

SEISMOLOGICAL BULLETIN

No. 1.

Jan.-June, 1939.

King's College Observatory,  
Aberdeen

Lat. 57°10' N.      Long. 2°6' W.      Height above M.S.L. 12 m.

Lithologic Foundation: Glacial deposit over boulder clay

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

Compts:	Mass	T <sub>0</sub>	Damping Ratio	Magnification	1" Tilt	Date from which constants apply
N	1 lb.	10 sec.	20 : 1	150	18.1 mm.	Dec. 1, 1938.
E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	Dec. 4, 1937. May 20, 1939.

Date	Component	Phase	Time G.M.T.			Period	Ampl.	△ km	Remarks
			h.	m.	s.		A E		
Jan. 3	N	i	17	51	22	s.	μ.		No E record 1d. Ch. Om. - 6d. 18h. 15m.
		F	18	2	-				
20	E	i	1	38	54				
		i		45	34				
		i		50	9				
		F		56	-				
20	NE	e	14	40	-				Confused by microseisms.
		F		53	-				
22	E	e	14	46	-				Confused by microseisms.
		F	15	0	-				
23	E	i	2	35	3				
		i		40	23				
		F		54	-				
25	NE	i	3	51	36				
	NE	i		51	46				
	E	i		57	12				
	E	i		58	51				
	NE	i	4	0	42				
	E	i		1	20				
	E	i		6	26				
	N	i		6	39				
	E	i		14	26				

## SEISMOLOGICAL BULLETIN

No. 2.

Jan. - June, 1939.

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Date	Component	Phase	Time G.M.T.			Period	Ampl.		△ km.	Remarks
			h.	m.	s.		s.	A		
Jan. 25 (Cont.)	NE	L	4	18	-					
	E	M <sub>1</sub>		24	36	35	259			
	E	M <sub>2</sub>		29	57	30	218			
	E	M <sub>3</sub>		32	32	30	135			
	N	M <sub>1</sub>		26	53	40	367			
	N	M <sub>2</sub>		28	49	27	185			
	N	M <sub>3</sub>		30	32	22	137			
	NE	M <sub>4</sub>		36	33	20	90			
		F		6	16	-				
27	NE	e	14	58	20				Very slight.	
		F	15	7	-					
27	NE	e	20	23	25				Very slight.	
		F		35	-					
30	NE	i	2	39	29					
	NE	i		40	49					
	NE	i		46	24					
	NE	i		49	31					
	N	i		56	14					
	E	i		56	41					
	NE	i	3	10	13					
	N	M		24	51	30	212			
	E	M		25	16	28	174			
		F		7	6	-				
31	N	e	0	11	30					
	NE	i		17	18					
	NE	i		21	20					
	NE	L		41	48					
	N	M		53	2	25	9			
	F		1	59	-					

## SEISMOLOGICAL BULLETIN

No. 3.

Jan. - June, 1939.

 King's College Observatory,  
Aberdeen.

Date	Component	Phase	Time G.M.T.			Period s.	Ampl. A E	△ km.	Remarks
			h.	m.	s.				
Feb. 3	NE	i	5	47	42				
	NE	i		48	53				
	E	i		50	53				
	N	i		56	54				
	N	i		58	33				
	E	i	6	5	7				
	N	i		5	18				
	N	i		10	25				
	N	i		16	23				
	NE	eL		20	30				
	N	eL		27	55				
	N	M <sub>1</sub>		33	40	25	22		
	N	M <sub>2</sub>		40	38	20	22		
	NE	M		44	56	20	21		
		F		7	57	-			Undulations in coda particularly well marked and regular.
4	N	eL	6	25	-			Very slight.	
		F		41	-				
6								No record 5h. 44m. - 8h. 28 m.	
Mar. 4	N	L	20	59	30				
		M	21	1	40	25	7		
		F		10	-				
20	N	i	3	45	26				
	NE	eL	4	2	51				
	NE	M		9	33	20	10		
		F		33	-				
21	E	i	1	25	19				
	E	i		28	19				
	E	i		34	47				
	E	i		35	22				
	N	i		35	39				

## SEISMOLOGICAL BULLETIN

No. 4.

Jan. - June, 1939.

