

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

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
iPZ	13.41.14	-	-	59°	H 13 31 18 (USCGS)
iPZ	17.12.45	-	-	78°	H 17 00 40 (USCGS)
iPPZ	15.40	-	+		
iSN	22.37	-	-		
iPSE	23.29	-	+		
iSSE	27.25	-	+		
MN	17.45.	20	255		
ME	17.51	14	70		
MZ	17.51	14			
iPZ	00.33.18	-	-	92°	H 00 20 15 (USCGS)
MN	01.10.	20			
iPZ	12.01.12	-	-	79°	H 11 49 10 (USCGS)
iPZ	08.06.11	-	-	59°	H 07 56 11 (USCGS)
iPKPZ	17.32.15	-	-	160°	H 17 12 39 .03 deep (USCGS)
iPZ	21.28.08	-	-	51°5	H 21 19 11 .02 deep (BCIS)
ePN	12.21.21	-	-	105°	H 12 07 09 .01 deep (USCGS)
iPPN	25.11	-	-		
iSKSE	32.05	-	+		
iSN	33.04	-	-		
MN	13.08	21	175		
MN	13.11	20	200		
MZ	13.11	20			
iPKPZ	07.39.36	-	+	151°	H 07 19 51 .01 deep (USCGS)
iPPN	43.32	-	-		
iSKKSN	49.53	-	-		
iSSN	08.02.37	-	-		
ME	08.45	-	-		
iPKPZ	17.27.12	-	-	151°	H 17 07 31 .01 deep

refid = 15804

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January 1970 sheet 2.

Phase and Time component G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
iPZ 18.04.45		-	92°	H 17 51 39 (USCGS)
iSKSE 15.10		-		
iSSE 21.54		+		
ME 18.40	22	14		
iPZ 15.27.31		-	09°5	H 15 25 17 (BCIS)
iSZ 29.16		-		
iXZ 29.28		+		
iXb 30.21		-		
eXN 30.33		-		
iPZ 09.41.17		-	72°5	H 09 29 43 (USCGS)
iPKPZ 23.24.34		+	146°	H 23 06 02 .10 deep (USCGS)
ipPKPZ 26.58		-		
iPZ 07.11.29		-	47°	H 07 03 00 (BCIS)
iPZ 11.13.31		-	20°	H 11 09 24 .04 deep (BCIS)
iPKPZ 08.47.33		+	139°	H 08 28 23 .03 deep (USCGS)
ipPKPZ 48.12		-		
iPKSN 51.04		+		
iSKSE 54.11		+		
iSKKSE 56.50		-		
iSSE 09.08.08		+		
ePZ 16.39.35		-	20°	H 16 35 01 (BCIS)
eSN 43.16		-		

September 18th 1970

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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 FEBRUARY 1970

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	ePZ eSE ME	05.21.11 31.26 05 58			83°	H 05 08 48 (USCGS)
5	iPZ iSKSE iSE iSSE ME ME	22 20 04 30 20 31 12 37 43 23 03 23.09			98°5	H 22 05 58 (USCGS)
6	iPZ	22.41 38			78°5	H 22 10 42 (USCGS)
8	iPZ	08 08 15			78°5	H 07 56 25 (USCGS)
13	iSKSE iSKKSE	16 04 41 07 14			109°	H 15 43 29 .10 deep (USCGS)
14	iPZ ME	11 30 08 12 07	20		89°	H 11 17 16 (USCGS)
15	ipPKPZ	21 55 09			150°5	H 21 36 23 .09 deep (USCGS)
17	ePN iSKSN iSN	05 59 47 06 10 08 11 00			102°	H 05 46 02 .01 deep (USCGS)
18	ipPKPZ ipPKPZ	15 42 43 43 46			146°	H 15 23 34 .04 deep (USCGS)
22	iPZ	23 45 01			16°	H 23 41 04 (BCIS)
26	eSE	15 50 53			73°	H 15 30 00 (USCGS)
25	iPZ iXZ	23 18 13 18 23			79°	H 23 06 00 (USCGS)

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February 1970 sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
27	ePE	01 57 14			79°	H 01 45 11 (USCGS)
27	iPZ	07 19 46		-	75°5	H 07 07 58 (USCGS)
	iSN	29 26		+		
	iSKSE	31 33		-		
	MN	07 48	25			
28	iPZ	11 03 47		-	73°	H 10 52 31
	iPcPZ	04 16		-		.02 deep (USCGS)
	ipPZ	04 33		+		
	iPPZ	06 25		-		
	iSE	12 58		-		
	iSKSE	13 35		-		
	isSN	14 07		-		
	iSSE	17 51		-		
	ME	11 24	19	130		

18th September 1970

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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 1970

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	eSSE	04 04 23			107°	H 03 30 35 (USCGS)
	ME	04 40	18	5		
4	iPKPZ	06 50 26		-	145°	H 06 31 56
	ipPKPZ	53 09		-		.10 deep (USCGS)
4	ME	15 34	20	5	104°	H 14 27 50
						.01 deep (USCGS)
5	ME	05 03	12		11°	H 04 56 25 (USCGS)
9	iPKPZ	15 20 43		+	143°	H 15 01 11 (USCGS)
	ePPZ	24 11				
	eSKKSE	30 49				
	eSSE	42 47				
	ME	17 24	20	13		
9	ePKPZ	18 50 31			144°	H 18 30 56 (USCGS)
10	iPZ	05 10 21		-	77°	H 04 58 26 (USCGS)
	iPcPZ	10 49		+		
	iPPZ	13 27		-		
	eSN	20 05		-		
	MN	05 48	20	6		
11	iPZ	22 49 19		+	56°	H 22 38 35 (USCGS)
	iSE	57 41		+		
	MN	23 16	22	8		
11	ePE	01 58 32			35°	H 01 51 48 (BCIS)
	ePE	02 04 07				
	ME	02 18	12			
14	ePZ	07 41 12			40°	H 07 33 43 (USCGS)

