

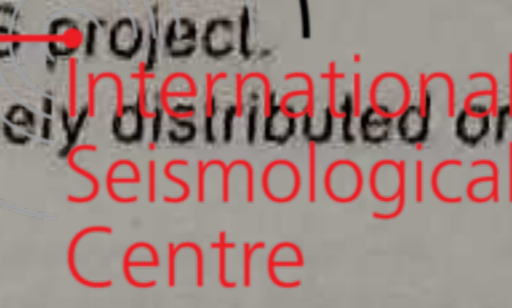
Position:- 54°46'N, 01°35'W, height above M.S.L. 103 metres

SEISMOLOGICAL BULLETIN FOR 1974 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 and direction	microns	Epicentral distance	Notes
1	iPKPZ	13 02 06		-		149°	H 12 43 16 .07 deep (USGS)
2	ePZ	10 55 45				95°.5	H 10 42 30 .01 deep (USGS)
	epPZ	56 17					
	iPPE	59 29		+			(USGS)
	iXE	11 04 07		-			
	iSKSN	06 12		+			
	iSN	06 47		-			
	iPSN	08 16		+			
	iSSE	12 59		-			
	ME	11 34	22		60		Mag. 6.9
5	iPZ	08 46 48		+		91°	H 08 33 51 .01 deep (USGS)
	ipPZ	47 13		+			
6	ME	10 18				18°	H 10 07 13 (USGS)
7	iPZ	15 32 14		-		40°.5	H 15 24 43 .01 deep (ECIS)
8	MN	22 51				102°	H 21 47 22 (USGS)
0	ePZ	05 30 21				73°	H 05 18 54 (USGS)
0	ePKPZ	09 10 37				139°	H 08 51 13 (USGS)
	iPKSN	14 12		+			
	MN	10 15	20		60		Mag. 7.1
0	iPZ	22 35 34		+		18°	H 22 31 48 (USGS)
5	MN	23 31	20			72°	E 22 50 30 (USGS)
8	iPZ	17 02 56		+		62°	H 16 52 43 (USGS)

refiol = 16808



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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 1974 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
24	iPZ	19 24 52		-	79°	H 19 12 52
	iPPZ	27 59		-		(USGS)
	iSE	34 53		-		
	eSKSE	35 13				
	iScSE	35 23		+		
	iSSE	40 34		+		
	MN	20 05	15	10		Mag. 6.0
26	iPZ	05 48 03		-	81°.5	H 05 35 34
	iPcPZ	48 15		-		(USGS)
	iSN	58 30		-		
	iScSE	58 51		-		
	iSSE	06 03 12		-		
	ME	06 19	30	16		
	ME	06 28	11	7		
30	iPZ	05 05 33		-	47°	H 04 57 00
						(BCIS)
30	ePKPZ	10 11 58			119°	H 09 53 12
	iSSE	29 00		-		(USGS)
	ME	11 10				
31	ME	08 01	17	10	85°	H 07 03 58
						(USGS)
31	iPKPZ	15 29 35		+	143°	H 15 10 29
						.09 deep
						(USGS)
31	iPKPZ	23 49 29		+	129°.5	H 23 30 05
	iSSE	24 09 04		-		(USGS)
	ME	24 34	30	75		
	ME	24 45	20	28		Mag. 6.8

7th August, 1974

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
1	ePZ	00 06 29			26°	H 00 01 02
						(BCIS)
1	iPKPZ	03 31 46		-	129°.5	H 03 12 33
	iXZ	31 51		-		(USGS)
	iPPE	35 29		-		
	iSKKSE	41 34		+		
	iSSE	51 21		+		
	ME	04 16	30	100		
	ME	04 30	20	50		Mag. 7.0
3	iPZ	10 21 52		-	91°.5	H 10 08 48
	iPPZ	25 33		-		(USGS)
	iSKSN	32 30		-		
	iSE	32 39		-		
	iSSN	39 00		-		
	ME	11 07	12	3		
5	iPE	15 10 55		-	26°.5	H 15 05 26
						.01 deep
						(BCIS)
6	iPZ	04 15 28		-	70°	H 04 04 07
	iSN	24 41		-		(USGS)
	ME	04 52				
8	iPKPZ	18 44 16		+	146°	H 18 24 32
	iPKPZ	44 18		-		(USGS)
16	ePZ	02 03 37			83°	H 01 51 11
						(USGS)
19	ME	04 25	19	28	97°	H 03 30 22
						(USGS)
						Mag. 6.6
22	iPKPZ	00 56 07		+	145°.5	H 00 36 36
						.01 deep
						(USGS)
22	iPZ	00 48 51			80°	H 00 36 36

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International  
Seismological  
Centre

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

SEISMOLOGICAL BULLETIN FOR 1974 MARCH

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
22	iPZ	03 42 22		-	52°	H 03 33 : (USGS)
25	iPZ	05 58 25		+	78°	H 05 46 : (USGS)
25	ePZ	18 11 48			3° .5	H 18 11 ( (BCIS)
	iSZ	12 39		-		
25	ePZ	20 04 33			3° .3	H 20 03 4 (USGS)
	iXZ	04 46		-		
	iXZ	05 08		+		
	iSZ	05 27		+		
	iXZ	05 29		+		
	iXZ	05 32		+		
26	iPZ	06 35 00		+	71°	H 06 23 4 (USGS)
27	ePZ	17 11 30			72° .5	H 17 00 0 (USGS)
27	iPZ	18 15 05		-	94° .5	H 18 01 4 (USGS)
28	ePKPZ	13 19 05			144°	H 12 59 3 (USGS)
28	ePKPZ	14 19 27			162°	H 13 59 1 (USGS)
	eSSN	44 24				
	ME	15 39				
28	iPKPZ	14 25 32		-	162°	H 14 05 2 (USGS)
28	iPKPZ	16 25 38		+	143° .5	H 16 06 1 (USGS)
28	iPZ	20 32 06		+	78°	H 20 20 1 (USGS)
	iSE	42 02		-		
	iSKSE	42 19		+		
	iSSE	47 41		-		
	ME	21 10	20	12		Mag. 6.1

