



JAN 24 1960

CALIFORNIA INSTITUTE OF TECHNOLOGY
PASADENA, CALIFORNIA

**WILKES STATION, ANTARCTICA
BULLETIN**

1958 - 1959

WILKES STATION, ANTARCTICA

1958 - 1959



<u>Lat. S</u>	<u>Long. E</u>	<u>h</u>	<u>Ground</u>
66° 20'	110° 31'	10m	Gneiss with pegmatite intrusions

Wilkes Station was established as part of the International Geophysical Year Antarctic Program. It is situated about 100 m from the sea on a peninsula of complex metamorphic and intrusive rocks extending from beneath the continental ice cap. The station is about 3 km from the ice cap, which is virtually stagnant in this area.

Instrumentation consists of a Press-Ewing 3-component seismograph, which is described in Press, Ewing, Lehner, A Long Period Seismograph System, Trans. Amer. Geophys. Union, 39, 106-108, 1958. Pendulum period is 15 seconds and galvanometer period 90 seconds. Drum rate is 15 mm/min. The horizontal seismometers are aligned to measure N-S and E-W motion.

Timing is provided by a radio-chronometer relay system that is corrected once or twice daily by time signals from WWV (Washington) or JJY (Tokyo).

The station was installed April 17, 1957 and readings are reported through January 31, 1959. During this period times of prominent phases were radioed to the USCGS, Washington, D. C. Communications should be addressed to the Seismological Laboratory, 220 North San Rafael Avenue, Pasadena 2, California.

Components are indicated as N, E, Z.
c = compression, d = dilatation.
All times are G. C. T.

Wilkes Station, Antarctica No. 2 1958 January 26 - 1959 January 31

Date Phase h m s Date Phase h m s

January

April

26 eLE 03 57 00
USCGS: 54 1/2 S 133 W
03:35:17
Roxburgh: Magnitude 5.8
30 iPNZ 06 24 20
iSNZ 33 09
iSSZ 37 29
eLRZ 45 15
USCGS: 7 1/2 S 155 1/2 E
06:13:24
Moscow: 9 S 157 1/2 E
06:13:20
Pasadena: Magnitude 6 1/2

4 iSN 15 57 49
eSSN 16 05 00
eL 11 09
USCGS: 5 1/2 S 152 E
15:38:03
Moscow: Magnitude 5 1/2
5 eLN 14 42 07
7 ePKPN 15 50 29
eSKKSN 16 01 06
eSKSPN 04 06
eN 05 47
eLN 13 06
USCGS: 66 1/2 N 157 W
15:30:38
Moscow: 65 1/2 N 155 1/2 W
15:30:37
Pasadena, Moscow: Mag. 7
12 eLN 12 43 02
USCGS: 26 1/2 N 111 W
11:46:58
Pasadena: Magnitude 6 1/2
13 eLN 13 06 45
14 eSKSN 21 58 01
ePSN 22 01 44
iN 03 01
eLN 08 01
USCGS: 1 N 79 1/2 W
21:32:28
Moscow: 21:32:30
Pasadena: Magnitude 6 3/4 - 7
15 eN 02 07 25
eLN 27 59
15 eSSN 04 29 45
eLN 40 59
USCGS: 9 N 84 W
03:52:39
Pasadena: Magnitude 6 3/4
17 eLN 06 52 58
USCGS: 6 S 155 E
06:21:43
Matsushiro: Magnitude 5 1/4 - 5 1/2
eN 21 41 56

February

1 ePPZ 16 29 53
iSKKSE 37 40
eSPZ 39 34
eLE 45 55
eLRZ 17 04 38
USCGS: 2 N 79 W
16:10:15
Pasadena: Magnitude 6 3/4 - 7
1 eLRZ 18 58 08
USCGS: 2 N 79 W
18:02:39
Berkeley: Magnitude 6 1/2
1 eLRZ 21 40 38
USCGS: 1 1/2 N 79 W
20:45:45
Pasadena: Magnitude 6 3/4
3 eLE 19 00 08
4 eLRZ 02 46 08
USCGS: 6 S 131 1/2 E
02:16:00
5 eLE 21 17 09
BCIS: 36 S 101 W
20:44:44

