

3 NOV 1969



SEISMOLOGICAL BULLETIN

THE UNIVERSITY OF ADELAIDE

DEPARTMENT OF PHYSICS

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATIONADELAIDE (MOUNT BONYTHON)

Latitude: $34^{\circ} 58' 01''$
Longitude: $138^{\circ} 42' 32''$
Height above mean sea level: 2150 ft., 655.3 metres
Foundation Sandstone

Instruments: World-wide Standard seismograph system

Benioff short period seismometers

$T_0 = 1.0$ secs. $T_g = 0.75$ secs.

Sprengnether long period seismometers

$T_0 = 30$ secs. $T_g = 100$ secs.

Nominal magnifications : S.P. 25,000

L.P. 750

SEISMOLOGICAL BULLETIN

JANUARY - MARCH 1969

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION
BULLETIN FOR JANUARY 1969

<u>Date</u>	<u>Phase</u>	<u>Time</u>	Δ°	$\left(\frac{h}{\text{kms}}\right)$	<u>Mag.</u>	<u>Epicentre</u>
1	eP	NEZ 06 59 13	26.7	33		60.5S 150.6E
1	iP	NEZ 09 32 33.6 U	40.1	33	5.3	16.2S 178.4E
1	iP	NEZ 17 42 10.0 D	36.3	657	4.4	24.9S 179.2E
1	eP	NEZ 18 55 00	47.3	33	5.2	11.2N 126.5E
1	iP	NEZ 23 58 37.0 U	41	33	5.1	4.3N 125.5E
2	iP	NEZ 15 54 01.0 U	35.2	635	4.7	12.9S 169.1E
2	iP	NEZ 18 03 33.0 D	88.6	81	5.9	56.0S 27.5W
3	eP	NEZ 19 17 58.5	42.5	33	5.2	6.3S 104.6E
3	iP	NEZ 23 42 05.6 D	30.5	527	5.1	6.9S 125.3E
4	iP	NEZ 22 42 41.5 U	29.2	107	5.7	6.8S 129.8E
	e	NEZ 48 21				
5	iP	NEZ 01 40 12.8 D	37.7	33	5.3	1.1N 125.9E
5	iP	NEZ 07 36 33.0 U	40.7	59	5.3	4.1N 125.6E
5	iP	NEZ 13 33 09.0 U	32.6	47	6.4	8.0S 158.9E
	iS	NEZ 38 16				
5	iP	NEZ 16 21 48.6 U	38.1	33	5.4	1.6N 126.6E
5	iP	NEZ 16 56 46.5 D	29.4	27	5.6	8.9S 123.5E
	e	NEZ 17 02 26				
6	eP	NEZ 01 11 23	32.5	33	4.8	8.2S 159.0E
6	eP	NEZ 02 41 26				
6	eP	NEZ 12 35 38	37.3	586	4.5	22.5S 179.2E
6	iP	NEZ 15 37 24.0 U	36.5	137	5.2	30.2S 178.0W
	i	Z 39 45				
6	iP	NEZ 15 45 41.5 D	33.9	32	6.8	10.5S 164.5E
	eS	NEZ 51 08				
6	eP	NEZ 16 49 12	33.6	33	4.8	10.7S 164.5E
6	eP	NEZ 17 12 55	33.6	33	5.0	10.9S 164.4E
6	eP	NEZ 17 32 08	31.8	33		3.1S 139.5E
6	iP	NEZ 17 40 20 U	33.6	33	5.4	10.7S 164.4E
6	eP	NEZ 20 57 13	36.5	189	4.5	30.2S 178.2W
6	eP	NEZ 21 06 30	33.6	33	4.7	10.6S 164.4E
7	iP	NEZ 01 20 11.0 D	29.4	97	5.3	6.2S 146.4E
7	eP	NEZ 04 46 45	32	45	4.7	16.0S 167.5E
7	eP	NEZ 05 12 21				
7	iP	NEZ 07 12 06.9 U	61.4	61	5.3	26.1N 129.5E
7	iP	NEZ 09 02 07.9 D				

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BULLETIN FOR JANUARY 1969

Date	Phase		Time	Δ°	h (kms)	Mag.	Epicentre	
7	iP	NEZ	17 53 26.8	D 33.6	29	5.3	10.8S	164.4E
8	iP	NEZ	14 02 56.0	U 32.9	74	4.9	3.6S	127.8E
8	iP	NEZ	22 24 12.7					
	iS	NEZ	24 27.5					
	iS	NEZ	24 29.0					
9	iP	NEZ	11 55 27.6	D 39.4	619	4.5	18.8S	179.4E
9	eP	Z	13 48 59	29.5	66	5.0	6.6S	148.0E
9	iP	NEZ	18 59 16.0	U 35.5	550	5.0	25.2S	178.4E
10	eP	NEZ	14 20 32	24.7	33		58.8S	148.9E
10	eP	NEZ	17 16 30	33.6	33	5.3	10.7S	164.4E
11	iP	NEZ	04 33 41.3	D 38.1	68	5.4	28.4S	177.0W
11	iP	NEZ	04 54 57.5	D 38.1	68	5.1	28.5S	176.8W
11	eP	NEZ	05 10 09	38.1	76	5.2	28.5S	176.7W
11	iP	NEZ	06 34 31.0	D 41.4	529	4.6	17.7S	178.8W
12	eP	NEZ	04 15 44	37.4	697	4.2	23.3S	179.6E
13	eP	NEZ	01 20 08					
13	eP	NEZ	03 00 28	36.6	33	4.6	30.5S	177.8W
13	iP	NEZ	09 01 33.1	D 32.6	48	5.7	8.0S	158.9E
16	iP	NEZ	11 14 14.0	D 40.7	45	5.1	23.6S	176.1W
17	eP	NEZ	21 07 51	45.2	41	5.1	8.3N	124.1E
18	iP	NEZ	03 15 14.0	U 87.7	141	5.9	56.8S	26.8W
	iPP	NEZ	18 39.2					
18	eP	NEZ	03 57 02	36.7	33	5.3	3.0S	118.9E
19	iP	NEZ	07 13 51.0	D 79.6	204	6.4	45.0N	143.2E
	i	NEZ	14 50					
	iS	NEZ	23 56					
19	eP	NEZ	07 33 25	38.5	39	5.6	1.9N	126.7E
19	iP	NEZ	17 26 34.6	U 38.1	86	5.1	1.7N	127.1E
19	iP	NEZ	18 09 54.0					
	iS	NEZ	10 19.0					
19	iP	NEZ	18 57 15.0	U 32.5	112	6.2	14.9S	167.2E
	i	NEZ	19 03 32.5					
20	eP	NEZ	04 52 53	34.1	33	5.0	10.2S	164.5E
20	iP	NEZ	12 31 24.0	U 34.1	4	5.6	10.3S	164.6E
	eS	NEZ	36 52					
20	eP	NEZ	16 28 22	29	125		7.4S	128.3E
20	iP	NEZ	18 56 15.9	U				

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<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h (kms)</u>	<u>Mag.</u>	<u>Epicentre</u>			
21	eP	NEZ	29.1	91	5.6	7.3S	128.3E		
	i	NEZ							
	eS	NEZ							
21	eP	NEZ	29.3	16	5.5	8.8S	124.1E		
23	eP	NEZ	41.27.5		Local				
	iS	NEZ							
23	eP	NEZ	18 40 07						
24	iP	NEZ	38.6	595	5.9	21.9S	179.6W		
	iPP	NEZ							
	iS	NEZ							
24	iP	NEZ	03 59 22.7	D					
24	eP	NEZ	45.31.0		Local				
	i	NEZ							
	i	NEZ							
25	iP	NEZ	05 26 31.2	U	37.7	24	5.7	0.8N	126.1E
25	eP	NEZ	11.32.1		Local				
	eS	NEZ							
25	eP	NEZ	23 57 16	19.8	33	54.4S	143.8E		
26	iP	NEZ	05 05 08.7	U	32.2	75	5.2	10.2S	161.5E
26	iP	NEZ	06 14 00.0	D	42.7	50	5.4	6.6N	127.4E
26	iP	NEZ	12 38 40.0	D	31.3	554	5.0	6.1S	125.1E
26	iP	NEZ	15 50 03.0	D	61.5	146	5.1	25.1N	122.6E
26	eP	NEZ	16 46 06	38.5	87	5.1	1.9N	126.5E	
26	eP	NEZ	16 49 11.6		Local				
	eS	NEZ							
27	eP	NEZ	03 01 50	37.1	33	5.0	30.6S	177.2W	
27	eP	NEZ	03 16 28	37.1	24	5.0	30.6S	177.2W	
27	iP	NEZ	10 07 32.0	U	34.9	300	4.9	30.9S	179.7W
27	eP	NEZ	12 25 02						
27	iP	NEZ	13 23 31.0	D	43.5	5	5.5	8.8N	137.7E
27	iP	NEZ	14 49 10.0	D	52.6	33	5.3	12.5N	114.4E
27	iP	NEZ	18 30 52.0	D	33.4	130	5.1	13.2S	166.9E
27	eP	NEZ	18 03		Local				
	eS	NEZ							
29	eP	NEZ	08 41 22	33	70	4.6	4.7S	153.2E	
29	iP	NEZ	12 54 59.8	D					
29	iP	NEZ	13 42 45.0	D	41.5	455	4.3	18.8S	178.1W
29	eP	NEZ	15 04 14		Local				
	eP	NEZ							
	eS	NEZ							

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<u>Date</u>	<u>Phase</u>		<u>Time</u>	Δ°	<u>h</u> (kms)	<u>Mag.</u>	<u>Epicentre</u>	
29	iP	NEZ	17 53 04.5 D	47.6	33	6.0	17.2S	171.6W
29	iP	NEZ	19 37 01.6 U	34.4	153	5.0	11.4S	166.4E
29	eP	NEZ	22 46 02					
	eS	NEZ	46 20					
					Local			
30	eP	NEZ	02 41 08	40.5	68	5.5	4.1N	126.4E
30	eP	NEZ	05 35 49					
30	iP	NEZ	10 37 19.0 U	41.1	70	5.9	4.8N	127.4E
	eS	NEZ	43 53					
30	iP	NEZ	12 46 04.4 D	40.8	65	5.1	4.7N	127.7E
30	eP	NEZ	15 09 42					
30	eP	NEZ	16 47 40	41.2	83	5.0	5.0N	127.1E
30	iP	NEZ	17 27 13.5 D	41.1	72	5.3	4.9N	127.5E
	i	NEZ	32 06					
	i	NEZ	32 44					
30	iP	NEZ	18 43 40.0	41.5	521	5.3	4.0N	123.0E
30	eP	NEZ	22 19 23	40.8	33		4.5N	127.4E
31	iP	NEZ	00 51 48.5 U	40.3	33	5.7	4.2N	128.1E
	eS	NEZ	57 50					
31	iP	NEZ	04 37 12.4 D					
31	iP	NEZ	09 04 18.6 D	40.3	33	5.4	4.3N	128.1E
31	eP	NEZ	09 47 00					
	iP	NEZ	47 02.0					
	iS	NEZ	47 29.0					
					Local			
31	eP	NEZ	11 29 03	40.3	33		4.2N	128.1E
31	eP	NEZ	13 56 05.5	40.3	33	5.4	4.3N	128.1E
31	eP	NEZ	14 00 32	40.4	33	5.2	4.3N	128.3E
31	iP	NEZ	15 07 31.1 U	45.6	262	5.4	15.5S	175.0W
31	eP	NEZ	17 24 05	41	33		4.9N	127.7E
31	eP	NEZ	20 14 59	40.9	65	5.2	4.7N	127.4E
31	eP	NEZ	20 45 29	40.4	33	5.3	4.4N	128.1E
31	iP	NEZ	23 37 28.5 D	33.8	391	5.2	32.1S	179.6E
	i	EZ	39 54					

