

DURHAM UNIVERSITY OBSERVATORY, ENGLAND.

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

SEISMOLOGICAL BULLETIN FOR JANUARY 1961

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

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
1	iPKPZ	16 56 55		-	143°	H 16 38 29 .10 deep (USCGS)
2	iPKPZ	10 31 07		-	136°5	H 10 11 57
	ipPKPZ	31 29		+		.03 deep
	iPPZ	34 45		-		(USCGS)
	ipPPZ	34 52		+		
5	iPZ	14 18 04		+	73°5	H 14 06 26 (USCGS)
5	ePKPZ	16 12 29			122°	H 15 53 56 .02 deep (USCGS)
5	iPKPZ	18 17 26		-	146°	H 17 57 57
	iPKPZ	18 08		-		.02 deep (USCGS)
5	iPKPZ	18 34 13		-	146°	H 18 14 43
	iPKPZ	34 50		-		.02 deep
	ipPKPZ	35 28		+		(USCGS)
10	iPZ	14 33 54		+	73°5	H 14 22 18
	iXZ	34 28		+		(USCGS)
	iXZ	35 00		-		
	iPPZ	36 38		-		
	iSZ	43 23		-		
	MZ	15 12				
11	iPZ	12 11 49		-	73°	H 11 59 55
	iPPZ	14 33		-		.01 deep (USCGS)
12	ePZ	14 24 49			66°	H 14 13 28 .01 deep (USCGS)
14	iPZ	16 50 11		+	70°	H 16 38 56
	iPcPZ	50 29		-		(USCGS)
	iPPZ	52 34		+		
15	ePKPZ	17 04 04		+	145°	H 16 44 45
	iPKPZ	04 05		-		.03 deep
	ePKPZ	04 37		+		(USCGS)
	iPKPZ	04 38		-		
	ipPKPZ	04 57		-		
16	iPZ	07 32 44		+	84°	H 07 20 19
	iXZ	32 57		-		.02 deep
	iPPZ	35 59		+		(USCGS)
	ipPPZ	36 16		+		
	iSZ	43 28		+		
	MZ	08 14	19	60		

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
'16	iPZ ipPZ	11 31 41 32 43		+ -	84°	H 11 19 47 .02 deep (USCGS)
16	iPZ MZ	12 24 47 13 06	19	+ 40	84°	H 12 12 34 .02 deep (USCGS)
16	iPZ	14 56 48		-	84°	H 14 44 15 .02 deep (USCGS)
16	ePZ iPZ iXZ	15 53 42 53 43 53 57		- + -	84°	H 15 41 23 .02 deep (USCGS)
17	iPZ	01 54 29		-	10°	H 01 52 05 (BCIS)
19	iPKPZ	06 14 07		-	146°	H 05 54 25 .02 deep (USCGS)
19	iPZ	17 33 57		+	73°5	H 17 22 17 (USCGS)
20	iPZ iPcPZ iSZ iSPZ	17 20 09 20 38 28 55 29 31		- - - -	67°	H 17 09 16 (USCGS)
22	iPKPZ iPKPZ iXZ	03 43 32 43 48 49 40		+ + -	136°	H 03 24 05 (USCGS)
26	iPKPZ iPKPZ ipPKPZ	16 32 57 33 04 33 30		- - -	146°	H 16 13 25 .02 deep (USCGS)
26	iPKPZ iPKPZ ipPKPZ	19 08 27 08 46 09 06		- - -	146°	H 18 48 57 .02 deep (USCGS)
28	iPKPZ iPKPZ	20 02 41 03 00		- -	146°	H 19 43 01 .01 deep (USCGS)
31	ePZ	00 59 43			66°5	H 00 48 37 (USCGS)

15 March 1961

D. J.

UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR FEBRUARY 1961



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
<u>Correction to 1960 January bulletin. Delete Jan 12 iPKPZ 22 42 55</u>						
No Z recording 3 Feb 18 hrs to 4 Feb 19 hrs.						
4	MNE	20 07			88°5	H 19 09 13 (USCGS)
5	ePZ	15 50 32			79°	H 15 38 34 .01 deep (USCGS)
6	iPKPZ	22 04 18		+	129°5	H 21 45 13 .01 deep (USCGS)
	ipPKPZ	04 32		-		
	MN	23 01	22	9		
8	ePKPZ	02 55 58			140°	H 02 36 41 .03 deep (USCGS)
8	iPKPZ	18 09 28		-	146°	H 17 50 45 .09 deep (USCGS)
	iPKPZ	09 29		-		
9	iPKPZ	02 28 14		-	154°	H 02 08 16 .01 deep (USCGS)
	ipPKPZ	28 25		+		
	iPPZ	32 13		-		
	ipPPZ	32 26		-		
11	iPKPZ	21 21 03		+	153°5	H 21 01 06 .01 deep (USCGS)
	iPKPZ	21 16		+		
	iPPZ	24 44		-		
12	iPZ	22 05 43		-	77°	H 21 53 43 .01 deep (USCGS)
	iPcPZ	05 55		+		
	ipPZ	06 07		+		
	iSN	15 35		-		
	iSPE	15 55		+		
	isSN	16 14		-		
	iSSN	20 46		-		
	LN	21 13	25	40		
	ME	22 38	21	200		
	MN	22 46	15	220		
MZ	22 46	15				
12/13	ePZ	23 38 36			77°	H 23 26 35 (USCGS)
	iPZ	38 39		-		
	iSN	48 25		-		
	MN	00 19	15	10		
13	ePZ	07 05 17			143°	H 06 45 20 .01 deep (USCGS)
	ME	08 02	22			

Sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes	
13	iPZ	16 39 24	15	+	77°	H 16 27 21 (USCGS)	
	iPcPZ	39 35		-			
	MN	17 19		7			
14	iPZ	03 34 09		-	78°	H 03 22 01 (USCGS)	
	MN	04 14					
15	iPZ	10 57 16	18	+	77°	H 10 45 16 .01 deep (USCGS)	
	iPcPZ	57 25		+			
	ipPZ	57 40		+			
	iXZ	59 27		-			
	iPPZ	11 00 13		+			
	iSE	07 20		-			
	iSKSE	07 34		+			
	MN	11 37		17			
16	iPZ	14 06 51		-	77°	H 13 54 54 .01 deep (USCGS)	
	iPPZ	09 26		-			
	iSE	16 23		-			
18	ePE	17 11 53		-	58°	H 17 02 10 (USCGS)	
	eSNE	19 58					
21	ePEZ	03 07 18		-	25°	H 03 01 50 (BCIS)	
	iXZ	07 32					
22	iPKPZ	22 13 40		+	156°	H 21 53 35 .01 deep (USCGS)	
	iPKPZ	13 59		-			
23	iPZ	04 29 12	25	-	83°	H 04 16 25 .02 deep (USCGS)	
	ME	05 01		8			
	MN	05 16		12			3
23	iPZ	21 51 42		-	23°	H 21 46 30 (BCIS)	
26	iPEZ	18 23 26		+	85°	H 18 10 49 .01 deep (USCGS)	
	ipPEZ	23 55		-			
	iPPE	26 43		-			
	iPPPE	28 47		+			
	iXE	30 25		-			
	iSE	33 44		-			
	ME	18 57		25			545
	ME	19 03		24			530
	ME	19 05		20			310
	MZ	19 05		20			

26th April, 1961.

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

SEISMOLOGICAL BULLETIN FOR MARCH, 1961


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
3	eSN	00 56 56		-	11°	H 00 52 27 (BCIS)
7	ePKPZ	10 30 28		+	153°	H 10 10 39 (USCGS)
	iPKPZ	30 29		-		
	iXZ	30 38		-		
	iXZ	30 52		+		
	ePKPZ	31 12		+		
	iPKPZ	31 13		-		
	iPPZ	34 19		+		
	iSKSE	37 14		-		
	iPPPZ	37 39		-		
	iPaZ	41 14		-		
	iSSE	53 59		+		
	iSSSE	59 53		+		
	ME	11 35	20	27		
	ME	12 01	19	40		
7	iPKPZ	23 30 59		+	127°	H 23 12 00 .01 deep (USCGS)
9	ePZ	04 08 43			55°	H 03 59 09 (USCGS)
	ME	04 28				
11	iPZ	01 43 17		+	75°	H 01 31 34 (USCGS)
11	?ePZ	08 50 39			55°	H 08 41 06 (BCIS)
	iPZ	50 45		-		
	eSNE	58 37				
	ME	09 15				
12	ePKPZ	23 41 40			154°	H 23 21 43 .02 deep (USCGS)
13	ePZ	08 16 18			84°	H 08 03 44 (USCGS)
	ME	08 50				
13	ePNZ	19 23 25			29°	H 19 17 16 (USCGS)
15	iPKPZ	10 34 06		-	125°	H 10 14 55 (USCGS)
16	iPPZ	14 05 39		-	116°	H 13 45 36 (USCGS)
	ME	14 52	25	20		
18	iPKPZ	15 16 26		+	170°	H 14 54 59 (USCGS)
	iPPZ	20 21		-		
	iSSE	41 16		+		

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
	ME	16 10	60	50		
	ME	16 18	25	13		
	ME	16 36	20	17		
20	iPZ	06 27 55		-	78°	H 06 16 24
	iSE	37 22		+		.02 deep
	ME	06 58	20	2		(USCGS)
20	iPKPZ	16 12 27		-	143.5°	H 15 53 10
	iSSE	33 59		-		.03 deep
	iXE	35 30		-		(USCGS)
20/21	iPKPZ	00 02 26		-	149.5°	H 23 42 34
	iPKPZ	02 53		+		(USCGS)
	iPPZ	06 07		-		
	eSKSE	09 34				
	ME	01 17	19			
24	iPZ	23 09 40		-	85°	H 22 57 14
	ME	23 50	20	4		.02 deep
						(USCGS)
28	iPZ	09 50 22		-	109°	H 09 35 55
	iPKPZ	54 38		-		.01 deep
	iPPZ	55 00		-		(USCGS)
	iPPPZ	57 17		-		
	iXZ	10 01 01		+		
	iXZ	01 24		+		
	iSKSE	01 38		+		
	iPSE	04 34		-		
	ME	10 36	20	45		
	ME	11 55	20	7		
28	ePZ	12 40 45			74°	H 12 29 13
						.01 deep
						(USCGS)
30	ME	08 31	15	3	89°	H 07 42 59
						(USCGS)
30	ME	10 18	18		140°	H 08 49 46
						(USCGS)

26th May 1961.

BRUNNEN UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR APRIL, 1961

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	15 27 44		+	52°	H 15 18 23 (USCGS)
	iPcPZ	28 47		+		
	iPPZ	29 18		+		
	iScPZ	32 28		+		
	iSPZ	35 07		-		
	iSE	35 12		+		
	iScSE	37 32		-		
	iSSE	39 22		+		
	LE	41 05		+		
	ME	15 52	13	36		
ME	15 56	10	18			
ME	15 59	14	25			
3	iPZ	16 43 26		-	71.5°	H 16 32 04 (USCGS)
4	PZ	01 27 18			53°	H 01 17 59 .01 deep (USCGS)
4	iPZ	09 56 00		+	53°	H 09 46 37 (USCGS)
	iSE	10 03 32		-		
	iGE	07 43	16	6		
	ME	10 20	14	28		
4	iPnZ	22 44 27		-	07°	H 22 42 30 (BCIS)
	iP*Z	44 43		-		
6	ME	04 07	16		77°	H 03 18 28 (USCGS)
6	ePZ	18 21 34			50°	H 18 12 41 (USCGS) .02 deep
	ME	18 49	18	2		
7	ePE	20 06 40			71.5°	H 19 54 52 (USCGS)
	ME	20 40	20			
	ME	20 44	14			
7	iPZ	21 26 42		-	51°	H 21 17 44 (USCGS)
8	ePPZ	18 18 54			111°	H 17 59 47 .01 deep (USCGS)
	ME	19 05	19	9		
	ME	19 09	19	11		
8	eSE	22 02 24			104°	H 21 36 42 .02 deep (USCGS)
9	iSE	07 44 49		+	75.5°	H 07 23 16 (USCGS)
	ME	08 05	16			

