

DURHAM UNIVERSITY OBSERVATORY.

SEISMOGRAMS. 1931 July 1 to 1932 June 30.

O-C

July 12	P.	17- 9-43	no S.	
	M.	17-42-40		
July 12	?	22-33-40	S-10s.	
	M.	22-38		
July 15	M.	17-10-50		
July 18	?P.	11-35- 3	Yes	$\Delta = 69^{\circ} 5$
	?S.	11-44-10		
	M.	12-11-50		
July 20	M.	9-48		
Aug. 6	?P.	18-33-49	no S. +14s.	added later. 36 a better reading.
	?S.	18-42- 9	?	$\Delta = 61^{\circ} 3$
	M.	18-53-10		
Aug. 7	eP.	2-31-57	no PP	
	S.	2-41-42	no PS.	$\Delta = 76^{\circ} 4$
	M.	3-16		
Aug. 10	P.	21-28-16		$\Delta = 52^{\circ} 3$
	S.	21-35-40		
	PR ₃ .	21-31-49	PPPP	
Aug. 16	?	2-34		
Aug. 16	P.	11-52- 7		$\Delta = 68^{\circ} 8$
	S.	12- 1-10		
	M.	12-20		
Aug 18	P.	14-30-32		$\Delta = 53^{\circ} 2$
	S.	14-38- 2		
	M.	14-52		
Aug. 24	P.	21-44-51		$\Delta = 40^{\circ} 6$
	S.	21-52+32		
	M.	22-10		
Aug. 26	M.	11-21		
Aug. 27	P.	15-36-50		$\Delta = 55^{\circ} 2$
	S.	15-44-32		
	?	15-45-13	?	
	3R ₁ .	15-48-53	SS	
	?	15-50-14	?	
	M.	16- 0		
	W ₂ .	18- 9		

SEISMOGRAMS. 1931 July 1 to 1932 June 30. (Continued)

Sept. 2	M.	3-54-40		<u>O-C</u>
Sept. 6	P.	8- 6-39		$\Delta^s = 19^{\circ} 6$
	S.	8-10-12		
	M.	8-13		
Sept. 6	M.	15- 6-30		
Sept. 8	M.	20- 3		
Sept. 9	?P.	20-56- 9	No PP	
	?S.	21- 5-51	?	$\Delta \pm 75^{\circ} 8$
	M.	21-28-40		
Sept. 11	?P.	16-32-42	No S + 11s.	
	?S.	16-36-43	?	$\Delta = 22^{\circ} 5$
	M.	16-39-15		
Sept. 16	M.	13-35-20		
Sept. 19	M.	9-35-35		
Sept. 21	M.	3-11		
Sept. 21	M.	11-16-40		
Sept. 25	No time marks on record. Disturbance from about 6-10			
Sept. 26	K.	20-53		
Oct. 3	P ?.	19-33-28 19-33- 8		<u>O-C</u> +36s.
	PP ?.	19-35-23		+15s
	?.	19-35-42		
	S ?.	19-40-47		+58s
	?.	19-48-43		
	?.	19-53-59		
	M ₁ .	19-53-59 20-26		
	M ₂ .	21-23		
	M ₃ .	23-20		
	M ₄ .	24- 6		
Oct. 5	S ?.	22-47- 1		
Oct. 10	P ?.	0-39- <u>59</u>	added later. 35 a better reading	-13s +48s
	?.	0-41-42		
	?.	0- 42-45		
	M.	1-39-10		
Oct. 10	M.	17-19		
Oct. 28	M.	6-30		

SEISMOGRAMS. 1931 July 1 to 1932 June 30. (Continued)

Nov. 1	M.	19-49		0 - c
Nov. 2	?P.	0-44-40		+22s
	?S.	0- 54-20		-5s
	M.	1-16-		$\Delta = 75^{\circ} 4$
Nov. 2	P.	10-15-36		+5s
	S.	10-25-56		+2s
	SR ₂ .	10-35-30 10-35-30		$\Delta = 83^{\circ} 1$
Nov. 5	M.	12-54-35		
Nov. 20	M.	15-36		
Jan. 27	M.	19-50		
Jan. 29	?P.	14- 3-47	No ?	
	?	14-12- 9	PS	
	?	14-16-10 14-16-10	?	
	M.	14-47		
Feb. 3	?	6-35-25	S + 5s.	
	M.	7- 0-30		
Feb. 13	M.	8-22		
Feb. 16	M.	15- 7		
Feb. 23	??P.	0-40-15	No S - 23s	
	?S.	0- 48-38	?	$\Delta = 61^{\circ} 8$
	M.	1- 3-20		
Mar. 14	?P.	22-54-19	Yes.	
	?S.	23- 3-44	Yes.	$\Delta = \begin{matrix} 0s \\ +3s. \end{matrix} 72^{\circ} 8$
Mar. 19	?P.	11-18-13	No PP	
	?S.	11-27-27	No PS	$\Delta = 70^{\circ} 8$
Mar. 26	?P.	0- 8-52	Yes	+4s
	?S.	0-17-15	Yes.	+11s.
	PR ₂ .	0-12-42	PPP	$\Delta = 61^{\circ} 8$
	PS.	0- 17-36	PS.	
	M.	0-33-50		
Mar. 26	M.	11- 4		
April 4	?	19-38-55	S	-5s.
	?	19-41-48		
April 14	?	1-45-41	S	+14s.
	M.	1-48-10		FRS.

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May 14	?P.	13-25-40	
	?S.	13-36-18	$\Delta = 86^{\circ}8$
	PR,	13-29-7	
	M.	14-4	
	PS.	14-37-9	<i>no entry for</i>
	SR,	14-42-14	<i>Durban in I.S.S.</i>
	SR ₂	14-36-30	
May 21	P.	10-22-3	
	?PP.	10-23-0	<i>no entry for</i>
	S.	10-32-6	<i>Durban in I.S.S.</i>
	M.	11-1-10	$\Delta = 79^{\circ}7$
May 25	P.	22-36-32	<i>no quake.</i>
May 26	?	16-28-22	}
	?	16-28-34	
	?	16-45-15	
May 28	?	2-37-40	}
	?	2-44-45	
	M.	3-13-30	
June 3	?	10-49-14	}
	P.	10-49-31	
	S.	10-59-58	
	?	11-3-10	
	M.	11-26	
June 5	M.	9-59	
June 6	?iP.	8-55-42	}
	S.	9-5-21	
	M.	9-25	
June 13	M.	21-55	$\Delta = 84^{\circ}4$
			$\Delta = 75^{\circ}3$

SEISMOGRAMS.

1931 July 1 to 1932 June 30. (Continued)

June 18

- ? . 10-24-35
- P. 10-24-52
- S. 10-33-38
- ?SS. 10-35-30
- PR₃. 10-29-57
- SR₁. 10-38-20
- SE₂. 10-41- 1
- M. 11- 1
- W₂. 12-50
- W₃. 13-42
- W₄. 16-16
- W₅. 16-43
- W₆. 18- 9

$\Delta = 65^{\circ}7$

*no entry for
Duke in I.S.S.*

June 22

- M. 1-30

June 22

- ~~XXXXXXXXXXXX~~
- ~~XXXXXXXXXXXX~~
- P. 13-12- 2
- S. 13-22-10
- M. 13-48

$\Delta = 80^{\circ}7$

June 26

- M. 20-11