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Date	Component	Phase	Time G.M.T.			Period	Ampl.	△ km.	Remarks
			h.	m.	s.		A E		
Mar. 21 (Cont.)	E	i	1	36	30				
	E	i		36	57				
	E	i		48	19				
	NE	L		55	30				
	N	M	2	5	39	23	63		
	E	M		7	40	24	44		
	N	M		10	49	18	44		
		F	3	6	-				
Apr. 5	N	iP	17	2	10			146.0°	
	N	i		2	18			16220	
	N	i		2	30				
	N	i		4	15				
	N	iPP		5	28				
	N	iSKKS		12	12				
	N	iPSKS		15	38				
	N	iPPS		17	58				
	N	i		21	23				
	NE	iSS		24	0				
	N	iSSS		29	55				
	N	i		37	24				
	N	L		43	-				
	N	M		54	32	30	44		
	NE	M	18	4	30	22	27		
N	M		7	21	20	28			
		F	19	24	-				
15	N	L	21	33	30				
	N	M		39	0	23	7		
		M		45	10	25	4		
		F	22	12	-				

Apr. 18

			H.	Δ.	δ.		
	E	iP	5	35	55		
	E	i		40	45		104.6°
	NE	i		47	10		
	E	iSKKS		47	55		
	N	i		48	0		
	NE	iPS		50	0		
	E	i		50	47		
	N	iSS		55	20		
	E	i		59	19		
	E	i	7	2	30		
	E	L		5	10		
	E	M <sub>1</sub>		9	25	15	130
	N	M <sub>1</sub>		9	38	10	454
	E	M <sub>2</sub>		18	56	15	73
	N	M <sub>2</sub>		19	24	15	93
	E	M <sub>3</sub>		23	42	15	90
	N	M <sub>3</sub>		28	12	18	91
		F	9	48	-		
21	N	iP	4	39	31		
	NE	iS		45	0		62.8°
	E	iPS		48	31		6980
	N	i		48	41		
	E	i		52	46		
	N	i		56	0		
	E	F	5	34	-		
23	N	iP	16	32	47		60.2°
	NE	iS		41	0		6690
	NE	i		42	55		
	E	iSSS		45	16		
	N	L		48	31		
	N	L		51	48		

No surface waves.

## SEISMOLOGICAL BULLETIN

No. 6.

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Aberdeen.

Jan. - June, 1939.

Date	Component	Phase	Time G.M.T.			Period	Ampl.		△ km.	Remarks
			h.	m.	s.		A	E		
Apr. 23 (Cont.)	E	M	16	52	42	18	4			
	N	M <sub>1</sub>		52	57	15	7			
	N	M <sub>2</sub>		55	0	20	11			
		F	17	38	-					
		E	iP	0	37	52			22.5°	
		NE	iS		41	53			2500	
		N	L		43	30				
			F	1	5	-				
		NE	i	3	14	45				
		NE	i		16	55				
		NE	i		17	15				
		NE	i		19	40				
		N	i		21	5				
		N	i		27	20				
		N	i		33	20				
	E	i		34	32					
	NE	L		48	26					
	E	L		57	6					
	E	M <sub>1</sub>	4	2	50	27	190			
	N	M <sub>1</sub>		3	6	24	320			
	E	M <sub>2</sub>		17	27	18	67			
	N	M <sub>2</sub>		21	20	22	280			
		F	8	28	-					
May 1	N	eP	6	10	35					
	NE	i		12	14			82.2°		
	NE	i		20	28			9130		
	N	iS		20	50					
	E	i		20	52					
	NE	i		22	6					
	N	i		22	56					
	N	i		25	8					

No. 9.

## SEISMOLOGICAL BULLETIN

 King's College Observatory,  
Aberdeen.

Jan. - June,

1939.

Date	Component	Phase	Time G.M.T.			Period	Ampl.	△ km.	Remarks
			h.	m.	s.		A E		
May 16	E	e	7	43	30		11		
	E	M	8	8	27	25	10		
	N	M		8	40	20	11		
17		F						End lost in changing record.	
	N	e	18	44	23				
	N	i		47	35				
	NE	i		47	45				
	NE	i		48	25				
	NE	iS		54	27			E e	
	N	iSS	19	1	40				
	E	L		13	-				
	N	L		18	40				
	E	M		23	37	22	10		
21	N	M		23	47	19	15		
		F	21	14	-				
	NE	e	14	21	30				
22	E	e		31	30				
		F		48	-			Very slight.	
	NE	e	2	33	24				
26	NE	M		48	22	20	3		
		F	3	3	-				
	E	e	10	8	35				
26	N	M		17	18	15	3		
	E	M		18	30	15	3		
		F		35	-				
26	NE	e	18	20	32				
	E	e		27	4				
	NE	eL		49	20				
	E	M		58	27	25	5		
	N	M		59	24	26	7		
	F	19	23	-					

No. 10.

