JULY-DEC ONLY

SCOTT BASE

77° 51'S 166° 48'E

ELEVATION, 109 feet.

SEISMOLOGICAL BULLETIN

JULY 1957

Instrument	Component	Symbol	To(sec)	Tg(sec)	Film Speed (15 mm/min) as viewed on screen
Benioff	Vertical	z	0.6	0.2	120
		Z	0.6	25.0	120
Benioff	Horizontal N - S	n	0.5	0.2	120
		N	0.5	10.0	120
Benioff	Horizontal E - W	e	0.6	0.2	120
		E	0.6	25.0	120

Recordings on 35 mm film and enlarged 8 times in viewer.
Amplitudes as measured from screen.

First Movements: + indicates ground movements towards north, east, or upwards (compression).

\- indicates ground movements towards south, west, or downwards (dilatation).

No.	Day	Phase		h. m. s.	T (sec)	A (mm)	Remarks:
1	1	eP	z	02 32 03	½		
		eX	z	33 14	½		
2		iP	z	06 36 23	½		
3		eX	z	13 18 10			Very weak.
4		eX	z	13 31 14	1		Weak.
5		eP	z	19 44 52	½		
		ePKP	z	48 59	1		Could be PP.
		eX	z	20 00 01	1		
6	2	ePKP	z	00 04 55			
7		iPKP	z	01 01 32	1.6		+2½
		iPP	z	03 46	2		-1¼
		eL	Z	53.0	20		
8		eP	z	07 55 06			
9		eX	z	14 56 54			
10		eP	z	15 08 11			
11		eP	z	22 03 52			
12	3	iP	z	06 11 19	0.8		-1½
		iPcP	z	12 14	0.5		-1
		epP	z	13 05			
		iScP	z	15 21	0.6		+½

No.	Day	Phase		h. m. s.	T (sec)	A (mm)	Remarks:
13	3	ePKP	z	12 43 45	1½		
14		eX	z	12 56 25			Very weak arrival.
15	4	iP	z	08 41 07	1		
16		eP	z	09 54 17	½		
17		eP	z	14 23 09			Very weak and emergent.
18		eX	z	16 05 20			Very weak.
19		eP	z	23 12 00			
20	5	eX	z	00 34			Near tremor.
21		eP	z	06 35 27	1		
		eX	z	36 19	1		
22		iP	z	12 42 32	1	+1	
		ePcP	z	44 00	½		
		eS	N	49 33	5		
23		eX	z	16 59 30			
24		eX	z	20 19 53			
25	6	iP	z	00 31 53			Weak.

No.	Day	Phase		h. m. s.	T (sec)	A (mm)	Remarks:
26	7	eX	z.e.n.	09 58 11			Local.
27		eP	z	15 46 49			
28		iP	z	16 22 38	1	+2	
		eS	E	31 58	7		
		eX	N	32 21	5	1	
		eScS	N	32 43	5	1¼	
		eX	z	33 30			
		eL	Z	46.0	20		Surface waves not well developed.
29	9	eP	z	10 10 07	1		
		eX	N	19.0			
		eL	Z	38.0	20		
30	11	eX	z	1° 50 54			
31		eX	z,e	00 02 02			
32		iP	e	04 16 29			Local.
33		eX	z	21 08 09			
34		eX	z	22 10 35			Very emergent.
35		eX	z	22 16 49			Very emergent.
36	13	iP	z	01 50 38			

No.	Day	Phase		h. m. s.	T (sec)	A (mm)	Remarks:
37	13	eP	z	09 42 39			
		iX	z	40			
38		eP	z	14 09 13			
39		eP	z	14 34 53			
40		eP	z	16 11 22			
41	14	ePKP	z	02 45 50			
42		iP	z	06 32 49	0.8	+11	
		iP	N	32 49	2	-4	
		ipP	z	33 32	2	-6	
		eX	z	34 01	1½	4	
		eX	Z	35 26	7		
		iScP	z	37 36	2½	+2	
		iS	N	39 59	6½	+7	
		eX	z	40 05	3	½	
		iScS	N	42 20	6½	-4	
		eL	Z	53.0	15	1½	
43		eP	z	07 02 52			
44		iP	z	08 19 38	1	+4	
		iP	N	19 39	5	-3	
		eX	z	23 35	2-3		
		iS	N	26 44	6	-9	
		eX	N	27 48	9		
		eX	N	30 04	7		
		eX	N	30 54	7		
		eL	Z	34.0	30	1½	Dispersion of surface waves.

No.	Day	Phase		h. m. s.	T (sec)	A (mm)	Remarks:
45	14	iP	z	09 52 26	1	+1	
46	15	eP	z	12 48 02	1		
47	16	eP	z	04 30 19			Weak.
48		eP	z	17 09 19			Weak.
49	17	eX	z	03 22 35			
50		eP	z	05 24 39			
51		iP	z	11 21 00	1	+9	
		iP	N	00	5	-4	
		iP	e	00	0.8	+1	
		iX	z	21 54	1	-1½	
		eX	N	27 37	7		
		iS	N	29 46	4	-4	
		eScS	E	30 35	7		
		eX	E	32 14	7		
		eL	Z	46.0			Not well developed.
52		eX	z	11 49 34			
53		eP	z	12 38 06	½		
54		eX	z	12 50 40			
55	18	eX	z	00 41 52			

No.	Day	Phase		h. m. s.	T (sec)	A (mm)	Remarks:
56	18	eX	z	09 07 10			Weak.
57		eX	z	10 09 01			Weak.
58		eX	z	11 22 40	1		
59		iP	z	13 32 48	1		+1
60		iP	z	19 07 46			
61		iP	z	19 47 31			
		eS	N	50 25			
62		eX	z	20 01 15			
63		eX	z	21 52 14			
64	19	ePKP	z	13 20 29			
65		eX	z	14 46 18			
66		eP	z	20 37 53			Weak.
67		eP	z	21 48 33			
68	20	eP	z	10 07 36			
		iP	z	37	1		$+\frac{3}{4}$
		eS	N	17 33	$5\frac{1}{2}$		$\frac{3}{4}$
69		iP	z	11 22 45			