12

13

14

15

15

17

20

May

1

14

15

17

18

March

6 eLN 10 39 25
8 i 10 32 48
20 ePSN 02 09 45
eSSN 16 48
eSSSN 21 20
eLN 31 18
USCGS: 51 N 173 W
01:38:04
Moscow: 01:38:02
Pasadena: Magnitude 6 1/2
22 eSN 10 34 32
eSSN 41 30
eLN 54 49
USCGS: 23 1/2 N 94 1/2 E
10:11:27
Moscow: 23 1/2 N 93 1/2 E
h = 100 km; 10:11:37
Quetta: 24 N 93 1/2 E
10:11:40
Matsushiro: Magnitude 6 1/2
27 eLN 10 41 15

April

4 eLN 07 49 39
USCGS: 5 1/2 S 152 E
07:16:55
Matsushiro: Magnitude 5 3/4

iPZ 00 39 54
ipPZ 40 26
iSZ 47 51
isS 49 04
iZ 49 51
eLRZ 53 51
USCGS: 13 1/2 S 167 1/2 E
00:29:15, 200 km
Moscow: 00:29:14, 160 km
Pasadena: Magnitude 6 1/4
eZ 04 32 44
USCGS: 4 1/2 S 153 E
03:58:09
Matsushiro: Magnitude 5 3/4
eLRZ 05 59 44
BCIS: 40 S 88 E
05:47:08
eLRZ 08 33 42
iPZ 02 43 34c
iSNZ 52 12

(continued)

International Seismological Centre

Wilkes Station, Antarctica

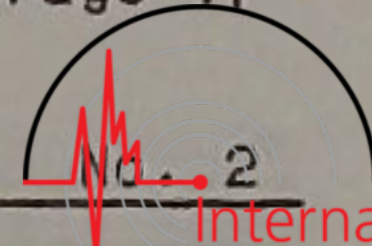
1958

Date	Phase	h	m	s
May	(continued)			
18	iSSNZ	02	56	13
	eLRZ		58	43
	USCGS: 13 S		167	E
	02:32:52			
	Berkeley: Magnitude 7			
18	ePZ	12	31	56
	iSN		40	37
	eSSZ		44	43
	eLN		48	13
	USCGS: 13 S		167	E
	12:21:18			
	Moscow: 12:21:16			
	Pasadena: Magnitude 6 - 6 $\frac{1}{4}$			
24	iPZ	07	34	34 ^c
	iSN		38	21
	eLN			39
	BCIS: 52 $\frac{1}{2}$ S		141	E
	07:29:04			
24	eLRZ	10	35	39
	BCIS: 4 S		15 $\frac{1}{2}$	E
	10:01:42			
25	iPSPZ	21	40	22
	eSSN		46	38
	eLRZ		54	38
	USCGS: 3 S		77	W
	21:11:45, 100 km			
	Moscow: 21:11:48			
	Pasadena: Magnitude 6 $\frac{1}{2}$			
31	iPNZ	19	43	02 ^c
	iSN		51	20
	eSSZ		55	41
	eLN		59	00
	eLRZ		62	00
	USCGS: 15 S		169	E
	19:32:30			
	Pasadena: Magnitude 7 $\frac{1}{2}$			
June				
3	iPZ	19	42	23
	iSZ		51	05
	iSSZ		55	10
	eLN		58	00
	eLRZ	20	00	30
	USCGS: 15 S		168	E
	19:31:52			
	Tacubaya: 19:31:40			
	Pasadena: Magnitude 6 $\frac{1}{2}$			
5	iN	10	57	45
6	ePPSN	09	43	54
	iSSN		48	44
	eLN	10	00	00
	USCGS: 8 N		84 $\frac{1}{2}$	W
	09:11:14			
	Moscow: 09:11:30			
	Pasadena: Magnitude 6 $\frac{1}{2}$ -6 $\frac{3}{4}$			
6	eSSN	19	52	21
	eLN	20	12	00
	USCGS: 5 $\frac{1}{2}$ N		82 $\frac{1}{2}$	W
	19:15:28			
	Tacubaya: 19:15:24			
	Pasadena: Magnitude 6			
7	iPZ	12	59	40
	iSN	13	03	19
	eLN		04	28

(continued)