SEISMOLOGICAL BULLETIN

Jan. - June, 1939.

 King's College Observatory,  
Aberdeen.

Date	Component	Phase	Time G.M.T.			Period	Ampl.		△ km.	Remarks
			h.	m.	s.		A	E		
May 27	N	i	3	57	13					
	N	i		57	29					
	N	i		57	48					
	NE	i	4	6	32					
	N	i		7	0					
	E	i		7	4					
	E	e		11	25					
	NE	i		11	22					
	N	eL		21	30					
	E	M		30	15	18	2			
	N	M		30	27	18	3			
	F		49	-						
30	E	e	10	34	25					
	E	M		39	38	20	6			
		F		53	-					
31	NE	i	0	33	40				E e	
	N	i		34	10					
	NE	M		40	20	15	2			
		F		51	-					
June 2	E	e	3	51	12					
	NE	i		51	46					
	NE	i		57	54					
	NE	i		58	46					
	NE	i	4	6	33					
	NE	i		11	17					
	N	e		16	17					
	N	eL		23	17					
	N	M		28	37	27	15			
	E	M <sub>1</sub>		28	39	31	20			
	E	M <sub>2</sub>		32	12	25	15			
		F		6	2	-				





Date	Component	Phase	Time G.M.T.			Period	km
			h.	m.	s.		
June 4	E	e	12	24	30		
	E	eL	13	20	10		
		F		55	-		
4	N	eL	16	25	20		
	E	eL		29	10		
		F		38	-		
5	E	e	23	13	14		
	NE	i		17	13		
	E	i		21	6		
		F		45	-		
7	NE	e	2	5	30		
		F		29	-		
8	E	e	2	21	20		
	N	e		22	40		
		F		45	-		
8	NE	e	16	30	-		
		F	17	41	-		
8	N	i	21	6	14		
	E	i			25		
	N	i		9	2		
	E	i			14		
	N	i			47		
	N	i		10	16		
	N	i		12	17		
	NE	i		19	7		
	N	i		21	6		
	N	i		26	20		
	E	i		27	0		
	N	eL		43	37		
	N	eL		51	7		

June 8  
(Cont.)



			h.	m.	s.		
	N	M	22	5	40	18	
		F	23	-	-		
9	NE	e	20	16	30		
		F		25	-		
12	E	iP	4	15	9		58.2°
	NE	iS		23	10		6465
	NE	i		25	2		
	E	eL		32	8		
	N	eL		32	26		
	E	M		33	33	25	7
	N	M		38	33	20	5
		F	5	28	-		
13	N	e	21	34	30		
		F		55	-		
18	N	eL	4	39	30		
	NE	eL		47	30		
		F	5	9	-		
18	N	e	12	50	-		
	N	eL		53	-		
		F		58	-		
19	N	e	22	26	40		
	N	eL		34	20		
	NE	eL		39	-		
		F	23	5	-		
22	N	iP	19	28	34		52.7°
	N	i		33	55		5860
	NE	iS		36	1		
	NE	iSS		39	49		
	E	i		43	33		

Very slight.

No. 13

## SEISMOLOGICAL BULLETIN

Jan. - June, 1939.

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Date	Component	Phase	Time G.M.T.			Period	Ampl.	△ km.	Remarks
			h.	m.	s.		A E		
June 22 (Cont.)	N	i	19	44	20		<i>u</i>		
	E	L		45	56				
	N	L		46	58				
	E	M		47	56	18	28		
	N	M <sub>1</sub>		50	23	17	38		
	N	M <sub>2</sub>		52	32	14	39		
		F	21	-	-				
27/23	N	e	23	22	41				No record of E-W Compt.
	N	i		29	10				
	N	i		29	35				
	N	i		30	22				
	N	i		31	58				
	N	i		37	26				
	N	L		48	-				
	N	M <sub>1</sub>		59	48	33	31		
	N	M <sub>2</sub>	0	10	28	20	20		
	F		50	-					

*A. E. H. Geddes*



King's College Observato  
Aberdeen

Lat.  $57^{\circ}10'$  N. Long.  $2^{\circ}6'$  W. Height above M.S.L. 12 m.

Lithologic Foundation: Glacial deposit over boulder clay

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

Compts.	Mass	$T_0$	Damping Ratio	Magnification	1" Tilt	Date from which constants apply
N	1 lb.	10 sec.	20 : 1	150	18.1 mm.	3rd April, 1939.
E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	20th May, 1939.

