

DURHAM UNIVERSITY OBSERVATORY, ENGLAND

Position:- $54^{\circ}46'N$, $01^{\circ}35'W$, height above M.S.L. 103 metres

SEISMOLOGICAL BULLETIN FOR 1973 JANUARY

Instruments:- Wilson-Lamison seismometer free period 1 sec. coupled to G.E. galvanometer free period 3.4 sec., recording vertical component of velocity.

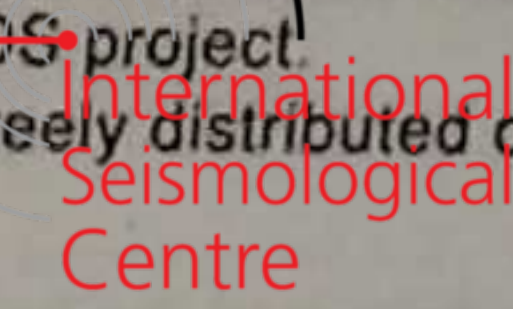
Milne-Shaw free period 12 sec., damping ratio 20:1, magnification 250, recording N and E component displacements.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
4	iPZ ME	08 07 46 08 15		-	$16^{\circ}.5$	H 08 03 49 (BCIS)
5	iPZ iSN ME	01 48 25 51 24 01 54		+ -	17°	H 01 44 31 (BCIS)
5	iPZ iPPZ eSN iSSE ME	05 54 38 55 18 59 02 06 00 02 06 07		+ - + +	25°	H 05 49 20 (BCIS)
5	iSSE ME	14 39 27 14 40		-	164°	H 13 54 29 .02 deep (USGS)
5	iPKPZ	21 47 47		-	$146^{\circ}.5$	H 21 29 12 .09 deep (USGS)
6	eSSE ME	16 33 29 17 20	20		139°	H 15 52 42 (USGS)
7	ePZ iPPZ ME	12 27 20 29 28 12 51		+ +	58°	H 12 17 13 (USGS)
10	ePZ	03 29 19			23°	H 03 24 13 (BCIS)
10	ePKPZ iSKKSN eSSE	11 51 42 12 01 16 12 17		-	134°	H 11 32 27 (USGS)
11	ePZ	02 23 57			$72^{\circ}.5$	H 02 12 27 (USGS)

Refid = 16807

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1973 January, sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
12	iSE	01 00 49		+	82° .5	H 00 37 51
	ME	01 22	30			(USGS)
	ME	01 28	20	22		Mag. 6.3
13	iPKPZ	05 09 03		-	136° .5	H 04 49 46 .01 deep (USGS)
18	ePKPZ	18 02 45			145°	H 17 43 15 .01 deep (USGS)
30	iPZ	21 13 28		+	82° .5	H 21 01 12
	iPcPZ	13 38		-		(USGS)
	iSE	23 50		+		
	iSKKSE	24 10		-		
	iScSE	24 26		+		
	eSSN	30 03				
	ME	21 52	12	165		
	ME	21 55	15	215		
	MZ	21 55	15			
	MN	21 03	15	175		Mag. 7.4
11	iPZ	21 08 06		+	90° .5	H 20 55 53
	iPPZ	11 44		-		.07 deep (USGS)
	iSKSE	17 36		-		
	iSE	18 13		-		
	iXE	19 15		-		
	iXE	21 37		-		
	iXN	22 37		-		
	iSSE	24 33		+		
	ME	21 45	23	15		

7th November, 1973

DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR 1973 FEBRUARY

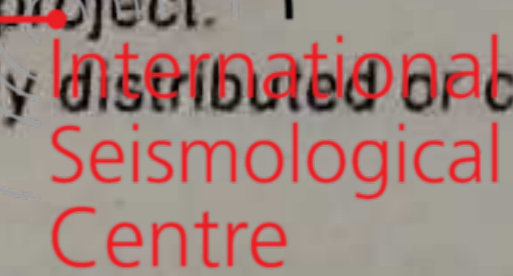
Instruments:- Wilson-Lamison seismometer free period 1 sec. coupled to G.E. galvanometer free period 3.4 sec., recording vertical component of velocity.
Milne-Shaw free period 12 sec., damping ratio 20:1, magnification 250, recording N and E component displacements.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
1	iPZ	05 27 19		+	94° .5	H 05 14 21
	iSKSE	37 33		+		.03 deep (USGS)
	iSE	38 06		-		
	iSSE	44 51		-		
1	iPKPZ	07 46 51		-	142° .5	H 07 27 45 .03 deep (USGS)
6	ePZ	10 48 31			71° .5	H 10 37 10
	iXZ	48 40		+		(USGS)
	iPcPZ	49 01		+		Mag. 7.6
	iPPZ	51 21		-		
	iSN	57 53		+		
	iPSN	58 19		+		
	iSSN	11 02 39		+		
	ME	11 17	20	565		
	ME	11 24	15	415		
	MZ	11 24	15			
7	iPZ	16 17 43		-	71°	H 16 06 25 (USGS)
	ME	16 52				
8	ME	11 29			129°	H 10 09 08 (USGS)
10	iPZ	05 25 00		+	86° .5	H 05 12 18 (USGS)
10	ME	12 45			81° .5	H 11 53 27 (USGS)
10	iPZ	17 07 05		+	74°	H 16 55 34 (USGS)

1973 February sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and directions	Epicentral distance	Notes
14	iPZ	01 02 03		+	89°	H 00 49 16 (USGS)
14	iPKPZ	09 52 10		+	133°	H 09 32 59 (USGS)
14	iPKPZ	16 31 15		-	155° .5	H 16 11 15 (USGS)
16	iPZ	05 11 27		+	46°	H 05 03 00 (BCIS)
19	iXZ ME	09 02 42 09 41	15	- 6	104° .5	H 08 42 52 (USGS)
20	iSE	06 05 46		-	27°	H 05 55 20 (BCIS)
21	iPZ ME	14 57 49 15 33		+	76° .5	H 14 45 57 (USGS)
22	iPZ	00 42 10		+	78° .5	H 00 30 20 .01 deep (USGS)
23	iPZ	04 38 49		+	84°	H 04 26 23 (USGS)
25	iSSE MN	06 12 28 06 42		+	119°	H 05 35 55 (USGS)
25	ePZ iSKSE eSE ME	10 45 13 55 59 56 31 11 40	20	-	98°	H 10 31 40 (USGS)
28	ePZ iPN iPcPN iPPN iSN iPSE iScSN iSSN ME ME MN	06 49 24 49 28 49 50 52 15 58 50 59 16 59 51 07 03 44 07 13 07 24 07 30		- - - - - + - - 36 20 20	73° .5	H 06 37 50 (USGS) Mag. 7.1