Date	Phase	h	m	s
June	(continued)			
7	USCGS: 53 S		140	E
	12:55:01			
	Matsushiro: Magnitude 5 $\frac{1}{2}$ -5 $\frac{3}{4}$			
10	eLN	04	24	00
	USCGS: 30 $\frac{1}{2}$ S		177	W
	04:00:04			
10	eLRZ	07	54	00
	USCGS: 30 $\frac{1}{2}$ N		51 $\frac{1}{2}$	E
	07:04:02			
	BCIS: 30 $\frac{1}{2}$ N		51	E
	07:04:05			
	Moscow: Magnitude 5 $\frac{1}{4}$			
12	eZ	21	15	47
	eN		32	00
	USCGS: 53 N		167	W
	20:52:57			
	Pasadena: Magnitude 6 $\frac{1}{2}$			
15	eLRZ	12	02	56
	USCGS: 9 S		150	E
	11:32:38			
	Matsushiro: Magnitude 5 $\frac{1}{4}$ -5 $\frac{1}{2}$			
15	iPZ	15	04	32 ^d
	iPPZ		07	05
	iSN		12	36
	iSSSN		20	05
	USCGS: 18 S		178 $\frac{1}{2}$	W
	14:54:37, 600 km			
	Moscow: 14:54:35, 550 km			
	Pasadena: Magnitude 6 $\frac{1}{4}$			
15	eLN	17	47	26
	eLRZ		50	46
	USCGS: 9 $\frac{1}{2}$ S		150	E
	17:20:56			
	Matsushiro: Magnitude 5 $\frac{3}{4}$			
16	eLN	08	40	00
	eLRZ		43	00
	USCGS: 14 $\frac{1}{2}$ S		177 $\frac{1}{2}$	W
	08:13:07			
	Matsushiro: Magnitude 5 $\frac{3}{4}$			
18	eP	16	18	25
	eLRZ		22	25
	BCIS: 48 $\frac{1}{2}$ S		116 $\frac{1}{2}$	E
	16:14:25			
19	eSN	13	42	09
	eLRZ			38
	BCIS: 52 $\frac{1}{2}$ S		140	E
	13:33:42			
	Riverview: 13:33:35			
19	iPZ	18	06	55
	iSN		10	41
	eLN		11	55
	USCGS: 52 $\frac{1}{2}$ S		140	E
	18:02:15			
	Matsushiro: Magnitude 5 $\frac{3}{4}$ -6			
24	ePSN?	06	56	21
	eN	07	00	52
	eE		02	51
	eN		05	11
	BCIS: 47 S		80	W
	06:36:04			
25	iPZ	09	47	27
	eZ		55	35
	iSN		56	17

(continued)



Wilkes Station, Antarctica

1958

Date Phase h m s

Date Phase h m s

June (continued)

July

25 eLRZ 10 00 00
USCGS: 3 S 144½ E
09:36:30
Moscow: 09:36:42
Pasadena: Magnitude 6¼-6½

27 eLRZ 06 45 00
USCGS: 13 N 88½ W
05:44:28, 60 km
Pasadena: Magnitude 6

28 eLRZ 09 01 21
BCIS: 28 S 175 W
08:32:00
Matsushiro: Magnitude 5¾

28 eLRZ 12 06 21
BCIS: 14½ S 167½ E
11:35:35

28 eLRZ 20 13 51
USCGS: Nuclear explosion
12N 162 E
19:29:58
Matsushiro: Magnitude 5-5½

29 iPZ 19 25 49
ePSPZ 35 31
eLRZ 51 19
USCGS: 16½ S 172 W
09:14:37

30 eLRZ 07 02 20
30 eLRZ 09 45 50
USCGS: 36½ N 27½ E
08:42:33
BCIS: 08:42:41, 60 km

30 ePPZ 18 44 33
eSPZ 53 48
eLRZ 19 15 50
USCGS: 31 N 141½ E
18:26:20
Pasadena: Magnitude 6¾

July

1 eLN 06 44 48
USCGS: 51½ N 176½ W
05:53:07
Pasadena: Magnitude 6

3 iN 06 02 51
iN 09 02

3 eSN 10 39 40
eLN 43 55
eLRZ 47 46
USCGS: 55 S 126 W
10:23:02

4 eLRZ 02 49 46
4 iSN 13 15 16
eLN 17 46
USCGS: 250 mi. north
of Balleny Islands,
13:05:37

