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.

January - March, 1957

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.	8/11/56
E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	8/11/56

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks Time of origin
Jan.							
√ 2	N	i	00 49 34				U.S.C.G.S.: 53°N, 168½°W
	N	iS	59 44				E 59m 54s
	N	iPS	01 00 21				
	E	i	00 47				
	N	iSSS	06 59				
	E	i	10 04				
	NE	e	14 00				
	N	eL	20 39				
	E	L	22 51				
	N	M	23 59	20	11		
	E	M	26 29	18	11		
		F	Obscured	by following	shock		
√ 2	NE	iP	02 28 39			73.4°	U.S.C.G.S.: 52½°N, 168°W
	N	iPP	31 19			8155 Km	
	N	i	34 28				
	E	iS	38 07				
	NE	i	38 24				
	N	iSS	42 39				
	N	i	46 36				
	E	e	53 15				
	N	M_1	03 02 03	17	20		
	E	M_1	05 06	15	18		
	N	M_2	06 27	19	25		
		F	Obscured	by following	shock		
√ 2	N	iP	03 24 04			74.0°	U.S.C.G.S.: 53°N, 168°W
	E	iPPP	28 14			8220 Km	
	E	iS	33 36				
	E	e	37 -				
	N	e	47 45				
	E	M	59 39	19	25		
	N	M	59 54	17	18		
		F	Obscured	by following	shock		
√ 2	N	i	04 14 14				U.S.C.G.S.: 53°N, 168°W
	NE	i	16 49				
	N	i	22 54				
	N	M	33 00	18	29		
	E	M	35 32	17	28		
		F	Obscured	by following	chock		
√ 2	N	M	04 52 14	15	15		U.S.C.G.S.: 52½°N, 169°W
	E	M	05 02 39	15	10		
		F	06 50 -				

No. 2

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h.	m.	s.	Period sec.	Ampl. μ	Δ° km.	Remarks: Time of origin.
Jan.									
✓2	E	iS	11	10	40				U.S.C.G.S.: 52½°N, 168°W
	N	i		10	54				
	N	e		24	15				
	E	e		30	50				
	N	M		37	41	17	3		
		F		48	-				
3	E	i	12	55	05			71.4°	U.S.C.G.S.: 44°N, 130°E
	N	iP		58	48			7935 Km	
	E	i		58	55				
	NE	i	13	00	56				T_o = 12h 48m 27s
	N	iPP		01	42				
	NE	i		03	33				
	N	iS		07	25				Deep focus
	NE	i		07	28				
	NE	iPS		07	58				
	NE	i		11	05				
	N	iSSS		15	30				No maximum phase
		F		56	-				
✓9	N	i	08	34	06				U.S.C.G.S.: 53°N, 167½°W
	NE	i		37	05				
	N	i		40	00				
	N	e		43	50				
	E	LM		46	-52				
	N	M		47	46	17	4		
		F		50	-				
Feb.									
3	E	e	18	05	-				U.S.C.G.S.: 53½°N, 159°E
	N	i		06	48				
	E	i		09	48				
	NE	e		25	50				
		F		52	-				
✓6	E	L	21	03	40				U.S.C.G.S: 50°N, 106°E
	N	e		06	12				
	N	M		12	23	15	5		
	E	M		12	30	14	1		
		F		29	-				
✓10	E	i	22	52	09			100.8°	U.S.C.G.S.: 10°N, 126°E
	N	iSKS		56	42			11200 Km	
	E	eS		57	40				
	E	iPS		58	50				T_o = 22h 32.3m
	N	ePPS		59	29				
	E	iSS	23	04	44				
	E	i		07	23				
	N	M_1		29	44	20	8		
	E	M_1		30	07	22	19		
	N	M_2		37	04	17	12		
	E	M_2		38	33	17	18		
		F	Lost in succeeding shock						
✓10	N	iP	23	04	52			100.8°	U.S.C.G.S.: 10½°N, 126½°E
	E	ePP		08	39			11200 Km	N 08h 34s
	N	iS		16	19				Mindinao aftershock
	E	iPS		17	46				N 17h 51s
	NE	L		42	-				
	N	M_1		48	21	20	19		T_o = 22h 51.0m
	E	M_1		48	46	21	30		
	N	M_2		55	24	18	22		
	E	M_2		55	34	18	22		
		F	24	30	-				

No. 3

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks Time of origin
Feb.							
11	E	iSKS	01 39 24				U.S.C.G.S.: 10°N, 126°E
	NE	i	40 29				Mindinao
	E	i	47 24				Aftershock
	N	L	02 02 -				
	E	L	05 50				
	N	M_1	10 44	22	10		
	E	M_1	13 01	26	18		
	E	M_2	19 44	18	18		
	N	M_2	20 33	20	19		
		F	02 54 -				
11	NE	i	15 45 08				B.C.I.S.: 52¾°N, 1¼°W
	E	e	45 18				
	N	e	45 19				Displacements all very small
	E	e	45 33				
	NE	e	46 29				
19	N	iP	07 49 35			26.0°	Ee.: U.S.C.G.S.: 36½°N, 22°
	E	iS	54 08			2890 Km	
	N	i	54 18				
	N	iSS	55 15				T_o = 07h 44.0m
	NE	L	58 25				
	N	M	59 28	20	19		
	E	M	59 38	20	27		
		F	08 25 -				
20	NE	iS	04 50 03			22°	U.S.C.G.S.: 36½°N, 9°E
	NE	i	50 23			2445 Km	
	NE	iSS	50 43				T_o = 04h 41m
	NE	L	52 48				
	E	M	54 30	15	6		
	N	M	54 38	15	3		
		F	05 03 -				
23	E	iP	20 38 58			86.5°	U.S.C.G.S.: 24°N, 122°E
	N	i	40 08			9610 Km	
	E	iPP	42 23				
	N	i	42 47				T_o = 20h 26m 20s
	E	ePPP	44 18				
	N	iSKS	49 23				
	NE	iS	49 30				
	N	iSKKS	49 50				
	E	iPS	50 38				
	N	i	51 38				
	N	i	54 48				
	E	iSS	55 42				
	N	iSSS	58 48				
	NE	L	21 07 -				
	E	M_1	13 53	22	133		
	N	M_1	14 23	20	82		
	N	M_2	21 53	15	69		
	E	M_2	22 38	16	89		
		F	22 04 -				
Mar.							
2	N	iPII	00 38 38			67°	U.S.C.G.S.: 18½°N, 78°W
	N	iPP	41 23			7445 Km	
	NE	iS I	47 23				
	NE	iS II	47 38				Two shocks
	E	iSS I	51 53				
	N	e	54 58				
	E	L	57 30				
	N	M	01 05 58	20	8		
	E	M	06 28	17	4		
		F	46 -				

