



DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR JANUARY 1967

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	07 25 22		-	140°	H 07 05 49 (USCGS)
	iPPZ	28 13		-		
	MI	08 23	20	10		
4	ePN	06 04 04			23°	H 05 58 56 (BCIS)
	eSN	08 10				
5	iPE	00 24 48		-	59°5	H 00 14 40 (USCGS)
	iPPZ	27 06		-		
	iSE	32 56		+		
	iPSE	33 22		+		
	iScSE	34 32		+		
	iSSN	36 35		+		
ME	00 49	20	870			
6	ME	00 49	22	3	79°	H 00 04 03 (USCGS)
9	iPZ	18 20 31		-	79°	H 18 08 24 (USCGS)
	iSN	30 30		+		
11	iPZ	11 28 07		-	39°	H 11 20 46 (BCIS)
	MI	11 46	19	4		
17	ePZ	01 20 17			98°	H 01 07 54 .10 deep (USCGS)
	eSE	30 58				
17	iPZ	12 11 49		-	82°	H 11 59 31 (USCGS)
	iXZ	11 53		-		
	iPcPZ	12 03				
	iSE	22 03				
	iScSE	22 22		+		
	ME	12 43	24	33		
	MZ	12 51	20	33		
18	iPZ	05 44 37		-	59°	H 05 34 33 (USCGS)
	iPcPZ	45 31		-		
	iDDE	46 57		-		

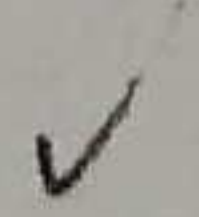
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sheet 2 January 1967

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction.	Epicentral distance	Notes
24	iPZ	09 39 13		+	58°	H 09 29 12 (USCGS)
	iPcPZ	10 04		..		
	iSN	47 17		+		
	GE	53 22				
	ME	10 06	15	35		
25	iPZ	01 58 58		..	52°	H 01 50 19 .045 deep (USCGS)
	ipPZ	02 00 09		..		
	iXZ	00 28		..		
	iXZ	00 47		..		
	iPPZ	01 06		..		
28	iPZ	14 04 23		..	73°	H 13 52 58 (USCGS)
	iPcPN	04 42		+		
	iPPN	08 46				
	iSE	13 47		+		
	iSKSN	14 29		..		
	iSSN	18 24		..		
	MN	14 35	20	37		
	MN	14 41	18	52		
MZ	14 41	18				
28	iPZ	17 53 34		..	73°	H 17 42 01 (USCGS)
	iSN	18 02 58		..		
	ME	18 34	18	2		

October 13th. 1967





DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR FEBRUARY, 1967

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	ePE	01 16 13			50°	H 01 07 22 (BCIS)
	eSE	23 22				
2	ePKPE	06 44 34			117°	H 06 25 50 (USCGS)
	ePPE	45 47				
	iSKSN	51 45		--		
	iSSN	07 01 59		--		
	MN	07 28	20	4		
3	iPZ	14 13 02		+	21°	H 14 08 23 (BCIS)
	eSN	16 47				
	GE	17 44				
	MN	14 22	10	11		
4	iPZ	15 36 41		--	78°	H 15 24 47 (USCGS)
	iPcPZ	36 58		--		
	iPPN	37 37		+		
	iSN	46 31		+		
	iSKSM	46 54		-		
	iSSE	51 17		--		
	MN	15 59	32	210		
	ME	16 07	20	120		
MZ	16 07	20				
11	iPZ	09 37 31		+	58°	H 09 27 30 (USCGS)
15	iPZ	23 18 47		--	19°	H 23 14 26 (BCIS)
	iSN	22 24		+		
	MN	23 27	10	300		
	MZ	23 28	10			
16	iXZ	01 47 55		+	83°	H 01 36 05 (USCGS)
	iPZ	48 37		--		
	iPcPZ	48 45		--		
	iXZ	49 24		--		
	iSN	59 15		+		
	iXE	02 00 00		--		
	iSSE	04 45		+		

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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 1967