6 eLN 18 50 14
eLRZ 53 16

8 eLRZ 06 41 43
USCGS: 21½ S 174 W
06:06:28

8 eZ 19 32 46
eN 36 23

8 eLN 23 06 20
USCGS: 43 S 41½ E
22:48:36
Pasadena: Magnitude 6

9 eLRZ 01 28 43

10 iPKPZ 06 35 47
USCGS: 58.6 N 137.1 W
06:15:51
Pasadena: Magnitude 8

10 eLRZ 15 52 00
USCGS: 60 N 141 W
15:02:02

11 iZ 18 36 02
iN 39 32

11 eLN 19 55 43
USCGS: 21 S 69 W
19:10:20
Pasadena: Magnitude 6½

12 eLN 01 34 59
eLRZ 40 43
USCGS: 5 S 106½ W
00:48:30
Pasadena: Magnitude 6

12 eLRZ 13 45 43
eSN 13 16 32
eLRZ 29 43
USCGS: 29½ S 113 W
12:54:18
Berkeley: Magnitude 6

16 ePZ 17 05 09
eSN 13 46
eLRZ 25 43
USCGS: 12 S 166½ E
16:54:17

17 eLRZ 22 05 44
USCGS: 51 N 177½ W
20:59:17
Berkeley: Magnitude 6

18 eZ 01 22 41
eLR 40 41
USCGS: 51 N 176½ W
00:39:18
Berkeley: Magnitude 5¾

19 ePZ 06 40 46
iSNZ 49 13
eNZ 57 21
eLRZ 59 41
USCGS: 4 S 138½ E
06:30:19, 150 km

19 ePZ 18 27 46
iSN 36 41
eSSN 40 55
eLN 48 41
USCGS: 0 129½ E
18:16:52

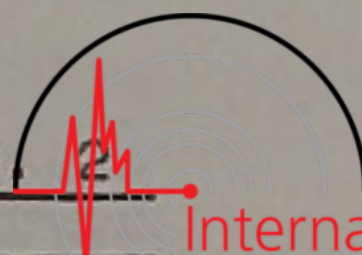
20 eLRZ 12 25 44

21 eSSN 15 16 42
eSSSN 21 52
eLN 35 42
USCGS: 51½ N 178 W
14:37:18
Berkeley: Magnitude 6¼

Wilkes Station, Antarctica

1958

No.

International
Seismological
Centre

Date	Phase	h	m	s	Date	Phase	h	m	s
<u>July</u>					<u>August</u>				
23	eZ	11	00	04	10	eLN	18	35	23
	eZ		07	21		eLRZ		40	23
	eLRZ		17	42		USCGS: 3½ S	151½	E	
	USCGS: 31 N	142	E			18:05:54			
	10:27:19				11	eLE	19	45	03
24	iSSSZ	13	52	21	12	ePZ	19	36	05
	eLRZ	14	14	42		iSNE		44	56
	USCGS: 52½ N	170	W			USCGS: 0	126½	E	
	13:08:05					19:25:05			
26	iNZ	06	27	40	12	eLRZ	23	44	23
	iNZ		30	57		USCGS: 6 S	152	E	
	eLR		33	11		23:12:17, 100 km			
	USCGS: 40 S	45½	E		13	ePZ	04	01	23
	06:13:50					eSZ		10	43
26	iPZ	17	49	57		eLRZ		21	13
	ipPZ		52	08		USCGS: ½ N	126	E	
	iZ		54	11		03:50:35			
	USCGS: 13½ S	69	W		13	eLRZ	08	29	03
	17:37:09, 650 km					USCGS: 36½ N	66½	E	
	Pasadena: Magnitude 7-7¼					07:33:29			
27	eSN	17	34	48	13	eLRZ	21	19	33
	eLN		38	51		USCGS: 51 N	177½	W	
	USCGS: 28½ S	62	E			20:13:00			
	17:19:03				14	eLRZ	10	19	02
29	eLRZ	11	17	36		USCGS: 23½ S	175½	W	
	USCGS: 20½ S	175½	W			09:45:14			
	10:49:27				14	ePPZ	15	16	48
30	iSN	05	04	32		ePKSZ		17	54
	eLN		12	22		eZ		25	42
	USCGS: 2½ S	140	E			eSKSPZ		26	42
	04:44:53					eZ		30	02
30	eLN	15	36	38		eE		31	48
	USCGS: 1800 mi. SW of					eLE		33	57
	Easter Island,					USCGS: 52 N	175	W	
	15:10:18					14:55:10			
<u>August</u>					15	Pasadena: Magnitude 6¼			
3	iSNE	01	23	33		eSZ	02	46	32
	iZ		23	53		eLRZ		59	32
	iScSN		24	47		USCGS: 6 S	150½	E	
	iN		26	53		02:26:51			
	eLN		31	18	15	ePKPZ	20	14	23
	USCGS: 21½ S	179	W			iPPNEZ		16	32
	01:06:24, 550 km					eNE		17	52
	Pasadena: Magnitude 6¼-6½					eLNE		24	56
4	ePZ	04	23	21		USCGS: 53 N	160½	E	
	iSNEZ		31	32		19:55:39, 60 km			
	iScSN		32	57		Pasadena: Magnitude 6¾			
	eZ		37	07	15	iPNE	22	40	02
	iSSSE		38	27		iSNE		48	44
	eLN		42	21		USCGS: 1½ N	125	E	
	USCGS: 6 S	130	E			22:29:17, 200 km			
	04:13:19, 150 km				16	Pasadena: Magnitude 6¾-7			
5	eLRZ	16	02	27		iNZ	11	32	23
6	iPZ	21	20	22		eN		33	50
	iSN		29	27		eLN		39	31
	eZ		34	09	16	eSPZ	13	49	36
	eLN		36	27		eSSZ		57	51
	USCGS: 17 S	173	W			eLRZ	14	18	31
	21:09:09					USCGS: 51½ N	176	W	
	Pasadena: Magnitude 6¾					13:17:52			
9	eLN	13	13	35	16	Pasadena: Magnitude 6-6¼			
	USCGS: 750 mi. NE of					ePPZ	19	33	01
	Sandwich Islands,					eSKSE		39	01
	12:47:55								