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<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h</u> (kms)	<u>Mag.</u>	<u>Epicentre</u>
1	eP NEZ	07 32 11	40	33	5.0	4.1N 128.0E
1	eP NEZ	07 49 42	45.4	33	5.5	9.2N 126.4E
1	eP NEZ	16 26 47	40	33	5.2	4.0N 128.1E
2	eP NEZ	00 25 03	40	33	5.2	3.9N 128.1E
2	eP NEZ iS NEZ	01 44 16 45 03				Local
2	iP NEZ	01 46 18.0 D	39.8	33	5.4	3.9N 128.2E
2	iP NEZ	02 14 34.2	40	33	5.3	4.0N 128.3E
2	eP NEZ	02 41 45	40	33	5.2	4.1N 128.3E
2	eP NEZ	03 16 35	40.3	33		4.5N 129.2E
2	eP NEZ	04 07 40	40	33		4.0N 128.1E
2	iP NEZ	05 28 58.8 D	39.8	33	5.5	3.9N 128.3E
2	eP NEZ	16 28 46.6	39.8	33	5.3	3.8N 128.4E
2	eP NEZ	16 56 22	39.4	93	5.1	3.4N 128.3E
2	iP NEZ	20 04 39.0 D	66	33	5.2	17.2S 66.5E
2	eP NEZ	20 44 41	39.9	67	4.6	3.9N 128.0E
2	eP NEZ	20 57 59	40.4	33	5.2	4.3N 128.2E
3	iP NEZ iPP NEZ iS NEZ i NEZ	07 57 29.2 D 59 16 08 02 19.2 05 36	35.2	629	5.3	25.8S 178.1E
3	iP NEZ	08 19 49.0 U	35.2	610	4.9	25.6S 178.1E
3	iP NEZ iS NEZ	08 24 19.1 D 29 06	35.2	654	5.3	25.7S 178.3E
3	iP NEZ	09 55 30.4 U	56.4	57	4.5	19.2N 121.2E
3	iP NEZ	10 57 48.5 D				
3	eP NEZ	17 19 29	40.2	33	5.4	4.3N 128.5E
3	eP NEZ	19 09 08	40.4	33	5.2	4.4N 128.1E
3	iP NEZ	21 49 23.5 U	41.2	33	6.1	4.9N 127.4E
4	eP NEZ iS N	01 45 40 51 36	37.7	33	4.8	0.6S 121.7E
4	ePKP NEZ	04 29 13	123.5	16	6.0	8.2S 80.2W
4	iP NEZ	11 35 30.8 U	40.3	623	5.0	19.8S 178.9W
4	eP NEZ	17 05 48				
5	eP NEZ	01 41 32	39.7	88		3.7N 128.3E
5	eP NEZ	10 43 53	39.7	35	5.2	3.8N 128.6E
5	eP NEZ	20 06 38	45.4	63	4.9	8.3N 123.4E

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<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h (kms)</u>	<u>Mag.</u>	<u>Epicentre</u>	
7	iP NEZ	05 01 24.0 U	37.8	36	4.9	0.7N	125.8E
7	iP NEZ	06 23 03.3 D	37.8	41	5.1	0.7N	125.7E
9	eP NEZ	18 19 15	30	33		5.2S	133.7E
10	iP NEZ	08 06 03.0 D	32.8	141	4.6	14.9S	167.5E
10	iP NEZ	14 16 45.6 U	39.8	78	5.0	3.7N	128.2E
10	iP NEZ	14 27 20.6 U	39.5	57	5.1	2.7N	125.3E
10	iP NEZ	23 04 22.0 U	36.7	673	6.0	22.7S	178.6E
	i	06 08					
	i	07 24					
	i	08 36					
10	iP NEZ	23 30 06.0 U					
	e	35 23					
11	eP NEZ	13 35 58	32.3	83	5.3	8.3S	118.8E
11	eP NEZ	14 34 09					
11	iP NEZ	22 21 46.0 U	30.2	450	6.0	6.7S	126.8E
	iPP	23 06.0					
	iS	26 12					
13	iP NZ	02 49 52.0 D	40	15	5.3	7.4S	107.0E
13	eP NZ	08 56 52	39.8	33		3.7N	128.0E
13	iP NZ	10 10 05.8 D	36.6	23	4.9	30.1S	178.0W
13	eP NZ	10 30 17	41.2	33	4.9	5.0N	126.9E
13	eP NZ	21 40 58					
14	eP NZ	05 01 16	40.8	98		4.6N	127.5E
14	eP NZ	06 21 42	35.7	33	5.0	0.8S	126.7E
14	iP NZ	06 23 35.0 D	48.6	33	5.3	17.8S	87.3E
15	iP NZ	06 27 34.0 D	41.3	610	4.6	17.8S	178.9W
15	eP NZ	06 58 13	42.3	160	4.6	20.5S	176.0W
15	iP NZ	08 50 01.3 D	37.3	550	5.0	24.1S	180.0W
15	eP NZ	10 27 39					
15	iP NZ	13 26 34.5 U	31.9	127	4.8	10.4S	161.2E
15	iP NZ	13 55 34.0 U	33.4	205	5.3	13.6S	167.2E
16	eP NZ	06 59 55					
16	iP NZ	15 19 42.0 D	65.7	33	5.1	16.9S	67.0E
16	eP NZ	15 27 31	37.6	33	4.6	10.0S	107.8E
17	eP NZ	00 50 32	39.8	14	5.6	3.8N	128.4E
	iP NZ	50 33.4					
17	eP NZ	01 23 21	39.8	88	5.4	3.9N	128.6E

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<u>Date</u>	<u>Phase</u>		<u>Time</u>	<u>Δ°</u>	<u>($\frac{h}{kms}$)</u>	<u>Mag.</u>	<u>Epicentre</u>	
17	eP	NZ	01 33 37	39.6	33	5.1	3.8N	129.1E
17	iP	NZ	01 46 04.0 D	39.7	33	5.3	3.6N	128.1E
17	eP	NZ	02 08 02	39.9	79	5.1	3.9N	128.6E
17	eP	NZ	02 42 55	39.6	33	4.9	3.7N	128.9E
17	eP	NZ	03 11 42	39.9	54	5.0	3.9N	128.4E
17	eP	NZ	04 12 43	39.4	33		3.3N	128.0E
17	eP	NZ	06 34 52	39.3	72	4.7	3.4N	128.6E
17	eP	NZ	06 47 39	39.4	97	4.8	3.4N	128.0E
17	eP	NZ	09 07 05					
	iS	NZ	08 03.5					
	eS	NZ	08 21			Local		
	eS	NZ	08 35					
17	eP	NZ	15 03 44					
17	iP	NZ	19 10 16.4 U	39.4	55	5.2	3.4N	128.0E
17	eP	NZ	20 21 43	41.6	72	4.5	5.5N	127.6E
18	iP	NEZ	05 22 21.0 U	40.1	99	5.4	24.0S	176.7W
18	iP	NEZ	20 50 13.6 D	41.5	569	5.2	17.9S	178.6W
18	eP	NEZ	21 14 46	72	160	5.0	24.5N	95.4E
19	iP	NEZ	03 33 50.3 D	41.3	630	4.4	18.0S	178.8W
19	eP	NEZ	08 48 35	60.6	61	5.1	23.9N	122.2E
20	eP	NEZ	07 48 02					
20	iP	NEZ	10 03 03.5 U	39.7	33	5.7	3.5N	128.2E
	i	NEZ	09 08					
	i	NEZ	09 28					
20	eP	NEZ	10 36 23					
20	iP	NEZ	10 37 46.0 D	39.7	77	6.0	3.5N	128.4E
20	eP	NEZ	11 00 51	39.6	33	5.1	3.5N	128.0E
20	eP	NEZ	11 11 34	39.6	73	4.9	3.5N	128.1E
20	eP	NEZ	11 27 42					
20	iP	NEZ	12 22 06.5 D	39.7	70	5.3	3.6N	127.9E
20	eP	NEZ	12 38 12	39.6	79	5.0	3.5N	128.2E
20	eP	NEZ	12 58 46					
20	iP	NEZ	13 02 56.5 U	39.5	56	5.2	3.6N	128.5E
20	iP	NEZ	13 09 01.5 D	41.2	579	5.0	19.9S	177.7W
	e	NEZ	13 44					
20	iP	NEZ	13 36 32.0 D	39.6	83	5.5	3.6N	128.1E

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BULLETIN FOR FEBRUARY 1969

<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h (kms)</u>	<u>Mag.</u>	<u>Epicentre</u>
20	eP	NEZ 14 13 46	39.5	73		3.4N 128.0E
20	iP	NEZ 15 45 29.0 U	39.4	59	5.1	3.5N 128.6E
20	iP eS	NEZ 17 05 43.6 D NE 11 44	39.7	48	5.3	3.7N 128.2E
20	eP	NEZ 17 19 59				
20	iP	NEZ 18 04 16.1 D	35.4	616	4.8	25.0S 178.2E
20	eP	NEZ 19 17 45	39.7	72	5.0	3.8N 128.4E
20	eP	NEZ 19 34 24	39.4	76	5.0	3.4N 128.4E
22	iP	NEZ 01 35 47.0 D	32.6	79	4.9	8.1S 158.9E
22	eP	NEZ 08 15 26	27.5	33	5.1	8.6S 129.7E
22	iP	NEZ 18 01 15.2 U	39.7	96	5.2	3.5N 128.2E
22	eP	NEZ 18 13 08	39.7	33	4.6	3.6N 128.3E
22	eP	NEZ 18 18 20	39.5	138	5.0	24.8S 177.0W
22	iP	NEZ 23 04 16.0 U	30.7	540	5.5	6.9S 124.9E
23	iP	NEZ 00 44 05.0 U	36.8	13	6.1	3.1S 118.9E
23	eP	NEZ 01 20 20	36.4	33	5.3	3.3S 119.1E
23	eP	NEZ 02 24 08	36.8	33	5.4	3.1S 118.8E
23	eP	NEZ 02 58 11	36.4	22	5.2	3.4S 119.1E
23	eP	NEZ 06 10 54	36.4	7	5.3	3.4S 119.0E
24	iP e i	NEZ 00 14 47.8 U NEZ 15 22 NEZ 20 24	29.5	38	5.8	6.2S 131.0E
24	iP	NEZ 01 08 32.0 D	38.3	16	5.1	1.7N 126.4E
24	eP	NEZ 04 25 02	36.8	33	5.1	3.2S 119.0E
24	eP	NEZ 15 32 56	41.8	52	4.8	5.4N 126.4E
24	eP	NEZ 16 49 17	39.6	39	5.0	3.7N 128.8E
24	eP i	NEZ 20 53 30 NEZ 59 27.5	29.5	70	5.2	6.4S 130.2E
25	iP	NEZ 01 42 48.9 U	41.6	65	5.5	5.2N 126.3E
25	iP	NEZ 03 58 03.5 U	34.3	325	5.1	32.4S 180.0E
25	iP	NEZ 05 01 51.8 U	32.5	70	4.9	6.1S 154.7E
25	iP	NEZ 13 40 20.0 D	32.6	125	5.0	15.0S 167.4E
25	iP	NEZ 14 48 50.4 U	32.6	132	5.0	15.0S 167.4E
26	iP eS	NEZ 01 38 20.0 U NEZ 43 53	42.1	636	5.1	4.3N 122.1E

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION

BULLETIN FOR FEBRUARY 1969

<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h (kms)</u>	<u>Mag.</u>	<u>Epicentre</u>	
26	iP NEZ	22 55 06.1 D	38.4	79	4.9	2.6N	128.9E
27	eP NEZ	22 39 13	27.7	33	4.7	12.1S	121.5E