14th August, 1974

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	05 03 19		+	84° .5	H 04 50 4 (USGS)
	iSE	13 40		+		
	iSKSE	13 57		-		
	iSSE	19 40		-		
	ME	05 37				
	ME	05 43				
3	iPKPZ	14 42 14		+	144° .5	H 14 22 3 (USGS)
	ePPZ	45 25				
4	ePKPZ	12 57 21			144°	H 12 38 3 .05 dee (USGS)
6	ePZ	01 52 09			77°	H 01 40 2 .01 dee (USGS)
	iPcPZ	52 40		+		
	iSE	02 01 46		-		
	iSKSE	02 01		-		
	iScSE	02 31		+		
	iSSN	06 55		+		
	ME	02 17	20	10		Mag. 6.0
6	ME	20 48	20		118°	H 19 29 0 (USGS)
7	ME	12 10			41°	H 11 36 0 (BCIS)
9	iPKPZ	20 37 14		-	129° .5	H 20 18 0 (USGS)
	iSKKSE	46 21		+		
	iSSE	56 20		-		
	ME	21 22	28	12		Mag. 6.4
11	iPZ	11 48 57		-	75°	H 11 37 3 .02 dee (USGS)
	iSE	58 20		+		
14	ePPZ	21 21 10			138°	H 20 58 5 (USGS)
	eSSE	39 50				

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International  
Seismological  
Centre

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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 1974 APRIL

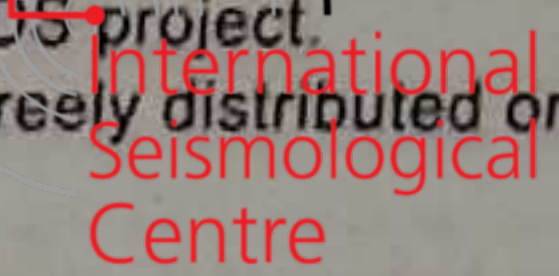
Instruments:- Wilson-Lamison seismometer free period 1 sec. coupled to G.E. galvanometer free period 3.4 sec., recording vertical component of velocity. Milne-Shaw free period 12 sec., damping ratio 20:1, magnification 250, recording N and E component displacements.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
18	iPKPZ	10 59 21		-	148° .5	H 10 40 34 .09 deep (USGS)
18	MN	12 15			139°	H 10 56 12 (USGS)
22	iSN	07 24 25		+	71°	H 07 04 06 (USGS)
22	ME	18 48			52° .5	H 18 13 41 (USGS)
22	iPZ	19 14 24		+	17°	H 19 10 25 (BCIS)
23	iPE eSE	07 13 32 17 17		-	19° .5	H 07 08 58 (BCIS)
23	iPZ eSE ME	07 23 43 27 11 07 30	11	+	19° .5	H 07 19 14 (USGS)
23	iPKPZ iXZ iXZ ipPKPZ iSKKSN isSE	14 47 21 47 26 47 37 49 28 56 57 15 09 28		- - + - - +	149°	H 14 28 35 .08 deep (USGS)
23	iPKPZ	15 12 57		+	149°	H 14 54 11 .09 deep (USGS)
23	iPKPZ	20 45 29		-	147°	H 20 25 52 (USGS)
24	iSKSN	04 45 48		+	107°	H 04 21 06 .01 deep (USGS)
24	iPZ ME	14 26 51 14 58	12	+ 5	66° .5	H 14 16 03 (USGS)
27	iPKPZ	03 27 16		-	152°	H 03 07 22 (USGS)
27	iPZ	16 40 32		-	75° .5	H 16 28 47 (USGS)
28	iPKPZ	02 18 49		-	145° .5	H 01 59 42 (USGS)
29	iPZ iPcPZ	22 01 19 01 32		- +	66°	H 21 50 35 (USGS)

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
2	ePKPZ	04 21 40 <sup>26</sup>			129°	H 04 02 34 (USGS)
6	iPZ	02 04 52 <sup>✓</sup>		-	68°	H 01 53 47 (USGS)
6	iPZ iPcPZ eSN eXE eScSE	04 07 05 <sup>✓</sup> 07 21 16 04 16 29 17 23		- - - - -	68°	H 03 56 02 (USGS)
6	ePZ	20 28 43 <sup>39</sup>			52°	H 20 19 37 (USGS)
6	iPZ iSN MN	14 28 36 <sup>29</sup> 33 32 14 41	12	- + 3	28° .5	H 14 22 52 (BCIS)
7	iPZ MN	13 23 06 <sup>22 59</sup> 14 16	22	+ -	76°	H 13 11 22 (USGS)
10	iPZ iPcPZ eSE ME	22 54 50 <sup>✓</sup> 55 15 23 04 37 23 57	18	- - - -	78°	H 22 43 01 (USGS)
11	iPZ	21 10 42 <sup>38</sup>		-	45° .5	H 21 02 19 (USGS)
14	iPZ	07 07 16 <sup>06 46</sup>		-	77°	H 06 55 02 (USGS)
17	ePZ eSE MN	00 38 41 <sup>33</sup> 43 40 00 47		- - -	31°	H 00 32 16 (BCIS)
17	iPZ	18 26 22 <sup>21</sup>		-	49° .5	H 18 27 26

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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 1974 MAY