No.	Day	Phase		h. m. s.	T (sec)	A (mm)	Remarks:
70	20	eX	z	13 07 47			
71		eP	z	15 48 53	1		
		iPcP?	z	49 09	1	+	
72		eX	z	19 03 40			Very weak.
73		eX	z	21 00 48			
74		eX	z	21 20 26			
75	21	eP	z	00 34 29			
76		eP	z	06 02 54	1		Very emergent.
		eX	z	03 06	$2\frac{1}{2}$		
		eX	z	03 24	4		
		eL	Z	07.4			Dispersion of Surface Waves.
77		eX	z	06 15 20	3		
78		eP	z	06 47 07	1		
79		iP	z	07 11 47	$\frac{1}{2}$	-	
80		eP	z	13 26 10			
81		iP	z	19 46 08	1	$-\frac{3}{4}$	
82	22	iP	z	06 25 20	1	+1	
		ipP	z	25 28	$\frac{3}{4}$	-4	
		iPcP	z	26 58	$\frac{3}{4}$	$+3\frac{1}{2}$	

No.	Day	Phase		h. m. s.	T (sec)	A (mm)	Remarks:
82	22	eS	N	32 02	6½		1½ cycles only, rather spiked phase.
83		eP	z	06 30 17			
		ipP	z	30 25	¾	-1½	
		iPcP	z	31 53	½	+1	
84		eP	z	10 45 35	½		
85	23	ePKP	z	01 04 19			
		eSKP	z	07 40			
		eL	Z	53.1			Not well developed.
86		eP	z	06 30 34			
		eX	z	31 38			
87		eX	z	13 38 52			
88		eX	z	22 37 33			
89	24	eP	z	02 08 28	3		
90		eP	z	02 36 42	1		
91		eP	z	06 13 38	½		
92		eX	z	06 22 42			
93		iP	z	10 07 06	1	+¾	
94		iP	z	10 58 48	¾	-½	

No.	Day	Phase		h. m. s.	T (sec)	A (mm)	Remarks:
95	24	eP	z	11 12 38	1¼		
		iX	z	47	0.8	+1½	
		eS	N	20 54	4	1	
		eS	e	56	4		
		eX	N	21 48	5	1	
		eL	Z	32.0	15		Surface Waves with Dispersion.
96		eX	z	14 52 38			
97	25	eP	N	01 06 25			Local.
98		iP	z	11 16 06	½	+¾	
99		eX	z	22 50 25			
100	26	eP	z	06 57 45			
101	27	eX	z	06 48 50	½		
102		eP	z	14 19 07	1		
103		iP	z	14 55 25			
104		iP	z	18 54 27	1	-¾	
105	28	eX	z	01 41 17	½		
106		eX	z	02 58 29	½		

No	Day	Phase		h. m. s.	T (sec)	A (mm)	Remarks:
107	28	eX	z	05 44 47			
108		eP	z	08 54 39	2		Very emergent.
		iPP	Z	59 05	5	-3	
		iPP	z	59 07	2.6	+2	
		iX	z	59 20	4½	-2½	
		eX	Z	09 00 00	10		
		eSKS	N	05 14			
		eX	z	09 49			Possibly different seism.
		eL	Z	14.5	25	12½	Dispersion of Surface Waves.
109		eX	z	13 22 22			
110	29	eX	z	00 43 24			
111		eX	z	09 21 56			
112		eX	z	10 05 42			
113		eX	z	15 59 07			
114		iP	z	17 26 53	1	+1	First movement in time mark.
		eS	n	36 27	5		
		eS	e	36 27	5		
		eL	Z	50.8			
		ePKPPKP	z	54 18	2		
115	30	eX	z	02 23 13	2		
116		eX	z	02 38 08			

No.	Day	Phase		h.	m.	s.	T (sec)	A (mm)	Remarks:
117	30	eX	z	05	57	13			
118		eX	z	07	50	20			
		eX	z		51	09			
119		eX	z	08	11	39		1	
120		eX	z	17	05	51			
121		eX	z	20	56	50			
122	31	eP	z	07	44	30		1	
123		eX	z	10	54	00		½	Near or local.
124		iP	z	20	18	07		½	+1½

SCOTT BASE

77°51'S 166°48'E.

ELEVATION, 109 feet.

SEISMOLOGICAL BULLETIN

AUGUST, 1957

INSTRUMENT	COMPONENT	SYMBOL	To(sec.)	Tg(sec.)	FILM SPEED (15mm/min.) As viewed on screen.
Benioff	Vertical	z	0.6	0.2	120
		Z	0.6	25.0	120
Benioff	Horizontal N - S	n	0.5	0.2	120
		N	0.5	10.0	120
Benioff	Horizontal E - W	e	0.6	0.2	120
		E	0.6	25.0	120

Recordings on 35 mm. film and enlarged 8 times in viewer.
Amplitudes as measured from screen.

First Movements: + Indicates ground movements towards North, East, or Upwards (compression).

\- Indicates ground movements towards South, West, or Downwards (dilatation).

No.	Day	Phase		h. m. s.	T (sec.)	A (mm.)	Remarks:
1	1	eP	z	05 52 33			Near?
2		eP	z	17 06 17			
		iP	z	18	1	+	
3		eX	z	20 16 32			
4		eX	z	21 30 59			
5	2	eP	z	02 20 12	1		
6	3	eP	z	03 46 16			Near.
7		eP	z	06 55 37			
8		eP	z	08 24 45			
9		eP	z	09 56 18			Local or near quake.
10	4	eP	z	00 50 55			
		eX	z	51 03			
11		eP	z	02 31 22			
12		eX	z	09 34 47	1½		
13		iP	z	21 18 12	1	+	
		ipP	z	18	1¼	+1½	
		eX	N	20 54			

No.	Day	Phase		h.	m.	s.	T (sec.)	A (mm.)	Remarks:
13		eS	E		26	02	10		
		eX	E		27	35	6		
		eL	E		34.4				Not well recorded.
14	5	eP	z	04	39	13			
15		eP	z	08	24	18			
16		eP	z	21	38	52			
17	6	eP	z	04	14	36			Near.
18		eP	z	05	19	32			Near.
19	7	eP	z	04	46	22	$\frac{3}{4}$		
20		eX	z	05	00	15	$\frac{1}{2}$		
21		eP	z	09	02	37			Weak.
		epP	z			49			
22		eX	z	10	23	48			
23		eX	z	16	28	49			
24		iP	z	19	50	00	1	-? $1\frac{1}{2}$	First movement in time mark.
		epP	z		51	51	1		
		eS	N		57	31	5	1	

No.	Day	Phase		h.	m.	s.	T (sec.)	A (mm.)	Remarks:
25		iP	z	19	58	27	½	+	
						37	½		
26		eX	z	21	26	35			
27	8	eP	z	03	30	20			Local, with crustal phases?
28	9	iP	z	02	41	19	1	-2¼	
		iP	e			19	1	-¾	
		eX	N		45	29			
		eS	e		51	18			
		eL	Z	03	05				Poorly developed surface waves.
29		eX	z	22	02	46			
30	10	eP	z	00	05	54			
31		eX	z	02	06	58			
32		iP	z	02	27	31	1	+1½	
		ipP	z			29	28		
		eS	N		34	44			
		eX	N		35	36			
33		eP	z	04	06	08			
34		eP	z	12	12	54			