7th November, 1973



DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR 1973 MARCH

Instruments:- Wilson-Lamison seismometer free period 1 sec. coupled to G.E. galvanometer free period 3.4 sec., recording vertical component of velocity.
Milne-Shaw free period 12 sec., damping ratio 20:1, magnification 250, recording N and E component displacements.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
	iPZ	02 30 38		-	74°	H 02 19 03 (USGS)
4	iPZ eSN MN	18 08 55 18 04 18 48	14	-	70°	H 17 57 43 (USGS)
6	ME	23 07			79°	H 22 19 33 (USGS)
9	eSKSE iSSE ME	10 31 44 40 46 11 15	20	+	106°	H 10 06 38 (USGS) Mag. 6.4
12	ME	13 45	20		42°	H 13 21 49 (USGS)
12	iPZ iSN iXN eSSN MN	19 50 47 20 00 09 01 15 05 34 20 29	18	- - - 7	73°	H 19 39 21 (USGS) Mag. 5.8
16	iPPZ iSKSN iSKKSE iSSE ME MN	01 10 49 16 56 17 53 26 07 01 54 01 59	22 20	- + + + 14 10	109°	H 00 51 47 (USGS) Mag. 6.2
17	iPKPZ iPPZ	05 16 25 19 47		- -	144°	H 04 57 13 .03 deep (USGS)
17	ePZ iPPZ	08 44 42 48 35		- +	97° .5	H 08 30 52 (USGS)

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1973 March, sheet 2

Date	Phase and component	Time	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
7	iPE	15 54 38		-	103°	H 15 40 48
	eSN	16 06 26		+		(USGS)
8	ePPN	11 25 15			109°	H 11 06 15
	iSKSE	31 16		+		(USGS)
	iSKKSE	32 10		+		
	iSE	32 46		+		
	iPSE	34 24		-		
	ME	12 09	25	27		
	ME	12 12	20	19		Mag. 6.5
9	iPZ	11 52 28		-	73°	H 11 41 08
	eSN	12 01 43				(USGS)
	eSKSN	02 13				
	iSSN	02 25		+		
10	iPZ	16 30 29		-	95°	H 16 17 31
	iSE	41 22		+		.03 deep (USGS)
11	iPZ	19 28 25		+	74°	H 19 17 03
	eSE	38 14				(USGS)
	ME	20 09	26			
12	ePE	02 35 22			73°	H 02 24 21
						(USGS)
13	iPZ	14 10 37		-	60°	H 14 00 43
						(USGS)
	iPZ	07 07 10		+	74°	H 06 55 33
	iPPZ	09 42		-		(USGS)
	iSN	16 47		+		
	eSKSN	17 07				
	eSSN	21 35				Mag. 5.2
	MN	07 39	20	2		
14	iPZ	19 55 19		+	86°.5	H 19 42 39
	iXN	20 00 31		-		(USGS)
	eSE	05 58				
	eSSE	11 40				
	ME	20 39	14	6		
15	ME	01 31			88°	H 00 34 37
						(USGS)
16	iPZ	09 07 46		-	74°	H 08 56 15
						(USGS)
17	eSE	23 04 17			79°	H 22 42 03
						(USGS)
						(USGS)
						(USGS)

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1973 March, sheet 3

Date	Phase and component	Time	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
26	iPKPZ	05 28 30		+	146°.5	H 05 09 51
	ipPKPZ	31 12		+		.09 deep (USGS)
26	iPZ	08 07 42		+	52°	H 07 58 43
						(USGS)
27	iPZ	12 43 30		-	72°	H 12 32 05
						(USGS)
28	ME	14 16	22		55°	H 13 42 07
						(USGS)
28	iSE	24 19 30		-	89°	H 23 55 47
	MN	24 46	20	10		(USGS)
						Mag. 6.1

March November, 1973

9
p
6
p

DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR 1973 APRIL

Instruments:- Wilson-Lamison seismometer free period 1 sec. coupled to G.E. galvanometer free period 3.4 sec., recording vertical component of velocity.

Milne-Shaw free period 12 sec., damping ratio 20:1, magnification 250, recording N and E component displacements.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
1	ME	07 51			55°	H 07 12 37 (USGS)
3	iPZ	14 05 38		+	76°	H 13 54 03 .02 deep (USGS)
	iSN	15 10		+		
	iSSN	19 53		-		
6	iPZ	14 19 42		-	27°	H 14 14 00 (BCIS)
6	iPKPZ	19 01 19		-	145°	H 18 42 11 .03 deep (USGS)
7	iPZ	03 13 37		+	86°	H 03 00 59 (USGS)
	iPcPZ	13 47		-		
	iSE	24 03		+		
	iScSE	24 18		+		
	MN	03 45	30	43		
	MN	03 52	20	28		Mag. 6.5
7	iSKSN	12 48 18		-	113°	H 12 22 47 (USGS)
	iSSE	57 58		+		
	ME	13 12	40	35		
7	iPZ	19 34 38		+	20°	H 19 30 09 (BCIS)
8	iPKPZ	13 00 29		+	140°	H 12 41 02 (USGS)
	iXN	04 17		+		
	MN	14 04	20	4		Mag. 5.9
8	iPZ	22 06 36		+	76°	H 21 54 59 .01 deep (USGS)
8	ePKPZ	21 08 17			149°	H 20 48 46 .01 deep (USGS)
	iPKPZ	08 27		-		

