SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

JAN/MARCH 1952

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.	14th July 1951
E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	14th July 1951

Date	Compt.	Phase	Time G.M.T. h.	m.	s.	Period sec.	Ampl. μ	Δ° km.	Remarks: Time of origin.
Jan 3	E	e	06	24	50				Very slight; No trace on N-S component
		F		33	—				U.S.C.G.S.: 40½°N, 41½°E
Jan 12	N	iS	20	32	09				
	N	eSS		40	00			69·3°	U.S.C.G.S.: 53°N, 164°W.
	N	i		53	04			7700 Km	
	N	M		55	59	16	slight		T_0 = 20h 11m 40s.
		F	21	14	—				No E-W record available.
Jan 13	N	iS	04	27	33				
	N	i		34	39			89·2°	U.S.C.G.S.: 22°N, 124½°E
	N	e		45	20			9910 Km	
	N	M_1		52	12	25	39		No E-W record available.
	N	M_2		54	56	18	22		
		F	05	21	—				
Jan. 21	NE	iPS	04	03	33				
	E	eSS		07	10				U.S.C.G.S.: 53°N, 166½°W.
	N	eSSS		11	00				
	E	i		19	00				
	N	e		24	30				
	E	i		24	54				
	N	M		27	00	17	4		
	E	M		31	00	15	5		
		F	05	07	—				
Jan 24	E	e	04	05	20				Very slight, no trace on N-S component.
		F		13	—				
Jan 31	N	e	21	37	18				
	N	M		38	50	19	12		
		F		48	—				
Feb 10	E	i	06	16	20				N-S Trace not readable.
	E	i		17	00				U.S.C.G.S.: 42½°N, 2°E
	E	i		17	38				
	E	i		19	10				
		F		30	—				
Feb 11	E	iSKS	07	24	20			106·7°	U.S.C.G.S: 6°S, 110°E.
	NE	iSKKS		25	21			11,850 Km.	T_0 = 07h 01m 07s.
	E	iPS		28	06				
	NE	iSS		32	50				
	E	iSSS		36	50				
		F		46	—				

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 14	E	i	03	58	05			114°	U.S.C.G.S.: 8°S, 125°E.
	NE	i		58	24				
	E	i		59	20				
	NE	iPPP	04	00	59				
	NE	iSKS		03	50				E 04h 04m 06s.
	E	iPS		07	44				
	NE	iPPS		09	09				
	NE	i		10	40				
	NE	iSS		14	15				
	E	i		20	00				
	NE	L		30	10				
	NE	L		35	04				
	E	Mq		39	20	27	98		
	N	Mq		40	04	30	43		
	N	MR		46	22	25	43		
	E	MR		52	32	22	66		
		F	06	28	—				
Feb 14	E	e	21	41	10				
	N	e		46	10				U.S.C.G.S.: 7½°N 76½°W.
		F		48	—				Very slight.
Feb. 17	N	e	18	17	12				
	NE	e		15	02				Very slight surface waves.
	N	M		24	09				
		F		33	—				
Feb 25	N	iPP	01	39	26			140°	U.S.C.G.S.: 17°S, 173½°W.
	NE	i		40	08			15,560 Km	
	NE	iSKS		44	06				
	NE	iSKSP		50	06				T_0 = 01h 14h 51s.
	NE	i		54	40				
	E	iSS		56	21				
	NE	e	02	20	56				
	N	M		30	26	20	8		
	E	M		33	31	20	10		
		F	03	35	—				
Feb. 16	N	i	11	44	06				
	E	i		44	41			94·5°	U.S.C.G.S.: 15°S, 69°W.
	NE	iPP		47	18			10,500 Km	
	NE	iPP		48	08				T_0 = 11h 30m 34s.
	NE	iSKS		53	41				
	NE	iSKS		55	23				
	N	iPS		56	05				
	E	iPPS		56	45				
	NE	iSS	12	00	13				
	NE	iE,eN		08	40				E 12h 00m 08s.
	E	eL		14	50				
	E	M		19	13	19	9		
		F		50	—				
Feb 26	E	e	16	02	06				
	N	eSS		08	55				U.S.C.G.S.: 11½°N, 86½°W.
	E	eSSS		11	58				
	E	Mq		18	19	26	14		
	N	M		22	13	20	3		
		F		51					

SMOLOGICAL 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 4	NE	iP	01	34	57			46.5°	N 34 m 55 s.
	N	i		35	40			8500 km	U.S.C.G.S.: 42½°N, 143½°E.
	E	iPP		37	48				
	NE	iPPP		39	35				
	NE	iS		44	40				T_0 = 01h 23·2 m.
	N	i		45	55				
	NE	iSS		49	45				
	E	iSSS		52	43				
	E	L		56	35				
	E	M_Q	02	01	40	40	2000		
	N	L		05	05				
	E	L		06	17				
	E	M_R		12	20	20	1644		
	N	M_R		15	10	20	1644		Actual displacement on record 60 mm.
		F	06	15	—				Long coda, probably due to several reversals.
Mar. 4	N	i	17	01	26				
	E	i		04	46				
	E	i		16	16				
	N	e		17	06				
	NE	Ei, Ne		22	48				
	N	M		25	11	15	3		
		F		41	—				
Mar. 4.	E	e	20	13	38				
	NE	i		18	00				U.S.C.G.S.: 42°N, 146°E
	E	i		19	16				
	N	i		20	00				
	E	i		21	21				
	N	e		22	40				
	E	e		34	06				
	E	e		36	18				
	N	M		39	30				
	E	M		44	34	16	24		
		F	21	44	49	17	22		
				57	—				
Mar 5	N	e	04	24	20				
	N	e		33	50				U.S.C.G.S.: aftershock of previous.
	N	M		43	36	15	5		
		F	05	05	—				
Mar. 5.	E	e	10	02	40				
	E	M		03	30	20	3		Slight surface waves.
	N	F		09	20	16	—		
				20	—				
Mar. 5.	N	e	16	16	20				
	NNE	e		26	40				U.S.C.G.S.: 24½°N, 108½°W.
	E	e		27	00				
	E	e		31	20				
	NE	e		39	40				
	NE	M_Q		40	37	20	8		
		M_R		46	22	18 E	11?		
		F	17	07	—	15 N	8?		
Mar. 7.	E	i	07	53	37				
	E	i		57	15				U.S.C.G.S.: 36°N, 136½°E
	E	i	08	00	40				Very badly obscured by shaking of building
	NE	e		04	05				
	E	e		11	40				
	N	M		19	56	19	42		
	E	M		20	05	17	26		
		F	09	09	—				

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. 9	NE	Ne E1	05 52 19				
	N	M	52 50	13	8		
	E	M	53 17	11	9		
		F	06 00 –				
Mar 9	N	iP	17 15 42			76.5°	U.S.C.G.S.: 42°N, 143½°E.
	N	iPcP	15 53			8500 km	
	NE	i	17 20				T_0 = 17h 03m 52s.
	N	iPP	18 38				
	NE	iS	25 27				
	NE	iPS	26 04				
	NE	i	30 23				
	E	L	34 40				N 34m 38s.
	N	L	38 30				
	E	Ma	40 20				
	N	L	41 15	32	86		
	E	MR	45 20				
	N	MR	52 04	21	103		
		F	52 24	18	60		
			18 57 –				
Mar. 9	E	e	20 28 25				U.S.C.G.S.: 59½°N, 136°W.
	N	e	29 20				
	E	i	32 40				
	NE	i	34 13				
	N	M	36 32	17	18		
		F	48 –				
Mar 12	E	e	12 18 48				
	NE	e	19 36				
	NE	i	20 15				
	E	i	22 14				
	N	i	22 38				
		F	49 –				
Mar. 13.	NE	i	14 19 34				U.S.C.G.S.; 28½°N, 127°E.
	NE	i	21 44				
		F	33 –				
Mar. 14.	N	e	21 44 25				Very slight surface waves.
		F	51 –				
Mar. 15	E	e	11 40 52				
	E	e	42 16				
	NE	e	47 45				
	E	eL	55 25				
	N	eL	12 02 20				
	E	M_1	15 28	22	13		
	N	M	18 36	20	11		
	E	M_2	19 49	20	13		
		F	50 –				
Mar. 19.	N	e	01 34 30				Observed by shaking of bunsen
	E	i	37 35				
	E	M	44 48	12	4		Maximum very indefinite.
		F	02 02 –				

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 19	N	iP	11	11	11			101·3°	U.S.C.G.S.: 9½°N, 127°E.
	N	iPP		15	26			11,255·1km	
	N	iPPP		17	27				No E-W record available.
	N	iSKS		21	57				
	N	iS		22	52				T_0 = 10h 57m 20s.
	N	iPS		24	20				
	N	i		28	03				
	N	iSS		30	11				
	N	iSSS		34	11				
	N	i		37	34				
	N	i		43	00				
	N	i		46	11				
	N	L		50	12				
	N	M	12	01	16				
		F	14	03	—	15	184		
Mar 23.	E	e	16	16	33				U.S.C.G.S.: Near Samar, Philippine Islands.
	N	e		19	15				
	N	M_Q		21	46	22	13		
	E	M_Q		23	10	22	10		
	E	M_R		28	05	22	13		
	N	M_R		30	33	20	8		
		F		40	—				
Mar 25	N	e	03	52	—				Very slight. No indication on E-W component.
		F		59	—				
Mar 25.	E	e	10	35	35				Slight surface waves. Very doubtful on N-S component.
		F		58	—				

Natural Philosophy Department,
Marischal College,
Aberdeen.

A. Ellis Geddes.

April-June 1952.

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.

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.	N-S 17/3/52
E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	E-W 17/3/52

Date	Compt.	Phase	Time G.M.T. h.	m.	s.	Period sec.	Ampl. μ	Δ° km.	Remarks: Time of origin.
Apr. 1	N	e	21	08	-				Slight surface waves.
		F		24	-				
Apr. 4	E	i	03	08	27				U.S.C.G.S. 52°N. 159½°E.
	E	i		09	46				
	NE	e		13	11				
	N	e		30	56				
	E	i		36	00				
	N	M		42	53	15	3		
		F	04	14	-				
Apr. 8	E	e	10	24	36				
	N	e		31	46				
	NE	e		51	33				
	NE	M		57	32	20	7		
	E	M	11	03	26	18	8		
		F		29	-				
Apr.10	E	e	06	43	57				U.S.C.G.S. 25°N. 126°E.
	N	e		44	47				
	E	M		53	58	20	3		No definite maximum on N-S.
		F	07	13	-				
Apr. 15	E	eP	00	08	50			73.4°	
	NE	i		16	05			8150 Km	
	E	eS		18	18				
	N	i		20	44				
	NE	e		41	05				
	N	M		50	16	22	18		
	E	M		50	40	22	17		
		F	01	16	-				
Apr. 15	E	i	19	30	10				U.S.C.G.S. 56°S. 24°W.
	NE	i		31	44				
	NE	e		37	45				
	E	e		50	54				
	N			54	44				
	N	M	20	02	53	20	8		
	E	M		05	46	20	8		
		F		46	-				
Apr. 18	NE	e	16	56	50				
	NE	eL	17	01	44				
	E	M		07	52	20	6		
	N	M		08	00	20	3		
		F		15	-				

No. 1.