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March 1970 Sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
19	iPZ	23 45 07		-	75°	H 23 33 29
	iXZ	45 13		-		(USCGS)
	iPcPZ	45 21		-		
	iSN	54 59		-		
	iScSE	55 30		+		
23	iSE	00 42 37		-	80°	H 00 20 55 .02 deep (USCGS)
23	iPZ	02 03 34		+	64°	H 01 52 54 (BCIS)
23	iPZ	12 27 17		-	85°	H 12 14 53 .02 deep (USCGS)
23	iPZ	23 15 26		+	73°	H 23 05 00 (USCGS)
24	iFKPZ	10 54 29		+	130°	H 10 35 22 (USCGS)
	eSKKSE	11 03 28				
	eSSE	14 36				
26	iPZ	19 11 29		-	73°	H 19 00 00 (USCGS)
27	iPN	18 50 55		-	77°	H 18 39 19
	iXE	19 02 37		+		.03 deep
	iSSE	05 37		+		(USCGS)
	MN	19 14	19	40		
28	iPZ	21 07 55		+	26°	H 21 02 20
	iPPE	08 22		-		(BCIS)
	iPPFN	09 17		-		
	iPcPE	11 08		+		
	iSN	12 38		-		
	iScPZ	15 05		-		
	ME	21 19	12	480		
	MN	24 11	25			
28	iPZ	23 17 18		+	26°	H 23 11 39
	iSN	22 09		+		(BCIS)
29	iPZ	07 02 00			26°	H 06 56 20
	eSE	05 40				(BCIS)
	MN	07 14	11	5		
29	iPKPZ	10 27 26		-	141°5	H 10 08 20
	iPPZ	30 39		-		.04 deep

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March 1970 Sheet 3

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
30	iSKSN	17 11 24		-	105°	H 15 16 15
	iSN	12 37		-		.01 deep
	eSSN	20 06				(USCGS)
	MN	17 39	36	70		
	ME	17 45	20	50		
31	iPKPZ	15 45 48		-	145°	H 15 27 09
	iPKPZ	45 51		-		.09 deep
	ipPKPZ	48 08		-		(USCGS)

1st September 1970

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DURHAM UNIVERSITY OBSERVATORY, ENGLAND

Position 54°45'N, 01°35'W, height above M.S.L. 103 metres.

SEISMOLOGICAL BULLETIN FOR APRIL 1970

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	11 31 19		+	145°	H 11 11 42 (USCGS)
7	iPZ	05 47 25		+	95°	H 05 34 06 (USCGS)
	iPcPZ	47 35		-		
	iPPZ	51 18		-		
	iPPPZ	53 19		-		
	iSKSE	57 59		-		
	iSN	58 39		+		
	iPSE	05 00 01		+		
	iSSE	05 17		+		
	ME	06 25	28	420		
	ME	05 29	20	290		
	ME	05 38	14	150		
	MZ	06 38	14			
7	iPZ	09 37 24		-	95°	H 09 24 27 (USCGS)
7	iPZ	17 10 41		-	25°	H 17 05 08 (BCIS)
	iSN	15 18		-		
	iSSE	16 10		-		
8	iPZ	13 55 34		+	24°	H 13 50 27 (BCIS)
	iPPZ	56 12		-		
	iPcFN	59 28		+		
	iSE	59 47		+		
	MN	14 06	12	50		
8	ePZ	21 37 34			96°	H 21 23 57 (USCGS)
	iSKSE	47 59		-		
	iSN	48 37		+		
	iSSN	55 17		+		
	ME	22 17	20	23		
	ME	22 25	15	18		
	MN	22 30	12	10		
	MZ	22 30	12			
9	iPZ	00 11 59		+	77°5	H 00 00 15

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April 1970 Sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
11	iPZ	04 16 04		-		
	iPPN	18 28		+	61°5	H 04 05 41 (USCGS)
	iSN	24 25		-		
	ME	04 41	17	13		
2	ePZ	04 15 09			96°	H 01 01 11 (USCGS)
	iPPZ	19 09		-		
	iSKSE	25 44		-		
	iSE	26 24		+		
	iSSE	33 29		-		
	ME	04 53	28	190		
	ME	04 57	20	123		
	ME	05 05	15	100		
	MZ	05 05	15			
15	iPZ	13 27 51		+	95°	H 13 14 21 (USCGS)
	eSKSN	38 33				
	eSN	39 08				
	ISSE	45 28		-		
16	iPZ	02 08 34		-	86°	H 01 55 55 (USCGS)
	ESE	19 14				
16	ePZ	05 43 31			61°	H 05 33 17 (USCGS)
	iPcFN	44 29		+		
	iPPN	46 01		+		
	iSN	51 55				
	iScSN	53 29		-		
	iSSN	56 07		+		
	MN	05 57	24	50		
	ME	06 02	12	20		
	MN	06 12	15	65		
	MZ	06 12	15			
16	iPZ	10 48 03		+	27°	H 10 12 22 (BCIS)
	iSE	52 40		-		
	iSSE	53 45		-		
16	iPZ	22 44 24		-	22°	H 22 39 33 (BCIS)
18	iPZ	09 01 01		-	63°	H 08 50 41 .01 deep (USCGS)
	iSN	09 25		-		
18	iPZ	23 37 32		-	79°	H 23 25 35 (USCGS)
	iSN	47 35		+		
	ME	24 10	24	3		
	MN	24 18	17	4		
19	iPZ	01 26 06				

