CANBERRA no 302

AUSTRALIAN NATIONAL UNIVERSITY DEPARTMENT OF GEOPHYSICS
PROVISIONAL SEISMIC BULLETIN
OCTOBER, 1958

Latitude: 35° 19' 15" S. Longitude: 148° 59' 55" E. Height: 650 M.

Instruments: Benioff variable reluctance seismographs, three components, 0.25 second galvanometers (V,N,E); 70 second galvanometers (V_1,N_1,E_1).

No.	Date	Time	Phase	Remarks
2	Oct. 2	02 57 54.0	iP VN	Compression
		57 55.0	iP E	
3	2	04 38 03.5	iP V	
		38 05.0	iP N	
		38 53.0	i VN	
		38 56.0	i E	
		05 13.1	eL V_1N_1	
4	2	15 09 37.0	iP VNE	Compression
		09 49.0	ipP VNE	
		10 17.1	i VN	
5	3	00 42 49.0	e VN	
6	3	01 36 59.5	e VN	
		37 22.5	i N	
7	3	12 07 34.0	i V	
(A)	3	19 44 31.0	iP V	Δ = 80 km. approx.
		44 40.0	iS EN	34.7° S., 149.4° E.
		44 43.0	i V_1N_1	
		44 44.5	i V	
(B)	3	21 35 35.0	iP VN	Δ = 64 km. approx.
		35 42.5	iS VNE	
8	4	00 55 51.0	eP VN	
		58 18.0	i VN	
9	4	05 59 07.5	iP N	Compression
		59 08.5	iP V	
		59 10.0	eP E	
10	4	10 01 21.5	iP VN	Compression
		01 25.2	eP E	
		01 49.5	i VNE	
11	4	11 43 01.5	iP VN	Rarefaction
12	4	14 28 45.0	iP VNE	Compression
		28 49.5	i NE	
13	4	15 18 20.0	iP VN	Compression
14	4	18 15 23.5	iP VN	Compression
		15 25.0	eP E	
15	4	23 45 10.5	iP VN	Compression
		45 40.5	i V	

No.	Date	Time	Phase	Remarks
16	Oct. 5	06 16 24.0	iP V	Rarefaction
		16 26.5	eP N	
17	5	15 35 27.0	eP V	
18	7	01 46 09.0	i V	Rarefaction
19	7	12 38 50.5	iP VE	Rarefaction
		38 53.5	iP N	
		42 03.0	i VE	
		42 05.0	i N	
		43 39.0	i E	
		43 41.5	i V	
		45 24.0	e(S) N	
		45 26.5	e(S) E	
		46 55.0	i VN	
		49.3	eL V_1	
20	8	07 59 06.5	i VNE	Compression
21	8	08 42 55.5	i VNE	Rarefaction
22	8	15 16.6	eL V_1N_1	
23	8	16 06 48.5	iP VNE	Compression
24	9	03 06 42.5	iP VNE	Compression
25	8	11 33 15.0	iP VN	Rarefaction
(D)	9	19 49 25.0	iP V	37.1°S., 146.5°E.
		49 32.0	i VN	Δ = 295 km.
		50 04.5	i V	
		50 06.5	iS VN	
26	10	04 14 07.5	i VN	
		14 30.0	i VN	
27	10	08 43 14.5	iP VN	Rarefaction
28	10	11 43 45.5	iP VN	Compression
		44 05.5	isP VN	
29	12	09 51 36.0	iP VNE	Compression
30	12	12 54 03.5	iP VN	Compression
		54 06.0	iP E	
31	12	15 29 11.5	iP $VNEV_1N_1$	Rarefaction
		30 08.5	ipP NV_1N_1	
		30 09.5	ipP V	
32	13	05 33 16.5	iP VNE	Rarefaction
(E)	14	21 00 14.0	iP VNE	35.2°S., 150.3°E.
		00 28.0	iS VNE	Δ = 122 km.
33	15	11 37 19.5	iP VE	Compression
34	15	17 08 44.5	eP VE	
35	15	18 54 12.5	iP V	Rarefaction