BULLETIN FOR MARCH 1969

Date	Phase		Time	Δ°	h (kms)	Mag.	Epicentre	
2	eP	NZ	03 13 58	30°4	70	4.8	6°0S	148.8E
2	iP	NZ	04 54 36.1 D	37°6	138	5.3	1°5N	128°1E
2	eP	NZ	06 31 34	31°4	33	5.0	47°4S	100°1E
2	eP	NZ	14 02 34	36°8	448	4.6	25°0S	179°9E
2	iP	NZ	22 30 20.4 D	50°6	54	5.0	12°9N	120°8E
2	eP	NZ	22 45 59	50°6	46	4.4	12°9N	120°6E
3	eP	NZ	09 02 14	47	99	5.1	10°6N	125°3E
3	iP	NZ	19 38 44.0 U	38°1	33	5.1	1°5N	126°3E
3	iP	NZ	22 41 17.0 D					
3	iP	NZ	22 44 14.4 D					
4	eP	NZ	04 20 33.5					
	eS	NZ	21 15			Local		
5	iP	NZ	08 59 43.5 ^z D	46°4	66	5.1	9°9N	125°8E
5	iP	NZ	13 59 37.2 D	40	48	5.7	4°0N	128°2E
5	eP	NZ	16 18 44	40°2	49	5.1	4°1N	128°4E
5	iP	NZ	19 46 22.5 U	95°1	208	5.9	36°4N	70°7E
6	eP	NZ	01 13 34	40°2	39	5.1	4°2N	128°3E
6	eP	NZ	01 28 20	40°2	33	5.1	4°2N	128°3E
6	iP	NZ	03 33 29.0 U	40°2	33	5.0	4°3N	128°4E
6	eP	NZ	07 50 48	52°9	33	4.8	15°8N	121°8E
7	iP	NZ	01 52 11.0 U	44°1	264	4.5	17°8S	175°4W
8	eP	NZ	06 09 16	32°7	88		5°9S	155°3E
8	iP	NZ	10 31 39.0 U	75°9	169	5.7	41°3N	139°6E
8	eP	NZ	11 37 49	40	59	4.8	4°0N	128°3E
8	eP	NZ	11 57 21	39°7	54	5.0	3°8N	128°2E
8	eP	NZ	21 13 40	38°9	42	5.1	2°3N	126°5E
9	iP	NZ	13 13 44.0 U	38°1	38	5.2	1°5N	126°3E
9	eP	NZ	13 54 19	31°9	14	5.5	4°1S	135°5E
	iS	NEZ	59 28					
9	iP	NZ	14 37 03.7 D	65°9	33	5.2	31°2N	141°5E
9	iP	NZ	14 45 19.1 D	31°9	33	5.5	4°1S	135°6E
9	eP	NZ	16 00 11	31°9	33	4.8	4°2S	135°5E
10	iP	NZ	03 13 07.2 U					

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION
BULLETIN FOR MARCH 1969

<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h (kms)</u>	<u>Mag.</u>	<u>Epicentre</u>			
10	iP e	NZ NEZ	07 00 11.0 04 56	D	30.3	206	5.8	5.6S	147.2E
11	eP	NZ	10 36 23.5		29.1	46	5.0	8.9S	124.0E
11	eP eS	NZ NZ	11 49 18.0 49 44.2				Local		
11	iP	NEZ	15 43 51.5	D	61.9	186	4.8	25.7N	123.8E
12	iP	NEZ	07 08 19.4	D	31.8	230		5.0S	150.7E
12	eP	NZ	22 42 45		46.4	76	4.8	10.1N	125.8E
13	eP	NZ	00 18 58		38.1	33		1.5N	126.3E
13	eP eS	NZ NZ	07 55 07.3 55 49.0				Local		
13	iP i iS	NZ Z NZ	20 47 00.0 51 51 52 18.3	D	39.3	502	5.2	5.5S	110.4E
14	ePKP e	NZ NZ	09 06 14 09 27		133.5	178	5.6	12.9N	86.8W
14	eP i i	NZ NZ NZ	22 08 50 09 23 14 28.4		29.0	116	5.3	7.0S	129.7E
15	iP	NEZ	11 51 24.4	D	34	112	4.7	2.8S	126.5E
15	eP eT	NEZ NEZ	15 02 11 18 02		17.7	33	5.0	49.5S	125.0E
15	iP	NEZ	15 39 35.0	D	42	192	5.1	5.3N	125.3E
16	eP	NEZ	16 05 46		73.2	40	5.4	38.5N	142.7E
17	iP	NEZ	01 02 49.7	D	40.4	614	5.4	17.7S	179.9E
17	iP	NEZ	01 08 43.5	D	40.4	625	4.5	17.7S	179.9E
17	iP	NEZ	01 36 55.0	D	40.4	615	4.8	17.6S	179.8E
17	eP	NZ	23 44 31						
18	iP	NZ	03 31 56.3	D	31.4	15	5.5	21.4S	171.1E
18	eP	NZ	03 39 11		31.4	33	5.3	21.4S	170.9E
18	eP	NZ	03 49 55		47.1	39	5.1	15.2S	173.5W
18	iP	NZ	16 28 44.0	D	79.5	44	5.7	44.1N	151.0E
18	eP	NZ	22 43 05		40.6	68	5.4	24.0S	176.0W
19	eP	NZ	06 38 07		43.3	115		7.0N	126.5E
19	iP	NZ	14 09 44.1	U	64.2	136	5.8	28.8N	128.2E
19	iP eS	NZ NZ	15 41 41.1 46 19	U	33.1	636	5.4	5.8S	121.5E
19	iP	NZ	16 15 41.6	U	50.7	80	5.4	14.0N	123.9E

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION

BULLETIN FOR MARCH 1969

<u>Date</u>	<u>Phase</u>		<u>Time</u>		Δ°	h (kms)	<u>Mag.</u>	<u>Epicentre</u>	
20	iP	NZ	16 27 09.4	D	44.7	33	6.1	8.7N	127.3E
	i	NEZ	29 04.8						
	iS	NEZ	33 44						
20	eP	NZ	23 46 54		44.7	33	5.1	8.8N	127.3E
21	eP	NZ	02 05 15.5				local		
	eS	NZ	05 17.6						
21	iP	NZ	02 45 13.8		29.8	90	5.4	6.1S	147.4E
21	iP	NZ	06 05 37.0				local		
	iS	NZ	05 39.0						
22	iP	NZ	05 52 09.4	D	44.8	33	5.4	15.5S	176.1W
22	eP	NZ	06 10 09				Local		
	eS	NZ	10 11.9						
22	iP	NZ	07 46 17.7				local		
	iS	NZ	46 20.0						
22	eP	NZ	13 39 10		43.1	33	5.0	16.5S	177.5W
22	eP	NZ	15 32 28.3		44.7	33	4.9	15.3S	176.3W
22	eP	NZ	17 38 16		38.9	42	5.2	0.7S	122.5E
23	iP	NEZ	02 14 16.2	U	37.0	550	5.1	24.8S	179.8E
26	eP	NEZ	15 37 02		53.2	36	5.0	16.2N	122.2E
26	eP	NEZ	17 37 01		35	47	4.8	33.1S	178.9W
27	eP	NEZ	04 53 58.0		40	33	5.7	3.9N	128.5E
27	iP	NEZ	12 49 16.7	U	41	32	6.1	4.8N	127.5E
27	iP	NEZ	20 56 24.3	U	52	66	5.2	16.2N	146.1E
28	iPKP	NZ	02 07 32.6	D	125.2	9	6.0	38.6N	28.4E
28	eP	NZ	09 33 46.5		57.3	169	5.0	22.6N	142.9E
29	e	N	09 58 30.0						
30	eP	NZ	07 18 44		40.4	70	4.9	4.5N	128.0E
30	eP	NZ	08 02 47.5		40.4	33	5.4	4.4N	128.0E
30	eP	NZ	21 04 36		40.8	61	5.1	4.7N	127.6E
31	ePKP	NZ	07 34 43.5		116.6	33	6.0	27.7N	34.0E
31	iP	NZ	09 47 54.6	D					
31	iP	NZ	12 55 02.0	U					
31	iP	NZ	19 36 14.6	D	73	417	5.9	38.3N	134.6E
	iS	NEZ	45 14						



SEISMOLOGICAL BULLETIN

THE UNIVERSITY OF ADELAIDE
DEPARTMENT OF PHYSICS

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATIONADELAIDE (MOUNT BONYTHON)

Latitude: $34^{\circ} 58' 01''$
Longitude: $138^{\circ} 42' 32''$
Height above mean sea level: 2150 ft., 655.3 metres
Foundation Sandstone

Instruments: World-wide Standard seismograph system

Benioff short period seismometers

$T_0 = 1.0$ secs.

$T_g = 0.75$ secs.

Sprengnether long period seismometers

$T_0 = 30$ secs.

$T_g = 100$ secs.

Nominal magnifications : S.P. 25,000

L.P. 750

BULLETIN FOR APRIL 1969

Date	Phase		Time		Δ°	h (kms)	Mag.	Epicentre	
1	eP	Z	01 22 59		29.1	110		6.9S	129.8E
1	iP	Z	04 50 19.7	D	41.3	600	4.4	17.7S	178.9W
1	eP	Z	20 38 28		48.9	33	5.2	1.7S	100.0E
2	iP	Z	00 30 58.2	D	39.9	600	4.5	20.7S	178.7W
2	eP	Z	07 31 10		37.3	105	5.6	8.0S	110.4E
2	eP	Z	12 46 48		60.6	33	4.5	8.7N	93.9E
2	iP	Z	19 39 29.6	D	50.9	13	5.0	13.3N	121.2E
2	eP	Z	21 44 36		42.5	70	5.0	5.9N	125.9E
2	iP	Z	21 53 42.6	U					
3	eP	Z	04 14 17		29	107	4.9	7.2S	128.9E
	e	Z	19 53.5						
3	eP	Z	07 28 06						
3	iP	Z	15 08 36.1	U	29.6	40	5.2	6.5S	130.5E
3	iP	Z	19 28 15.0	U	39.9	80	5.2	3.8N	128.1E
5	iP	Z	03 52 01.0	U	40.1	150	5.4	3.4N	125.4E
5	eP	Z	04 11 38		39.5	55	5.3	3.4N	128.2E
5	eP	Z	06 58 13		20	33	5.2	54.7S	143.8E
	eT	Z	07 15 43						
5	iP	Z	08 51 21.2	U					
5	eP	Z	12 05 32		29.1	132		7.3S	128.4E
6	eP	Z	09 59 13		50.5	18	4.8	13.3N	122.5E
6	iP	Z	20 21 15.1	U	88.9	93	5.8	56.3S	26.9W
7	eP	Z	03 47 17		40.5	70	5.1	4.4N	127.9E
8	iP	Z	10 29 06.5	D	38	69	5.3	1.4N	126.3E
9	iP	Z	11 55 28.0	D	74.7	23	5.8	49.1S	30.8E
9	iP	Z	13 08 34.1	U	71.4	116	5.5	36.8N	139.6E
10	iP	Z	22 07 46.4	D	61.9	141	5.3	25.8N	124.9E
12	iP	Z	10 53 45.2	D	46.4	11	5.3	10.2N	126.3E
13	eP	Z	15 36 43		76.2	33	5.3	17.9N	80.6E
13	eP	Z	23 39 16		29.9	152	5.9	6.1S	129.9E
	eS	NEZ	43 56						
14	iP	Z	07 07 56.7	U	43.6	102	5.7	5.2S	104.3E
15	iP	Z	22 21 34.8	U	37.2	575	5.6	5.9S	113.2E
	iS	Z	26 30.0						
16	iP	Z	01 29 22.2	U	33.3	39	5.7	3.5S	151.0E