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April 1970 Sheet 3

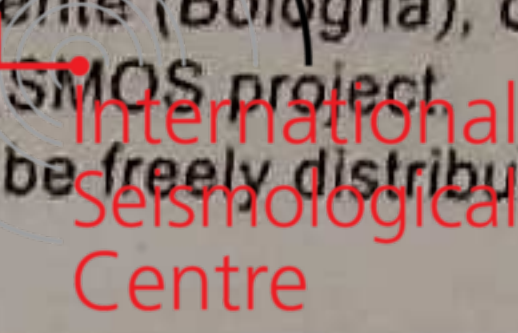
Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
19	iPZ	13 35 15		-	27°	H 13 29 38 (BCIS)
	iPPN	36 00		-		
	eSE	39 54				
	ME	13 45	18	19		
	ME	13 48	11	12		
	ME	13 50	15	18		
19	iPZ	13 53 12		+	27°	H 13 47 36 (BCIS)
	iSE	57 52		-		
	MN	14 03	12	10		
	MN	14 06	12	8		
19	iPKPZ	17 21 31		-	145°	H 17 02 59 .10 deep (USCGS)
20	iPKPZ	10 58 15		+	144°	H 10 39 13 .04 deep (USCGS)
	iPKPZ	59 47		+		
	iXE	11 16 53		-		
	iXE	19 55		+		
20	iPZ	15 44 36		-	23°5	H 15 39 32 (BCIS)
	iSE	48 48		+		
	iSSE	50 02		-		
22	iPZ	05 29 07		+	27°	H 05 24 12 (BCIS)
	iSE	33 07		-		
23	iPZ	01 03 30		-	41°	H 00 55 48 (USCGS)
	iPPN	05 01		-		
	eSN	09 22				
23	iPZ	09 06 56		+	26°	H 09 01 29 (BCIS)
	iSE	11 13		-		
	MN	09 16	12	6		
24	iPZ	01 27 37		-	19°	H 01 23 12 (USCGS)
	iSN	31 15		+		
	ME	01 34	12	10		
26 2b	iPZ	06 44 15		+	19°	H 06 39 51 (USCGS)
	iSE	47 47		-		
	ME	06 51				
26	iPN	14 31 58		+	73°	H 14 20 31 (USCGS)
	iSE	41 18		+		
	ME	15 08				
26	iPKPZ	15 59 22		-	147°	H 15 40 07 .02 deep (USCGS)
	iPKPZ	16 00 40		+		

April 1970 Sheet 4

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
29	iPZ	11 34 38		-	79°	H 11 22 36 (USCGS)
	eSE	14 34				
	iSSE	49 47		+		
	ME	12 11	18	28		
29	iSE	14 23 16		+	80°	H 14 01 19 (USCGS)
29	iPZ	14 13 34		-	80°	H 14 01 33 (USCGS)
	iPcPZ	13 54		+		
	iPPZ	16 44		-		
	iSE	23 29		+		
	iSKSE	23 54		-		
	iScSE	24 20		+		
	iSSE	28 37		-		
	ME	14 49	18	225		
	MZ	14 49	18			
29	eSKSE	21 42 45			80°	H 21 20 24 (USCGS)
	eSSE	47 52				
	ME	22 08	17			
29	eSE	22 11 07			80°	H 21 49 01 (USCGS)
	eSKSE	11 26				
	iSSE	15 24		-		
	ME	22 36	17			
30	ePZ	08 45 04			80°	H 08 32 59 (USCGS)
	iPcPE	45 17		-		
	iPPE	48 24		-		
	iSE	55 14		+		
	iSSE	09 00 28		+		
	ME	09 20	20	42		
	MZ	09 20	20			
30	iPE	13 03 40		+	80°	H 12 51 35 (USCGS)
	eSE	13 49				
	eSSE	19 06				
	ME	13 39	20	4		

September 24th 1970

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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 1970

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 ME	03 35 34 04 16	20	-	95°	H 03 22 13 (USCGS)
1	iPZ iSE ME	08 47 29 57 42 09 23	20	- +	80°	H 08 35 24 (USCGS)
1	iPZ	20 15 34		-	79°	H 20 03 28 (USCGS)
2	iPZ	02 19 04		-	79°	H 02 06 53 (USCGS)
4	ePKPZ	08 00 30		-	145°.5	H 07 40 52 .03 deep (USCGS)
4	iPKPZ ipPKPZ	11 44 10 44 45		-	146°.5	H 11 24 43 .02 deep (USCGS)
6	ePZ iSE	12 32 18 35 22		-	18°	H 12 28 08 (BCIS)
10	iPZ ipPZ	20 18 28 20 43		- +	102°	H 20 05 16 .10 deep (USCGS)
11	iPZ	03 20 57		-	47°	H 03 12 21 (BCIS)
14	iPZ eSN ME MN MZ	09 27 01 32 20 09 43 09 46 09 46	11 15	6 11	34°	H 09 20 24 (BCIS)
14	iPZ iXZ iXZ iSE ME MN MZ	18 19 04 19 32 21 19 24 24 18 35 18 38 18 38	15 15	- - + + 115 115	34°	H 18 12 21 (BCIS)
15	iPZ eSE	09 56 48 10 07 03		+	80°	H 09 44 45 (USCGS)