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
21	iPKPZ	01 13 21 <sup>68</sup>		+	146° .5	H 00 53 (USGS)
22	MN	01 16	15		80°	H 00 29 (USGS)
25	iPZ	09 09 54 <sup>57</sup>		-	92°	H 08 56 (USGS)
26	iPZ	09 55 04		+		
	iXZ	55 26		+		
27	iPKPZ	07 44 37 <sup>36</sup>		-	151°	H 07 24 (USGS)
	iPKPZ	44 42		+		
	ipPKPZ	45 15		-		
28	iPZ	01 01 19 <sup>35</sup>		-	30°	H 00 55 (USGS)

3rd January, 1975

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	iPKPZ	09 28 51 <sup>45</sup>		+	150°	H 09 10 02 .08 deep (USGS)
	P	10 29				
5	iSKSE	06 21 10		-	89°	H 05 57 35 (USGS)
	iSE	21 22		-		
	ME	06 48				
	ME	06 55				
7	iPPZ	02 48 23 <sup>39</sup>		-	142°	H 02 25 11 (USGS)
	eSSE	03 06 22				
	ME	03 47	20	5		Mag. 6.0
	ME	04 43				
8	ePZ	23 46 06 <sup>07</sup>			85°	H 23 33 25 (USGS)
	iPcPZ	46 16		+		
	iPPZ	49 22		-		
	iSE	56 31		-		
	iScSE	56 39		-		
	iSSE	24 01 22		-		
	ME	24 21	20	55		Mag. 6.7
	MZ	24 33				
9	ePE	24 11 03 <sup>10 45</sup>			106°	H 23 56 38 (USGS)
	iXN	14 26		+		
	ePPE	15 25		+		
	iSKSN	21 34		+		
	iPSN	24 30		-		
	iSSN	30 11		-		
	ME	24 55	17	12		
	MN	24 58	20	12		Mag. 6.3
	P	25 46				
0	eSKSE	08 36 21 <sup>25 46</sup>			99°	H 08 12 05 (USGS)
	eSE	37 11				
0	iPZ	19 37 06 <sup>07</sup>		-	76°	H 19 25 18 (USGS)
	iPcPZ	37 12		-		

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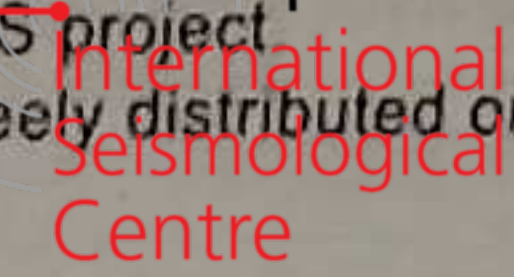
Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
11	ippz	01 02 33		-	109°	H 00 43 45 (USGS)
	iskse	08 32		+		
	iskkse	09 31		+		
	epse	12 01				
	epkse	13 08				
	isse	18 11		+		
	MN	01 50	20	7		Mag. 6.1
11	ippz	06 32 09		+	101°	H 06 14 09 (USGS)
	iskse	38 38		-		
	MN	07 12	20			
	MN	07 18	20			
11	ippz	13 20 14		-	111°	H 13 01 05 (USGS)
	ME	13 54	22	3		Mag. 5.7
11	ME	22 00			108°	H 20 53 16 (USGS)
12	ePE	10 19 13			93°	H 10 05 55 (USGS)
	eSKSE	29 28				
13	ipz	17 49 13 <sup>14</sup>		+	51°	H 17 40 28 (USGS)
	ippz	49 57		+		.03 deep
	ipcpz	50 21		-		(USGS)
13	iskse	19 19 21		+	103°	H 18 54 32 (USGS)
	eSE	20 23				
	MN	19 58				
15	ipn	13 45 19 <sup>44 55</sup>		-	42°	H 13 37 11 (USGS)
15	ipz	19 11 25 <sup>26</sup>		-	73°	H 18 59 56 (USGS)
	ipcpz	11 41		-		
	ippz	14 06		-		
	isn	20 50		+		
	iscsn	21 50		-		
	MN	19 44	20	9		
	MN	19 50	20	18		Mag. 6.2
16	ipz	03 11 27 <sup>28</sup>		+	46°.5	H 03 03 00 (BCIS)
16	ipz	20 12 20		-	92°	H 20 00 01 (USGS)
	eSKSE	22 04				.07 deep
	eSE	22 37				(USGS)
16	eSE	23 30 30			77°	H 23 07 47 (USGS)

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
17	ipz	14 30 57 <sup>49</sup>		-	14°.5	H 14 27 26 (BCIS)
	ise	34 04		-		
	ME	14 36	10	4		
17	ipz	15 35 22 <sup>34 54</sup>		-	89°	H 15 22 07 (USGS)
	ipcpz	35 37		-		.01 deep
	iskse	45 17		+		(USGS)
	ise	45 38		-		
	issn	50 13		-		
17	ipz	17 24 44 <sup>43</sup>		-	88°	H 17 11 51 (USGS)
	eSKSN	35 20				
	eSN	35 37				
	eSSE	41 25				
	ME	18 04	20	5		Mag. 5.8
	ME	18 10	12	5		
17	ePE	21 08 59 <sup>09 09</sup>			105°	H 20 55 11 (USGS)
	iskse	19 35		+		.01 deep
	eSE	20 35		+		(USGS)
	ipse	22 30		+		
18	ipz	23 43 22		-	14°	H 23 39 52 (BCIS)
	isn	45 40		+		
	ME	23 48	12			
19	ipz	22 06 46 <sup>47</sup>		-	27°.5	H 22 01 11 (USGS)
						.01 deep
						(BCIS)
26	ePKPN	01 51 42 <sup>43</sup>			142°	H 01 32 11 (USGS)
	ipn	02 49 30		-		
	MN	02 49				
26	ipkpz	06 06 13 <sup>12</sup>		+	147°	H 05 47 37 (USGS)
	ipkpz	06 15		-		.09 deep
						(USGS)
27	ipz	04 53 19 <sup>52 51</sup>		-	73°	H 04 41 24 (USGS)
	eSN	05 02 19				
	MN	05 31	20	5		Mag. 5.6
27	eSE	14 20 34 <sup>12 02</sup>			62°	H 14 01 43 (USGS)
	MN	14 40				
31	ipz	03 35 29 <sup>30</sup>		+	47°	H 03 27 00 (BCIS)
31	ipz	14 17 19 <sup>00</sup>		+	79°	H 14 05 00 (USGS)
	eSN	27 00				
	isksn	27 18		-		
	essn	32 17				