(continued)

Wilkes Station, Antarctica

1958

Date	Phase	h	m	s
August (continued)				
16	iPSNEZ	19	42	31
	eSSN		48	21
	eLN		59	31
	USCGS: 34½ N		48	E
	19:13:45			
17	eLRZ	02	34	30
17	eLRZ	10	09	30
	USCGS: 51½ N		176	W
	09:08:35			
17	ePZ	18	12	04
	iSNE		20	58
	iLNE		28	33
	USCGS: 3 S		145½	E
	18:01:05			
17	eLRZ	20	25	30
17	ePZ	21	20	03
	eSNE		27	12
	eLN		33	00
	USCGS: 35½ S		179½	W
	21:11:09			
17	ePZ	21	20	03
	eSNE		27	12
	eLN		33	00
	USCGS: 35½ S		179½	W
	21:11:09			
19	eLRZ	05	15	29
	USCGS: 19 S		175	E
	04:45:45			
19	iPZ	21	59	29d
	iSNE		22	08
	eN		16	45
	eLN		20	29
	USCGS: 1 S		149½	E
	21:48:07			
20	iPEZ	03	50	46
	iSNE		59	18
	eSSZEN	04	03	28
	eSSSE		06	28
	eLE		09	28
	USCGS: 14 S		167	E
	03:40:07			
	Pasadena: Magnitude 6¼-6½			
20	eLRZ	18	06	58
	USCGS: 19 S		170	E
	17:39:38			
21	ePZ	01	19	28
	eLE		39	28
	USCGS: 24 S		176	W
	01:09:00			
21	iPZ	21	09	42
	iSN		18	19
	eLN		26	08
	USCGS: 18 S		176	W
	20:59:10, 250 km			
21	eLRZ	04	37	28
	USCGS: 04:03:26			
	24 S 176 W			
22	iPZ	00	05	27
	eSN		08	50
	eLRZ		09	27
	USCGS: 49½ S		117	E
	00:01:21			
23	eLRZ	16	24	57
24	eLRZ	05	08	24

