DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, JANUARY 1956.

Readings from two Milne-Shaw (horizontal) seismographs recording North and East components respectively. T = 12 secs., damping ratio 20 : 1, magnfication 250.

Position:- latitude 54°46'N, longitude 01°35'W, height above M.S.L. 103 metres.

There have been times when one of the instruments has not recorded.

Date	Phase and component	Time G.M.T.	Period Sec.	Amplitude microns	Distance degrees	Time of origin To
Jan. 6	PE	05 48 20				
	SE	05 51 47			18	05 44 10
Jan. 8	iNE	21 16 30				
	iNE	21 19 01				
	ME	21 46	20	19		
Jan. 10	E	08 12 20				
	N	08 12 27				
	E	08 12 42				
	N	08 12 45				
Jan. 10	?N	09 12 18				
	?E	09 12 45				
	?N	09 17 11				
	?E	09 18 07				
	ME	10 30	16	34		
Jan. 11	MN	07 05				
Jan. 12	iPNE	05 49 46				
	SN	05 52 35			14	05 46 28
	ME	05 55	10	14		
Jan. 14	N	13 44 44				
	E	13 46 30				
Jan. 16-17	iPE	23 50 15				
	NE	23 50 20				
	PPN	23 53 38				
	PPPN	23 55 30				
	iSN	00 00 39			84	23 37 49
	PSN	00 01 45				
	SSN	00 06 19				
	SSSN	00 09 41				
	MN	00 25	18	46		
Jan. 28	MN	05 21				

2 February 1956.

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, FEBRUARY 1956.

Readings from two Milne-Shaw (horizontal) seismographs recording North and East components respectively. T = 12 secs., damping ratio 20 : 1, magnification 250.

Position:- latitude 54°46'N, longitude 01°35'W, height above M.S.L. 103 metres.

There have been times when both the instruments have not recorded.

Date	Phase and component	Time G.M.T.	Period Secs.	Amplitude microns	Distance degrees	Time of origin To
9 Feb.	?iE	14 21 03				
	?iN	14 30 31				
	ME	15 14	16	80		
11 Feb.	iNE	11 35 41	Artificial			
12 Feb.	?eE	11 56 09				
	NE	12 01 13				
	NE	12 17 56				
	E	12 20 47				
	NE	12 21 16				
	MN	12 48	13	15		
13 Feb.	?N	14 55 16				
	E	14 59 09				
	ME	15 21	11	2		
14 Feb.	N	18 51 28				
	ME	19 16	19	18		
15 Feb.	ME	02 03	14	7		
16 Feb.	MN	16 19				
18 Feb.	iN	07 48 16				
	iNE	07 56 05				
	MN	08 27	15	17		
18 Feb.	iNE	11 32 49	Artificial			
19 Feb.	iPNE	02 28 49				
	iSNE	02 37 38			66.5	02 18 00
	MN	02 55	18	33		
20 Feb.	iPE	20 37 16				
	iE	20 41 29				
	iE	20 41 45				
	SNE	20 41 57			27	20 31 37
	NE	20 42 05				
	MN	20 50	10	22		
22 Feb.	MNE	08 55				
28 Feb.	iE	00 02 08	?Seismic			
	iN	00 03 31				
	iE	00 06 40				
29 Feb.	ME	13 14	?Seismic			
29 Feb.	ME	16 16	?Seismic			
29 Feb.	MN	21 40	22	10		

March 5, 1956.

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, MARCH, 1956.

Readings from two Milne-Shaw (horizontal) seismographs recording North and East components respectively. T = 12 secs., damping ratio 20 : 1, magnification 250.

Position :- latitude 54°46'N, longitude 01°35'W, height above M.S.L. 103 metres.