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Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
27	iPZ	02 01 (52) <sup>41</sup>		+	85 <sup>1</sup> / <sub>0</sub>	H 01 49 0
	iPPN	05 13		-		(USGS)
	iSE	12 21		+		
	MN	02 40	25	190		Mag. 7.3
27	eSE	05 12 15			84 <sup>1</sup> / <sub>0</sub>	H 04 49 1
	ME	05 45	12			(USGS)
28	iPZ	11 (14 01) <sup>13 59</sup>		-	19 <sup>0</sup>	H 11 09 40
	eSN	17 36		-		(USGS)
	ME	11 20	15			
29	iPN	01 11 (18) <sup>16</sup>		-	19 <sup>0</sup>	H 01 06 50
	iSE	14 59		+		(USGS)
	ME	01 18	14			
30	iPKPZ	08 53 (16) <sup>13</sup>		-	148 <sup>0</sup> / <sub>0</sub>	H 08 33 47
	iPKPZ	53 21		-		.01 deep (USGS)
30	iPZ	17 22 (06) <sup>14</sup>		+	80 <sup>0</sup>	H 17 10 15 (USGS)

15th February, 1975

DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR 1974 JULY

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.

(CEDDRESS calculations in red)

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
1	iPN	17 05 11		-	93 <sup>0</sup> / <sub>2</sub>	H 16 51 51 (USGS)
	iSKSN	15 47		+		
	eSN	16 23				
	eSSN	22 27				
	ME	17 47	20	6		Mag. 5.9
1	iPZ	23 23 16 <sup>08</sup>		-	78 <sup>0</sup> / <sub>5</sub>	H 23 11 15 (USGS)
	eSE	32 59		+		
	iScSN	33 37		-		
	eSSN	38 02				
	ME	23 54				
	iPKPZ	23 46 20 <sup>14</sup>		+	154 <sup>0</sup>	H 23 26 27 (USGS)
	iPKPZ	46 41		+		
iPPN	50 28		-			
2	iSKKSN	57 18		-		
	iXE	24 09 42		+		
	ME	24 52	20	60		Mag. 7.1
	ME	25 05	18	31		
	MZ	25 05	18			
3	ME	05 42	16		73 <sup>0</sup> / <sub>2</sub>	H 05 00 59 (USGS)
3	iPKPZ	23 45 01 <sup>14 57</sup>		-	154 <sup>0</sup>	H 23 25 09 (USGS)
	iPKPZ	45 21		-		(USGS)
4	ME	24 50	20	13		Mag. 6.3
	iPZ	19 40 30 <sup>31</sup>		+	57 <sup>0</sup> / <sub>0</sub>	H 19 30 42 (USGS)
	iXZ	40 37		+		
	iPcPZ	41 27		-		
	iSE	48 33		+		
	iSSE	52 25		+		
	iXN	20 01 41		+		
	MN	20 09	10	100		



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... day sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
10	iPZ	16 11 28		+	72 <sup>1</sup> / <sub>3</sub> 73	H 16 00 00 (USGS)
11	ePZ	05 48 26			70	H 05 34 22 (USGS)
	eSKSE	59 07				
	eSE	06 00 22				
	eSSN	08 01				
11	iPZ	18 00 11		+	17	H 17 56 19 (USGS)
	iSN	03 12		+		
	ME	18 06	13			
13	iPZ	01 30 10		-	75 <sup>1</sup> / <sub>3</sub> 76	H 01 18 23 (USGS)
	iPcPZ	30 30		+		
	iPPE	33 14		+		
	iSN	39 53		+		
	iSKSE	40 15		+		
	iScSE	40 32		-		
	iSSE	45 23		-		
	iGN	50 43		-		
	ME	01 59	20	110		Mag. 7.0
	MZ	01 59	20			
	MN	03 58	20	8		
13	iPZ	16 01 49		-	19 <sup>0</sup> .5	H 15 57 20 (BCIS)
	eSE	05 28				
	ME	16 08	14			
13	iPZ	18 10 31		-	76	H 17 58 41 (USGS)
	iSN	20 13		-		
	ME	18 49	18			
13	iPZ	23 20 33		-	76	H 23 08 42 (USGS)
14	iPZ	02 00 27		+	5 <sup>1</sup> / <sub>3</sub> 76	H 01 48 44 (USGS)
14	iPZ	02 25 36		-	5 <sup>1</sup> / <sub>3</sub> 76	H 02 13 50 (USGS)
14	KPZ	09 56 26			116 <sup>0</sup> / <sub>2</sub>	H 09 37 37 .01 deep (USGS)
	PPZ	57 15				
17	iPZ	05 13 45		-	20	H 05 09 21 .02 deep (BCIS)
	iSN	17 22		+		
18	PKP	24 08			140	
	PPZ	11 27 04		-	139	H 11 04 42
	SSN	45 24				