Date	Phase	h	m	s
August				
26	eSN	12	39	51
	eLN		50	47
	USCGS: 14 S		167	E
	12:20:43			
26	eSN	18	14	44
	eLN		21	54
	eLRZ		25	24
	USCGS: 14 S		167	E
	17:55:34			
26	ePZ	23	42	15
	eSNZ		50	47
	eLRZ		55	54
	USCGS: 14 S		167	E
	23:31:38			
28	eLRZ	10	19	52
29	iSNE	12	43	34
	eSSE		47	42
	USCGS: 14½ S		167	E
	12:24:23			
	Pasadena: Magnitude 5¾-6			
30	eLRZ	19	44	09
	USCGS: 27½ N		112	W
	18:38:18			
September				
3	eLN	04	27	22
	USCGS: 0		18	W
	03:24:24			
4	eN	17	31	24
	eZ		34	24
4	i(P)Z	22	03	29
	i(S)N		13	33
	eLN		17	24
5	eLRZ	13	30	21
	USCGS: 5 S		102	E
	13:01:55			
7	eLRZ	05	14	19
7	eZ	12	03	49
8	eLRZ	06	26	19
	USCGS: 53½ N		159	E
	05:25:37			
10	eLRZ	17	00	48
11	ePZ	18	13	27
	eSN		18	22
	USCGS: 7½ N		126½	E
	18:01:44			
12	eLRZ	05	49	48
	USCGS: 41 S		78½	E
	05:37:46			
14	eLRZ	15	22	46
	USCGS: 57 N		121	E
	14:21:37			
	Pasadena: Magnitude 6¼-6½			
14	eLRZ	22	02	46
	USCGS: 7 S		68	E
	21:31:55			
15	iPZ	19	55	49c
	ipPZ		57	57
	iSNEZ		20	04
	eN		09	15
	USCGS: 2½ N		120½	E
	19:45:40, 600 km			
	Pasadena: Magnitude 6-6½			
17	eLRZ	15	27	15



Wilkes Station, Antarctica

1958

Date Phase h m s

Date Phase h m s

October

November

25 eLRZ 07 03 37
USCGS: 22½ S 11 W
06:25:04

26 eLN 02 52 06
USCGS: 5½ N 117 E
02:17:32

26 eLN 13 03 07

27 eLN 16 21 06

28 eSSZ 04 30 27
USCGS: 62½ S 157 W
04:14:55

28 eN 07 13 52

28 ePZ 11 00 15
eSN 11 38
ePSNZ 12 36
eLRZ 32 06
USCGS: 30½ N 85 E
10:46:27

29 eLRZ 00 53 06

29 eZ 06 09 10

29 ePKPZ 08 03 24
ePPZ 05 31
eSSN 22 34
eSSSN 27 06
USCGS: 51½ N 179½ E
07:44:10
Pasadena: Magnitude 6¼

30 eLRZ 08 30 06

31 ePSN 19 22 55
eZ 27 46
eE 30 51
eLRZ 36 06
USCGS: 3½ S 143½ E
19:02:54

November

1 IPZ 03 49 56
iSNE 58 46
USCGS: 3 S 150 E
03:38:35
Pasadena: Magnitude 6¼-6½

1 iPZ 12 27 06
iSNE 35 06
eSSN 39 06
eLN 41 51
USCGS: 17½ S 168 E
12:16:36
Pasadena: Magnitude 6-6½

1 eN 16 08 50
USCGS: 17½ S 168 E
15:50:10

3 eLRZ 04 27 05
USCGS: 31 S 177½ W
04:00:30

4 eLRZ 20 26 34
USCGS: 11 S 166 E
19:55:11

4 iNEZ 23 13 02
iE 17 04
eLN 19 04

5 eLRZ 04 59 04
USCGS: 17 S 168 E
04:27:50

6 eLRZ 10 35 03

6 eLRZ 16 01 33

6 iNEZ 23 13 00
iPKPN 17 35
USCGS: 44½ N 148½ E
22:58:06, 60 km
Pasadena: Magnitude 8-8½

7 eLRZ 20 56 03

8 eLRZ 10 24 33
USCGS: 52 N 159½ E
09:22:53

10 eLRZ 07 48 02
USCGS: Pacific Ocean
foreshock,
06:58:00

10 eLRZ 12 01 32
USCGS: 9 S 110 W
11:13:05

11 eLRZ 20 18 02

12 eZN 03 56 09

12 ePPSN 10 59 22
eLRZ 11 07 32
USCGS: 7 S 156 E
10:39:47, 100 km

12 eNZ 20 38 17
iPPNEZ 43 04
USCGS: 49½ N 148½ E
20:23:26
Pasadena: Magnitude 6¾-7