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
9	iPZ	15 47 59		+	86°5	H 15 35 05 (USCGS)
	iPPZ	51 25		-		
	iSKSE	58 21		-		
	eSE	58 39				
	ME	16 32	15	52		
	MZ	16 32	15			
12	ePZ	22 32 21			78°	H 22 20 34 .02 deep (USCGS)
	iSE	42 04		-		
	ME	23 00	22	4		
13	iPZ	16 43 56		+	51°	H 16 34 39 (USCGS)
	iPcPZ	45 08		-		
	iPPZ	45 52		-		
	eSE	51 31				
	iScSE	53 43		+		
	GE	55 43	12	14		
	ME	17 08	15	96		
	MZ	17 08	15			
16	ePZ	11 51 58			70°5	H 11 40 41 (USCGS)
17	ePZ	16 31 17			57°	H 16 21 10 (USCGS)
19	eSE	00 20 26			10°	H 00 16 12 (BCIS)
19	10 hrs to 22 hrs breakdown of timing system					
20	MN	22 55	20	2	140°	H 21 39 07 (USCGS)
21	iXZ	20 23 15			75°	H 20 10 38 (USCGS)
	MN	21 02	20			
23	iPZ	05 27 19		-	89°	H 05 14 31 .02 deep (USCGS)
	iSE	38 10		-		
	ME	06 14	18	4		
23	iPZ	09 13 39		-	78°	H 09 01 42 (USCGS)
	iPcPZ	13 48		-		
	ipPZ	13 55		+		
	iPPZ	16 30		-		
	iSN	23 29		-		
	iSSN	29 03		-		
	MN	09 55	16	29		
23	ePZ	17 02 52			78°	H 16 51 04 .01 deep (USCGS)
	MN	17 44	14			
25	iPZ	01 29 37		+	78°	H 01 17 43 .01 deep (USCGS)
	eSN	39 20				
	iSKSE	39 32		-		
	MN	02 10	16	2		
26	iPZ	07 50 56		-	78°	H 07 38 54 (USCGS)
	iPcPZ	51 04		-		
	iSNE	08 00 51		+ -		
	iSKSN	01 10		-		
	MN	08 32	16	7		
26	iPZ	19 44 32		+	78°	H 19 32 34 (USCGS)
	MN	20 25	16			

Sheet 3

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
28	iPZ	20 51 07		-	10°	H 20 48 50 (BCIS)
29	iPZ	09 31 09		-	74°	H 09 19 28 (USCGS)
	iXZ	31 15		+		
	iXZ	31 17		-		
29	iPNZ	09 33 07		- -	17.5°	H 09 29 05 (BCIS)
	iPPZ	33 31		-		
	iPPPZ	33 40		+		
	iXZ	33 52		-		
	iSE	36 18		+		
	iSE	36 21		-		
	iLQE	38 10		+		
	ME	09 38	14	40		
	MN	09 41	10	21		
	ME	09 42	10	24		
30	iFE	07 38 01		+	18.5°	H 07 33 53 (USCGS)
	iSN	41 31		-		
	MN	07 43	16	5		
	MN	07 45	12	4		
	MN	07 46	11	4		
30	ePZ	11 27 15			78°	H 11 15 20 .01 deep (USCGS)
	MN	12 05	18	3		
30	ePKPZ	15 07 47			140°	H 14 48 11 (USCGS)
	iPPZ	10 47		-		
	ME	16 06	20			

27th June, 1961.

DURHAM UNIVERSITY OBSERVATORY, ENGLAND
Position:- 54°46'N, 01°35'W, height above M.S.L. 103 metres.
SEISMOLOGICAL BULLETIN FOR MAY, 1961

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	ePZ ME	03 15 46 03 24	10	2	15°5	H 03 11 46 (USCGS)
2	ePKPZ iPKPZ iPKPZ iXZ iXZ iPPZ	23 04 40 04 47 04 56 05 43 05 48 08 38		- - - - -	153°	H 22 44 44 (USCGS) No recording of horizontal components
3	iPZ iXZ	00 36 13 36 37		- -	59°	H 00 26 17 (USCGS) No recording of horizontal components
7	iPPZ iSKSZ iSKSZ	04 51 00 56 09 56 26		- - +	111°	H 04 32 15 .02 deep (USCGS) No recording of horizontal components.
7	ME	15 50			15°5	H 15 40 53 .01 deep (USCGS)
8	ME	20 17			99°	H 19 23 35 (USCGS)
11	eSKSE ME	09 03 34 09 42	19	5	111°	H 08 38 27 (USCGS)
13	iPKPE iPKPE	14 38 40 39 02		+ +	155°	H 14 18 42 (USCGS)
13	iPKPE ME	15 11 27 15 51	20	+ 1	142°5	H 14 52 55 .09 deep (USCGS)
13	ePZ	16 01 33			77°5	H 15 49 30 (USCGS)
14	eSE ME	15 14 11 15 17	12	1	14°5	H 15 08 04 (USCGS)
14	ePE eSE ME	15 41 49 44 42 15 49	9	2	14°5	H 15 38 07 (USCGS)
15	iPKPZ	21 12 31		+	145°	H 20 53 05 .01 deep (USCGS)