No.	Day	Phase		h.	m.	s.	T (sec.)	A (mm.)	Remarks:
35		eP	z	19	24	51			
		eS	N		34	46	5		
36	11	iP	z	05	20	15	1	$-\frac{3}{4}$	
		ipP	z			24	1	-2	
		eX	z			36	$2\frac{1}{2}$		
		eX	z		25	57	1		Different seism?
		eScS	N		30	08	7		
37		eX	z	13	48	56			
38		eP	z	21	48	13			
		ipP	z			20	2	-2	
		eS	N		56	28	4	$1\frac{1}{2}$	
		eS	e			31	$4\frac{1}{2}$		
		eL	Z	22	08.0		25		
39		eP	z	22	12	35			
		eX	z		17	48	2		
40	12	eP	z	07	21	36			
41		eP	z	10	35	07			
42		eXz	e	15	18	10			
43	13	eX	z	03	21	51			
44		eX	z	06	22	55			

No.	Day	Phase		h.	m.	s.	T (sec.)	A (mm.)	Remarks:
45		eX	z	08	15	51			
46		ePKP	z	12	19	27			
47		eP	z	12	29	17			
48		eP	z	14	55	36			
49	14	eX	z	01	33	13			Very weak.
50		eP	z	03	47	50			Local.
51		eP	z	04	06	10			Local.
52		eP	z	05	26	26			Local.
53		iP	z	18	36	27	0.8	+1	
		ePe	n			27			
		ipP	z		36	39	1	-1	
		epP	e			39			
		eX	z		37	13			
		eX	Z		45	.0	10		
54	15	eP	z	06	12	05			Local.
55		eX	z	12	07	34			
56		eP	z	18	29	35			Local.

No.	Day	Phase		h.	m.	s.	T (sec.)	A (mm.)	Remarks:
57		iP	z	20	56	05	1	-1¾	
		iP	e			05		-?	
		eP	n			06			
		eS	N	21	04	59	5½	1½	
58	16	eP	z	03	37	36			
		epP	z			38	02		
59		eP	z	12	08	47			
		epP	z			09	11		
60		eP	z	14	59	14			Very weak.
61		eX	z	17	44	19			
62		eP	z	18	38	52			
63		eX	z	23	46.8				Very weak and emergent.
		eL	Z	24	19.5				Dispersion of surface waves.
64	17	eP	z	02	33	23			
65		eX	z	04	28	25			
66		eX	z	04	37	30			
67		iP	z	12	18	36			+
68		eX	z	18	36	53			
69		eX	z	18	43	19			

No.	Day	Phase		h.	m.	s.	T (sec.)	A (mm.)	Remarks:
70		eZ	z	19	43	6			
71	18	eY	z	00	11	52			Weak.
72		eP	z	06	40	00		1	
		eX	N		42	03		5	
		eS	Z		44	36			
		eS	E		44	50			
		eL			46	35			Dispersion of surface waves.
73		eP	z	08	50	14		2	
		eS	E	09	01	20		7	
		eX	e		02	25			
74		eP	z	16	11	46			
75		iPKP	z	22	01	35		1	+
		eSKP	z		04	48			
76	19	eP	z	00	22	49			
77		iP	z	02	52	43		1	+
78		eX	z	07	20	15		1	Weak with indefinite onset.
		eX	z		26	40			
79		eP	z	11	45	38			
80		eP	z	20	29	55			Local.

No.	Day	Phase		h.	m.	s.	T (sec.)	A (mm.)	Remarks:
81		ePKP	z	21	51	03			
		eSKP	z		54	21			
82	20	eP	z	04	54	27		1½	
		eP	e		54	30			
		eL	N	05	02.1				Dispersion of surface waves.
83		eP	z	05	48	21			Local.
84		eP	z	06	38	07			
		eP	e		38	12			
		eS	e		47	05			Very weak and emergent.
		eL	Z	07	02.5				Weak surface waves.
85		eX	z	11	24	12			Very weak.
86		eP	z	12	12	54			
		eP	e			58			
		eS	E		21	53		10	
		eS	N			56		8	
87		eX	z	18	52	39			
88		eX	z	23	07	51			
89	21	eP	z	05	55	16		1	
		eP	N			19			
		epP	z			25			
		ePcP	z		57	33		2	

No.	Day	Phase	h.	m.	s.	T (sec.)	A (mm.)	Remarks:
90		eX z	14	49	04			
		eX e			12			
		eXN n			17			
91		eP z	17	49	06			
92		eP z	19	50	15			
93	22	ePz e	03	18	08			Local.
94		iP z	04	56	25		+	
95		iP z	08	07	28	½	+	
		eP e			28			
96		ePz e	09	40	03			Local.
97		iP z	15	39	38			
98		eX z	16	46	31			
99		iP z	16	54	02	2	+2½	
		ePn e			03			
100		eX z	18	43	50			
		eX z		47	53			
101		iP z	19	04	13	¾	+	
102		eP z	21	35	03			Local.
103		eX z	22	28	20			

No.	Day	Phase		h.	m.	s.	T (sec.)	A (mm.)	Remarks:
104	23	iP	z	02	11	35	1	-1	
		eP	e			35			
		ipP	z			51	1	-1½	
		eScS	N		21	27	8		
		eScS	E		21	35	10		
		iX	N		22	22	8	-	
105		iP	z	02	43	45	1	+	
106		eP	z	04	18	54			
107		iP	z	13	45	12	1½	+	
		eP	e			12			
		epP	z			36	1½		
108		eP	z	16	26	52	¾		
109		eP	z	20	19	48			
110		iP	z	23	02	50	½	+	
111	24	eP	z	01	12	16			
112		iX	z	01	38	43			
113		eX	z	01	56	45			
114		eP	z	08	28	40			Local.
115		eP	z	09	47	19			Local.
116		eP	z	10	16	57			Local.

