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DURHAM UNIVERSITY OBSERVATORY



READINGS FROM SEISMOGRAMS, JANUARY, 1955.

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
5 Jan.	iN	01 10 35				
	eN	01 15 15				
	iE	01 15 39				
	iE	01 21 58				
	MN	02 29	22	36		
5 Jan.	ME	19 12	22	22		
6 Jan.	ME	01 09	16	10		
8 Jan.	N	07 56 50				
	iNE	07 58 03				
	MN	08 56	24	22		
13 Jan.	MN	02 49	16	32		
28 Jan.	iN	17 21 09				
	iN	17 27 08				
	MN	17 43	14	24		
31 Jan.	MN	16 53				

February 2, 1955.

DURHAM UNIVERSITY OBSERVATORY

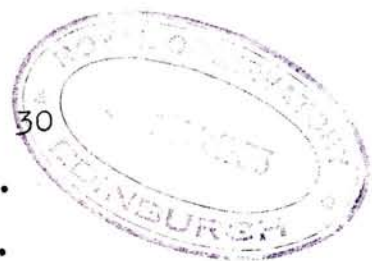
READINGS FROM SEISMOGRAMS FEBRUARY, 1955.

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

Position:- latitude  $54^{\circ}46'N$ , longitude  $01^{\circ}35'W$ , 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
6 Feb.	ME	01 05				
6 Feb.	eNE	02 31 48				
	iNE	02 31 52				
	MN	02 38	15	30		
9 Feb.	iNE	15 42 47	Artificial.			
14 Feb.	iNE	12 21 31	Artificial.			
14 Feb.	eN	17 18 26				
	eNE	17 34 30				
	MN	17 58	19	10		
16 Feb.	iNE	17 45 46	Artificial.			
18 Feb.	ME	23 25	17	6		
19 Feb.	iNE	15 11 46	Artificial.			
22 Feb.	N	23 10 06				
	N	23 19 14				
	ME	23 27	12	1		
23 Feb.	iNE	15 39 42	Artificial.			
26 Feb.	iNE	15 20 24	Artificial.			
27 Feb.	iN	21 03 22				
	iN	21 07 18				
	iNE	21 17 26				
	ME	22 09	24	190		



2 March 1955.



DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, MARCH, 1955.

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.

Corrections to readings for 6 February 1955. In place of readings given in the February list please read the following.

6 Feb.	PN	00 59 43				
	SN	01 03 26			20	00 55 13
	ME	01 05				
6 Feb.	iPNE	02 32 18				
	iSN	02 35 58			18.5	02 27 33
	MN	02 38	15	30		

Date	Phase and component	Time G.M.T.	Period Secs.	Amplitude microns	Distance degrees	Time of origin To
Mar. 1	ME	05 13	18	52		
Mar. 3	ePN	20 51 39				
	eSE	20 55 09			19	20 47 25
	ME	20 56	10	6		
Mar. 5	iNE	11 34 29	Artificial			
Mar. 6	?iNE	13 58 02				
	?NE	14 08 00				
	ME	14 37	12	9		
Mar. 14	PN	13 23 46				
	SE	13 32 40	?Deep		68	13 12 51
Mar. 18	PNE	00 18 00				
	E	00 27 09				
	E	00 27 19				
	iN	00 28 04				
	ME	00 39	32	50		
Mar. 18	iNE	17 01 20	Artificial			
	iNE	17 01 29				
Mar. 22	ME	02 45	12	13		
Mar. 22	E	14 23 00				
	E	14 29 32				
	E	14 37 28				
	ME	15 08	19	25		
Mar. 24	iNE	17 44 18	Artificial			
Mar. 27	NE	14 37 00				
	E	14 40 48				
	ME	14 57	15	1		

DURHAM UNIVERSITY OBSERVATORY
READINGS FROM SEISMOGRAMS, MARCH, 1955 continued.

