

PP or PKP.

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SEISMOLOGICAL BULLETIN

ABE

KING'S COLLEGE OBSERVATORY, ABERDEEN

JANUARY - MARCH, 1967

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

Second  $\frac{1}{10}$  gw

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

T = 0 E = -

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. "	$\Delta^\circ$ km.	Direction of Motion	Remarks Time of origin
JANUARY									
1	5	E	P	00.24.39			57°51'		T <sub>o</sub> = 00h 14m 40.4s 48.1°N 102.8°E
		E	PP	26 48			6427 Km		
		E	PPP	28 05					
		E	S	32 32					
		E	SS	36 22					
		E	G	36 35					
		E	R	39 00					
		E	M	52 25	12	46.7			
		E	F	03 00 00		PP			
2	17	E	P	12 11 40			79°53'		T <sub>o</sub> = 11h 59m 31.5s 38.3°N 142.1°E
		E	S	21 39			8875 Km		
		E	SS	26 56					
		E	L	37 00					
		E	M <sub>1</sub>	49 29	20	1.2pp			
		E	M <sub>2</sub>	50 58	16	1pp			
		E	F <sup>2</sup>	13 40 00					
3	18	E	P	05 44 29			57°21'		T <sub>o</sub> = 05h 34m 32.6s
		E	S	52 23			6372 Km		
		E	i	53 54					
		E	L	56 50					
		E	M	06 09 19	16	3.3pp			
		E	F	55 00					
4	19	E	SS	13 20 39			137° 33'		T <sub>o</sub> = 12h 40m 12.6s 14.8°S 178.8°W Poor record obliterated earlier phases.
		E	L	36 54			15,282Km		
		E	M	14 10 37	18	1.3pp			
		E	F	15 05 00					
5	20	E	P	02 07 20			57°57'		T <sub>o</sub> = 01h 57m 23.1s 48°N, 102.9°E Obscured by noise
		E	L	25 24			6438Km		
		E	M	35 26	10	5pp			
		F	lost in noise						
6	24	E	i	09 47 43					
		E	i	54 00					
		E	R	10 05 57					
		E	M <sub>1</sub>	10 31	12	2.7			
		E	M <sub>2</sub>	15 46	8	2.7			
		E	F <sup>2</sup>	11 00 00					
7	28	NE	P	14 04 00			69°57'		T <sub>o</sub> = 13h 52m 58.3s
		NE	PP	06 52			7771 Km		



# 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.					
January (contd.)											
	2P	N	S	13	13				N	E	52.4°N, 169.5°W
		NE	L	21	40						
		E	M	35	31	20	2pp				
		N	M	40	33	18	4.7pp				
		NE	F	15	45	00					
FEBRUARY											
8	9	E	L	14	20	34					T <sub>o</sub> = 15h 24m 27.2s Epicentre:- 2.9°N, 75.9°W
		E	M	23	29	15	1pp				
		NE	F	35	00						
	2	NE	P	15	36	42		78°19'			
		N	PP	39	50			8701 Km			
		NE	S	46	37						
		E	L	57	02						
		N	M <sub>1</sub>	59	17	36	4.3pp				
		E	M <sub>1</sub>	16	06	52	22	3.3pp			
		N	M <sub>2</sub>	06	58	20	3.3pp				
		E	F <sup>2</sup>	18	10	00					
10	13	NE	P	23	18	41		18°50'			T <sub>o</sub> = 23h 14m 19.6s Epicentre:- 52.7°N, 34.1°W
		E	PP	19	03			2092Km			
		E	PPP	19	13						
		NE	S	22	13						
		E	L	23	05						
		E	M	25	43	12	53.3pp				
11	14	E	PP	01	51	28		80°59'			T <sub>o</sub> = 01h 36m 04.7s Epicentre:- 13.7°N, 92.5°E
		E	S	58	19			8997Km			
		E	L	02	08	01					
		E	M	33	35	15	3.3pp				
12	15	E	SKS	16	32	23		86°38'			T <sub>o</sub> = 16h 11m 11.8s Epicentre: 9°S, 71°18'W Depth: 597Km Obscured by noise
		E	S	32	40			9625Km			
		E	sS	36	25						
		E	F	17	25	00					
MARCH											
13	04	E	M	18	17	55	12	15pp	24°58'		T <sub>o</sub> = 17h 58s 06.4s 39.2°N, 24.6°E. Rest of record obliterated by failure to change paper.
									2773Km		
14	14	E	e(L?)	07	42	02					Any other phases obscured by noise
		E	M	43	02						
15	19	E	S	04	22	54		75°3'			T <sub>o</sub> = 04h 01m 36.7s 45.4°N, 151.3°E
		E	L	04	41	32		8331Km			
		E	M	53	38	20	2.2pp				
		E	F	05	45	00					
16	27	E	i	09	38	11					
		E	e	42	46						
		E	M	46	11	5	s 1.7pp				