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May 1970 Sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
15	ePZ iPZ iPcPZ iSN iPSE iScSE iSSE MN	17 22 29 22 32 23 43 29 55 30 08 32 20 33 33 17 44	20	- - - - - +	53°	H 17 13 15 (USCGS)
15	iPZ	20 21 33		+	53°	H 20 12 17 (USCGS)
15	ePZ	21 00 15		-	58.5°	H 20 50 13 (USCGS)
17	ePZ eSE ME	06 56 28 07 01 47 07 14		-	33°	H 06 49 05 (BCIS)
18	iPZ eSE MN	01 34 06 37 12 01 39	15	-	17°	H 01 30 08 (BCIS)
20	ePKFN eSKSE iXE iXE iXN eXE MN	20 22 01 28 56 31 11 31 18 33 01 38 14 21 05	20	- + -	114°	H 20 03 42 .01 deep (USCGS)
20	ePZ MN	20 42 19 21 13	20	-	74°	H 20 30 55 (USCGS)
25	iPKPZ	17 07 45		+	154°	H 16 47 36 .01 deep (USCGS)
27	ePZ iPZ epPZ iXZ iPPE ipPPZ iSKSE iSE iSSE ME MZ	12 17 32 17 35 19 02 21 10 21 19 22 38 27 25 27 55 34 16 13 04 13 05	18	- - + - + + + - -	92°	H 12 05 06 .06 deep (USCGS)
27	iPZ iXZ	19 17 49 19 16		- -	81°	H 19 05 39 (USCGS)

May 1970 Sheet 3

Date	Phase and component	Time G.M.T.	Period sec	Amplitude microns and direction	Epicentral distance	Notes
27	iPZ	24 08 50		-	81°	H 23 56 40
	eSE	19 08				(USCGS)
	ME	24 43	20	4		
29	ePKPZ	19 21 36			136°	H 19 02 19
	ME	20 23	20			.01 deep (USCGS)
29	ePKPZ	20 49 16			146°	H 20 30 45
	iPKPZ	49 18		+		.10 deep (USCGS)
30	ePE	13 30 09			100°	H 13 16 27
	iSKSE	40 25		+		(USCGS)
31	iPZ	20 36 26		-	90°	H 20 23 27
	iPPN	40 29		+		(USCGS)
	iXE	46 46		+		
	iSKSN	47 09		-		
	iSN	47 30		-		
	iSSN	53 39		+		
	LRE	21 07 09		-		
	ME	21 12	~4	360		
	MZ	21 12	24			
	ME	21 19	18	190		
	MZ	21 19	18			
MN	22 54	20	24			
31	iPZ	22 01 04		-	91°	H 21 48 04 (USCGS)

September 29th 1970.



DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR JUNE, 1970

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	01 49 19		-	91°	H 01 36 10
	eSKSN	59 56				(USCGS)
	eSE	02 00 17				
1	iPZ	02 58 31		-	91°	H 02 45 21
	iSKSE	03 08 45		-		(USCGS)
	iSE	09 11		+		
1	ePZ	04 58 01			91°	H 04 44 46 (USCGS)
	ePZ	17 56 25			80°	H 17 44 15 (USCGS)
1	eSN	18 06 33				
	eSKSN	06 58				
	ME	18 24	21			
	ME	18 32	17			
	ePZ	01 50 20		-	91°	H 01 37 23 (USCGS)
2	iPcPZ	50 36		-		
	eSKSE	02 00 46		-		
	iSE	01 13		-		
	ME	02 24		-		
2	iPZ	03 10 03		-	61°	H 02 59 31
	iSE	17 52		+		.01 deep (USCGS)
	isSE	18 36		+		
	eSSE	22 15		+		
2	iPZ	23 45 34		+	77°	H 23 33 30 (USCGS)
	ePZ	04 22 26		-	91°	H 04 09 26 (USCGS)
4	iPcPZ	22 40		-		
	iSKSE	32 48		-		
	iSE	33 16		+		
	iSSE	39 52		-		
	ME	04 56	30	13		
5	iPZ	05 02 13		-	52°	H 04 53 01
	iPcPZ	03 29		+		(BCIS)
	iPPN	04 17		+		
	iSN	09 33		-		

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June 1970 sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
10	eFN eSN	05 23 17 27 47			27°	H 05 17 13 (BCIS)
10	iPZ eSN iSKSN eSSE MN	16 29 43 39 32 39 57 44 37 17 08	19	- - - 5	78°	H 16 17 49 (USCGS)
11	iPZ ipPZ iPPZ iSKSE iSE iXE iXE isSE ME	06 16 17 16 48 20 14 26 46 27 32 29 48 30 28 34 15 06 52	22	+ - - + + + - - 8	97°	H 06 02 55 .02 deep (USCGS)
11	iPZ epPZ	06 41 10 41 41		+		
11	ePKPZ iPKPZ eSKPZ iPPZ iXZ iXE iSKKSN iXE iXE isSE ME ME MZ ME MZ	17 06 59 08 10 10 22 12 11 12 24 13 59 18 37 20 37 28 08 32 57 18 02 18 21 18 21 18 27 18 27	40 20 20 18	- - - - - - + - - - 200 190 160	168°	H 16 46 38 (USCGS)
11	iPZ	17 49 40		+	52°	H 17 40 50 (USCGS)
12	ePZ eSE ME	05 05 21 14 08 05 36	17	4	66°	H 04 54 31 (USCGS)
12	ePSE MN	08 36 24 09 18	20	5	119°	H 08 06 17 (USCGS)
13	ePZ	05 39 23			73°	H 05 27 54 (USCGS)
14	ePKPZ iXZ ePPZ ME	00 19 07 19 15 20 46 01 06	20	- - 45	123°	H 00 00 11 (USCGS)