Date	Phase and component	Time G.M.T.	Period Secs.	Amplitude microns	Distance degrees	Time of origin To
Mar. 27	NE	14 58 32	10	4		
	ME	15 22				
Mar. 28	iE	01 03 44				
Mar. 28	ePE	14 50 55	10	3	23	14 45 57
	eSE	14 55 02				
	ME	15 00				
Mar. 31	?eN	18 29 04	20	550		
	iNE	18 31 18				
	iNE	18 35 36				
	iNE	18 42 01				
	ME	19 16				
Mar. 31	ME	21 59	16	10		

April 2, 1955.



DURHAM UNIVERSITY OBSERVATORY SEISMOGRAMS

CORRECTIONS AND ADDITIONS TO APRIL, AUGUST & SEPTEMBER LISTS.

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.
April 1	ePN	18 44 58
April 4	PE SNE	19 35 50 19 45 25
April 10	PE	17 51 54
April 13	SE	20 54 24
April 19	iPNE	16 52 24 compression
April 19	iSN	20 48 58
April 24	delete S from and add	N iSE 13 15 57 13 16 10
April 28	delete P from and add	PN 19 16 21 19 17 00
August 21	delete P before add delete S before	iSKSN 17 54 27 and insert PP 17 59 43 18 03 57
September 3	add insert PcP before add	PNE iN 12 47 52 12 48 14 12 58 34
September 3	add	SKSNE 16 48 22

29 October 1955.





DURHAM UNIVERSITY OBSERVATORY  
READINGS FROM SEISMOGRAMS, APRIL, 1955.

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
<u>Correction and addition to March list.</u> In place of readings given read:-						
Mar. 14	PN	13 23 46				
	eE	13 32 40				
	iN	13 33 18				
Mar. 28	iPE	01 03 44				
	iSE	01 07 33			21	00 59 07
April 1	eNE	18 48 23				
	eNE	18 48 29				
	ME	18 52	8	8		
April 4	?E	11 20 55				
	NE	11 27 49				
	E	11 34 57				
	NE	11 35 22				
	ME	12 08	16	48		
April 4	ME	20 11	17	7		
April 5	NE	14 45 10				
	iE	14 49 00				
	ME	14 55	17	7		
April 5	iNE	15 31 27				
	iN	15 36 35				
	ME	15 53	16	36		
April 5	iNE	17 42 24	Artificial			
April 10	eNE	18 34 45				
	ME	18 44	12	5		

READINGS FROM SEISMOGRAMS, APRIL, 1955 (continued)

Date	Phase and component	Time G. M. T.	Period Secs.	Amplitude microns	Distance degrees	Time of origin To
April 14	PE	01 40 35				
	E	01 40 38				
	E	01 40 40				
	E	01 50 02				
	SNE	01 50 09			75	01 28 57
	ME	02 09	25	890		
April 15	PNE	03 50 02				
	PcPE	03 51 21				
	PcSNE	03 55 15				
	SNE	03 57 16			50.5	03 41 07
	ScSE	03 59 57				
	ME	04 19	12	270		
April 17	iPN	18 46 43				
	iN	18 46 54				
	iSE	18 56 16			74.5	18 35 06
	N	18 56 23				
	PPSN	18 57 12				
	iE	18 57 19				
	ME	19 28	14	24		
April 19	iPNE	16 52 24				
	iPPE	16 52 59				
	eNE	16 55 19				
	iSNE	16 56 29			22.5	16 47 28
	ME	17 01	14	32		
April 19	?eNE	20 38 26				
	eNE	20 38 48				
	ME	21 26	16	40		
April 21	iPNE	07 23 25				
	iPcPN	07 27 27				
	iSE	07 29 32			23	07 18 27
	iSSE	07 28 22				
	iSSSE	07 28 37				
	ME	07 32	12	12		
April 24	PN	13 15 57				
	N	13 18 20				
	iSNE	13 20 05			23	13 10 57
	ME	13 32	15	20		
April 28	E	19 26 23				
	N	19 26 33				
	ME	19 54	17	12		



READINGS FROM SEISMOGRAMS, MAY, 1955.