Date	Phase and component	Time G.M.T.	Period Secs.	Amplitude microns	Distance degrees	Time of origin To
Additions and corrections to 1955 September list and 1956 February list.						
1955 Sept. 22	SN	03 48 33				
Sept. 24	PE	10 33 53				
	iSN	10 45 13				
Sept. 25	SKSNE	19 23 50				
Sept. 26	PNE	08 40 03				
	iSNE	08 49 37			75	08 28 25
1956 Feb. 1	PE	15 14 59				
	SNE	15 18 29			20	15 10 40
Feb. 12 Delete	eE	11 56 09				
Insert	PNE	12 01 13				
	NE	12 12 51				
	NE	12 13 02				
	N	12 13 23				
Feb. 18 Insert	E	07 46 33				
	N	07 56 30				
	E	07 56 34				
Mar. 3	MN	01 21				
Mar. 3	ME	18 33				
Mar. 5	iNE	14 34 10	Artificial			
Mar. 5-6	NE	23 50 10				
	N	00 01 48				
	ME	00 14		20	8	
Mar. 13	ME	13 57		16	3	
Mar. 16	ME	20 05				
Mar. 21	MN	05 17		21	6	
Mar. 24	iNE	13 02 01	Artificial			
Mar. 25-26	N	23 55 10				
	NE	23 56 05				
	E	00 08 46				
	MN	00 17		16	2	
Mar. 31	iNE	12 04 58	Artificial			

3 April, 1956.

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, APRIL, 1956.

Readings from Two Milne-Shaw (horizontal) seismographs recording North and East components respectively. T = 12 secs., damping ratio 20 : 1, magnification 250.

Position:- latitude 54°46'N, longitude 01°35'W, height above M.S.L. 103 metres.

There have been times when one of the instruments has not recorded.

Date	Phase and component	Time G.M.T.	Period Secs.	Amplitude microns	Distance degrees	Time of origin To
Corrections and additions to earlier lists.						
1952 July 29	PE	07 15 29				
1952 Aug. 22	PE	22 53 12				
	SE	23 02 54				
	ME	23 23	17	1.5		
1955 Oct. 21	iPKPNE	19 21 14				
	PPE	19 43 04				
	PPSE	19 56 04				
	SSE	20 01 27				
1956 Mar. 5	SE	23 51 30				
April 1	?N	10 54 40				
	NE	10 56 35				
	ME	11 22	19	2		
April 2	N	11 14 18				
	NE	11 14 58				
	ME	11 49	24	7		
April 6	MNE	07 32				
April 7	iNE	11 55 07	Artificial			
April 12	MN	23 09				
April 14	iNE	11 38 31	Artificial			
April 19	eE	18 48 42				
	iE	18 49 27				
April 22	iN	17 33 13				
	eE	17 42 23				
	iN	17 42 26				
	MN	18 08	16	4		

2 May 1956

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, MAY, 1956

Readings from two Milne-Shaw (horizontal) seismographs recording North and East components respectively. T = 12 secs., damping ratio 20 : 1, magnification 250.

Position:- latitude 54°46'N, longitude 01°35'W, height above M.S.L. 103 metres.

There have been times when both the instruments have not recorded.

Date	Phase and component	Time G.M.T.	Period Secs.	Amplitude microns	Distance degrees	Time of origin To
May 7	?NE	11 49 22				
	MN	12 22	18	1		
May 13	ME	08 30	14	6		
May 19	iNE	11 03 19	Artificial			
May 19	N	20 12 52				
	E	20 13 39				
	E	20 23 11				
	MN	21 11	13	3		
	MN	22 15	22	6		
May 22	MN	04 21	21	8		
May 23	eNE	21 07 10				
	iE	21 07 17				
	iNE	21 09 54				
	iNE	21 10 09				
	iN	21 10 47				
	NE	21 11 44				
	iN	21 12 34				
	iE	21 14 42				
	iN	21 18 17				
	iN	21 20 14				
	iNE	21 24 59				
	iE	21 28 09				
	iN	21 28 57				
May 26	iNE	18 46 53				
May 26	iN	20 39 51				
	iN	20 49 06				
	iN	20 54 28				
	iNE	21 01 07				

2 June 1956

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, JUNE, 1956.