No.	Date	Time	Phase	Remarks
36	Oct. 16	01 22 55.0	iP V	Compression
37	16	05 44 26.5	e VNE	
38	16	18 (7 57.5	iP VNE	Rarefaction
39	16	22 59 27.5	i V	Rarefaction
40	17	02 42 38.5	iP VN	Rarefaction
41	17	10 30 02.0	iP VNE	Rarefaction
42	19	02 01 14.5	iP VE	Compression
		01 29.5	ipP VE	
43	19	01 21 23.0	i V	
		21 30.5	i V	
44	19	11 48 28.0	iP VNE	Compression
		49 29.0	iPPP VNE	
		50 14.0	i NE	
		53 01.5	i(S) E_1	
		56.1	eL $V_1N_1E_1$	
45	20	01 20 28.0	iP V	Rarefaction
		20 29.5	iP E	$\Delta = 42^o$, 0 = 01 12 50
		20 34.0	i V	
		20 50.5	ipP VEE_1	
		22 37.5	iPP V	
		22 38.5	iPP $NV_1N_1E_1$	
		26 05.0	iS_cP VN_1	
		26 37.5	iS_c NE_1	
		31 57.0	i NEV_1	
46	20	03 04 51.0	iP VNE	Compression
(H)	20	05 38 46.5	iP VNE	Δ = 148 km. approx.
		38 58.0	i N	
		39 00.0	i VNE	
		39 02.5	i(S) VNE	
		39 11.0	i V	
48	21	06 21 03.0	iP $VNEV_1N_1E_1$	Rarefaction
		21 22.0	i V	$\Delta = 29^o$
		21 33.5	ipP V	0 = 06 15 12
		21 45.0	i N	
		24 01.5	i(P_cP)V	
		25 46.0	iS_c E_1	
		25 52.0	iS N_1	
		26 48.0	i V	
		27 28.5	iSS V	
		28 50.0	i NV_1N_1	
		30 58.0	i V_1	
49	21	15 48 38.5	iP VNE	Compression
		48 41.5	i $VNEV_1$	
		48 48.5	ipP VN	
50	21	17 38 42.5	iP VNE	Compression
		39 53.0	iPPP VE	

No.	Date	Time	Phase	Remarks
(I)	Oct.22	01 59 52.0	iP VNE	Δ = 13 km.
		59 54.5	iS VNE	
		59 56.5	i V	
		02 00 01.0	i V	
51	22	19 22 33.0	iP VNE	Compression
52	22	23 48 29.5	iP $VNEV_1N_1$	Compression
		49 19.5	iPP VNE	
		50 55.0	i VN	
		53 49.0	i VN	
		55 20.6	i E_1	
53	23	16 52 46.1	i V	
54	23	17 54 42.8	i E	
		54 52.5	i VN	
		55 12.5	i E	
55	24	15 06 02.0	iP E	
		06 10.0	i N	
		06 12.0	i V	
56	24	20 20 59.0	iP VNE	Compression
		21 15.5	i VNE	
		21 35.5	i VN	
57	25	20 59 11.0	iP VNE	Compression
58	26	02 26 35.0	iP V	Rarefaction
		26 36.0	iP N	
		26 37.5	iP E	
		26 44.5	ipP VNE	
59	27	10 59 27.0	iP $VNEV_1$	Compression
		59 23.0	i V	
		11 37.8	eL V_1	
60	29	07 57 14.0	iP VN	
(J)	30	05 57 59.0	eiP VNE	Δ = 190 km. approx.
		58 20.5	iS	
61	30	10 11 50.5	iP VE	Compression
62	31	19 09 25.5	e VNE	Compression
		18 06.0	i E_1	
		19.7	eL E_1	
		20.9	eL V_1	
		21.0	eL N_1	
63	31	23 50 00.0	iP VNE	Rarefaction
		50 30.5	i VE	

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NOVEMBER, 1958

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Instruments: Benioff variable reluctance seismographs, three components: T_g = 0.25 sec. (V,N,E); T_g = 70 sec. ($V_1N_1E_1$).

