F	30	-									

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.						
5	July 19 ✓	(Contd).	E	eP	01	52	14		92.0° 10220Km	N	E	
			E	ePP		55	50			+ +	eN 52m 22s	
			E	e		58	25			+ -	eN 55m 27s	
			NE	e	02	00	36			+ -	T _o = 01.39.05	
			E	eS		03	17			+ +	iN 03m 27s	
			E	ePS		04	12			+ +	U.S.C.G.S: 56.2°N, 164.9°E = 66.3° by polar route	
			N	ePPS		04	42			+ +		
			NE	i,e		08	27			+ -		
			E	eSS		09	37			+ +		
			E	eSSS		13	27			+ +		
			NE	L		23	20					
			N	M		29	22	15		8		
			E	M		30	22	15		7		
	F		03	15	-							
6	22	N	eP	10	28	40		71.0 7890 Km	-	-	U.S.C.G.S: 51.7°N, 175.5°W eE 28m 49s T _o = 10.17.24	
		NE	e		30	49			+ -			
		NE	i,e		35	35			- +			
		E	eS		37	55			+ +			
		NE	iePS		38	36			+ +			
		E	e		42	24			+ +			
		N	eSSS		45	34			+ +			
		E	M		58	54	20		2.5			
N	M		11	02	34	15	3					
	F		18	-								
7	27	E	iSKS	05	13	18				-	U.S.C.G.S: 24.2°S, 70.3°W	
		E	eSKKS		13	55			-			
		E	ePS		15	40			-			
		E	ePPS		16	20			-			
		E	eSSS		25	25			-			
		E	L		36	40						
		E	M		43	35	20	2.5				
	F		54	-								
8	August 7 ✓	NE	iP	02	24	29		72.7° 8080Km	+ -		T _o = 02h 13m 03s eE 27m 22s	
		N	ipP		24	54			- -			
		N	iPP		27	17			+ +			
		N	iPPP		28	57			- -			
		NE	iS		33	54			+ -			
		E	iPS		34	34			+ -			
		N	iSS		38	57			+ -			
		E	eSSS		41	27			- +			
		N	L		47	52			- -			
		N	M ₁		55	49	18		20			
		N	M ₁		58	20	20		30			
		E	M ₂		59	37	18		18			
			F		04	23	-					
9	7	E	e	04	37	47				+ +		
		N	e		37	57			- -			
		N	e		40	47			- -			
		N	M		43	37	20	6				
		E	M		53	32	18	3.5				
			F		05	15	-					

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. " "	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.						
August (Cont).												
10	7 ✓	N	ePP	17	50	52				N	E	U.S.C.G.S: 31.8°N, 114.5°W No E-W record
		N	ePPP		52	52				-		
		N	iS		57	42				+		
		N	eSS	18	02	27				-		
		N	eSSS		06	17				+		
		N	i		09	31				-		
		N	L		12	27				+		
		N	M ₁		16	49	15	20				
		N	M ₂ F ²		21	34	15	29				
			19	35	-							
11	9	NE	Traces	22	40	-						
				23	30	-						
12	12	E	eP	15	40	33					+	U.S.C.G.S: 53.7°N, 35.1°W Slight effects.
		E	e		42	53					+	
		N	eS		43	48				-		
		E	L		45	30						
		E	M		46	35	20	4				
		N	M F		48	28	12	3.5				
13	12	E	e	16	02	28					+	
		N	e		10	23					+	
		E	M		17	02	17	3				
		N	M F		18	25	12	4.5				
			30	-								
14	14	N	Traces	05	30	-						? Seismic
				06	03	-						
15	15 ✓	E	eSSS	03	21	20					+	U.S.C.G.S: 13.3°N, 121.3°E No N-S record
		E	e		28	00					+	
		E	L		32	55						
		E	M		38	42	24	15.6				
		E	F		04	10	-					
16	16 ✓	E	e	18	18	36					+	? U.S.C.G.S: 37.4°N, 114.2°W
		E	e		20	36					-	
		E	e		31	07					+	
		E	e		33	51					+	
		E	L		38	57						
		E	M		43	25	15	3.5				
		E	F		19	20	-					
17	16	E	e	21	05	31						? U.S.C.G.S: 37.2°N, 114.3°W
		E	M		10	31	20	2.5				
		E	F		30	-						
18	18 ✓	E	iP	10	45	11			76.0°		-	U.S.C.G.S: 14.6°N, 91.7°W iN 55m 13s
		N	e		45	43			84.5Km		-	
		E	iS		54	53					+	
		E	ePS		55	43					+	
		NE	L	11	03	45						
		E	M		13	48	25	17				
		N	M		15	45	20	5.5				
		E	F		46	-						



KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. "	Δ° km.	Directions of Motion	Remarks Time of Origin	
				h.	m.	s.						
August (Contd).												
19	18	N NE E E	e L M ₁ M ₂ F ₂	15	20	30 26 35 33 03 43 45 59 -	20 20	5.5 7		N -	E -	U.S.C.G.S:0.2°S,125.1°E N L 33m 45s
20	18	N NE E N	i L M ₁ M ₂ F ₂	15	27	20 30 45 37 40 43 53 59 -	20	5.5				U.S.C.G.S:0.1°S,125.1°E N L 37m 55s(20.1° 4.0)
21	19	NE E NE NE E E E N E N	iP iPP ePPP iS i iSS L M ₁ M ₁ M ₂ F ₂	12	28	53 29 48 30 23 34 13 34 53 35 57 38 38 45 23 46 26 47 43 15 57 -	15 17 10	242 240 121	32.8° 3645Km	- - - + + - -	- - + - +	U.S.C.G.S:39.2°N,41.7°E iN 35m 53s
22	20	N N N N NE NE N N N E	iP iPP iPPP iS iPS iSS M L M M F	12	11	35 12 37 13 24 17 04 17 29 19 34 20 59 21 36 24 32 26 08 13 26 -	12 12 12	34 32	34.0° 3780Km	- - - + - + -	- - -	eE 11m 09s eE 13m 36s iE 17m 14s
23	21	E E E	e L M F	00	20	29 22 34 26 36 48 -	20	5.5			-	N-S, no effect
24	21	NE N E N E E N	iS e eSS L L M M F	01	40	54 41 47 42 56 44 44 45 34 47 56 48 39 02 05 -	16 18	3.5 4.5	33.4° 3710Km	+ + -	- +	U.S.C.G.S:39.2°N,41.8°E eN 42m 24s
25	21	NE	Traces	05	50	- 06 15 -						

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. "	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.						
August (Contd).												
26	22	N	e	18	01	53				N	E	
		N	e		07	00				-		
		N	e		10	30				+		No E-W record available
		N	e		14	55				-		
		N	M		24	45	15	1.5				
		N	F		41	-						
27	22 ✓	N	e	18	45	45				-		
		N	e		51	05				-		
		N	e		54	35				+		
		N	e		59	50				-		
		N	L	19	03	55						
		N	M ₁		09	34	17	7				
		N	M ₂		18	45	20	8				
		N	F ²		59	-						
28	22	N	eP	21	53	00				-		U.S.C.G.S: 71.9°N, 11.4°W
		N	eSS		56	35				-		
		N	L		57	15						
		N	M		58	23	10	1				
		N	F	22	13	-						
29	26	E	i	12	30	36				-	-	iN 34m 11s
		E	i		34	00				-	-	? Seismic
		NE	L		41	56						
		N	M		51	26	45	144				
		E	M		51	31	45	87				
		E	F		56	-						
30	31	E	e	18	21	55						
		E	M		24	07	13	6.5				
		E	F		32	-						
September												
31	1	E	eS	01	44	42		14.8°		-		U.S.C.G.S: 71.8°N, 2.8°W
		E	M		47	01	14	3	1645Km			No N-S record
		E	F		54	-						
32	1 ✓	NE	eP	14	28	22		25.4°		-	-	U.S.C.G.S: 37.5°N, 22.1°E
		NE	ieS		32	49		2820Km		+	-	
		NE	iSS		33	43				-	+	
		NE	L		36	17						
		N	M		38	45	15	6.5				
		E	M		38	47	20	8				
		E	F	15	05	-						

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Comot	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.				N	E	
	September		(Contd)									
33	8 ✓	E	e	21	33	32				N	E	U.S.C.G.S: 2.4°N, 128.4°E
		NE	iPP		34	41		108.6°	-	-		
		N	iPPP		37	08		12065Km	-	-		
		E	iSKS		41	00					+	
		N	iSKKS		41	38			-			
		E	iPS		44	08					+	
		N	ePPS		44	58			+			
		NE	iSS		49	53			+		+	
		N	iSSS		54	33			+			
		E	L	22	07	48						
		E	M ₁		17	58	28					
		N	M ₁		18	45	26	56				
		E	M ₂		22	00	24	71				
		N	M ₂		22	00	24	51				
		F	F	23	07	-						
34	12 ✓	NE	iPKP	11	49	15				-	+	U.S.C.G.S: 23.1°S, 170.6°E
		N	iPP		52	35		145.7°	+			
		E	eSKP		52	50		16190Km			+	
		NE	i		54	30			+		-	
		N	eSKS		56	05			-			
		NE	iSKKS		59	20			+		-	
		N	iPSKS	12	02	50			+			
		E	ePPS		05	30					+	
		N	iSS		12	50			-			
		E	e		15	55					+	
		NE	L		48	30						
		E	M		58	00	20	5.5				
		N	M		58	00	15	2.4				
		F	F	13	35	-						
35	12 ✓	NE	e	17	14	05				-	+	U.S.C.G.S: 39.4°N, 120.1°W
		NE	L		15	00						
		E	M		20	40	15	6.4				
		N	M		22	43	12	7				
		F	F		37	-						
36	15	N	eSKS	12	51	50				+		U.S.C.G.S: 10°S, 160.8°E
		E	eSKKS		53	05					+	
		E	e		55	55						
		E	e	13	02	00						
		N	M		04	10	20	11				
		F	F		24	-						
37	15	NE	e	17	56	50				-	+	
		N	M	18	06	55	15	11				
		E	M		07	05	13	13				
		F	F		13	-						
38	18	NE	Traces	21	12	-						
					29	-						
39	26	E	e	05	46	59					+	U.S.C.G.S: 27.5°N, 92.6°E
		N	e		51	49						
		E	M		55	41	13	2.3				
		N	M		58	54	15	2.4				
		F	F	06	05	-						