Readings from two Milne-Shaw (horizontal) seismographs recording North and East components respectively. T = 12 sec., damping ratio 20 : 1, magnification 250.

Position:- latitude 54°46'N, longitude 01°35'W, height above M.S.L. 103 metres.

There have been times when both of the instruments have not recorded.

Date	Phase and component	Time G.M.T.	Period Sec.	Amplitude microns	Distance degrees	Time of origin To
Additional readings for December 1955.						
Dec. 6	PN	04 44 19				
	PPE	04 48 22				
	SN	04 55 53				
Dec. 7	PN	15 16 16				
	PPNE	15 20 21				
	SN	15 27 07				
	E	15 27 42				
June 9	ME	11 06	20	14		
	MN	11 14	15	11		
June 9	iPNE	23 22 51				
	iSN	23 30 07			51	23 13 53
	MN	23 45	20	560		
June 11	E	08 05 22				
	E	08 11 24				
	E	08 26 19				
	MN	08 32	13	6		
June 23	iPN	02 29 07				
	PPN	02 31 44				
	PPPN	02 33 27				
	iE	02 38 09				
	iSNE	02 38 11			69.5	02 17 59
	ScSN	02 39 11				
	SSN	02 42 47				
	SSSE	02 45 39				
	MN	03 07	13	10		
June 28	ME	23 39	18	35		
June 30	eNE	01 59 33				
	iNE	01 59 41				
	ME	02 04	15	3		

2 July 1956.

JRHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, JULY, 1956

Readings from two Milne-Shaw (horizontal) seismographs recording North and East components respoectively. T = 12 secs., damping ratio 20 : 1,

Position:- latitude 54°46'N, longitude 01°35'W, height above M.S.L. 103 metres.

There have been times when both of the instruments have not recorded.

Date	Phase and component	Time G.M.T.	Period Sec.	Amplitude microns	Distance degrees	Time of origin To
Jly 9	eN	01 02 17				
	iNE	01 02 20				
	iN	01 02 26				
Jly 9	iPNE	03 17 17C				
	iNE	03 17 19D				
	iPcPN	03 20 53				
	iSN	03 21 59			27	03 11 41
	MN	03 31	12	360		
Jly 9	PE	10 06 38				
	N	10 15 05				
	SNE	10 15 29			67	09 55 46
	ME	10 30	19	8		
Jly 12	MNE	15 51				
Jly 16	iPN	15 19 05				
	iPcPN	15 19 19				
	PPPN	15 23 41				
	iSNE	15 28 37			74	15 07 28
	PPSN	15 29 19				
	ME	15 57	15	55		
Jly 17	?E	07 55 04				
	iNE	07 58 10				
	iNE	07 59 30				
	iN	08 00 17				
	E	08 01 55				
	NE	08 02 14				
	ME	08 39	15	3		
Jly 18	?eN	06 36 50				
	?eN	06 37 21				
	?eE	06 38 11				
	iE	06 39 08				
	iNE	06 46 05				
	iN	06 46 56				
	iN	06 49 22				
	iNE	06 49 35				
	ME	07 22	25	50		

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS. JULY, 1956 continued.

Date	Phase and component	Time G.M.T.	Period Sec.	Amplitude microns	Distance degrees	Time of origin To
Jly 21	?N	00 18 11				
	?N	00 18 50				
	eNE	00 26 26				
	ME	00 36	15	1		
Jly 21	iPE	15 42 41C				
	iSE	15 50 57			61	15 32 29
	ME	16 17	15	8		
Jly 27	NE	13 34 23				
	E	13 34 29				
	N	13 34 32				
	N	13 34 34				
	N	13 34 44				
Jly 27	E	13 37 44				
	N	13 37 47				
	NE	13 37 50				
	NE	13 37 53				
	NE	13 37 58				
Jly 28	iNE	10 33 20	Artificial			
Jly 28	eNE	11 57 58	Artificial			
	iNE	11 58 16				
Jly 30	MN	09 30	18	25		

2 August 1956.

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, AUGUST, 1956.