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June 1970 sheet 3

Date	Phase and component	Time G.M.T.	Period sec	Amplitude microns and direction	Epicentral distance	Notes
15	ePKPZ iSKSN eSKKSN eSSE MN ME MZ MN	11 33 49 40 35 42 07 52 28 12 15 12 22 12 22 13 59		- - - - 25 20 20 18	121°	H 11 14 52 (USCGS)
16	iPZ eSE	05 22 46 32 53		+	81°	H 05 10 33 (USCGS)
17	iPZ iSKSE iSE MN	04 57 21 05 07 43 08 08 05 25	20	+ + -	92°	H 04 44 21 .01 deep (USCGS)
19	iPZ ePPN iSKSN eSE eSSN MN ME	11 09 41 13 23 20 16 20 56 27 27 11 42 11 49	22 20	- - 5	97°	H 10 56 15 (USCGS)
19	iPZ iSN ME	14 34 29 41 54 14 52	20	- - 10	53°	H 14 25 18 (USCGS)
19	eSE ME	19 12 26 20 13	16		68°	H 18 52 34 (USCGS)
22	iPZ iSE iXN isSE MN	14 50 30 59 34 59 47 15 03 54 15 22		- + - -	69°	H 14 39 31 (USCGS)
22	iPZ iSN MN	21 45 32 55 28 22 26	13	- - 3	79°	H 21 33 33 (USCGS)
23	iPZ eSKSE	20 20 02 29 58		-	93°	H 20 06 57 .02 deep (USCGS)
24	iPZ iSN MN	07 41 19 50 10 08 13	15	- + 4	66°	H 07 30 31 (USCGS)
24	iPZ iXZ iSN	13 19 59 20 19 28 51		+	66°	H 13 09 08 (USCGS)

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June 1970 sheet 4

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
24	iPZ	13 27 50		-	66°	H 13 17 01 (USCGS)
25	iPKPZ	05 33 07		-	131°	H 05 13 59 (USCGS)
	iXE	33 53		-		
	iPPE	35 18		-		
	iXN	36 29		+		
	iSKKSE	42 20		-		
	iSSE	53 13		+		
	MN	06 25				
27	iPZ	09 58 25		-	91°	H 09 45 29 .01 deep (USCGS)
	iSKSE	10 09 17		-		
	eSE	09 43				
28	ePKPZ	01 49 47		-	118°	H 01 30 13 (USCGS)
	iPPZ	50 18		-		
	MN	02 39	25	11		
28	iPZ	02 06 29		-	47°	H 01 58 00 (BCIS)
28	iPZ	11 13 11		-	72°	H 11 01 53 (USCGS)
	eSN	22 24				
28	iPKPZ	11 28 29		-	147°	H 11 09 54 .10 deep (USCGS)
	epPKPZ	30 48		-		
	iSKKSE	37 34		-		
28	ME	13 53	14	3	21°	H 13 40 28 (BCIS)

21st October, 1970

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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 1970

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.

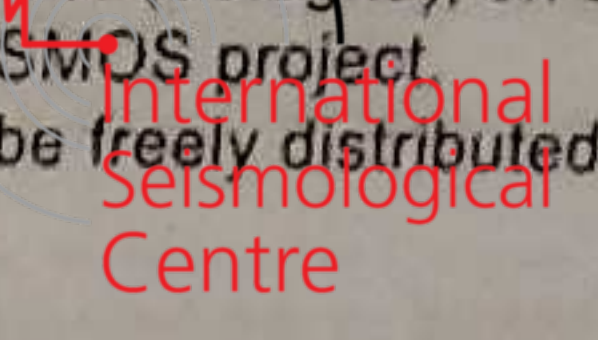
Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
2	iPZ	00 58 15		+	91°	H 00 45 02 .01 deep (USCGS)
	iSKSE	01 08 09				
	iSSE	14 51		+		
	ME	01 32				
	MN	02 36				
3	eSE	10 10 24			73°	H 09 50 33 .04 deep (USCGS)
8	iPZ	04 59 04		+	60°	H 04 49 11 .02 deep (USCGS)
	ipPZ	05 00 02		+		
	ePPE	01 15				
	iSN	07 06		-		
	isSN	08 01		+		
	iScSE	08 58		-		
	eSSE	11 01				
	ME	05 22	18			
9	ePE	08 23 19			78°.5	H 08 11 10 (USCGS)
9	iPZ	12 23 57		-	78°.5	H 12 11 59 (USCGS)
10	iPZ	16 29 41		-	86°.5	H 16 16 57 (USCGS)
10	eSKSE	21 30 26			96°	H 21 06 38 .01 deep (USCGS)
12	ePE	09 31 44			101°	H 09 17 59 (USCGS)
	ME	10 21	17			
16	iPKPZ	07 57 26		-	150°.5	H 07 38 01 .03 deep (USCGS)
16	iPZ	17 00 09		-		
16	iPKPZ	21 37 26		-		