BULLETIN FOR APRIL 1969

<u>Date</u>	<u>Phase</u>		<u>Time</u>		Δ°	$\left(\frac{h}{kms}\right)$	<u>Mag.</u>	<u>Epicentre</u>	
16	iP	Z	12 26	04.1 U	33.2	153	5.7	13.6S	166.9E
17	iP	Z	01 03	19.2 D					
17	eP	Z	03 37	45			Local		
	eS	Z		38 16.5					
	eS	Z		38 20.5					
17	eP	Z	06 01	04.5			Local		
	eS	Z		01 32					
17	eP	Z	07 00	25.5	39.1	54	5.2	8.8S	106.9E
17	eP	Z	07 07	08	39.2	33		8.6S	107.0E
17	eP	Z	19 04	53					
18	eP	Z	12 38	17	30.8	33	5.5	4.5S	132.7E
19	eP	Z	06 15	00	42.3	605	4.7	17.7S	178.7W
19	iP	Z	08 53	14.4 D	43.0	40	5.7	6.2S	103.9E
21	iP	NEZ	07 30	18.6 U	67.1	41	6.1	32.2N	131.9E
22	eP	NEZ	08 23	04	74.5	36	5.5	39.8N	143.0E
22	iP	NEZ	18 05	47.7 U					
22	eP	NEZ	19 41	17					
23	iP	NEZ	17 53	35.5 D					
24	eP	NEZ	00 24	22.5	33.2	27	5.0	2.8S	129.3E
24	eP	NEZ	22 50	18	46.4	81	4.6	10.1N	125.9E
25	eP	NEZ	05 02	31	55.3	33	4.9	5.0N	97.9E
25	iP	NEZ	13 23	27.0 U	36.7	459	4.7	24.9S	179.8E
25	eP	NEZ	21 27	56	39.9	27	5.2	1.3N	120.4E
26	eP	NEZ	05 27	14	53.2	99	4.5	18.1N	146.3E
26	iP	NEZ	20 25	26.6 U	46.4	127	5.1	3.0S	102.3E
27	iP	NEZ	01 44	47.9 U	39.8	12	5.4	0.9N	120.1E
27	iP	NEZ	13 11	48.6 U	86.7	42	5.7	57.7S	25.4W
28	eP	NZ	00 55	04	48.4	51	5.3	13.3N	145.1E
28	iP	NZ	07 32	37.3 D	40	296	5.9	22.4S	177.7W
	i	Z		38 00.6					
28	iP	NZ	13 01	42.4 U	73.2	50	5.2	25.9N	95.3E
28	eP	NZ	18 04	54	36.7	49	4.9	30.3S	177.8W
28	iP	NZ	19 45	31.1 D	32.6	77	5.7	7.9S	158.8E
29	eP	NEZ	09 40	38					
30	iP	NEZ	01 58	56.0 D					
30	iP	NEZ	21 39	33.9 U	44.2	34	5.8	7.5N	124.9E

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION
BULLETIN FOR MAY 1969

<u>Date</u>	<u>Phase</u>		<u>Time</u>		<u>Δ°</u>	<u>h</u> (kms)	<u>Mag.</u>	<u>Epicentre</u>	
3	eP	NEZ	03 43 31.6		31.3	42		3.6S	135.8E
3	eP	NEZ	08 32 27		60.9	33	5.2	8.3N	175.6W
4	iP	NEZ	07 15 00.1		41.4	578	5.0	17.6S	178.9W
4	eP	NEZ	12 43 05		32.1	11	5.5	17.4S	168.9E
4	iP	NEZ	15 18 15.0	U	30.6	94	5.1	8.6S	121.4E
	i	NEZ	18 58						
	i	NEZ	24 31.5						
4	iP	NEZ	17 25 40.5	U	38.5	165	5.5	0.ON	123.3E
	iS	NEZ	31 28.7						
5	eP	NEZ	01 36 45		24.3	33		58.2S	149.3E
5	eP	NEZ	02 14 13		23.7	33	4.9	57.8S	147.6E
5	iP	NEZ	05 22 30.6	D	23.9	33	4.9	58.1S	148.4E
5	ePKP1	NEZ	05 54 23		154.8	29	5.5	36.ON	10.4W
	ePKP2	NEZ	54 38.8						
5	iP	NEZ	14 17 35.0	U	9.5	25		44.2S	141.4E
	iS	NEZ	19 15						
7	eP	NZ	13 54 55		13.6	33	4.9	6.9S	122.5E
8	eP	NZ	01 58 42		48.3	51	5.1	13.3N	144.9E
8	iP	NZ	09 31 40.9	D					
8	eP	NZ	22 43 22		30.0	76	5.1	5.6S	146.2E
9	eP	NEZ	13 36 21		29.2	37	5.2	8.9S	124.0E
	e(S)	NEZ	41 34						
13	eP	NEZ	06 07 27		37.9	13	4.8	1.3N	126.3E
13	iP	NEZ	14 36 00.0	D	32.1	616	5.6	7.2S	120.9E
	iS	NEZ	40 30						
	i	NEZ	43 32						
14	eP	NEZ	19 46 09		93.2	21	6.2	51.3N	179.9W
15	eP	NEZ	02 07 13		69.6	60	4.3	34.9N	140.0E
15	iP	NEZ	08 02 18.1	D	53.1	57	5.2	16.1N	121.9E
15	ePKP	NEZ	21 03 31.5		154.6	50	5.7	16.8N	61.3W
15	iP	NEZ	22 44 13.0	D	32.6	463	5.3	7.2S	120.3E
16	eP	NEZ	05 25 34						
16	iP	NEZ	07 10 42.0	U	38.7	50	5.4	27.5S	176.6W
16	eP	NEZ	16 27 40		50.1	50	5.1	0.5S	99.4E
17	eP	NEZ	12 00 22.1				Local		
	eS	NEZ	00 53.8						
18	iP	NEZ	00 21 55.1	U	31.6	16	5.6	9.0S	158.4E
18	eP	NEZ	03 00 40						

BULLETIN FOR MAY 1969

<u>Date</u>	<u>Phase</u>		<u>Time</u>		<u>Δ°</u>	<u>h</u> (kms)	<u>Mag.</u>	<u>Epicentre</u>	
18	eP	NEZ	03 16 19						
18	iP	NEZ	09 52 45.0	D	38.2	113	4.8	2.3N	128.7E
20	iP	NEZ	03 50 20.3	D	38.9	217	5.2	3.0N	128.6E
21	iP	NEZ	08 05 29.3	D					
21	iP	NEZ	17 11 34.4	D	33.1	65	5.1	4.6S	153.2E
23	iP	NEZ	04 43 48.5	D	42.9	129	5.0	6.6N	126.6E
23	iP	NEZ	16 19 20.6	U	43.6	66	4.9	7.4N	126.8E
23	eP	NEZ	22 00 40		32.8	177	4.7	14.6S	167.4E
24	eP	NEZ	16 34 00		32.3	96	5.2	10.1S	161.3E
25	eP	NEZ	20 25 22		35.4	70	5.4	32.0S	178.8W
25	eP	NEZ	22 43 25		86.6	33	5.6	57.7S	25.2W
26	iP	NEZ	01 31 20.0	U	29.1	115	5.5	7.0S	129.6E
	eS	NEZ	36 53						
26	iP	NEZ	15 45 57.3	D	48.1	14	5.2	11.8N	125.8E
26	eP	NEZ	16 48 18		48.1	33	5.2	11.8N	125.7E
27	eP	NEZ	09 34 11		36.9	33	5.3	0.2S	125.0E
27	iP	NEZ	15 08 04.5	D	33.7	8	5.2	10.7S	164.4E
27	iP	NEZ	16 35 31.7	U	29.3	30	5.3	8.8S	124.1E
	eS	NEZ	41 04						
30	eP	NEZ	16 02 37		35.9	34	5.2	32.2S	178.1W
30	eP	NEZ	16 29 47		35.9	33	5.5	32.3S	178.1W
30	eP	NEZ	23 25 55		29.0	104	4.8	7.0S	129.8E
31	eP	NEZ	04 03 08						
	eS	NEZ	03 16				local		

BULLETIN FOR JUNE 1969

<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h</u> <u>(kms)</u>	<u>Mag.</u>	<u>Epicentre</u>	
1	eP	NEZ	00 02 25				
1	eP	NEZ	02 07 38	62.1	482	4.9	27.5N 139.8E
1	iP	NEZ	13 56 36.7	U 39.7	46	5.3	3.3N 126.6E
1	eP iS	NEZ NEZ	17 36 24.5 37 38.6			Local	
1	eP	NEZ	20 00 14	35.2	17	5.0	31.7S 178.2W
1	eP	NEZ	23 27 02	31.8	110	4.8	3.3S 142.9E
2	iP	NEZ	05 48 07.9	U 47.8	127	4.8	12.9N 143.4E
2	eP	NEZ	18 34 36	44.8	62	4.7	4.8S 102.7E
3	iP	NEZ	10 29 01.5	U 58.6	33	3.7	6.7N 94.8E
4	eP	NEZ	04 45 37	36.1	33	4.7	32.3S 177.8W
4	eP	NEZ	16 30 00	46.9	42	4.9	16.2S 173.0W
4	iP	NEZ	16 47 09.9	D 28.9	93	5.1	7.0S 129.9E
4	iP	NEZ	17 22 20.8	U 37.2	485	4.4	25.0S 179.7W
4	iP	NEZ	19 09 02.5	D			
4	iP	NEZ	20 26 36.1	U 52.3	29	5.1	15.2N 122.3E
5	iP	NEZ	10 55 22.9	D 56.3	33	5.3	4.9N 96.3E
5	eP	NEZ	11 05 47	29.2	156	5.1	7.1S 129.1E
5	iP	NEZ	17 27 28.0	U 38.3	97	5.2	1.9N 127.4E
5	eP	NEZ	21 03 30	42.7	42	4.9	6.3N 126.3E
6	eP	NEZ	19 35 54	29.4	182	4.9	7.2S 127.8E
9	iP	NEZ	06 57 43.0	D 31.9	17	5.2	3.2S 142.9E
9	eP	NEZ	22 00 48	41.7	33	5.5	23.5S 175.0W
10	eP	NEZ	10 52 38	91.9	33	4.8	22.2S 112.2W
10	iP	NEZ	12 55 52.3	D			
10	iP	NEZ	17 24 26.9	U 50.7	37	5.4	13.2N 121.4E
11	iP	NEZ	04 57 24.5	D 51.7	53	5.3	1.1N 98.8E
11	eP	NEZ	05 50 38	33	53	4.7	2.9S 129.2E
11	eP	NEZ	12 26 56	50.7	23	4.7	13.1N 121.0E
12	eP	NEZ	13 00 15	45.7	69	4.9	9.4N 126.2E
12	ePKP	NEZ	15 32 34	126.4	25	5.8	34.4N 25.1E
12	eP	NEZ	19 09 20	60.7	33	5.3	24.0N 122.4E
12	eP	NEZ	20 41 39	87.9	9	5.5	56.5S 25.3W
13	iP eS	NEZ NEZ	09 01 01.0 11 28	U 85.4	64	5.9	49.4N 155.5E

BULLETIN FOR JUNE 1969

Date	Phase		Time		Δ°	h (kms)	Mag.	Epicentre	
14	iP	NEZ	03 29 25.2	U	32.7	62	6.0	7.9S	159.0E
14	eP	NEZ	03 47 58		44.1	33	5.4	7.1N	124.0E
14	eP	NEZ	09 30 40		32.6	113	4.8	2.2S	137.8E
15	eP	NEZ	04 31 04		29.6	36	5.1	8.6S	124.0E
15	iP	NEZ	14 39 30.6				local		
	iS	NEZ	39 34.5						
15	eP	NEZ	17 04 47		45.3	38	5.3	4.7S	102.2E
16	iP	NEZ	15 52 19.8	D	32.2	38	5.4	4.9S	125.7E
17	iP	NEZ	19 35 34.0	U	54.1	206	5.8	19.0N	14.5.5E
17	eP	NEZ	19 59 22						
	e(S)	NEZ	20 03 15						
18	eP	NEZ	00 03 16		23.1	33	6.1	52.6S	159.7E
	eS	NEZ	07 20						
18	eP	NEZ	02 48 31						
18	iP	NEZ	20 18 24.0	U	58.1	69	5.1	5.9N	94.7E
18	iP	NEZ	20 50 34.1	D	37.6	5	5.3	0.5N	126.1E
19	iP	NEZ	07 13 30.7	D	63.2	45	5.5	28.1N	130.0E
19	iP	NEZ	13 43 48.3	D	41.7	54.5	5.0	18.0S	178.3W
20	iP	NEZ	06 51 17.9	D	38.6	77	5.4	2.6N	128.5E
20	iP	NEZ	11 17 13.7	D	6.9	19		38.6S	146.0E
20	iP	NEZ	11 44 09.0	D					
20	iP	NEZ	15 49 34.1	D	75.4	67	5.4	40.8N	142.1E
20	eP	NEZ	20 59 05		31.1	40		38.0S	177.4E
21	iP	NEZ	04 29 59.4	D	41.1	77	4.9	5.0N	127.8E
21	iP	NEZ	06 45 14.6	U	47.7	73	5.3	11.3N	125.3E
21	eP	NEZ	07 56 18		50.4	23	5.2	13.3N	122.8E
	eP	NEZ	56 22						
21	iP	NEZ	15 18 56.1	D	39.7	56.1	5.6	5.5S	109.6E
21	eP	NEZ	17 14 30		53.2	33	5.0	14.9N	119.6E
22	iP	NEZ	02 46 30.3	U	85.7	33	5.6	49.2N	158.5E
22	eP	NEZ	06 19 25		35.3	33	4.9	32.0S	177.9W
22	eP	NEZ	08 10 10						
22	eP	NEZ	10 58 35		93.4	56	6.1	51.5N	179.9W