Readings from two Milne-Shaw (horizontal) seismographs recording North and East components respectively. T = 12 secs., damping ratio 20 : 1, magnification 250.

Position:- latitude 54°46'N, longitude 01°35'W, height above M.S.L. 103 metres.

There have been times when one of the instruments has not recorded.

Date	Phase and component	Time G.M.T.	Period Sec.	Amplitude microns	Distance degrees	Time of origin To
	Additions and corrections to earlier lists.					
June 24	PKPNE	21 17 27				
	PPNE	21 19 39				
	SKSNE	21 24 27				
	SSE	21 36 57				
June 28	P	23 09 56				
	PcPE	23 10 32				
	PPN	23 12 35				
	S	23 18 55			68.5	22 58 56
July 9	PNE	10 06 19				
	pPNE	10 06 54				
	SE	10 14 42				
Aug. 3	N	10 03 09			?Seismic	
	E	10 03 37				
Aug. 4	iNE	10 52 08			Artificial	
Aug. 9	iNE	15 04 20			Artificial	
	iNE	16 53 30			Artificial	
Aug. 9	?eNE	23 16 53				
	eNE	23 17 26				
	NE	23 19 48				
	N	23 22 48				
	NE	23 23 26				
	NE	23 23 56				
	NE	23 24 38				
Aug. 12	eNE	17 22 41				
	NE	17 28 35				
	ME	17 47	24	30		

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, AUGUST, 1956 continued.

Date	Phase and component	Time G.M.T.	Period Sec.	Amplitude microns	Distance degrees	Time of origin To
Aug. 15	E	11 10 35				
	NE	11 15 43				
	E	11 16 04				
	ME	11 21	12	2		
Aug. 15	N	11 26 05				
	MN	11 50	20	2		
Aug. 15	NE	12 05 43				
	NE	12 06 50				
	N	12 09 55				
	MN	12 14	10	3		
Aug. 15	iN	13 33 55				
	iE	13 34 10				
	ME	14 02	20	5		
Aug. 16	NE	00 48 12				
	ME	00 53	15	7		
Aug. 17	ME	01 34	16	3		
	ME	02 10	15	2		
Aug. 23	iPE	14 01 28				
	iSE	14 11 46			83	13 49 00
	iScSE	14 12 14				
	iE	14 13 19				
	ME	14 47	19	4		
Aug. 24	iE	04 39 11				
	iE	04 48 09				
	iN	04 48 36				
	MN	05 09	16	8		

Any later readings will be given in the September list.

28th August, 1956.

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, part AUGUST & SEPTEMBER 1956

Readings from two Milne-Shaw (horizontal) seismographs recording North and East components respectively. T = 12 secs., damping ratio 20 : 1, magnification 250.

Position:- latitude 54°46'N, longitude 01°35'W, height above M.S.L. 103 metres.

There have been times when both the instruments have not recorded.

Date	Phase and component	Time G.M.T.	Period Sec.	Amplitude microns	Distance degrees	Time of origin To
		Additions to earlier lists.				
1955 Sept. 26	ePE	08 40 08				
1956 April 6	PE	07 20 22				
	SN	07 27 23				
April 12	SN	22 48 14				
July 17	PKPE	07 52 06				
	PPN	07 53 16				
	PPE	07 53 19				
July 22	PN	03 34 29				
July 23	PKPE	19 44 32				
	E	19 46 10				
	SSE	20 01 35				
July 30	PN	05 46 39				
	SN	05 51 16				
July 30	PNE	09 20 41				
Aug. 23	eN	16 32 42				
	iNE	16 32 46				
	iNE	16 32 55				
Aug. 29	iNE	17 22 20		Artificial		
Aug. 30	iNE	10 52 55		Artificial		
Sept. 6	eNE	11 52 34				
	iNE	11 57 02				
	ME	12 02		15	7	
Sept. 8	iNE	10 56 03		Artificial		
	iNE	11 07 14		Artificial		

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, SEPTEMBER 1956 continued.