No.	Date	Time	Phase		Remarks
	Nov. 1				No minute marks
1	2	08 04 31.5	i	VN	Compression
2	3	00 00 27.0	e	V	Rarefaction
3	4	00 30 26.0	iP	VNE	Compression
		30 33.0	ipP	V	Origin: 00 24 24
		33 31.0	iPP	V	(USCGS)
4	4	02 03 30.5	i	VN	Compression
5	4	08 38 49.0	iP	VNE	Rarefaction
		41 30.5	i	VNE	
		41 39.5	i	VNE	
6	4	20 01 12.5	iP	VNE	Compression
		01 28.0	ipP	VE	Origin: 19 55 11
		02 31.5	iPP	V	(USCGS)
7	4	23 40 14.0	iP	VNE	Compression
		40 23.5	ipP	VE	Origin: 23 34 50
		40 27.5	i	VE	(USCGS)
		42 55.5	iPP	V	
					No time corrections, 0700 Nov. 6 to 0000 Nov. 10.
21	12	10 45 42.0	iP	VNE	Compression
22	12	18 20 24.0	iP	VE	Compression
23	12	20 35 36.0	iP	VNV_1N_1	Rarefaction
		35 50.0	iPcP	VV_1	Origin: 20 23 26
		40 30.5	iPPP	V_1	(USCGS)
		45 33.5	eS	N_1	
		45 36.5	iS	E_1	
		45 59.0	iScS	N_1E_1	
		46 09.1	i	E_1	
		46 24.0	iPS	N_1E_1	
		46 36.0	iPPS	$V_1N_1E_1$	
		50 28.0	iSS	E	
		53 58.0	iSSS	E_1	
		56.4	L_Q	E_1	
		58.6	M^Q	E_1	
		21 00.1	L_R	E_1	
24	13	04 16 46.0	iP	VN	Rarefaction
		16 59.5	iPcP	V	Origin: 04 04 42
		17 47.5	i	VN	
		18 18.0	i	N	
		20 06.0	i(S)	V	
(A)	13	04 45 34.5	iP	VNE	Δ = 125 km.
		45 57.0	iS	VNE	

No.	Date	Time	Phase		Remarks
25	Nov. 13	05 09 49.5	e	VNE	
26	13	16 27 28.5	iP	VNE	Rarefaction Origin: 16 16 25 (USCGS)
27	14	03 30 02.5	iP	VN	Rarefaction
28	14	05 16 49.5	eP	V	Origin: 05 04 25 (USCGS)
29	14	05 47 01.0	iP	VN	Rarefaction
30	14	13 54 59.5	iP	all	Origin: 13 48 28
		57 07.0	i	V_1	
		14 01 42.5	iS	E_1	
		06.6	M	E_1	
31	15	02 16 40.5	i	VN	Compression
(B)	15	04 25 52.0	e	VN	Quarry blast
32	15	04 29 26.0	iP	VNE	Compression
33	15	06 02 04.5	i	V	Compression
34	16	05 48 40.0	i	VN	Compression
35	16	17 52 27.0	iP	NE	Compression
		52 26.0	ipP	E	Origin: 17 44 48 (USCGS)
		54 03.5	iPP	N	
		54 29.0	iPcP	N	
36	16	18 07 40.0	iP	NE	Compression Origin: 18 02 25 (USCGS)
37	17	09 52 22.0	iP	$NEV_1N_1E_1$	Compression
		52 28.0	ipP	NV_1	Origin: 09 46 30 (USCGS)
		53 15.0	iPP	VE_1	
		55 41.0	iPcP	VV_1	
		57 16.0	iS	EE_1	
		58 40.0	eSS	EE_1	
		10 03 13.0	ScS	E_1	
38	17	16 26 07.5	i	NE	Rarefaction
39	17	18 50 04.5	eP	$NEV_1N_1E_1$	Origin: 18 44 49 (USCGS)
		54 21.0	e(S)	EE_1	
(C)	18	06 52 28.8	iP	VNE	Δ = 192 km.
		52 51.0	iS	VNE	
40	18	07 58 25.5	eP	V	Origin: 07 45 20 (USCGS)
41	18	16 44 58.0	iP	VN	Compression
		45 29.5	i	VN	
42	19	03 59 41.5	iP	VNE	Compression
		59 45.0	ipP	VE	Origin: 03 53 56 (USCGS)
		04 00 38.0	iPP	V	
		00 49.0	iPPP	V	
		02 56.0	iPcP	V	
		06 00.0	iScS	V	
43	19	07 40 28.5	iP	V	
44	19	09 35 56.0	i	V	Compression Origin: 09 23 45 (USCGS)