No.	Day	Phase		h.	m.	s.	T (sec.)	A (mm.)	Remarks:
117		eP	z	10	50	18			Local.
118		eP	z	11	52	57			Local.
119		eP	z	15	13	02			
120		iPz	e	15	55	57			
121		eX	z	17	04	19			
122		eX	z	23	12	00			
123	25	eX	z	12	49	17			Local.
124		eX	z	14	01	26			
125		eP	z	15	04	02			
126		iP	z	15	24	28	2		-4
		iP	N			29			-
		iP	e						-
		eL	E			28.0	12		
127		eX	z	18	43	34			
128		eP	z	21	23	15			
129	26	eX	z	04	48	42			
		eX	e			46			
130		ePKP	z	07	12	25			

No.	Day	Phase		h.	m.	s.	T (sec.)	A (mm.)	Remarks:
131		eX	z	11	14	07			
132		iP	z	11	41	02	1½	+1	
		eP	e			03			
		eS	N		50	44			
		eL	Z	12	14.0		20	2	Dispersion of surface waves.
133		eX	z	11	59	50			
134		eX	z	12	07	55			
135		eP	z	14	12	02	1½		
136		iP	z	20	04	56	1	+	
137	27	eX	z	03	32	35			
138		eX	z	19	36	41			
139		iP	z	21	04	50	1	+2	
140		iP	N	21	04	50	1	-	
		eX	z			05 18			
		eX	z			08 48			
		eS	N			11 37			
141	28	iP	z	08	28	16	1½	-1¾	
		eP	e			18			
142		eP	z	20	38	54			Local.

No.	Day	Phase	h.	m.	s.	T (sec.)	A (mm.)	Remarks:
143	29	ePe n	14	11	28	1		
		eP z			29	1		
144	30	eP z	03	59	43			
145		eP z	09	39	30			Local.
146		eP z	17	12	17			Local.
147		eX z	20	22	00			
148	31	eX z	10	10	35			
149		eX z	12	05	30			
150		eX z	17	04	29			
151		eX z	17	58	00			

SCOTT BASE

77° 51'S 166° 48'E

ELEVATION, 109 feet.

SEISMOLOGICAL BULLETIN

SEPTEMBER 1957

Instrument	Component	Symbol	To(sec)	Tg(sec)	Film Speed (15 mm/min) as viewed on screen.
Benioff	Vertical	z	0.6	0.2	120
		Z	0.6	25.0	120
Benioff	Horizontal N - S	n	0.5	0.2	120
		N	0.5	10.0	120
Benioff	Horizontal E - W	e	0.6	0.2	120
		E	0.6	25.0	120

Recordings on 35 mm film and enlarged 8 times in viewer.
Amplitudes as measured from screen.

First Movements: + indicates ground movements towards north, east, or upwards (compression).

\- indicates ground movements towards south, west, or downwards (dilatation).

No.	Day	Phase		h.	m.	s.	T (sec)	A (mm)	Remarks:
1	1	eX	z	11	07	25			
2	2	eP	z	00	13	27			
3		eP	z	05	48	08			
		eP	e				10		
		eP	N				18		
4		eP	z	09	57	05			
		ePe	N				09		
		eS	N	10	05	44			
5		ePKP	z	14	39	23			
		eSKP	z				42	44	
6		eP	z	20	29	50			
7		eX	z	21	46	13			
8	3	eP	z	06	17	32			
		eP	e				36		
9		iP	z	14	49	17			+
		eP	e				17		
10		eP	e	21	57	45			
		eP	z				48		
		eP	n				52		

No.	Day	Phase		h. m. s.	T (sec)	A (mm)	Remarks:
11	4	eP	z	01 42 12			
12		eP	z	04 42 22			
13		eX	z	11 38 27			Weak.
14		eP	z	12 38 28			
15		eP	z	22 47 56			Weak.
16	5	eP	z	01 34 29			Weak.
17		eP	z	03 20 55			
18		eX	z	07 13 18			
19		eXz	e	07 27 25			
20		iP	z	07 29 15			+
21		eP	z	07 34 10			
22		eXz	e	07 46 30			
23		ePKP	z	11 55 06			Weak.
24		eP	z	14 02 23			
25		eP	z	19 10 27			

No.	Day	Phase		h. m. s.	T (sec)	A (mm)	Remarks:
26	6	eP	z	00 29 42			
27		ePKP	z	05 13 44			
28	7	ePKP	z	07 07 40			
29		ePKP		10 25 54			
		eX	z	26 06			
		eSKP	z	29 14			
30		eX	z	11 03 34			
31	8	eX	z	03 26 31			
32		eP	z	08 53 17			
33		eX	z	09 40 16			
34		eP	z	13 30 25			
25	9	iP	z	00 20 58	1	+1	
		eP	e	58	1		
		eP	N	21 03			
		eS	e	27 05			Very emergent.
		eL	Z	29.0			Dispersion well displa[illegible]
36		iP	z	05 03 42	1	+	

No.	Day	Phase		h. m. s.	(T (sec)	A (mm)	Remarks:
37		iP	z	09 11 06	1¼	+¾	
		eP	e	07	1¼		
38		ePz	e	12 21 38			
39	10	ePz	e	07 03 39			Near?
40		eX	z	17 40 46			Weak.
41	11	eP	z	13 25 00			
42		iP	z	13 51 03	¾	+1¼	
		iP	e	03	¾	-1	
		epP	z	52 52			
43		iP	z	23 32 40	1	+1	
		iP	e	40	1	-1	
		iP	N	40		-	
		ipP	z	50		+	
44	13	eP	e	09 12 13			
45		eP	e	12 55 08			
46		eP	z	16 33 20			
		ipP	z	34 30		+	

No.	Day	Phase		h.	m.	s.	T (sec)	A (mm)	Remarks:
47	14	ePze	n	12	41	09			
		eX	N			37			
		eL	Z		45.7				Dispersion of surface waves.
48	15	iP	z	04	34	01			+
		iP	e			01			+
		iS	E		43	32			+
		eScS	E			51			
49		ePz	e	18	53	41			
		eS	e	19	02	12			
50	17	eP	e	13	46	11			
51		eP	e	14	34	18			
52		eX	e	20	36	48			Near.
53	19	iP	z	01	04	55			+
54	20	eP	z	10	09	36			Weak.
55		iP	z	11	36	57			
56		ePz	e	16	14	22			
57	20	eX	z	17	06	40			