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.
Apr.19	E	iP	10	10	30			71.4°	U.S.C.G.S. 7°N. 71½°W.
	E	i		11	26			7140 Km	
	E	iPP		13	06				T_o = 09h 59m 07s.
	E	iPPP		14	35				
	NE	iS		19	47				
	E	i		20	33				
	E	eL		28	30				
	N	eL		29	30				
	E	M		39	44	20	14		
	N	M		42	06	18	4		
		F	12	00	-				
Apr.19	N	e	12	04	50				
	E	e		05	50				
	N	M		14	55	18	4		
	E	M		17	00	22	3		
		F	13	25	-				
Apr.28	E	e	11	14	40				Obscured on N-S component by shaking of building.
	E	eS		15	39				
	E	eL		25	50				U.S.C.G.S. 42½°N, 143°E.
	E	M		31	40	20	3		
		F		52	-				
Apr.29	E	i	02	48	44			84.5°	U.S.C.G.S. 26°N, 122½°E.
	E	ePPP		52	47			9390 Km	
	NE	iSKS		57	34				T_o = 02h 35m 13s.
	NE	iS		57	54				
	NE	iPS		59	27				
	N	eSS	03	03	34				
		F	04	06	-				
May 4	E	i	14	41	19				U.S.C.G.S. 24½°S, 177½°W.
	E	i		54	36				
	N	i		58	51				
	E	i	15	04	49				
	E	eL		32	05				
	N	M		34	05	20	3		
	E	M		41	-	20	3		
		F	16	25	-				
May 8	E	e	01	40	-				Very s. ight
	N	e		44	40				U.S.C.G.S. 35½°N, 140°E.
		F		54	-				
May 8	E	i	21	29	37			106.5°	U.S.C.G.S. 2½°N, 127°E.
	NE	i		30	37			11,850 Km	
	E	iSKKS		36	14				
	NE	iS		37	09				
	E	iPS		38	45				
	N	iPS		38	51				
	N	eL	22	00	50				
	E	eL		01	35				
	NE	M		08	50	23	11		
		F		39	-				
May 9	NE	iPP	18	08	35			127°	U.S.C.G.S. 6½°S, 155°E.
	E	iPPP		11	35			14,110 Km	
	N	iSKS		13	50				
	N	i		18	12				
	E	ePS		18	45				
	E	e		23	52				
	N	eSS		25	35				
	E	e		33	00				

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 9 (Contd)	N	e	40 35				
	N	M	52 20	33	31		
	E	M	54 15	25	35		
		F	20 11 -				
May 13	E	iPP	19 46 36			76°	U.S.C.G.S. 10½°N, 85°W.
	E	iPPP	47 31			8450 Km	
	N	e	49 40				
	NE	e,i	54 30				
	E	e	20 04 15				
	N	e	06 35				
	E	L	08 55				
	E	M_Q	11 -	21	11		
	N	M_Q	12 -	20	11		
	E	eL	13 25				
	E	M_R	21 24	16	18		
	N	M_R	26 34	16	9		
		F	21 10 -				
May 14	N	e	01 18 35				
	E	e	22 15				Slight surface waves.
	N	M	22 55	20	6		
	E	M	23 35	20	8		
		F	52 -				
May 16	E	iPP	21 00 46			78°	U.S.C.G.S. 6½°N, 79°W.
	NE	iS	07 25			8670 Km	
	N	iPS	08 12				
	E	i	10 00				
	N	i	11 45				
	N	e	20 15				
	E	e	21 37				
	E	M	26 45	20	16		
	N	M	28 00	18	4		
		F	57 -				
May 17	N	i	10 01 37				U.S.C.G.S. 42½°N, 144½°E.
	E	i	01 56				
	E	i	07 46				
	NE	iS	09 55				
	E	e	24 45				
	E	M	34 -	21	18		
	N	M	34 20	18	11		
		F	11 09 -				
May 19	E	e	06 12 -				Very slight
	N	e	17 -				
		F	22 -				
May 19	E	i	18 43 45			77.4°	U.S.C.G.S. 29½°N, 131½°E.
	NE	iP	44 15			8600 Km	E 44 m 19s.
	E	i	46 56				
	N	iPP	47 14				
	NE	iS	54 05				T_o = 18h 32m 22s.
	NE	i	54 25				
	N	iPS	54 55				
	E	i	58 45				
	NE	e	19 03 10				
	NE	L	07 35				
	E	L	13 25				
	N	M	17 45	20	33		
	E	M	18 08	20	55		
		F	20 36 -				

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h.	m.	s.	Period sec.	Ampl. μ	$\Delta°$ km.	Remarks: Time of origin.
May 22/23	E	i	23	22	44			85.0°	U.S.C.G.S. 29½°N, 131½°E.
	E	iSKS		31	15			9450 Km	
	E	iS		31	36				
	E	e		50	56				
	N	e		53	46	23	5E		
	NE	M_1		54	46	25	4N		
	NE	M_2	00	01	-	23	3		
		F		25	-				
May 23	NE	e	05	07	50				U.S.C.G.S. 33°N, 136°E.
	N	e		11	55				
	E	e		17	35				No definite maximum.
		F		29	-				
May 24	NE	e	02	30	35				U.S.C.G.S. 21½°S, 71°W.
	NE	e		43	55				
	E	M		52	55	22	5		
	N	M		59	35	20	3		
		F	03	18	-				
May 25	NE	e,i	16	21	36				
	E	e		29	46				
	E	i		30	19				
	N	i		30	44				
	E	i		32	15				
	E	e		39	52				
	N	e		41	46				
	E	e		45	05				
	N	e		48	-				
	N	M_1		58	10	25	13		
	N	M_2		06	15	25	17		
	E	M	17	06	23	23	14		
		F	19	00	-				
May 26	N	e	03	00	37				
	N	e		03	45				
	NE	i		06	54				
	NE	i		07	52				
	N	e		24	52				
	E	e		26	57				
	N	M		30	50	17	4		
	E	M		30	57	15	6		
		F		45	-				
May 31	N	e	06	16	08				No definite maximum.
	E	e		29	10				
		F		50	-				
June 4	E	e	06	49	40				Doubtful on N-S component through shaking of building
	E	M		54	51	15	2		
		F	07	03	-				
June 10	NE	iPP	10	20	40			138.5°	Phases doubtful.
	E	i		22	00			15,400Km	U.S.C.G.S. 15½°S, 178½°W.
	N	iSKS		24	58				
	E	iS		28	58				T_o = 09h 58m 30s.
	N	iPSKS		31	09				
	E	i		33	40				
	NE	iSS		38	36				
	NE	e		59	30				
	E	eL	11	04	44				
	N	M_1		08	52	23	5		
	N	M_2		15	55	20	5		
	E	M		16	06	22	7		
		F	12	19	-				

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 11	E	eP	00 46 05			100.8°	Phases doubtful.
	NE	iPP	50 08			12,090Km	
	NE	i	52 47				
	NE	iSKS	56 27				
	NE	i	59 20				Ne
	N	i	01 09 00				
	NE	e	14 34				
	E	L	20 20				
	N	L	21 40				
	E	M	35 15	20	14		
	N	M	35 45	18	6		
		F	03 06 -				
June 15	N	e	15 44 50				Very slight.
	E	e	51 00				
		F	16 02 -				
June 17	E	e	04 46 -				Obscured on N-S component by shaking of building.
		F	05 07 -				
June 19	N	iPP	12 27 43			76.5°	
	E	e	27 55			8,500 Km	
	NE	i	31 06				T_o = 12h 13.1m.
	NE	iS	34 50				
	E	i	38 50				
	N	iSS	39 51				
	NE	iSSS	43 00				
	E	L	46 35				
	N	L	47 50				
	NE	M	56 02	24 N	102)		
				E	86)		
		F	14 09 -				
June 19	NE	e	21 31 00				
	NE	i	32 50				
	NE	i	35 48				
	NE	i	46 40				
	N	L	22 01 00				
	E	L	01 55				
	E	M	12 00	20	8		
	N	M	16 42	20	11		
		F	50 -				
June 20	NE	iP	05 59 02			85.5°	
	NE	iPP	06 02 26			9500 Km	
	NE	iS	09 36				T_o = 05h 46.5m
	N	i	10 04				
	E	iPS	10 40				
	NE	iSS	15 13				
	NE	e	19 50				
	NE	eL	29 50				
	E	M_1	33 50	24	43		
	N	M_1	33 59	20	25		
	E	M_2	41 38	15	60		
	N	M_2	41 46	15	50		
		F	07 30 -				
June 22	NE	iP	21 53 32			74.8°	
	NE	iPP	56 24			8310 Km	
	NE	iPPP	57 48				N 57m 52s.
	NE	iS	22 03 08				
	NE	iPS	03 54				T_o = 21h 41m 55s.
	E	i	07 59				
	N	iSS	08 12				

No. 5.

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

Date	Compt.	Phase	Time G.M.T. h.	m.	s.	Period sec.	Ampl. μ	$\Delta°$ km.	Remarks: Time of origin.
June 22	NE	i		12	08				
	E	i		13	32				
	N	L		21	50				
	E	L		23	00				
	N	M		30	42	16	29		
	E	M		31	59	16	36		
		F	24	48	-				
June 23	NE	e	12	39	-				
	E	eL		45	15				
	N	eL		46	05				
	E	M_1		50	47	24	10		
	N	M_1		51	08	20	4		
	E	M_2		58	20	17	12		
	N	M_2		58	42	15	6		
		F	13	18	-				
June 25	E	e	23	56	50				
	E	M	24	01	08	20	5		No N-S record through failur of light.
		F		22	-				
June 26	E	e	15	31	-				
	N	e		33	-				
	NE	i		43	00				
	N	M		47	09	11	3		
	E	M		47	16	10	3		
		F		58	-				

Natural Philosophy Department,
Marischal College,
Aberdeen.

SEISMOLOGICAL BULLETIN

July - September 1952

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.

