



DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR JANUARY 1968

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	iPZ	04 13 36		+	18°	H 04 09 35222 (USCGS)
3	iPZ	07 41 38		+	$17^{\circ}.5$	H 07 37 50000 (BCIS)
4	ePKPZ	22 28 55			146°	H 22 10 17555 (USCGS) ()
5	iPKPZ	08 19 54		-	142°	H 08 00 19222 (USCGS) ()
6	MN	24 24	21	20	102°	H 23 27 21111 (USCGS) ()
13	iPZ	07 16 33		-	89°	H 07 03 32222 (USCGS) ()
	iSKSE	26 58		-		
	iSE	27 18		-		
	MN	08 00	16	28		
	MZ	08 00	16			
14	iPKPZ	08 20 08		+	148°	H 08 01 28333 (USCGS) ()
15	iPZ	01 37 35		-	20°	H 01 33 02333 (BCIS)
	iSN	41 17		-		
	iSSE	41 59		+		
	ME	01 46	10	8		
15	iPZ	02 05 36		-	20°	H 02 01 08000 (BCIS)
	iSE	09 13		-		
	iSSE	10 04		-		
	ME	02 16	10	25		
16	iPZ	16 47 17		-	20°	H 16 42 45222 (BCIS)
	iSN	50 57		+		
	iSSE	51 45		+		
	MN	16 56	10	8		
18	iPZ	22 04 37		-	13°	H 21 56 52222 (USCGS) ()
19	iPKPZ	06 23 53		-	$131^{\circ}.5$	H 06 04 38888 (USCGS) ()
	iPPN	26 19		+		
	MN	07 23	20	18		

09 deep ()

refio = 16807

Information produced at the International Seismological Centre, Edinburgh, 1968, produced on 2006 by SGA Storia Geofisica Ambiente (Bologna), on behalf of the Istituto Nazionale di Geofisica e Vulcanologia (Rome), in the frame of the EUROSEISMOS project. These data are considered public domain and may be freely distributed or copied for non-profit purposes provided the project is properly quoted.

JANUARY, sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
21	iPZ	23 57 01		+	77°	H 23 45 17 (USCGS)
25	iPN	10 01 22		+	20°	H 09 56 47 (BCIS)
	iSN	05 02		-		
	MN	10 11	11	8		
26	MN	05 42	40	60	115°	H 04 45 41 (USCGS)
	MN	05 50	20	33		
29	iPZ	10 31 03		-	78°	H 10 19 06 (USCGS)
	iPoPN	31 23		-		
	iPPE	33 59		-		
	iSN	40 53		-		
	iSKSE	41 10		-		
	iSoSN	41 23		+		
	MN	11 13	20	135		
MZ	11 13	20				
29	iPZ	10 54 15		-	78°	H 10 42 09 (USCGS)
29	iPZ	11 56 17		+	78°	H 11 43 59 (USCGS)
29	iPZ	16 55 00		-	78°	H 16 42 50 (USCGS)

17th September, 1968.

Information produced at the International Seismological Centre, Edinburgh, 1968, produced on 2006 by SGA Storia Geofisica Ambiente (Bologna), on behalf of the Istituto Nazionale di Geofisica e Vulcanologia (Rome), in the frame of the EUROSEISMOS project. These data are considered public domain and may be freely distributed or copied for non-profit purposes provided the project is properly quoted.

DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR FEBRUARY 1968.

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
8	iPN	12 38 14		-	59°	H 12 28 21 (USCGS)
	iSE	46 22		+		
9	iPZ	13 27 20		-	20°	H 13 22 56 .02 deep (BCIS)
10	ePZ	10 11 53			77°	H 10 00 06 (USCGS)
	eSE	21 43				
12	iPKPZ	06 03 44		+	126°.5	H 05 44 48 .01 deep (USCGS)
	iXZ	03 48		+		
	iPPE	05 43		+		
	iXN	07 04		+		
	eSKSE	10 40		-		
	iSKKSN	12 36		-		
	iSSE	22 39		-		
12	MN	06 47	30	110		
	MN	07 01	20	60		
	MZ	07 01	20			
12	iPE	10 23 33		+	21°	H 10 18 53 (BCIS)
19	iPZ	22 50 54		+	24°	H 22 45 44 (BCIS)
	iPPE	51 43		+		
	iPoPE	54 46		-		
	iSN	55 03		+		
	ME	23 03	20	500		
MN	26 19	20	5			
20	iPZ	02 29 23		-	55°	H 02 19 50 (USCGS)
20	ePZ	09 46 18			24°	H 09 41 06 (BCIS)
	eSN	50 44				
	MN	09 55				
24	ePZ	13 28 21			20°	H 13 23 56 .02 deep (BCIS)
	eSE	31 37				

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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 MARCH 1968