No.	Day	Phase		h.	m.	s.	T (sec)	A (mm)	Remarks:-
58		eP	z	18	56	23			
59	23	iP	z	09	34	17		+	
60		iP	z	18	54	40		+	
61	24	eP	z	01	55	05			
62		iP	Z	08	33	48	3	+2	
		ePe	n			52			
		ipP	z		34	02	$1\frac{1}{4}$	-3	
		iX	Z			13	$2\frac{1}{2}$	$-2\frac{1}{4}$	
		iPP	z		37	04	$1\frac{1}{2}$	$+2\frac{1}{2}$	
		iX	N			26	2	+4	
		iX	N		43	57	3	$-1\frac{1}{2}$	
		iX	Z		44	20	$5\frac{1}{2}$	+1	
		iS	N		44	31	$5\frac{1}{2}$	+5	
		ePKKP	z		51	29			
		ePKPPKP	z	09	00	01			
		eL	Z		03	.5			Surface waves with dispersion.
63		eX	z	09	20	13			Very weak.
		eX	z			32	$2\frac{1}{2}$		
64		eP	z	09	23	15			
65		eX	z	17	28	01			Near tremor.
66	25	eP	z	16	49	25			
		eS	N		59	51			

No.	Day	Phase		h. m. s.	T (sec)	A (mm)	Remarks:
67	26	eP	z	10 20 35			
68		iP	z	12 10 11	1	-4	
		iPn	N	11			
		eP	e	12			
69		iP	z	18 59 27		-	
		eP	n	30			
		eS	N	19 10 27			
70	27	eXze	n	02 52 42			Near?
71		eP	z	04 20 32			
		ePe	n	37			
		eS	N	30 39			
72		eP	z	04 30 55			
		ePe	n	58			
73		ePKP	z	05 18 18			
74		eP	z	06 09 00			
		ePn	e	02			
75		eP	z	11 40 29			
76		eXze	n	14 50 10			Near?
77		iPz	e	22 48 31			
		eP	n	31			

No.	Day	Phase	h.	m.	s.	T (secs)	A (mm)	Remarks:
78	28	ePKPz	e	00	45	09		
79		eP	z	04	23	14		
80		iP	z	14	29	02	½	-13
		iP	e			02	½	+14
		iP	n			02	½	+4
		ipP	Z		30	54	7	+4
		ipP	N			54	7	-7
		ipP	z			58	1	-3
		iX	z		31	02	1	-7
		iX	N		32	23	2	-4½
		iPPP	z			48	3	-3
		eS	z		36	20		
		iS	E			21	10	+7
		iS	N			22	4½	+26
		iS	e			22		+
		iScS	E		37	52	9	+5
		iScS	N			53	8	-15
		iScS	e			55		-
		isS	N		39	47	11	+12
		isS	E			47	9	-4
		iSS	N		40	35	5	-6
		ePKPPKP	z		58	24	1½	
		eX	z			45	3	
81	28	iP	z	14	40	56		+
		ePe	n			56		
82		iP	z	14	53	06		+

No.	Day	Phase		h. m. s.	T (sec)	A (mm)	Remarks:
83		ePze	n	23 35 22			
		iP	z	24		+	
84	29	eP	z	02 12 38			
		iP	z	39		-	
		ePNn	e	39			
		eX	n	13 29			
		eL	E	16.7			Surface waves with dispersion.
85		eX	z	06 48 45			Near?
86		iP	z	06 49 32		+	
87		iP	z	07 15 15		+	
88		iP	z	08 21 50	1	+6	
		eP	n	50			
		iP	N	51	1½	-	
		iP	Z	51	1½	+	
		iS	e	28 41	2½	+5	
		eS	n	41	2½	2	
		iS	E	42	4	+1½	
		iS	N	44	3	-8	
		eScS	e	30 42	3		
89		eX	z	10 23 28			Near?
90	30	eP	z	08 11 39			

No.	Day	Phase		h. m. s.	T (sec)	A (mm)	Remarks:
91		eP	z	12 18 50			
92		eP	z	13 55 44			

SCOTT BASE

77° 51'S 166° 48'E

ELEVATION, 109 feet

77.85
166.8

SEISMOLOGICAL BULLETIN

OCTOBER 1957

Instrument	Component	Symbol	To(sec)	Tg(sec)	Film Speed (15 mm/min) as viewed on screen
Benioff	Vertical	z	0.6	0.2	120
		Z	0.6	25.0	120
Benioff	Horizontal N - S	n	0.5	0.2	120
		N	0.5	10.0	120
Benioff	Horizontal E - W	e	0.6	0.2	120
		E	0.6	25.0	120

Recordings on 35 mm film and enlarged 8 times in viewer.
Amplitudes as measured from screen.

First Movements: + indicates ground movements towards north, east, or upwards (compression).

\- indicates ground movements towards south, west, or downwards (dilatation).

No.	Day	Phase		h.	m.	s.	T(secs)	A(mm)	Remarks:
1	1	iP	z	07	23	50			
2		eXze	n	09	35	48			Near.
3		eXze	n	22	23	57			Near.
4	2	eP	z	11	37	48			Very emergent.
5		ePKP	z	12	46	54			Very weak and emergent.
6		eP	z	20	51	32			
		ePen	N			36			
		eS	N		58	31			
		eL	E	21	09	.5			
7		eP	z	21	11	21			
8	3	ePze	n	06	09	59			
9		eP	z	13	54	03			
10		eP	z	14	09	08			
11	4	iP	z	01	10	10			-
		ePcP	z		11	05			
12		ePKP	z	05	44	48			Very emergent.
		eL	Z	06	16	.0			
13		eP	z	07	05	48			Coda of 8 minutes.

No.	Day	Phase		h.	m.	s.	T(secs)	A(mm)	Remarks:
14		eP	z	08	25	41			
15		eXze	n	09	48	45			Near?
16		eP	z	12	24	55			
17		eP	z	20	57	45			
18		eXze	n	23	09	50			Near?
19	5	ePKP	z	00	14	54			
		eSKP	z			18	02		
20		ePKP	z	11	56	15			Weak.
21		eXze	n	14	32	10			Near?
22		eP	z	16	17	15			Very emergent.
23		iP	z	21	17	08		+	
		iP	e			08		-	
		eP	n			09			
24	6	ePze	n	12	58	13			Near.
25	7	ePz	e	04	03	49			
26		eX	z	13	28	35			

No.	Day	Phase		h.	m.	s.	T(secs)	A(mm)	Remarks:
27		iP	z	16	57	49		+	
		ePen	N			49			
									Oct 8th - Blizzard interfered with recording.
28	10	iP	z	03	55	40	1	+2	
		ePe	n			40			
29		iP	z	18	53	32	½	+	
		iP	e			32		-	
		eP	n			32			
		iPcP	z		54	26		+	
		iPcP	e			26		-	
30	11	eP	z	20	38	52			Very weak arrival.
31	12	eP	z	16	54	36			
		eP	e			39			
32		iP	z	19	08	47		+	
		iP	e			47		+	
		eP	N			49			
		iS	N		18	21		-	
		eX	N		20	07			
33	14	eP	z	03	21	44			
34		iP	z	14	19	58		+	

No.	Day	Phase		h.	m.	s.	T(secs)	A(mm)	Remarks:
35	15	iP	z	06	03	53		-	
		iP	e			54		-	
		eP	n			54			
		ePcP	z		05	15			
36		ePze	n	09	51	54			
37	17	ePKP	z	14	57	21			
		ePKP	e			24			
38		eX	e	18	03	13			
39	18	eP	z	13	53	30			Near?
40		iP	z	19	18	32	1	-	
		eP	n			32			
41		ePz	n	19	51	30			Near?
42	19	ePz	e	13	01	43			Near?
43		ePKP	z	18	47	15			Very emergent.
		ePKPn	e			30			
44	20	eP	z	06	50	17			Near?
45		eX	z	12	33	55			Very weak and emergent.