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.	N-S 17/3/52
E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	E-W 17/3/52

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks: Time of origin.
July 9	NE	ePP	18 30 07			79.5°	U.S.C.G.S. 7½°N, 82°W.
	NE	eS	37 18				N 37m 12s
	E	eSS	42 02				T_o = 18h 15m 06s
	N	eL	49 17				
	E	eL	52 17				
		F	19 39 -				
July 9	NE	eS	20 58 52				Slight: after shock of previou
	N	eL	21 11 52				
	E	eL	13 45				
		F	21 45 -				
July 13	N	i	12 19 46			141°	U.S.C.G.S.: 18½°S, 169½° E
	N	iPP	21 03				
	NE	i	22 53				T_o = 11h 58m 38s
	NE	i	28 49				
	N	iPSKS	30 48				
	E	iSS	38 46				
	E	e	48 00				
	N	eL	59 50				No definite maximum
		F	13 30 -				
July 13	NE	iSKS	17 59 58			112.7°	U.S.C.G.S.: 3°S, 128°E
	N	iS	18 01 46				
	NE	iPS	03 33				E 03m 50s
	NE	eSS	09 50				T_o = 17h 34m 26s
	NE	e	13 23				
	N	e	26 10				
	E	e	28 10				
	N	e	32 08				
	E	M	40 58	24	8		
	N	M	49 08	19	6		
		F	19 55 -				
July 15 *	E	e	06 47 -				U.S.C.G.S.: 14½°N, 92½°W
	N	e	47 55				
	E	M	54 18	20	3		Very slight
		F	07 13 -				
July 17	E	iP	16 22 06			81.9 9100Km	U.S.C.G.S.: 34½°N, 136°E
	E	i	22 25				
	E	is	32 10				T_o = 16h 09m 56s
	E	iPS	32 53				
	E	eSS	36 56				N_o N-S record: light failed.
	E	e	43 00				
	E	i	44 16				

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.
July 17 (contd)	E	eL	47 40				
	E	M	53 03	26	28		
		F	17 55 -				
July 18	E	i	19 17 03				U.S.C.G.S.: 23°S, 114½° W.
	E	e	40 -				
	E	e	45 -				Very slight, especially on N
	E	M	50 16	16	2		
		F	20 02 -				
July 21	NE	iP	12 03 50			74°	U.S.C.G.S.: 35.1°N: 118.9°W
	NE	iPP	06 41			8220 Km.	N 06m 46s
	NE	iPPP	08 21				
	N	i	09 18				
	NE	iS	13 22				N 13m 24s
	E	i	14 15				
	NE	iSS	17 58(E)				T_o = 11h 52m 17s
			18 18(N)				
	NE	i	21 49				
	NE	i	25 38				
	E	L	28 25				
	N	L	28 32				
	N	M_1	34 56	16	455		
	N	M_2	37 03	16	446		
	E	M	38 18	16	427		
		F	20 54 -				
July 23	NE	e	01 04 05				U.S.C.G.S.: 14°N, 91½° W
	N	i	15 00				
	E	e	16 54				
	N	M	21 00	18	4		
	E	M	21 16	20	8		
		F	47 -				
July 23	E	e	13 57 -				Very slight
		F	14 17 -				
July 24	N	iP	22 21 15			76°	U.S.C.G.S.: 42½°N, 145½°E
	N	e	26 58			8445 Km	
	NE	iS	30 48				N 30m 51s
	E	e	45 00				T_o = 22h 09m 38s
	N	e	49 58				
	E	M	56 08	23	4		
	N	M	58 24	21	5		
		F	23 25 -				
July 25	NE	e	19 46 15				
	N	M	52 10	17	3		
	E	M	53 10	17	3		
		F	20 39 -				
July 27	N	i	08 42 03				U.S.C.G.S.: 20½°S, 179°W
	E	iPKP	42 13				
	NE	PP	45 08				
	E	eSKS	49 48				No definite maximum
	N	i	51 25				Deep focus
	NE	i	09 02 51				
		F	56 -				
July 29	N	eS	07 24 58			72.5°	U.S.C.G.S.: 35°N, 119°W
	NE	eSS	29 50				
	N	L	38 53				
	E	L	40 16				
	E	M	07 47 27	16	15		

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.
Jly.29 (contd.)	N	M	48 33	15	8		
		F	08 23 -				
Jly.31	E	e	12 47 -				U.S.C.G.S.: $35\frac{1}{2}^\circ$N., $118\frac{1}{2}^\circ$W
	N	e	50 48				Very slight
		F	13 21 -				
Aug.6	E	e	05 32 -				Surface waves: very slight
	N	e	35 40				
		F	37 -				
Aug.6	NE	e	08 04 55				Very slight
		F	07 -				
Aug.7	NE	e	22 38 18				Surface waves: very slight
	E	M	39 11	17	3		U.S.C.G.S.: 43°N, $144\frac{1}{2}^\circ$E
		F	52 -				
Aug.16	N	ePP	14 13 14			124°	
	N	e	15 06			13,800Km	
	N	iPS	22 59				
	N	iPPS	24 10				
	N	i	26 16				
	N	eSS	30 04				
	N	L	54 -				
	E	D	58 -				
	E	M	15 04 54	20	3		
	N	M	05 04	20	3		
		F	16 15 -				
Aug.17	NE	iP	16 13 03			67.0°	U.S.C.G.S.: $30\frac{1}{2}^\circ$N, $91\frac{1}{2}^\circ$E
	E	iPP	15 38			7445 Km	
	NE	i	17 24				
	NE	iS	21 56				E 21m 53s
	NE	i	23 05				T_o = 16h 02m 23s
	NE	iSS	16 26 05				
	NE	iSSS	29 25				E 29m 22s
	E	L	33 33				
	N	L	34 33				
	NE	M	39 02	(22	567E		
				(23	546N		
		F	20 18 -				
Aug.18	E	e	13 56 55				Very slight: no trace on N-S component
	E	M	14 08 03	20	4		
		F	20 -				
Aug. 19	N	i	14 19 44				U.S.C.G.S.: 16°N, $60\frac{1}{2}^\circ$ W
	N	e	26 53				
		F	36 -				
Aug. 20	NE	iP	15 36 32			69.4°	U.S.C.G.S.: 43°N, 127°W
	E	iPPP	40 47				
	NE	iS	45 38			7710 Km	T_o = 15h 25m 34s
	N	iPS	46 16				
	NE	i	53 16				
	NE	e,i	57 33				
	E	L	16 02 33				
	N	L	02 53				
	E	M	07 25	17	44		
	N	M	08 15	17	20		
		F	17 21 -				

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.
Aug. 22	N	e	23 21 -				
	N	M	26 20	15	2		Very slight
		F	53 -				
Aug.25	N	e	04 06 -				
		F	05 12 -				? Seismic
Sep. 9	N	ipP	13 06 56			78.0°	
	N	iPP	09 44			8660Km	U.S.C.G.S.: 9°N, 84½°W
	N	i	12 09				
	N	iS	16 36				T_o = 12h 54m 55s
	N	iPS	17 14				
	N	iSS	21 47				
	N	e	27 14				
	N	eL	31 59				
	N	M_1	36 15	21	12		
	N	M_2	37 57	17	10		Early part of shock on
	E	M	40 22	19	42		E-W component not recorded,
		F	15 38 -				owing to changing of chart.
Sep.10	E	e	09 32 20				
	E	M	43 19	15	2		Very slight. Nothing readabl
		F	49 -				on N-S component.
Sep.10	E	e	19 44 -				
		F	53 -				Very slight
Sep.11	E	e	23 44 54				
	E	e	52 52				U.S.C.G.S.: 29°S, 177°W
	E	M	24 04 07	19	4		
		F	32 -				
Sep.14	E	e	10 01 25				
	NE	M	11 21	16	5E		
				17	2N		
		F	41 -				
Sep.15	E	e	11 52 53				
	E	e	12 01 20				
	E	M	05 04	17	4		
		F	22 -				
Sep.21	E	iP	02 43 34			95°	U.S.C.G.S.: 22½°S, 65°W
	E	isP	45 01				
	E	iPP	47 21			10,550Km.	
	E	isPP	48 56				
	E	iSKS	53 40				T_o = 02h 30m 44s
	E	iS	54 21				
	E	iPS	56 26				No N-S record available
	E	i	03 03 10				
	E	L	17 00				
	E	M	23 03	18	23		
		F	04 30 -				
Sep. 22	E	i	12 07 28				
	E	e	16 10				U.S.C.G.S.: 40½°N, 124°W
	E	M	21 08	18	4		
		F	40 -				

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.
Sep.27	E	i	19	26	06				
	E	e		45	17				No readable trace on N-S component
	E	M		56	20	20	3		
		F	20	05	-				
Sep.30	E	iS	13	13	08				
	N	i		13	13				
	E	i		21	55				
	NE	eL		28	08				
	NE	M_1		34	00	19	E 40) N 22)		
	E	M_2		38	36	15	25		
	N	M_2		40	34	15	11		
		F	14	28	-				

J.E.M.Geddes

Natural Philosophy Department,
Marischal College,
Aberdeen.

No. 1. # SEISMOLOGICAL BULLETIN

October - December 1952

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.

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.	17/3/52
E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	17/3/52

Date	Compt.	Phase	Time G.M.T. h.	m.	s.	Period sec.	Ampl. μ	Δ° km.	Remarks: Time of origin.
Oct. 3	E	iP	07	49	01			79.6° 8845Km	U.S.C.G.S. 6½°N, 83°W
	N	iPP		53	02				
	E	iS		59	03				
	E	i	08	02	05				
	E	e		07	13				
		F		23	-				
Oct. 4	E	i	04	35	23				Slight: nothing readable on N-S component.
	E	e		37	25				
		F		46	-				
Oct. 5	NE	iS	11	04	31				
	NE	iPS		04	55			24.8° 2755Km	
	E	iSS		05	32				
	E	i		07	08				
	NE	e		09	08				
	E	M		09	53	17	6		
	N	M		12	59	13	3		
		F		38	-				
Oct. 5	E	i	22	35	10				U.S.C.G.S. 37°N, 93 E Slight.
	N	e		37	25				
	E	M		44	56	15	5		
		F		57					
Oct. 7	E	e	18	36	26				No trace on N-S Component
		F		50					
Oct. 10	NE	e	12	02	-				Very slight
		F		22	-				
Oct. 10	E	e	16	35	26				
	E	e	17	04	16				
	E	e		10	16				
	N	e		12	10				
	E	M		21	06	20	4		
		F		48	-				
Oct. 10	E	iS	19	04	58			55.5° 6160Km	U.S.C.G.S. 30½°N, 69°E
	E	ePs		05	36				
	E	e		09	30				
	N	iSSS		10	00				T_o = 18h 47m 37s
	E	L		19	49				
	N	L		20	15				
	E	M		24	24	19	27		
	N	M		24	36	17	20		
		F	20	24	-				