Date	Phase and components	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
16	iPZ	21 58 07		+	86°5	H 21 45 24 (USCGS)
	iXZ	58 20		-		
	iSKSE	22 08 28		-		
	iSE	08 38		+		
	GE	20 01	15	7		
	ME	22 33	26	9		
	ME	22 35	20	6		
17	iPZ	19 40 55		+	73°	H 19 29 19 (USCGS)
	iXZ	41 02		-		
	iPPZ	43 49		-		
	iSE	50 24		+		
	iSKSE	51 15		+		
	ME	20 11	16	1		
	ME	20 22	17	3		
19	ePE	16 51 00			88°5	H 16 37 29 .01 deep (USCGS) No recording of vertical component
	eSE	17 01 05				
	ME	17 25	25			
20	ME	18 36			68°5	H 17 52 05 .01 deep (USCGS) No recording of vertical component
22	iPKPZ	14 04 10		+	147°	H 13 44 36 .01 deep (USCGS)
	iPKPE	04 13		-		
	iXZ	04 25		+		
	iXZ	04 42		+		
	iXZ	05 02		-		
	ME	15 12	20	3		
22	iPKPZ	17 52 05			149°	H 17 32 22 (USCGS)
	iXZ	52 23		-		
	iXZ	52 39		+		
	iSSE	18 14 35				
	ME	19 01	20	2		
23	iPZ	02 50 59		+	26°	H 02 45 19 .01 deep (BCIS)
	iPZ	51 00		-		
	ipPZ	51 22		+		
	iPcPZ	54 19		-		
	eSE	56 00		-		
	iSE	56 01		+		
	GE	56 23	12	36		
	ME	03 04	15	75		
23	iPZ	03 52 13			78°	H 03 40 26 .02 deep (USCGS)
	iPPZ	54 57		-		
	iSKSE	04 02 22		+		
	iXE	04 43		-		
23	iPZ	16 56 43		+	78°	H 16 44 59 .02 deep (USCGS)
	iPPZ	59 42		+		
	eSE	17 06 20				
	eSSE	11 31				
	ME	17 37	20			

DURHAM UNIVERSITY OBSERVATORY, ENGLAND

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

SEISMOLOGICAL BULLETIN FOR JUNE, 1961.

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	ePEZ	23 38 54			56°	H 23 29 21 (BCIS)
	iPEZ	39 00		- -		
	iXZ	39 04		-		
	iXZ	39 33		+		
	iPcPZ	40 05		+		
	iPPZ	41 01		-		
	iPPPE	42 30		-		
	iSE	46 50		+		
	ME	24 04	15	20		
2	iPE	05 00 46		+	56°	H 04 51 14 (BCIS)
	ePZ	00 46				
	iPcPZ	01 46		-		
	iPPZ	02 54		+		
	iSE	08 28		-		
	ME	06 30	12	12		
2	ePZ	05 32 04			56°	H 05 22 33 (BCIS)
	iPZ	32 09		+		
	iPPZ	34 03		-		
2	iPZ	05 54 28		-	56°	H 05 44 57 (BCIS)
2	PZ	07 12 06			56°	H 07 02 52 (USCGS)
3	ePEZ	01 25 03			69°5	H 01 13 25 (USCGS)
	eSE	33 35				
	ME	01 58	19			
	ME	02 05	12			
3	iPZ	15 30 01		-	55°5	H 15 20 25 .01 deep (USCGS)
3	iPZ	15 32 54		-	55°5	H 15 23 17 .01 deep (USCGS)
	ME	16 04				
4	iPZ	07 43 09		+	60°	H 07 33 05 (USCGS)
	iXZ	43 13		+		
	iXZ	43 47		+		
	iPcPZ	43 54		-		
	iPPE	45 27		-		
	iXE	46 45		-		
	iSE	51 37		+		
	iScSE	53 07		-		
	ME	08 13	12	13		
4	iPZ	07 53 50		-	60°	

Sheet 2.

Date	Phase and component	Time G.M.T.	Period sec	Amplitude microns and direction	Epicentral distance	Notes	
4	iPZ	14 01 36		-	60°	H 13 51 27 (USCGS)	
5	ePZ	03 39 45			49°	H 03 31 01 .01 deep (USCGS)	
6	ePZ	21 05 32			54.5°	H 20 56 15 .01 deep (USCGS)	
7	iPZ	14 25 31		-	61°	H 14 15 19 (USCGS)	
	iXN	25 43		+			
	iXN	25 47		-			
	iXN	27 41		+			
	iPPZ	27 50		+			
	eSNE	33 51		+ +			
	iSN	33 58		-			
	ME	14 49	12	2			
9	ePZ	04 05 10			55°	H 03 55 51 .02 deep (USCGS)	
9	iPZ	09 43 54		-	37°	H 09 36 49 (USCGS)	
	iSE	49 32		+			
10	eSKSE	20 57 00			121°	H 20 31 51 (USCGS)	
	ME	21 41	20				
	MN	21 43	15				
11	iPZ	05 19 07		-	49°	H 05 10 23 (BCIS)	
	iXZ	19 21		+			
	iPcPZ	20 36		+			
	iPPZ	21 06		+			
	iYZ	21 28		-			
	iPcSE	24 33		+			
	iXZ	24 52		-			
	eXN	26 06					
	iSN	26 12		-			
	iScSN	29 15		-			
	iSSN	29 53		-			
		MN	05 37	30			120
		ME	05 39	26			70
	MN	05 40	15	34			
	MZ	05 43	12				
11	MN	10 29			19°	H 10 19 24 (USCGS)	
11	iPE	12 40 07		+	49°	H 12 31 23 (BCIS)	
	iSN	47 03		-			
	iSE	47 06		-			
	ME	13 06	13	2			
	MN	13 06	16	3			
11	ePZ	14 06 38			49°	H 13 57 56 (BCIS)	
	iSN	13 47		-			
12	ePZ	10 10 37			82.5°	H 09 58 18 .01 deep (USCGS)	
	eSNE	20 59					
	MN	10 51	12				

13 12 hrs to 24 hrs timing system faulty.