No.	Day	Phase		h.	m.	s.	T(secs)	A(mm)	Remarks:
46		iP	z	16	05	39			
		eP	n			39			
		eP	e			40			
		eX	N		09	29			
47		eP	z	21	40	08			
		eP	e			12			
48	21	eP	N	00	28	14			Short Period recorders off.
		eS	N		37	07			
49		eP	z	07	13	31			
50		eP	z	15	14	35			
51	24	iP	z	00	02	28			-
		eP	n			28			
52		eP	z	00	28	08			
		eP	n			09			
		eP	e			12			
53		iP	z	09	16	37	.4		+2
		eP	n			38			
		eP	e			38			
		eX	z			50			
		iPcP	z		17	15	.3		-2
		iPcP	e			15	.3		+3
		iPcP	n			15	.3		-
		epP	z		18	27			

No.	Day	Phase		h.	m.	s.	T(secs)	A(mm)	Remarks:
53		eX	z	20	30				
		iS	N	24	00		5		+2½
		eScS	N	25	34		4		1
		eSS	E	27	15		9		
54		eP	z	20	18	23			
		eP	e			23			
		eP	n			23			
55	25	iP	z	04	42	35	½		-7
		iP	e			35	½		-2
		iP	n			35	½		-4
		iS	e		43	09			+30
		iS	n			09			+6
		eS	z			09			6
56		ePKP	z	10	22	37	1½		
		ePKP	e			51			
57		eP	z	20	51	14			
		eP	n			15			
58	26	ePze	n	04	43	25			
59		iP	z	08	35	16	½		+
		ePe	n			16			
		epP	z		37	12			
		iS	N		42	37	6		+2
		eScS	N		44	06	4½		
60		ePze	n	17	47	02			

No.	Day	Phase		h.	m.	s.	T(secs)	A(mm)	Remarks:
61	27	iP	z	05	51	15		+	
		iP	e			15		-	
62		ePKP	z	22	51	30	1		
		eX	z			40	1		
		eX	z		52	17	1		
		eSKP	z		54	56			
63		iP	z	23	07	47		+	
		iP	e			47		-	
64	28	ePze	n	08	29	20			
		eS	e			55			
65	29	eP	z	02	33	48			
66	30	ePzc	n	15	15	43			Near.
67		iP	e	19	48	14			
68	31	ePze	n	02	13	44			
69		ePz	e	04	35	20			
70		eP	z	10	37	56			
		eP	e			57			

No.	Day	Phase		h.	m.	s.	T(secs)	A(mm)	Remarks:
71		ePz	N	15	34	32			
		ePe	n			34			
		eX	N		37	37			
		eL	N		42	.1			Dispersion of surface waves.

SCOTT BASE

77° 51'S 166° 48'E

ELEVATION, 109 feet

SEISMOLOGICAL BULLETIN

NOVEMBER 1957

Instrument	Component	Symbol	To(sec)	Tg(sec)	Film Speed (15 mm/min) as viewed on screen
Benioff	Vertical	z	0.6*	0.2	120
		Z	0.6*	25.0	120
Benioff	Horizontal N - S	n	0.5	0.2	120
		N	0.5	10.0	120
Benioff	Horizontal E - W	e	0.6	0.2	120
		E	0.6	25.0	120

Recordings on 35 mm film and enlarged 8 times in viewer.
Amplitudes as measured from screen.

First Movements: + indicates ground movements towards north, east, or upwards (compression).

\- indicates ground movements towards south, west, or downwards (dilatation).

* Vertical Seismometer period adjusted to 1 second, on 21 November.

No.	Day	Phase		h. m. s.	T(sec)	A(mm)	Remarks:
1.	1	eP	zen	20 00 30			Near.
2	2	eP	z	16 29 38			Weak. 6°N 127°½E
3		iP	z	18 41 03	1		+2½
		eP	n	03			
		eS	E	49 43			
		iS	N	44	4		+2
		eScS	N	51 20			
4	3	iP	e	09 58 16			
		eP	zn	16			
		iS	e	19			
5		eP	ze	10 36 19			
		eS	E	45 52	7		
6		eP	e	11 26 03			
7	4	eP	en	18 02 42			Near.
8	5	eP	zen	00 47 54			
9		eP	z	04 03 31			
10		eP	ze	10 04 13			
		iP	z	14			+
		iP	e	14			+

No.	Day	Phase		h. m. s.	T(sec)	A(mm)	Remarks:
		eP	n	14			
		eX	E	10 03			
11	6	eP	z	00 53 09			Weak.
12		eP	ze	05 10 15			Very emergent.
		eS	N	20 14			
13		eP	ze	06 16 19			
14	7	eP	ze	03 09 40			
15		eP	ze	04 37 40			
16		eP	ze	06 27 39			✶
		eL	NE	33.9			Dispersion of surface waves.
17	8	iP	z	02 57 51		+	
		eP	en	51			
18		iP	z	06 29 52		+	
		eP	en	52			
19		eP	z	10 10 13			
20	9	iP	z	19 21 56		+	
21		ep	zen	23 50 57			
		iS	e	51 01			

No.	Day	Phase		h.	m.	s.	T(sec)	A(mm)	Remarks:
22	10	eP	z	02	47	42			
		eP	en			43			
		iX	N		52	19	5	+	
		iS	E		57	03	10	+1½	
		iS	e			04	6	-1½	
		eS	N			07	7		
		iScS	N			49	5	+2½	
		iScS	e			51	2½	-1	
		iScS	E			52	7	-	
		eSS	E	03	00	19	9		
		eL	Z		09.9				Dispersion of Surface Waves.
23		iP	z	03	44	58			
		eP	en			58			
		iS	e			45	07		
24		eP	z	03	55	07			
		eP	e			14			
		eS	e	04	04	30			
		eS	N			36			
		iScS	N			05	16		
25		iP	z	05	37	41	1	+1	
		eP	en			41			
26		eP	z	06	00	26			
		eP	en			30			
		iPPP	N			04	48	+	
		iS	E			09	55	9	+
		iS	N				57	5	-
		eL	Z		23.5				Weak surface waves.