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.
Oct. 11	E	e	01	10	15				
	N	e		20	05				
	E	M		30	15	20	6		
		F	02	25	-				
Oct. 13	E	e	16	56	05				
	N	e		57	05				
	E	M		58	15	20	6		
	N	M		57	20	17	4		
		F		?					Building shaking
Oct. 15	E	eL	00	37	-				
		F		52	-				
Oct. 15	E	e	03	41	-				Very slight
		F		47	-				
Oct. 18	N	e	05	43	30				U.S.C.G.S. 16°S, 168°E
	N	e		45	16				
	N	e		58	20				
	E	i	06	02	55				
	N	e		10	35				
	E	e		38	10				
	N	L		41	55				
	E	M		44	30	19	4		
	N	M		48	10	19	5		
		F	07	33	-				
Oct. 18	NE	i	12	14	05			55.2° 6135Km	U.S.C.G.S. 13°N, 46°W
	E	iS		14	54				
	N	i		16	40				T_o = 11h 57m 37s.
	NE	i, eSSS		20	32				
	E	M		28	20	15	4		No definite maximum on N-S
		F	13	00	-				
Oct. 20	NE	e	01	25 -40					Obscured by shaking of building.
Oct. 22	NE	e	17	11	-				
	E	M		25	17	15	5		
		F		35	-				
Oct. 26	E	i	16	12	55				
	NE	i		14	45				
	NE	e		33	15				Foreshock of following
	E	M		40	28	18	13		
	N	M		41	06	20	6		
		F	17	16	-				
Oct. 26	NE	iS	18	24	08			79.5° 6840Km	U.S.C.G.S. 39°N, 143°E
	E	iSS		29	15				
	NE	e, iSSS		32	15				T = 18h 02m 00s
	E	e		39	25				
	E	eL		45	-				
	N	eL		46	-				
	N	M		49	04	19	8		
	E	M		49	33	20	25		
		F	19	34	-				

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.
Oct. 26	E	e	19	41	25				U.S.C.G.S. $38\frac{1}{2}^\circ$N, $143\frac{1}{2}^\circ$E
	E	i		45	41				
	E	i		58	26				
	NE	eL	20	03	25				
	E	M		07	00	20	6		
	N	M		08	20	20	6		
		F		36					
Oct. 27	E	iS	03	39	25				U.S.C.G.S. After shock of 26th October at 18h 02m.
	N	ePS		40	05			79.5°	
	E	iSS		44	35				T_o = 03h 17m 12s.
	N	eL		52	15				
	E	eL		55	25				
	E	M		04	37	20	16		
	N	M		06	15	19	8		
		F		39	-				
Oct. 28	E	e	07	11	15				
	E	M		18	30	18	9		Obscured by microseisms and shaking of building
		F		?					
Oct. 31	E	eL	17	15	15				
	N	e		22	15				
	N	M		24	30	19	5		
	E	M		25	06	20	14		
		F		57	-				
Nov. 1	N	e	00	17	15				
	E	i		19	15				
	NE	M		30	10	E 19	8		
						N 22	8		
		F	01	06	-				
Nov. 4	NE	iP	17	09	38			69.5°	U.S.C.G.S. $52\frac{1}{2}^\circ$N, 159°E.
	E	i		10	00			7720Km	
	NE	iPP		12	20				
	NE	iPPP		13	57				T_o = 16h 58.5m.
	NE	iS		18	45				
	N	L		32	55				
	E	M		48	10	20	1150		
	N	M		56	42	17	860		
		F	Lost in following shocks.						
	A series of aftershocks followed the main shock between 20h 18m and 25h 30m. These overlapped one another.								
Nov. 4	NE	M	21	38	35	20	33		
Nov. 5	NE	i	02	40	25				
	N	iS		41	30				
	N	e		58	20				
	E	eL	03	01	25				
	N	M		09	25	18	4		
	E	M		12	30	15	3		
		F		20	-				
Nov. 5	N	i	03	40	18				
	NE	e,i		50	20				
	E	e	04	14	15				
	E	M		17	15	20	5		
	N	M		21	10	15	4		
		F		47	-				

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.
Nov. 7	N	e	23 33 -				
		F	47 -				
Nov. 8	E	e	00 36 20				U.S.C.G.S. 31°S, 177°W.?
		F	54 -				
Nov. 8	NE	e	17 49 15				
		F	58 -				
Nov. 8	NE	i	19 54 22				
	NE	iS	55 07				
	E	iSSS	20 03 58				
	N	e	09 56				
	N	eL	13 06				
	E	eL	14 00				
	E	M	23 00	18	9		
	N	M	25 09	15	6		
		F	21 23 -				
Nov. 9	NE	i,e	00 34 10				
	N	M	44 36	13	1		
		F	merged in succeeding shock				
Nov. 9	E	e	01 01 56				
	N	e	04 26				
	E	M	13 02	17	4		
	N	M	13 46	12	2		
		F	39 -				
Nov. 9	E	e	01 55 -				
	N	e	56 -				
	N	M	02 07 16	15	2		
	E	M	09 26	15	1		
		F	44 -				
Nov. 9	E	e	05 18 35				
	N	i	19 55				
	E	M	26 30	15	2		
		F	Merges in next shock.				
Nov. 9	NE	e	05 42 36				
	N	M	51 15	16	2		
	E	M	53 34	18	4		
		F	Merges in next shock.				
Nov. 9	NE	e	06 16 25				
	E	e	28 16				
	NE	e	40 10				
	E	M	49 13	17	2		
		F	58 -				
Nov. 9	N	e	15 58 45				
	NE	e	06 15				
Nov. 9	E	e	21 27 15				
		F	34 -				
Nov. 10	N	e	01 11 -				
		F	46 -				
Nov. 10	N	e	20 47 10				
	N	M	17 24	12	1		
		F	39 -				

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.
Nov. 13	N	iS	08	19	20			71°	U.S.C.G.S. 50½°N, 157E.
	NE	i		20	08			7890Km	T_o = 07h 58m 46s.
	NE	i, eSS		23	58				
	NE	e		29	28				
	N	eL	08	33	50				
	E	eL		37	26				
	N	M		48	15	18	5		
	E	M		49	34	16	7		
		F	09	18	-				
Nov. 13	E	e	23	11	16				
	N	e		15	05				
	E	M		15	18	16	3		
		F		30	-				
Nov. 18	N	e	08	54	-				
	N	M		59	06	11	1		
		F	09	18	-				
Nov. 20	N	i	16	01	15				U.S.C.G.S. 12½°N, 88°W.
	E	M		27	15	16	9		Maximum on N-S doubtful.
		F	17	20	-				
Nov. 22	E	iS	08	07	50			74°	U.S.C.G.S. 35.8°N, 121.1°W.
	E	i		09	46				No measureable effect on
	E	eSSS		15	38				N-S component.
	E	i		19	26				T_o = 08h 46m 42s.
	E	eL		23	35				
	E	M		31	29	18	9		
		F		59	-				
Nov. 27	NE	i	07	40	38				U.S.C.G.S. 37°N, 70°E
		F		57	-				
Nov. 28	NE	iS	08	26	15				U.S.C.G.S. 52°N, 160°E.
	E	e		38	27				
	N	eL		44	16				
	NE	M		52	17	17	2		
		F	Occurred during changing of record.						
Nov. 29	E	i	08	35	38			70°	U.S.C.G.S. 53°W, 160°E
	E	i		39	40				N-S missing through
	E	iS		42	54				failure of light source.
	E	eSSS		50	27				
	E	M		56	00	30	69		
	E	L	09	00	35				
	E	M		11	03	15	34		
		F	10	38	-				
Nov. 29/30	NE	iP	23	57	05			65.5°	U.S.C.G.S. :56°N, 155°W
	NE	iPP		59	18			7280Km	
	NE	i	00	01	28				N 01m 24s.
	NE	iS		05	48				T_o = 23h 46m 30s
	E	iSS		10	31				
	E	iSSS		12	25				
	NE	i		16	45				
	E	L		20	38				
	N	L		21	38				
	NE	M		27	49	20	E 69) N 90)		
		F	02	42	-				
Nov. 30	N	i	19	49	04				
	E	e	20	08	20				

SMOLOGICAL 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.
Nov. 30 (contd.)	N	M	16 20	17	3		
	E	M	16 24	18	3		
		F	45 -				
Dec. 4	N	i	04 11 44			71° 7890Km	U.S.C.G.S. : 52°N, 178°E
	E	iS	11 52				T_o = 03h 51.5m
	NE	iPS	12 51				
	N	i	13 19				
	N	iSS	17 16				
		F	43 -				
Dec. 6	N	i	11 01 53			131.5° 14610Km	U.S.C.G.S. : 8°S, 157°E
	N	i	02 41				T_o = 10h 41.5m
	N	iPP	02 58				
	NE	iPPP	05 48				
	NE	iSKKS	09 33				
	N	i	12 32				
	NE	i, ePPS	14 50				
	NE	iSS	19 50				
	NE	iSSS	25 35				
	E	L	33 55				
	N	L	11 43 35				
	N	M	53 53	22	61		
	E	M_1	53 57	16	35		
	E	M_2	12 05 31	19	49		
		F	13 42 -				
Dec. 7	N	iP	01 01 37			71.0° 7890Km	U.S.C.G.S. : 53°N, 172½°E
	N	i	03 15				
	NE	iS	10 52				T_o = 00h 50.4m
	E	i	14 05				
	N	iSS	15 49				
	NE	eSSS	19 15				
	E	M	31 55	18	16		
	N	M	34 51	17	10		
		F	02 37 -				
Dec. 7	N	e	17 15 45				
	E	e	20 45				
	E	M	24 25	15	1		
		F	41 -				
Dec. 8	N	i	15 48 15				
	E	M	52 15	20	11		U.S.C.G.S. : 23°N 99½°E
	N	M	52 37	22	6		
		F	16 20 -				
Dec. 10	N	eP	06 01 26			14.9° 1655Km	U.S.C.G.S. : 71°N; 7°W
	N	i	03 12				
	E	iS	04 20				T_o = 05h 57.9m
	N	iSS	04 58				
	E	i	05 12				
	N	i	07 47				
	E	i	07 57				
	E	M	10 02	11	19		
	N	M	10 07	13	28		
		F	07 13 -				