BULLETIN FOR JUNE 1969

<u>Date</u>	<u>Phase</u>	<u>Time</u>		<u>Δ°</u>	<u>h</u> <u>(kms)</u>	<u>Mag.</u>	<u>Epicentre</u>	
22	eP eS	NEZ NEZ	16 30 58.4 32 56.0					
23	eP	NEZ	00 23 08	23.6	27	5.3	49.3S	164.2E
24	iP	NEZ	03 35 17.0 U	30	113	5.6	5.8S	146.8E
24	iP	NEZ	11 07 01.7 U	50.3	42	5.1	13.3N	123.0E
27	iP iPP	NZ NZ	02 53 43.1 U 54 14.8	29.5	113	5.3	6.4S	130.1E
27	iP	NZ	07 47 56.8 U	33.2	39	5.3	14.7S	167.7E
27	iP	NZ	08 02 21.4 U	40.8	33	5.2	4.4N	126.7E
28	iP	NEZ	08 27 15.8 D	42.8	91	5.4	5.8S	104.6E
28	iP	NEZ	14 30 06.0 D	43	114	5.2	6.7N	126.6E
29	iP	NEZ	08 04 10.2	41.5	585	5.1	17.7S	178.7W
29	eP	NEZ	10 41 09.4	36.3	43	5.6	30.5S	178.2W
29	eP eS	NEZ NEZ	17 15 47 21 08	32.8	33	5.5	62.8S	166.3E
30	iP	NEZ	18 27 50.5 D	30.7	32	5.2	9.3S	120.1E

8 APR 1970



SEISMOLOGICAL BULLETIN

THE UNIVERSITY OF ADELAIDE
DEPARTMENT OF PHYSICS

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATIONADELAIDE (MOUNT BONYTHON)

Latitude: $34^{\circ} 58' 01''$
Longitude: $138^{\circ} 42' 32''$
Height above mean sea level: 2150 ft., 655.3 metres
Foundation Sandstone

Instruments: World-wide Standard seismograph system

Benioff short period seismometers

$T_0 = 1.0$ secs. $T_g = 0.75$ secs.

Sprengnether long period seismometers

$T_0 = 30$ secs. $T_g = 100$ secs.

Nominal magnifications : S.P. 25,000

L.P. 750

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION
BULLETIN FOR JULY 1969

<u>Date</u>	<u>Phase</u>		<u>Time</u>		Δ°	h (kms)	<u>Mag.</u>	<u>Epicentre</u>	
2	eP	NEZ	17 34 40		38.4	8	4.8	28.3S	176.5W
3	eP	NZ	06 42 41		44.2	97	5.0	7.1N	126.7E
3	eP	NZ	07 15 42						
	eS	NZ	21 18						
3	iP	NZ	14 12 42.2	U	31.9	193	5.1	4.4S	128.4E
3	eP	NZ	21 41 26						
	i	NZ	42 17				local		
4	eP	NZ	22 59 09		21.8	33	4.9	55.9S	147.2E
5	iP	NZ	01 50 24.4	D	31.8	33	5.5	3.8S	131.5E
5	eP	NZ	11 22 02		53.9	57	5.0	18.6N	147.0E
6	eP	NZ	03 48 12		32.2	94	4.6	6.4S	154.9E
6	iP	NZ	10 56 51.6	D	36.4	522	4.8	25.4S	179.6E
6	eP	NZ	14 39 46		47.3	33	5.0	15.3S	173.4W
7	eP	NZ	03 45 14.5		38.4	42	5.1	1.8N	126.4E
7	iP	NZ	04 52 21.8	D	51.9	38	5.7	16.5N	147.3E
8	iP	NZ	04 14 03.8	U	38.5	16	5.5	2.1N	126.6E
8	eP	NZ	07 17 15.3		34.6	110	4.5	34.1S	179.2W
8	iP	NZ	07 31 37.2	D	88.3	175	5.1	56.3S	27.6W
8	eP	NZ	13 05 32						
8	eP	NZ	18 51 14.5		38.1	57	5.1	1.4N	126.2E
9	iP	NZ	03 09 49.0	D	34.7	37	5.1	34.2S	178.9W
9	iP	NZ	05 36 38.0	D	34.7	33	5.6	34.1S	178.8W
9	eP	NZ	08 25 02		29.4	106	5.1	7.4S	126.9E
	i	NZ	25 40						
9	iP	NZ	22 58 12.6	U	29.4	34	5.2	8.8S	124.0E
11	eP	NEZ	06 22 23						
11	iP	NEZ	09 01 21.2	D					
12	iP	NEZ	05 20 56.9	U	42.7	142	5.3	6.2N	126.1E
12	iP	NEZ	13 23 01.0	U	35.0	603	5.0	26.1S	178.3E
13	iP	NEZ	14 05 27.2	U	32.2	533	4.7	8.5S	158.9E
14	eP	NEZ	09 32 25		38.9	33	4.8	2.4N	126.8E
14	eP	NEZ	14 26 12		37.8	588	4.7	23.3S	179.8E
16	iP	NEZ	04 55 20.6	D	41.6	75	5.4	5.3N	126.8E
16	eP	NEZ	05 32 58		65.9	33	5.1	17.6S	66.3E

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION
BULLETIN FOR JULY 1969

<u>Date</u>	<u>Phase</u>	<u>Time</u>		<u>Δ°</u>	<u>h</u> (kms)	<u>Mag.</u>	<u>Epicentre</u>	
16	iP NEZ	08 29 40.8	U	88.6	69	5.8	52.2N	159.0E
16	iP NEZ	12 45 54.4	U	33.0	85	4.6	4.7S	153.1E
16	eP NEZ	13 02 50		48	92	5.0	13.0N	144.9E
16	eP NEZ	15 58 20						
16	iP NEZ	23 11 44.6		85.2	33	4.8	59.2S	25.3W
17	eP NEZ	22 58 56						
	iS NEZ	59 10.9				local		
18	iP NEZ	04 14 29.0	U	29.5	145	5.3	6.4S	130.0E
18	eP NEZ	05 36 27		75	33	6.2	38.3N	119.4E
	e NEZ	53 11						
18	iP NEZ	10 38 04.2	D	42.9	70	5.1	6.2N	125.2E
19	iP NEZ	01 39 36.8	U	29.5	142	5.3	6.4S	130.1E
	e NEZ	45 30						
19	eP NEZ	05 18 17		38.8	659	5.0	21.5S	179.5W
20	iP NEZ	20 11 00.8		32.4	196	5.3	15.6S	167.8E
21	iP NEZ	11 35 26.8						
	iS NEZ	35 31.9				local		
21	iP NEZ	22 14 09.9	U	40	220	5.6	2.9N	124.7E
22	iP NEZ	17 20 46.7	U	34.2	144	5.4	11.8S	166.5E
22	iP NEZ	20 02 43.6	D	38.5	180	5.1	26.1S	177.5W
23	iP NEZ	08 08 16.1	D	36.9	545	5.0	23.7S	179.2E
24	iP NEZ	05 10 45.6	U	38.2	41	5.4	1.6N	126.5E
24	iP NEZ	15 17 43.9	U	34.4	53	5.1	1.8S	128.5E
25	eP NEZ	04 44 39.4		36.8	82	5.3	0.2S	125.1E
25	eP NEZ	13 07 44.6		56.4	30	4.9	18.8N	119.7E
25	iP NEZ	13 41 35.9	D	39.0	33	5.6	2.6N	126.6E
25	iP NEZ	22 59 58.4	D	61.7	33	5.4	21.6N	111.9E
26	eP NEZ	05 31 50						
26	iP NEZ	14 52 26.8	U	33.3	34	5.5	11.6S	165.1E
26	iP NEZ	17 30 05.8	U	88	38	5.5	56.4S	25.9W
27	iP NEZ	08 56 42.0	D	41.9	552	4.0	17.6S	178.3W
27	eP NEZ	09 25 03						
27	iP NEZ	22 37 01.7		61.5	105	5.4	24.9N	122.5E
28	iP NEZ	13 14 02.2	U	65.6	24	5.6	30.7N	132.5E

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION

BULLETIN FOR JULY 1969

<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h (kms)</u>	<u>Mag.</u>	<u>Epicentre</u>
28	eP NEZ	14 11 23.7	38.7	610	4.5	21.8S 179.6W
28	eP NEZ	15 47 51	58.8	33	5.2	24.1N 142.7E
29	eP NEZ	02 01 50.8	31.9	6	5.5	3.4S 144.8E
29	iP NEZ	03 43 59.4	D 33.7	376	4.5	3.4S 151.9E
29	iP NEZ	06 30 44.9	U 32.5	124	5.4	14.8S 167.2E
29	eP NEZ	06 46 50.1				
29	iP NEZ	14 08 23.3				
	iS NEZ	08 51.2				local
	iS NEZ	08 53.1				
30	iP NEZ	00 38 17.9	D			
30	iP NEZ	01 35 35.8	D 33.6	193	4.8	13.1S 166.9E
30	eP NEZ	03 33 25.8	57.2	20	5.3	22.4N 142.8E
30	eP NEZ	04 29 11	63.2	33	5.1	28.5N 142.6E
30	iP NEZ	05 06 59.6	D			
30	eP NEZ	23 59 55	40	137	4.9	23.6S 177.0W
31	iP NEZ	02 42 03	36.4	33	5.0	0.1S 127.1E
31	eP NEZ	05 15 18	61.2	33	5.3	27.6S 66.2E
31	eP NEZ	08 52 08	33.3	28	4.9	3.8S 151.6E

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION
BULLETIN FOR AUGUST 1969

<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h (kms)</u>	<u>Mag.</u>	<u>Epicentre</u>
1	eP NEZ	12 12 50.7	39.6	189	5.0	23°4S 177°5W
1	ePKP NEZ	13 27 00.5	154.1	47	5.0	18.8N 64.4W
1	eP NEZ	15 15 00	40.4	33	4.9	3.8N 125.7E
4	iP NEZ	02 59 00.1 D	34.1	599	4.7	7.1S 117.2E
4	iP NEZ	17 25 01.5 U	31.6	521	6.2	5.7S 125.3E
	iS NEZ	29 28				
	iSS NEZ	32 20				
5	eP NEZ	02 20 21.6	37.6	34	6.1	1.3N 126.2E
	iP NEZ	20 26.0				
5	iP NEZ	03 28 06.5 D	37.6	47	5.1	1.2N 126.3E
5	eP NEZ	06 58 48.0 D	37.6	37	5.2	1.3N 126.3E
5	eP NEZ	13 10 41	37.6	18	5.2	1.3N 126.4E
5	eP NEZ	16 38 54	32.7	69	5.4	5.2S 153.8E
6	eP NEZ	13 56 53				
7	iP NEZ	01 55 52.1 U	32.7	116	5.2	5.3S 154.1E
8	eP NEZ	05 10 04	43.7	52	5.2	7.2N 125.7E
8	iP NEZ	06 43 58.0 U	95	198	5.8	36.4N 70.9E
8	iP NEZ	20 50 12.1 D	30.0	196	5.9	6.1S 129.7E
	iS NEZ	54 54				
9	iP NEZ	01 21 34.0 U	38	33	4.8	1.3N 126.0E
9	iP NEZ	05 24 31.6 D	40.9	571	5.1	19.8S 178.0W
10	eP NEZ	10 10 45				
	eS NEZ	11 16.1			Local	
11	iP NEZ	10 49 51.2 D	33.5	260	5.0	4.3S 153.7E
11	eP NEZ	21 39 35.7	78.4	43	5.7	43.4N 147.4E
	e NEZ	49 24				
12	eP NEZ	00 00 15	38.3	34	6.1	1.7N 126.5E
	iP NEZ	00 18				
12	iP NEZ	00 54 49.1 U	38.5	54	4.9	1.8N 126.2E
12	iP NEZ	02 29 09.3 D	38.5	67	5.0	1.7N 126.3E
12	eP NEZ	02 35 59	38.5	52	5.2	1.7N 126.5E
12	eP NEZ	05 15 29	78.6	33	6.0	43.6N 148.0E
12	eP NEZ	06 05 44	78.8	33	5.4	43.7N 148.5E
12	eP NEZ	11 33 38.5	79	29	5.4	43.9N 148.7E
12	iP NEZ	12 28 39.0 U	38.3	30	5.8	1.7N 126.3E
12	iP NEZ	13 02 55.2 U	38.3	67	4.9	1.7N 126.2E