No.	Day	Phase		h.	m.	s.	T(sec)	A(mm)	Remarks:
27		eP	zen	12	45	12			
		iS	e			17			
28		eP	ze	18	13	48			
29	11	iP	z	06	32	44			+
		iP	e			46			-
		ipP	z			48			
		ePcP	z		34	09			
30		eX	ze	11	56	55			
31	12	eP	ze	00	29	34			
32		eP	z	01	43	10			
		eP	e			13			
33		eP	zen	09	45	22			
34		iP	z	17	11	12			-
		eP	e			13			
		iPcP	z			59			+
35		eP	zen	21	42.2				Near.
36	13	iP	z	17	31	08	$\frac{3}{4}$		+3
		iP	e			08	$\frac{3}{4}$		+3
		iP	n			08	$\frac{3}{4}$		-
		iP	N			08	4		$-3\frac{1}{2}$

No.	Day	Phase		h.	m.	s.	T(sec)	A(mm)	Remarks:
		iX	z			52		-	
		iPcP	z		32	44		-	
		iS	N		37	55	10	-6	
		eSS	n		41	23			
		iSS	E			29			
		eL	E			42.9			Dispersion of surface waves.
37	14	iP	z	16	44	42		+	
		eP	e			43			
		ePcP	z			45	21		
38	15	ePKP	ze	16	49	36			
39		eP	zen	21	12	21			
		iS	e			25			
40	16	ePKP	z	02	07	57			Weak.
41	17	ePKP	z	06	16	08			
42	18	eP	zen	12	47.5				Near.
43		iP	zen	19	29	59			
		iS	e			30	02		
44	19	iP	z	02	38	14		+	

No.	Day	Phase		h.	m.	s.	T(sec)	A(mm)	Remarks:
		iP	e			14		+	
		eP	n			14			
		eL			42.9				Surface waves with dispersion.
45		eP	ze	16	29	53			Diffracted?
46		eP	z	19	37	56			
47	20	ePKP	z	12	59	43			Very weak and emergent.
48	21	eP	ze	18	09	20			
49	22	eP	z	16	08	56			
50		iP	z	16	15	16		-	
		iX	z			20		+	
		eP	en			20			
		iX	z			23		+	
51	23	iP	z	22	13	48	1	+2	
		iP	e			48	1	-	
		eP	n			48			
52	24	eP	ze	04	56	22			
53		eP	z	08	01	19			

No.	Day	Phase		h.	m.	s.	T(sec)	A(mm)	Remarks:
54		iP	z	16	12	54			
		eP	en			54			
		iX	z		13	21			
		iX	e			27			
55	25	ePKP	z	04	30	24			Weak.
56		eP	ze	22	47	18			Microseismic level high.
		iX	e			29			
		eX	n			29			
		eS	N		57	28			
		eL	Z	23	20.0				Not well developed.
57	26	iP	z	05	22	18	2	+1½	
		eP	e			18			
58		eP	zen	12	33	40			Near.
59		iP	zen	15	31	18			
		iS	n			38			
60		iP	z	15	35	53		+	
		iP	e			53		-	
		eP	n			53			
61		eP	ze	23	08	25			Near.
		eP	n			32			
62	27	eP	z	03	33	45			

No.	Day	Phase		h.	m.	s.	T(sec)	A(mm)	Remarks:
		eP	e			46			
		epP	z			34 13			
63		eP	zen	04	10	20			Near. ✱
64		iP	z	08	45	20			-
		eP	e			20			
65		eP	z	14	08	30			
66	28	eP	ze	01	41	12			✱
		eX	e			54			
67		iP	z	03	19	41			+
		eP	e			41			
68		eP	z	05	22	45			✱ ✱
69		iP	z	11	11	10			Noumea
70		eP	z	11	54	50			
71		iP	z	21	00	40	2		+2
		eP	en			40			
		iP	N			41	4		-1½
		iX	z			43			+
		iX	e			43			+
		eX	Z	02	59				
		eS	N	09	17				
		eL	E	22.9					Not well developed.

No.	Day	Phase	h. m. s.	T(sec)	A(mm)	Remarks:
72	29	eP ze	06 47 04			
73		eP zen	11 00 14			Weak.
74		eP ze	17 50 14			
75		iP z	21 53 24			
		eP e	24			
76		eiP z	22 31 13	1½	-1½	
		iP z	16	1	-12	
		iP e	16		+	
		iP E	16	6	+2	
		iP n	17		-	
		iP N	17		-	
		iP Z	17	3	-8	
		iPcP N	23	3	+6	
		iPcP n	23	1½	+2	
		iPcP z	24	1	-30	
		iPcP Z	24	3	-22	
		iPP Z	34 02	3	+6	
		iS N	40 45	7	-25	
		iS E	45	9	-2½	
		iScS N	41 11	5	-7	
		iPKKP z	50 28	1	-1	
		iPKPPKP z	58 19	3	-4½	
		iX z	59 20	3	+3	
		iSKPP z	23 01 36	2	-2	
		iX e	03 00	5	-4	
77	30	eP ze	19 41 55			

No.	Day	Phase	h.	m.	s.	T(sec)	A(mm)	Remarks:
78		eP zen	21	10	52			Very weak.
79		eP ze	22	20	53			
80		eP e	23	24	35			Near?
		eP zn			49			

SCOTT BASE

77° 51'S 166° 48'E

ELEVATION, 109 feet.

SEISMOLOGICAL BULLETIN

DECEMBER 1957

Instrument	Component	Symbol	To(sec)	Tg(sec)	Film Speed (15 mm/min) as viewed on screen
Benioff	Vertical	z	1.0	0.2	120
		Z	1.0	25.0	120
Benioff	Horizontal N - S	n	0.5*	0.2	120
		N	0.5*	10.0	120
Benioff	Horizontal E - W	e	0.6*	0.2	120
		E	0.6*	25.0	120

Recordings on 35 mm film and enlarged 8 times in viewer.
Amplitudes as measured from screen.

First Movements: + indicates ground movements towards north, east, or upwards (compression).

\- indicates ground movements towards south, west, or downwards (dilatation).

* N - S and E - W Seismometers period adjusted to 1 second on 15 December.