No. 4

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks: Time of origin.
Mar.							
√3	E	e	04 03 10				U.S.C.G.S.: 8½°N, 103°W
	E	M	06 48	22	3		No effect on N.S
		F	12 -				
√5	NE	e	12 35 38				U.S.C.G.S.: 33°N, 34½°W
	E	iSS	38 18				
	NE	iSSS	40 44				
	E	L	41 30				
	E	M	44 13	15	6		
	N	M	44 21	15	3		
		F	13 12 -				
√8	NE	iP	12 19 30			23.9°	U.S.C.G.S: 39½°N, 23°E
	NE	iPP	20 03			2655Km	
	NE	iS	23 44				
	N	iSS	24 48				T_o = 12h 14m 16s
	E	i	25 04				
	NE	i	26 30				
	N	M	29 16	15	65		
	E	M	29 26	15	79		
	NE	M	36 20	15	160E) 116N)		
		F	14 00 -				
8	NE	e	20 54 -				
		F	59 -				
√8	N	i	23 41 08				U.S.C.G.S.: 39½°N, 23°E
	E	iS	44 43				Eastern Greece Aftershock
	N	iSS	45 37				
	NE	e	48 50				
	N	M	51 49	13	13		
	E	M	52 24	10	9		
		F	24 13 -				
√9	E	iP	14 33 53			72°	U.S.C.G.S.: 51°N, 175°W
	NE	i	34 09			8000 Km	
	E	iPP	36 34				
	N	iPPP	38 04				
	NE	iS	43 28				
	E	M_1	54 00	10	76		
	N	M_1	15 17 09	15	253		
	E	M_2	30 24	15	218		
		F	Series of disturbances continued until 20h.				
√9	N	iP	20 50 24			70.2°	U.S.C.G.S.: 52½°N, 169½°W
	N	iPP	53 01			7800Km	
	E	iPPP	54 30				
	E	iS	59 40				
	N	i	21 00 34				T_o = 20h 39m 14s
	E	iSS	04 24				
	E	i	09 31				
	N	L	13 09				
	N	M_1	20 16	17	44		
	E	M_1	22 04	19	46		
	N	M_2	26 35	17	54		
		F	22 40 -				
9	E	e	23 08 30				U.S.C.G.S.: 53°N, 168°W
	E	e	20 30				
	N	eLM	31 -				
			-35-				
		F	54 -				

No. 5

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks: Time of origin.
Mar.							
10	E	i	03 26 59				U.S.C.G.S.: 52°N, 176°W
	NE	i	27 44				
	N	e	40 50				
	E	L	41 40				
	E	M	47 54	20	19		
	N	M	50 14	18	22		
		F	04 49 -				
10	E	eL	12 05 -				U.S.C.G.S.: 52°N, 171°W
	N	eLM	06 -				
			-15-				
		F	20 -				
10	E	eLM	13 50 -)				U.S.C.G.S.: 51½°N, 180°
			14 15 -)				
	N	eLM	13 57 -				
			14 14 -				
10	NE	e	15 47 20				U.S.C.G.S.: 52°N, 173°W
	E	e	56 40				
	E	e	16 04 10				
	N	L	10 00				
	E	M	13 33	20	8		
	N	M	17 18	20	14		
		F	17 05 -				
11	N	i	03 24 28			72° 8000Km	U.S.C.G.S: 51°N, 177°W
	N	iS	33 23				E 34m 19s
	N	iPS	34 08				E 38m 38s
	N	iSS	38 18				
	E	i	41 28				
	N	L	55 -				
	E	L	56 -				
	E	M	04 04 07	19	46		
	N	M	06 32	20	54		
		F	05 18 -				
11	N	i	10 10 01			70° 7780Km	U.S.C.G.S.: 53°N, 164½°W
	E	i	11 48				
	N	i	18 38				
	E	iS	19 13				
	N	iSS	23 40				
	N	iSSS	26 28				
	NE	L	33 -				
	N	M	39 43	18	50		
	E	M	40 50	21	51		
		F	12 05 -				
11	E	e	12 23 -				
	N	i	24 30				
	E	M	37 36	18	2		
	N	LM	37 -				
			-42-				
		F	54 -				
11	N	iP	15 06 43			71.7° 7965Km	U.S.C.G.S.: 51½°N, 178½°W
	N	iPP	09 28				N 15m 48s
	E	iS	16 02				
	N	i	16 20				
	N	iSS	20 38				
	E	i	23 59				
	N	L	30 40				
	E	M	35 11	20	27		
	N	M	40 40	17	26		
		F	17 48 -				

No. 6

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks Time of origin
?.12	√ E	eS	07 49 28				U.S.C.G.S.: 51½°, 173½°W.
	N	iPS	49 53				
	E	M	08 10 53	20	6		
	N	M	13 48	18	20		
		F	09 35 -				
√12	N	eP	11 56 13			72.0° 8000Km	U.S.C.G.S.: 51°N, 177°W.
	N	iPP	59 03				
	N	iS	12 05 32				
	N	i	05 48				E 05m 53s.
	N	iSS	10 28				T_o = 11h 44m 53s.
	E	i	18 53				
	N	M	29 37	17	38		
	E	M	29 44	18	64		
		F	14 46 -				
√13	E	e	03 26 40				U.S.C.G.S.: 52°N, 171½°W.
	N	eLM	30 -				
			-40-				
	E	M	38 33	15	1		
		F	47 -				
√13	N	i	15 58 30				U.S.C.G.S.: 51½°N, 179°W.
	NE	iS	16 02 48				
	NE	i	03 32				
	NE	i	06 40				
	E	M	22 28	25	9		
	N	M	27 29	15	13		
		F	17 42 -				
√13	E	e	20 35 -				U.S.C.G.S.: 52½°N, 168°W.
	N	e	41 -				
	N	M	44 28	17	2		
	E	M	46 23	15	3		
		F	21 00 -				
√14	N	iP	14 59 08			72° 8000Km	U.S.C.G.S.: 51½°, 177°W.
	NE	i	59 24				
	N	iPP	15 01 39				
	N	iS	08 36				E 08m 42s.
	N	iPS	09 00				
	E	i	17 13				
	E	M	28 22	20	82		
	N	M	42 15	19	90		
		F	18 08 -				
√ 15	N	iS	03 12 30				U.S.C.G.S.: 53°N, 167°W.
	E	i	15 30				
	N	i	20 28				
	N	M	36 13	15	11		
	E	M	38 30	16	7		
		F	04 52				
√16	N	iP	02 45 48			71° 7890Km	U.S.C.G.S.: 52°N, 179°W.
	N	iPPP	50 03				E 50m 11s.
	NE	i	54 54				
	NE	iS	55 03				T_o = 02h 34m 32s.
	N	iPS	55 38				
	NE	iSSS	03 02 28				
	N	L	14 33				
	N	M	21 57	17	38		
	E	M	26 03	19	49		
		F	05 26 -				