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
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Additions and corrections to earlier lists.

1954						
July 7	N	00 48 32				
	N	00 50 47				
	E	00 50 50				
	NE	00 51 30				
1955						
April 4	PE	11 24 22			91	11 11 20
	SNE	11 35 22				
April 24	cPE	13 08 36			51.5	12 59 33
	SN	13 15 57				
	NE	13 20 05	delete is			
April 28	cPE	19 16 21			80	19 04 14
	SE	19 26 23				



May 1	iE	10 17 45				
	E	10 23 01				
	iNE	10 31 01				
	ME	10 45	19	20		
May 1	iNE	14 21 17				
	iE	14 26 14				
	ME	14 49	20	10		
May 4	iN	14 51 47				
	iE	14 54 53				
May 6	iN	11 51 08				
	iNE	11 51 22				
	eNE	11 53 29				
	MN	11 54	16	4		
May 8	?E	20 08 29				
	E	20 45 11				
	ME	21 49	12	6		



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DURHAM UNIVERSITY OBSERVATORY
READINGS FROM SEISMOGRAMS. MAY, 1955 continued.

Date	Phase and component	Time G. M. T.	Period Secs.	Amplitude microns	Distance degrees	Time of origin To
May 14	iNE	11 58 12	Artificial			
May 17	?E	15 02 00				
	iPE	15 02 52				
	PPE	15 06 17				
	iE	15 13 07				
	iSNE	15 13 22			85	14 50 20
	ME	15 47	21	76		
May 23	iN	06 23 18				
	iE	06 23 28				
	iNE	06 24 35				
May 25	E	12 29 40				
	N	12 33 17				
	ME	12 35	15	4		
May 26	MN	16 47	9	1		
May 29	NE	13 51 24				
	WE	13 51 39				
	MN	14 17	13	2		
May 29	?N	15 48 55				
	eN	15 53 26				
	iN	16 02 50				
	MN	16 51	18	10		
May 30	cNE	12 41 23				
	cNE	12 42 17				
	cN	12 43 15				
	cNE	12 44 10				
	cN	12 44 23				
	cNE	12 46 20				
	cNE	12 46 25				
	iN	12 48 10				
	iN	12 52 50				
	iNE	12 55 54				
	iNE	13 01 26				
	ME	13 22	26	26		

DURHAM UNIVERSITY OBSERVATORY

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READINGS FROM SEISMOGRAMS, MAY 1955 continued.

Date	Phase and component	Time G. M. T.	Period Secs.	Amplitude microns	Distance degrees	Time of origin To
May 30-31	cNE	23 46 34				
	iNE	23 56 48				
	ME	01 30	23	5		
May 31	iE	18 10 16				
	cNE	18 21 13				
	ME	18 48	16	1		

2 June 1955.



DURHAM UNIVERSITY OBSERVATORY

ADDITIONAL READINGS FROM SEISMOGRAMS for JUNE, 1955

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
June 2	PE	00 30 28				
	SE	00 40 06			75.5	00 18 45
June 2	NE	23 39 18	(On earlier list for June 3, 23 hrs. read June 2, 23 hrs.)			
June 3	eE	11 42 30				
June 15	PN	08 46 06				
June 27	PE	10 24 13				
	iSNE	10 32 17			59	10 14 19

DURHAM UNIVERSITY OBSERVATORY
READINGS FROM SEISMOGRAMS, JUNE, 1955.