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
19	ePKPZ	18 04 31			128	H 17 45 44 .02 deep (USGS)
21	ME	09 17			79	H 08 28 35 (USGS)
22	iPZ	07 23 37		+	19 <sup>0</sup> / <sub>20</sub>	H 07 19 35 .03 deep (BCIS)
23	iPKPZ	11 18 15		-	144	H 10 58 47 .02 deep (USGS)
24	iPKPZ	04 26 33		-	112	H 04 07 33 (USGS)
24	ME	09 56	20		156 <sup>0</sup> / <sub>2</sub>	H 08 27 36 (USGS)
27	ePZ	04 37 56			69 <sup>0</sup> / <sub>70</sub>	H 04 26 47 (USGS)
	eSE	47 06				
28	iPZ	11 46 50		-	77	H 11 35 00 (USGS)
	iPcPZ	47 12		-		
	iSE	56 38		-		
	iScSN	57 09		-		
	MN	12 28	18	22		Mag. 6.3
	MZ	12 28	18			
29	iPZ	03 27 07		+	77	H 03 15 17 (USGS)
	iPcPN	27 22		+		
	iSN	36 56		+		
	iScSN	37 28		-		
	MN	04 08	18	17		Mag. 6.2
29	iPZ	07 28 18		-	77	H 07 16 26 (USGS)
	iPcPZ	28 33		-		
	iSN	38 05		-		
	eSSN	43 18				
	MN	08 07	19	19		Mag. 6.3
29	eSSE	09 43 39			123 <sup>0</sup> / <sub>2</sub>	H 09 09 50 (USGS)
29	iPKPZ	22 32 40		-	144 <sup>0</sup> / <sub>3</sub>	H 22 14 13 .09 deep (USGS)
30	iPZ	05 21 24		-	51 <sup>0</sup> / <sub>2</sub>	H 05 13 41 .03 deep
	ipPZ	22 16		-		

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1974 July sheet 4

Date	Phase and component	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
	ePZ	11 50 35		52° 1/2	H 11 41 27 (USGS)
	eSE	58 30		53	

1st January, 1975

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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 1974 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 displacement.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
1	iPZ	05 18 46		-	66° .5	H 05 07 59 (USGS) Mag. 4.5
	eSE	27 45				
	ME	05 50	18	15		
1	iPZ	06 06 27		-	66° .5	H 05 15 38 (USGS) Mag. 6.1
	iSE	15 19		-		
	ME	06 37	16	15		
1	iPZ	08 10 36		-	66° .5	H 07 09 57 (USGS)
	eSE	19 31				
	ME	08 42	20			
1	eSKSN	23 01 20			74°	H 22 39 31 (USGS)
	MN	23 30	20			
2	iPZ	14 46 13		-	86°	H 14 43 27 (USGS)
3	iPZ	18 29 02		-	83° .5	H 18 28 14 (USGS)
	eSE	39 18				
	ME	19 09				
4	iPZ	15 12 51		-	33°	H 15 06 15 (USGS)
	eSE	18 13				
	ME	15 28				
5	iPZ	13 28 22		-	47° .5	H 13 17 17 (USGS)
	iSE	35 18		+		
6	iPZ	17 00 53		+	76°	H 16 49 33 (USGS)
	ipPZ	01 23		-		
6	iPKPZ	18 57 51		-	146° .5	H 18 54 13 (USGS)
	eSKSN	19 05 12				
	eSSN	20 25				
	ME	20 09	18	1	Mag. 4.5	
7	eSE	08 43 17			66° .5	H 08 43 17 (USGS)
	eSKSN	44 30				
	ME	09 05	18			

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International  
Seismological  
Centre

Station	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Note
8	iPZ	19 29 39		-	87°	H 19 16
	iSKSN	40 14		+		(USGS)
	iSN	40 26		-		
	ME	20 07	20	35		Mag. 6.1
	ePN	23 29 06			19°	H 23 24
						(BCIS)
10	iPKPZ	11 40 57		+	146° .5	H 11 22
						.09 de (USGS)
	iPnZ	12 50 33		-	03°	H 12 49
	iPgZ	50 44		+		(BCIS)
	iSnZ	51 10		+		
	iSxZ	51 17		+		
	iSgZ	51 23		+		
	iXZ	51 26	03	12		
	iXN	51 42		+		
11	iPZ	01 22 59			51°	H 01 13
	iPcPZ	24 22		-		(USGS)
	iPPE	25 02		+		
	iScPZ	28 16		-		
	iSE	30 22		-		
	iPSE	30 39		-		
	iSSE	34 07		+		
	MN	01 47	15	310		Mag. 7.2
	MZ	01 47	15			
11	iPZ	05 21 38		+	52°	H 05 12
						(USGS)
11	iPZ	05 32 54		+	52°	H 05 23
	ME	05 56				(USGS)
11	iPZ	07 11 14		-	52°	H 07 02
	MN	07 35	18			(USGS)
11	iPZ	20 14 30		-	52°	H 20 05
	iPcPZ	15 47		+		(USGS)
	iSE	21 47		-		
	iSSN	25 37		+		
	MN	20 38	20	17		Mag. 5.9
11	iPZ	21 30 38		-	52°	H 21 21
	iSN	37 57		+		(USGS)
	eScSE	40 27				
	eSSE	41 37				
	ME	21 55	11	13		
12	ME	04 19	20	2	141° .5	H 02 52 4

Station	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Note
13	ePN	03 57 53		74°		H 03 46
	iPcPZ	58 18		+		(USGS)
	iXN	58 37		+		
	iSE	04 07 28		-		
	iSKSE	07 48		-		
	ME	04 37	20	6		Mag. 5.1
13	iPKPZ	13 12 13		-	141°	H 13 12
	ME	14 19	20			(USGS)
14	iPZ	15 07 07		-	36° .5	H 15 00
15	iSN	18 54 05		-	108°	H 18 27
						de (USGS)
16	iPN	09 53 05		-	74°	H 09 41
	iSE	10 02 27		-		(USGS)
	MN	10 29	20			
17	ePZ	05 24 06			67°	H 05 13
						(USGS)
17	ePZ	23 59 58			51°	H 23 50
	MN	24 25				(USGS)
18	ePKPN	11 02 21			111°	H 11 04
	iPPZ	03 25		+		(USGS)
	iSKSE	09 24		+		
	iSKKSE	10 35		-		
	iPSE	12 55		+		
	iSSN	19 00		+		
	ME	11 50	20	80		Mag. 5.1
	MZ	11 50	20			
	ME	11 55	16	77		
	MZ	11 55	16			
	ME	13 24	20			
19	ePZ	12 30 12			86°	H 12 27
						(USGS)
19	iPZ	20 06 40		-	78° .5	H 20 05
						(USGS)
20	iPZ	20 56 28		-	73° .5	H 20 56
	eSE	21 05 57				(USGS)
23	iPKPZ	05 09 08		-	118°	H 05 09
	ePPE	10 22				(USGS)
	eSKKSE	16 59				
	eSSE	26 14				
	ME	05 55	20			