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. "	Δ° km.	Directions of Motion		Remarks Time of Origin	
				h.	m.	s.				N	E		
September (Contd)													
40	28 ✓	E	eP	14	11	45				N	E	U.S.C.G.S: 27.4°N, 100.1°E T _o = 13h 59m 51s No N-S record	
		E	ePP		14	45			77.4°		+		-
		E	i		17	35			8600Km		+		-
		E	iS		21	35					-		-
		E	ePS		22	09					-		-
		E	eSS		26	45					+		-
		E	eSSS		29	51					-		-
		E	L		37	35							
		E	M ₁		42	56	20	15					
		E	M ₂		49	36	20	19					
			F ²	15	38	-							
			Natural Philosophy Department, The University, Aberdeen.					A. E. M. Geddes					



SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

OCTOBER - DECEMBER 1966

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

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

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

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. "	Δ° km.	Direction of Motion	Remarks Time of origin	
1	October 7 ✓	E	ePSKS	16 28 12	30	6		N E	U.S.C.G.S.: 21.6°S, 170.5°E	
			e	32 32						
			iSS	36 42						
			iSSS	42 17						
			e	46 37						
			M	56 07						
			L	17 03 52						
			M	14 57						20
2	8	E	e	01 28 47	15	4		U.S.C.G.S.: 16.4°S, 177.6°W		
			M	30 17						
			F	49 -					No N-S record	
3	9	NE	eS	07 05 07	20	8		U.S.C.G.S.: 12.6°N, 30.8°E		
			i, eSS	08 52						
			eSSS	10 17						
			L	13 42						
			M	19 02						
			M	19 57						
4	14	E	e	01 18 38	20	1.5		U.S.C.G.S.: 36.4°N, 87.5°E		
			eS	23 03						
			eSSS	29 00						
			L	33 42						
			M	38 13						
			F	54 -						
5.	17 ✓	E	iP	21 55 11	20	495		U.S.C.G.S.: 10.7°S, 78.7°W		
			iPP	58 59						
			iPPP	22 00 10						
			i	04 50						
			iSKS	05 41						
			iSKKS	05 59						
			iPS	07 04						
			iPPS	07 34						
			iSS	12 05						
			iSSS	16 09						
			L	25 49						
			M	31 54						
			F	Hidden under succeeding shock						
			Final							
F	26 10 -									

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Directions of Motion		Remarks Time of Origin									
				h.	m.	s.				N	E										
6	October 19 ✓	(Contd.)	ePPP	08	15	09			58.8° 6500Km	N	E	U.S.C.G.S:16°S, 15.5°W									
			iS		19	44															
			i		20	04															
			ePS		20	19															
			i		21	49															
			eSS		23	49															
			eSSS		25	59															
			L		30	29															
7	29 ✓	NE	eP	02	44	44			23.6° 2620Km	-	+	U.S.C.G.S:39.2°N, 21.2°E T ₀ = 02h 39m 35s									
			iS		48	55															
			i		49	00															
			eSSS		50	20															
8	November 3 ✓	NE	iP	16	34	42			60°54' 6766Km			U.S.C.G.S:19.2°N, 67.9°W T ₀ = 16h 24m 31s									
			S		42	59															
			L		49	57															
			M		55	37															
			M	17	00	57							22	5 p-p							
			F	17	40	00							13	6 p-p							
			9	19	N	e							07	30	17						
						F								32	46						
10	December 28 ✓	E	P	08	31	53			100°33' 11,171Km			No N-S record L lost in changing records U.S.C.G.S:25.5°S, 70.7°W T ₀ = 08:18:07.4s									
			PP		35	58															
			SKS		42	32															
			PS		45	01															
			M	09	15	30							18	245							
			F	11	45	00								p-p							
1	31 ✓	E	SKP	18	45	57			133°48' 14,865Km			No N-S record U.S.C.G.S:11.8°S, 166.5°E T ₀ = 18:23:03.9s									
			PS		18	55															
			i		19	00															
			L		19	10															
			M		43	12							20	80p-p							
			F		21	45															
2	31 ✓	E	e	22	39	37						No N-S record									
			i		54	32															
			L		23	14															
			M		42	18							19	37p-p							
			F		01	30															

p.p. H. MUTCH
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ABERDEEN.