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
4	iPKPZ	06 35 38		+	143°	H 06 16 22 .04 deep (USCGS)
4	iPZ	09 29 15		-		?
4	iPZ	18 03 13		+	24°	H 17 58 01 (BCIS)
	iPPN	03 49		-		
	iSN	07 33		-		
	iSSN	08 33		-		
	ME	18 14	12	250		
4	iPZ	18 43 18		-	24°	H 18 38 00 (BCIS)
14	iPZ	07 09 21		+	71°	H 06 58 05 (USCGS)
18	iSKPZ	09 48 36		-	146°	H 09 27 43 .10 deep (USCGS)
19	iPZ	04 13 33		-	77°5	H 04 01 37 (USCGS)
	iPcPZ	13 55		-		
	iPPZ	16 35		-		
	iSE	23 19		+		
	iSKSE	23 31		-		
	MN	04 54	13	18		
20	iPZ	13 43 27		-	77°	H 13 31 34 .01 deep (USCGS)
24	ePKPZ	09 18 22			114° 128°	H 09 00 19 .10 deep (USCGS)
24	ePZ	17 40 47			10°5	H 17 38 15 (BCIS)

DURHAM UNIVERSITY OBSERVATORY, ENGLAND.

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

SEISMOLOGICAL BULLETIN FOR APRIL 1967.

I Instruments:- Wilson-Lamson 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 iPPZ iXE eSE ME	06 06 13 09 17 15 40 16 13 06 44	18	- - - + 6	77°.5	H 05 54 19 (USCGS)
1	iPZ	06 09 00		+	77°.5	H 05 57 09 (USCGS)
1	iPZ iSE	12 35 28 45 30		+ +	77°.5	H 12 23 35 (USCGS)
1	iPZ	12 44 16		+	13°	H 12 41 41 (USCGS)
3	iPZ	07 46 50		-	46°	H 07 38 28 (USCGS)
3	iPKPZ iPKPZ	13 18 17 18 29		+ -	145°	H 12 58 41 (USCGS)
10	iPPZ	15 24 00		-	128°	H 15 02 42 (USCGS)
10	iPKPE MN	17 09 47 18 26	20	+ 5	169°	H 16 47 50 (USCGS)
10	iPZ	20 08 51		-	65°	H 19 57 34 .01 deep (USCGS)
12	iPZ iXZ iSKSE iSN iXE iSSN MN	05 04 44 05 17 15 05 15 30 16 29 21 40 06 40	30	- - + - + - 40	90°	H 04 51 40 (USCGS)
13	iPZ	20 06 30		+	88°	H 19 53 42

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DURHAM UNIVERSITY OBSERVATORY, ENGLAND.

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

SEISMOLOGICAL BULLETIN FOR MAY 1967.

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	07 13 54		-	$21^{\circ}.5$	H 07 09 02 (BCIS)
	iXZ	13 59		-		
	iPPZ	14 32		-		
	eXE	17 43		-		
	iSE	17 49		+		
	iSSE	18 35		+		
	ME	07 23	10	24		
1	iPZ	09 55 00		-	$21^{\circ}.5$	H 09 50 08 (BCIS)
11	iPZ	15 00 06		+	51°	H 14 50 59 (USCGS)
	iPoPZ	01 26		-		
	eSE	07 12				
	eXN	07 17				
	eSSN	10 49				
	MN	15 24	18	20		
13	iPZ	05 29 47		-	67°	H 05 18 55 (USCGS)
	iSE	38 39		+		
	ME	06 01	18	4		
14	ePZ	04 21 03			23°	H 04 15 58 (BCIS)
	eSE	25 09				
15	iPZ	02 40 28		-	87°	H 02 27 36 (USCGS)
	eSE	51 05				
15	iPZ	08 18 56		-	28°	H 08 12 56 (BCIS)
	iSE	23 41		-		
	ME	08 30	16	2		
16	iPZ	13 10 08		-	79°	H 12 58 09 (USCGS)
	eSN	20 14				
	ME	13 48				
17	iPKPZ	08 41 10		-	$139^{\circ}.5$	H 08 22 20 (USCGS)