No. 7

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. mm	Δ° km.	Remarks Time of origin
Mar. 17	N	iP	22 55 53			67.4°	U.S.C.G.S: 54°N, 166°W
√	NE	iS	23 04 48			7490Km	
	N	iPS	05 23				T_o = 22h 45m 00s.
	N	iSSS	11 54				
	N	M	27 38	21	6		
	E	M	31 53	20	22		
		F	55 -				
18	E	i	23 34 33				
	N	i	36 35				
		F	44 -				
√19	N	e	13 02 36			70°	U.S.C.G.S: 51½°, 175°W.
	N	iPPP	06 48			7780Km	
	N	iS	11 45				E 11m 48s.
	E	iPS	12 18				
	N	iSS	16 29				T_o = 12h 51m 28s.
	N	iSSS	19 17				
	N	L	26 38				
	E	L	28 03				
	E	M	33 26	20	16		
	N	M	43 02	16	13		
		F	15 07 -				
√22	NE	Pi,e	14 32 06			68.2°	U.S.C.G.S: 54°N, 166°W.
	NE	iS	41 06			7580Km	
	E	iPS	41 36				T_o = 14h 21m 08s.
	N	eSS	45 36				
	E	e	48 45				
	E	L	51 05				
	N	L	53 25				
	E	M	15 01 51	21	45		
	N	M	03 45	19	39		
		F	17 06 -				
√23	E	e	05 47 40				No effect on N-S component.
	E	e	54 35				
	E	e	06 07 45				
	E	M	16 36	18	4		
		F	42 -				
√24	N	e	09 00 -				U.S.C.G.S: 51°N, 130°W.
	E	i	00 18				No definite maximum on N-S.
	E	M	01 21	18	13		
		F	10 -				
25	E	e	22 08 35				
	N	e	11 25				
		F	16 -				
							U.S.C.G.S.: 51°N, 171½°W
√28	E	e	20 51 25				
	N	e	52 30				
	N	M	53 37	15	1		
	E	M	57 24	15	1		
		F	21 09 -				
√ 29	N	iP	05 21 32			69.5°	U.S.C.G.S: 53½°N, 167°W.
	E	e	21 37			7720Km	
	NE	iS	30 39				T_o = 05h 10m 26s.
	E	i	30 59				
	NE	eSS	35 22				
	E	L	40 30				
	N	L	43 30				
	E	M	45 15	28	37		

No. 8

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks Time of origin
Mar.29	N	M	05 46 37	27	44		
		F	08 08 -				
√29	N	i	23 01 52				U.S.C.G.S: 53°N, 169°W.
	N	i	10 57				
	N	e	11 23				
	E	e	20 30				
	E	M	36 52	17	2		
	N	M	38 43	15	1		
		F	57 -				

Natural Philosophy Department,
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A. E. M. Geddes

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

April - June, 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	1 lb.	10 sec.	20 : 1	150	18.1mm. E-W	8/11/56
E	1 lb.	10 sec.	20 : 1	150	19.0mm. N-S	

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks: Time of origin.
April							
✓ 2	E	e	20 53 25				U.S.C.G.S.: 51½°N, 173°W
	E	M	21 06 22	16	2		
		F	24 -				
2	E	e	22 13 20				U.S.C.G.S.: 51°N, 173°W
		F	29 -				
✓ 5	E	e	03 18 25				U.S.C.G.S.: 52°N, 172½°W
	E	i	21 22				
	N	e	24 20				
	E	i	25 17				
	N	i	30 15				No definite maximum on N-S
	E	M	33 23	20	5		
		F	04 12 -				
✓ 8	E	i	20 40 00				U.S.C.G.S.: 8½°N, 83°W
	E	e	45 18				
	E	M	21 02 38	19	2		
		F	16 -				
✓ 9	NE	i	00 46 33				U.S.C.G.S.: 30½°N, 138½°E
	NE	i	49 33				
	NE	i	52 25				
	E	M	01 14 49	17	2		
		F	34 -				
9	E	e	21 05 25				U.S.C.G.S.: 52½°N, 169°W
	N	e	07 45				
	E	M	10 26	15	1		
	N	M	11 38	17	1		
		F	28 -				
10	E	iP	05 24 19			80.4° 8935Km	U.S.C.G.S.: 15½°N, 98°W
	N	i	25 24				
	NE	e, iPP	27 24				
	NE	i, eS	34 25				T_o = 05h 12m 09s
	N	i	38 44				
	E	eSS	39 44				
	E	M	54 39				
	N	M	55 49				
		F	06 29 -				

No. 2

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks: Time of origin.
April							
10	NE	iP	11 40 41			65.3°	U.S.C.G.S.: 56°N, 154°W
	N	iPP	43 06			7255 Km	
	E	ePPP	44 41				
	E	iS	49 24				N 49m 30s
	NE	i	50 31				
	E	iSS	53 42				T_o = 11h 30m 00s
	E	iSSS	56 09				
	N	i	56 59				
	E	L	12 01 09				
	E	M	09 38	18	51		
	N	M	11 40	18	58		
		F	16 03 -				
13	NE	e	04 03 -				U.S.C.G.S.: 48½°N, 128°W
	NE	e	11 25				
	N	M	18 42	22	3		
	E	M	18 51	20	3		
		F	32 -				
14	E	e	07 26 30			63°	U.S.C.G.S.: 31°N, 84½°E
	NE	i, e	30 51				
	NE	i	32 19			7000Km	
	E	eSSS	37 44				
	NE	L	44 40				
	E	M	49 54	18	27		
	N	M	50 35	17	14		
		F	08 44 -				
14	N	e	19 37 44			137°	U.S.C.G.S.: 15½°S, 173°W
	N	iSKP	40 51			15220Km	
	N	eSKS	44 15				
	N	i	47 02				
	N	iPPS	52 19				
	N	iSS	58 09				
	N	L	20 22 30				
	N	M	34 48	20	55		
		F	22 30 -				
15	E	e	22 09 -				U.S.C.G.S.: 50½°N, 167°E
	N	M	16 39	22	2		
	E	M	19 31	15	1		
		F	42 -				
16	E	e	04 17 09			104.5°	U.S.C.G.S.: 4½°S, 107½°E
	NE	iPP	21 39			11610Km	
	NE	iSKS	26 51				
	NE	i	29 50				
	N	i	32 00				Deep focus
	E	i	33 22				
	E	M	05 01 29	22	8		
	N	M	02 49	20	4		
		F	06 07 -				
19	NE	iP	22 30 45			70.0°	U.S.C.G.S.: 52°, 166½°W
	NE	iS	39 55			7780Km	
	E	iPS	40 30				
	N	i	40 47				T_o = 22h 19m 35s
	NE	e, iSS	44 35				
	E	i	47 35				
	E	L	56 30				
	N	M	23 04 59	17	20		
	E	M	05 39	19	25		
		F	24 09 -				

No. 3

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks: Time of origin.
April							
√ 20	E	e	13 34 30				U.S.C.G.S.: 6°S, 147½°E
	N	e	37 50				
	E	L	40 -				
	N	M	47 53	17	3		
	E	M	48 16	18	4		
		F	14 01 -				
√ 21	E	e	21 24 30			73°	U.S.C.G.S.: 7°N, 72°W
	E	i	29 22			8110Km	
	NE	iS	33 32				
	N	i	34 53				
	N	iSS	38 28				
	N	e	43 40				
	N	eL	50 50				
	N	M	58 36	20	14		
	E	M	59 45	16	20		
		F	23 09 -				
23	E	e	22 52 46				U.S.C.G.S.: 27°S, 68°W
	E	M	55 00	19	2		Very slight on N-S Compt.
		F	23 15 -				
√ 24	NE	iP	19 16 07			29.0°	U.S.C.G.S.: 36°N, 28½°E
	NE	iPPP	17 09			3220Km	Turkish Shock
	E	iS	21 02				
	NE	i	22 02				T_o = 19h 10m 05s
	N	L	23 52				
	E	M	27 41	21	118		
	N	M	28 54	18	78		
		F	21 16 -				
√ 25	NE	iP	02 31 36			29.3°	U.S.C.G.S.: 36½°N, 29°E
	NE	iPPP	32 42			3255Km	Turkish major shock
	E	i	35 37				
	NE	i	36 25				T_o = 02h 25m 32s
	NE	iS	36 37				
	N	i	37 25				
	E	L	40 47				
	E	M	43 54	17	182		
	N	M	44 02	15	113		
		F	04 33 -				
√ 26	NE	e	06 45 32				U.S.C.G.S.: 36½°N, 29°E
	E	i	46 22				Turkish after shock
	NE	L	49 30				
	NE	M	51 54	15	13E) 10N)		
		F	07 11 -				
√ 28	E	e	01 48 -				U.S.C.G.S.: 7°N, 127°E
	NE	e,i	51 20				
	E	L	02 12 40				
	N	L	16 50				
	E	M_1	18 42	25	4		
	N	M_1	19 32	30	6		
	E	M_2	29 42	20	5		
	N	M_2	29 57	20	3		
		F	55 -				
28	N	iS	15 09 02				U.S.C.G.S.: 52½°N, 168½°W
	N	e	28 30				
	NE	LM	35 -				
			47				
		F	16 00 -				