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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 1974 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 displacement

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
	iPZ	10 52 36		-	72° .5	H 10 41 (USGS)
	eSN	11 02 13		-		
	iScSE	02 46		-		
	MN	11 32	15	3		Mag. 5.4
	ePZ	22 30 21			73°	H 22 18 (USGS)
	iPZ	01 31 29		+	88°	H 01 18 (USGS)
	iPcPZ	31 42		-		
	iSKSN	42 00		-		
	iSE	42 18		-		
	iScSE	42 33		-		
	MN	02 18	18			
	ePN	10 07 54			88° .5	H 09 55 (USGS)
	iXN	16 21		-		
	eSKSE	18 25		-		
	eSSN	24 30		-		
	iPKPZ	14 53 35		+	148° .5	H 14 34 .08 dec (USGS)
	iPZ	06 39 32		+	76°	H 06 27 (USGS)
	iPZ	13 05 04		-	51°	H 12 56 (USGS)
	eSN	12 13		-		
	MN	13 29	15	16		
	iPZ	17 43 01		-	51°	H 17 33 (USGS)
	eSN	50 13		-		
	iPZ	10 06 02		-	29° .5	H 10 00 (BCIS)
	iPPZ	06 52		-		
	iPcPZ	09 09		-		
	iXN	15 46		-		
	MN	10 22	12	6		
	iPZ	15 06 28		-	32°	H 15 00 (BCIS)
	iPZ	15 11 30		-	72° .5	H 15 00 (USGS)
	ePN	23 42 21			89° .5	H 23 29 (USGS)
	ePPN	46 01				
	iSE	53 10		+		
	iSSE	59 10		-		
	MN	24 19	20			
	MN	24 33	16	5		

11, 1975

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
3	iPZ	06 08 17		-	91° .5	H 05 5 (USGS)
	MN	06 46	20	6		Mag. 5.9
4	ePZ	06 34 27			24°	H 05 29 (BCIS)
	iSN	38 57		-		
	MN	06 48	12	10		
7	iPZ	19 51 11		-	30°	H 19 40 (USGS)
7	MN	21 39	36	32	109° .5	H 20 43 (USGS)
	MN	21 46	20	22		Mag. 6.0
13	iPZ	03 11 27		+	16° .5	H 03 03 (BCIS)
13	iPZ	08 04 07		-	19° .5	H 07 53 (USGS)
	iSSE	17 28				
16	iPZ	00 51 08		-	95° .5	H 00 38 (USGS)
16	iPZ	22 07 22		+	74°	H 22 55 (USGS)
	eSKSE	17 22				
17	iPZ	02 12 11		-	16°	H 02 01 (USGS)
	ME	02 42	15			
17	iPZ	05 15 15		-	20° .5	H 05 10 (BCIS)
	iPPZ	15 43		-		
	iSE	19 05		+		
	iSSE	19 44		+		
20	iPKPZ	19 44 08		+	11°	H 19 24 (USGS)
	iPKPZ	44 20		-		
20	iPKPZ	21 39 00		-	11°	H 21 20 (USGS)
	ME	22 25				

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BORGHATE UNIVERSITY OBSERVATORY, BORGHATE

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

SEISMOLOGICAL BULLETIN FOR 1974

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	iPK	03 00 07		-	148° .5	H 12 40
	iPK	00 18		+		(USGS)
1	iPK	19 45 24		-	147°	H 19 26 .09 d (USGS)
	iPKP	04 30 43		+	149°	H 04 10 (USGS)
	iPK	19 37 52			56°	H 19 28 (USGS)
	iPK	42 35		+		
	eSK	45 38		-		
	iSK	47 44		+		
	iSK	49 42		+		
	iPK	20 04	10	5		
2	iPK	15 11 27		+	72° .5	H 15 05 (USGS)
	iPK	03 22 49		+	86° .5	H 03 10 (USGS)
	iPKP	23 05		+		
	ePK	26 27		-		
	iSK	33 21		+		
	iScSE	33 32		-		
	eSSE	39 08				
	MZ	03 59	21	14		Mag. 6.2
	iPK	04 20 47			77°	H 04 09 (USGS)
	iSK	30 33		+		
	iSKSE	31 09		-		
	iScSE	31 16		-		
	eSSE	35 35				
	iPK	05 17 20		-	65° .5	H 05 26 (USGS)
	iSK	45 55		-		
	iPK	05 59 29		+	78° .5	H 05 47 (USGS)
	iPKP	59 43		-		
	iPPN	06 02 26		+		
	iSN	09 25		-		
	iSKSN	09 44		+		
	iScSE	09 55		-		
	iSSN	14 25		+		
	MN	06 41	19	80		Mag. 6.9
	MZ	06 41	19			
	ePK	16 01 06			52° .5	H 15 51 (USGS)
	iSE	08 27		+		
	ME	16 25	12			