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
7	iPZ	07 25 22		+	17°	H 07 21 16 (BCIS)
	iSE	28 20		+		
	ME	07 30	11	12		
7	iPZ	07 31 40		-	17°	H 07 27 43 (USCGS)
10	ePN	06 53 31			24°	H 06 48 14 (BCIS)
10	iPZ	07 16 12		-	24°	H 07 10 57 (BCIS)
	iSN	20 21		-		
	iSSN	21 17		+		
	MN	07 25	10	6		
13	iPKPZ	20 44 10		-	145°.5	H 20 25 32 (USCGS)
27	iPZ	05 04 25		-	75°.5	H 04 52 43 (USCGS)
28	iPZ	07 45 01		+	22°.5	H 07 40 02 (BCIS)
	iSN	49 06		+		
28	iPZ	16 42 37		-	21°.5	H 16 37 45 (BCIS)

17th September, 1968

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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 APRIL 1968

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	00 54 34		-	85°	H 00 42 04 (USCGS)
	iFPN	58 04		+		
	iSKSN	01 05 04		+		
	iSE	05 11		-		
	MN	01 34	20	470		
	MN	01 39	12	220		
	MZ	01 39	12			
	MN	03 24	20			
1	iPZ	07 25 51		+	85°	H 07 13 18 (USCGS)
	iSKSE	36 19		-		
	iSE	36 25		+		
	MN	08 09	14	23		
	MZ	08 09	14			
3	iPZ	16 36 33		-	74°	H 16 24 46 (USCGS)
8	iPKPZ	02 33 20		-	149°	H 02 14 34 (USCGS)
9	iPZ	02 40 53			76°	H 02 28 59 (USCGS)
	iPoPZ	41 20		+		
	iSE	50 38		-		
	iSKSN	51 00		+		
	iSoSN	51 15		+		
	iSSN	55 24		+		
	ME	03 14	17	100		
	MZ	03 14	17			
9	iPKPZ	11 46 01		-	143°	H 11 27 39 .10 deep (USCGS)
10	iPKPZ	05 19 59		-	149°	H 05 01 07 .07 deep (USCGS)

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APRIL 1968 sheet 2

Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
iPZ	08 46 21		-	82°	H 08 34 03
eSKSN	56 32				(USCGS)
iSN	56 40		+		
eSSE	09 02 04				
MN	09 25	20	5		
iPZ	21 13 42		-	18°	H 21 09 50
				03 deep	(BCIS)
iPZ	12 48 19		-	50°	H 12 39 47
					(USCGS)
iPZ	20 39 55		+	64°	H 20 29 15
iSN	48 25		+		(USCGS)
MN	21 08	18	5		
iPZ	21 08 39		+		
iPZ	08 23 16		-	24°	H 08 18 03
iXZ	23 19		+		(BCIS)
eSN	27 24				
iXE	27 54		+		
MN	08 32	13	6		
iPKPZ	22 54 24		-	146°	H 22 35 53
					.10 deep (USCGS)
iPZ	03 06 01		+	41°	H 02 58 19
iPPZ	07 36		-		(BCIS)
eSN	12 19				
iPN	13 33 04		+	83°	H 13 21 13
eSE	43 19				.02 deep (USCGS)
ePZ	15 11 31		-	72°	H 15 00 00
iPZ	11 32		+	.5	(USCGS)
MN	15 44	15			
iPZ	18 00 18		+	81°	H 17 48 02
eSE	10 35				(USCGS)
MN	18 37	18	7		
iPKPZ	14 16 20		-	146°	H 13 57 50
					.10 deep (USCGS)
iPKPZ	09 51 32		-	146°	H 09 32 57
					.10 deep (USCGS)

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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 MAY 1968

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	iPZ	08 56 13		-	82°	H 08 43 47
	eSN	09 06 27				(USCGS)
	eSSE	11 22				
1	iPZ	19 25 28		-	80°	H 19 12 53
	iSN	35 28		-		(USCGS)
2	iPZ	05 39 57		-	62°	H 05 29 38
	iSN	48 18		-		(USCGS)
2	eSE	08 09 20			29°	H 07 58 05
						(USCGS)
2	iPPZ	23 46 09		-	118°	H 23 26 04
	eSKSE	51 13				.02 deep (USCGS)
	eSSE	24 01 54				
3	iSN	05 55 48			88°	H 05 32 46
						(USCGS)
7	iPKPZ	12 02 11		-	144°	H 11 43 32
						.09 deep (USCGS)
3	iPZ	12 28 45		-	72°	H 12 17 13
	iPcPZ	29 01		-		(USCGS)
	iPPZ	31 41		+		
	iSE	38 04		-		
	iSKSE	38 51		+		
	iScSE	38 54		-		
	iSSE	42 46		-		
	MN	13 00	17	13		
	MN	03 05	18		29°	H 02 46 35
						(BCIS)
	iPKPZ	05 56 39		-	149°	H 05 37 05
						.02 deep (USCGS)
	iPZ	14 17 30		-	86°	H 14 05 06
	eXE	20 47				.03 deep (USCGS)
	iSKSE	27 40		-		
	iSN	28 00		+		
	MN	15 02	14	5		