No. 4

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks Time of origin
April							
√ 29	E	e	21 52 -				U.S.C.G.S.: 9°S, 107°E
	N	e	53 -				
	NE	M	22 02 38	24	4		
		F	22 -				
May							
√ 2	N	i	04 01 53				U.S.C.G.S.: 72°N, 67½°W
	E	ePP	02 33				
	NE	iS	06 38				
	E	M	11 29	20	11		
	N	M	11 38	22	7		
		F	50 -				
√ 2	NE	e	11 16 50				U.S.C.G.S.: 56½°S, 123°W
	E	e	37 30				
	E	L	46 -				
	E	M	54 35	19	5		
		F	Lost in following shock				
√ 2	N	e	12 09 25				U.S.C.G.S.: 52½°N, 169°W
	E	i	14 14				
	N	M	22 58	16	4		
	E	M	25 45	18	4		
		F	13 24 -				
2	E	e	22 04 50				U.S.C.G.S: 7½°S, 120°E
		F	22 -				Very slight
√ 4	E	eL	11 08 35				U.S.C.G.S.: 3½°S, 137°E
	E	e	15 35				
	E	M	19 52	18	2		
		F	25 -				
12	N	i	05 17 53				
		F	06 00 -				
13	N	e	05 01 -				
	N	L	17 15				
	N	M	18 27	16	4		
	N	M	26 06	22	7		
		F	58 -				
18	E	e	06 08 55				U.S.C.G.S.: 51°N, 171°W
	N	e	13 45				
		F	25 -				
19	E	e	21 40 45				U.S.C.G.S.: 12°N, 87°W
	E	M	50 50	15	2		
		F	57 -				
√ 20	N	e	02 31 55				U.S.C.G.S.: 51°N, 180°
	E	e	33 35				
	E	M	36 40	15	2		
	N	M	46 00	15	2		
		F	03 12 -				
20	E	e	20 01 54				U.S.C.G.S.: 38½°N, 14°E
	E	i	08 44				N: 08m 39s
	E	i	11 54				
	N	i	12 57				
		F	20 -				

No. 6

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks Time of origin
May							
28	NE	i	06 12 56				U.S.C.G.S.: 25½°N, 95°E
	E	e	31 35				
	E	M	37 56	16	2		
		F	47 -				
29	N	LM	10 32 -				U.S.C.G.S.:
			-44-				Turkish aftershock
	E	M	37 03	16	2		
		F	47 -				
29	E	eP	18 44 26				U.S.C.G.S.: Southern Greece
	N	e	45 20				
	NE	e,iS	49 06				
	E	iSS	49 51				
		F	19 05 -				
30	E	e	01 36 38				U.S.C.G.S.: 20°S, 175°W
	N	e	40 48				
	N	M	46 43	20	2		
	E	M	48 38	18	2		
		F	02 21 -				
31	NE	i	02 38 53				U.S.C.G.S.: 27½°S, 63°W
	NE	i	42 48				
	NE	i	44 58				
		F	52 -				
31	NE	iS	22 19 38				U.S.C.G.S: 3½°N, 77°W
	N	e	24 35				
	N	i	37 54				
		F	41 -				
June							
1	NE	e	05 37 30				U.S.C.G.S.: 40½°N, 31°E
	N	M	44 51	20	3		Turkish aftershock
	E	M	48 43	15	2		
		F	59 -				
1	E	e	21 18 40				U.S.C.G.S.:
	N	e	23 50				
	E	M	27 50	15	1		Turkish aftershock
	N	LM	27 -				
			-32-				
		F	41 -				
1	E	e	23 12 45				
	N	e	13 40				
		F	29 -				
2	NE	e	01 27 45				U.S.C.G.S.:
	E	M	31 35	15	1		Turkish aftershock
	N	M	33 38	15	1		
		F	41 -				
5	E	iP	07 20 42			20.4° 2265Km	U.S.C.G.S.: 52½°N, 35°W
	NE	iS	24 23				
	NE	L	25 30				T_o = 07h 16m 08s
	E	M	27 45	13	10		
	N	M	28 12	11	8		
		F	08 10 -				

No. 7

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks Time of origin
June							
√6	E	e	20 45 -				U.S.C.G.S.: 3°N, 126½°E
	E	M	53 55	20	3		
		F	21 04 -				
√10	E	e	01 19 35				
	E	i	24 31				
	NE	i	25 14				
	E	e	29 05				
	NE	e,i	39 55				
	E	M	02 02 10	23	4		
	N	LM	01 -				
			-15-				
		F	20 -				
11	NE	e	06 48 -				
	NE	i,e	57 35				
	NE	e	07 08 55				
	N	i	16 50				
	NE	e	30 00				No maximum: deep focus
		F	08 30 -				
√11	NE	i,e	15 02 05				
	NE	iPKP	09 45				
	N	iSKS	16 42				
	N	i	22 35				
	NE	e	33 10				
	E	M	16 24 13	24	6		
	N	M	42 47	20	4		
		F	17 11 -				
√11	NE	i,ePP	19 06 02			91.2°	U.S.C.G.S.: 18°N, 120½°E
	E	i	09 42			10135 Km	
	NE	i	13 01				
	NE	iS	13 25				T_o = 18h 49m 22s.
	N	iSS	19 35				
	E	iSSS	23 05				
	N	i	23 35				
	N	M_1	38 43	24	28		
	E	M_1	38 45	25	52		
	N	M_2	46 35	20	23		
	E	M_2	46 37	20	33		
		F	20 51 -				
12	NE	e	00 14 40				U.S.C.G.S.: 52°N, 176°W
	NE	e	19 45				
	N	LM	40 -				
			-50-				
	E	LM	43 -				
			-59-				
		F	01 25 -				
√13	NE	i,eP	10 52 10			71.9°	U.S.C.G.S.: 51½°N, 175°W
	N	iPP	56 30			7990Km	
	E	iS	11 01 35				T_o = 10h 40m 45s
	N	i	01 44				
	N	iSS	06 15				
	E	M_1	11 50	19	27		
	N	M_1	28 50	17	26		
	E	M_2	29 56	18	24		
	N	M_2	32 40	16	27		
		F	13 58 -				