1973 April, sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and directions	Epicentral distance	Notes
12	iPZ	05 15 15		+	78°	H 05 03 19 .01 deep (USGS)
12	iPZ	14 00 41		-	73°	H 13 49 16 (USGS)
	iPcPZ	01 03		+		
	iSN	10 05		-		
	iSKSN	10 43		+		
	iXN	11 03		+		
	MN	14 39	20	12		Mag. 6.0
13	iPZ	08 16 45		+	20°	H 08 12 16 (BCIS)
	eSN	20 23				
13	iPKPZ	20 12 39		+	145°	H 19 54 15 .10 deep (USGS)
14	ePZ	08 45 41			77°	H 08 34 00 (USGS)
	iPcPZ	46 06		-		
	iXZ	46 36		-		
	iXZ	46 51		+		
	iXZ	47 17		-		
	eSN	55 42				
	iScSE	56 15		+		
	eSSE	09 00 22				
	ME	09 22	20	29		Mag. 6.5
15	iPKPZ	06 29 22		-	146°	H 06 10 51 .09 deep (USGS)
16	ePZ	00 11 28			26°	H 00 05 45 (BCIS)
16	iPZ	14 59 41		-	74°	H 14 48 03 (USGS)
17	iPKPZ	12 53 11		-	118°	H 12 34 27 (USGS)
	iSKSE	13 00 17		-		
	eSSN	11 01				
	ME	13 37	24	45		
	ME	14 58	20	4		Mag. 6.9
17	iPZ	22 21 17		-	73°	H 22 09 49 (USGS)
	iSN	30 42		-		
	iSKSN	31 18		+		
	MN	22 59	20			
19	iPE	04 41 20		+	47°	H 04 33 00 (BCIS)
	iSE	48 16		+		

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1973 April, sheet 3

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and directions	Epicentral distance	Notes
24	iPZ	21 42 06		+	78°	H 21 30 10
	iPcPZ	42 19		+		(USGS)
	IXZ	43 26		-		
	iPPZ	45 04		+		
	iSE	52 02		-		
	iSKSE	52 20		-		
	iScSE	52 40		-		
	ME	22 16	19	7		Mag. 5.9
25	iSN	03 32 50		-	51°	H 03 16 52 .02 deep (USGS)
25	ePZ	14 33 53		-	87°	H 14 21 13
	eSKSE	44 05				(USGS)
	iSN	44 21		-		
	eSSE	50 07				
25	iPPZ	21 54 38		-	116°	H 21 34 38
	eSKSN	22 00 25				(USGS)
	iSKKSE	02 04		+		
	eSSE	10 58				
	MN	22 39	20			
26	iPZ	07 54 58		-	78°	H 07 43 00
	eSN	08 04 57				(USGS)
26	iPZ	17 26 32		+	72°.5	H 17 15 00
	eSE	36 00				(USGS)
26	ePZ	20 40 35			102°	H 20 26 28
	ePPZ	44 39				(USGS)
	eSKSN	51 04				
	eSE	52 02				
	iSSE	59 06		+		
	MN	21 22	20	5		Mag. 5.9
28	iPZ	12 33 37		-	84°.5	H 12 21 12
	iSE	44 33		-		(USGS)
29	iPKPZ	18 56 20		-	145°	H 18 37 25 .05 deep (USGS)

20th November, 1973

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Seismological
Centre

DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR 1973 MAY

Instruments:- Wilson-Lamison seismometer free period 1 sec. coupled to G.E. galvanometer free period 3.4 sec., recording vertical component of velocity.
Milne-Shaw free period 12 sec., damping ratio 20:1, magnification 250, recording N and E component displacements.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
2	iPZ	23 21 46		-	20°	H 23 17 12 (USGS)
	ME	12 29	25		109°	H 11 27 13 (USGS)
5	iPE	04 04 47		+	83°	H 03 52 26 (USGS)
6	iSN	14 59 10		+	75°	H 14 39 28 .07 deep (USGS)
6	ePZ	15 22 48			70°.5	H 15 11 38 (USGS)
8	eSE	08 09 44			77°	H 07 49 00 .01 deep (USGS)
11	iPPZ	11 04 23		-	110°	H 10 45 25 (USGS)
	eSKKSE	11 10				
	iSSN	19 12		-		
11	eSN	14 07 24			46°	H 13 52 34 (BCIS)
12	iPZ	22 33 59		+	51°.5	H 22 25 04 (USGS)
	eSE	41 15				
13	iPZ	01 42 15		+	56°.5	H 01 32 36 (USGS)
	eSN	50 11				
14	iPKPZ	17 30 34		-	142°	H 17 11 14 (USGS)
14	iPKPZ	21 34 34		+	147°	H 21 15 48 .07 deep (USGS)

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1973 May sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
19	ePZ eSN	18 31 28 41 33			92°.5	H 18 18 31 (USGS)
22	iPKPZ	17 25 04		+	146°	H 17 05 26 (USGS)
24	ePN eSN	18 58 36 19 08 14			74°	H 18 47 12 (USGS)
24	iPZ	19 46 29		+	77°	H 19 34 13 .01 deep (USGS)
26	iPZ eSN eSKSN ME	12 31 10 40 40 41 15 13 15	20	+	74°	H 12 19 34 (USGS)
27	iPKPZ	06 57 06		+	146°.5	H 06 38 13 .06 deep (USGS)
28	ePZ eSKSE eSN	20 40 30 51 13 51 30			92°	H 20 27 11 (USGS)
29	iPZ eSE iSKSN eSSN MN	01 58 19 02 07 54 08 06 12 36 02 41	20	+	75°	H 01 46 45 (USGS) Mag. 5.3
29	iPZ iSN iSKSN ME	06 25 36 34 50 35 36 06 59	16	- + -	70°.5	H 06 14 22 (USGS)
30	iPZ iSE	04 50 24 05 00 35		- +	84°.5	H 04 38 02 .01 deep (USGS)
31	iPZ iPcPZ	05 51 22 51 39		+	78°.5	H 05 39 19 .01 deep (USGS)
31	ePZ iPZ iXZ iSE iSKSN iScSE eSSN	23 51 31 51 44 52 13 24 01 15 01 23 02 07 05 59		- - - - + +	73°.5	H 23 39 57 (USGS)

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Seismological Centre

DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR 1973 JUNE

Instruments:- Wilson-Lamison seismometer free period 1 sec. coupled to G.E. galvanometer free period 3.4 sec., recording vertical component of velocity.
Milne-Shaw free period 12 sec., damping ratio 20:1, magnification 250, recording N and E component displacements.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
1	eSSE MN	08 02 11 08 44	20	5	132°.5	H 07 22 57 (USGS) Mag. 6.0
2	ePZ iXZ eSE MN	24 06 21 06 29 13 59 24 26		-	53°	H 23 57 04 (USGS)
5	ePKPZ iPKPZ ME ME ME	03 32 07 32 16 04 34 04 40 04 50		-	141°.5	H 03 12 26 (USGS)
6	iPZ iPPZ	13 11 30 14 10		+	72°.5	H 13 00 06 (USGS)
6	iPZ	21 15 39		-	18°	H 21 11 20 (BCIS)
7	iPZ eSE ME	18 44 37 54 25 19 21	20	+	79°	H 18 32 4 (USGS) Mag. 6.1
7	iPZ iPcPZ eSE iScSE iSSE ME	18 46 43 46 52 56 31 57 02 19 02 05 19 25		+	79°	H 18 34 4 (USGS)
9	iPKPZ iXZ iPKSN eSSE MN	08 40 36 40 57 44 05 09 01 25 09 40	20	+	133°.5	H 08 21 2 (USGS)
9	ePN	22 57 15			71°.5	H 22 45 5 (USGS)