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Sheet 2 July 1970

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
17	iPKPZ	20 24 27		-	147°	H 20 04 47 (USCGS)
	iPKPZ	24 29		-		
	ME	21 32	20			
18	iRN	02 00 12		-	74°	H 01 48 39 (USCGS)
	eSE	09 42		-		
	iSSN	10 44		-		
	ME	02 43				
21	iPZ	01 26 49		+	51°	H 01 18 05 .03 deep (USCGS)
24	iPZ	04 05 29		+	47°	H 03 57 00 (BCIS)
25	ePZ	22 53 43		-	85°	H 22 41 11 (USCGS)
	iPZ	53 48		-		
	iPcPZ	54 00		+		
	iPPN	57 00		-		
	iSN	23 04 03		-		
	iSKSN	04 09		+		
	iSSE	09 23		+		
	MN	23 27	27	300		
	MN	23 36	16	150		
	MZ	23 36	16			
MN	25 36	16				
26	iPZ	07 23 06		-	85°	H 07 10 36 (USCGS)
	iPcPZ	23 18		-		
	ePPN	26 21				
	eSN	33 25				
	eSKSN	33 46				
	ME	07 57	25	30		
	MN	08 06	16	22		
MZ	08 06	16				
29	ePZ	06 00 18			53°	H 05 50 54 (BCIS)
	ME	06 24	15	5		
29	iPE	10 27 46		+	73°	H 10 16 19 .01 deep (USCGS)
	ipPE	28 04		+		
	iPcPE	28 09		-		
	iPPZ	30 30		-		
	iSE	37 05		-		
	iSPN	37 39		-		
	iScSE	37 49		-		
	ME	11 03	19	30		
	MZ	11 06	11			
	30	iPZ	01 00 15			
ipPE		01 49		-		
iSE		06 27		-		

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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 1970

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	07 20 20		+	130°	H 07 01 12 .01 deep (USCGS)
	ipPKPZ	20 34		-		
3	iPZ	22 43 17		-	93°.5	H 22 30 03 (USCGS)
	iSE	54 14		+		
	eSSE	23 00 33				
5	iPZ	05 38 53		-	90°	H 05 25 58 (USCGS)
	eSKSE	49 41				
	eSE	50 00				
5	iPZ	09 18 24		-	54°	H 09 09 31 (BCIS)
	eSN	26 13				
5	iPZ	13 30 10		-		
7	eSKSN	16 57 18			93°	H 16 33 29 (USCGS)
	eSN	57 46				
8	ePPZ	21 23 29			110°	H 21 04 06 (USCGS)
	eSKKSN	30 05				
	eSSN	38 56				
	MN	22 04	20			
9	iPZ	20 09 12		-	086	H 20 09 00 (EDINBURGH)
	iSN	09 20		+		
	iLN	10 03		+		
10	iPKPZ	15 34 45		-	138°	H 15 15 20 (USCGS)
	ePPN	37 30				
	iSKPZ	38 18		+		
	MN	16 38	20	3		
11	iPZ	03 58 33		-	57°	H 03 48 52 (USCGS)
	iPcPN	59 31		-		
	iSN	04 06 23		-		
	iScSN	08 17		-		
	MN	04 25	18	15		

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August 1970, sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
12	iSKPZ iSSN MN	02 02 32 20 13 03 02	20	- +	138°	H 01 39 37 (USCGS)
12	ePZ eSN iSSN ME ME	09 36 06 46 09 51 28 10 06 10 12	20 20	+ 15 17	78°	H 09 24 11 (USCGS)
12	eFN eSN MN	10 36 18 46 37 11 07	20		78°	H 10 24 24 (USCGS)
18	iPZ ePPN iSN MN	18 02 24 04 49 10 44 18 30	19	+ +	61°	H 17 52 06 (USCGS)
19	ePZ iPZ eSN iSN iSSE ME	02 06 19 06 24 09 58 10 03 10 23 02 18	12	- - 4	20°	H 02 01 54 (BCIS)
23	iPZ iSN ME	11 11 47 15 29 11 18	15	+ -	20°	H 11 07 17 (BCIS)
24	ePKPZ iPKPZ iPPZ eSKKSE iSSN ME	12 50 19 50 48 54 28 13 01 16 14 31 13 58	20	+ - + 6	158°	H 12 30 19 (USCGS)
25	iPZ eSN ePcPZ iXE	01 44 16 47 39 49 01 50 16		- +	18°	H 01 40 12 (BCIS)
25	ePKPZ ipPKPZ	12 05 16 07 18		-	149°	H 11 46 39 .08 deep (USCGS)
26	iPZ iXN eSKSE eSN eSSN	15 25 02 33 19 35 32 36 13 42 33		+ +	92°	H 15 11 55 (USCGS)

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August 1970, sheet 3

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
26	iPKPZ ipPKPZ	18 33 04 35 15		- -	145°	H 18 14 27 .09 deep (USCGS)
27	ePKPZ epPKPZ	13 20 08 22 41			147°	H 13 01 39 .10 deep (USCGS)
27	iPKPZ	16 42 05		-	140°	H 16 22 25 (USCGS)
27	iPZ iSN eSSE ME	19 56 53 20 06 58 12 09 20 32	19	- -	80°	H 19 44 42 (USCGS)
28	iPKPZ ipPKPZ iPN iXZ iSKSE iPSE iSSN ME	01 21 43 21 47 23 39 25 14 28 45 33 33 40 38 02 11	28	- + - + - - -	126°	H 01 02 49 .01 deep (USCGS)
28	ePKPZ ePPZ	10 26 01 30 22			159°.5	H 10 06 09 .01 deep (USCGS)
29	iPZ	01 55 02		+	82°	H 01 43 12 (USCGS)
29	ePZ iPZ	15 10 23 10 26			69°	H 14 59 23 (USCGS)
30	ePZ eSN	00 50 06 59 41			72°	H 00 38 40 (USCGS)
30	iFN iPcFN ipFN iPPZ iSN iSN iSN iSSN iPKPPKPF iXZ ipPKPPKPF	17 56 25 56 40 58 37 59 18 18 04 50 05 24 08 32 09 34 23 40 24 05 26 32		+ + + + + - + - - + -	71°	H 17 46 09 .10 deep (USCGS)

10th March, 1971.