No. 8

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks Time of origin
June 14	NE	e	06 44 55				U.S.C.G.S.: 52°N, 175½°W
	NE	e	53 -				
	N	LM	07 03 -				
			-14-				
	E	LM	04 -				
			-17-				
		F	40 -				
√ 15	E	ePP	01 02 40			103.3°	U.S.C.G.S.: 34°S, 56°E
	N	eSKS	08 40			11,480Km	
	E	eL	37 -				
	N	eL	40 -				
	E	M	49 50	17	4		
	N	M	52 45	17	2		
		F	02 15 -				
√ 15	N	iP	18 29 40			71°	U.S.C.G.S.: 52°, 171°W
	NE	e	36 50			7890Km	
	N	iPS	39 37				
	E	LM	55 -				
			19 13 -				
	N	M	06 48	17	2		
		F	38 -				
√ 18	E	eP	02 24 37			82.2°	U.S.C.G.S.: 14½°N, 96°E
	E	ePP	27 37			9135Km	
	NE	iS	34 52				
	E	e	39 49				T_o = 02h 12m 14s
	N	i	45 14				
	N	M	03 00 52	20	3		
	E	M	07 54	18	3		
		F	38 -				
√ 18	E	iP	15 00 50			82.2°	U.S.C.G.S.: 14°N, 96°E
	E	iPP	03 57			9135Km	
	E	iS	11 07				N 11m 02s
	NE	M	36 57	20	11		T_o = 14h 48m 31s
	E	M	44 00	18	11		
		F	16 48 -				
√ 18	N	ePKP	18 16 02				U.S.C.G.S.: 25°S, 170°E
	E	e	16 57				
	E	eSKS	22 37				
	E	i	50 07				
	NE	L	19 11 47				
	N	M	22 58	20	2		
	E	M	24 58	20	3		
		F	20 50 -				
19	E	e	02 46 50				U.S.C.G.S.: 24°S, 175½°W
	E	M	52 00	20	2		
		F	03 12 -				
√ 19	N	e	08 23 -				U.S.C.G.S.: 16½°S, 176½°E
	N	iSKP	24 37				
	E	ePPP	27 10				
	N	i	29 55				
	NE	L	09 12 -				
	E	M	25 46	20	3		
	N	M	29 47	20	3		
		F	10 25 -				

No. 9

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks Time of origin
June							
√22	NE	iP	06 31 03			78.3°	
	N	i	34 38			8700Km	
	E	i	36 03				
	NE	iS	40 58				T_o = 06h 19m 07s
	NE	i	41 13				
	E	L	56 00				
	E	M	07 01 59	22	8		
	N	M	02 01	20	3		
		F	08 00 -				
√23	NE	i, eP	00 10 17			76.6°	
	NE	i, ePP	13 10			8620Km	
	NE	iS	20 08				
	E	iSS	25 48				T_o = 23h 58m 20s
	N	i	26 54				
	NE	i	38 08				
	E	L	43 43				
	N	L	44 53				
	N	M_1	50 46	26	84		
	E	M_1	55 05	23	111		
	N	M_2	01 00 38	22	59		
	E	M_2	01 12	22	131		
		F	04 19 -				
√27	NE	iP	00 19 16			57.4°	U.S.C.G.S.: 56½°N, 116°E
	NE	i	19 22				
	NE	iPP	21 22			6380Km	
	NE	i	22 50				
	NE	iS	27 12				T_o = 00h 09m 29s
	NE	iSS	31 01				
	N	i	33 29				
	E	i	33 57				
	N	M	46 51	12	184		
	E	M	51 02	11	221		
		F	04 19 -				
28	E	e	21 32 -				
	E	i	35 30				
	N	i	37 12				
		F	39 -				
29	E	e	23 57 -				
	E	M	58 42	14	3		U.S.C.G.S.: 56°N, 116°E
	N	e	59 40				
		F	24 04 -				

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SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

July, 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	1 lb.	10 sec.	20 : 1	150	18.1 mmE-W 19.0mm N-S	8/11/56
E	1 lb.	10 sec.	20 : 1	150		

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dirn. of Motion N E	Remarks Time of origin
July							N E	
1	E	eP	19 41 52			72.5	+	U.S.C.G.S.:25°N,94°E
	E	ePPP	45 59			8055 Km	+	
	NE	iS	51 07				- +	
	E	iPS	51 38				+	T_o = 19h 30m 20s
	N	i	51 46				-	
	N	eSS	55 47				-	
	N	i	59 05					
	E	M	20 16 32	15	8			
	N	M	17 15	15	5			
		F	58 -					
2	NE	iP	00 50 12			41.9	- -	U.S.C.G.S.:36°N,53°E
	N	i	50 47					
	E	ePP	51 45			4655Km	-	
	N	i	52 10				+	T_o = 00h 42m 21s
	NE	iS	56 32				- -	
	N	i	57 22					
	NE	iSS	59 33				- -	
	NE	i	01 05 12					
	N	M	09 52	25	161			
	E	M	11 48	20	137			
		F	04 10 -					
3	N	iP	12 36 13			73.0°	+	U.S.C.G.S.: 50½°N,
	N	iS	45 40			8110 Km	+	179°W
	E	e	13 04 -					T_o = 12h 24m 45s
	NE	LM	09 -					
			-19-					
		F	32 -					
7	E	e	06 14 55					U.S.C.G.S.:39°N,40°E
	N	e	18 40					
	E	L	20 05					
	E	M	22 40	17	2			
	N	M	23 48	17	2			
		F	47 -					
7	E	e	17 16 50					U.S.C.G.S.:67½°S,15[illegible]
	E	M	32 50	20	2			
		F	41 -					
9	NE	e	21 37 35					
		F	33 -					

No. 2

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dirⁿ of Motion N E	Remarks Time of origin
July							N E	
10	NE	e	06 13 -					
	NE	i	14 13					
		F	22 -					
√10	E	iP	09 16 13			78.2°	+	U.S.C.G.S.:8°N,82½°W
	E	ePP	19 17			8690 Km	-	
	NE	iS	26 08				- -	T_o = 09h 04m 15s
	E	eSS	31 23					
	E	eL	40 25					
	E	M	44 43	22	7			
	N	M	46 55	20	3			
		F	10 45 -					
10	E	LM	23 52 -					
			-58-					Very slight
√14	NE	PKP(I)	06 43 22			150½°	+ ?	U.S.C.G.S.:27½°S,177°W
	NE	PKP(II)	44 40			16,720Km	+ -	
	E	i	45 37					
	N	iSKP	46 44				-	Two shocks
	N	iSKS	50 12				+	
	N	iSKKS	53 32				+	
	N	iPSKS	57 15				-	
	N	eSS	07 06 05				-	
	E	L	47 22					
	E	M	53 44	16	3			
		F	Lost in following shock					
√14	NE	i	08 49 50					U.S.C.G.S.:30°S, 177°W
	NE	eL	09 25 -					
	E	M	36 44	22	7			
	N	M	38 52	20	3			
		F	10 26 -					
17	E	e	11 28 50			134.7°		U.S.C.G.S.:11°S, 167°E
	N	iPP	31 57			14965 Km	-	
	NE	i,eSKP	32 54				+ -	T_o = 11h 10m 10s
	N	iPPP	34 52				-	
	N	e	46 -					
		F	13 45 -					
17	E	e	19 05 -					
	E	M	10 45	15	1			U.S.C.G.S.: 1°S, 13°W
	N	M	15 -					
		F	26 -					
√19	NE	i,eS	13 25 04				+ +	U.S.C.G.S.:25°N,122½°E
	NE	isS	25 57				- -	
	E	M	54 52	17	1			
		F	14 10 -					
√21	E	e	06 44 -					U.S.C.G.S.:14½°N,92°W
	E	M	51 45	15	2			Nothing measurable on N-S.
		F	07 02 -					
√23	NE	i,eP	00 56 38			70.8°	+ ?	U.S.C.G.S.:52°N,177°W
	N	i	01 02 05					
	NE	iS	05 52			7865 Km	- +	
	NE	eSS	10 40				+ +	T_o = 00h 45m 23s
	E	e	13 55					
	N	L	25 47					
	E	M	34 58	20	7			
	N	M	35 14	17	5			
		F	03 40 -					