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
1	iPPZ	04 26 00		-	106° .5	H 04 07 2'
	iSSN	41 06		+		(USGS)
	ME	05 03	27	6		Mag. 6.0
2	iPK	03 07 56		+	89°	H 03 55 00 (USGS)
	iSKSN	18 42		-		
	iSN	18 55		-		
	ME	03 43	27			
3	iPK	14 34 41		-	92°	H 14 21 29 (USGS)
	iPPZ	38 28		-		
	iSKSN	45 22		-		
	iSN	45 52		-		
	iSSN	52 06		+		
	ME	15 13	21	450		Mag. 7.7
	MZ	15 13	21			
4	iPK	22 34 13		+	56° .5	H 22 24 33 (USGS)
	iPPZ	36 37		-		
	MN	23 00	20	10		Mag. 5.8
7	iPK	10 04 16		-	75° .5	H 09 23 10 (USGS)
	iSN	12 57		-		
7	iPK	17 22 06		-	77°	H 17 20 36 (USGS)
8	ePK	10 00 54		+	89°	H 09 50 58 201 deep (USGS)
	iPK	00 56		-		
	iPKP	01 03		+		
	iPPZ	03 13		+		
	iSK	08 59		-		
	iSSN	09 17		+		
	iScSE	11 01		+		
	iSSN	12 51		+		
	CS	15 46		-		
	LS	18 06		+		

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Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
	iPZ	07 13 56		-	78°	H 07 32 0 (USGS)
	iPcPZ	14 11		+		
	iXZ	15 19		-		
	ePPZ	16 56				
	iSE	13 44		-		
	iSKSN	14 11		+		
	iScSP	14 16		+		
	iPSN	14 36		-		
	iSSN	18 48		-		
	MN	18 13	20	40		Mag. 6.6
	MZ	18 13	20			
10	ePZ	07 10 18			80°	H 06 48 1 (USGS)
	iPPZ	13 23		-		
	iXE	19 00		+		
	iSE	10 22		+		
	iSSN	15 36		+		
10	iPZ	07 18 59		-	80°	H 06 56 49 (USGS)
	iPPZ	12 06		-		
	iSE	19 01		-		
	ME	17 16	18	45		Mag. 6.3
	MZ	17 16	18			
10	ePZ	10 06 11			92°	H 19 52 59 (USGS)
11	ME	09 12			15° .5	H 09 12 19 (USGS)
11	iSKSN	14 35 20		+	88° .5	H 14 11 56 (USGS)
	iSN	15 26		-		
	iSSN	11 35		-		
	ME	15 02	20			
12	eSE	05 19 56			80° .5	H 04 47 31 (USGS)
	ME	08 37	18			
12	iPZ	06 27 03		-	80° .5	H 06 14 51 (USGS)
	iSE	17 06		+		
	iSKSN	17 19		-		
	eSSE	12 20				
	ME	07 14	19	10		Mag. 6.0
14	iPZ	14 23 54		+	80° .5	H 14 11 41 (USGS)
	iPPZ	26 52		-		
	iSN	14 07		-		
	iSSE	19 16		+		
	ME	17	22			

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
16	iPZ	05 40 38		+	18°	H 07 31 1 (USGS)
	eSP	44 06				
	MN	05 46	12	3		
16	iPZ	05 49 20		-	13°	H 07 41 0 (USGS)
	iPPZ	49 32		+		
	iPPZ	49 55		+		
	iSN	52 46				
	iSSN	53 26		+		
	MN	05 56	10	440		Mag. 6.6
	MZ	05 56	10			
16	iPZ	06 41 30		+	47°	H 07 31 0 (USGS)
16	iPZ	09 42 02		-	80° .5	H 09 29 4 (USGS)
18	iSKSN	09 29 51		+	120° .5	H 09 04 0 (USGS)
	iSKSN	31 13		+		
18	iPKPZ	17 37 16		-	150° .5	H 17 17 4 (USGS)
	iPKPZ	37 28		-		
	eSKKSP	47 56				
	iSSN	59 18		-		
20	iPZ	11 30 32		-	20° .5	H 11 21 5 (USGS)
	iPPZ	30 57		-		
	iSE	34 26		+		
	ME	11 40				
21	iPKPZ	04 30 56		+	143°	H 04 12 29 (USGS)
21	iPZ	12 59 27		-	70° .5	H 12 48 14 (USGS)
22	iPZ	05 09 52		-	15°	H 05 06 16 (USGS)
	eSP	12 39		-		
	ME	05 14	17	4		
22	iPZ	12 09 41		-	15°	H 12 06 11 (USGS)
	eSP	12 25				
	eSSN	12 39				
	ME	12 14	10	8		
	ME	12 16	15	5		
22	iPZ	21 59 11		+	95° .5	H 21 05 12 (USGS)
	iSKSN	23 09 57		-		
	iSN	10 33		+		
	ME	23 40	20	3		

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1974 October sheet 4

Date	Phase and component	Time M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
23	iPKPZ	04 10		-	130°	H 06 14 5
	iPPM	06 21		-		(USGS)
	iPKSN	07 31		-		
	iSKSE	11 04		-		
	iSKKSS	13 03		-		
24	eSSN	03 35				
	MM	04 24	20	60		Mag. 7.1
27	iPKPZ	03 55		-	130°	H 07 44 4
						(USGS)
28	iPZ	07 32		-	78°	H 00 05 3
						.01 deep (USGS)
29	iPZ	08 54		-	16° .5	H 01 05 1
						(BCIS)
29	iPKPZ	02 48		-	118° .5	H 03 14 1
	iSSN	00 08		-		(USGS)
	MM	04 12	40	48		
	MM	04 20	24	30		Mag. 6.7
30	eSB	00 49		-	86°	H 16 07 3
	MM	05 05	16	9		(USGS)
30						Mag. 6.0
	iPZ	03 18		-	106°	H 21 45 1
	iSE	09 37		-		.09 deep (USGS)
31	iPKPZ	06 27		-	147°	H 06 46 3
	iPKPZ	06 35		-		(USGS)