Date	Phase and component	Time G.M.T.	Period Sec.	Amplitude microns	Distance degrees	Time of origin To
Sept. 16	iE	08 45 56				
	iE	08 46 42				
	iN	08 54 05				
	iN	08 56 32				
	ME	09 12	18	38		
Sept. 16	ME	15 00				
Sept. 16	ME	18 26				
Sept. 20	eN	22 13 34				
	eN	22 24 32				
	eN	22 33 21				
	MN	22 43	15	2		
Sept. 20	iE	22 59 15				
	iN	23 21 21				
	MN	23 44	10	2		
Sept. 24	iNE	16 49 38	Artificial			
Sept. 27	iNE	14 04 05	Artificial			

2 October 1956

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, OCTOBER, 1956.

Times of horizontal components of earth displacement from Milne-Shaw seismographs recording North and East components: free period 12 sec., damping ratio 20 : 1, magnification 250.

Times of vertical component of motion from Wilson-Lamison seismometer free period 1 sec., G.E. galvanometer free period 3.4 sec.

Position:- latitude 54°46'N, longitude 01°35'W, height above M.S.L. 103 metres.

Date	Phase and component	Time G.M.T.	Period Sec.	Amplitude microns	Distance degrees	Time of origin H
		Additions and corrections to earlier lists				
1956						
May 13	PNE	08 00 22				
	SE	08 08 09				
May 19	SE	20 27 21				
	SN	20 27 25				
Aug. 12	PE	17 12 13				
	eSNE	17 22 41			86	16 59 33
	SSNE	17 28 35				
	ME	17 47	24	30		
Aug. 15	NE	12 05 43				
	PNE	12 06 50				
	SN	12 09 55			17	12 02 59
	MN	12 14	10	3		
Aug. 15	PNE	13 24 11				
	iSN	13 33 55			79	13 12 10
	iE	13 34 10				
	ME	14 02	20	5		
Aug. 16	ePE	00 43 56				
	SNE	00 48 12			24	00 38 38
	ME	00 53	15	7		
Aug. 17	PE	01 26 22				
	SE	01 31 34				
	ME	01 34	16	3		
Aug. 17	PE	02 04 08				
	SE	02 07 35				
	ME	02 10	15	2		
Aug. 24	iPE	04 39 11				
	iE	04 48 09				
	iSN	04 48 36			73	04 27 44
	MN	05 09	16	8		

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, OCTOBER, 1956 continued.

Date	Phase and component	Time G.M.T.	Period Sec.	Amplitude microns	Distance degrees	Time of origin H
Sept. 6	ePNE	11 52 34				
	iSNE	11 57 02			25.5	11 47 06
	ME	12 02	15	7		
Sept. 16	iE	08 45 56				
	iPE	08 46 42				
	iSN	08 54 05			52	08 37 32
	iN	08 56 32				
	ME	09 12	18	38		
Sept. 20	PN	22 03 36				
	SN	22 13 04			73.5	21 52 01
	eN	22 13 34				
	eN	22 24 32				
	eN	22 33 21				
	MN	22 43	15	2		
Oct. 1	iNZ	10 59 08	Artificial			
Oct. 2	iNEZ	17 00 29	Artificial			
Oct. 6	iNEZ	10 25 12	Artificial			
Oct. 8	iPKPZ	15 15 29				
	PPN	15 19 25				
	NE	15 35 35				
	ME	16 24	18	1		
Oct. 11	iPNEZ	02 36 19				
	PcPNE	02 36 37				
	PPNE	02 39 13				
	PPPN	02 40 58				
	iSNEZ	02 45 57			75	02 24 39
	SSSE	02 54 05				
	MN	03 03	25	80		
	ME	03 10	20	47		
Oct. 11	PZ	17 00 26				
	SNE	17 10 02			75	16 48 48
	ME	17 29	20	18		
	ME	17 34	16	22		
Oct. 12	ME	03 33	20	5		
Oct. 12	MN	13 16				
Oct. 18	iNEZ	13 56 20	Artificial			

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, OCTOBER, 1956 continued.