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
12	eSE	07 04 41			71°	H 06 44 02 (USGS)
13	iPZ	00 32 21		-	76°	H 00 20 49 .02 deep (USGS)
14	iPKPZ	03 50 05		-	147°	H 03 31 31 .09 deep (USGS)
14	iPKPZ	11 20 17		-	114°	H 11 02 47 .09 deep (USGS)
15	iPZ	01 17 09		-	44°	H 01 09 04 (USGS)
15	iPZ	11 32 09		-	71°	H 11 20 51 (USGS)
	iPcPZ	32 31		-		
	iXZ	32 38		-		
	iXE	41 41		+		
	ME	12 07	19	4		
	MN	12 14	20	6		Mag. 5.7
15	ePZ	21 20 55			71°	H 21 09 42 (USGS)
15	iPKPZ	23 24 41		-	151°	H 23 04 59 .01 deep (USGS)
	iPKPZ	24 49		-		
16	iPZ	14 54 58		-	70°	H 14 43 47 (USGS)
	iSE	15 04 07		+		
	ME	15 27				
17	iPZ	04 06 59			78°.5	H 03 55 03 (USGS)
	iPcPZ	07 15		-		
	iPPZ	10 08		+		
	iSN	16 58		+		
	iSSN	22 01		-		
	iPKPPKZ	34 30		-		
	MN	04 46	20	320		Mag. 7.5
	MZ	04 46	20			
	ME	07 00	20	12		
	ME	08 36	20			
17	ePZ	04 21 13			79°	H 04 09 12 (USGS)
17	iPZ	05 24 26		+	79°	H 05 12 09 (USGS)
17	ePZ	06 04 10			79°	H 05 52 11 (USGS)

1973 June sheet 3

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
17	ePZ	12 26 17			78°	H 12 14 26 (USGS)
17	ePZ	12 36 38			79°	H 12 24 36 (USGS)
17	iPZ	13 45 27		+	78°.5	H 13 33 28 (USGS)
17	ePZ	13 55 11			79°	H 13 43 09 (USGS)
	eSE	14 05 11				
	MN	14 36	17			
17	iPZ	19 07 39		-	79°	H 18 55 40 (USGS)
	eSE	17 37				
17	ePZ	19 15 37			79°	H 19 03 35 (USGS)
17	ePZ	20 49 57			79°	H 20 37 57 (USGS)
	iSN	59 52		+		
	eSSE	21 04 49				
	MN	21 21	30	13		
	ME	21 28	20	12		
	MN	21 31	18	20		Mag. 6.3
18	ePZ	05 49 37			79°	H 05 37 36 (USGS)
18	iPZ	10 28 54		-	72°.5	H 10 17 26 (USGS)
18	ePZ	17 57 47			79°	H 17 45 44 (USGS)
	eSE	18 07 45				
	eSKSN	08 10				
	MN	18 36	15			
19	ePZ	03 06 11			79°	H 02 54 10 (USGS)
	eSE	16 15				
19	ePPN	03 53 17			108°	H 03 34 19 (USGS)
	iSKSN	59 23		+		
	MN	04 43	20	6		Mag. 6.0
22	iPZ	06 19 39		+	79°	H 06 07 36 (USGS)
	iSN	29 33		-		
	iSKSE	29 50		+		
	iScSE	30 07		+		
	ME	06 51	24	9		
	MN	07 00	19	11		Mag. 6.0

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1973 June sheet 4

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
24	iPZ	02 55 24		+	79°	H 02 43 25 (USGS)
	iPcPZ	55 41		+		
	iPPE	58 31		+		
	iSN	03 05 16		-		
	iSSE	10 31		+		
	MN	03 36	20	310		
	MZ	03 36	20			
	MN	05 54	20	5		Mag. 7.5
24	iPZ	03 16 16		-	79°	H 03 04 19 (USGS)
24	iPZ	03 40 42		+	78° .5	H 03 28 39 (USGS)
24	ePZ	05 19 46			79°	H 05 07 47 (USGS)
24	iPZ	11 05 52		+	79°	H 10 53 54 (USGS)
24	ePZ	18 53 51			79°	H 18 41 49 (USGS)
24	iPZ	20 12 15		+	79°	H 20 00 16 (USGS)
25	eSKSE	07 43 21			92°	H 07 19 46 (USGS)
	ME	08 19	17			
26	iPZ	18 14 25		+	79°	H 18 02 24 (USGS)
	iPcPZ	14 38		+		
	iSN	24 24		+		
	iSKSN	24 40		+		
	MN	18 55	20	6		Mag. 5.8
26	ePZ	22 44 00			79°	H 22 32 00 (USGS)
	iXZ	44 08		+		
	iPcPZ	44 15		-		
	eSN	53 54				
	iSSE	59 11		+		
	ME	23 16	25	50		
	ME	23 24	19	38		Mag. 6.6
	MZ	23 25	15			
26	iPZ	22 53 36		-	79°	H 22 41 35 (USGS)
26	iPZ	22 57 32		+	79°	H 22 45 33 (USGS)
27	iPZ	01 53 16		+	79°	H 01 41 16 (USGS)

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1973 June sheet 5

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
28	eSKSE	11 13 08			89°	H 10 49 33 (USGS)
	eSE	13 26				
	MN	11 39	20			
29	iPZ	03 38 49		+	79°	H 03 26 53 (USGS)
	iSN	48 38		-		
29	ePE	08 07 36			83°	H 07 55 12 (USGS)
	eSE	18 01				
	eSKSE	18 10				
30	iPKPZ	05 42 43		-	145°	H 05 24 10 .09 deep (USGS)

1st April, 1974

International
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DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR 1973 JULY