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sheet 2 MAY 1968 continued

Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
iPZ	08 37 37		-	84°	H 08 25 09 (USCGS)
ePZ	10 51 10		+	79°	H 10 39 02 (USCGS)
iPcPZ	51 23		+		
iPPZ	54 11		+		
iSE	11 01 10		-		
iSKSN	01 22		+		
iScSN	01 34		-		
iSSN	06 21		-		
MN	11 28	20	390		
MZ	11 31	19			
MN	11 32	18	350		
ePN	16 25 05			81°	H 16 13 45 (USCGS)
ePPE	29 11				
eSE	36 16		+		
iSSE	41 30		-		
ME	17 04	20	17		
iPZ	18 55 30		+	80°	H 18 43 21 (USCGS)
iPcPZ	55 46		-		
iXZ	56 29		-		
iPPZ	58 32		-		
eSN	19 05 22				
eSKSN	05 52				
MN	19 35	20			
iPZ	20 34 20		-	80°	H 20 22 15 (USCGS)
eSE	44 21				
eSKSE	44 40				
iPZ	23 17 16		+	81°	H 23 04 55 (USCGS)
iPcPZ	17 24		+		
iPPE	20 20		-		
iSE	27 21		+		
iSKSN	27 31		-		
eSSE	32 30				
MN	23 52	20	45		
MN	24 00	18	48		
MZ	24 00	15			
iPKPZ	08 17 09		+	148°	H 07 57 18 (USCGS)
iPZ	10 55 05		-	81°	H 10 42 46 (USCGS)
eSE	11 05 18				
MN	11 31				
iPZ	13 14 51		-	80°	H 13 02 37 (USCGS)
eSE	24 44				
iPZ	16 14 38		-	81°	H 16 02 24 (USCGS)
eSE	24 46				

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sheet 3 MAY 1968 continued

Station	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
20	iPZ	10 45 55		-	75°	H 10 34 17 (USCGS)
	iSN	55 30		+		
	MN	11 24	19	2		
20	iPZ	12 05 20		-	73°	H 11 53 55 (USCGS)
	eSE	14 49				
10	iPKPZ	20 25 40		-	156°	H 20 05 49 (USCGS)
	iPKPZ	26 08		+		
	iPPZ	29 42		-		
	iSKKSN	36 37		-		
	eSSE	49 32				
	MN	21 42	21	20		
0	iPZ	21 21 41		-	78°	H 21 09 45 (USCGS)
	iXZ	21 54		-		
	iXZ	22 24		-		
	iSE	31 31		+		
	iSKSE	31 47		+		
	MN	22 02	18	50		
	MZ	22 02	18			
1	iPZ	00 31 30		-	78°	H 00 19 35 (USCGS)
	iSN	41 21		-		
	MN	01 12	18			
1	iPN	04 07 33		+	47°	H 03 59 11 (USCGS)
	eSE	14 36				
1	iPZ	08 31 58		+	78°	H 08 20 01 (USCGS)
	iSN	41 45		-		
	eSKSE	42 13				
	MN	09 10	19	6		
1	iPZ	11 12 43		-	78°	H 11 00 45 (USCGS)
	MN	11 44	18	3		
1	iPZ	18 59 25		-	78°	H 18 47 31 (USCGS)
	eSN	19 09 16				
	MN	19 40				
2	ePE	19 41 36			81°	H 19 29 26 (USCGS)
	eSE	51 38				
	eSKSE	52 06				
	ME	20 14	24			
	ME	20 21	20			
3	ePKPE	17 44 30			167°	H 17 24 16 (USCGS)
	iPKPZ	45 27		-		
	iPPN	49 11		-		
	eSKSE	51 23		-		
	iSKKSN	56 21		-		
	iSSE	18 10 03		-		
	MN	19 01	22	56		

sheet 4 MAY 1968 continued

Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
ePE	12 05 14			81°	H 11 52 57
iSN	15 23		+		(USCGS)
ME	12 51	12			
iPKPZ	13 46 04			120°	H 13 27 19
iXZ	46 10		-		.01 deep
ipPKPZ	46 19		-		(USCGS)
iPPZ	47 34		+		
iPPPN	50 17		-		
iPSN	57 14		+		
iXE	57 24		+		
iSSN	14 04 14		+		
iSSSN	07 10		+		
ME	14 33	30	240		
MZ	14 33	30			
iPZ	22 41 29		-	73°	H 22 29 57
iSE	50 59		-		(USCGS)
MN	23 25	19			
iPZ	05 35 44		+	77°.5	H 05 23 49
iPPZ	38 43		+		(USCGS)
iSN	45 34		-		
iSKSN	46 00		+		
iSSE	46 43		+		
MN	06 17	20	6		
iPZ	17 46 26		-	28°	H 17 40 24
iXZ	46 41		-		(USCGS)
iPPZ	47 12		-		
iSN	50 59		+		
iSSN	52 30		-		
iSoSE	57 34		-		
ME	18 00	10	10		
MZ	18 00	10			
iPKPZ	20 02 44		-	156°	H 19 42 25
MN	21 10	20			(USCGS)
iPZ	20 01 24		-	45°.5	H 19 53 06
					(USCGS)
iPZ	23 18 24		-	27°	H 23 12 43
					(USCGS)

DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR JUNE 1968

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.

Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
iPKPZ	08 37 46		-	130°	H 08 18 36
eSKSE	45 09		+		(USCGS)
iPPSE	52 13		+		
iPKPZ	09 36 24		+	124°	H 09 17 46
					.03 deep
					(USCGS)
iPZ	14 28 00		-	76°	H 14 16 20
ipPZ	28 37		-		.03 deep
eSE	37 29				(USCGS)
esSE	38 40				
iPZ	06 57 54		-	41°.5	H 06 50 02
					(BCIS)
ePZ	21 29 30			79°	H 21 17 14
eSE	39 35				(USCGS)
iPPZ	12 16 30		+	110°	H 11 57 29
iXE	16 34		-		(USCGS)
iSKSE	22 32		+		
iSKKSE	23 24		+		
iXE	27 01		+		
MN	13 06	20	30		
eXE	21 50 24			110°	H 21 30 50
eSKSE	56 27				(USCGS)
iPSE	59 33		+		
ePPSE	22 00 30				
MN	22 34	20	6		
ePPE	00 39 14			131°	H 00 16 39
eSKSE	44 37				(USCGS)
iPZ	05 41 45		+	79°	H 05 29 47
iSN	51 36		-		(USCGS)

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sheet 2, June 1968

Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
ePZ	03 14 29			46°.5	H 03 05 58 (USCGS)
ePZ	13 54 03			81°.5	H 13 41 51 (USCGS)
iPcPZ	54 13		+		
iXZ	54 31		+		
iXZ	54 47		+		
iXZ	54 59		-		
iPPZ	57 25		-		
iPPPZ	59 26		-		
iSN	14 04 29		+		
iSSN	09 36		+		
MN	14 29	24		220	
MN	14 35	18		125	
MZ	14 35	18			
ePZ	16 01 18			81°.5	H 15 48 59 (USCGS)
ePZ	18 04 16			81°.5	H 17 52 01 (USCGS)
eSE	14 32				
ePZ	22 09 56		+	81°.5	H 21 57 41 (USCGS)
eSE	19 57				
iSKSN	20 12		+		
MN	22 42	24			
ME	22 48	18			
iPZ	02 18 01		+	81°.5	H 02 05 43 (USCGS)
eSE	28 15				
ePZ	04 02 08			16°.5	H 03 58 11 (USCGS)
iPZ	12 08 45		-	81°.5	H 11 56 23 (USCGS)
eSE	18 54				
MN	12 52				
iPZ	21 22 52		-	81°.5	H 21 10 35 (USCGS)
eSE	32 41				
MN	22 06	13			
iPZ	12 04 54		-	81°.5	H 11 52 40 (USCGS)
ePZ	12 29 26			78°.5	H 12 17 28 (USCGS)

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Sheet 3, June 1968

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
15	iPZ	13 27 32		-	90°	H 13 14 37 (USCGS)
	ePPE	31 13				
	eSKSE	38 12				
	eSE	38 26				
16	iPZ	05 08 58		-	91°.5	H 04 55 57 (USCGS)
	eSN	20 21				
16	iPZ	13 07 57		-	21°	H 13 03 18 (BCIS)
17	ePZ	12 05 06			80°	H 11 53 00 (USCGS)
	iPZ	05 09		+		
	iPPN	08 05		-		
	eXE	14 49				
	eSN	15 10				
	iSKSN	15 17		-		
	MN	12 39	20	20		
	MN	12 42	20	44		
17	ePZ	17 08 30			81°	H 16 56 13 (USCGS)
	eSN	18 53				
	MN	17 46				
17	ePKPZ	18 28 55			138°	H 18 09 34 (USCGS)
17	ePZ	19 09 50			85°	H 18 57 27 (USCGS)
	eSN	20 08				
	MN	19 44	20	7		
18	ePZ	05 30 13			11°	H 05 27 35 (BCIS)
	eSN	32 09				
	iXN	33 32		+		
	iXZ	33 35		-		
	iXZ	33 50		-		
	iXN	34 39		-		
18	ePZ	22 01 45			90°	H 21 48 48 (USCGS)
	eSKSE	12 23				
	eSE	12 40				
19	iPZ	05 14 31		+	46°.5	H 05 06 00 (BCIS)
19	iPZ	06 00 38		+	90°	H 05 47 43 (USCGS)
	eSKSE	11 18				
	eSE	11 38				
19	iPZ	08 26 17		-	87°	H 08 13 35 (USCGS)