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.
Dec. 17	N	iP	23	10	00				U.S.C.G.S. : 34½°N, 24°E
	N	iPP		10	35			27.9°	
	N	iPPP		10	52				T_o = 23h 04.1m
	N	iS		14	49			3100Km	
	N	i		15	00				Obscured by microseisms
	N	iSS		15	59				E - W record missing
	N	L		19	00				
	N	M		21	45	20	74		
		F		57	-				
Dec. 22	N	e	22	41	49				U.S.C.G.S.: 54°N, 160½°E
	N	iS		44	48				Very slight effect on E-W
	N	i		46	10				and obscured by microseisms
	N	iSS		48	11				
	E	eL	23	02	37				
	N	eL		03	49				
	N	M		06	45	19	5		
		F		27	-				
Dec. 24	N	ePP	19	00	38			126°	U.S.C.G.S. : 5½°S, 151½°E
	NE	iPS		10	33			14,000Km	
	NE	ePPS		12	58				
	E	eSS		17	28				T_o = 18h 39.7m
	NE	eSSS		22	33				
	N	eL		42	18				
	N	M		47	22	22	37		
	E	M_1		50	18	20	27		
	E	M_2		56	48	19	43		
		F	21	05	-				
Dec. 25	E	e	03	39	40				U.S.C.G.S. :
	N	e		43	50				After shock of preceding
	E	M		45	54	20	3		Very slight on N-S component
		F		53	-				
Dec. 25	E	e	04	30	00				No trace on N-S component
	E	M		35	13	20	3		
		F		46	-				
	NE	e	22	51	40				
	N	L		55	43				
	E	L		57	18				
	N	M		59	12	20	8		
	E	M	23	02	24	16	18		
		F		44	-				
Dec. 28	N	e	15	28	40				
	E	e		29	50				
	N	e		47	40				
	E	e		49	00				
	NE	M_1		57	00	(N 35	36		
						(E 28	14		
	E	M_2	16	06	40	18	22		
	N	M_2		09	30	17	12		
		F		37	-				
Dec. 29	N	e	02	57	30				Very slight
	E	e	03	01	40				U.S.C.G.S: 49°N, 158°E.
		F		08	-				
Dec. 31	E	e	17	30	-				
	N	e		31	-				
	N	e		34	55				
	N	M		38	03	15	2		
	E	M		41	55	15	3		
		F		45	-				

Natural Philosophy Department,
Marischal College,
Aberdeen.

A.E.M.Geddes

SEISMOLOGICAL BULLETIN

No.1. January - March 1953

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.

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.	17/3/52
E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	17/3/52

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks: Time of origin.
Jan. 5	N	i	07 59 52			70.8° 7865Km	U.S.C.G.S: 54°N, 170°E
	E	iP	59 56				
	E	i	08 01 46				T_o = 07h 48m 44s
	E	iPP	02 39				
	E	iPPP	04 09				
	NE	iS	08 44				
	N	iPS	09 18				
	NE	iSS	13 13				
	N	iSSS	15 57				
	N	L	21 27				
	E	L	27 27				
	E	M	34 59	16	67		
	N	M	38 13	19	69		
		F merged in succeeding shock					
Jan. 5	N	iP	10 17 57			72.5° 8055Km	U.S.C.G.S: 49°N, 156°E.
	E	i	19 42				T_o = 10h 06.6m
	NE	e, iPP	20 47				N 20m 39s
	E	iPPP	22 11				
	NE	iS	27 12				N 27m 07s
	N	iPS	27 59				
	N	L	40 54				
	E	L	46 27				
	N	M	49 47	20	27		
	E	M	55 54	18	51		
		F	12 10 -				
Jan. 7	E	e	00 12 40				
	N	e	12 50				
		F	23 -				
Jan. 7	NE	e	01 31 -				U.S.C.G.S: 42°N, 20°E
	E	M	31 59	13	3		
	N	M	35 00	10	5		
		F	37 -				
Jan. 7	E	e	06 21 -				U.S.C.G.S: 53½°N, 161°E
	N	e	29 -				
		F	43 -				Slight effect
Jan. 7	E	e	14 40 53				U.S.C.G.S: 5½°S, 150½°E
	E	i	45 54				
	E	e	15 05 30				No N-S record available
	E	M_1	13 47	20	5		
	E	M_2	20 22	20	10		
		F	16 18 -				

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. 11	E	iP	23	03	00			54.5° 6055Km	U.S.C.G.S: 65°N, 133°W
	E	i		04	10				T_o = 22h 53.6m
	E	iPP		05	09				No N-S record available
	E	iS		10	16				
	E	i		12	22				
	E	iSS		13	51				
	E	iSSS		16	06				
	E	L		18	16				
	E	M		24	07	18	22		
		F	24	23	-				
Jan. 12	N	ePP	17	37	47			69.5° 7720Km	U.S.C.G.S: 49½°N, 156°E
	N	eS		43	27				T_o = 17h 23.6m
	NE	PS		44	20				Obscured by shaking of building.
	E	eSSS		51	17				
	N	eL		56	45				
	E	e	18	01	12				
	N	M		06	13	20	19		
	E	M		08	45	20	16		
		F	19	03	-				
Jan. 20	E	e	18	19	50				U.S.C.G.S: 1½°N, 126°E.
	E	eL		24	10				
	N	eL		25	00				
	E	M		32	10	29	12		
	N	M		33	04	20	5		
		F		49	-				
Jan. 21	E	e	02	27	-				U.S.C.G.S: 50°N, 156°E. No N-S effect
		F		37	-				
Jan. 25	E	i	20	25	58				U.S.C.G.S: 19°N, 73½°W No effect on N-S
		F		40	-				
Jan. 27	E	i	03	57	30				U.S.C.G.S: 4½°S, 153°E. Nothing readable on N-S Obscured by microseisms.
	E	i	04	02	18				
	E	i		02	45				
		F		12	-				
Feb. 5	E	i	22	57	27				
	N	i		58	59				
	E	M	23	01	28	16	4		
		F		09	-				
Feb. 6	NE	iP	13	24	45			79.0° 8780Km	U.S.C.G.S: 42½°N, 143½°E
	NE	i		25	17				T_o = 13h 12m 44s
	N	ePP		27	16				
	N	ePPP		29	05				
	NE	iS		34	44				
	NE	i		35	00				
	N	eL		48	12				
	E	eL		48	52				
	E	M		59	00	18	20		
	N	M	14	00	03	23	14		
		F		50	-				

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. 7	NE	e	18	44	05				U.S.C.G.S: 49°N, 156°E.
	N	iS		45	11				
	E	i		52	07				
	E	eL	19	00	10				
	E	M		14	00	19	5		
	N	M		14	38	15	3		
		F		49	-				
Feb. 7	E	eP	22	37	07			28.4°	B.C.I.S: 35°N, 24½°E
	E	iPP		37	56			3155Km	
	NE	iS		42	01				T_o = 22h 31.0m
	E	i		48	05				
	N	i		48	10				
	E	M		50	29	15	3		
	N	M		50	58	12	2		
		F	23	05	-				
Feb. 12	E	iP	08	23	42				U.S.C.G.S: 35°N, 54½°E
	NE	iPP		25	20			43.4°	T = 08h 15m 47s
	NE	iS		30	04			4820Km	N°30m 17s
	NE	iSS		33	02				N 33m 20s
	NE	L		37	06				Persian Earthquake
	N	M		44	18	24	43		
	E	M		47	40	17	66		
		F	09	44	-				
Feb. 14	N	e	22	37	-				Very slight
		F		54	-				U.S.C.G.S: 18½°N, 146°E
Feb. 19	N	e	15	28	31				U.S.C.G.S: 0°, 18°W
	NE	iS		35	50				
	E	i		37	36				
	NE	iSSS		41	35				N 41m 30s
	E	L		52	00				
	N	L		54	37				
	N	M		58	49	11	13		
	E	M		59	06	16	35		
		F	16	41	-				
Feb. 23	E	i	01	22	15				No trace on N-S component
		F		32	-				U.S.C.G.S: 29½°, 81°E
Feb. 25	E	i	21	35	33				U.S.C.G.S: 56°N, 156½°W
	N	i		35	39				Obscured by microseisms
	E	i		37	22				and shaking of building
	NE	e		48	10				
		F		51	-				
Feb. 26	N	iSKP	12	05	54				U.S.C.G.S: 11°S, 164½°E
	E	iPPP		06	49				
	N	i		08	00				
	E	iSS		22	07				
	N	i		22	29				
	E	i		24	52				
	NE	e		37	20				
	E	L		42	14				
	N	L		46	10				
	E	M	12	49	20	23	36		
	N	M_1		49	42	23	21		
	N	M_2		57	22	20	27		
		F	14	15	-				

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	i	12 04 24				U.S.C.G.S: 20°S, 169°E
	N	e	09 14				
	NE	e,i	13 54				
	N	e	36 34				
	E	i	37 39				
	E	M	13 19 19	18	6		
		F	55 -				
Mar. 5	E	i	21 20 02				U.S.C.G.S: 51°N, 158°E
	E	iS	22 01				
	E	i	30 44				No N-S record available
	E	e	22 00 35				
	E	M	10 25	17	4		
		F	46 -				
Mar. 10	E	e	22 31 50				
	E	M	41 36	25	9		Very slight
	N	e	46 24				
		F	23 11 -				
Mar. 14	N	e	17 49 45				
	E	e	50 45				
	E	M	18 01 00	23	11		
	E	M	02 32	20	5		
		F	24 -				
Mar. 18	NE	iP	19 11 42			26.4°	E 11m 45s.
	N	iPPP	12 30			2935Km	
	NE	i	14 28				T_o = 19h 06m 12s
	NE	iS	16 20				
	E	M	26 00	12	770		
	N	M	26 20	13	590		
		F	23 00 -				May be several aftershocks.
Mar. 19	NE	iP	08 38 03			60.5°	
	NE	iS	46 10			6720°	
	E	iPPS	46 49				
	N	i	47 07				T_o = 08h 28m 06s.
	N	i	48 35				
	E	i	50 10				
	N	i	50 28				
	NE	i	53 11				
	E	i	56 52				No definite maximum phase. Deep focus.
		F	11 35 -				
Mar. 25	N	e	06 35 -				
	E	e	36 -				
	N	M	36 22	20	3		
		F	45 -				

Natural Philosophy Department,
Marischal College,
Aberdeen.