No.	Day	Phase		h.	m.	s.	T(sec)	A(mm)	Remarks:
1	1	eP	z	11	09	31			
2		eP	ze	12	56	23			
3		iP	z	14	04	17		+	
4		eP	z	19	33	48			
5	2	eP	z	08	24	16			
6		eP	z	14	41	37			
7	3	eP	ze	04	02	24			
8	4	iP	z	00	39	18		-	
		iP	e			18		+	
9		eP	zen	01	18	59			Near.
10		eP	ze	03	46	00			
11		iPKP	z	03	56	59	1½	-2	
		ePKP	en		57	03			
		iPKP	z			07	2	+8	
		ePKP	N			07			
		eX	Z		58	57			
		IPP?	z		59	32	2½	+7	
		iSKP	z	04	00	06	2½	-5	
		eSKP	Z		00	21	12	10	

No.	Day	Phase	h.	m.	s.	T(sec)	A(mm)	Remarks:
		iPKS N	00	38		4	-8	
		iSKKP Z	11	18		15	+10	
		eSS E	16	56		14		
		eSSS E	21	50		15		
		eL Z		44.5				Surface Waves continue for 3 hours.
12		ePKP z	13	39	17			
13		eP z	13	43	56			Near.
14	6	iP z	09	49	45		+	
		eP en			46			
		eX z			55	03		
15		eP zen	12	27	31			Near.
16		eP zen	16	06	46			Near.
17	7	eP z	02	45	54			
18		eP zen	03	27	28			
		iP z			29		+	
19		eP ze	16	05	24			Near.
		eP n			26			
20		eP zen	17	18	50			Near.
21	8	eP zen	00	02	00			Near.

No.	Day	Phase		h.	m.	s.	T(sec)	A(mm)	Remarks:
22		eP	z	01	45	20			
23		eP	z	19	28	51			Near.
		eP	en			53			
24	9	eP	z	15	08	46			
25		iP	z	16	00	07			+
		iP	e			07			-
		eP	n			08			
26		iPKP	z	22	27	25			+
27	10	eiP	z	14	47	21			
		iP	z			23	2		-2
		ePN	ne			23			
		iPcP	z			30			-
		iX	z		48	07			
		eX	z		49	54			
		iS	E		56	44	9		+3
		iS	Z			48	7		+3½
		iS	N			49	7		+3½
		iScS	N		57	31	7		-6
		eSS	N	15	00	35			
		eX	Z			04.5			
		eL	Z			11.4			
28		eP	z	16	04	24			

No.	Day	Phase		h.	m.	s.	T(sec)	A(mm)	Remarks:
29		iP	z	17	04	36			
		eP	e			36			
30		eP	z	17	45	18			
31	11	eP	zen	08	40	56			
32		iP	z	09	13	21		+	
		eP	e			21			
33	12	iP	e	09	57	34		+	
		iP	z			35		+	
		eP	n			35			
		eX	z	10	00	17			
34		iP	z	18	48	57	1	+1½	
		iP	e			57		-	
		eP	n			57			
		ipP	z		49	21	1¼	-3	
		eS	N		57	06			
35		eP	zen	18	55	39	✓		Near.
36		iP	z	19	21	27		-	
37	13	ePKP	Z	02	04	11			No short period records on 13.12.57.
		iSKP	Z		07	32	5	+3	
		eSKKS	N		13	17			

No.	Day	Phase		h.	m.	s.	T(sec)	A(mm)	Remarks:
		eX	N		15	08			
		eX	Z		16	15			
		eL	Z			53.0			
38	14	iP	z	12	33	25			
		eP	en			25			
39	15	eP	z	15	50	50			
40	16	iP	z	03	55	51			+
41		eP	z	08	50	34			
42		eP	zn	14	10	07			
43		iP	z	19	14	03			-
		eP	n			08			
44	17	eL	Z	06		19.0			
45		eiP	z	14	00	50			
		eiP	e			51			
		eiP	n			52			
		iP	e			54			+67
		iP	E			54			+14
		iP	z			55	1		+40
		iP	n			55	1		-34
		iP	Z			55	2½		+70

No.	Day	Phase		h.	m.	s.	T(sec)	A(mm)	Remarks:
		iP	N			55	1½	->100	
		ipP	Z		01	19	4	-30	
		iPP	Z		03	22	9	+15	
		iScP	n		05	07	2	-6	
		iS	e		09	35	4	+32	
		iS	E			35	8	+23	
		iS	n			36	4	+18	
		iS	N			36	5	+ 80	
		iS	Z			37	4½	+10	
		iScS	E		10	23	7½	+18	
		iScS	e			29	5	+24	
		iScS	Z			43	10	-10	
		eSS	N		14	14	15	20	
		eL	E		17.2				
		iPKPPKP	Z		29	27	7	+15	
46	18	iP	z		20	52	48		
		iP	e				52		
		eP	n				52		
		eX	z				58		
47		eX	z		22	09	10		
48	19	eP	ze		06	00	53	✓	
49		eP	z		23	01	20	✓	
50	20	eP	zen		01	24	06		Near.

No.	Day	Phase		h.	m.	s.	T(sec)	A(mm)	Remarks:
51		eP	z	11	29	35			
		eP	en			46			
52	21	iP	z	17	55	04		+	
53	22	iP	e	09	01	54			
		eP	n			54			
		eP	z			56			
54	25	eL	Z	17	22				
55		eP	zn	19	07	44			
56	26	iP	z	12	17	38	1	+2	
		eP	en			38			
		ipP	z			43	1	**-2**	
		ipP	e			44			
		iPcP	z		19	15	$\frac{3}{4}$	-3	
		iPcP	e			15		-	
		iX	z			18			
57	27	iP	z	07	24	17		-	
58		eP	zen	19	09.6				Near.
59		eP	zen	23	23	36			Near.
60	28	eP	z	14	48	58			

No.	Day	Phase		h.	m.	s.	T(sec)	A(mm)	Remarks:
61		iP	z	19	11	52		-	
		eP	ne			53			
		ipP	z		12	02			Direction of 1st movement lost in time mark.
62	29	iP	z	15	23	06		+	
63		eP	z	19	20	13			
	30								Records not available when bulletin prepared.
64	31	iP	z	14	34	53	1½	+2	
		eP	n			53			
		eP	e			58			
		epP	z		35	04	2½	4	
		ipP	Z			05	3	-3	
		iPcP	z		37	37	1	+2	
		iS	N		40	15	5	-18	
		iS	E			16	5	+2	
		eL	Z		43.5				Dispersion of surface waves.
65		eP	z	21	24	04			