NATURAL PHILOSOPHY DEPARTMENT, p.p. Dr. H. Mutch  
THE UNIVERSITY,  
ABERDEEN

G.S



R6D

(ARX)

# SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

APRIL - JUNE, 1967

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
APRIL									
1	1	E	e	13.16.53					
		E	e	21 48					
		E	e	26 01					
2	10	E	e	14 52 04					
3	10	E	i	15 45 17					
		E	e	47 55					
4	10	E	L	18 20 34					
		E	M <sub>1</sub>	25 00					
		E	M <sub>2</sub>	28 55					
		E	F <sup>2</sup>	39 00					
5	12	E	P	05 04 00			90°11'		T <sub>0</sub> = 04:51:40.2
		E	PP	08 00					5.3°N, 96.5°E
		E	S	15 05					
		E	PS	16 25					
		E	L	21 17					
		E	M <sub>1</sub>	43 04		9μ p-p			
		E	M <sub>2</sub>	50 11		10μ p-p			
		N	M <sub>2</sub>	53 18					
		E	F	06 40 00					
6	23	E	e	09 42 13					Possibly Algerian
		E	M	42 19					
		E	F	46 03					
7	29	E	e	00 38 10					
		E	M	43 06					
		E	F	45 58					
MAY									
8	1	E	P	07 14 09			23°7'		T <sub>0</sub> = 07:09:00.5
		E	PPP	14 46					39.7°N, 21.3°E
		E	S	18 20					
		E	L	19 23					
		E	M <sub>1</sub>	24 20		37μ pp			
		E	M <sub>2</sub>	27 21		30μ pp			
		E	F <sup>2</sup>	50 00					
9	8	E	e	15 37 16					
		E	e	47 25					
		E	F	55 20					

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No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. μ	Δ° km.	Directions of Motion	Remarks Time of Origin
				h.	m.	s.					
	MAY	(contd.)							N E		
10	27	E	S	17	43	26		71° 18'		T <sub>o</sub> = 17:22:58.7 51.5°N 176.1°E	
		E	L		54	37					
		E	M <sub>1</sub>	18	06	22	3μ <sub>PP</sub>				
		E	M <sub>2</sub>		11	41	3μ <sub>PP</sub>				
		E	F		45	00					
11	27	E	e	19	27	13		55° 6'		T <sub>o</sub> = 19:05:48.5 36.1°N 77.8°E	
		E	L		34	26					
		E	M		41	43	4μ <sub>PP</sub>				
		E	F	20	00	00					
	JUNE										
12	1	E	e	06	57	44					
		E	F		59	46					
13	1	E	e	12	12	29				Very faint	
		E	e		23	21					
		E	e		24	43					
		E	e		34	46					
		E	F		50	00					
14	1	E	e	19	46	35					
		E	F		55	00					
15	1	E	e	20	34	23					
		E	e		38	47					
		E	i		46	31					
		E	F	20	55	59					
16	12	E	i	14	49	06					
		E	e	15	02	02				Very faint	
		E	F		05	00					
17	13	E	L	00	06	36		73° 36'		T <sub>o</sub> = 23:22:45.3 47.4°N 154.3°E	
		E	M		15	37					
		E	F		40	00					
18	16	E	e	13	43	43					
		E	F		54	17					
19	17	E	i	05	27	28		117° 7'		Just perceptible T <sub>o</sub> = 05:00:11.8 58.3°S, 26.6°W	
		E	e		27	53					
		E	L		47	59					
		E	M	06	07	42					
		E	F		35	00					
20	19	E	eS	17	27	52				T <sub>o</sub> = 17:07:45.4 52.7°N 166.9°W	
		E	PS		29	10					
		E	L		39	18					
		E	M		55	43					
		E	F	18	30	00					
21	20	E	L	08	17	03					
		E	M <sub>1</sub>		23	00					
		E	M <sub>2</sub>		36	46					
22	20	E	e	14	42	48					
		E	F		49	43					

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No.	Date	Compt	Phase	Time G.M.T.			Period sec.	Ampl. " "	$\Delta^\circ$ km.	Directions of Motion		Remarks Time of Origin
				h.	m.	s.				N	E	
JUNE (contd.)												
23	21	E	L	16	35	37		4 $\mu$ PP				
		E	M		38	44						
		E	F		53	00						
24	21	E	L	18	36	32						
		E	M		40	50						
		E	F		19	10						
25	21	E	e	21	02	36						
		E	F		06	00						
26	22	E	e	13	40	01						
		E	M		48	04						
		E	F		14	00						
27	28	E	e	13	45	02						
		E	M		58	29						
		E	F		14	10						
28	28	E	e	15	42	34						
		E	e		46	15						
		E	M		50	51						
		E	F		16	03						
29	28	E	e	16	42	54						
		E	e		56	44						
		E	F		17	11						

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