A.E.M.Geddes

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

April - June, 1953

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		Date from which constants apply
N	1 lb.	10 sec.	20 : 1	150	18.1 mm.	17/3/52
E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	17/3/52

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks: Time of origin.
April 4	E	i	06 29 34				
	N	e	38 03				
	E	e	39 58				
	N	M	45 08	17	3		
	E	M	45 33	17	6		
		F	07 05 -				
* 5	N	eL	11 00 54				
	N	M	11 14	18	4		
		F	16 -				
6	N	e	00 58 29			119°	U.S.C.G.S.: 7°S, 132°E
	N	iS	01 04 09			13,200Km	
	N	iPS	05 59				T_o = 00h 36m 11s
	N	iSS	12 44				
	N	e	37 50				No E-W record available
	N	M	47 14	20	3		
		F	02 04 -				
8	NE	e	00 55 00				
	NE	M	57 10	25	4		
		F	01 09 -				
14	NE	iP	13 41 07			85.5°	U.S.C.G.S: $7\frac{1}{2}$° S, $71\frac{1}{2}$° W.
	E	epP	43 12			9500 Km	
	E	isP	44 08				T_o = 13h 29.0m
	N	isPP	47 37				
	E	iSKS	50 44				Apparently deep focus
	E	eS	51 22				
	N	iPS	52 12				
	NE	i	55 33				Very pronounced on E-W,
	E	M	14 04 10	18	7		slight on N-S
		F	30 -				
23	N	ePP	16 44 57			124°	U.S.C.G.S.: 4°S, 154°E
	NE	i,e	45 20			13,780 Km	
	E	iSKS	50 11				T_o = 16h 24m 34s
	NE	iPS	55 20				
	E	iSS	17 01 56				N 07m 00s
	E	iSSS	06 50				

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 23 (contd)	E	L	17 22 55				
	N	L	23 45				
	E	M	28 14	26	167		
	N	M	37 12	24	120		
		F	21 - -				
24	N	iP	02 14 27			19.8° 2200Km	U.S.C.G.S.: 76½°N, 6°E
	N	i	15 26				
	NE	iS	18 16				N 18m 11s
	N	e	19 22				
	N	M	20 32	19	4		T_o = 02h 09.9m
	E	M	21 31	19	3		
		F	42 -				
30	N	iPKP	06 46 25			144° 16,000Km	U.S.C.G.S.: 20½°S, 170°E
	N	iPP	49 30				
	E	iPPP	52 37				T_o = 06h 26.8m
	E	iSKS	53 23				
	NE	iSKKS	56 26				
	N	eSSS	07 13 46				
	N	eL	36 45				
	E	eL	39 40				
	E	M	45 54	30	15		
	N	M	47 33	20	6		
		F	08 41 -				
May 2	E	e	05 57 35				Very slight: no trace on N-S component.
		F	06 05 -				
2	N	e	18 45 38				
	E	i	48 04				
	N	M	55 28	20	6		
		F	merged in succeeding shock				
2	E	e	19 15 30				
	N	e	17 30				
	N	M	26 50	20	6		
	E	M	27 32	17	4		
		F	20 13 -				
6	N	iPP	17 35 55			112° 12,450Km	U.S.C.G.S.: 36½°S, 73°W
	N	ePPP	38 26				
	N	eS	43 52				T_o = 17h 16m 45s
	N	ePS	45 28				
	N	eSS	51 44				No E-W component record
	N	eSSS	55 38				
	N	eL	18 08 30				
	N	M_1	17 00	23	5		
	N	M_2	21 42	20	6		
		F	19 06 -				
11	E	iPP	10 40 03				U.S.C.G.S.: 169°E, 21½°S.
	E	i	49 23				
	E	i	53 42				No trace on N-S components.
	E	e	58 18				
	E	e	11 07 43				
	E	eL	30 30				
	E	M	49 56	19	2		
	E	M	12 23 52	17	2		By path > 180°.
		F	38 -				

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.
May 18	E	i	08 32 30				U.S.C.G.S.: 28½°N, 44°W
	E	M	34 50	19	2		
		F	52 -				
19	E	i	03 25 27			71°	U.S.C.G.S.: 51°N, 159°E
	E	iS	31 45			7890 Km	
	E	iPS	32 25				
	E	i	32 45				No effect on N-S
	E	eSSS	39 35				
	E	L	43 30				
	E	M_1	49 45	19	4		
	E	M_2	04 01 50	14	6		
		F	52 -				
24	E	e	01 46 41				
	E	i	47 32				
	E	i	59 30				
	E	e	02 21 26				
	E	M	28 14	20	5		
		F	55 -				
31	E	iP	20 09 03			61.0°	U.S.C.G.S.: 20°N, 70½°W
	E	i	10 30			6780 Km	T_o = 19h 58.8m
	NE	iS	17 20				
	E	iSS	21 20				Very slight on N-S
	NE	L	27 30				
	E	M	31 45	20	38		
		F	21 49 -				
June 6	E	iS	12 01 09				U.S.C.G.S.: 52°N, 159½°E
	E	i	21 30				
	E	M	29 44	17	4		
		F	37 -				
9	E	e	02 25 -				U.S.C.G.S.: 53°N, 160°E
		F	35 -				
13	E	iP	18 44 27			24.4°	B.C.I.S.: 38¼°N, 22¾°E
	E	iS	48 45			2710Km	T_o = 18h 39.1m
	E	i	54 14				
	E	i	56 54				
		F	19 03 -				
15	NE	iP	17 57 55				
	E	i	18 02 17			64.8°	U.S.C.G.S.: 56½°N, 154°W
	NE	iS	06 36			7200 Km	
	N	iPS	07 04				T_o = 17h 47m 24s
	NE	iSSS	13 50				
	N	eL	23 10				
	E	eL	23 38				
	N	M	27 12	18	3		
	E	M	28 30	20	25		
		F	19 52 -				

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.
June 16	E	e	10 09 20			92°	
	E	iSKS	16 33				
	E	iSKKS	17 01				
	E	i	19 05				
	E	eSS	22 27				
	E	eL	10 39 10				
	E	M	47 28	20	3		
		F	11 11 -				
16	E	i	20 08 04				Very slight
	E	i	11 05				
	E	e	27 -				
		F	36 -				
18	E	iP	05 49 20			24.2°	B.C.I.S.: 41¾°N, 27¾°E
	E	eS	53 40			2890 Km	Turkish Earthquake
	E	i	57 20				T_o = 05h 44.0m
	E	M	06 03 07	13	2		
		F	12 -				
18	E	e	10 39 40				
	E	e	43 35				
	E	e	11 14 10				
	E	M	25 20	22	3		
		F	12 02 -				
23	E	e	14 40 10				Very slight
		F	45 -				
	NE	e	11 03 33			113.4°	U.S.C.G.S.: 8½°S, 123½°E
* 25	NE	iPP	04 53			12600 Km	
	NE	iPPP	07 22				T_o = 10h 45.5m
	E	iSKS	10 55				
	N	eS	13 00				
	E	i	15 00				
	E	i	19 17				
	N	eSS	21 00				
	N	eL	40 10				
	E	eL	43 10				
	N	M	49 00	25	4		
	E	M	50 25	22	5		
	E	M	59 17	20	7		
		F	13 09 -				
26	E	i	06 02 15			113°	U.S.C.G.S.: 8°S, 124°E
	E	iPP	02 40				
	NE	i	04 00				T_o = 05h 42.7m
	E	ePS	11 39				
	NE	e, iPPS	12 22				
	NE	e	19 -				
	E	eSSS	22 15				
	E	eL	41 05				
	N	eL	43 05				
	E	M	51 12	22	5		
	N	M	56 28	20	3		
		F	07 27 -				

A. E. M. Geddes

Natural Philosophy Department,
Marischal College,
Aberdeen.

No. 1.

SEISMOLOGICAL BULLETIN

KING'S COLLEGE OBSERVATORY, ABERDEEN

July - September, 1953

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	Date from which constants apply
N	1 lb.	10 sec.	20 : 1	150	15/7/53
E	1 lb.	10 sec.	20 : 1	150	15/7/53

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ km.	Remarks: Time of origin.
July							
1	E	eS	03 21 05			71°	U.S.C.G.S.: 50½°N, 157°E
	E	e	32 20			7890 Km	
	E	eL	41 10				No N-S record
	E	M	49 15	16	2		
		F	04 12 -				
2	NE	iPKP	07 16 13			141°	U.S.C.G.S.: 18½°S, 169°E
	NE	ipPKP	17 20			15670 Km	N 17m 17s
	E	iPP	19 12				
	N	iSKP	19 43				T_o = 06h 56m 48s
	NE	i	21 20				
	NE	eSS	37 16				
	E	eSSS	42 50				
	E	e	56 30				
	E	M	08 10 50	27	5		
		F	09 - -				
9	E	e	19 30 10				Very slight
		F	42 -				
9	E	iS	21 37 26			38.9°	U.S.C.G.S.: 30°N, 42½°W
	E	i	38 58			4320 Km	
	E	eL	43 05				T_o = 21h 23.9m
	E	M	53 13	15	2		
		F	22 07 -				
10	E	i	15 37 07				Very slight
		F	43 -				
12	E	ePP	07 03 -			117°	U.S.C.G.S.: 2°S, 139½°E
	E	e	07 00			13000 Km	
	E	iPS	12 40				T_o = 06h 43.2m
	E	eL	41 -				
	E	M_1	46 30	20	4		
	E	M_2	55 30	18	4		
		F	08 20 -				
20	NE	iPKP	08 28 11			144°	U.S.C.G.S.: 21°S, 177°W
	N	iSKP	31 45			16000 Km	
	N	iSKKS	37 55				T_o = 08h 08m 30s
	N	iPSKS	41 12				
	N	i	49 20				
	E	iSS	50 00				
		M lost in changing of charts					
		F	10 45 -				

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.
July 21	E	i	18 08 24				U.S.C.G.S.: 27½°N, 128°E
	N	e	09 20				
	E	M	18 46	22	7		
	N	M	19 30	17	6		
		F	37 -				
22	NE	iP	05 22 30			70°	U.S.C.G.S.: 51°N, 157°E
	E	iPP	25 10			7780 Km	
	N	e	27 10				T_o = 05h 11.1m
	N	iS	31 39				
	NE	e,i	31 58				
	E	i	40 37				
	N	L	46 28				
	E	M_1	52 32	22	7		
	N	M_1	53 22	18	7		
	N	M_2	06 00 35	20	14		
	E	M_2	01 07	20	14		
		F	07 10 -				
22	NE	i	15 20 15				
	E	M	29 42	13	4		
	N	M	30 07	13	4		
		F	44 -				
22	NE	eP	18 12 30			43.6°	U.S.C.G.S.: 26½°N, 44½°W
	NE	i,eS	19 00			4845 Km	
	NE	e	24 10				T_o = 18h 04.4m
	E	M	27 21	17	3		
	N	M	27 27	15	2		
		F	40 -				
23	N	e	19 06 20				
	NE	e	09 10				Very slight
	N	i	15 10				
	E	M	16 24	14	1		
		F	35 -				
26	N	iPP	17 10 47			100°	U.S.C.G.S.: 17½°N, 145°E
	N	i	13 15			11110 Km	
	NE	iSKS	17 00				T_o = 16h 53.5m
	NE	eSS	25 10				
	E	M	42 18	25	4		Deep focus
	N	M	54 22	20	3		
		F	18 18 -				
29	NE	i	13 51 00				
	N	e	14 06 30				
	N	M	14 10	16	1		
		F	48 -				
29	E	e	18 37 28				U.S.C.G.S.: 13°N, 90½°W
	N	e	39 25				
	E	eL	50 10				
	N	eL	52 00				
	E	M	19 08 30	16	3		
	N	M	10 35	13	1		
		F	48 -				