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

Position:- latitude  $54^{\circ}46'N$ , longitude  $01^{\circ}35'W$ , 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
June 2	?N MN	00 12 21 00 45	27	26		
June 3	E ME	23 43 51 23 50	10	3		
June 4	E N N MN	17 09 44 17 12 46 17 13 44 17 38	21	4		
June 5	ME	07 08	14	11		
June 5	iPN iSE N ME	15 00 34 15 04 09 15 04 20 15 07	11	16	19	14 56 12
June 8	ME	01 13				
June 14	PN PPE iSNE PSE SSN SSSN MN	06 23 51 06 27 08 06 34 18 06 35 19 06 39 42 06 43 08 06 47	19	12	84	06 11 22
June 14	NE N NE ME	17 44 16 17 54 21 18 05 10 18 14	20	6		
June 17	MN MN	08 57 09 04	17 15	13 8		
June 18	MN MN	16 57 17 05	19 12	1 2		
June 20	N iNE iE MN	12 19 07 12 19 38 12 28 53 12 54	20	25		
June 22	iNE	16 47 35	Artificial			
June 27	?E iNE ?E MN	10 27 41 10 32 17 10 37 10 10 48	15	8		
June 30	iN	16 46 19	Artificial			

2 July 1955.



DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, JULY, 1955.

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. 105 metres.

Date	Phase and component	Time G. M. T.	Period Secs.	Amplitude microns	Distance degrees	Time of origin To
July 3	?NE	13 09 37				
	NE	14 38 13				
July 4	?NE	14 31 14				
	NE	14 40 52				
July 4-5	?N	23 12 54				
	ME	00 02	15	1		
July 6	eN	02 05 45				
	iPNE	02 05 51				
	eN	02 13 41				
	iSN	02 15 06			71	01 54 33
	iPSN	02 15 38				
	PPSE	02 15 50				
	SKSN	02 15 53				
	ScSE	02 15 56				
	MN	02 44	24	15		
July 8	NE	19 19 30				
	NE	19 29 22				
July 9	iNE	10 35 05	Artificial			
July 11	iE	16 34 31	Artificial			
July 11	?E	20 31 14				
	E	20 39 02				
	E	20 39 07				
	ME	20 53	14	3		



DURHAM UNIVERSITY OBSERVATORY
READINGS FROM SEISMOGRAMS, JULY, 1955 continued.

Date	Phase and component	Time G.M.T.	Period Secs.	Amplitude microns	Distance degrees	Time of origin To
July 16	iPNE	07 12 47				
	iE	07 12 49				
	iNE	07 15 23				
	SN	07 16 38			21	07 08 08
	iE	07 16 53				
	iN	07 17 23				
	iE	07 17 28				
	iE	07 17 38				
	iN	07 17 43				
	ME	07 22	18	425		
July 17	?E	22 19 02				
	ME	22 48	15	1		
July 18	iNE	11 30 35	Artificial			
July 21	NE	12 09 10				
	ME	12 11	11	2		
July 23	ME	14 14	16	2		
July 23	ME	15 00	16	2		
July 24	?NE	16 43 19				
	NE	16 43 35				
	ME	17 10	19	5		
	ME	17 18	17	6		
July 27	PN	18 30 03				
	E	18 30 13				
	iSNE	18 39 01				
	ME	19 01	19	25	68	18 19 06
July 30	iNE	10 44 23	Artificial			
July 30	iNE	10 48 18	Artificial			

2 August 1955.



DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, AUGUST, 1955.

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 July list.

16 July Delete S before 07 16 38 and insert S before 07 17 23; correct distance to 26.5 degrees and T<sub>0</sub> to 07 07 13.