13 eLRZ 09 01 01
USCGS: 15 S 167½ E
08:31:40

13 eLRZ 16 52 01
USCGS: 9 N 93½ E
16:16:25

14 eLRZ 00 03 01

14 ePZ 05 16 08
eSE 25 47
eLRZ 36 01
USCGS: 36 S 102 W
05:04:25

14 ePZ 13 58 36
ePPPZ 14 02 38
iSNE 06 59
USCGS: 6 S 131 E
13:48:20

15 eZ 09 30 10
USCGS: 44 N 149 E
09:00:45
Pasadena: Magnitude 6½-6¾

16 ePZ 17 56 07
iSNE 18 05 21
USCGS: 16 S 172 W
17:44:48
Pasadena: Magnitude 6¼

17 ePZ 09 57 17
eSNZ 10 06 03
USCGS: 10½ S 162½ E
09:46:30

17 eLN 22 10 12

18 eLRZ 08 48 19
USCGS: 50½ N 179 E
07:45:20

19 eLRZ 10 17 03
USCGS: 44 N 149 E
09:23:51, 60 km

Wilkes Station, Antarctica

1958

No. 2

International
Seismological
Centre

Date	Phase	h	m	s	Date	Phase	h	m	s
November					December				
20	eLRZ	06	25	03	9	eLRZ	12	48	01
	USCGS: 52 N		159½	E		USCGS: 14½ S		167	E
	05:36:33					12:17:47			
22	iSNZ	00	21	36	10	iPZ	07	11	09c
	eLRZ		30	04		ipPZ		12	06
	USCGS: 10½ S		112½	E		iSN		17	36
	00:04:20					isSN		19	20
24	iPZ	06	58	40c		USCGS: 37 S		176½	E
	ePPZ	07	02	04		07:02:59, 300 km			
	eSSSE		12	34		Pasadena: Magnitude 6¾			
	eLN		16	04	13	eLN	09	31	01
	USCGS: 57½ S		65½	W		USCGS: 4½ S		153½	E
	06:48:57					09:05:55			
25	eLRZ	13	40	05	14	eN	07	38	47
	USCGS: 16½ S		173	W		eLN		44	01
	13:14:10					eLRZ		48	01
26	eLRZ	00	43	04		USCGS: 35 S		168½	W
	USCGS: 10½ S		112½	E		07:11:28			
	00:17:09					Pasadena: Magnitude 6			
26	eLRZ	21	47	36	16	eLRZ	10	36	01
27	eNZ	06	51	51	17	eLRZ	03	33	01
	eLN		54	04		USCGS: 55 N		162	W
27	ePZ	13	47	27		02:25:55			
	eSNE		51	45	17	iPZ	20	44	43c
	eLRZ		55	04		eSN		54	11
	USCGS: 300 mi. NE of					eLRZ		21	08
	Balleny Islands,					USCGS: 4½ S		153½	E
	13:41:47					20:33:58			
28	eNZ	15	13	13	18	eLRZ	07	46	01
	eZ		17	04		USCGS: 11 S		117½	E
	eN		27	34		07:18:05			
	eLRZ		30	13	18	eLRZ	09	12	31
30	eSN	01	57	12	18	eLRZ	20	00	01
	eSSNEZ	02	05	14		USCGS: 16 S		173	W
	eLRZ		23	03		19:23:53			
	USCGS: 32 N		137½	E	19	eLRZ	10	21	31
	01:32:41				19	eLRZ	19	37	01
	Pasadena: Magnitude 6					USCGS: 51½ N		177½	W
December						18:36:23			
1	eLRZ	01	43	02	20	eLRZ	00	36	02
2	eLRZ	07	45	02	20	eLRZ	20	06	02
3	iPZ	10	01	08c		USCGS: 28½ N		127½	E
	ePPZ		04	30		19:20:43			
	iSN		11	44	21	ePPZ	06	06	25
	eSSZ		17	11		ePSNZ		15	11
	USCGS: 19 N		121½	E		eLRZ		38	42
	09:48:26					USCGS: 44½ N		81	E
4	eLRZ	11	09	01		05:46:26			
4	eLRZ	20	19	01	22	eLRZ	02	51	02
	USCGS: 11½ N		86½	W		USCGS: 6 S		155	E
	19:19:23, 100 km					02:17:14			
5	eLRZ	04	44	01	22	eLRZ	19	46	42
6	eLRZ	10	33	00	23	eLRZ	07	27	31
	USCGS: 6½ N		83	W		USCGS: 2 N		79	W
	09:33:45					06:27:15			
	Pasadena: Magnitude 6-6¼				24	eLRZ	01	48	01
7	eLRZ	06	57	31		USCGS: 6½ S		150½	E
	USCGS: Bismarck Sea					01:13:17, 100 km			
	06:21:46				24	eLRZ	20	35	20
9	eLRZ	01	30	31		USCGS: 18 S		169	E
9	eLRZ	03	09	31		20:35:20			
9	eLRZ	08	29	01	25	ePNE	08	16	35
	USCGS: 8 S		118	E		iSNE		25	16
	08:00:30					(continued)			