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.
July 30	N	e	00 29 05				U.S.C.G.S.: 16°S, 173°W
*	E	e	30 00				
	N	M	36 10	20	3		
		F	50 -				
31	N	i	00 08 19				U.S.C.G.S.: 19°N, 145°E
	N	i	10 02				
	N	e	12 17				
	E	e	32 00				
		F	55 -				
Aug. 1	NE	e	04 20 -				
		F	29 -				
2	E	e	18 43 20				No effect on N-S
		F	57 -				
6	E	e	19 24 20				U.S.C.G.S.: 45°N, 80°E
	N	i	25 14				
	E	M	29 14	16	4		
	N	M	29 25	15	3		
		F	40 -				
6	NE	e	21 32 -				
		F	37 -				
9	NE	iP	07 46 27			23.9°	U.S.C.G.S.: 38½°N, 21°E
	NE	iS	50 40			2655 Km	
	N	i	53 30				T_o = 07h 41m 15s
	E	i	54 10				
	NE	L	55 39				Greek Islands' shock
	E	M	56 00	16	53		
	N	M	57 33	14	43		
		F	Lost during changing of chart				
11	N	iP	03 37 38			24.5°	
	N	i	37 59			2720 Km	
	N	iS	41 57				T_o = 03h 32m 19s
	N	iSS	43 00				
	N	L	45 23				No E-W component available
	N	M	48 34	14	133		
		F	05 29 -				
11	E	e	12 58 -				
		F	13 08 -				
12	N	e	06 15 12				
	N	e	22 40				
	N	M	25 12	20	5		
		F	39 -				
12	NE	iP	09 29 11			24.0°	
	NE	iPPP	29 56			2665 Km	
	NE	iS	33 25				T_o = 09h 23m 58s
	N	L	36 30				
	E	L	36 50				
	E	M	39 56	16	491		
	N	M	40 28	16	509		Several minor shocks before 12h
		F	12 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.
Aug.							
* 12	NE	iP	12 10 41			24.5°	U.S.C.G.S.: 38°N, 21°E
	NE	iS	15 01			2720 Km	
	NE	L	19 30				T_o = 12h 05m 23s
	N	M	21 12	17	24		
	E	M	22 39	20	41		
		F	13 03 -				
12	E	e	13 51 30				
	NE	e	53 40				
	E	M	57 22	20	3		
		F	14 06 -				
12	NE	iP	14 14 01			24.5°	U.S.C.G.S.: 38°N, 21°E
	NE	iS	18 22			2720 Km	T_o = 14h 08m 43s
	N	L	22 52				
	E	L	23 40				
	N	M	25 02	14	14		
	E	M	27 29	13	10		
		F	47 -				
12	N	e	16 18 20				
	NE	i, e	22 44				
		F	36 -				
12	N	e	17 27 42				U.S.C.G.S.: 22°S, 175°W
	N	eSSS	43 22				
	N	L	18 10 34				
	E	L	11 20				
	N	M	20 23	18	4		
	E	M	22 30	19	5		
		F	19 21 -				
13	E	e	03 35 10				
	N	e	36 20				
		F	50 -				
13	N	iPKP	09 42 50			144°	U.S.C.G.S.: 21 1/2°S, 170°E
	E	i	44 00			16000 Km	
	N	iSKP	45 47				T_o = 09h 23m 23s
	E	iPP	46 06				
	N	iSKKS	52 48				
	NE	e	10 05 20				
	E	M	34 42	15	2		
		F	11 41 -				
* 23	N	i	07 29 06			58.8°	U.S.C.G.S.: 1°S, 14°W
	N	eS	36 20			6540 Km	
	N	iSS	40 14				T_o = 07h 18.2m
	N	eL	47 04				No E-W record available
	N	M	56 22	12	2		
		F lost during changing of chart					
25	N	i	02 34 34				U.S.C.G.S.: 5°S, 152°E
	E	e	35 15				
	N	e	42 50				
	E	e	53 25				
	E	e	03 06 24				
	N	e	08 55				
	N	M	14 32	22	5		
	E	M	14 34	23	4		
		F	04 17 -				

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.
Aug. 27	N	e	21 39 10				
	E	e	43 25				
		F	22 - -				
27	N	e	23 39 -				
	N	e	24 09 -				
	E	e	35 -				
	N	M	36 30	20	3		
		F	46 -				
29	NE	e,i	02 17 30				
	NE	i	24 18				
	NE	M	34 06	20	5		
		F	48 -				
29	N	iP	14 13 51			21.8°	
	NE	iS	17 45			2420 Km	
	NE	L	20 05				T_o = 14h 08m 58s
	N	M	23 12	14	7		
	E	M	23 48	10	4		
		F	50 -				
4	N	iP	07 34 22			72.0°	U.S.C.G.S.: 50°N, 156½°E
	NE	iPP	37 02			8000 Km	
	N	iPPP	38 45				T_o = 07h 23m 07s
	N	iS	43 35				E 43m 59s
	N	i	44 22				
	N	i	51 50				
	E	i	52 25				
	N	L	58 00				
	E	L	08 00 -				
	NE	M	08 52	E 16	15		
				N 20	19		
		F	52 -				
4	NE	e	15 02 35				
	E	M	08 30	19	5		
		F	22 -				
5	E	iP	14 24 13			26°	U.S.C.G.S.: 38°N, 23°E
	NE	iS	28 42			2890 Km	N 28m 45s
	N	eL	32 00				
	E	L	33 45				T_o = 14h 18m 43s
	N	M	35 29	14	10		
	E	M	35 49	17	19		
		F	52 -				
5	NE	iS	19 18 40			71.0°	U.S.C.G.S.: 51°N, 157°E
	E	e	30 25			7890 Km	
	N	e	36 25				T_o = 18h 58m 11s
	E	L	38 15				
	N	M	47 20	18	2		
	E	M	47 33	18	4		
		F	20 11 -				
6	NE	e	02 00 -				
		F	12 -				

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.
Sep. 7	N	e	04 05 36				
	N	iS	09 35				
	N	iSS	10 38				No E-W record available
	N	e	12 20				
	N	i	16 02				
	N	M	20 35	17	24		
		F	05 15 -				
10	NE	iP	04 12 27			32°	
	E	iPP	13 23			3555 Km	
	E	iPPP	13 41				T_o = 04h 06m 02s
	NE	iS	17 37				
	N	iSS	19 16				Cyprus Earthquake
	E	i	20 05				
	N	i	23 00				
	E	i	24 04				
	E	L	27 48				
	N	M	28 46	15	34		
	E	M	31 27	15	40		
		F	05 32 -				
14	N	iPKP	00 46 27				U.S.C.G.S.: $18\frac{1}{2}^\circ$S, $178\frac{1}{2}^\circ$E
	NE	iPP	49 46				
	NE	iPPP	52 28				
	N	i	54 32				
	NE	i	01 00 24				
	N	e	12 07				
	N	e	30 50				
	E	e	31 20				
	N	M_1	44 19	20	3		
	E	M	49 09	20	6		
	N	M_2	02 21 19	25	6		
		F	58 -				
14	E	e	11 59 25				
	E	L	12 09 22				N-S record too disturbed by shaking of building to read.
	E	M	14 16	15	5		
		F	40 -				
14	NE	iP	15 01 36			24.2°	U.S.C.G.S.: 38°N, $20\frac{1}{2}^\circ$E
	NE	iS	05 52			2690 Km	T_o = 14h 56m 23s.
	NE	e	09 20				
	E	M	13 26	12	5		No definite maximum on N-S record
		F	40 -				
16	N	e	02 55 -				No E-W record available
		F	03 30 -				
17	N	i	17 34 28				
	N	i	35 18				
	N	i	39 15				
	N	i	44 40				
	N	e	52 40				
	E	e	54 50				
	N	e	22 03 20				
	NE	e	31 30				
	N	M	39 30	19	5		
	E	M	40 42	20	5		
		F	23 41 -				

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.
Sep. 20	N	e	19	46	20				
	NE	e		52	23				
	N	M		57	30	20	5		
	E	M		57	34	19	5		
		F	20	15	-				
23	NE	iP	02	25	51			71.0°	U.S.C.G.S.: 50½°N, 156°E
	N	i		26	26				
	NE	iPP		28	30			7890 Km.	
	N	i		30	31				T_o = 02h 14m 35s
	N	iS		35	04				
	NE	iPS		35	36				
	NE	iSS		39	48				
	NE	eSSS		42	40				
	NE	eL		51	20				
	E	M_1		56	33	24	24		
	N	M_1		57	02	20	19		
	N	M_2	03	04	05	17	18		
	E	M_2		06	03	18	22		
		F		52	-				
25	NE	i	14	07	08				
	NE	e		33	10				
	N	M		37	26	17	2		Slight
		F		58	-				
26	N	iP	01	13	46			72° 8000 Km.	U.S.C.G.S.: 50°N, 157½°E
	N	iS		23	21				
	N	iPS		24	06				T_o = 01h 02m 31s
	E	e		35	20				
	N	e		39	30				
	N	M		44	40	17	2		
	E	M		52	24	18	2		
		F	02	11	-				
27	NE	iS	06	24	06			60.0° 6660 Km.	
	E	iSS		28	16				
	N	eSSS		30	25				
	NE	L		34	06				No definite maximum
		F		58	-				
29	N	iPKP	01	56	12			126.0 14000 Km.	
	N	ipPKP		57	06				
	N	iPP		58	06				
	N	iPPP	02	00	15				
	N	iSKKS		04	42				No E-W record available
	N	iS		05	53				
	N	iPPS		09	26				
	N	i		11	00				
	N	i		16	15				
	N	L		24	-				
	N	M		29	54	20	22		
		F	04	-	-				
30	NE	i, e	23	26	30				
	NE	i		31	16				
	NE	e		37	33				
	N	L		39	30				
	E	L		40	40				
	N	M_Q		44	57	22	30		
	E	M_Q		46	28	18	22		
	E	M_R	24	00	47	18	22		
		F		50	-				

Natural Philosophy Department,
Marischal College,
Aberdeen.

A.E.M.Geddes

SEISMOLOGICAL BULLETIN

No. 1

KING'S COLLEGE OBSERVATORY, ABERDEEN

October - December, 1953.