21 July Add SKSNE 12 09 36  
SNE 12 10 29

6 Aug. iPKPN 08 50 29  
iE 08 50 35  
ipPKPNE 08 51 59  
iSKKSN 09 00 10

12 Aug. iNE 16 14 02 Artificial

14 Aug. ePKPNE 17 03 40  
ME 18 08 21 2

16 Aug. PKPN 12 05 50  
PPN 12 07 50  
pPPN 12 08 40  
SKSNE 12 12 33  
SKKSN 12 14 35  
N 12 15 44  
N 12 18 43  
SSN 12 24 56  
E 12 25 14  
N 12 27 25  
ME 12 59 17 2

17 Aug. NE 17 10 20 ?Seismic

20 Aug. iNE 10 09 47 Artificial

21 Aug. PNE 17 54 27  
NE 18 01 58  
iSNE 18 03 57 74 17 42 52  
ME 18 37 24 23

23 Aug. eNE 15 53 27  
iNE 15 53 34  
eN 16 01 31  
ME 16 15 16 4

28 Aug. ME 21 00 19 26

29 Aug. iNE 16 12 33 Artificial



DURHAM UNIVERSITY OBSERVATORY

READINGS FROM SEISMOGRAMS, SEPTEMBER, 1955.

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
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Additions and corrections to 1954 December list and 1955 May list.

1954						
Dec. 11	Add	iPE	13 01 14			
		iSN	13 04 39			
1955						
May 8	Add	SE	21 46 34			
May 28	Add	SKSNE	06 44 32			
May 30	Replace by					
		eNE	12 41 23			
		eNE	12 42 17			
		eN	12 43 15			
		ePNE	12 44 10			
		eN	12 44 23			
		eNE	12 46 20			
		eNE	12 46 25			
		iPPN	12 48 10			
		iSKSNE	12 53 48			
		SNE	12 54 33			
		iNE	12 55 54			
		iSSNE	13 01 26			
		ME	13 22	26		26
	Delete	iN	12 52 50			
<hr/>						
Sept. 3		iE	12 48 14			
		iNE	12 57 15			
		iNE	12 57 22			
		iN	12 58 31			
		iN	12 58 37			
		iNE	13 03 47			
		ME	13 21	22		11
Sept. 3		eE	16 43 12			
		iE	16 47 22			
		iNE	16 47 27			
		iE	16 50 37			
		iNE	16 51 42			
		MN	17 23	20		5
Sept. 12		iPNE	06 15 46			
		iPPNE	06 16 50			
		iPcPE	06 18 57			
		iSNE	06 20 44		30	06 09 42
Sept. 17		iNE	10 35 07	Artificial		
Sept. 20		iE	13 48 39			
		NE	13 54 45			
		E	14 10 13			
		N	14 19 55			
		ME	15 11	19		5
Sept. 22		ME	04 15	20		64

DURHAM UNIVERSITY OBSERVATORY
READINGS FROM SEISMOGRAMS, SEPTEMBER, 1955 continued.

Date	Phase and component	Time G. M. T.	Period Secs.	Amplitude microns	Distance degrees	Time of origin To
Sept. 23	iN	15 27 37				
	iPE	15 27 50				
	iE	15 35 35				
	iN	15 36 01				
	iN	15 36 16				
	iE	15 36 34				
	iSNE	15 36 46			68	15 16 52
	MN	15 52	20	90		
Sept. 24	iN	10 45 13				
	MN	11 12	16	12		
	MN	11 19	13	16		
Sept. 25	ME	19 59	16	2		
Sept. 26	iNE	08 49 37				

3 October, 1955.


DURHAM UNIVERSITY OBSERVATORY
READINGS FROM SEISMOGRAMS, OCTOBER, 1955.

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

Position:- latitude  $54^{\circ}46'N$ , longitude  $01^{\circ}35'W$ , 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
October 9	MN	18 48				
October 10	N	08 51 55				
	E	09 28 53				
	MN	10 11	23	130		
October 11	iNE	17 37 33	Artificial			
October 13	NE	18 56 45				
	NE	18 20 30				
	NE	18 26 37				
	ME	18 47	16	3		
October 16	iNE	13 01 29	Artificial			
October 19	ME	10 45	20	12		
October 22	iNE	12 05 22	Artificial			
October 23	iNE	13 20 09	Artificial			

2 November 1955.