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Sheet 4, June 1968

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
20	iPZ eSKSE iSN	02 51 19 03 01 44 01 56		+ -	87°	H 02 38 38 (USCGS)
20	eSKSE eSE	05 18 59 19 16			90°	H 04 55 25 (USCGS)
20	eSKSE eSE	20 59 56 21 00 09			90°	H 20 36 12 (USCGS)
21	iPZ eSKSE iSE	00 38 22 49 14 49 26		+ -	86°	H 00 26 08 (USCGS)
21	eSKSE eSE	06 11 03 11 23			90°	H 05 47 23 (USCGS)
22	eSE	00 45 47			90°	H 00 22 03 (USCGS)
22	eSE ME ME	01 35 04 01 58 02 11	24 12		81°	H 01 12 31 (USCGS)
22	eSE	10 10 26			90°	H 09 46 50 (USCGS)
22	eSE	16 11 48			45° .5	H 15 56 48 (BCIS)
22	iPKPZ	21 19 20		-	143°	H 21 01 03 .10 deep (USCGS)
23	iPZ iSE MN	09 24 35 30 52 09 44		- -	45° .5	H 09 16 11 (BCIS)
26	eSE eSSE MN	02 03 19 07 04 02 25	18		73° .5	H 01 42 19 (USCGS)
26	iPKPZ	16 00 04		-	147°	H 15 40 31 .01 deep (USCGS)
27	iPKPZ	02 21 16		-	146°	H 02 02 40 .10 deep (USCGS)

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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 JULY 1968

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
	ePZ	04 08 19			32°	H 04 01 56 (BCIS)
	iPZ iPoPZ eSE iXN MN	10 57 35 57 37 11 07 41 08 17 11 34		- - - -	83°	H 10 45 12 .01 deep (USCGS)
			25	6		
2	iPZ iPoPZ iPPZ iXZ iXZ eSE iSKSN MN ME	03 57 03 57 05 04 00 00 00 13 00 20 07 03 07 37 04 27 04 32		- - - - - + 10 7	80° .5	H 03 44 49 (USCGS)
	ipPZ	03 57 21		+		
2	iPKPZ iPKPZ	04 51 03 51 21		+ -	155°	H 04 30 53 (USCGS)
2	iSKSN	19 05 40		+	118°	H 18 40 10 (USCGS)
4	iPZ iPPZ iSE iSSE MN	21 53 08 53 49 57 29 58 40 22 02		- - - + 9	25°	H 21 47 49 (BCIS)
5	iPZ	00 57 18		-	81°	H 00 45 17 (USCGS)
5	iPZ ePPN iSE iSKSN	11 40 32 43 38 50 41 50 54		- - + -	81°	H 11 28 13 (USCGS)

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Sheet 2 July 1968

Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
iPKPZ	12 28 05		-	147°	H 12 09 28 .10 deep (USCGS)
iPZ	17 23 42		-	46°	H 17 15 21 (BCIS)
eXE	30 17				
eSE	30 32				
eSSE	33 48				
iPZ	17 46 50		+	27° .5	H 17 41 09 (BCIS)
eSE	51 27				
MN	18 00	18			
eSN	15 11 23			28° .5	H 15 00 42 (BCIS)
ePPZ	11 36 37			115°	H 11 16 45 (USCGS)
eSKSE	42 26				
eSSE	52 09				
iPZ	20 52 52		-	82°	H 20 40 31 (USCGS)
eSE	21 03 07				
MN	21 32	19	2		
iPN	00 56 58		-	82°	H 00 44 37 (USCGS)
iPcPZ	57 05		-		
eSN	01 06 58				
iSKSE	07 05		-		
iScSE	07 20		-		
iSSN	12 25		-		
MN	01 30	27	12		
M	01 37	20	15		
ePZ	04 08 45		-	82°	H 03 56 27 (USCGS)
iPcPZ	08 51		-		
eSN	18 59				
eScSE	19 13				
MN	04 50	16	2		
iPKPZ	11 47 14		-	156° .5	H 11 28 25 .09 deep (USCGS)
eSE	12 23 15			46°	H 12 07 57 (USCGS)
eSE	17 04 52		-	80°	H 16 42 45 (USCGS)

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Sheet 3 July 1968

Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
12	ePZ 05 23 46		-	109°	H 05 09 16 (USCGS)
	iPPZ 28 05		-		
	MN 06 10	19	2		
1	iPKPZ 18 18 04		+	145°	H 17 58 30 (USCGS)
	iPKPZ 18 14		+		
	iPZ 18 40 30		-	83°	H 18 28 01 (USCGS)
	eSE 50 55				
	ME 19 17				
3	ePN 23 14 49			81°	H 23 02 35 (USCGS)
	ePPN 17 56				
	eSE 24 54		-		
	iSKSE 25 13		+		
	eSSE 30 07				
	ME 23 51	20	2		
14	ePZ 04 19 11			83°	H 04 06 41 (USCGS)
	eSN 29 36				
	MN 04 55				
25	iPKPZ 07 01 05		-	146°	H 06 41 27 (USCGS)
	iPKPZ 01 16		+		
25	ePKPZ 07 42 51			157°	H 07 23 08 (USCGS)
	iPKPZ 42 54		+		
	iPKPZ 43 21		+		
	MN 09 15	20	37		
	MZ 09 22	15			
	M 09 22	15	14		
	ePN 11 02 20			76°	H 10 50 31 (USCGS)
	eSN 12 05				
	MN 11 39	15			
	iPZ 02 51 51		-	28° .5	H 02 45 50 (BCIS)
	iPPZ 52 33		-		
	iSN 56 22		-		
	iSSE 58 06		+		
	MN 03 02	18	9		
	iPKPZ 11 11 05		-	144° .5	H 10 51 40 .01 deep (USCGS)
	iPKPZ 11 18 07		+	147° .5	H 10 58 26 (USCGS)
	iPKPZ 18 19		+		
				82°	H 18 36 10