No.	Date	Time	Phase		Remarks
45	19	19 37 11.5	iP	VNE	Compression Origin: 19 30 18 (USCGS)
46	20	06 00 01.5	iP	VNE	Rarefaction
(D)	20	06 30 41.0	eP	VNE	Distant local
47	20	14 30 11.0	eP	V	Compression
		30 20.0	i	V	Origin: 14 18 04
		30 25.0	i	V	(USCGS)
48	21	15 30 11.5	iP	V	Compression
(E)	21	19 40 17.5	iP	VNE	Δ = 74 km.
		40 26.0	iS		
		40 30.2	i(L_g)	VN	
49	21	22 15 06.0	i	VNE	
50	22	00 12 08.5	iP	$VNEV_1E_1$	Compression
		12 13.0	ipP	VV_1	Origin: 00 04 20
		13 48.0	iPP	VNE	(USCGS)
		14 15.0	iPPP	V	
		18 25.0	eS	$V_1N_1E_1$	
		26.5	eL	$V_1N_1E_1$	
51	22	00 46 01.0	i	VN	Compression
52	22	02 03 50.0	iP	all	Rarefaction
		09 16.0	iS	NEN_1E_1	Origin: 01 56 56
		09 44.5	i	all	
		12 40.0	i	NE	
53	22	07 03 52.5	iP	VNE	Compression
54	22	13 55 49.0	i	VN	Compression
		55 50.5	i	V	
55	23	02 02 39.5	iP	VN	Compression
		02 53.5	i	VNE	
56	23	02 54 04.5	iP	VNE	Compression
57	24	07 01 25.0	iP	VNE	Compression
		01 43.5	i	V	
58	24	17 51 08.0	iP	VNE	Compression
59	24	22 16 07.0	e	VE	
60	24	22 46 40.5	iP	VE	Compression
		46 42.0	ipP	VN	
		46 44.0	i	E	
(F)	25	01 31 18.5	i	VNE	Distant local
		32 28.0	i	VNE	
		33 02.5	i	VN	
		33 15.5	i	VN	
61	25	02 52 01.5	iP	V	Rarefaction
(G)	25	03 00 54.5	iP	VNE	Distant local
		01 01.0	i	VNE	
		01 05.5	i	VNE	
62	25	03 21 03.5	iP	VNE	Compression
63	25	03 36 44.0	iP	V	Compression
64	26	00 25 00.0	iP	VE	Rarefaction
65	26	02 06 06.0	eP	VNE	
		06 13.0	i	VNE	
		06 17.5	i	VN	

No.	Date	Time	Phase		Remarks
(H)	26	05 16 06.0	iP	VNE	Δ = 16 km.
		16 08.0	iS	VN	
(I)	29	03 09 45.0	eP	VNE	Distant local
		10 17.0	i	E	
		10 19.0	i	VN	
66	29	04 52 43.0	iP	VNE	Compression
		53 32.0	i	V	
67	30	01 43 41.0	iP	VNE	
		43 49.5	ipP	VN	
68	30	02 06 34.0	iP	VN	Compression

J.C. JAEGER,

Professor of Geophysics.