Sheet 3.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
14	iPE eSN ME	20 41 51 49 28 20 28	12	- 2	54° ₅	H 20 32 24 .01 deep (USCGS)
15	iPZ iPZ MN	23 36 26 36 27 24 14		- +	78°	H 23 24 41 (USCGS)
16	iPKPE ME	07 26 52 08 17	18	+	115°	H 07 08 17 (USCGS)
16	iPZ iPZ iXZ iPcPZ iXZ ipPZ ipPZ iSN isSNE iXN	10 43 15 43 17 43 27 43 33 43 44 43 55 43 57 52 29 53 09 54 02		+ - + - + + - - + -	73°	H 10 31 56 .02 deep (USCGS)

16 15 hrs to June 17 12 hrs breakdown of timing system.

17	iPZ iPPZ iXE ME	15 19 29 22 27 56 17 16 00		+ - -	79°	H 15 07 36 .03 deep (USCGS)
19	MN	02 42	18	3		
19	MN	08 34	19		82°	H 07 59 38 .01 deep (USCGS)
19	iPZ ipPZ iPcPZ iPPZ	17 13 13 14 08 14 28 15 23		+ - + -	51°	H 17 04 30 .03 deep (USCGS)
20	iPZ iSN MN	03 31 11 39 07 04 00		+ +	56° ₅	H 03 21 27 (USCGS)

No timing system for rest of month.

24th August, 1961.

URHAM UNIVERSITY OBSERVATORY ENGLAND

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

SEISMOLOGICAL BULLETIN FOR JULY, 1961



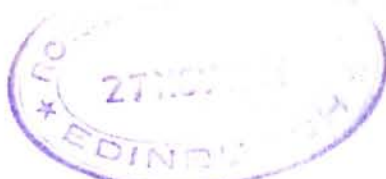
Instruments:- Wilson-Lamison seismometer free period 1 sec. coupled to G.E. galvanometer free period 3.4 sec., recording vertical component of velocity. Milne-Shaw free period 12 sec. damping ratio 20:1, magnification 250, recording N and E component displacement.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
No timing system before 17th						
17	ePZ	01 13 16			80°	H 01 01 11 .01 deep (USCGS)
	eSE	23 31				
	ME	01 52	17			
17	ePZ	16 32 58			85°	H 16 20 23 .01 deep (USCGS)
	eSKSE	43 09				
	iSE	43 39		-		
	MNE	17 14	17	1		
18	iPNEZ	14 16 28		+++	88°	H 14 03 37 (USCGS)
	iXNEZ	16 50		+++		
	iXZ	17 05		+		
	iPPNZ	19 51		++		
	iSKSNE	26 50		--		
	iSNE	27 05		++		
	iSPZ	28 05		-		
	iXE	30 05		-		
	iXE	31 48		+		
	iSSE	32 44		-		
	ME	14 51	26	175		
	ME	15 02	13	90		
	MZ	15 02	13			
18	iPZ	14 46 52		-	88°	H 14 34 07 (USCGS)
	iXZ	46 55		-		
	iPcPZ	46 57		+		
	iXZ	47 02		-		
	iPPZ	50 16		-		
18	iPZ	15 29 05		+	88°	H 15 16 12 (USCGS)
	iXZ	29 08		-		
	iPcPZ	29 12		+		
	iXZ	29 19		-		
18	iPZ	23 55 30		-	88°	H 23 42 37 (USCGS)
19	ePNZ	23 05 09	(?error of 1 min.)	- +	22°	H 23 00 58 (BCIS)
	iSNE	09 11				
No timing system 20 July 00 hrs to 25 July 09 hrs.						
26	?ePZ	12 03 09			11°	H 12 00 39 (BCIS)
28	iPZ	01 17 45		-	83.5°	H 01 05 30 .02 deep (USCGS)
	ipPZ	18 21		+		
	iPPZ	20 58		-		
	iSE	27 52		+		

Further readings for this earthquake on sheet 2.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
28	iXE	28 08	18	-		Further readings from sheet 1
	isSE	28 50		+		
	ME	01 48		2		
28	ePKPN	06 31 23			143°	H 06 11 39 (USCGS)
	iPPN	34 27		+		
	iXN	35 27		+		
	isSE	53 15		-		
28	ePZ	10 24 15	15		84°	H 10 13 51 (USCGS)
	eSE	36 45				
	ME	11 03		1		
28	ME	11 28	15		84°	H 10 38 28 (USCGS)
29	iPKPZ	16 47 10	16	+	149.5	H 16 27 19 (USCGS)
	iPKPZ	47 25		+		
	ME	18 01				

24th October, 1961.



DURHAM UNIVERSITY OBSERVATORY ENGLAND

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

SEISMOLOGICAL BULLETIN FOR AUGUST, 1961.

