

University of Tasmania

Geology Department

FORT NELSON SEISMOLOGICAL STATION

Provisional Bulletin

Address: The Professor of Geology, University of Tasmania, Box 647c,
Hobart, Tasmania.

Vault location: Fort Nelson, latitude $42^{\circ}55'35''S$, longitude
 $147^{\circ}21'10''E$, altitude 209 m.

Foundation: Jurassic dolerite

Instruments: (interim installation pending permanent base equipment).
Sprengnether Series H horizontal pendulum EW, $6\frac{1}{2}$ secs.
Willmore short period vertical.

Limitations: This station is only in process of establishment.
Inexperienced operators are in training. Chronometer at present
only read to half second. Improved installation proposed.

No.	Date 1957	Phase		Time (G.M.T.)			Remarks
				h.	m.	s.	
1.	November 3	iP	E	00	35	11	$\Delta 36^{\circ}$ H 00 28 30 h 0.03
		ipP	E	00	36	00	
		iS	E	00	40	33	
		iSS	E	00	41	36	
		i	E	00	43	59	
2.	8	iPP	Z	02	53	38	Rerefraction $\Delta 35.5^{\circ}$ H 02 46 22
		i	Z	02	53	47	
		i	Z	02	54	04	
3.	10	eP	EZ	02	43	29	Compression $\Delta 36^{\circ}$ H 02 36 21
		i	Z	02	43	34	
		iPcP	Z	02	43	48	
		iPP	Z	02	45	01	
		iS	E	02	49	11	
		i	E	02	52	52	
4.	10	iP	Z	03	50	59	Compression
		isP	Z	03	51	06	
		ipP	Z	03	51	08	
		i	Z	03	51	20	
		iPPT	Z	03	52	59	
		i	Z	03	53	08	
		iPcP	Z	03	53	21	
		i	E	03	56	35	
		i(SSS)	E	03	59	58	
		e	E	04	02	02	
		iL	E	04	05	48	
5.	10	iP	Z	05	56	04	Compression
		isP	Z	05	56	20	
		i	Z	05	56	33	
		cScS	E	06	06	26	
		iL	E	06	09	26	

No.	Date 1957	Phase		Time (G.M.T.)			Remarks
				h.	m.	s.	
6.	November 12	iP	Z	02	25	33	Compression
		i	Z	02	25	41	
7.	13	iP	E	17	28	43	
		iPPP	E	17	30	01	
		i	E	17	30	59	
		eSS	E	17	35	00	
		iL	E	17	36	37	
8.	18	iP	Z	15	26	40	Compression
		i	Z	15	26	45	
9.	19	iP	Z	03	02	21	Compression
		i	Z	03	02	35	
10.	22	iP	Z	16	06	04	Compression
		ipP	Z	16	06	14	
		i	Z	16	06	17	
		i	Z	16	06	24	
		i	Z	16	06	29	
		i	Z	16	08	40	
11.	22	iP	Z	16	18	42	Compression
		i	Z	16	18	49	
		ipP	Z	16	18	53	
12.	25	iP	Z	22	43	58	Rarefaction
		ipP	Z	22	44	04	
		i(SS)	E	22	54	51	
		i	E	22	55	08	
13.	26	iP	EZ	05	19	05	Compression
		isP	Z	05	19	10	
		i	Z	05	19	25	
		i	Z	05	19	32	
		i	Z	05	19	52	
		iPcP	Z	05	20	07	
14.	28	iP	Z	20	56	20	Compression
		i	Z	20	56	35	
		isP	Z	20	57	04	
		i(SSS)	E	21	05	10	
		i	E	21	06	03	
		i	E	21	08	06	
15.	29	iP	Z	17	47	33	Compression
		i	E	17	47	37	
		ipPP	Z	17	47	45	
		i	E	17	48	18	
		i	E	17	48	44	
		iPcP	E	17	52	15	
		e	E	17	53	05	
		i	E	17	53	33	
16.	29	iP	Z	22	38	42	Compression
		i	Z	22	38	48	
		i	Z	22	43	11	
		i	Z	22	44	20	
		e	Z	22	55	02	
		i	Z	22	55	05	

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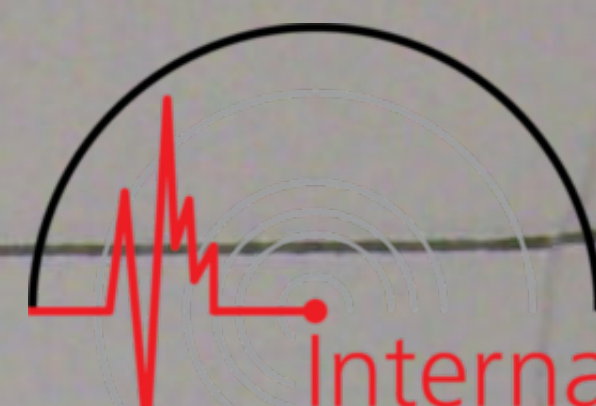
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No.	Date 1957	Phase	Time (G.M.T.)	Remarks
			h. m. s.	
17.	December 4	eP Z	03 51 15	Masked by micro-seisms
		iPcP Z	03 51 25	
		isP Z	03 51 29	
		i Z	03 51 33	
		i Z	03 51 38	
		i Z	03 52 17	
		i Z	03 53 32	
		i(PF) Z	03 55 32	
		i E	03 57 45	
		i E	03 57 59	
		i E	03 59 29	
		iSKS E	04 01 59	
		i(ScS) E	04 02 53	
		i E	04 02 59	
		iPS E	04 04 19	
		ePPS E	04 05 19	
		i E	04 06 41	
		i E	04 07 25	
		i E	04 07 47	
		i E	04 08 09	
		i E	04 09 19	
		iL E	04 14 17	
18.	7	iP Z	03 23 40	Compression
		i Z	03 23 57	
		i Z	03 24 06	
		i Z	03 24 56	
		ipP Z	03 25 19	
		ipp Z	03 25 40	
		e Z	03 25 54	



No.	Date 1957	Phase	Time (G.M.T.)	Remarks
19.	December 9	e Z i Z i Z	22 18 16 22 18 19 22 18 21	Compression
20.	10	iP Z e Z i(pP) Z i(sP) Z i Z i Z	14 42 57 14 43 00 14 43 06 14 43 21 14 43 32 14 43 39	Compression
21.	12	iP Z i Z i Z i Z i Z i Z i Z	18 45 08 18 45 15 18 45 18 18 45 30 18 45 38 18 45 54 18 47 47	Compression
22.	17	i(SP) E	05 10 11	Duration of L waves 1½ hours.
23.	18	iP Z i Z i Z i Z	20 56 56 20 56 57 20 57 02 20 57 14	Rarefaction
24.	26	iP Z i Z i Z i Z i Z iL E	12 14 31 12 14 39 12 14 41 12 14 51 12 15 01 12 23 30	Rarefaction Very approximate.
25.	28	iP Z e Z ipP Z i(PcP) Z i Z i Z	19 09 34 19 09 39 19 09 44 19 10 02 19 10 25 19 10 35	Compression
26.	31	iP E iPP Z i Z i E lPPP E i E iS E i E i(PcP) E iL E e Z	14 31 32 14 31 41 14 31 41.5 14 31 45 14 31 48 14 33 51 14 34 18 14 35 32 14 36 41 14 37 08 14 40 26	$\Delta 14.1^{\circ}$ H 14 28 15 Probably T phase. Very short period for approx. 2 mins. Duration 11m. 45s.