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION
BULLETIN FOR AUGUST 1969

<u>Date</u>	<u>Phase</u>		<u>Time</u>		<u>Δ°</u>	<u>h</u> (kms)	<u>Mag.</u>	<u>Epicentre</u>	
14	iP	NEZ	00 36 51.0	D	38.3	33	5.4	1.6N	126.3E
14	eP	NEZ	11 04 25		31.9	33	5.6	5.4S	152.0E
14	eP	NEZ	14 31 01		77.9	33	6.1	43.1N	147.5E
15	eP	NEZ	03 44 16		31.7	22	5.4	3.5S	144.4E
15	eP	NEZ	04 44 01		78	33	5.6	43.0N	147.9E
15	iP iS	NEZ NEZ	08 51 06.0 58 32	D	56.4	319	6.1	21.6N	143.0E
15	iP	NEZ	12 25 36.4	D	33.5	46	4.8	35.2S	179.8E
15	eP	NEZ	14 07 07.7						
15	eP	NEZ	19 10 40		37.5	518	5.0	23.5S	180.0W
16	eP	NEZ	15 27 28		78.3	60	5.7	43.3N	147.6E
16	eP	NEZ	17 25 56		78.3	53	5.4	43.2N	147.7E
17	eP	NZ	09 33 15						
17	iP	NZ	10 16 49.5	U	31.9	66	5.1	7.0S	155.6E
17	iP	NZ	12 06 37.6	D	77.3	130	5.6	42.7N	141.4E
17	iP	NZ	12 39 16.4	U	39	40	5.3	2.5N	126.7E
17	iP	NZ	15 10 06.5	D	39.1	42	5.3	1.3N	122.6E
17	iP	NZ	15 26 11.0	D	44.2	75	5.1	7.9N	126.7E
17	iP	NZ	16 14 40.6	D	41.5	610	4.9	18.0S	178.5W
17	eP	NZ	17 34 15		22.9	33		53.2S	158.4E
17	eP	NZ	20 33 47.5						
17	eP	NZ	20 52 00		38.5	25	4.8	1.9N	126.5E
18	eP	NEZ	01 14 48		65.9	45	4.6	56.0S	123.4W
18	eP	NEZ	05 37 05						
18	iP	NEZ	07 44 02.0	U	32.6	140	5.0	14.8S	167.3E
18	iP	NEZ	14 16 54.1	U	37.3	60	5.3	29.1S	177.6W
18	eP eS	NEZ NEZ	14 46 52.3 47 09.5				local		
18	eP i	NEZ NEZ	17 23 42 24 17.7		46.9	142	5.2	2.4S	102.2E
19	eP	NEZ	01 12 02		38.6	649	4.4	21.8S	179.7W
19	iP	NEZ	01 46 57.3	D	42.2	50	5.1	6.1S	105.3E
19	iP	NEZ	02 19 11.4	D	32	70	5.0	10.4S	161.5E
19	eP	NEZ	09 01 56		78.8	39	5.7	43.8N	148.2E

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION
BULLETIN FOR AUGUST 1969

<u>Date</u>	<u>Phase</u>		<u>Time</u>		<u>Δ°</u>	<u>h</u> (kms)	<u>Mag.</u>	<u>Epicentre</u>	
20	iP	NEZ	08 02	27.1 D	83.6	73	5.8	47.9N	153.6E
20	eP	NEZ	11 33	25	59.3	95	5.2	24.6N	141.8E
20	iP	NEZ	17 28	32.4 U	31.2	27	4.8	5.3S	149.7E
21	iP	NEZ	19 29	37.7 U	42.2	385	4.0	18.1S	177.7W
22	iP	NEZ	01 57	26.1 D					
22	eP	NEZ	15 51	23	31.6	80	5.1	7.6S	156.0E
22	iP	NEZ	17 42	29.0 U	46.2	152	4.9	16.1S	174.1W
23	iP	NEZ	02 44	08.2 D					
23	iP	NEZ	05 23	14.4 U					
23	eP	NEZ	06 51	02	74.5	33	5.2	39.8N	144.2E
23	eP	NEZ	19 16	50	74.4	33	5.2	53.5S	25.9E
24	eP	NEZ	03 27	40					
24	eP	NEZ	09 37	18					
24	eP	NEZ	10 05	20					
24	iP	NEZ	10 52	26.8 U	29.1	135	5.7	7.7S	127.5E
	eS	NEZ	58 26						
24	iP	NEZ	12 45	26.5 U	28.8	39	4.7	7.3S	148.1E
25	iP	NEZ	19 13	32.0 D	30.5	71	5.3	5.1S	131.4E
	e	NEZ	19 33						
25	iP	NEZ	21 39	23.0 U	37.7	188	5.6	0.4N	126.0E
26	iP	NEZ	01 32	25.9 D					
26	eP	NEZ	15 13	06					
26	iP	NEZ	17 04	17.9 U	31.3	59	5.6	5.8S	151.2E
26	iP	NEZ	19 19	15.0 D	30.1	88	4.9	6.1S	148.0E
26	eP	NEZ	20 36	33.2	47.1	55	5.4	15.4S	173.3W
27	iP	NEZ	04 10	36.0 D	87.1	97	5.4	57.4S	26.3W
27	iP	NEZ	13 31	02.0 D	43.9	188	5.6	4.3S	104.6E
	i	NEZ	31 43.6						
27	iP	NEZ	19 33	41.6 U	63.5	20	5.4	28.7N	143.8E
27	eP	NEZ	20 02	04	69.6	67	5.0	34.9N	141.1E
28	iP	NEZ	10 57	24.8 U					
28	eP	NEZ	14 01	19	36.2	29	5.3	31.5S	177.9W
	i	NEZ	07 03						
28	eP	NEZ	15 16	35	30.7	100		5.8S	149.3E

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION
BULLETIN FOR AUGUST 1969

<u>Date</u>	<u>Phase</u>		<u>Time</u>		<u>Δ°</u>	<u>h</u> (<u>kms</u>)	<u>Mag.</u>	<u>Epicentre</u>	
28	eP	NEZ	16 14 03						
28	eP	NEZ	16 57 01		36.2	23	5.1	31.7S	177.8W
	i	NEZ	59 25						
29	eP	NEZ	06 52 10.5		36.2	33	4.6	31.5S	177.6W
29	iP	NEZ	10 14 14.0	U	73	73	5.4	26.3N	96.1E
29	iP	NEZ	12 23 13.9	U	38.2	33	4.9	1.6N	126.5E
	i	NEZ	24 38.3						
29	iP	NEZ	15 29 09.4	U	38.7	543	5.2	5.9S	110.7E
29	iP	NEZ	15 32 45.4	D	38.7	515	5.2	5.7S	110.6E
29	iP	NEZ	17 31 49.0	U	44.2	270	4.5	17.9S	175.2W
30	eP	NEZ	01 48 53.2						
30	eP	NEZ	07 23 40.2		78.7	33	5.4	43.7N	147.8E
30	iP	NEZ	08 06 26.8	U	78.3	43	5.5	43.4N	146.5E
30	eP	NEZ	08 40 15		78.7	33	5.4	43.6N	147.8E
30	eP	NEZ	12 57 57		30.4	167	5.2	5.7S	148.3E
30	e(P)	NEZ	13 01 52.4						
31	eP	NEZ	00 02 10		31.4	30	5.1	3.4S	139.9E
31	iP	NEZ	04 15 05.1	D	37.7	19	4.9	1.1N	126.0E
31	eP	NEZ	10 05 54		88.9	43	4.3	55.2S	24.9W
31	eP	NEZ	10 58 58		31.3	207	5.0	18.8S	169.0E
31	eP	NEZ	11 51 19.5		48	52	4.9	11.8N	125.9E
31	iP	NEZ	13 13 22.0	U	45.3	64	5.5	4.5S	102.3E
31	eP	NEZ	14 57 31						
31	iP	NEZ	20 04 34.9	D	31	32	4.9	18.2S	168.1E
31	eP	NEZ	20 17 30						
31	iP	NEZ	20 55 30.0	U	4.1	400	4.5	19.8S	177.9W

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION
BULLETIN FOR SEPTEMBER 1969

<u>Date</u>	<u>Phase</u>		<u>Time</u>		Δ°	<u>h</u> (kms)	<u>Mag.</u>	<u>Epicentre</u>	
1	iP	NEZ	03 34 36.0	D	48.3	58	5.0	11.9N	125.6E
1	eP	NEZ	08 20 17		25	33	5.1	58.9S	149.1E
1	eP	NEZ	10 39 29		36.8	33	4.8	30.5S	177.6W
	e(P)	NEZ	41 50						
1	eP	NEZ	12 16 34		36.8	33	4.7	30.6S	177.5W
2	iP	NEZ	12 46 03.0	D	39.4	47	5.3	2.9N	126.7E
3	eP	NEZ	01 39 34		40.4	58	5.2	4.4N	128.4E
4	iP	NEZ	16 34 48.5	D	29.1	164	5.3	7.0S	129.2E
4	eP	NEZ	18 19 58		54.1	53	5.1	16.3N	119.6E
4	eP	NEZ	21 02 46				local		
	iS	NEZ	03 12.7						
4	eP	NEZ	21 24 38		78.3	60	5.6	43.8N	147.4E
5	eP	NEZ	11 52 17		59.6	33	5.6	22.7N	121.7E
5	eP	NEZ	14 41 39				local		
	eS	NEZ	42 12						
5	iP	NEZ	16 13 23.9	D	32.7	180	5.4	5.3S	154.0E
6	eP	NEZ	01 13 28		39.8	63	5.1	3.2N	126.5E
6	eP	NEZ	10 22 55				local		
	iS	NEZ	23 25						
6	iP	NEZ	14 56 21.0	D	31.3	15	5.8	8.8S	157.8E
6	iP	NEZ	17 14 26.2	U	31.3	10	5.8	8.9S	157.9E
6	eP	NEZ	22 15 32		31.6	233	4.9	18.7S	169.2E
7	eP	NEZ	03 12 22		31.2	33	5.6	8.9S	157.7E
7	iP	NEZ	05 07 52.0	D	38.7	217	5.0	2.8N	128.6E
7	iP	NEZ	07 06 53.9				local		
	iS	NEZ	07 18.8						
7	iP	NEZ	08 46 48.0	D	32.3	173	5.3	6.6S	155.8E
7	eP	NEZ	16 09 13		29.5	132	5.0	6.4S	130.2E
8	eP	NEZ	12 52 06		32.8	47	5.2	5.1S	153.4E
9	eP	NEZ	05 26 57		70.3	29	5.5	35.7N	137.0E
9	eP	NEZ	07 32 45						
11	eP	NEZ	19 30 17.5		37.8	51	4.5	1.2N	126.3E
12	eP	NEZ	03 22 41		44.1	134	5.1	18.6S	174.9W
12	eP	NEZ	09 10 24.5		93.4	48	6.0	51.2N	179.2W
13	eP	NEZ	00 41 01	D	37.1	579	4.9	24.5S	179.9E

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION
BULLETIN FOR SEPTEMBER 1969