Instruments:- Wilson-Lamison seismometer free period 1 sec. coupled to G.E. galvanometer free period 3.4 sec., recording vertical component of velocity.
Milne-Shaw free period 12 sec., damping ratio 20:1, magnification 250, recording N and E component displacements.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
1	iPZ	13 43 55		+	62°	H 13 33 35
	iPPZ	46 21		-		(USGS)
	iSN	52 28		+		
	iScSN	53 52		+		
	iSSN	56 39		-		
	ME	14 12	15	80		Mag. 6.7
	ME	16 39	15			
2	ePZ	06 03 33			78°.5	H 05 51 31 (USGS)
	ePZ	04 11 53			80°.5	H 03 59 54
3	iSZ	21 54		+		.01 deep (USGS)
	ME	04 41				
	iSKSN	07 01 40		-	99°.5	H 06 37 34 (USGS)
3	iSE	02 54		-		
	iPZ	07 17 27		+	100°	H 07 03 44 (USGS)
3	ePPN	21 28				
	eSKSE	28 06				
	iSN	29 00		+		
	iSSN	35 55		+		
	MN	08 01	20	25		Mag. 6.5
	ME	08 09	18	25		
	3	iPZ	17 09 55		+	62°
iPPN		12 14		-		(USGS)
eSN		18 27				
iScSN		19 55		-		
iSSN		22 36		-		
ME		17 38	16	16		Mag. 6.0
5		ePZ	01 10 43			78°
	eSE	20 32				(USGS)
	eSKSE	20 58				
5	ePN	07 59 26			62°	H 07 49 05
	ePN	07 59 26			62°	H 07 49 05

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1973 July sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
6	ePZ	22 59 55			98°.5	H 22 46 16 (USGS)
	ePPZ	23 03 54				
	eSKSE	10 31				
	eSSE	18 18				
	ME	23 40	20	10		Mag. 6.1
	ME	23 50	16	16		
	iPZ	09 41 18		+	101°	H 09 27 31 (USGS)
	eSKSE	52 08				
	eSE	53 23				
	ME	10 33	19			
6	iPZ	01 03 31		+	101°	H 00 49 51 (USGS)
	iSKSE	13 54		-		
	eSE	15 11				
8	iPZ	04 14 52		-	74°	H 04 03 35
	ipPZ	15 33		-		.02 deep (USGS)
9	iPZ	16 32 13		-	84°	H 16 19 47 (USGS)
	iPcPZ	32 29		-		
	iSE	42 27		-		
	eSSN	48 03				
10	iPKPZ	04 21 56		-	149°	H 04 02 19
	ipPKPZ	22 24		-		.01 deep (USGS)
10	iPKPZ	07 19 22		-	149°	H 06 59 44
	ipPKPZ	19 32		-		.01 deep (USGS)
12	ePZ	13 59 05			101°	H 13 45 30 (USGS)
	eSKSN	14 10 01				
	eSN	11 03				
	MN	14 46	18			
12	eSKSN	16 06 11			101°	H 15 41 39 (USGS)
	eSN	07 07				
	MN	16 49	17			
13	ePN	03 10 25			67°	H 02 59 39 (USGS)
	eSN	19 11				
	ME	03 40	12			
14	iPZ	05 01 33		-	61°	H 04 51 21 (USGS)
	iPPZ	03 54		+		
	iSE	09 52		+		
	iPSE	10 21		-		

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1973 July sheet 3

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
14	ePZ	12 43 20			23°	H 12 38 19 (BCIS)
	eSE	47 30				
	ME	12 52				
14	iPZ	13 49 42		+	61°	H 13 39 30 (USGS)
	iPcPZ	50 26		-		
	eSE	58 09				
	ME	14 20	12	6		
16	ePE	18 25 10			81°	H 18 12 57 (USGS)
	ePcPE	25 26				
	ePPE	28 18				
	iSN	35 34		-		
	eScSE	35 38				
	ME	19 01	20			
18	iPZ	15 34 32		-	92°	H 15 21 23 .02 deep (USGS)
	eSKSE	44 36				
	eSE	45 07				
19	iPKPZ	06 02 53		-	143°	H 05 44 26 .09 deep (USGS)
20	ePE	08 25 20			83°	H 08 12 53 (USGS)
	iSN	35 38		+		
	iScSE	36 03		+		
	MN	09 01	26	6		Mag. 5.8
20	iPZ	23 33 16		-	25°	H 23 27 48 (BCIS)
	eSE	37 35				
21	iPKPZ	04 38 15		-	150°	H 04 19 17 .06 deep (USGS)
	iXZ	38 20		+		
	iPKPZ	38 28		+		
	iXZ	39 22		-		
	ipPKPZ	40 05		-		
	eSSE	05 00 35				
	esSSE	03 18				
23	iPZ	01 31 29		-	47°	H 01 23 00 (BCIS)
	iPcPZ	33 05		-		
	iPPZ	33 19		+		
23	eSE	10 25 16			87°	H 10 02 05 (USGS)
	MN	11 00	15			
25	ePPN	06 30 13			132°	H 06 08 39 (USGS)
	iPKSN	31 21		+		
	isSE	47 22		-		

1973 July sheet 4

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
27	iPZ	20 35 25		-	74°	H 20 23 51 (USGS)
	ME	20 53				
28	iPZ	03 52 25		-	79°	H 03 41 13 (USGS)
	ME	04 30	18			
28	ME	15 18	16		80°	H 14 28 44 (USGS)
28	eSN	18 17 20			89°	H 17 53 32 (USGS)
	ME	18 43	20	5		Mag. 5.8
28	iPZ	20 17 03		+	72°	H 20 06 36 .09 deep (USGS)
	iSN	25 40		+		
28	iPZ	22 31 12		+	92°	H 22 18 15 (USGS)
29	ePZ	15 03 02			78°	H 14 51 03 (USGS)
29	iPZ	16 28 58		+	91°	H 16 15 50 .01 deep (USGS)
	eSKSE	39 20				
	eSN	39 35				
31	eSKKSN	06 07 38			110°	H 05 41 04 (USGS)
	ePSE	10 00				
	eSSN	16 11				
	ME	06 45	20			
31	ePZ	11 05 03			101°	H 10 51 13 (USGS)
	ePPE	09 11				
	iSKSE	15 46		-		
	iSN	16 47		+		
	iPSE	18 18		-		
	iXE	29 02		-		
	ME	11 59	20	17		Mag. 6.4
31	ePPZ	21 06 26			132°	H 20 44 52 (USGS)
	iXN	07 33		-		
	eSSE	24 12				
	ME	22 05	20			

25th April, 1974

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DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR 1973 AUGUST

Instruments:- Wilson-Lamison seismometer free period 1 sec. coupled to G.E. galvanometer free period 3.4 sec., recording vertical component of velocity.