May 1967 sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
27	iPZ	19 15 23		-	56°	H 19 05 49 (USCGS)
	iSE	23 06		+		
	iSSE	27 31		+		
	MN	19 41				
28	iPZ	04 16 27		-	46°	H 04 08 00 (BCIS)
29	iPKPZ	11 29 00		+	144°	H 11 09 54 .04 deep (USCGS)
	iPKPZ	29 02		-		
29	iPZ	21 13 37		-	79°	H 21 01 44 .01 deep (USCGS)
	iSE	23 24		+		

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DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR JUNE 1967

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
ePE eSE	03 47 34 56 45			70°	H 03 36 19 .01 deep (USCGS)
ePE eSE ME	10 45 08 49 39 10 56			27°	H 10 39 19 (BCIS)
ePE eSE ME	06 41 05 49 09 06 58	14		59°	H 06 31 28 (USCGS)
iPZ eSE	09 19 12 28 12		-	65°	H 09 08 56 (USCGS)
iPKPZ iPKPZ iSSE ME	01 41 01 41 11 02 03 18 02 52	20	- - +	146°	H 01 21 20 (USCGS)
iPKPZ iPPZ	13 41 46 44 09		+ -	146°	H 13 22 14 .01 deep (USCGS)
iPKPZ ipPKPZ	14 17 23 20 07		- +	145°	H 13 58 53 .10 deep (USCGS)
iPZ eSE	00 14 17 21 22		-	$51^{\circ}.5$	H 00 05 07 (USCGS)
ePZ iPZ eSE ME	02 56 13 56 18 03 00 23 03 07		-	24°	H 02 51 05 (BCIS)
iSKSN iSN MN	05 46 02 47 02 06 24	20	- - 10	104°	H 05 21 11 (USCGS)
ePZ	18 17 42			22°	H 18 12 48 (USCGS)

JUNE 1967 sheet 2

Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
ePPN	05 19 26			115°	H 05 00 12
iSKSE	25 05		+		.02 deep
isSKSE	26 15		-		(USCGS)
iPSN	29 10		+		
iSSN	34 43		-		
MN	06 03	19	5		
iPN	17 19 09		-	71°	H 17 07 45
iSE	28 32		+		(USCGS)
iSKSN	29 09		-		
MN	17 54	19	9		
ePN	07 50 10			71°	H 07 38 45
eSE	59 33				(USCGS)
eSKSE	08 00 18				
ME	08 25	19			
ME	07 35	20		83°.5	H 06 49 57
					(USCGS)
iPZ	15 58 20		+	91°.5	H 15 45 28
iSKSE	16 08 08		+		.01 deep
eSE	09 19				(USCGS)
MN	16 41	20	7		
eSSE	18 26 38			57°	H 18 04 49
					(USCGS)
eSE	18 30 30			57°	H 18 13 03
eSSE	34 32				(USCGS)
MN	18 47	19			
ePZ	20 23 06			99°	H 20 09 28
iPPZ	27 09		+		(USCGS)
eSKSE	33 22				
iSE	34 10		+		
ME	21 03	22	3		
ePE	15 48 58			73°	H 15 36 39
					(USCGS)
eSKSE	19 34 21			121°	H 19 08 33
ME	20 19	20			(USCGS)
iPZ	21 14 40		+	106°	H 21 00 24
MN	22 02				(USCGS)
ePPN	23 36 35			106°	H 23 18 04
eSSE	51 42				(USCGS)
MN	21 30				

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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 1967

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
iPE	07 41 26		-	97°	H 07 28 58 (USCGS)
iSE	52 28		+		
iPZ	23 21 14		-	70°	H 23 10 07 (USCGS)
iPcPZ	21 40		-		
iPPZ	24 10		-		
iSE	30 21		+		
iSKSE	30 46		-		
MN	23 54	20	40		
iPz	07 16 33		+	86°	H 07 03 53 (USCGS)
iPcPz	16 40		+		
iSKSE	26 50		-		
iSN	27 09		+		
ME	08 05	18	5		
ePZ	21 59 18			62°.5	H 21 48 51 (USCGS)
iPZ	23 53 54		-	77°.5	H 23 42 14 .03 deep (USCGS)
iPPZ	56 50				
iSN	24 03 25		-		
iSN	04 40		-		
iPZ	13 53 50			73°	H 13 42 23 (USCGS)
eSN	14 03 16				
MN	14 32	16	6		
ePZ	18 42 03			57°	H 18 32 15 .01 deep (USCGS)
eSN	50 02				
iPZ	19 29 23		+	55°	H 19 19 48 (USCGS)
eSN	37 03				
MN	19 45	12			
iPKPZ	10 00 39		-	145°	H 09 42 08 .09 deep (USCGS)
iPKPZ	01 08 08		-	139°	