<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h (kms)</u>	<u>Mag.</u>	<u>Epicentre</u>
14	iP NEZ	10 10 19.0 D	42.7	35	5.3	6.3N 125.3E
14	iP NEZ	14 34 28.1 U	38.5	600	4.7	22.1S 179.7W
14	eP NEZ	15 38 04				
14	eP NEZ	16 28 47	94.8	33	5.5	39.7N 74.9E
15	eP NEZ	04 28 17	38.7	33	5.3	2.2N 126.5E
16	iPKP NEZ	13 56 57.7 D	146.0	11	4.6	10.2N 66.8W
16	ePKP NEZ	14 48 53	120.8	0	6.2	37.3N 116.5W
	ePP NEZ	50 19				
16	eP NEZ	14 59 00				
16	iP NEZ	15 40 09.1 U	28.3	31	5.3	61.6S 154.0E
16	eP NEZ	17 44 42				
17	iP NEZ	18 51 36.3 D	66	8	6.2	31.1N 131.3E
	iS NEZ	19 00 24				
18	eP NEZ	12 03 54	31.7	50	5.4	3.2S 136.4E
	e NEZ	09 32				
19	iP NEZ	01 37 27.1 U	42.9	95	5.7	6.1N 125.4E
	e NEZ	39 38				
	iS NEZ	43 44				
	i E	46 50				
	i N	47 04				
	i NE	51 00				
19	eP NEZ	03 52 45	88.6	65	5.4	55.9S 27.8W
19	eP NEZ	12 30 17.5	38.2	600	4.7	22.5S 179.8W
20	iP NEZ	09 03 08.4 U	31.9	38	5.1	3.1S 142.0E
22	eP NEZ	01 53 45	55	17	5.3	2.9N 95.9E
22	iP NEZ	04 02 09.0 D	55	33	5.3	2.9N 95.9E
22	ePKP NEZ	14 07 41.8	149.4	33	5.7	5.0N 32.6W
24	ePKP NZ	18 23 23	160.0	33	5.8	15.2N 45.8W
25	iP NZ	07 53 13.5 D				
25	iP NZ	14 08 56.6 U	33.8	101	4.9	12.6S 166.8E
26	iP NZ	08 33 33.6 D	38.4	257	4.8	1.0N 123.8E
26	eP NZ	21 52 03.1				
	iS NZ	52 27.1			Local	
27	iP NZ	09 16 28.5	83.7	33	5.8	60.9S 56.0W
27	eP NZ	11 41 31	28.7	33	4.5	7.1S 131.0E
	e NZ	47 05				
27	iP NZ	19 21 04.9 D	38	33	5.6	9.4S 107.8E

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION

BULLETIN FOR SEPTEMBER 1969

<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h (kms)</u>	<u>Mag.</u>	<u>Epicentre</u>
27	eP NZ	20 03 25				
27	iP NZ	22 05 53.0 U				
28	iP NZ	10 24 38.0 U	40.2	78	5.0	23.8S 176.7W
28	eP NZ	18 06 02	38.5	33	5.1	1.9N 126.4E
29	eP NZ	16 09 37				
29	iP NZ	16 25 48.2 U	28.9	145	5.7	7.2S 128.8E
	eS NZ	31 27				
29	eP NZ	20 16 37	91.5	33	5.9	32.9S 19.7E
30	iP NZ	04 18 17.0 D	36.1	33	5.4	31.9S 177.9W
	i Z	20 42.0				
30	iP NZ	07 44 07.2 D				
30	eP NZ	15 02 04	46.3	33		2.8S 102.2E
30	eP NZ	17 15 16				
30	eP NZ	17 58 43.5	36	33	5.4	31.9S 178.0W



SEISMOLOGICAL BULLETIN

THE UNIVERSITY OF ADELAIDE
DEPARTMENT OF PHYSICS

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATIONADELAIDE (MOUNT BONYTHON)

Latitude: $34^{\circ} 58' 01''$
v Longitude: $138^{\circ} 42' 32''$
Height above mean sea level: 2150 ft., 655.3 metres
Foundation Sandstone

Instruments: World-wide Standard seismograph system

Benioff short period seismometers

$T_0 = 1.0$ secs. $T_g = 0.75$ secs.

Sprengnether long period seismometers

$T_0 = 30$ secs. $T_g = 100$ secs.

Nominal magnifications : S.P. 25,000

L.P. 750

SEISMOLOGICAL BULLETIN

OCTOBER - DECEMBER 1969

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION
BULLETIN FOR OCTOBER 1969

<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h</u> (kms)	<u>Mag.</u>	<u>Epicentre</u>	
1	e NEZ	05 36 36					
1	eP NZ	15 15 28					
1	ePKP Z	17 30 00	127.1	33	5.5	0.8N	85.0W
1	eP NZ	18 48 05	29.7	179	5.3	6.2S	130.4E
1	eP NZ	20 05 39	82.9	33	5.6	60.8S	19.7W
1	iP NZ	20 15 54.5	D 16.5	33	4.7	49.1S	127.2E
1	eP NZ	20 30 32					
1	iP NZ	20 37 46.2	D 38.8	33	5.2	27.3S	176.5W
2	iP NZ	04 06 55.0	U 38.9	599	4.9	21.8S	179.4W
2	iP NZ	22 13 59.5	U 45.9	68	5.3	9.8N	126.8E
2	iP NZ	22 19 14.0	U 93	1	6.5	51.4N	179.2E
3	iP NEZ	01 40 18.4	U 35.7	26	5.7	32.9S	178.0W
3	iP NEZ	11 48 23.0	U				
3	iP NEZ	15 48 01.6	U 46.2	95	5.6	3.7S	101.9E
4	eP NEZ	14 22 28	43.2	172	5.0	5.9S	103.9E
4	eP NEZ	14 26 11	43.2	88	5.1	5.7S	104.1E
5	eP NZ eS NZ	05 45 49 46 36			local		
5	iP NZ	13 17 29.7	U 39.8	550	4.6	20.9S	178.7W
5	eP Z	14 24 10					
5	iP NZ	16 42 25.6	U 44.1	33	5.4	7.1N	123.7E
5	eP NZ	20 52 47	30.9	107	5.3	21.8S	170.7E
6	iP NZ	12 57 14.5	U 52.7	59	5.6	15.0N	120.1E
6	iP NZ	21 54 41.4	D 44.3	33	5.2	7.2N	123.7E
7	iP NZ	03 55 51.0	D 42.9	15	5.2	6.1S	104.2E
7	iP NZ	22 10 20.5	D 41.6	541	4.7	18.3S	178.1W
8	eP NZ e NZ	02 26 12 31 55	31.5	33	5.1	10.1S	117.5E
8	iP NZ	22 02 41.0	D 21.6	33	5.2	55.8S	147.4E
9	eP NZ iS NZ iS NZ	07 10 58 11 39.8 11 45.0			local		

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION
BULLETIN FOR OCTOBER 1969

<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h (kms)</u>	<u>Mag.</u>	<u>Epicentre</u>
9	iP NZ i NZ iS Z iS NZ iS NZ	08 46 18.0 46 23.5 47 00.9 47 03.0 47 0.49				local
9	eP NZ iS NZ	08 58 50.6 59 33				local
9	iP NZ	17 22 28.1 D	46	58	5.4	9.7N 126.1E
10	iP NZ	04 50 49.1 D	40.2	558	4.8	20.5S 178.4W
10	eP NZ	08 17 44				
10	eP NZ	12 02 04				
10	iP NZ	13 04 31.6 U				
10	eP NZ	22 50 30	44.5	33	4.8	6.0S 101.9E
11	iP NZ	19 47 51.0 D	30.4	218	5.1	5.5S 147.1E
12	iP NZ	03 38 13.0 D	37.5	166	5.4	0.1N 123.7E
12	eP NZ	11 32 57				
12	iP NZ eS NZ	16 12 08.0 D 17 16.2	37.9	595	5.3	5.9S 112.0E
12	eP NZ	21 02 23				
13	iP NZ iS NZ	07 02 02.7 D 06 58	31.4	246	5.9	18.9S 169.3E
13	iP NZ	09 18 12.9 D	35.1	548		27.6S 179.1E
14	iPKP NZ	07 19 02.0 U	121.4	0	6.1	73.4N 54.8E
15	iP NZ	05 49 07.0 D	40.7	22	5.0	4.2N 126.3E
16	eP NZ	05 14 39				
16	iP NZ	12 10 40.4 D	45.2	153	4.8	4.3S 102.8E
17	iP NEZ	01 36 18.2 D	71.2	134	6.0	23.1N 94.7E
17	eP NEZ	11 33 19	38.7	53	5.0	2.3N 127.0E
17	iP NEZ	13 42 30.3 D	36.5	99	4.6	30.4S 178.1W
17	eP NEZ	20 42 10	38.3	110		2.4N 128.6E
18	eP NEZ	01 25 25	73.9	107	5.3	39.3N 141.4E
18	eP NEZ	06 09 22	38.5	56		2.3N 127.7E
18	eP NEZ	08 57 09	92.2	24	5.6	52.5N 173.5E

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION
BULLETIN FOR OCTOBER 1969

<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h (kms)</u>	<u>Mag.</u>	<u>Epicentre</u>
19	iP iS	NEZ NEZ	01 48 03.0 48 31.6			local
19	eP eS	NEZ NEZ	02 10 09.2 10 38.3			local
19	iP	NEZ	06 26 22.7 D	46.3	70	5.0 10.1N 126.1E
19	eP	NEZ	08 26 25			
19	iP	NEZ	11 25 29.3 D	34.2	73	4.4 11.6S 166.2E
19	iP	NEZ	12 33 50.0 U	44.1	60	5.4 7.7N 126.0E
20	eP	NEZ	01 18 47	32.1	50	4.6 5.6S 153.1E
20	ePKP	NEZ	13 31 12	142.9	55	5.1 10.8N 72.4W
21	eP	NEZ	05 19 00	28.7	2	4.8 9.1S 125.2E
22	eP	NZ	06 04 51	33.1	390	4.8 4.9S 154.2E
22	iP	NZ	07 18 33.4 D	32.6	71	5.3 4.8S 152.5E
22	iP	NZ	10 15 28.5 D	41.5	550	4.3 17.8S 178.7W
22	iP	NZ	10 47 50.5 D	41.3	620	4.6 17.7S 178.9W
22	iPKP	NZ	13 12 03.0 D	149.3	79	5.4 10.9N 62.6W
23	eP	NZ	01 52 05	88.6	95	5.3 56.1S 27.3W
23	iP	NZ	10 02 30.5 D			
24	iP	NZ	00 33 17.0 D	35.5	620	4.8 25.2S 178.4E
24	iP	NZ	11 58 37.0 D	86.5	15	5.3 24.8N 72.4E
24	iP eS	NZ NZ	21 49 56.0 U 55 32	29.1	149	5.6 7.5S 127.7E
25	eP	NZ	05 24 18	37.8	82	5.1 0.9N 125.7E
26	iP	NZ	03 07 33.1 U	41.8	80	4.8 5.5N 126.6E
26	iP	NZ	03 52 15.0 U	38.9	30	5.3 27.0S 176.5W
26	iP	NZ	06 46 16.3 U	46.2	127	5.8 16.2S 173.9W
26	iP	NZ	21 51 05.1 U	75.7	33	5.9 53.4S 23.5E
27	eP e	NZ NZ	11 42 41 46 34.5			
27	eP	NZ	12 27 51			
29	iP	NZ	16 47 18.7 D	38.1	93	5.0 1.5N 126.2E
29	eP	NZ	18 48 09			

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION

BULLETIN FOR OCTOBER 1969

<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h (kms)</u>	<u>Mag.</u>	<u>Epicentre</u>	
30	eP e	NZ NZ	10 48 19.5 54 20	29.2	138	4.5	7.6S 127.8E
30	iP	NZ	18 45 54.5 D	32.5	33	5.2	2.5S 143.5E
31	eP	NZ	04 36 23	32.6	19	4.9	2.5S 143.5E
31	eP e	NZ NZ	07 34 57 41 15	36.2	56	5.1	17.3S 174.2E
31	eP	NZ	11 46 17	93.6	49	6.0	51.3N 179.0W