Milne-Shaw free period 12 sec.; damping ratio 20:1, magnification 250, recording N and E component displacements.

Table with columns: Date, Phase and component, Time G.M.T., Period sec, Amplitude microns and direction, Epicentral distance, Notes. Contains multiple rows of seismic event data.

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1973 August, sheet 2

Table with columns: Date, Phase and component, Time G.M.T., Period sec, Amplitude microns and direction, Epicentral distance, Notes. Contains multiple rows of seismic event data.

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1973 August, sheet 3

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
16	iPN	12 28 35	-	-	74°	H 12 17 00 (USGS)
	eSE	38 06				
	eSSN	43 05				
	ME	13 08	17			
	ME	13 24	12			
17	eSKSE	02 05 33			89°	H 01 42 12 (USGS)
	eSE	05 47				
	eSSN	11 29				
	ME	02 32	21	5		Mag. 5.8
18	ePZ	02 20 23			77°	H 02 08 32 (USGS)
18	ePE	08 39 25			98° .5	H 08 25 44 (USGS)
	iSKSE	49 59		+		
	iSE	50 33		+		
	ePPE	43 25				
	ME	09 29	20	20		Mag. 6.5
20	iPZ	15 23 04		-	20°	H 15 18 29 (BCIS)
	eSE	26 37				
	eSSE	27 20				
22	iPKPZ	06 59 31		-	158°	H 06 39 21 (USGS)
	iXZ	07 00 18		-		
	ME	08 09	20	2		Mag. 5.7
22	iPZ	18 25 23		-	66° .5	H 18 14 37 (USGS)
	iPcPZ	25 45		-		
	iPPZ	27 47		-		
	eSE	34 11				
	eScSE	35 16				
23	iPKPZ	17 14 21		-	126°	H 16 55 26
	ipPKPZ	14 23		-		.01 deep (USGS)
	eSSN	33 32				
23	iPZ	24 02 59		+	83°	H 23 50 32 (USGS)
	iSN	13 14		-		
	eSSE	19 02				
	ME	24 43	19			
24	ePZ	02 14 37			47° .5	H 02 06 05 (BCIS)
	eSN	21 26				
24	iPZ	10 55 20		+	19°	H 10 51 00 (USGS)
	ME	11 02	10			
24	iPKPZ	20 37 26		-	129°	H 20 18 21 (USGS)

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1973 August, sheet 4

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
25	ePZ	14 52 09			89° .5	H 14 39 15 (USGS)
	eSN	15 03 09				
25	iPZ	15 06 56		-	49° .5	H 14 58 16
	ipPZ	07 04		+		.01 deep (BCIS)
	eSE	14 08				
	ME	15 38				
26	iPKPZ	21 47 31		-	154° .5	H 21 27 34 (USGS)
26	iPZ	21 58 42		-	74° .5	H 21 47 12 (USGS)
	eSE	22 08 20				
27	iPKPZ	14 41 31		-	143° .5	H 14 23 06 .09 deep (USGS)
28	iPZ	10 02 32		+	78°	H 09 50 40
	ipPZ	03 00		-		.01 deep (USGS)
	iPPZ	05 31		-		
	iSN	12 22		+		
	iScSE	12 53		-		
	iPSE	13 05		-		
	ME	10 36	20	35		Mag. 6.5
28	iPZ	15 11 40		-	56° .5	H 15 01 59 (USGS)
	iPcPN	12 37		+		
	iSE	19 46		+		
	iScSE	21 52		+		
	iXE	25 39		+		
	ME	15 37	14	103		Mag. 6.8
	MZ	14 41	10			
30	MN	07 58	18		33° .5	H 07 36 24 (USGS)
30	ePZ	18 36 56			73°	H 18 25 43
	iPcPZ	37 00		-		.02 deep (USGS)
	ipPZ	37 40		+		
	iSE	46 11		+		
	iSKSN	46 51		+		
	iSN	47 23		+		
	ME	19 05				
30	ePZ	20 02 20			82°	H 19 50 03 (USGS)
	iPZ	20 02 22		+		
	iPcPZ	02 34		-		
	ME	20 47	15			

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DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR 1973 SEPTEMBER

Instruments:- Wilson-Lamison seismometer free period 1 sec. coupled to G.E. galvanometer free period 3.4 sec., recording vertical component of velocity.
Milne-Shaw free period 12 sec., damping ratio 20:1 magnification 250, recording N and E component displacements.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
3	iPKPZ	03 42 19	.	+	146°	H 03 23 47 .09 deep (USGS)
4	iPZ	17 37 01		+	79° .5	H 17 24 59 (USGS)
	iPPZ	40 15		-		
	eSE	47 07				
	ME	18 13	16			
5	iPKPZ	04 03 13		-	145°	H 03 44 21 .06 deep (USGS)
5	ePZ	13 15 30			81° .5	H 13 03 14 (USGS)
	eSE	25 41				
	ME	13 54	20	11		Mag. 6.0
6	ePZ	11 09 54			61° .5	H 10 59 37 (USGS)
	eSE	18 16				
8	ePZ	07 36 06			62° .5	H 07 25 44 (USGS)
	eSN	44 36				
	eXN	51 29				
	MN	08 09	12	6		
8	iPZ	07 59 19		+	87°	H 07 46 53 .02 deep (USGS)
9	iPZ	02 53 54		-	71°	H 02 42 33 (USGS)
9	ePZ	18 38 05			81° .5	H 18 25 49 (USGS)
	ePPZ	41 24				
	iSE	48 15		+		
	eSKSN	48 32				
	eSSE	53 27				
						Mag. 6.0