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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 SEPTEMBER 1970

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	01 20			22°	H 01 06 42 (BCIS)
1	iPFZ iSKSN iSSE ME MN	05 29 28 35 58 44 25 06 03 06 15	30 19	+ + + 21 15	103°	H 05 11 16 (USCGS)
3	iFN iSE ME	05 38 27 43 40 05 53	25	+ - -	31°	H 05 32 12 (BCIS)
5	iFZ iXZ ipFZ iPFZ iSN iSKSE ieSE	08 02 46 02 52 05 02 05 37 11 25 12 00 14 48		+ - + + + - +	71°	H 07 52 28 .09 deep (USCGS)
5	ePE iSN ME	11 48 52 56 54 12 17		- - -	59°	H 11 38 46 (USCGS)
6	iFZ	04 11 29		-	47°	H 04 03 00 (BCIS)
7	iFZ iSN iXN	21 02 38 05 51 07 01		+ - +	16°	H 20 58 53 (BCIS)
12	iFZ eSN ME	14 42 45 52 30 15 16	15	- - -	76°	H 14 30 52 (USCGS)
14	iFZ eXN ePPN iSN eXE	09 57 12 10 00 22 00 42 07 16 13 01		- - - - -	81°	H 09 44 54 (USCGS)

September 1970, sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
14	iSSN MN	16 11 08 16 48	18	+	107°	H 15 36 51 (USCGS)
15	iPKFZ	09 54 44		-	145°	H 09 36 11 .10 deep (USCGS)
15	eSKSE eSE	11 19 57 21 10			104°	H 10 55 19 (USCGS)
16	iSKSE ME ME ME	02 14 07 02 48 02 52 02 57	29 20 18	-	107°	H 01 49 21 (USCGS)
17	iFZ iSKSE iSE	23 29 08 39 57 41 19		- + +	105°	H 23 15 02 .02 deep (USCGS)
18	iFZ iSE iSSE ME ME	02 10 23 13 33 13 51 02 16 02 20	15 10	- + + 4 3	17°	H 02 06 25 (BCIS)
18	iFZ iSE ME ME	16 16 08 19 30 16 21 16 22	15 12	- + - -	18°	H 16 12 06 (BCIS)
20	eSE	11 01 50			90°.5	H 10 37 49 (USCGS)
23	ipPKFZ ePPN MN ME	12 23 59 26 05 13 20 13 27	20 20	+ 4 5	127°	H 12 04 54 (USCGS)
23	iFZ iSN	23 00 28 10 14		- +	78°	H 22 48 34 (USCGS)
23	ME	24 34	19		127°	H 23 11 59 (USCGS)
24	eSE MN	17 04 35 17 36			68°	H 16 44 40 (USCGS)
26	iFZ iPcFZ iPPZ	12 14 24 14 41 17 32		- - -	77°	H 12 02 29 (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 1970 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	iSN	10 02 42		+	74°.5	H 09 42 29 .06 deep (USCGS)
8	iPZ	05 04 35		-	70°	H 04 53 22 (USCGS)
8	iPKPZ	07 17 51		-	147°	H 06 59 11 .03 deep (USCGS)
8	iPZ	23 48 11		-	78°	H 23 36 10 (USCGS)
9	iPZ eSE	13 57 54 14 04 12		-	50°	H 13 48 44 (BCIS)
10	iPZ	13 53 25		+	23°	H 13 48 23 (BCIS)
10	iPKPZ iPKPZ iSSE ME ME ME	22 19 47 20 23 43 44 23 31 23 51 24 00	 17 20 17	 - + +	157°	H 21 59 43 (USCGS)
11	iPZ	02 41 01		-	23°	H 02 35 29 (BCIS)
11	iPKPZ eSKKSE eSSE	03 37 17 47 09 04 00 01		-	157°	H 03 16 50 (USCGS)
11	iPZ iXE	05 41 26 50 23		- +	79°	H 05 29 17 (USCGS)
11	iPKPZ iPKPZ	05 57 28 58 01		+ -	157°	H 05 38 06 (USCGS)

Sheet 2, October 1970

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
14	ePZ iSE ME MN	18 27 40 37 36 19 01 19 08	 20 15	 + 9 12	78°	H 18 15 37 (USCGS)
14	ePZ eSE MN	21 26 02 36 07 23 08			79°	H 21 14 01 (USCGS)
16	iPZ iXZ ePPN eSE eSKSE eSSN ME	05 38 28 38 31 41 37 48 33 48 46 54 04 06 14	 20	 + - 4	81°	H 05 26 13 (USCGS)
18	iPKPZ	01 26 11		+	151°	H 01 07 21 .09 deep (USCGS)
18	iPZ eSN	06 19 28 26 31		-	50°	H 06 10 32 (BCIS)
21	iPZ	15 59 40		-	55°	H 15 50 05 (USCGS)
25	iPZ iSKSE eSE	12 13 38 24 16 24 31		- - -	89°	H 12 00 35 (USCGS)
25	iPZ iXZ iSE ME	15 22 29 22 39 32 57 16 03	 29	- + + 20	86°	H 15 09 49 (USCGS)
26	iPZ iSN iSSE MN	20 58 57 21 03 27 04 27 21 07	 15	- - - 9	25°	H 20 53 27 (BCIS)
31	ePKPZ iPPE iSKKSE iSSE ME	18 12 14 13 54 20 31 29 41 18 56	 22	 + - - 60	124°	H 17 53 09 (USCGS)