UNIVERSITY OF ADELAIDE SEISMOGRAPH STATION
BULLETIN FOR NOVEMBER 1969

<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h (kms)</u>	<u>Mag.</u>	<u>Epicentre</u>
1	iP NZ	21 13 42.5	31.4	36	5.3	3.7S 143.2E
2	eP NEZ	14 50 33				
2	iP NEZ	19 00 41.5 D	40.6	57	5.4	6.5S 107.1E
2	iP NEZ	20 01 32.0 D	40.6	63	5.2	6.6S 107.0E
2	eP NEZ	22 58 56	37.9	67	5.2	0.9N 125.2E
3	eP NEZ	03 34 06.2	16.0	33	5.2	45.8S 123.2E
3	eP NEZ	10 54 15	36.6	123	5.1	29.8S 178.2W
3	eP NEZ	13 29 17	57.9	33	4.6	20.5N 120.4E
4	eP NEZ	22 11 20	37	33	5.4	0.1S 125.0E
7	iP NZ	04 38 46.9 U	42	52	5.8	6.3S 105.3E
7	eP NZ	06 46 35				
7	iP NZ	09 20 55.6 U	43.1	91		6.6N 125.8E
7	iP NZ	13 51 25.0 U	62.4	123	5.3	26.6N 126.3E
7	eP NZ	17 33 53.8				local
	iS NZ	34 02.0				
7	iP NZ	18 31 18.4 U	33.3	186	4.9	4.0S 152.3E
7	eP NZ	18 47 30.5	97	35	6.1	27.9N 60.1E
7	eP NZ	19 04 13				
8	eP NZ	01 23 51	55.2	65	4.9	20.0N 147.1E
8	iP NZ	01 48 06.0 U	31.9	23	5.7	16.2S 167.5E
8	eP NZ	02 07 35				
8	eP NZ	22 01 46	35.5	18	4.7	1.1S 127.0E
	e NEZ	07 40				
8	eP NZ	22 30 12	35.3	33	4.9	1.1S 126.9E
8	iP NZ	23 32 53.0 D	35.5	55	5.3	1.0S 127.0E
9	eP NZ	01 16 23	35.5	19	5.2	1.0S 127.1E
9	eP NZ	01 29 02	35.3	69	5.2	1.2S 126.9E
9	eP NZ	04 24 13				local
	eS NZ	24 40				
9	eP NZ	09 14 02	32	185	5.3	16.3S 167.9E
10	iP NZ	05 43 20.0 D	32.3	15	5.0	2.5S 139.8E
10	eP NZ	15 48 57	29.4	40	5.3	5.6S 142.0E
11	iP NZ	15 30 15.4 U	31.4	73	5.3	5.7S 151.4E
11	eP NZ	16 15 24.5	53.6	30	4.3	15.7N 119.3E

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<u>Date</u>	<u>Phase</u>		<u>Time</u>	<u>Δ°</u>	<u>h</u> <u>(kms)</u>	<u>Mag.</u>	<u>Epicentre</u>	
12	eP	NZ	15 46 21	30.3	82	5.0	6.0S	148.8E
13	iP	NZ	05 04 58.6 D	37.3	540	5.0	23.7S	179.9E
13	iP	NZ	20 44 25.5 D					
14	iP	NZ	07 45 23.6 D	42.7	209	5.5	19.7S	175.9W
14	eP	NZ	19 49 03					
	e(T)	NZ	20 04 38					
15	eP	NZ	00 15 12.1					
	iS	NZ	15 43.0					local
	iS	NZ	15 48.1					
15	eP	NZ	02 24 51.2					
15	eP	NZ	03 28 29					
15	iP	NZ	12 42 12.4 D					
15	iP	NZ	22 18 36.0 D	60.1	160	4.8	25.4N	140.6E
16	iP	NZ	05 50 23.9 U	32	63	5.0	6.5S	155.0E
16	eP	NZ	20 15 15	29.9	62	4.9	6.2S	147.9E
17	eP	NEZ	05 29 09	46.3	82	5.1	10.0N	125.9E
	eP	NEZ	29 19					
19	eP	NEZ	13 20 57.5	52.4	33	5.3	0.9N	97.8E
20	iP	NEZ	03 47 08.2 D	31.2	630	5.0	7.0S	123.4E
	e	NEZ	51 37					
20	eP	NEZ	09 57 16	35.2	68	4.9	1.4S	126.7E
20	iP	NEZ	10 57 52.5 U	33	46	4.9	3.1S	129.1E
20	iP	NEZ	13 15 51.4 D					
21	iP	NEZ	02 15 09.0 D	55.2	20	6.4	2.1N	94.6E
22	iP	NEZ	05 07 51.2 D	37.8	65	5.2	28.2S	177.2N
22	eP	NEZ	08 41 47	31.8	33		2.9S	139.2E
22	eP	NEZ	12 11 30					
22	iP	NEZ	15 08 01.8 U	29.7	330	5.3	6.9S	127.4E
22	iP	NEZ	23 22 56.9 D	94.8	33	6.3	57.8N	163.5E
23	iP	NEZ	09 01 11.6 D	32.1	59	5.3	10.4S	161.5E
24	eP	NEZ	13 51 50					
24	eP	NEZ	17 36 35	95	123	5.6	37.2N	71.7E
24	ePKP	NEZ	21 34 06.5	152.0	33	5.0	60.6N	58.8N

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<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h (kms)</u>	<u>Mag.</u>	<u>Epicentre</u>	
24	iP eS	NEZ NEZ	21 38 17.0 D 43 49.6	41.7	593	5.4	18.0S 178.4W
24	eP	NEZ	22 01 01	41.6	570	4.5	18.2S 178.1W
25	iP	NEZ	01 39 53.0 D	41.7	587	4.6	18.0S 178.4W
25	iP	NEZ	04 54 47.9 D	36.5	30	5.0	30.5S 177.9W
25	eP	NEZ	21 57 21.8	31.3	52	5.2	3.5S 138.5E
26	eP	NZ	12 50 25	31.5	33	5.4	16.8S 167.7E
26	eP	NZ	14 33 45	31.5	34	5.3	16.8S 167.8E
26	eP	NZ	18 38 45.5	85.6	33	5.4	58.8S 24.7W
28	eP iS	NZ NZ	03 38 17.7 38 55.1				local
28	iP i	NZ NZ	13 53 05.0 D 58 37.2	29.0	75	5.6	6.9S 129.7E
29	eP e	NZ NZ	04 23 34 29 16	29.1	82	5.4	7.4S 128.2E
29	iP	NZ	10 44 13.7 U				
29	iP	NZ	16 54 12.9 U	68.2	48	5.1	33.3N 132.3E
29	iP	NZ	18 36 24.1 D	38.7	101	5.2	2.2N 126.5E
29	eP	NZ	20 41 12	43.9	424	4.6	16.5S 176.6W
30	eP e	NZ NZ	02 51 04 56 39				
30	iP	NZ	03 40 38.2 D	41.5	617	4.5	17.9S 178.6W
30	eP	NZ	03 46 43	99.6	0	6.0	49.9N 79.0E
30	iP	NZ	04 23 18.0 D	68.0	49	4.9	33.2N 132.4E
30	eP iS	NZ NZ	09 03 19.5 03 48.9				local
30	eP	NZ	20 07 42	29.5	44		7.1S 128.0E

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<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h (kms)</u>	<u>Mag.</u>	<u>Epicentre</u>
1	iP NZ	02 23 42.0 D	41.7	600	4.9	18.4S 178.0W
2	iP NZ	17 35 03.6 D	47.9	110	5.0	13.1N 143.9E
2	iP NZ iS NEZ	18 05 08.0 U 11 32	44.5	102	5.7	8.2N 126.3E
4	P NZ	00 45 28.6 D	63.5	33	5.3	12.4N 93.7E
4	iP NZ	03 11 27.5 D	46.9	33	5.3	12.1N 143.6E
4	eP NZ	03 18 28.5				
4	eP NZ	09 02 07	75.5	20	5.7	40.7N 144.7E
4	iP NZ	11 42 45.3 U	47.9	190	4.6	13.1N 143.3E
6	iP NZ	15 06 38.2 D	85.7	33	5.3	58.7S 25.1W
7	eP NEZ	04 01 47	31.2	49	5.2	18.1S 168.2E
7	iP NEZ eS NEZ	17 38 39.6 D 44 35				
7	iP NEZ	21 54 36.5 D	46	51	5.2	9.6N 125.6E
8	iP NZ	05 11 30.0 U	38	101	5.5	1.7N 127.3E
8	iP NZ	09 44 38.2 U	37.9	194	5.1	0.1S 122.8E
8	iP NZ	10 22 28.0 D	37.6	553	4.6	23.5S 179.9W
8	iP NZ	14 50 52.1 U	52.7	41	4.8	1.8N 98.2E
9	iP NZ	03 32 58.4 D	37.7	99	5.1	0.9N 126.2E
10	iP NZ	00 17 08.0	33.3	33	4.9	2.7S 129.2E
10	eP NZ iS NEZ	20 00 32.5 05 46	32.4	21	5.4	14.8S 167.0E
10	iP NZ	23 48 48.8 U	32.7	85	4.8	8.8S 160.2E
11	eP NZ	05 16 23	43.9	465	4.3	15.3S 177.4W
11	iP NZ	07 39 01.5				
13	iP NZ	04 11 10.7 U	37.9	56	5.3	1.3N 126.4E
13	iP NZ	21 47 11.2 U	59.7	20	5.4	23.9N 126.5E
13	iP NZ	22 14 35.1 D	40.7	42	5.6	4.2N 126.3E
14	iP NZ	02 49 28.6 U	38.4	42	6.0	2.0N 126.9E
14	eP NZ	03 49 38				
14	eP NZ	18 49 53.1	86.7	33	6.0	8.2N 58.5E
14	eP NZ	19 26 08	43.5	600	4.6	6.4N 123.6E

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<u>Date</u>	<u>Phase</u>	<u>Time</u>	<u>Δ°</u>	<u>h (kms)</u>	<u>Mag.</u>	<u>Epicentre</u>
15	eP NZ	08 43 00.5	29.1	40	4.9	7.1S 129.3E
	Readings for 17th too difficult - No Z and NS blurry					
18	iP NZ	01 43 05.5 D	41.3	582	4.6	19.6S 177.7W
18	eP NZ	06 17 20	39.1	49	4.9	27.0S 176.3W
18	eP NZ	13 43 43	81	344	5.9	46.3N 142.5E
18	iP NZ	18 33 57.9 U	43.3	47	5.2	5.7S 104.0E
19	iP NZ	00 21 06.0 U	30.7	535		6.9S 124.8E
20	iP NZ	11 39 56.1 D				
20	iP NZ	13 11 12.6 D	29	180	5.3	7.2S 129.2E
	e NZ	16 50				
21	eP NZ	00 36 27	35.9	268	4.9	29.7S 179.1W
21	iP NZ	03 17 43.0 U				
21	iP NZ	10 28 29.9 U	63.3	28	5.6	28.2N 130.6E
21	iP NZ	15 18 32.0 U	39.8	221	5.0	6.5S 108.3E
23	iP NZ	14 16 55.8 U	51.4	118	5.3	13.8N 120.6E
	ipP NZ	17 20.7				
25	eP NZ	15 40 42				
25	iP NZ	16 28 43.6	30.9	124	4.8	21.2S 170.2E
25	ePKP NZ	21 52 25.4	154.8	7	6.4	15.8N 59.7W
25	ePKP NZ	22 50 58	154.9	8	6.0	16.1N 59.8W
26	iP NZ	15 09 37.0 D	49	136	4.5	14.0N 144.3E
27	iP NZ	03 06 05.4 U	50.3	33	5.0	13.9N 125.2E
27	eP NZ	09 17 33	30.7	33	5.1	10.0S 118.9E
27	eP NZ	11 28 56.5				
30	iP NZ	11 24 37.1 D	37.4	88	5.2	0.1S 124.1E
31	iP NZ	16 40 20.2 D				
31	iP NZ	19 12 25.7 D	63.8	44	5.9	28.5N 129.1E
31	iP NZ	23 44 54.9 D	33.9	483	5.3	7.0S 117.8E