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.	15/7/53
E	1 lb.	10 sec.	20 : 1	150	18.1 mm.	15/7/53

Date	Compt.	Phase	Time G.M.T. h. m. s.	Period sec.	Ampl. μ	Δ° km.	Remarks: Time of origin.
Oct. 5	N	iP	04 42 44			67.8°	U.S.C.G.S.: 53½°N, 160½°E.
	N	iS	51 41			7540 Km	
	N	i	52 05				T_o = 04h 41m 31s.
	N	e	56 34				
	N	eL	05 08 16				No E-W record available
	N	M	20 49	20	4		
		F	42 -				
6	NE	e	00 21 00				U.S.C.G.S.: 9°S, 152½°E
	NE	M_1	25 20	20	3		
	E	M_2	37 30	20	3		
	N	M_2	37 40	20	3		
		F	46 -				
6	N	ePP	21 59 24			124.2°	U.S.C.G.S.: 3½°S, 151°E
	N	ePKS	22 01 08			13,800 Km	
	N	i	05 13				T_o = 21h 38.3m
	N	i	06 16				
	N	i	09 40				
	N	iSS	15 30				No E-W record available.
	N	eSSS	20 23				
	N	eL	32 24				
	N	M	43 35	22	7		
	N	M	49 30	20	8		
		F	23 45 -				
8	N	e	16 58 15				U.S.C.G.S.: 30°N, 97½°E
	E	e	59 20				
	E	M	17 00 20	20	3		
	N	M	00 40	18	4		
		F	12 -				
8	N	iS	19 29 29				U.S.C.G.S.: 32°N, 82½°E
	N	i	37 24				
	E	e	39 20				
	E	eL	43 30				
	N	M	48 40	17	6		
	E	M	49 11	16	5		
		F	20 19 -				
9	N	e	04 09 30				
	E	e	10 30				
	E	M	11 42	15	2		No definite maximum on N-S record.
		F	15 -				

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.
Oct. 10	E	i	21 42 37				U.S.C.G.S.: 38½°N, 21°E
	N	e	43 35				
	NE	i	45 42				
		F	48 -				
11	E	e	13 26 23			71°.0	U.S.C.G.S.: 50°N, 155½°E
	N	iS	28 49			7890 Km	
	E	iPS	29 34				T_o = 13h 08m 35s
	E	e	35 20				
	NE	eL	39 30				
	N	M	53 41	19	12		
	E	M	58 06	19	12		
		F	14 50 -				
11	N	iS	17 26 42			61.5°	U.S.C.G.S.: 31½°N, 83°E
	E	eSSS	34 52			6830 Km	
	NE	eL	39 40				T_o = 17h 08.0m
	N	M	43 09	20	26		
	E	M	44 53	15	18		
		F	18 05 -				
13	E	eS	09 26 20			82°	U.S.C.G.S.: 30°N, 113½°W
	NE	i	30 52			9110 Km	
	NE	L	33 40				
	E	M_Q	36 23	18	13		
	E	M_R	40 40	15	11		
	N	M	43 49	15	10		
		F	10 06 -				
17	E	e	21 44 40				U.S.C.G.S.: 52°N, 159°E
	N	e	47 25				
	E	M	56 40	17	8		
	N	M	59 17	16	4		
		F	22 28 -				
21	NE	i	11 40 25				U.S.C.G.S.: 38°N, 20½°E
	E	M	45 42	18	7		No definite maximum on N-S
		F	56 -				Fore-shock of the following.
21	NE	iP	18 45 09			24.1°	U.S.C.G.S.: 38°N, 20½°E
	NE	iPPP	45 52			2680 Km	
	NE	iS	49 24				T_o = 18h 39m 55s
	NE	i	49 47				
	NE	iSSS	50 35				
	NE	L	53 00				
	N	M	56 10	14	34		
	E	M	58 10	14	37		
		F	19 54 -				
21	E	i	23 53 52				Very slight
	N	e	53 55				After shock of the previous.
		F	24 07 -				
1	E	eL	19 02 35				U.S.C.G.S.: 22°N, 122°E
	N	M	04 39	22	10		Obscured by microseisms
	E	M	05 23	22	13		
		F	19 -				

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.
Nov. 4	NE	iPP	04	10	46			135° 15000 Km	U.S.C.G.S.: 12½° S, 166½° E
	E	i		11	56				
	N	iPPP		13	55				
	N	iSKS		15	32				
	E	iSKKS		17	26				T_o = 03h 49.0m
	NE	iSS		28	40				
	E	i		34	42				
	E	L		44	50				
	N	L		45	36				
	E	L		53	15				
	N	M_1		58	24	24	78		
	E	M_1		59	36	22	67		
	E	M_2	05	08	35	20	99		
	N	M_2		13	26	19	74		
		F	06	58	-				
4	N	e	13	37	-				Very slight
		F		52	-				U.S.C.G.S.: 12°S, 166½° E
9	N	i	17	46	00				U.S.C.G.S.: 52½° N, 159° E
	N	e		51	30				
	N	eL	18	03	38				
	N	M		10	27	17	5		
	N	M		16	46	15	5		
		F		51	-				
10	N	e	15	18	45				
	N	M		23	16	11	3		
		F		33	-				
10	N	iP	23	52	03			76.6° 8510 Km	U.S.C.G.S.: 50½° N, 157° E
	N	iPPP		56	21				
	N	i	24	00	45				T_o = 23h 40m 15s
	N	iS		01	49				
	N	eSS		06	55				
	N	e		16	45				
	N	M_1		22	11	19	20		
	N	M_2		29	47	20	27		
		F	25	03	-				
13	N	e	19	37	25			141° 15670 Km	U.S.C.G.S.: 13°S, 166°E
	N	iSKP		38	35				
	N	iPPP		41	15				
	N	iSKS		42	05				T_o = 19h 15.5m
	N	i		51	05				
	N	iSS		56	25				
	N	L	20	32	45				
	N	M		36	34	20	11		
	N	M	21	29	20	15	5		By path > 180°
		F		42	-				
14	N	iS	20	24	02				U.S.C.G.S.: 52°N, 160°E
	N	e		29	30				
	N	e		38	25				
	N	eL		42	45				
	N	M		48	45	17	4		
		F	21	23	-				
17	N	iS	13	52	10				U.S.C.G.S.: 14°N, 92°W
	N	i	14	01	14				
	N	L		07	40				Obscured by microseisms
	N	M		14	09	22	50		
		F		52	-				

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.
Nov.	N	e	17 59 16				
* 25	N	iP	18 01 26			83.8	U.S.C.G.S.: 34°N, 141°E
	N	iPP	04 53				
	N	iPPP	06 48			9310 Km	
	N	i	08 58				T_o = 17h 49m 03s
	N	iS	11 43				
	N	iPS	12 28				
	N	i	14 02				
	N	iSS	17 16				
	N	iSSS	20 46				
	N	i	25 54				
	N	L	30 40				
	N	M_1	37 50	21	535		
	N	M_2	44 41	17	340		
		F	22 40 -				
26	N	iPP	00 19 16			83.8	U.S.C.G.S.: 34°N, 141°E
	N	iS	26 19			9310 Km	
	N	i	29 26				T_o = 00h 03m 39s
	N	eSS	32 16				
	N	e	47 46				
	N	L	52 00				
	N	M	57 46	18	24		
		F	01 45 -				
26	N	e	02 34 36				
	N	M	44 41	15	4		Very disturbed by wind on building.
		F	03 10 -				
* 26	N	iS	08 37 19			83.8	U.S.C.G.S.: 34°N, 141°E
	N	iSS	42 44			9310 Km	
	N	i	48 14				T_o = 08h 14m 27s
	N	e	55 36				
	N	L	58 56				Obscured by shaking of building
	N	M_Q	09 05 51	15	29		
	N	M_R	09 54	19	49		
		F	10 - -				
* 29	N	L	01 05 25				
	N	M	09 41	12	3		
		F	16 -				
29	N	e	05 04 30				
		F	12 -				Very slight
Dec.							
2	N	ePP	04 45 18			120°	U.S.C.G.S.: 3½°S, 141½°E
	N	iSKKS	52 37			13340 Km	
	N	ePPS	55 50				T_o = 04h 24m 42s
	N	e	05 00 30				
	N	L	24 07				
	N	M	33 35	25	13		
		F	06 45 -				
3	N	i	15 13 39				U.S.C.G.S.: 31°N, 85½°E
	N	i	20 26				
	N	i	26 56				
	N	M	32 12	22	33		
		F	16 12 -				

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.
4	N	i	15	08	38				U.S.C.G.S.: 49½°N, 129°W
	N	i		10	57				
	N	iS		14	16				
	N	i		16	54				
	N	iSS		18	28				
	N	eSSS		20	49				
	N	L		25	37				
	N	M		28	30	22	33		
	N	M		30	34	18	29		
		F	16	31	-				
5	N	e	10	28	45				
	N	M		35	34	18	4		
		F		53	-				
7	N	iSKS	02	29	30			96.4°	U.S.C.G.S.: 22°S, 68½°W
	N	iSKKS		30	09			10710 Km	
	N	i		30	57				T_o = 02h 05m 35s
	N	iPPS		32	24				
	N	iSS		36	51				
	N	iSSS		40	41				
	N	e		47	44				
	N	L		51	49				
	N	M		59	36	19	20		
		F	03	49	-				
8	N	e	03	01	50				
	N	M		03	50	15	2		Very slight
		F		06	-				
9	N	e	02	14	20				
		F		43	-				Very slight
12	N	iP	17	44	14			86.0°	
	N	iP_eP		44	26			9555 Km	
	N	iPP		47	4[illegible]				T_o = 17h 31.7m
	N	i		51	55				
	N	iS		54	50				
	N	iS_eS		55	09				
	N	iSS	18	00	22				
	N	iSSS		03	41				
	N	i		07	10				
	N	L		14	10				
	N	M		16	41	24	78		
	N	M		20	20	21	61		
		F	21	-	-				
18	N	e	04	01	-				Slight. ? seismological
	N	M		07	33	20	4		
		F		?					
22	N	e	19	36	35				
	N	M		44	43	19	7		
		F		52	-				
24	N	e	03	12	45				
	N	M		21	03	19	4		
		F		58	-				

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.
Dec. 25	N	i	02	11	58				
	N	iS		12	18				
	N	iSS		17	26				Obscured by microseisms
	N	i		23	00				
	N	i		26	36				
	N	i		37	30				
	N	i		43	05				
	N	M		55	03	18	22		
		F	03	40	-				
28	N	e	02	48	30				
		M		55	05	15	3		B.C.I.S.: 38½°N, 21°E
		F		59	-				

A.E.M.Geddes

Natural Philosophy Department,
Marischal College,
Aberdeen.