Date	Component	Phase	Time G.M.T.			Period	Ampl.		△ km	Remarks
			h.	m.	s.		A	E		
July 4	N	i	18	49	11					
	N	i		49	46					
	N	i		50	56					
	N	i		53	3					
	N	i		58	4					
	N	eL		19	5	10				Surface waves very slight.
	F			44	-					
5-6	NE	i	22	59	36					
	E	i			53					
	N	i	23	2	15					
	N	i		5	5					
	NE	i		8	46					
	N	i		12	12					
	E	i		14	20					
	N	i		15	10					
	E	i		20	50					
	E	i		24	40					
	N	i		25	43					
	E	eL		29	-					Surface waves small.
	F		00	30	-					
8	NE	eL	3	20	-					
		F		31	-					

King's College Observatory,  
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Date	Component	Phase	Time G.M.T.			Period s.	Ampl.	△ km.	Remarks
			h.	m.	s.		A E		
July 12	N	i	20	29	53			slight.	
	E	eL		55	-				
12-13		F	21	20	-				
	E	i	23	9	51				
	NE	i		12	27				
	E	i		14	51				
	E	i		23	53				
	N	i		27	51				
	N	i		34	39				
	E	i		34	48				
	E	L		53	40				
	N	L		58	24				
	N	M		0	10	50	20	7	
	E	M			11	-	20	8	
13		F	1	32	-				
	NE	e	17	54	-				
16		F	18	28	-			Very slight.	
	NE	e	12	39	5				
	NE	e		45	45			Amplitudes very small.	
	N	eL		59	-				
18		F	14	5	-				
	NE	eP	3	37	43			62.1°	
	N	i		41	58			6900	
	N	iS		46	8				
	NE	i		50	31				
	NE	i		53	43				
	NE	eL		57	30				
	N	M <sub>1</sub>	4	1	22	22	40		
	E	M		2	2	20	30		
	N	M <sub>2</sub>		2	28	19	41		
	F		5	20	-				

No. 3.

SEISMOLOGICAL BULLETIN

July-August, 1939.

King's College Observatory,  
Aberdeen.

Date	Component	Phase	Time G.M.T.			Period s.	Ampl.	△ km.	Remarks	
			h.	m.	s.		A E			
July 18	N	e	12	20	-				Very slight.	
		F		36	-					
20	N	e	0	50	-				Traces round lh. on E-compt.	
		F	1	15	-					
20	NE	i	2	41	32					
	E	i		41	40					
	E	i		41	50					
	M	i		41	52					
	N	i		48	12					
	N	i		50	42					
	N	i		55	5					
	E	i	3	6	36					
	N	eL		12	-					Surface waves very slight.
	F	4	10	-						
20	N	e	17	32	-				Traces.	
		F		50	-					
23	E	e	16	0	-				Very slight, Seismic origin doubtful.	
		N	e		2	-				
		F		52	-					
25	NE	i	3	50	41					
	NE	eL		57	-					
	F	4	13	-						
27	N	e	6	3	-				Very slight: not detectable on E-compt.	
		F		17	-					
31	NE	i	19	24	18				E, e.	
	NE	eL		27	-					
	E	M		28	13	15				3
	N	M		28	26	15				3
	F	20	7	-						

SEISMOLOGICAL BULLETIN

No. 4.

King's College Observatory,  
Aberdeen.

July-August, 1939.

Date	Component	Phase	Time G.M.T.			Period s.	Ampl.		△ km.	Remarks
			h.	m.	s.		A	E		
Aug. 2	NE	e	13	16	40					
	NE	eL		23	15					
		F		37	-					
3	NE	e	12	38	32					
	N	i		43	28					
	N	eL		47	25					
	E	L		48	20					
	N	M		51	38	15	7			
	E	M		53	12	15	5			
		F	16	-	-					
19-20	N	e	22	38	39					
	N	i		39	7					
	N	i		48	36					
	N	i		57	49					
	N	eL	23	25	30					
	N	eL		32	30					
	N	M		37	54	20	6			
		F	0	38	-					
22	N	eL	0	49	53					
		F	1	20	-					
25	N	e	4	18	47					
	N	e		26	7					
	N	eL		48	42					
	E	eL		49	30				E-W compt. very slight.	
		F	5	15	-					

Seismograph dismantled on 1st September on account of repair to buildings.

*A. E. H. Seddes*