Wilkes Station, Antarctica

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Date	Phase	h	m	s
December (continued)				
25	eLN	08	32	31
	USCGS:	5½ S	151½ E	
		08:05:33		
26	eLRZ	22	48	01
28	eZ	06	01	06
	eZ		13	06
	eLRZ		22	01
30	eLN	08	08	00
31	eLRZ	04	39	01
	USCGS:	Southern Sinkiang Province, China		
		03:45:55		
January - 1959				
1	eSE	07	46	01
	eLRZ		56	31
	USCGS:	19 S	176 W	
		07:26:12		
3	eLRZ	12	08	01
	USCGS:	14½ S	75½ W	
		11:17:38		
4	eLN	03	46	00
	USCGS:	10 S	111½ E	
		03:16:36		
4	eLN	04	41	00
	USCGS:	Western Afghanistan		
		03:59:44		
5	ePZ	09	56	40
	iSZ	10	04	36
	eLRZ		09	00
	USCGS:	22 S	171½ E	
		09:46:42		
6	eLRZ	05	59	30
6	eLRZ	12	28	00
	USCGS:	6½ S	155 E	
		11:53:39, 150 km		
6	eLRZ	15	15	00
	USCGS:	7½ S	105½ E	
		14:48:03		
7	eN	05	54	00
	USCGS:	29 N	55 E	
		05:13:18		
13	ePZ	01	27	58
	iSNE		38	23
	eLRZ		56	58
	USCGS:	13½ N	146 E	
		01:15:25		
	Pasadena:	Magnitude 6¾		
13	eLRZ	09	34	58
	USCGS:	9 N	83½ W	
		08:34:08, 100 km		
14	eLN	11	18	28
15	iPZ	21	29	38
	iSN		37	00
	iPSN		38	40
	iN		39	55
	eLN		44	28
	USCGS:	25½ S	180	
		21:20:26, 500 km		
	Pasadena:	Magnitude 6½		
16	eLN	02	36	59
	USCGS:	52½ N	171 W	
		01:31:22		
18	eLN	15	14	29
	USCGS:	5 S	152½ E	
		14:41:06		

Date	Phase	h	m	s
January				
18	eLN	20	00	59
	USCGS:	5 S	152½ E	
		19:25:45		
18	iSN	22	41	19
	USCGS:	19 S	178 W	
		22:23:15, 450 km		
	Pasadena:	Magnitude 6½		
19	eNZ	09	50	59
	eLRZ		59	59
20	eLN	17	04	16
	eLRZ		08	29
	USCGS:	9 S	126 E	
		16:46:11		
21	eLRZ	14	41	00
22	eSN	05	25	48
	eLN		30	08
	USCGS:	34 N	142 E	
		05:10:25		
	Pasadena:	Magnitude 6¾		
22	eLRZ	17	27	00
23	eLRZ	03	02	00
23	eLRZ	08	29	00
24	eLRZ	20	44	01
	USCGS:	15 N	92½ W	
		19:42:20		
	Pasadena:	Magnitude 6½		
25	eLRZ	16	38	01
27	eLRZ	20	39	01
28	iPZ	10	16	38
	iSN		26	58
	eSSN		32	34
	USCGS:	30½ S	79 W	
		10:04:10		
	Pasadena:	Magnitude 6½		
29	eLRZ	21	28	02
	USCGS:	52 N	174 W	
		20:21:27		
	Pasadena:	Magnitude 5¾-6		
30	eSN	00	38	46
	eLRZ		51	02
	USCGS:	10 S	161 E	
		00:19:25		
	Pasadena:	Magnitude 6¾		
30	iN	08	07	42
30	eLN	17	03	02
	USCGS:	26½ S	71 W	
		16:15:58, 100 km		
30	iPZ	18	18	22
	iSN		25	17
	eLRZ		32	02
	USCGS:	31 S	179 W	
		18:09:02		
30	eLR	21	31	02
	USCGS:	44 N	144 E	
		20:38:58		
	Pasadena:	Magnitude 5¾-6		
31	eN	10	03	54

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October 30, 1959