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Sheet 4 July 1968

Time	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
19	iPKPZ	15 39 38		-	146°	H 15 19 58 (USCGS)
19	iPKPZ	24 10 58		+	114°.5	H 23 52 15 (USCGS)
	IPPZ	11 57		+		
	ME	24 52				
30	ePKPZ	00 23 57			112°.5	H 00 05 07 (USCGS)
	ePPZ	24 55				
	iXZ	25 04		-		
30	iPKPZ	03 09 14		-	147°	H 02 50 41 (USCGS)
30	ePKPZ	04 29 51			147°	H 04 10 12 (USCGS)
30	iPKPZ	04 46 50		+	147°	H 04 27 14 (USCGS)
30	iPKPZ	07 17 35		-	147°	H 06 57 25 (USCGS)
30	iPZ	20 51 37		-	89°	H 20 38 42 (USCGS)
	iSKSE	21 02 02		+		
	iSN	02 22		-		
	eSSN	08 21				
	ME	21 28	20	3		

18th March, 1969.

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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 AUGUST 1968

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	iPKPZ	00 33 50		+	151°.5	H 00 14 16
	ipPKPZ	33 56		-		.02 deep (USCGS)
	iXZ	34 03		-		
	iPKPZ	34 07		+		
	ipPKPZ	34 33		+		
	iXZ	34 53		-		
1	iPZ	20 32 48		+	96°	H 20 19 22 (USCGS)
	IPPZ	36 28		+		
	iSKSE	43 23		+		
	iSPZ	45 28		-		
	iPSE	45 39		-		
	iSSE	49 31		-		
	ME	21 11	27	280		
	ME	21 21	20	180		
	MZ	21 21	20			
	ISE	44 05		-		
2	iPZ	13 39 31		+	52°	H 13 30 23 .01 deep (USCGS)
2	iPZ	14 18 53		-	81°	H 14 06 44 (USCGS)
	IPPZ	22 00		+		
	iSE	29 10		+		
	iSKSN	29 31		-		
	iSSE	34 23		+		
	MN	14 58	19	95		
	MZ	14 58	19			
3	iPZ	05 07 27		+	81°	H 04 54 33 (USCGS)
	IPPZ	10 58		+		
	iSN	18 00		-		
	iSKSN	18 22		-		
	iXN	19 20				
	eSSN	23 37				
	MN	05 54	15	88		
	MZ	05 54	15			
3	iPZ	06 38 24		+	96°	H 06 25 06 (USCGS)

AUGUST 1968, sheet 4

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
	iPZ	10 56 11		+	47°	H 10 47 39 (BCIS)
	iXZ	56 14		+		
	iXZ	56 19		-		
	iXE	57 08		-		
	iPPZ	58 11		-		
	iSN	11 03 01		+		
	iScSN	06 14		+		
	iSSN	06 41		-		
	ME	11 22	10	150		
	MZ	11 22	10			
	ePKPZ	20 13 21		-	144°	H 19 54 35 .06 deep (USCGS)

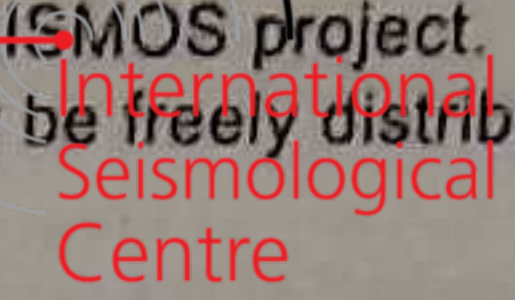
29th April, 1969

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

SEISMOLOGICAL BULLETIN FOR SEPTEMBER 1968

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	07 35 55			47°	H 07 27 28 (BCIS)
	iPZ	35 57		+		
	iSN	42 43		-		
	iScSN	45 54		-		
	iSSN	46 06		-		
	ME	08 03	10	10		
3	iPZ	05 35 32		-	78°	H 05 23 30 (USCGS)
	eSN	45 17				
3	iPE	08 25 32		-	26°	H 08 19 52 (BCIS)
	iXZ	25 38		-		
	iPPE	26 12		-		
	iSN	30 10		-		
	iXE	30 28		-		
	iXN	30 17		-		
	iSSE	31 28		+		
	MN	08 38	15	50		
	MZ	08 39	15			
3	ePN	11 01 46			26°	H 10 56 14 (BCIS)
	eSN	06 26				
3	iPZ	15 46 48		-	57°	H 15 37 00 (USCGS)
	iSE	54 45		-		
	ME	16 08	18			
3	ePZ	18 57 18			51°	H 18 48 16 (USCGS)
	eSE	19 04 27				
4	iPZ	23 33 12			47°	H 23 24 50 (BCIS)
5	iPZ	04 14 28		+	46°.5	H 04 06 00 (BCIS)
6	iPKPZ	07 55 46		-	143°	H 07 36 06 (USCGS)