JULY 1967 sheet 2

Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
iPZ	03 35 27		+	47°	H 03 27 00 (BCIS)
ePFN	13 54 13			114°	H 13 34 30
iXN	14 03 55		+		(USCGS)
iXN	04 58		-		
ME	14 34	21	13		
MN	15 44	21			
iPKPZ	13 00 10		+	145°.5	H 12 41 29 .08 deep (USCGS)
iPPZ	15 55 13		-	107°	H 15 36 20
iSN	16 02 58		-		(USCGS)
iSSN	10 46		+		
ME	16 32	29	25		
iPKPZ	23 31 09		+	151°	H 23 12 54 .10 deep (USCGS)
iPKPZ	13 05 22		-	145°.5	H 12 45 57 .03 deep (USCGS)
ePKPZ	04 18 03			158°	H 03 58 02
ePKPZ	18 33				(USCGS)
eSKSN	25 05				
eSKKSN	29 13				
ME	05 30	20	1		
iPnZ	11 00 11		-	04°	H 10 59 06
iPgZ	00 27		-		(BCIS)
iXN	00 35		-		
iSnN	01 01		-		
iXN	01 27		-		
iXZ	01 36		+		
ePZ	17 02 26		+	26°	H 16 56 52
iPZ	02 29		-		(BCIS)
iXZ	05 29		-		
iXZ	05 58		-		
iSN	06 53		-		
MN	17 13	11	360		
Mz	17 17	11			
MN	20 05	20	7		
iPZ	23 47 39		-	26°	H 23 41 56
iSE	52 13		+		(BCIS)

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JULY 1967 sheet 3

Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
iPZ	18 59 27		-	32°	H 18 52 55
eXE	19 04 35		+		(BCIS)
iSN	04 40		+		
iSSE	06 12		-		
eScSN	10 19				
MN	19 16	15	30		
ePZ	05 21 09			14°	H 05 17 48
eSN	23 37				(BCIS)
ME	05 26	12	4		
iFKPZ	14 44 31		-	146°	H 14 25 50
					.09 deep (USCGS)
ePZ	15 38 17			14°	H 15 34 58
ME	15 43	10	2		(BCIS)
eSE	02 27 21		+	14°	H 02 21 05
ME	02 29	12	2		(BCIS)
iPZ	10 35 43			74°	H 10 24 25
iXZ	36 24		+		.03 deep
ipFE	36 38		+		(USCGS)
iXZ	37 21		+		
iXZ	37 51		+		
iSN	45 00		-		
iSKSN	45 37		-		
iXN	46 19		+		
iXE	46 45		-		
ME	11 05	18	7		
iPZ	24 11 00		-	69°	H 23 59 59
iXZ	11 20		-		(USCGS)
iPTZ	13 29		-		
iSN	20 05		-		
iXE	21 19		-		
iSSN	24 35		-		
ME	24 40	20	35		
iPZ	01 36 33		-	26°	H 01 30 59
eSE	41 04				(BCIS)

DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR AUGUST, 1967

Instruments:- Wilson-Linson 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
ePZ	11 10 29		-	$16^{\circ}.5$	H 11 06 38 (BCIS)
iPZ	10 32		-		
eSE	13 20				
eXN	13 43				
ME	11 19	11	18		
iPZ	14 10 09		+	$16^{\circ}.5$	H 14 06 18 (BCIS)
eSE	13 11				
iXN	13 29		+		
ME	14 19	11	7		
ePPE	06 13 16			56°	H 06 01 10 (USCGS)
eSE	18 29				
ME	06 28	15			
iPZ	07 06 28		+	46°	H 06 58 00 (BCIS)
iSN	13 09		-		
iPZ	11 33 15		+	$77^{\circ}.5$	H 11 21 22 (USCGS)
iSN	43 00		-		
iPKPZ	09 59 13		+	150°	H 09 39 14
iPKPZ	59 16		-		.02 deep (USCGS)
ipPKPZ	10 00 00		-		
iPPZ	02 52		+		
iSSE	21 54		-		
ME	10 57	22	4		
iPZ	20 18 36		-	83°	H 20 06 51
iPcPZ	18 49		-		.06 deep (USCGS)
ipPZ	20 04		-		
iPPZ	21 46		-		
iSE	28 22		-		
iScSE	28 39		+		
isSE	31 11		+		
iSSE	33 49		+		
iPZ	22 10 30		+	12°	H 22 07 50 (BCIS)
iPTZ	11 04		-		
iXZ	12 34		-		

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AUGUST 1967 Sheet 2

Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
ePnZ	13 43 00			04° .5	H 13 41 49 (USCGS)
? ePnZ	13 42 54			02°	? H 13 42 19 (KEW)
iPKPZ	13 20 48		+	118°	H 13 02 07 (USCGS)
iPPZ	21 57		-		
iPSN	31 49		+		
? iPZ	14 35 28		-		
iXZ	35 38		-		
ePZ	03 33 14			78°	H 03 21 18 .01 deep (USCGS)
ePKPZ	10 52 16			139°	H 10 32 53 (USCGS)
ePPZ	55 11				
eSkSE	59 19				
eSSN	11 13 18				
MN	11 55				
iPZ	00 50 53		-	106°	H 00 36 42 (USCGS)
iPPZ	55 16		+		
eSKSN	01 01 35				
iSPZ	04 18		+		
iPSN	04 22		-		
iSSN	10 23		+		
MN	01 47	18	5		
iPKPZ	18 39 40		-	140°	H 18 19 58 (USCGS)
iPZ	13 20 31		-	77°	H 13 08 56 .03 deep (USCGS)
ipPZ	21 13		+		
eSE	29 58				
iSKSE	30 58		+		
isSE	31 17		+		
iPZ	13 45 41		+	66°	H 13 34 53 (USCGS)
iPZ	15 36 44		-	66°	H 15 25 52 (USCGS)
eSE	46 10				
ME	16 06				
iPZ	21 20 44		+	24°	H 21 15 29 (BCIS)
eSN	25 01				
				77°	H 04 22 01
				77°	H 04 22 01



DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR SEPTEMBER 1967

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	ePE	22 53 31			77°	H 22 42 02 .02 deep (USCGS)
	eSE	23 03 22				
2	iPZ	03 50 13		-	17°	H 03 46 08 (BCIS)
3	iPZ	21 20 38		-	92°	H 21 07 31 (USCGS)
	iPcPZ	20 42		+		
	iPPZ	24 09		-		
	iSKSE	31 13		+		
	iSKKSE	31 21		-		
	iSN	31 35		+		
	iPSE	32 49		-		
	ME	21 56	27	120		
8	iPZ	02 09 25		+	20°	H 02 04 46 (BCIS)
8	ePPZ	22 56 12		-	106°	H 22 37 39 (USCGS)
	iPPN	56 16		+		
	iSKSN	23 02 34		+		
	iSSN	11 21		-		
	MN	23 43	19	2		
9	iPZ	10 19 19		+	98°	H 10 06 44 .09 deep (USCGS)
	ipPZ	21 29		-		
	iXN	22 39		-		
	iPPZ	23 24		+		
	iXE	23 39		-		
	iSKSN	29 03		-		
	iSE	29 50		-		
	iXN	31 17		-		
	isSN	33 02		+		
	iXE	35 02		+		
9	<i>PKP</i> ePPZ	17 12 17			154°	H 16 52 01 (USCGS)
	eSKSN	19 17				
	ME	18 21	19	8		