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International
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Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
(contd. from first sheet)						
10	iXE	07 25		-		
	iSSE	08 08		+		
11	iPZ	23 31 23		+	86°	H 23 18 51
	iPcPZ	31 32		+		.02 deep
	ipPZ	32 09		+		(USGS)
	eSKSN	41 25				
	iSN	41 38		+		
	iScSN	41 53		-		
	esSN	42 45				
	eSSE	48 45				
	MN	24 10	18	4		Mag. 5.7
12	iPZ	07 05 58			29° .5	H 07 00 00 (BCIS)
	iPPE	07 05		-		
	iPPPE	07 45		+		
	iPcPZ	09 06		-		
	iSE	11 15		+		
	iSSE	12 15		-		
	iSSSE	12 46		+		
	iScPZ	12 49		-		
	iScSN	16 15		+		
15	iPZ	01 49 17		+	14°	H 01 46 00 (BCIS)
	iPPZ	49 26		-		
	eXE	52 22		+		
	MN	01 55	12	13		
15	iPZ	04 37 48		-	86° .5	H 04 28 09 (USGS)
16	eSE	05 14 42			78°	H 04 52 51 (USGS)
16	iPZ	21 30 12		+	14°	H 21 26 56 (BCIS)
	eSN	33 05				
	iSSE	33 18		-		
	ME	21 36	11	14		
17	iPKPZ	07 41 09		-	142°	H 07 21 47 .02 deep (USGS)
18	iPZ	13 10 57		-	87°	H 12 58 25
	iPcPE	11 10		-		.02 deep
	iSSE	27 23		+		(USGS)
18	ePKPZ	13 52 42			152°	H 13 32 52 (USGS)
	iPPE	56 29		-		
	iXE	14 06 14		-		
	iSSE	16 58		-		
	ME	14 58	20	5		Mag. 6.0

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1973 SEPTEMBER 1973

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
01	ePE iPPZ MN	07 27 16 31 06 08 15			99° .5	H 07 13 34 (USGS)
01	iPZ iPPZ iSKSN iSSE	07 45 06 48 55 55 18 08 03 17		+ - + +	99° .5	H 07 31 03 (USGS)
01	iPKPZ iPKPZ	19 47 11 47 24		+ -	151°	H 19 28 29 .10 deep (USGS)
02	eSE	02 41 56			42°	H 02 27 42 (USGS)
02	ePE iSE MN	03 05 11 11 33 03 20	17	- 4	42°	H 02 57 19 (USGS) Mag. 4.6
02	iPE	19 39 15		-	73°	H 19 27 49 (USGS)
03	MN	13 23	20		101° .5	H 12 25 52 (USGS)
05	iPKPZ ME MN ME	16 38 16 17 45 17 57 18 09	22 20 20	+ 10	161° .5	H 16 17 28 (USGS) Mag. 6.3
06	ME	10 47			101° .5	H 09 46 49 (USGS)
07	iPZ iXZ iPPZ	07 05 57 06 02 06 49		+ - -	28° .5	H 07 00 00 (BCIS)
07	iPZ iSN iSSE ME	12 33 09 36 29 37 11 12 39	15	- - - 8	18°	H 12 29 00 (BCIS)
09	iPZ iPcPZ iPPZ iPPZ iSN iScSN iSPN iSSE iXE iSSE	00 54 47 55 03 56 55 58 01 01 03 37 03 58 04 22 06 17 07 21 08 48		+ - + - + + + + +	75° .5	H 00 44 01 .09 deep (USGS)

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DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR 1973 OCTOBER

Instruments:- Wilson-Lamison seismometer free period 1 sec. coupled to G.E. galvanometer free period 3.4 sec., recording vertical component of velocity.

Milne-Shaw free period 12 sec., damping ratio 20:1 magnification 250, recording N and E component displacements.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
1	ePZ eSN ME	14 29 04 39 12 15 09	18		84°	H 14 16 23 (USGS) Mag. 5.3
2	MN	03 56	17		88°	H 02 59 42 (USGS)
3	iPKPZ	08 58 02			147°	H 08 38 34 .01 deep (USGS)
4	iPKPZ ipPKPZ	18 18 19 20 47		+ -	146° .5	H 17 59 48 .10 deep (USGS)
5	iPZ iPPE iSKSE iSN ME MZ ME	05 59 46 06 04 10 10 23 11 40 06 49 06 53 06 55	20	- - - + 33 18 36	106°	H 05 45 27 (USGS) Mag. 6.7
5	ME	08 14	19	5	106°	H 07 07 34 (USGS) Mag. 5.9
6	iPKPZ eXZ ePPZ eXE iXN eXZ iSSE iXE iXE ME ME	15 26 25 26 32 27 22 35 20 37 22 37 28 43 32 47 57 54 52 16 01 16 12 16 17	18 18 18	- + + + + + 45 18 20	116° .5	H 15 07 37 (USGS) Mag. 6.6

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1973 October sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
9	ePPE	08 19 23			138° .5	H 07 57 31
	iSKKSN	26 22		+		(USGS)
	iPSN	30 18		+		
	ME	09 17	20	5		Mag. 6.0
11	iPZ	02 17 41		-	58° .5	H 02 07 41
	iSSN	29 35		-		(USGS)
	MN	02 36	10	8		
11	iPZ	02 17 53		-	58° .5	H 02 07 53
	eSN	25 58				(USGS)
12	iPZ	03 03 14		-	51°	H 02 54 08
	iSE	10 31		+		(USGS)
12	iSE	06 15 16		+	71° .5	H 05 54 28
	ME	06 37				(USGS)
14	iPZ	18 12 57		-	28°	H 18 07 12
	ipPZ	13 37		+		.01 deep
	eSE	17 16				(BCIS)
	esSE	18 03				
14	iPZ	22 14 50		+	36° .5	H 22 07 47
						(USGS)
17	iPZ	03 25 03		+	51° .5	H 03 16 19
	ipPZ	26 04		+		.03 deep
	iPcPZ	26 21		+		(USGS)
	iPPZ	27 03		-		
	iSSN	33 30		+		
	eXE	36 10		-		
	iXN	37 04		-		
18	iPZ	11 01 54		-	82°	H 10 49 37
	iSN	12 12		-		(USGS)
	ME	11 40	12	3		
23	iPZ	10 55 20		+	19°	H 10 51 00
						.02 deep
						(BCIS)
24	iPZ	05 33 33		+	57°	H 05 23 51
						(USGS)
25	iPZ	14 21 16		+	93°	H 14 09 00
	ipPZ	23 14		-		.08 deep
	iPPZ	25 06		-		(USGS)
	iSKSN	30 59		+		
	iSE	31 32		-		

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1973 October sheet 3

Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
iPZ	07 05 55			28° .5	H 07 00 00
iPPZ	06 45		+		(BCIS)
iPcPZ	09 08		+		
iSE	10 50		-		
iSSE	11 52		-		
iXE	15 45		+		
ME	07 20	10	19		
ME	10 58			15°	H 10 48 18
					(BCIS)
ME	11 20			15°	H 11 12 00
					(BCIS)
iPE	11 35 12		+	15°	H 11 31 40
ME	11 41				(BCIS)
ME	11 59			15°	H 11 47 33
					(BCIS)
ME	14 35			15°	H 14 25 50
					(BCIS)