4th July, 1975

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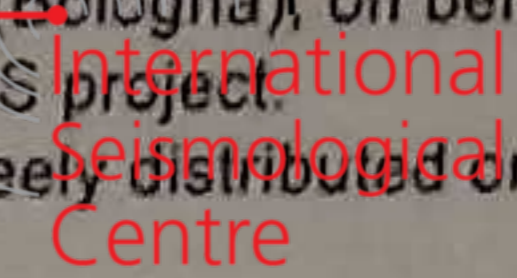
Position:- 54°46'N, 01°35'W, height above M.S.L. 103 metres

SEISMOLOGICAL BULLETIN FOR 1974 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 displacement.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
2	iPZ	05 05 55		-	28° .5	H 05 00 06
	iXZ	07 43		+		(BCIS)
	iPcPZ	09 06		-		
	iSN	10 42		+		
	iXZ	12 47		-		
	iXZ	14 41		+		
	iXZ	15 49		+		
	iXZ	16 11		-		
	MM	05 20	10	10		
	21	iPZ	21 35 09		-	78°
iPZ		35 43		-		.02 deep
iPPZ		38 07		-		(USGS)
iSN		44 51		+		
iScSN		45 31		-		
iSSB		46 04		+		
iSSN		50 09		-		
MM		22 07	22	13		Mag. 6.1
iPZ		10 47 19		+	71°	H 10 36 04
iPPZ		50 20		+		(USGS)
11	iS	56 28		-		
	MM	11 08	22	6		
	MM	11 15	20	6		Mag. 5.5
	iPZ	13 13 03		-	92° .5	H 12 50 50
	iPPZ	16 51		-		(USGS)
	iPKSN	23 37		+		
	iS	24 10		+		
	iXZ	24 41		-		
	iSSN	30 41		+		
	iXZ	31 29		-		
13	MM	13 53	18	87		Mag. 5.1
	MM	13 53	18			
	MM	15 28	18	3		
	MM	20 12	22	4	105°	H 19 1 45

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1974 November sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
10	MN	05 52			141°	H 04 23 32 (USGS)
11	iPKPZ	06 48 46		-	141°	H 06 23 21 .68 deep (USGS)
11	iSKSE	06 24 04		+	10°	H 06 59 51 (USGS)
11	iPZ	13 27 43		-	2°	H 13 22 34 (BCIS)
11	MN	13 38				
11	iPZ	14 31 55		-	2°	H 14 26 46 (USGS)
11	iPZ	13 45 10		-	84°	H 23 32 42 (USGS)
11	MN	14 26	20	3		Mag. 5.5
11	MN	17 06	20		7°	H 16 25 54 (USGS)
11	iPZ	19 28 26		-	18°	H 19 24 12 (BCIS)
11	iPZ	28 37		-		
11	iPPZ	28 44		-		
11	eSE	31 45				
11	eSSE	32 09				
11	iSE	32 52		+		
11	MN	19 34	10	5		
11	iPZ	17 35 27		+	71°	H 17 24 18 (USGS)
11	iPZ	04 08 25		-	92°	H 03 55 19 (USGS)
11	iPKPZ	08 34		-		
11	iSSE	18 51		+		
11	iSE	19 21		+		
11	MN	04 48	20	4		Mag. 5.7
11	iPKPZ	01 34 12		+	139.5	H 01 14 47 (USGS)
11	iPPN	37 21		+		
11	iSE	38 22		-		
11	iSKSN	41 20		+		
11	iSSN	55 42		+		
11	iSSSN	01 00 40		+		
11	MN	02 41	22	36		Mag. 6.9
11	iPZ	21 17 27		+	88°	H 22 05 22 .06 deep (USGS)
11	iPPZ	19 07		+		
11	iPPN	21 01		-		
11	iPPZ	00 00				

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

SEISMOLOGICAL BULLETIN FOR 1974 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 displacement.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
2	iPKPZ	07 02 34		-	129°	H 07 04 4
2	IME	07 33				
2	iPZ	12 48 34		-	38°	H 12 48 36
3	MN	04 26	20	12	117°	H 04 26 0
4	iPZ	03 21 05		-	86°	H 03 21 04
4	iSKSE	31 58		-		
4	iSN	32 28		-		
4	iSSE	38 59		-		
4	MN	04 13	20	19		Mag. 5.4
5	iPZ	12 09 56		+	86.5	H 12 09 52
5	ipPE	10 35		-		
5	iPPZ	13 21		-		(U)
5	iSKSE	20 07		+		
5	iSE	20 19		-		
5	iSSE	21 18		+		
5	iSSE	26 18		-		
7	iPZ	07 45 42		-	21.5	H 07 45 07
7	iSN	55 17		+		(U)
7	ME	08 24				
10	iPZ	01 49 51		+	52°	H 01 49 01
10	ipPE	51 02		+		1.06 deep
14	iPZ	02 41 37		+	22° 5	H 02 41 02
14	iPZ	21 34 18		+	20° 5	H 21 34 18 (BCIS)
16						(BCIS)



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Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
LPZ	15 14 21		-	21°	H 15 14 9 (BCIS)
LPZ	16 49 42		-	73°	H 16 49 4 .01 sec (USGS)
LN	07 20 56		-	98°	H 07 20 4 (USGS)
MN	08 17	20	24		MAG. 6.6 (USGS)
MN	03 50			74°	H 03 49 3 (USGS)
LPZ	05 55 29		-	46°	H 05 47 C (BCIS)
LPE	12 21 07		+	53°	H 12 11 4 (USGS)
MN	12 47				
ME	03 58	10	17	12°	H 03 50 C (BCIS)
LPZ	04 56 38		-	51°	H 04 47 4 .01 sec (USGS)
LPZ	20 33 10		-	73°	H 20 21 0 (USGS)
MN	21 06				

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