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SEPTEMBER 1967 SHEET 2

Site	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
12	eSKSN ME	21 15 34 23 05			126°	H 21 49 48 (USCGS)
13	iPZ eSE ME	18 52 38 19 02 12 19 30		-	72°	H 18 41 15 (USCGS)
15	iPZ iPPZ iSKSN iSE MN ME	00 41 18 44 10 51 28 51 37 01 18 01 21	24 20	- + + -	84°	H 00 28 40 .01 deep (USCGS)
15	iPZ iSN iXE ME	10 43 58 53 07 54 10 11 18	14	- - -	75°	H 10 32 49 .01 deep (USCGS)
19	iPZ ipPZ iPcPZ iPPZ iSN iXN iSSN MN	11 08 03 08 24 08 41 11 01 17 52 18 33 22 53 11 40	22	- + + - + - - 5	78°	H 10 56 09 .01 deep (USCGS)
20	iPKPZ iPKPZ MN	09 59 27 10 00 41 11 20	20	+ - 12	169°.5	H 09 39 15 (USCGS)
20	iPKPZ iXZ	10 51 18 52 17		+ -	169°.5	H 10 30 53 (USCGS)
20	iPKPZ	10 56 44		-	145°.5	H 10 37 20 .02 deep (USCGS)
22	iPZ ipPZ iSN MN	10 29 55 30 30 39 47 11 08	18	+ + + 6	78°	H 10 18 00 .01 deep (USCGS)
23	iPKPZ	07 15 22		+ -	147°	H 06 56 44 .10 deep (USCGS)
23	iPKPZ	07 23 27		+ -	170°	H 07 02 03 (USCGS)

SEPTEMBER 1967 SHEET 3

Site	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
28	eSE eSKSE	03 21 29 22 05			73°	H 03 00 31 (USCGS)
28	ePKPZ iPKPZ ME ME	05 16 03 16 08 05 59 06 14		+	127°	H 04 56 53 (USCGS)
28	iSE MN	16 03 53 16 24		+	62°	H 15 44 56 (USCGS)
30	iPE eSN ME	02 37 27 40 27 02 43		+	14°	H 02 34 39 (USCGS)
30	iPE ME	04 22 22 04 28		+	14°	H 04 19 43 (USCGS)
30	ePE iSE	08 10 17 20 29		-	86°	H 07 57 20 (USCGS)

6th May, 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 OCTOBER 1967

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	iPKPZ	00 31 27		+	146°	H 00 12 53 .10 deep (USCGS)
3	iPZ	18 28 34		-	78°	H 18 16 03 (USCGS)
	eSN	38 29		-		
	MN	19 02	20	6		
4	iPKPZ	17 40 50		+	128°	H 17 21 21 .01 deep (USCGS)
	iXN	43 46		-		
	MN	18 29	20	22		
4	ePN	21 50 50			13°	H 21 47 53 (USCGS)
9	iPKPZ	17 40 17		+	146°	H 17 21 49 .10 deep (USCGS)
	ipPKPZ	42 45		-		
	iPPZ	43 48		+		
	iSKKSN	49 33		-		
	iPSKSN	54 01		-		
	iSSN	18 02 56		+		
9	iPKPZ	18 51 42		+	146°	H 18 33 08 .10 deep (USCGS)
12	iPKPZ	06 53 37		+	146°	H 06 35 07 .10 deep (USCGS)
12	iPZ	13 04 15		+	71°	H 12 53 47 .08 deep (USCGS)
	ipPZ	06 17		-		
12	iPPZ	18 50 20		+	119°	H 18 31 37 (USCGS)
15	iPZ	08 12 27		-	77°	H 08 00 50 .03 deep (USCGS)
	ipPZ	13 05		-		



OCTOBER 1967 SHEET 2

Date	Phase and component	Time G.M.T.	Period sec	Amplitude microns and direction	Epicentral distance	Notes
21	iPZ	05 06 02		-	29°	H 05 00 00 (BCIS)
23	iPZ	08 39 16		-	89°	H 08 27 06 .08 deep (USCGS)
	iSKSN	49 28		-		
	eSE	50 19				
30	iPZ	06 12 27		+	46°.5	H 06 04 00 (BCIS)
31	ePZ	21 12 41			20°	H 21 08 10 .01 deep (BCIS)
	iPZ	12 44		-		
	iSE	16 25		+		
	iSSN	16 45		-		
	ME	21 23				