Date	Phase and component	Time G.M.T.	Period Sec.	Amplitude microns	Distance degrees	Time of origin H
Oct. 19	ME	15 30	19	2		
Oct. 19	PNZ	21 07 14				
	N	21 16 49				
	E	21 17 18				
	MN	21 41	15	12		
Oct. 22	MN	13 57	20	2		
Oct. 23	?iZ	09 12 44				
	MNE	09 35				
Oct. 24	iZ	14 54 47				
	iE	15 04 23				
	ME	15 23	20	75		
Oct. 25	ME	06 05	16	5		
Oct. 26-27	?iZ	23 42 33				
	?iNZ	00 01 09				
	MN	00 14	18	8		
Oct. 27	iNEZ	11 07 11	Artificial			
Oct. 28	MNE	04 56				
Oct. 28	MNE	11 42				
Oct. 29	iZ	16 12 38				
	ME	16 30	10	5		
Oct. 29	iZ	16 35 09				
Oct. 30	ME	00 20	10	7		
Oct. 31	iPEZ	14 12 30				
	EZ	14 12 36				
	Z	14 12 47				
	E	14 12 50				
	EZ	14 12 54				
	PPE	14 14 19				
	EZ	14 14 53				
	SEZ	14 19 29			48	14 03 49
	iE	14 23 34				
	MN	14 38	16	18		

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, NOVEMBER, 1956.

Time of horizontal components of earth displacement from Milne-Shaw seismographs recording North and East components: free period 12 sec., damping ratio 20 : 1, magnification 250.

Times of vertical component of motion from Wilson-Lamison seismometer free period 1 sec., G.E. galvanometer free period 3.4 sec.

Position:- latitude 54°46'N, longitude 01°35'W, height above M.S.L. 103 metres.

Date	Phase and component	Time G.M.T.	Period Sec.	Amplitude microns	Distance degrees	Time of origin H
Nov. 2	iNZ	15 59 35				
	iNZ	16 09 23				
	MN	16 19	10	2		
Nov. 4	Z	07 25 26				
	NZ	07 25 50				
	N	07 26 01				
Nov. 9	iPEZ	13 17 58				
	ipPZ	13 18 35				
	iZ	13 18 55				
	iSE	13 27 35			77	13 06 20
	MN	13 39	25	20	?100 km deep	
Nov. 10	iNZ	11 29 56	Artificial			
Nov. 12	?eNZ	18 39 13				
Nov. 13	iZ	10 15 12				
Nov. 14	iZ	01 00 32				
	iZ	01 01 09				
	iNE	01 07 34				
	ME	01 12	15	3		
	ME	01 28	18	4		
Nov. 15	iNEZ	16 08 13	Artificial			
Nov. 16	iNEZ	11 58 18	?seismic			
	iEZ	12 16 24				
Nov. 17	EZ	20 08 19				
	Z	20 08 43				
	ME	20 59	25	6		
Nov. 18	eN	05 31 38				
	Z	05 31 47				
	ME	05 52				

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, NOVEMBER, 1956 continued.

Date	Phase and component	Time G.M.T.	Period Sec.	Amplitude microns	Distance degrees	Time of origin H
Nov. 20	?Z	22 06 14				
	MNE	23 35				
Nov. 21	?Z	07 57 40				
	MN	08 26				
Nov. 22	Z	11 06 58				
	Z	11 39 36				
Nov. 23.	E	07 40 43	?seismic			
	Z	07 42 08	?seismic			
Nov. 24	iNEZ	11 27 34	Artificial			
Nov. 25	?Z	15 12 33				
	?N	15 12 38				
	MNE	15 30				
Nov. 26	?iZ	09 40 55				
Nov. 28	Z	19 47 58				
	MN	20 17				
Nov. 29	Z	09 37 32				
	ME	10 06	25	16		

December 3, 1956

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, DECEMBER, 1956

Time of horizontal components of earth displacement from Milne-Shaw seismographs recording North and East components: free period 12 sec., damping ratio 20 : 1, magnification 250.