Seismograms read by

Katrine Urquhart.

AUSTRALIAN NATIONAL UNIVERSITY DEPARTMENT OF GEOPHYSICS.
PROVISIONAL SEISMIC BULLETIN
DECEMBER, 1958.

Latitude: 35° 19' 15" S. Longitude: 148° 59' 55" E. Height: 650 M.

Instruments: Benioff variable reluctance seismographs, three components: T_g = 0.25 sec. (V,N,E); T_g = 70 sec. ($V_1N_1E_1$).

No.	Date	Time	Phase		Remarks
1	Dec. 1	08 34 41.0	iP	VN	Compression
2	1.	10 41 59.5	e	VE	
3	1.	11 57 19.0	iP	VE	Rarefaction
4	2.	20 38 46.0	eP	VN	
5	2.	21 22 12.5	iP	VN	Rarefaction
6	3.	06 21 38.0	i	V	
7	3.	09 58 02.0	eP	VN	Origin: 09 48 26
		58 38.0	i	VNE	(USCGS)
8	3.	11 18 53.0	iP	V	Rarefaction
9	3.	16 10 46.0	iP	VN	Rarefaction
		11 14.0	i	V	Origin: 16 00 58
		12 22.5	i	N	(USCGS)
10	3.	20 40 15.0	iP	VNE	Compression
11	4.	12 36 07.0	iP	VNE	Rarefaction
12	5.	05 45 49.0	iP	VNE	Local. Compression
		46 02.0			
13	7.	01 54 16.0	eP	V	
14	7.	02 54 06.0	iP	VNE	Compression
		54 11.0	ipP	VN	Origin: 02 46 38
		54 47.0	i	VN	(USCGS)
		55 46.5	ePP	V	
		56 19.0	iPPP	V	
15	7.	06 28 23.0	i	VN	Rarefaction
					Origin: 06 21 46 (USCGS)
16	7.	11 22 19.0	e	VN	
		22 20.0	i	VNE	
17	8.	03 15 50.5	iP	VNE	Compression
		19 03.5	i(PcP)	V	Origin: 03 10 17 (USCGS)
18	8.	12 20 35.0	iP	V	Rarefaction
		20 49.0	ipP	VNE	Origin: 12 08 23 (USCGS)
		31.5	eL	V_1E_1	
19	9.	00 47 08.0	iP	VNE	Rarefaction
		47 21.0	i	V	Origin: 00 40 05
		48 40.5	iPP	V	(USCGS)
		01 08.8	eL	V_1E_1	
20	9.	01 20 14.0	i	V	
21	9.	02 55.2	eL	V_1E_1	
22	9.	08 08 10.0	iP	VE	Compression