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sheet 2 September 1968

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
	iPZ	13 49 39		-	143°	H 13 30 06 (USCGS)
	iPKPZ	15 31 17		+	122°	H 15 12 24 (USCGS)
	iPPZ	32 53		+		
	eXN	35 29				
	iXN	42 34		+		
	eXN	50 00				
	MN	16 17	22			
	iPZ	20 21 45		-	77°	H 20 09 51 (USCGS)
	iPKPZ	22 07 24		-	144°	H 21 48 13 .02 deep (USCGS)
	iSKSN	00 58 19		-	88°	H 00 35 18 (USCGS)
	iPZ	00 50 19		+	88°	H 00 37 43 (USCGS)
	iSKSN	01 00 46		-		
	iPZ	02 30 30		-	56°.5	H 02 20 58 (USCGS)
	iPKPZ	02 54 04		-	143°	H 02 34 33 (USCGS)
	iPKPZ	17 01 33		-	121°.5	H 16 42 54 (USCGS)
	iPKPZ	20 24 27		-	149°	H 20 05 34 .09 deep (USCGS)
	iPZ	19 25 39		+	47°	H 19 17 13 (USCGS)
	iPPZ	27 29		-		
	eSN	32 36				
	iSSN	35 37		-		
	MN	19 48	18	5		
	iPKPZ	23 02 37		-	147°	H 22 44 07 .10 deep (USCGS)
	iXZ	03 10		-		
	iXZ	03 58		+		
	iPZ	01 42 45		-	17°	H 01 38 45 (USCGS)
	iSSN	46 13		-		
	MN	01 48	15	3		

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sheet 3 September 1968

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
16	iPKPZ	14 14 36		-	126°	H 13 55 36 (USCGS)
	iFPN	16 30		-		
	iPSN	26 46		-		
	MN	15 08	22	30		
16	iPKPZ	19 19 08		-	142°	H 19 00 01 (USCGS)
20	ePZ	06 10 33			66°	H 06 00 03 .02 deep (USCGS)
	iPZ	10 35		+		
	iPcPN	11 18		-		
	iSN	19 08		+		
	iSN	19 48		+		
	iSSN	23 46				
21	iPZ	13 18 02			79°	H 13 05 58 (USCGS)
	iXZ	18 21		-		
	iSN	27 55		-		
	iSKSN	28 15		-		
	iSSN	33 02		-		
	MN	13 55	20	35		
25	iPKPZ	07 23 24		-	169°	H 07 02 52 (USCGS)
	MN	08 41	20			
25	iPZ	10 50 29		-	78°	H 10 38 38 .02 deep (USCGS)
	iPcPZ	50 55		-		
	ipPZ	51 31		-		
	iXE	54 04		+		
	iSE	11 00 13		-		
	iSSE	00 56		+		
	iSSE	05 14		+		
	ME	11 19	20	7		
25	iPE	20 59 42		+	32°.5	H 20 52 14 (USCGS)
	iSE	21 04 12		-		
26	iPKPZ	14 56 59		-	146°	H 14 37 46 .04 deep (USCGS)
	ipPKPZ	58 02		-		
	iXZ	15 00 17		-		
26	iPKPZ	18 22 50		-	155°	H 18 02 50 (USCGS)
	iPKPZ	23 12		+		
	iPPN	26 42		+		
	iSKASE	33 22		+		
	eSSE	46 44				
	ME	19 28	20	9		
	MN	19 30	20	11		

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DURHAM UNIVERSITY OBSERVATORY, ENGLAND

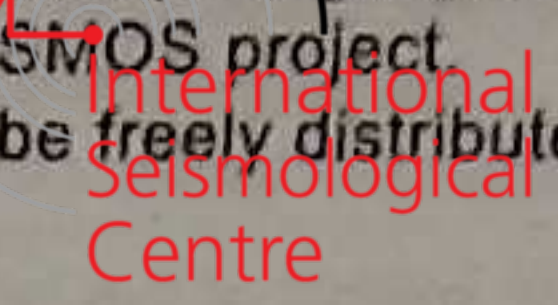
Position: 54° 46'N, 01° 35'W, height above M.S.L. 103 metres.

SEISMOLOGICAL BULLETIN FOR OCTOBER 1968

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
6	iPZ	15 12 21		-	27°	H 15 06 38 (BCIS)
7	iPZ	19 32 39		-	93°	H 19 20 20
	iXZ	32 41		+		.08 deep (USCGS)
	ipPZ	34 36		-		
	iPPZ	36 28		+		
	iXZ	36 35		-		
	iSKSN	42 27		+		
	iSN	43 07		-		
	iXN	45 34		-		
	isSN	46 19		-		
	iSSN	49 09		+		
	ME	20 11	20	28		
	MN	20 19	18	46		
	MZ	20 19	18			
	MN	21 38	20	14		
7	ePZ	21 01 01			79°	H 20 49 07 (USCGS)
	eSE	11 02				
	MN	21 37	20	15		
12	iPKPZ	19 36 14		+	146°	H 19 17 40
	ipPKPZ	38 45		-		.10 deep (USCGS)
14	iPKPZ	03 18 07		-	132°	H 02 58 48 (USCGS)
	ePPE	20 30				
	iPKSE	21 32		-		
	iSKSE	25 14		-		
	iSKKSE	27 18		+		
	iPSE	30 50		+		
	iXE	31 45		+		
	iSSN	37 59		-		
	MN	04 02	40	20		
	MN	04 11	23	15		
	MN	04 33	20	17		
	MN	05 04	20			
19	iSE	15 45 22		+	27°	H 15 34 57 (BCIS)

