

COMMONWEALTH OF AUSTRALIA
DEPARTMENT OF NATIONAL DEVELOPMENT
BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS
485 Bourke Street,
MELBOURNE. VIC.

PROVISIONAL SEISMOLOGICAL BULLETINMELBOURNE

Latitude: $37^{\circ} 49' 53''\text{S}$ Longitude: $144^{\circ} 58' 24''\text{E}$ Height: 28m.
Foundation : Silurian sand - and mudstone
Instrument : Milne Shaw, east-west component
Period : 12 seconds
Damping : 20 : 1 ca.
Magnification : 250

No.	Date 1954	Phase	Time (G.M.T.)	Remarks
1	Jan. 12	iP iS	14 20 37 24 08	Near Macquarie Island
2	" 12	i i e	22 30 47 30 58 34 08	
3	" 13	iP iS	00 17 23 20 56	Near Macquarie Island
4	" 18	iS ?	10 59 08	
5	" 22	e	11 57 ca	
6	" 22	iP e eS	21 28 48 30 20 33 21	
7	Feb. 19	eP eS	19 14 15 20 00	
8	" 20	iP iS	18 41.4 46 20	
9	" 28	Pn Lq ? Sn S#	18 11 20 12 14 12 25 12 45	Near Adelaide S.A.

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No.	Date 1954	Phase	Time (G.M.T.)	Remarks
10	3rd March	e(P) iS	06 09 38 14 38	
11	3rd "	e	10 54 36	
12	3rd "	e	15 35 32	
13	21st "	iP iS iPPS eSS	23 53 51 00 03 30 04 31 08 29	
14	24th "	eS	00 02 34	Near Macquarie Is.
15	26th "	i	11 24 27	
16	31st "	e e	18 48 47 50 02	
17	2nd April	e e(PP) e(S) L	15 05 37 05 55 09 55 12.9	
18	11th "	e(S)	03 14 40	
19	12th "	e	00 53 32	
20	27th "	eP i eS	21 25 48 26 16 29 12	$\Delta = 18^{\circ} 7'$ Macquarie Island region.
21	29th "	e e e L	12 02 42 04 16 10 59 28.4	
22	30th "	e(PP) e(PKS)	13 24 40 25 36	

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Instrument : Milne Shaw, east-west component
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Damping : 20 : 1ca
Magnification: 250

No.	Date 1954	Phase	Time (G.M.T.)	Remarks
23	1st May	e L	00 34 16 35.3	
24	3rd "	e(S)	15 53 39	
25	8th May	L	19 42	
26	8th "	e	20 28 14	
27	14th "	e iS i	22 51 39 23 00 50 02 33	
30	31st May	eP e e eS e	15 55 59 57 25 58 57 16 01 55 02 23	

MACQUARIE ISLAND

Latitude: $54^{\circ} 29' 55''$ S. Longitude: $158^{\circ} 57' 22''$ E. Height: 14m.
Foundation : Weathered Basaltic Lava
Instrument : Wood-Anderson type seismograph, two components
Period : 1 second
Damping : 0.85
Magnification: 2900

No.	Date 1954	Phase	Time (G.M.T.)	Remarks
20	9th May	local tremor at $16^h 20^m 25^s$		
21	20th "	iP eL	02 18 10 19 25	
22	21st "	iP iS	07 32 04 32 16	
23	29th "	local tremor at $05^h 46^m 35^s$, felt		

P. B. Myc
(P. B. Myc)
Director

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 Foundation : Silurian sand - and mudstone
 Instrument : Milne Shaw, east-west component
 Period : 12 seconds
 Damping : 20 : 1 ca.
 Magnification: 250

No.	Date 1954	Phase	Time (G.M.T.)	Remarks
31	June 6th	i(S)	17 03 09	
32	" 7th	iS iSS	10 26 47 29 47	
33	" 12th	iS L	05 46 54 50.4	
34	" 21st	e	02 18 54	
36	" 28th	e	05 15 07	

MACQUARIE ISLAND

Latitude: $54^{\circ} 29' 55''$ S. Longitude: $158^{\circ} 57' 33''$ E. Height: 14m.
 Foundation : Weathered Basaltic Lava
 Insutrment : Wood-Anderson type seismograph, two components
 Period : 1 second
 Damping : 0.85
 Magnification : 2900

No.	Date 1954	Phase	Time (G.M.T.)	Remarks
24	June 6th	eP	16 59 49	
25	" 7th	iP pP iS	10 23 58 25 27 30 42	
26	" 11th	iPg iSg	06 13 05 13 24	

HEARD ISLAND

No earthquake reported.