No. 3

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir^{n} of Motion N E	Remarks Time of origin
July								
✓24	NE	e	02 50 30					U.S.C.G.S.: 30°S, 70½°W
	N	M	03 00 44	20	2			
	E	M	00 48	22	3			
		F	21 -					
✓25	E	eS	08 03 12				-	U.S.C.G.S.: 51°N, 177°W
	N	e	03 52					
	E	L	22 40					
	N	L	23 50					
	N	M	31 40	17	2			
	E	M	32 47	17	2			
		F	Lost while changing records					
✓28	E	i	08 52 14		79.1°		+	U.S.C.G.S.: 17°N, 99°W
	NE	iP	52 29		8790Km		+ -	
	NE	iPP	55 29				+ -	Mexican Shock
	N	i	56 52					
	E	iPPP	57 22				-	T_o = 08h 40m 26s
	NE	i	09 01 59					
	NE	iS	02 28				- +	
	E	iSS	08 08				+	N 08m 12s
	N	iSSS	10 57				-	
	E	L	18 -					
	N	M_1	21 16	28	137			
	E	M_1	23 03	24	498			
	N	M_2	23 45	24	122			
		F	13 10 -					
✓29	E	eP	17 28 57			99.9°	+	U.S.C.G.S.: 23½°S, 71½°
	E	ePP	32 57				-	
	NE	e	37 40			11110 Km		
	NE	iSKS	39 48				+ +	
	NE	iPS	41 53				+ +	
	E	L	58 40					
	N	L	18 00 50					
	E	M	08 37	22	10			
	N	M	08 47	22	3			
		F	19 00 -					

Department of Natural Philosophy,
Marischal College,
Aberdeen,
Scotland.

A.E.M.Geddes

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

August, 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	1 lb.	10 sec.	20 : 1	150	18.1 mm. E-W	
E	1 lb.	10 sec.	20 : 1	150	19.0mmN-S	8/11/56

No.	Date	Compt.	Phase	Time G.M.T. h.	m.	s.	Period sec.	Ampl. μ	Δ° km.	Direction of Motion	Remarks: Time of origin.
	Aug.									NE	
1	4	E	e	01	11	10				+	U.S.C.G.S.:
		NE	eSS		15	57				++	3.1/2°S, 145°E
		E	e		16	39				+	
		E	L		35	-					
		N	L		40	-					
		E	M_1		43	44	22	3			
		E	M_2		52	52	20	3			
		N	M		54	02	20	2			
			F	02	08	-					
2	4	E	eS	14	38	37				+	U.S.C.G.S.:
											17°N, 99.1/2°W
		E	eSS		43	54				+	Repeat of Mexican
											Shock of 28.7.57.
		E	M	15	06	44	18	2			Effect on N-S very
			F		34	-					slight.
3	4	NE	e	21	34	06				-+	U.S.C.G.S.: 45°S, 35°E
		N	e		37	02				-	
		E	e		41	57				-	
		N	e		46	42				-	
		E	M	22	09	00	16	9			
		N	M		14	18	15	5			
			F		58	-					
4	8	NE	iS	22	52	29				-+	U.S.C.G.S.: 7°S, 13°W
		E	i		54	32				+	
		E	e		59	40					
		E	M	23	06	52	18	2			
5	9	NE	e	02	58	06				-+	U.S.C.G.S.: 2°S, 137°E
		N	e	03	03	16				+	
		NE	L		27	40					
		E	M		32	51	20	3			
		N	M		32	56	20	3			
			F		56	-					
6	16	E	i	23	47	57				+	U.S.C.G.S.: 10 1/2°N,
											104°W
		E	e		50	50				-	
		N	i		52	58				+	
		NE	iS		55	36				--	
		E	L	24	13	-					
		E	M		17	43	25	22			
		N	M		18	45	25	4			
		E	M_2		25	57	16	9			
		N	M_2		28	42	15	2			
			F	26	00	-					

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.	Dirn of Motion	Remarks Time of origin
	Aug.								
7	18	NE	L	09 22 -					
		N	M_1	30 55	22	31			B.C.I.S.: 12°N, 124½°E
		E	M_1	31 18	22	56			Early portion lost during
		N	M_2	39 08	20	11			changing of charts.
		E	M_2	39 12	17	14			
			F	10 18 -					
8	18	E	e	21 52 40					U.S.C.G.S: 50°N, 157°E
		E	i	22 03 32				+	
		E	e	12 05				-	
		E	L	19 00					
		E	M_1	24 32	22	8			
		E	M_2	27 33	17	6			
			F	23 19 -					
9	23	E	e	02 38 05				+	U.S.C.G.S.: 6°S, 154½°E
		E	L	53 30					No readable effect on
		E	M	03 05-13					N-S component.
			F	36 -					
10	26	E	e	11 51 55				-	U.S.C.G.S.: 19°S, 63°W
		N	eSKS	52 35				-	
		E	i	54 15				-	
		N	iPPS	54 38				+	
		NE	L	12 09 30					
		N	M	15 55	22	6			
		E	M	18 36	19	12			
			F	13 13 -					
11	26	E	e	14 11 35				+	U.S.C.G.S.: 12°S, 81°W
		E	i	15 42				-	
		NE	i	21 55				--	
		E	iS	22 53					
		N	iPS	24 00				+	
		E	L	40 -				+	
		N	M	47 46	20	6			
		E	M	50 06	18	11			
			F	15 25 -					
12	29		Slight	effect on E-W component from 00h 13m -					00h 33m
13	30	E	e	16 36 50				-	
		N	i	37 54				-	
		NE	i	45 31				++	Very slight
		E	i	49 21				+	
			F	17 05 -					
14	30	E	e	20 51 45					
		N	e	56 30					
		E	M	21 01 53	17	2			
			F	07 -					
15	31	E	e	12 33 40					
		N	LM	36-42					
		E	M	37 38	15	3			
			F	46 -					

Natural Philosophy Dept.,
Marischal College,
Aberdeen.