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October 1968 sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
4	MN	16 51	20	11	120°	H 15 51 19 .01 deep (USCGS)
8	iPKPZ	23 51 46		-	136°	H 23 32 29
	ipPKPZ	52 02		+		.01 deep (USCGS)
	iPPZ	55 18		+		
	iSKKSE	24 01 39		+		
	MN	24 53	20	8		
9	iPZ	22 26 10		-	57°	H 22 16 16 (USCGS)
	iPcPZ	27 13		-		
	iPPZ	28 19		+		
	iSE	34 03		-		
	iScSE	35 57		-		
	iSSE	38 00		-		
	MN	22 49	17	20		
	MN	23 00	19	30		
1	ME	03 41			27°	H 03 22 17 (BCIS)

10th July, 1969

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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 NOVEMBER 1968

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.
13	iPE iSN iSSE iXN MN	04 53 49 57 17 57 55 05 00 15 05 02	10	+ + + - 15	19°	H 04 49 33 (BCIS)
14	iPKPZ iPPZ	09 26 00 28 42		- -	139°	H 09 07 39 .09 deep (USCGS)
17	iPZ	10 08 09		-	29°	H 10 02 07 (BCIS)
18	ePN eSE MN	16 14 37 16 40 16 19	10	3	13°	H 16 11 16 (USCGS)
18	iPKPZ	18 45 50		-	145°	H 18 27 27 .11 deep (USCGS)
19	iPZ	17 11 40		-	59°	H 17 01 41 (USCGS)
11	ePN iSE MN MN	14 53 26 15 03 23 15 28 15 33	20 20	+ 4 5	81°	H 14 41 16 (USCGS)
13	MN	19 34	18		81°	H 18 41 48 (USCGS)
15	iPZ eSN MN	06 33 54 40 20 06 53	12	-	43°	H 06 25 36 (BCIS)
16	ePKPZ	08 05 00			142°	H 07 45 52 .01 deep (USCGS)
17	iPZ	00 27 10		-	71°	H 00 16 09 .03 deep

November, 1968, sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
22	iSKSE iSE MN	09 23 20 24 01 09 54	20	+ + 11	95°	H 08 59 23 (USCGS)
22	iPZ iXZ	10 09 23 23 35		- -		
26	iPZ	18 41 43		+	57°	H 18 31 52 (USCGS)
28	iPZ iPoPZ iPPE iSE iSoSE iXE ME	10 48 14 48 28 51 17 58 18 58 59 11 02 06 11 11	21	+ + + - + - 6	80°	H 10 36 08 (USCGS)
28	iPKPZ	16 49 22		-	128°	H 16 30 32 .03 deep (USCGS)

10th July, 1969

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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 DECEMBER 1968

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	eSE	13 38 35			90°	H 13 14 51 (USCGS)
2	iPZ	02 45 07		-	72°	H 02 33 42 (USCGS)
	iXZ	45 13		-		
	iPPZ	47 51		-		
	MN	03 19	20			
	MN	03 22	11			
3	iSN	21 04 26		-	17°	H 20 57 33 (BCIS)
4	iPZ	19 43 08		-	27°	H 19 37 23 (BCIS)
5	iPZ	07 57 52		+	26°.5	H 07 52 09 (BCIS)
	iSN	08 02 35				
	iSSN	03 58		+		
	MN	08 09	15	6		
5	iPZ	09 47 28		+	13°.5	H 09 44 09 (BCIS)
	iSE	50 27		-		
	iSSE	50 55		-		
	iXE	51 12		+		
	ME	09 54	10	50		
	MZ	09 54	10			
	MN	09 56	07	48		
MZ	09 56	07				
MN	10 00	10	32			
7	iPPE	05 19 00		+	123°	H 04 57 49 (USCGS)
	iSSE	35 47		+		
	MN	06 10	20	10		
	MN	06 13	20	15		
7	iPKPZ	21 55 17		-	145°	H 21 35 45 .01 deep (USCGS)

December, 1968, sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
19	iPZ	15 27 20		-	71°.5	H 15 15 56 (USCGS)
	MN	16 07	15			
19	iPZ	16 41 28		+	73°	H 16 30 00 (USCGS)
	iXZ	41 37		+		
	iPcPZ	41 50		-		
	iXZ	42 07		-		
	iPPZ	44 26		-		
	iScSN	51 40		+		
30	iPZ	10 32 04		-	23°	H 10 27 06 (BCIS)
	iXZ	32 35		+		

10th July, 1969

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