17th May. 1971

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

SEISMOLOGICAL BULLETIN FOR NOVEMBER 1970

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
5	iPZ	13 23 58		-	79°	H 13 11 53 (USCGS)
8	eSKSE eSKKSE iSSE ME ME	23 01 26 02 45 12 10 23 37 23 51	20 20	- 30 44	118°	H 22 35 47 (USCGS)
13	iSKSE iSE eSSN ME	14 40 46 41 43 48 46 15 11	22	+ + 39	99°	H 14 16 18 (USCGS)
14	iPZ iSKSN iSE iSSE ME MN MZ	08 11 14 21 53 22 09 28 01 08 49 08 56 08 56	20 14 14	- - + 50 47	89°	H 07 58 20 (USCGS)
15	iPKPZ	03 32 24		-	148°	H 03 12 57 .03 deep (USCGS)
18	iPE iSE MN	12 29 31 34 41 12 37	22	- -	31°	H 12 23 18 (USCGS)
18	iPKPZ	17 01 53		+	147°	H 16 43 14 .09 deep (USCGS)
20	iPZ	14 00 31		+	78°	H 13 48 24 (USCGS)
24	iPZ	05 18 14		+	75°	H 05 06 41 .02 deep (USCGS)
26	ePZ	03 23 12			71°	H 03 11 43 (USCGS)
27	iPZ	09 52 09		-	89°	H 09 39 23 (USCGS)
29	iPZ	06 12 10		-	67°	H 06 01 19

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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 1970

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 iXE iSN	01 07 15 10 22 10 45		- +	20°	H 01 02 43 (BCIS)
1	iPE iPPE iSN iSSE	12 03 33 04 31 08 37 10 23		- + - -	30°.5	H 11 57 26 (BCIS)
1	iPZ MN	21 21 15 22 00	20	+ 9	74°	H 21 09 37 (USCGS)
2	iPPZ iSSE ME	15 47 51 16 05 43 17 00	30	- + 53	135°	H 15 25 47 (USCGS)
2	iPKPE iPPE iSKKSE iSSE MN	16 13 40 16 16 23 33 34 18 17 17	20	- + + - 18	135°	H 15 54 20 (USCGS)
4	iEN iSN	02 05 17 10 08		- -	28°	H 01 59 26 (BCIS)
4	iPZ ME	17 22 22 18 00		+	97°	H 17 08 49 (USCGS)
6	iPZ iSE ME MN	20 32 56 43 10 21 06 21 10	20 20	- + 17 20	79°	H 20 20 52 (USCGS)
7	iPZ iPPZ iSKSN iSN iPSE iSSE ME	21 48 01 51 37 58 17 58 34 59 55 22 04 40 22 25	20	- - - - + 9	89°	H 21 35 21 .03 deep (USCGS)
8	eSKSE MN	19 55 07 20 27	20	14	104°	H 19 30 07 (USCGS)

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December, 1970, sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
10	iPZ	04 47 22		-	88°	H 04 34 39 (USCGS)
	iPoPE	48 05		-		
	iPPE	50 55		+		
	iSE	57 47		-		
	iSSE	05 03 48		-		
	ME	05 18	35	300		
	ME	05 22	20	115		
	MZ	05 22	20			
10	iPZ	05 45 35		+	87°	H 05 32 50 (USCGS)
10	iPZ	11 50 26		+	87°	H 11 37 42 (USCGS)
11	iPZ	07 39 34		-	21°.5	H 07 34 48 (BCIS)
	iSE	43 24		+		
11	iPZ	10 37 19		-	87°	H 10 24 36 (USCGS)
12	iPZ	07 08 13		+	37°	H 07 01 00 (BCIS)
	iPPZ	09 34		+		
	ME	07 20	13			
15	iPZ	21 28 05		+	87°	H 21 15 20 (USCGS)
16	ePZ	01 12 42			77°	H 01 00 47 (USCGS)
17	iPZ	07 09 29		+	46°	H 07 01 00 (BCIS)
20	ePZ	11 07 19			26°	H 11 01 48 (BCIS)
	iSE	11 54		-		
	ME	11 19				
23	iPZ	07 08 13		+	38°	H 07 01 00 (BCIS)
24	iPZ	08 12 26		-	78°	H 08 00 38 .02 deep (USCGS)
25	iPZ	13 03 19		-	57°	H 12 53 37 (USCGS)
	iSN	11 14		-		
	iSSE	15 07		+		
	ME	13 22	13	4		
28	iPKPZ	20 22 25		-	126°.5	H 20 03 25 (USCGS)
	ipPKPZ	22 46		+		
	iPEN	24 27		-		

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December, 1970, sheet 3

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
29	ePKPE	02 45 33			134°	H 02 26 12 (USCGS)
	ePEN	48 07		-		
	iSSN	03 05 48		16		
	ME	03 36	24	10		
	MN	03 46	20			
29	iPZ	08 14 43		+	87°	H 08 01 59 (USCGS)
	iSE	25 25		-		
30	iEN	21 02 07		+	20°	H 20 57 29 (BCIS)
	iPEN	02 22		-		
	iSN	05 45		+		
	iSSN	06 33		-		
	ME	21 08	16	15		

8th June 1971