June 1974

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DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR 1973 NOVEMBER

Instruments:- Wilson-Lamison seismometer free period 1 sec. coupled to G.E. galvanometer free period 3.4 sec., recording vertical component of velocity.
Milne-Shaw free period 12 sec., damping ratio 20:1, magnification 250 recording N and E component displacements

Station	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
1	iPKPZ	06 58 39		+	149°	H 06 38 54 (USGS)
	iPKPZ	58 45		-		
	iXZ	58 54		-		
2	MN	06 13			41°	H 05 46 39 (BCIS)
3	iPZ	00 30 59		+	70°	H 00 19 51 (USGS)
3	ePE	14 31 13			98° .5	H 14 17 42 (USGS)
	iSKSE	41 58		+		
	eSE	42 50				
	eSSE	49 28				
	ME	15 10	20			
	ME	15 21	19			
4	iPZ	15 57 06		-	21° .5	H 15 52 18 (BCIS)
	iPPZ	57 33		-		
	iXZ	58 01		-		
	iXZ	58 38		-		
	iSE	16 01 07		+		
	iSSE	02 02		+		
	ME	16 09	10	12		
4	iPZ	16 16 30		+	21° .5	H 16 11 42 (BCIS)
6	iPKPZ	05 38 05		-	151°	H 05 19 18 .08 deep (USGS)
6	iPZ	09 47 37		-	74°	H 09 36 05 (USGS)
	iSE	57 21		-		
	iSKSE	58 23		-		
	ME	09 26	20	15		Mag. 6.1.
6	iPZ	18 38 08		-	74°	H 18 26 35 (USGS)
	iSE	47 40		-		
	MN	19 17	20	18		Mag. 6.2

Station	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
1	iPKPZ	22 14 17		-	145°	H 21 55 13 .04 deep (USGS)
2	ME	00 29			28°	H 00 11 46 (BCIS)
3	iPKPZ	16 29 27		-	143° .5	H 16 10 59 .09 deep (USGS)
5	iSE	06 23 41		+	57°	H 06 05 57 (USGS)
9	iPZ	13 14 08		-	81° .5	H 13 01 56 (USGS)
	iPcPZ	14 27		-		
	iSE	24 39		+		
	iSSE	29 43		+		
	MN	13 54	20	28		Mag. 6.5
11	ME	14 20			79°	H 13 31 32 (USGS)
21	iPZ	21 17 05		+	77°	H 21 05 20
	iSN	26 46		-		.01 deep (USGS)
23	iPZ	13 41 37		-	24°	H 13 36 25 (BCIS)
	MN	13 49	13	7		
24	ME	14 18			19°	H 14 05 49 (BCIS)
24	ME	15 33			19°	H 15 22 09 (BCIS)
25	ME	04 33			19°	H 04 20 25 (BCIS)
25	iSE	04 47 32		-	84° .5	H 04 24 47 (USGS)
27	iPZ	14 03 43		+	71°	H 13 52 30 (USGS)
	iPPZ	03 45		-		
28	iPZ	08 26 27		-	103° .5	H 08 12 31 (USGS)
29	ePZ	11 03 21			26° .5	H 10 57 46 (BCIS)
	iSE	07 56		-		
	iXN	08 37		-		
	iSSE	09 26		-		
	iXN	12 33		+		
	ME	11 14	18	25		Mag. 5.6

DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR 1973 DECEMBER

Instruments:- Wilson-Lamison seismometer free period 1 sec. coupled to G.E. galvanometer free period 3.4 sec., recording vertical component of velocity.

Milne-Shaw free period 12 sec., damping ratio 20:1, magnification 250 recording N and E component displacements.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
1	ipZ	10 50 49		-	79°	H 10 38 51 (USGS)
	ise	11 01 03		+		
1	ePZ	23 30 04			79°	H 23 18 04 (USGS)
	MN	24 10	19	6		Mag. 5.8
5	ipZ	03 56 30		-	27° .5	H 03 50 52 .01 deep (BCIS)
5	ipZ	18 01 17		-	18°	H 17 57 20 (BCIS)
9	ipKPZ	20 15 23		-	144° .5	H 19 55 46 (USGS)
	iSKKSE	24 57		+		
	ipSN	28 51		+		
	MN	21 07	38	40		
	MN	21 18	22	13		Mag. 6.5
10	ePZ	19 40 21			83°	H 19 28 13 (USGS)
11	ePZ	00 15 27			24° .5	H 00 10 12 (BCIS)
	ise	19 53		-		
	ixN	22 21		+		
	MN	00 24				
14	ipZ	07 55 31		-	47°	H 07 47 00 (BCIS)
15	ipKPZ	11 13 30		-	147°	H 10 54 52 .08 deep (USGS)
19	ipKPZ	05 01 37		-	115° .5	H 04 43 01 (USGS)
19	ipKPZ	13 15 08		-	145° .5	H 12 55 57
	ipKPZ	16 09		-		.03 deep

1973 December sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
22	ipZ	01 32 26		-	84° .5	H 01 19 59 (USGS)
24	ipKPZ	08 33 45		-	144°	H 08 14 25 .01 deep (USGS)
26	ePZ	20 42 44			86° .5	H 20 30 06 (USGS)
	eSN	53 22				
28	ipKPZ	05 49 48		-	149°	H 05 31 06 .08 deep (USGS)
	ipKPZ	49 53		-		
	ipKPZ	51 57		-		
28	ipKPZ	14 01 19		-	138° .5	H 13 41 46 (USGS)
	ipKPZ	01 37		+		
	ipPN	04 33		+		
	ixZ	05 07		-		
	ixZ	06 11		-		
	ipPPE	07 46		+		
	iSKKSE	11 00		-		
	isSE	22 46		-		
	MN	15 05	20	83		Mag. 7.2
	MN	15 46	20	78		
	ME	15 59	20	25		
29	ePKPZ	00 38 52			139° .5	H 00 19 31 (USGS)
	ipKPZ	39 03		-		
	ipPZ	41 45		-		
	ixE	42 29		-		
	MN	01 41	20	29		Mag. 6.8
29	ise	08 40 30		+	70° .5	H 08 20 16 (USGS)
	ME	09 07				
30	MN	18 05	20	12	140°	H 16 39 30 (USGS) Mag. 6.4

18th June, 1974