P. B. Nye
 (P. B. NYE) *for*
 Director.

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 Foundation : Silurian sand - and mudstone
 Instrument : Milne Shaw, east-west component
 Period : 12 seconds
 Damping : 20 : 1 ca.
 Magnification: 250

No.	Date 1954	Phase	Time (G.M.T.)	Remarks
37	July 2nd	eS eSS eSSS	03 02 14 06 12 00 14	in time break
38	" 3rd	eP ePP iS	23 39 57 41 49 46 47	
39	" 6th	eS	04 12 39	
40	" 6th	eS	08 27 33	
41	" 14th	e L	02 51 00 51.9	
42	" 26th	e	20 39 34	
43	" 30th	e L	09 09.5 26.5	



MACQUARIE ISLAND

Latitude: $54^{\circ} 29' 55''$ S. Longitude: $158^{\circ} 57' 22''$ E. Height: 14m.
Foundation : Weathered Basaltic Lava
Instrument : Wood-Anderson type seismograph, two components
Period : 1 second
Damping : 0.85
Magnification : 2900

No.	Date 1954	Phase	Time (G.M.T.)	Remarks
28	July 18th	iPg iSg	17 23 48 24 06	
29	" 18th	iPg iSg	18 27 22 27 41	
30	" 19th	iPg iSg	21 55 20 55 38	
31	" 27th	iPg iSg	09 03 17 03 23	

HEARD ISLAND

No earthquake reported

(P. B. NYE)
D i r e c t o r.

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Foundation : Silurian sand - and mudstone.
Instrument : Milne Shaw, east-west component.
Period : 12 seconds.
Damping : 20 : 1 ca.
Magnification : 250.

No.	Date 1954	Phase	Time (G.M.T.)	Remarks
44	Aug 1	i	03 38 06	
		i	39 11	
		i	41 05	
		i	41 53	
45	" 5	e	23 54 28	
		e	56 02	
46	" 18	iP	04 49 28	
		i	50 56	
		i	59 21	
		eS	55 22	
47	" 27	e(S)	11 13 34	

No earthquakes were reported from Macquarie Island and Heard Island during August.

(P.B. NYE)
D i r e c t o r

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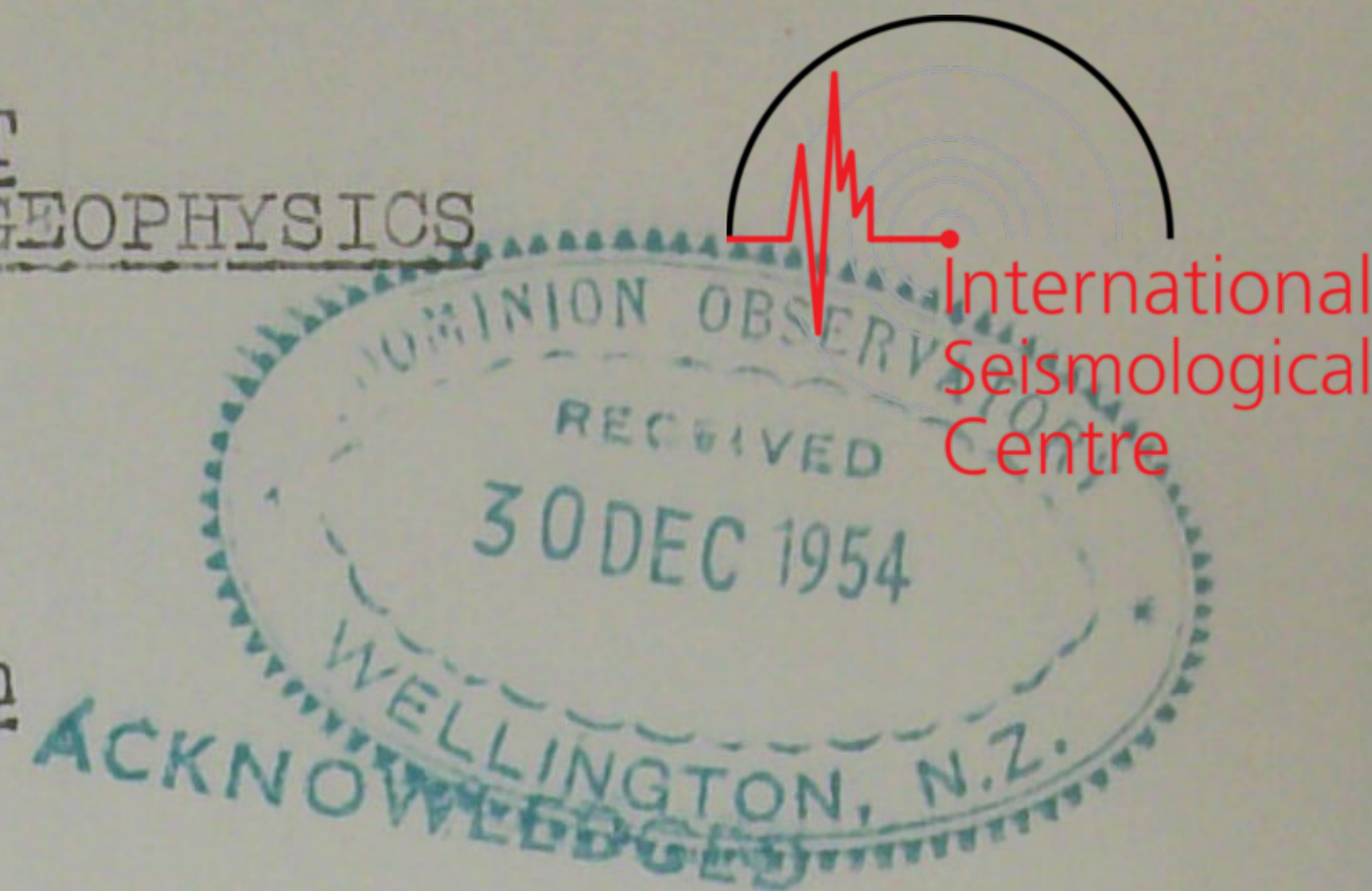
No.	Date	Phase	Time	Remarks
			(G.M.T.)	
	1954		h m s	
48	4th Sept.	P	03 35 21	Recorded on Will- more seismograph
49	13th "	i P i S	02 17 05 22 45	
50	15th "	i P i PP i S _c P i S S _c S	18 02 39 04 30 07 43 07 48 11 34	In time mark
51	17th "	P i i(P) i i S	11 10 06 10 02 11 27 12 57 15 30	
52	19th "	i(S)	10 41 54	
53	19th "	L	16 10	
54	20th "	e S	00 53 46	
55	23rd "	e S	22 07 02	
56	28th "	e	13 11 16	