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 micron and direction	Epicentral distance	Notes
1	ePKPZ	05 59 09			133°5	H 05 39 53 .01 deep (USCGS)
	ipPKPZ	59 26		-		
	iPPN	06 01 37		+		
	eXE	02 12				
	iSKSE	06 00		+		
	iXE	18 25		-		
	iSSN	19 22		-		
	ME	06 47	22	8		
1	iPPN	07 40 39		+	113°	H 07 21 12 .01 deep (USCGS)
	ME	08 21	20	4		
	ME	08 24	15	4		
	ME	08 26	15	4		
	MN	08 27	16	4		
	ME	08 29	15	4		
2	iPNZ	12 23 57		+ -	78°	H 12 12 04 .01 deep (USCGS)
3	iPZ	03 18 06		-	61°	H 03 08 02 .02 deep (USCGS)
	eSNE	26 14		- +		
	iSKSN	27 48		+		
4	ePN	18 41 43			32°	H 18 35 21 (USCGS)
	MN	18 50	18	5		
	ME	18 51	15	2		
4	iPZ	23 04 47		-	78°	H 22 52 49 (USCGS)
	eSN	14 40				
8	iPZ	12 30 01		-	74.5	H 12 18 19 (USCGS)
	iPcPZ	30 19		-		
	iXN	30 51		+		
	iXZ	32 49		+		
	iSNE	39 34		+ +		
	iSKSN	40 11		+		
	ME	13 07	18	5		
9	ePKPZ	16 22 03			144°	H 16 02 36 .01 deep (USCGS)
11	iXN	06 48 56		+	84°	H 06 08 18 (USCGS)
	MN	07 03	15			

Sheet 2.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
11	iPZ	16 03 32		-	78°	H 15 51 35 .01 deep (USCGS)
	ipPZ	03 52		+		
	iXZ	04 19		-		
	iXZ	04 37		+		
	iPPPZ	08 20		-		
	iPaE	10 07		-		
	iSE	13 25		+		
	iSKSE	13 47		+		
	iSPZ	14 05		-		
	iXE	17 51		-		
	iSSE	19 12		-		
ME	16 36	21	70			
ME	16 42	21	80			
MZ	16 42					
11	ePE	22 52 07			111°	H 22 37 22 (USCGS)
	eXE	56 07				
	ME	23 06	12			
11	iPZ	23 45 48		-	78°	H 23 33 52 .01 deep (USCGS)
	ipPZ	46 06		+		
13	ME	06 50	20		87°	H 06 08 18 (USCGS)
	ME	06 57	15			
14	iPKPZ	19 10 40		-	149°	H 18 50 50 (USCGS)
	iPKPZ	10 55		+		
	ME	20 42	18			
14	MN	23 00	14		85°	H 22 04 59 (USCGS)
14/15	iPKPZ	23 48 16		+	145°	H 23 28 47 .01 deep (USCGS)
	iXZ	48 18		+		
	ipPKPZ	49 02		-		
	iPPZ	50 25		-		
	iSKSN	55 01		-		
	MN	00 53	18			
15	iPZ	19 16 41		-	87°	H 19 03 56 (USCGS)
	iSE	27 20		-		
	ME	20 00	20	2		
	ME	20 03	20	2		
16	ME	16 57	12		69.5	H 16 15 57 (USCGS)
17	iPZ	21 28 04		+	76.5	H 21 16 30 .03 deep (USCGS)
	iXZ	28 05		-		
	iPcPZ	28 11		+		
	ipPZ	28 55		-		
	iPPZ	30 55		-		
	iSN	37 33		+		
	iSKSN	38 00		-		
	iXN	38 31		+		
	iSN	39 11		+		
	iSSN	42 26		+		
	MN	22 05	18	5		
iPPPZ	33 25		-			

Sheet 3.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
19	iPZ	05 21 35	16	+	87°	H 05 09 49 .10 deep (USCGS)
	ipPZ	23 44		+		
	iPPE	24 52		-		
	iXN	26 07		-		
	iSKSE	31 02		+		
	iSN	31 23		-		
	iXE	32 28		+		
	iXN	34 21		-		
	iXE	35 16		-		
	isSN	35 28		+		
	isSE	37 32		+		
	iSSSE	41 18		+		
iGE	44 37	30				
19	iPZ	05 45 59	20	-	82°5	H 05 33 31 (USCGS)
	ipPZ	49 46		-		
	iSN	56 20		+		
	iSKSN	56 46		+		
	ME	06 19		100		
	ME	06 27		55		
19	iPN	15 02 25		-	61°5	H 14 52 31 .02 deep (USCGS)
	iSN	10 25		-		
20	iPKPZ	05 22 42		-	144°	H 05 04 14 .10 deep (USCGS)
21	iPKPZ	16 26 17		-	144°	H 16 06 55 .01 deep (USCGS)
21	ePZ	17 12 36			79°	H 17 00 37 .01 deep (USCGS)
23	ePZ	04 21 30	18		48°	H 04 12 36 (USCGS)
	eSE	28 18				
	ME	04 43		2		
27	iPZ	16 34 01	15	-	77°	H 16 22 08 (USCGS)
	ME	17 14				
27	iPZ	17 01 38		+	103°	H 16 47 45 (USCGS)
28	iPKPZ	10 02 47		+	145°	H 09 44 13 .09 deep (USCGS)
30	ME	04 04	18		54°	H 03 35 08 .01 deep (USCGS)
31	iPZ	02 00 23		+	86°	H 01 48 37 .10 deep (USCGS)
	ipPZ	02 33		-		
	iSKSE	09 50		-		
	iSN	10 09		-		
	isSN	13 56		-		

Sheet 4.

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
31	iPZ	02 08 50		+	86°	H C1 57 08 .10 deep (USCGS)
	ipPZ	10 58		+		
	ippZ	12 04		-		
	iSKSN	18 22		+		
	iSN	18 39		-		
	isSN	22 27		-		
31	iPZ	02 34 48		+	86°	H 02 23 03
	ipPZ	37 11		-		

22nd November, 1961.