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

September, 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	1 lb.	10 sec.	20 : 1	150	18.1 mm. E-W	8/11/56
E	1 lb.	10 sec.	20 : 1	150	19.0mm N-S	

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dirn. of Motion	Remarks Time of origin
	Sep.							NE	
1	2	Slight effect from 21h 48m - 22h 03m.							U.S.C.G.S.: 37°N, 71°E
2	3	NE	LM	20 31 -35					
			F	47 -					
3	4	E	e	05 46 -					U.S.C.G.S.: South Indian Ocean
		E	M	55 40	15	2			
			F	06 03 -					
4	9	E	e	01 23 45					U.S.C.G.S.: 48°S, 100°E
		N	LM	30 -40					
		E	L	34 51	20	4			
			F	52 -					
5	12	E	e	00 48 -					U.S.C.G.S.: 17½°N, 85°W
		E	iSS	53 35				+	
		E	e	01 02 45					Very slight on N-S component
		E	M	11 39	17	4			
			F	35 -					
6	20	Slight disturbance 22h 27m - 22h 58m. May not be seismic.							
7	21	E	iS	20 27 49			28.7°	+	U.S.C.G.S: 40½°N, 34½°E
		E	L	34 30			3190Km		T = 20h 16m 53s
		E	M	38 39	15	2			N8 N-S record: light cut off.
			F	50 -					
8	24	E	iP	08 35 29			105.5°	+	U.S.C.G.S.: 5½°N, 127½°E
		N	iPP	39 45			11720Km	-	Near Mindinao
		E	i	39 51				-	T_o = 08h 21m 21s
		E	iPPP	42 02					
		E	iSKKS	46 41				-	N 47m 00s
		E	iS	47 41					
		E	iPS	49 07					
		E	iSS	54 44				+	
		E	L	09 09 -					
		E	M_1	16 26	32	462			
		E	M_2	19 22	26.	332			
		N	M_1	19 43	25	222			
		N	M_2	25 23	24	145			
		E	M_3	25 56	22	325			
			F	11 03 -					

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^{n} of motion	Remarks Time of origin
	Sep.							N E	
9	25	NE	i	06 05 22				- +	U.S.C.G.S.: 34°N, 38½°W
		N	i	10 14				-	
		E	i	11 02				-	No maximum
		N	i	12 05				-	
			F	32 -					
10	25	E	eL	17 30 30					U.S.C.G.S.:
		N	e	32 35					Mindinao aftershock
		E	M_1	38 45	22	3			
		E	M_2	43 55	18	4			
			F	58 -					
11	27	E	e	05 05 35					U.S.C.G.S.: 1°S, 127°E
		N	e	11 30					
		E	M	12 42	25	4			
			F	33 -					
12	28	NE	iS	00 49 18				- -	U.S.C.G.S.: 30½°N, 137½°
		E	e	52 -					
			F	57 -					
13	28	N	iPKP	14 38 31				+	E 38m 37s
		E	e	41 20				+	
		N	iPP	41 41				+	U.S.C.G.S.: 20½°S, 178°
		E	i	44 00				-	
		NE	i	49 36				+ -	
		N	i	57 18				+	
		E	iSS	59 36				+	
		E	i	15 03 20				-	
		E	e	07 37				+	
		E	M	31 18	25	26			
			F	16 42 -					

Natural Philosophy Department,

University of Aberdeen.

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

October, 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	1 lb.	10 sec.	20 : 1	150	18.1 mm. E-W	8/11/56
E	1 lb.	10 sec.	20 : 1	150	19.0mm N-S	

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir^n. of Motion N E	Remarks Time of origin
	Oct.								
1	2	E	i	12 44 24				+	U.S.C.G.S.: 11°N, 63°W
		NE	i, eS	47 14			64.7°	- +	Venezuela foreshock
		E	iPS	47 39			7190Km	+	
		E	i	53 44				+	
		E	M	13 01 46	20	4			
			F	17 -					
2	4	E	eP	05 36 49			64.7°	-	U.S.C.G.S.: 11°N, 63°W
		NE	e, i	37 24			7190Km	- +	Venezuela shock
		N	iPPP	40 34				-	
		E	i	40 46					T_o = 05h 26m 15s
		NE	iS	45 29				- +	
		E	iPS	46 04				-	
		E	i	47 57				+	
		N	L	53 40					
		E	M	06 00 24	18	22			
			F	07 20 -					
3	5	Slight effect on N-S from 00h 05m - 00h 49m							U.S.C.G.S.: 53°N, 178°W
4	5	NE	LM	11 54 -					U.S.C.G.S.: 34½°N, 26½°E
				12 07 -					Crete
5	5	NE	LM	23 11 -					U.S.C.G.S.: 38°N, 69½°E
				-15 -					
6	13	NE	Slight effect from 05h 03m - 05h 25m						U.S.C.G.S.: 52½°N, 160°E
7	13	N	Slight effect from 22h 07m - 22h 23m						U.S.C.G.S.: 60°S, 151°E
8	19	E	eP	18 41 39			86.1°	+	U.S.C.G.S.: 23½°N, 122°E
		E	ePP	45 04			9565Km	+	
		E	i	51 19				+	T_o = 18h 29m 00s
		NE	iS	52 14				+ -	
		E	i	56 08				+	
		E	L	08 -					
		N	L	10 -					
		E	M_1	16 40	24	122			
		N	M_1	16 54	20	55			
		E	M_2	24 37	17	82			
		N	M_2	24 44	16	64			
			F	20 25 -					
9	20	E	i	12 17 15				+	U.S.C.G.S.: 11½°N, 42°W
		N	i	17 25				-	
		NE	i, e	21 46				- -	
		NE	M	29 04	E22 N21	23 14			
			F	13 13 -					

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.	Dirn of Motion N	Dirn of Motion E	Remarks Time of origin
	Oct.									
10	23	N	iP	06 08 08			69.2°	+		U.S.C.G.S.: 52½°N, 169½°W
		N	iS	17 13			7690Km	-		
		N	i	18 05				-		
		E	i	18 16					+	T_o= 05h 57m 03s
		N	eSS	32 -						
		NE	eL	37 15						
		N	M	44 11	16	4				
		E	M	48 10	15	2				
			F	59 -						
11	24	E	e	22 22 40						U.S.C.G.S.: 25°N, 109½°W
		N	e	22 50						
		N	i	24 46						
		E	e	27 21				+		
			F	51 -					-	No definite maximum
12	25	E	Slight effect 07h 15m - 07h 17m May not be seismic							U.S.C.G.S.: 21½°N, 121½°E
13	25	E	e	10 25 15					+	U.S.C.G.S.: 50½°N, 156½°E
		E	e	32 20					-	No N-S record: light cut off
		E	L	35 10						
		E	M	45 26	22	7				
			F	11 15 -						
14	(see below)									
15	30	NE	i	01 59 04				-	+	B.C.I.S.: 35½°N, 27°E
		E	i	02 02 14					+	
		N	i	02 30				+		
		E	i	05 37					+	
			F	13 -						
16	(see below)									
17	31	E	iP	10 19 51			81.7°		+	
		E	i	28 33			9080Km		-	
		NE	iS	30 04				-	+	
		E	i	31 51					+	
		E	eSS	35 21					+	
		N	e	42 30						
		E	M	45 56	30	19				
		N	M	50 33	20	8				
			F	11 31 -						
14	26	NE	Slight effect from 15h 13m - 15h 43m							U.S.C.G.S.: 2°S, 116°E
16	30	NE	LM	07 47 - -58-						B.C.I.S.: 35½°N, 27°E

Natural Philosophy Department,
University of Aberdeen.