Times of vertical component of motion from Wilson-Lamison seismometer free period 1 sec., G.E. galvanometer free period 3.4 sec.

Position:- latitude 54°46'N, longitude 01°35'W, height above M.S.L. 103 metres.

Date	Phase and component	Time G.M.T.	Period Sec.	Amplitude microns	Distance degrees	Time of origin H
		Additions and corrections to earlier lists				
1956 June 30	eN	01 55 20				
Oct. 19	PZ	20 56 48				
	for PNZ read SNZ					
Oct. 26	?PZ	23 09 43				
Oct. 30	PNE	00 14 30				
	SN	00 17 18				
Nov. 5	?Z	19 48 19				
Nov. 17	EZ	20 38 19				
	Z	20 38 43				
Dec. 5	iNEZ	14 25 09	Artificial			
Dec. 8	iNEZ	11 27 25	Artificial			
Dec. 8	PNZ	16 22 09				
	NE	16 31 41				
	NE	16 31 52				
	SN	16 32 09			79	16 10 05
	SKSN	16 32 16				
	ScSN	16 32 34				
	MN	17 03	18	15		
Dec. 14	iNEZ	12 01 07	Artificial			
Dec. 18	?Z	02 26 50				
	?Z	02 35 14				
	EZ	02 40 34				
	EZ	02 49 47				
	NE	02 55 44				
	LQN	03 15 24				
	MN	03 16	35	70		
	LREZ	03 25 25				

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, DECEMBER, 1956 continued

Date	Phase and component	Time G.M.T.	Period Sec.	Amplitude microns	Distance degrees	Time of origin H
Dec. 21	PZ	09 09 46				
	PcPZ	09 10 31				
	PPN	09 12 13				
	PPE	09 12 17				
	PcSNE	09 14 38				
	SNE	09 18 28			65	08 59 09
	SSE	09 19 39				
	SSSE	09 25 35				
	MN	09 39	15	52		
Dec. 22-23	?Z	23 37 30				
	ME	00 09	15	7		
Dec. 25	iPE	09 37 40				
	iZ	09 37 43				
	PPN	09 37 53				
	SE	09 39 33			10	09 35 17
	SSN	09 39 51				
	SSSN	09 40 08				
	ScSN	09 50 54				
	ME	09 43				
Dec. 27	iPZ	00 33 32				
	eE	00 33 37				
	Z	00 45 33				
	N	00 47 45				
	iE	00 55 50				
	ME	01 16	20	18		

2 January 1957.

DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS.

Corrections and additions to earlier lists in 1956.

Readings from two Milne-Shaw (horizontal) seismographs recording North and East components respectively. T = 12 secs., damping ratio 20 : 1, magnification 250.

Position:- latitude 54°46'N, longitude 01°35'W, height above M.S.L. 103 metres.

Date	Phase and component	Time G.M.T.	Period Sec.	Amplitude microns	Distance degrees	Time of origin To
Jan 10	Insert					
	PKP_1N	09 12 18				
	PKP_2E	09 12 45				
Jan 16-17	Delete					
	iPE	23 50 15				
	iSN	00 00 39				
	insert					
	PN	23 50 02				
	SN	00 00 14				
	iScSN	00 00 39				
May 4	Insert					
	?ePN	23 26 51				
	SN	23 27 35				
May 23	Insert					
	ePKPNE	21 07 10				
May 26	Insert					
	N	18 44 09				
	E	18 44 16				
May 26	Insert					
	iPKPN	20 39 51				
	iSKKSN	20 49 06				
June 9	Insert					
	?PE	10 20 35				
	?SN	10 31 32				
June 11	Delete					
	E	08 05 22				
	E	08 11 24				
	insert					
	PE	08 26 19				
	SNE	08 29 44				

2 August 1956.