6th May, 1968

25	iPZ	01 12 06		+	88°	H 00 59 23 .01 deep (U.S.C.G.S.)
	iPZ	12 11		-		
	iPPZ	15 34		-		
	iSKSN	22 28		-		
	iSE	22 38		-		
	iPSE	23 48		-		
	iSSN	28 30		-		
	GE	35 38				
	MN	01 47	27	180		
	ME	01 56	15	55		
MZ	01 56	15				

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

SEISMOLOGICAL BULLETIN FOR NOVEMBER 1967

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	16 42 38		-	75°	H 16 30 57 (USCGS)
1	iPZ	17 07 29		-	$76^{\circ}.5$	H 16 55 43 (USCGS)
4	ePZ	14 42 34			77°	H 14 30 37 (USCGS)
	iPoPZ	42 50		-		
	iXZ	42 57		-		
	iSN	52 28		+		
	iSKSN	52 52		-		
	iXE	53 16		+		
	iXE	54 10		+		
	iXN	54 40		-		
	ME	15 16	20	20		
4	iPZ	16 39 11		-	84°	H 16 26 48 (USCGS)
	iSE	49 25		-		
	iSKSE	49 40		-		
10	iPZ	04 44 45		+	19°	H 04 40 15 (USCGS)
	iSN	48 30		+		
	ME	04 51				
11	iPZ	12 27 35		-	85°	H 12 14 57 (USCGS)
	iSE	38 00		+		
15	ME	22 27	20	10		
19	iPKPZ	17 49 00			147°	H 17 29 21 (USCGS)
21	iPN	17 06 35		-	19°	H 17 02 20 (BCIS)
	iSE	10 03		+		
22	iPKPZ	15 39 01		+	148°	H 15 19 27 (USCGS)
	iPKPZ	39 13		-		
23	iPZ	08 45 37		-	58°	H 08 35 49 (USCGS)
	iPoPZ	46 15		-		
	iXE	49 17		-		
	iSN	53 39		-		
	iSoSN	55 23		+		
	iSSE	57 48		+		
	MN	09 14	17	50		
23	iPZ	13 47 28		-	$25^{\circ}.5$	H 13 41 59 (USCGS)

DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR DECEMBER 1967

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	14 08 13		-	$74^{\circ}.5$	H 13 57 02 (USCGS)
	iPZ	08 15		+		
	iSE	17 37		-		
2	ePZ	09 31 29			$19^{\circ}.5$	H 09 27 12 (BCIS)
2	iPZ	12 49 06		-	$19^{\circ}.5$	H 12 44 45 (BCIS)
	eSN	52 43				
2	iPZ	20 17 15		-	73°	H 20 05 52 (USCGS)
	iSE	26 45		-		
	MN	20 48	16	4		
5	iPZ	09 16 28		+	74°	H 09 05 13 (USCGS)
6	iPKPZ	05 22 04		+	146°	H 05 03 41 (USCGS)
	iPKPZ	22 06		-		
10	iPZ	12 18 11		-	73°	H 12 06 50 (USCGS)
	iSE	27 23		-		
	MN	12 47				
10	iPZ	23 02 06		+	67°	H 22 51 20 (BCIS)
	iPcPZ	02 28		-		
	iSN	11 03		+		
	eSSN	15 28				
	GN	18 45				
	MN	23 35	20	25		
11	iPKPZ	20 00 21		-	$145^{\circ}.5$	H 19 40 53 (USCGS)
13	iPZ	10 49 52		-	76°	H 10 38 23 (USCGS)
14	iPZ	02 30 31		-	$59^{\circ}.5$	H 02 20 20 (BCIS)
	iSN	38 33		-		
14	iPZ	03 00 38		-	$28^{\circ}.5$	H 02 54 53 (BCIS)
	iSN	05 23		+		
21	iPZ	02 38 28		+	96°	H 02 25 22 (USCGS)
	iXE	48 23		-		