DURHAM UNIVERSITY OBSERVATORY ENGLAND



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

SEISMOLOGICAL BULLETIN FOR SEPTEMBER, 1961

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	eXZ	00 28 07		-	115°5	H 00 09 35 .02 deep (USCGS)
	iXZ	28 10		-		
	iPPZ	29 13		+		
	iPPPZ	31 34		-		
	iXN	35 59		+		
	iSE	36 56		-		
	isSE	37 57		-		
	iPSN	39 00		+		
	MN	01 12	20	11		
ME	01 15	17	10			
1	iPZ	19 02 43		-	79°5	H 18 50 35 (USCGS)
	iXZ	02 52		-		
	iSE	12 38		-		
	ME	19 40	18	4		
2	iPZ	00 37 38		+	73°	H 00 26 06 (USCGS)
	MN	01 15	16			
2	iPZ	14 21 04		-	23°	H 14 16 09 (USCGS)
	iXZ	21 15		-		
	iPPZ	21 42		-		
4	ePZ	00 31 25			12°5	H 00 28 18 (BCIS)
	eXN	37 07				
4	iPZ	10 00 46		+	73°5	H 09 49 11 (USCGS)
5	iPZ	06 21 54		-	51°	H 06 12 55 .01 deep (USCGS)
	ipPZ	22 25		+		
	iXE	25 39		-		
	iSN	29 04		-		
	MN	06 34				
5	ePZ	11 45 02			62°5	H 11 34 37 (USCGS)
	iXZ	45 06		-		
	iXNZ	45 15		-		
	iXZ	45 22		-		
	iXZ	45 58		+		
	iXZ	46 05		+		
	iPPZ	47 41		-		
	iSN	53 35		-		
	iXE	53 48		-		
	iPSE	54 10		-		
	MN	12 13	19	5		

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
8	ME	05 29	18		65°	H 04 52 10 .01 deep (USCGS)
8	ePN	11 41 30			112°5	H 11 26 33
	iPZ	41 31		-		.02 deep
	iPKPZ	44 51		-		(USCGS)
	ipPKPZ	45 20		+		
	iPPZ	45 51		-		
	iXZ	46 18		+		
	iXZ	46 36		-		
	iSKSN	51 31		-		
	iSKSN	52 37		-		
	iPSN	55 31		+		
	iSSN	12 00 14		-		
	ME	12 26	19	54		
9	iPZ	09 21 45		-	72°	H 09 10 25 .01 deep (USCGS)
10	iPZ	04 57 54		-	93°5	H 04 45 27 .08 deep (USCGS)
11	iPZ	02 58 28		-	74°	H 02 46 43 (USCGS)
12	iPZ	12 39 03		-	77°5	H 12 27 09 .01 deep (USCGS)
13	MN	22 25			114°	H 21 19 26 .02 deep (USCGS)
14	iPZ	08 10 49		-	40°	H 08 03 09 (USCGS)
15	iPZ	01 52 30		-	32°5	H 01 46 10
	iSE	57 31		-		.02 deep
	MN	02 08	11	21		(BCIS)
17	iPZ	08 54 36		-	87°	H 08 41 54
	ME	09 37	16	8		(USCGS)
18	ME	03 01			67°	H 02 25 19 (USCGS)
18 September 08 hrs to 19 September 09 hrs no recording;						
19 September 09 hrs to 24 September 09 hrs timing unreliable.						
24	iPZ	19 16 34		+	78°5	H 19 04 41
	iXN	25 31		+		(USCGS)
	iSN	26 34		+		
24	iPZ	21 53 45		+	86°5	H 21 40 59
	ipPZ	54 01		-		.01 deep
	eSN	22 04 06				(USCGS)
	ME	22 35	20			
27	iPPZ	12 27 12		+	115°5	H 12 07 39
	MN	13 12				.02 deep (USCGS)
27	iPZ	19 38 31		+	72°	H 19 27 01
	iSKSN	49 12		+		(USCGS)

Sheet 3

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
28	iPN	22 45 18		-	50°	H 22 36 27 .01 deep (USCGS)
	ipPE	46 03		-		
29	iPZ	17 02 37		-	78°	H 16 50 33 (USCGS)
28	ePZ	03 37 42			89°	H 03 24 43 .02 deep (USCGS)
	iSE	48 21		-		
	MN	04 23	15			

2nd January, 1962.


DURHAM UNIVERSITY OBSERVATORY ENGLAND
Position: -54°46'N, 01°35'W, height above M.S.L. 103 metres
SEISMOLOGICAL BULLETIN FOR OCTOBER, 1961

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	07 26 58		+	23.5	H 07 21 44 (BCIS)
	iXZ	27 04		-		
	eSE	31 14				
	GNE	31 19				
	MN	07 38	12	6		
	ME	07 39	11	6		
5	eXZ	22 43 02		-		
	eXE	58 27				
	ME	23 31	16			
5	iPKPZ	18 28 10		-	143°	H 18 08 43 .01 deep (USCGS)
13	iPKPZ	17 47 47		+	147°	H 17 28 21 .02 deep (USCGS)
17	MN	05 27	20			H 04 27 33 (USCGS)
18	eXN	17 09 30			111°	H 16 52 00 .01 deep (USCGS)
	iSSN	26 35		-		
	ME	17 58	18	25		
22	ePKPZ	10 09 56			145°	H 09 50 44 .03 deep (USCGS)
	ipPKPZ	10 15		-		
	iXZ	11 57		-		
23	ePN	00 22 31			100.5	H 00 08 33 (USCGS)
	iSE	33 57		+		
	ME	01 15	20			
23	iXN	08 52 05				H 03 31 26 Atomic bomb. (B.C.I.S.)
	iXN	53 04				
23	ME	15 39			107°	H 14 39 33 (USCGS)
26	MN	01 47	22		122°	H 00 38 20 (USCGS)
26	eSN	15 51 55			95°	H 15 27 02 (USCGS)
	ME	16 26	22			

Sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
28	iPN	10 54 21		+	40°	H 10 46 40 (USCGS)
	eSE	11 00 31				
	ME	11 15				
28	ME	23 26			138°	H 22 44 32 (USCGS)
29	iSN	09 32 10		-	67°	H 09 12 16 (USCGS)
	iSKSN	33 12				
	ME	09 49	19			
29	iSE	15 06 50		-	67°	H 14 47 18 .01 deep (USCGS)
	ME	15 27				
30	iPZ	02 28 26		-	72°	H 02 16 33 (USCGS)
	iSN	37 54				
	iSKSN	38 51				
	ME	02 58	19			
30	MN	08 54	18	7		H 08 33 30 Atomic bomb. (B.C.I.S.)
	MN	08 55	15	7		
30	ePN	21 28 42			90°	H 21 15 35 (USCGS)
	eSN	39 37				
31	MN	08 51				H 08 29 26 Atomic bomb (B.C.I.S.)

2nd January, 1962.

DURHAM UNIVERSITY OBSERVATORY ENGLAND



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

SEISMOLOGICAL BULLETIN FOR NOVEMBER, 1961

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
6	ePKPN MN	05 47 49 06 53			137°	H 05 28 10 (USCGS)
6	eXZ iXZ	11 34 35 35 05		+		
10	ePKPZ	18 19 20			143°	H 18 00 50 .09 deep (USCGS)
12	iSE isSE ME	02 33 27 33 35 02 53		- +	61°	H 02 15 17 (USCGS)
14	iSN	05 04 31		-	79°	H 04 42 27 (USCGS)
15	iPZ ipPZ iSNE iSKSE iSSE ME MN MZ	07 29 12 29 25 39 05 39 25 44 17 08 03 08 08 08 08		- - - + - - 23 33 19 19	78°	H 07 17 12 (USCGS)
17	iPKPZ	19 23 12		-	145°	H 19 03 55 .03 deep (USCGS)
18	PKPZ	11 36 41		-	152°	H 11 16 57 .01 deep (USCGS)
18	ME	22 58			87°	H 22 09 53 .01 deep (USCGS)
19	eSKSE MN	23 46 23 24 22	20		108°	H 23 21 55 .02 deep (USCGS)
20	MN	04 34			70°	H 04 03 56 .01 deep (USCGS)
20	iPKPZ iPKPZ iXZ MN	12 04 01 04 20 04 30 13 15		+ + - 20	146.5	H 11 44 19 (USCGS)

sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
20	ePZ	18 05 27			36°	H 17 58 15 (BCIS)
	iPZ	05 29		+		
	iPPZ	06 47		-		
	iSNE	11 17		- -		
	iSSN	14 00		-		
23	iPZ	01 14 28		+	11°	H 01 12 05 (BCIS)
27	ePZ	06 09 40			84°	H 05 57 08 (USCGS)
	iSN	19 58		-		
	MN	06 53	15	4		
27	iPPN	17 29 51		-	111°	H 17 10 33 (USCGS)
	iPSE	39 23		-		
	ME	18 17				

28 no recording from 00 hrs. to 11 hrs.

15th February, 1962.

DURHAM UNIVERSITY OBSERVATORY ENGLAND



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

SEISMOLOGICAL BULLETIN FOR DECEMBER, 1961

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	21 25 18		-	86°	H 21 13 04
	ipPZ	26 11		-		.03 deep
	iSKSE	35 35		+		(USCGS)
	iSE	35 51		-		
	isSE	37 28		+		
	ME	22 04	17			
2	iPZ	12 44 49		-	19°	H 12 40 18
	iSE	48 45		-		(BCIS)
	MN	12 52	10	7		
3	No recording 12 hr. to 19 hr.					
4	ePN	12 49 07			67°	H 12 38 12
	MN	13 16	20	20		(USCGS)
	MN	13 22	15	12		
6	No recording 09 hr. to 7 December 09 hr.					
9	ePZ	02 26 08			67°	H 02 15 22
						(USCGS)
9	iPPZ	11 37 55		-	116°	H 11 18 09
	eSSE	53 56				(USCGS)
	ME	12 26	18	28		
	ME	12 32	19	35		
9	iPKPZ	20 08 20		+	147°	H 19 49 41
	iPKPZ	08 22		+		.10 deep
						(USCGS)
12	iPZ	23 18 16		-	78°	H 23 06 18
						(USCGS)
20	iPZ	13 37 10		+	76°	H 13 25 34
	iXE	37 15		+		.03 deep
	iPcPZ	37 23		+		(USCGS)
	iXEZ	37 54		- -		
	ipPZ	38 08		-		
	iSN	46 45		-		
	iSKSN	47 15		+		
	isSN	47 55		-		
	iXN	49 41		-		
	iGNE	57 25		- -		
24	ME	24 48	19	7	111°	H 23 43 19
	ME	24 58				(USCGS)
25	ePKPZ	14 15 37			144.5°	H 13 55 39
						.01 deep
						(USCGS)

Sheet 2

Date	Phase and component	Time G.M.T.	Period sec.	Amplitude microns and direction	Epicentral distance	Notes
27	iPPZ	24 13 27		+	168°	H 23 48 01
	ME	25 22	20	5		.01 deep
	ME	25 32	18	9		(USCGS)
	ME	25 35	17	8		
	ME	25 40	16	6		
	ME	25 45	19	8		
30	iPSE	01 01 06		+	73°	H 00 39 24
	iXE	01 27		+		.01 deep
	iSSE	05 18		-		(USCGS)
	MN	01 34	16	18		
30	MN	07 41			52°	H 07 08 29 (USCGS)

1st March 1962.