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

November, 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	1 lb.	10 sec.	20 : 1	150	18.1 mm E-W	8/11/56
E	1 lb.	10 sec.	20 : 1	150	19.0mm N-S	

No.	Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dirⁿ of Motion N	Dirⁿ of Motion E	Remarks Time of origin
	Nov.									
1	10	E	LM	00 11 -						
				-15 -						
2	√10	E	i	06 48 01					+	U.S.C.G.S.: 6½° S, 147° E
		E	e	59 15						
		E	M	07 06 21	16	1				
			F	12 -						
3	√10	E	iS	19 43 21					+	U.S.C.G.S.: 34° N, 139½° E
		E	i	59 16					+	
		E	L	20 01 15						
		E	M	08 08	18	6				
		N	M	08 16	18	2				
			F	46 -						
4	√13	E	ePKP	17 42 47					+	U.S.C.G.S.: 33° S, 179° W
		N	i	43 17				+		
		N	i	51 42				+		
		E	e	18 05 10					+	
		N	eSS	06 27				+		
		E	eL	38 15						
		N	M	45 05	23	7				
		E	M	49 18	20	6				
			F	19 46 -						
5	√15	E	e	08 45 -						U.S.C.G.S.: 8½° N, 124° E
		N	e	47 30						
		N	M	55 07	20	4				
		NE	M	57 42	15	2				
			F	09 16 -						
6	√15	N	i	16 39 16				-		U.S.C.G.S.: 51½° N, 158° E
		E	eP	42 12					-	
		NE	i	44 14				-	-	
		N	e	17 03 09						
		E	M	18 45	18	2				
		N	M	19 27	15	1				
			F	45 -						
7	√20	N	e	12 56 40				-		U.S.C.G.S.: 54° N, 165° W
		N	eS	13 00 35				-		
		E	i	01 46					+	
		E	eSSS	07 32					-	
		NE	e, i	08 46				-	+	
		N	L	15 40						

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^{n} of Motion	Remarks Time of origin
7	20 (contd)	E	M_1	13 21 39	20	.6		N E	
		N	M_1	23 30	22	20			
		E	M_2	24 00	17	8			
		N	M_2	24 34	17	16			
			F	47 -					
8	25	E	iPS	23 02 55				+	U.S.C.G.S.: 17½°S, 116°E
		E	i	04 15				+	
		E	i	09 35				+	
		E	i	13 42				+	
		E	i	18 07				+	Very slight on N-S compt.
		E	L	33 25					
		N	L	36 30					
		E	M	43 20	18	2			
		N	M	43 -					
				-45-					
			F	58 -					
9	26	E	LM	06 10 -					U.S.C.G.S.: 2°S, 116°E
				-25-					
10	27	E	i	03 17 40				-	B.C.I.S.: 39¼°N, 22¾°E
		E	i	22 56				-	
		N	LM	24 40					
				-28 20					
		E	M	25 27	12	2			
			F	31 -					
11	29	E	iP	22 32 55			94.0°	-	U.S.C.G.S.: 21°S, 66°W
		E	i	33 44			10445Km	+	
		E	iPP	35 55				-	
		E	i	37 27				+	Light failed on N-S compt.
		E	iSKS	42 56				+	
		E	iS	43 38				+	Deep focus
		E	iPS	44 58				+	
		E	iSS	50 12				+	
		E	i	55 55				+	
		E	L	23 07 35					
		E	M	11 50	20	110			
			F	25 30 -					
12	30	N	e	22 39 -					
		E	LM	43 -					
				-50-					
		N	LM	46 -					Very slight
				-52-					
			F	23 15 -					

Natural Philosophy Department,
The University,
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A.E.M.Geddes

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.

December, 1957

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	1 lb.	10 sec.	20 : 1	150	19.0mm N-S	8/11/56

No. Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Dir^{n} of Motion N	Dir^{n} of Motion E	Remarks Time of origin
Dec.									
1 ✓ 4	NE	iP	03 47 52			59.6°	+	+	U.S.C.G.S.: 45½°N, 99½°E
	N	i	48 12			6620Km	+		Outer Mongolia Shock
	N	iPPP	51 17				+		
	E	i	51 27					+	
	E	i	54 00				+	+	N 53m 57s
	NE	iS	56 02				+	-	
	N	iSS	59 34				-		T_o = 03h 37m 50m
	E	i	04 01 37					+	
	N	i	02 33				-		
	N	L	07 -						
	N	M	16 27	14	833				
	E	M	17 12	15	758				
		F	08 14 -						
2 ✓ 4	N	eL	13 48 30						U.S.C.G.S.: 45°N, 101½°E
	E	eL	50 40						
	NE	M	53 27	20	5				
		F	14 07 -						
3 ✓ 10	N	e	15 24 25				-		U.S.C.G.S.: 6°S, 154½°E
	E	e	29 30					+	
	NE	e	40 45				-	+	
	N	M	56 27	20	8				
	E	M	57 32	20	14				
		F	16 34 -						
4 ✓ 13	E	iP	01 52 38					-	U.S.C.G.S.: 34½°N, 48°E
	E	iPP	54 06					+	Iran shock
	E	iS	58 49					-	T_o = 01h 44m 59s
	E	iSS	02 01 27					-	
	E	i	05 19					+	Light failed on N-S
	E	i	08 03					-	Compt.
	E	M	13 55	16	58				
	E	M	14 53	15	61				
		F	03 41 -						
5 ✓ 13	E	e	21 04 30						U.S.C.G.S.: 52½°N, 170°W
	N	e	05 20						
	N	M	11 20	15	2				
	E	M	16 25	15	1				
		F	29 -						
6 16 ✓	E	e	17 59 25						U.S.C.G.S.: 50°N, 127°W
	N	LM	18 01 40						
			-04-						
	E	M	02 45	20	11				
		F	13 -						

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.	Dirⁿ of Motion N	E	Remarks Time of origin
	Dec.											
7	17	E	e	05	30	10					+	U.S.C.G.S.: 43½°N, 162°E
		E	i		30	31					+	
		E	iS		31	33					+	
		E	eSSS		40	20					+	
		N	e		52	40				-		
		E	M		59	44	16	13				
		N	M	06	01	41	15	3				
			F	07	17	-						
8	17	NE	iPKP	14	09	35				+	+	U.S.C.G.S.: 12°S, 167°E
		N	i		12	30				+	+	E 12m 25s
		NE	iSKP		13	00				-	-	
		NE	i		13	30				+	+	
		N	iPPP		14	53				+		T_o = 13h 50m 17s
		N	i		17	41				-		
		N	i		22	00				+		
		E	i		25	40				-	+	N 25m 43s
		N	i		26	06				+		
		N	i		29	00				+		
		E	i		45	00					+	
		N	M		55	30	33	30				
		E	M		59	20	20	47				
			F	17	00	-						
9	23	N	e	12	47	25						U.S.C.G.S: 35°N, 36½°W
		N	M		48	40	20	16				
			F		59	-						
10	28	E	e	15	19	40						
		E	M		25	03	20	8				Very slight on N-S Compt.
			F		31	-						
11	31	NE	e,i	10	28	40				-	-	
		N	M_1		30	45	13	6				
		E	M		31	24	12.5	9				
		N	M_2		31	45	10	7				
			F		41	-						
12	31	N	i	13	15	25				+		
		E	e		15	45					+	
		N	M		16	27	12	1				
		E	M		17	17	12.5	2				
			F		27	-						
13	31	N	e	16	01	30						
		E	e		07	20						
		N	M		11	28	20	3				
		E	M		12	28	18	3				
			F		25	-						

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