No.	Date	Time	Phase		Remarks.
	Dec. 9.	08 13.0	i	N	Origin: 08 00 30
		09 49.0	iPP	VN	(USCGS)
		10 16.5	iPcP	V	
		10 19.5	iPPP	V	
23	9.	12 23 26.0	iP	V	Rarefaction
		23 35.0	ipP	NE	
		24 13.0	iPP	V	
24	10.	06 15 30.5	iP	VNE	Compression Local
25	10.	07 07 43.0	iP	VNE.V_1N_1	Compression
		07 57.0	i	V_1	Origin: 07 02 59
		08 35.5	ipP	V_1	New Zealand.
		09 10.5	iPPP	V_1	(USCGS)
		11 31.5	i (PcP)	V_1	
		11 37.5	i	N_1	
		11 48.0	iS	VNE V_1	
		13 10.0	i	N_1	
		13 22.5	iSS	N_1	
26	10.	14 47 08.5	iP	VNE	Compression
		48 09.5	ipP	VN	Origin: 14 39 00
		48 42.5	i	V	(USCGS)
27	12.	05 42 43.0	iP	VNE	Compression
28	12.	22 38 41.5	iP	VE	Compression
29	13.	09 12 14.5	iP	VN	Rarefaction
30	13.	09 20 29.0	iP	VN	Rarefaction
		20 28.5	ipP	V	Origin: 09 07 30
					(USCGS)
31	14.	07 23 38.0	iP	VE	Compression
		23 41.5	e	N	Origin: 07 11 28
		23 45.0	ipP	V	(U SCGS)
32	14.	08 16 49.0	iP	VN	
33	15.	11 46 25.0	iP	VN	Rarefaction
		46 35.0	ipP	V	
34	16.	03 24 44.0	iP	VNE	Rarefaction
35	17.	20 40 01.5	iP	VN	Rarefaction
		40 16.0	ipP	V	
36	18.	01 44 34.5	iP	VN	Rarefaction
		44 41.0	ipP	VN	
37	18.	01 57 29.0	iP	VN	Local
		57 31.0	iS	VN	
38	18.	05 10 40.0	iP	VN	
39	18.	05 17 18.0	iP	VN	
40	18.	07 25 27.5	iP	V	

No.	Date	Time	Phase		Remarks.
41.	Dec 18.	07 36 02.0	iP	V	Rarefaction
42	18.	13 22 08.0	i	V	
43	18.	19 31 20.5	iP	VN	
		31 24.0	i	V	
		31 31.5	ipP	V	
		33 01.0	iPP	V	
44	18.	21 20 19.5	e	VN	
45	19.	04 28 20.5	iP	VN	
46	19.	11 04 31.0	i	V	
47	20.	19 31 39.5	iP	VN	Compression
					Origin: 19 20 48(USCGS)
48	20.	21 20 22.5	iP	VN	Rarefaction
		23 17.0	iPP	VN	Origin: 21 12 50(USCGS)
49	21.	16 57 36.0	iP	V	Rarefaction
50	21.	18 25 58.0	iP	VN	Compression
		26 01.0	i	VN	
		26 10.0	i	VN	
51	21.	19 40 23.0	e	V	
52	22.	05 26 32.0	iP	V	Local
53	22.	08 02 23.5	iP	V	Compression
54	22.	08 32 15.0	i	V	Rarefaction
55	24.	01 19 14.0	iP	V	
56	24.	10 53 53.0	i	V	Compression
57	24.	20 40 44.0	iP	VN	Rarefaction
		41 04.0	i	V	
58	24.	22 16 21.0	iP	VN	Rarefaction
59	25.	08 11 44.0	iP	VN	Compression
		12 15.5	ipP	V	
		12 57.0	iPP	V	
		13 16.0	iPPP	V	
60	25.	14 41 25.0	iP	VN	
61	26.	05 56 37.0	iP	V	Compression
		56 38.0	i	VN	Origin: 05 51 04
		58 14.0	ipP	V	(USCGS)
62	26.	22 42 54.5	i	VN	
63	27.	03 06 15.0	eiP	VN	Local
		06 19.0	iS	VN	
64	27.	10 57 48.0	iP	VN	
65	28.	05 47 49.0	iP	VN	
		48 22.5	i	V	
66	28.	06 50 55.0	iP	VN	Rarefaction
67	28.	06 56 43.0	iP	VN	

No.	Date	Time	Phase		Remarks.
68	Dec 28.	13 29 28.0	iP	VN	Rarefaction
69	29.	22 48 34.0	iP	VN	Rarefaction
		49 25.0	i	V	Origin: 22 38 42 (USCGS)
70	30.	08 50 13.0	iP	VN	Rarefaction
					Origin: 08 37 56(USCGS)
71	30.	16 12 51.0	iP	VN	Rarefaction
72	31.	01 51 39.5	iP	VN	Rarefaction

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