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Provisional Seismological Bulletin
Melbourne



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Instrument : Milne Shaw, east-west component
Period : 12 seconds
Damping : 20 : 1^{ca}.
Magnification : 250

No.	Date 1954	Phase	Time (G.M.T.)	Remarks
57	1st October	iS	03 07 38	
58	3rd "	eP iS	02 54 05 59 30	
59	4th "	eS	09 45 15	
60	14th "	eS	01 47 18	
61	21st "	eS	00 26 05	in time mark
62	29th "	eS	11 19 29	
63	31st "	eS	23 23 45	

MACQUARIE ISLAND.

Latitude: 54° 29' 55" S. Longitude: 158° 57' 22" E. Height: 14m.
Foundation : Weathered Basaltic Lava
Instrument : Wood-Anderson type seismograph, two components
Period : 1 second
Damping : 0.85
Magnification: 2900

No.	Date 1954	Phase	Time (G.M.T.)	Remarks.
39	9th October	iP iS	04 01 26 01 38	
40	9th "	iP iS	04 25 09 25 18	
41	10th "	iP	05 09 19	Small local tremor
42	10th "	iP	05 10 01	" " "
43	10th "	iP	05 11 26	" " "
44	16th "	iP	10 02 28	" " "
45	17th "	iP iS	13 58 47 58 49	
46	17th "	iP iS	14 04 34 04 36	
47	23rd "	iP iS	03 27 56 27 57	

HEARD ISLAND.

Latitude: 53° 01.2 S. Longitude: 73° 23.1 E. Height: 10m.
Foundation : Solid lava rock
Instrument : Wood-Anderson; period 9 seconds
Grenet vertical; period 1.3 seconds.

No earthquake reported during October 1954.

(P. B. NYE)
Director.

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 Period : 12 seconds
 Damping : 20 : 1^{ca}.
 Magnification: 250

No.	Date 1954	Phase	Time (G.M.T.)	Remarks
64	2nd. November	eP iS Lq	08 31 24 37 11 39.9	
65	25th. ''	ePS eSS L	11 45 40 52 ca 12 00 ca	
66	25th. ''	iS e iScS	21 44 17 47 35 48 47	

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 Instrument : Wood-Anderson type seismograph, two components
 Period : 1 second
 Damping : 0.85
 Magnification: 2900

No.	Date 1954	Phase	Time (G.M.T.)	Remarks
48	2nd. November	L	08 53 ca	
49	5th. ''	iP iS	04 18 57 19 08	
50	9th. ''	iP _n iP _x iP _g iS	14 29 25 29 32 29 41 30 10	
51	13th. ''	iP iS	22 01 01 03	
52	15th. ''	iP iS	07 52 12 15	
54	21st. ''	L	07 54 ca	
55	25th. ''	L	12 10 ca	

HEARD ISLAND

The Australian National Antarctic Research Expedition, whose services have enabled the Seismological Observatory at Heard Island to operate, has been obliged to close down its station on Heard Island in favour of developing a base at Mawson on the Antarctic Continent. Regular recording ceased at the island on 31st. October 1954.

(P.B. NYE)
D i r e c t o r .