

COMMONWEALTH OF AUSTRALIA.
Department of National Development.
Bureau of Mineral Resources, Geology and Geophysics



MUNDARING GEOPHYSICAL OBSERVATORY

Mundaring - Western Australia

SEISMOLOGICAL BULLETIN

Latitude: 31°58.7' S

Longitude: 116°12.5' E

Height: 253 metres.

Foundation: Precambrian granite.

Instruments: World-wide Standardized Seismograph System No. 44
Nominal Magnifications - S.P. 25000; L.P. 750

JANUARY 1964

No.	Date	Phase	Time (GMT)	No.	Date	Phase	Time (GMT)
1	1	iP	12 27 39.3	28	10	iP	21 58 26.9
		iX	28 11.1	29	11	iX	08 36 31.0
		iS	32 15.2	30	11	iP	22 07 13.0
		iX	32 53.8			i(pP)	23.6
2	1	eP	16 02 31			eS	11 19
3	1	eP	17 39 08	31	12	iP	11 20 24.6
4	1	eP	20 09 33			iS	26 05.3
5	2	iP	19 23 35.1	32	12	iP	12 49 01.8
		eS	30 12	33	12	iP	14 35 02.4
6	2	iP	22 15 35.0	34	13	iP	18 58 02.2
7	3	eP	06 20 08	35	14	iP	08 30 33.1
		iX	20 43.8	36	14	eP	09 51 13
		eX	25 22	37	14	iP	10 21 27.0
8	3	iP	07 20 26.0	38	14	iP	15 45 48.3
		ipP	21 00.9			ipP	46 22.6
		iX	25 39.1			iS	51 52.0
9	3	iP	18 20 58.3	39	15	iP	18 55 48.0
10	3	iP	21 34 07.2	40	15	iP	21 46 39.7
11	4	iP	17 47 57.5			eS	55 16.3
12	5	iP	10 22 01.5	41	15	iP	23 14 05.1
13	5	ePKP	18 52 57	42	16	iP	11 53 39.0
14	5	iP	23 56 42.7	43	17	iP	03 03 13.8
		iX	56 49.0	44	17	eS	10 08
15	6	eS	00 05 20	45	18	iP	03 22 32.2
		iX	12 38.0	46	18	eP	06 32 48
16	6	iP	06 04 37.9	47	18	iP	12 14 09.0
17	6	eP	22 11 21	48	18	eP	16 51 36
18	6	iP	23 58 22.2	49	18	eP	17 33 37
19	7	eP	10 47 40	50	18	ePKP	22 57 11
20	8	iP	04 30 56.6	51	19	eP	07 02 25
21	8	iP	16 08 11.0	52	19	eP	12 02 26
		iX	13 27.2	53	19	iP	23 32 24.8
22	8	iP	22 36 35.0	54	20	iP	04 54 35.7
23	9	eP	08 04 21			iX	46.0
		iX	08 07.6	55	20	eP	13 52 53
24	9	iP	18 44 17.1	56	20	iP	17 17 09.9
		iS	54 36			iPcP	18 32.7
25	10	iP	05 02 46.6			iS	24 03
		eS	12 31	57	20	eP	21 15 11
26	10	eP	11 13 14	58	21	iP	22 26 08.3
27	10	eP	19 28 59	59	22	eP	00 58 17

No.	Date	Phase	Time (GMT)	No.	Date	Phase	Time (GMT)
59	22	eP	13	54	05		
		e(S)		58	31		
60	22	iP	16	08	33.1		
61	22	iP	18	55	57.3		
62	23	iP	00	00	27.7		
		eS		15	33		
63	23	iP	16	16	56.0		
64	24	iP	06	34	39.6		
65	24	eP	13	04	37		
66	24	iP	17	28	10.3		
67	24	eP	21	22	29		
68	24	iP	21	33	01.1		
69	24	eP	22	49	29		
70	25	iP	07	13	23.9		
71	25	eP	07	24	15		
72	25	iP	21	56	02.9		
73	26	iPKP	09	28	19.1		
		iPKP			34.1		
		iTP		30	53.5		
		iSKP		31	49.1		
74	27	eP	05	15	50		
75	27	iP	07	07	00.3		
76	28	iP	05	50	55.1		
		ipP		51	03.7		
		eS		56	56		
77	28	iP	14	21	04.2		
		ipP			53.1		
		iS		30	49		
78	28	iP	14	39	47.7		
79	29	iP	08	54	18.5		
80	29	i(P)	09	09	48.9		
81	30	iP	12	46	23.5		
82	30	i(P)	12	52	07.0		
83	31	eP	20	02	09		

P.M. McGregor.
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Mundaring - Western Australia

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Longitude: 116°12.5' E

Height: 253 metres.

Foundation: Precambrian granite.

Instruments: World-wide Standardized Seismograph System No. 44
Nominal Magnifications - S.P. 25000 L.P. 750

FEBRUARY 1964.

No.	Date	Phase	Time (GMT)	No.	Date	Phase	Time (GMT)
1	1	iP	18 22 30.5	30	17	iP	16 51 55.5
2	1	eP	18 50 19	31	18	eP	03 49 57
3	2	iP	00 28 22.3	32	18	iP	03 59 04.5
4	2	iP	01 06 37.4	33	18	iP	04 52 53.7
5	2	iPKP	06 51 41.0	34	18	iP	10 43 43.0
6	2	eP	09 04 44	35	18	e(P)	12 42 32
7	3	iP	20 14 42.0	36	19	eP	09 20 38
8	4	eP	11 38 14			iS	24 54
9	5	iP	11 41 34.8	37	20	iP	09 13 08.9
		ePPP	46 07	38	20	iP	09 16 10.0
		iS	50 53	39	20	eP	10 06 09
10	5	iP	16 22 05.8	40	21	eP	19 26 39
		iX	23 14	41	22	iP	09 00 12.3
		iPP	23 28	42	22	iP	18 03 37.5
		eS	34 40	43	23	iP	12 37 13.5
11	6	iP	04 43 54.6	44	24	iP	05 11 21.5
12	6	iP	12 15 37.9	45	24	iP	15 02 18.4
13	6	e(PF)	13 26 58	46	24	iP	18 53 07.8
		iSS	42 45	47	24	iP	21 45 35.1
14	6	iP	15 24 27.1	48	25	iP	00 44 43.4
15	7	iP	03 52 05.5	49	25	eP	01 33 56
16	8	iP	10 03 48.5	50	25	eP	02 12 42
17	8	iP	18 18 46.3	51	25	iP	21 58 31.1
18	8	eP	19 03 14	52	25	eP	23 29 06
19	9	iP	02 09 28.6	53	26	iP	06 06 57.8
20	9	eP	02 35 08	54	26	iP	18 21 40.1
21	9	eP	16 15 32			ipP	21 58
22	10	iP	00 33 55.5	55	26	iP	21 27 30.1
23	11	eP	12 12 00			ipP	27 40
24	11	iP	21 38 14.0			eS	35 54
25	12	eP	20 39 28	56	26	iP	23 19 55.5
		iPP	41 00	57	27	iP	15 20 26.9
		iS	45 34			ipP	20 54
26	13	eP	03 33 23			iS	28 16
		i(PF)	34 55	58	28	iP	00 05 06.7
27	14	iP	16 37 36.3	59	28	iP	15 19 46.7
		ipP	46	60	28	iP	17 56 28.5
		iS	43 54			ipP	56 40
28	15	iP	16 41 04.4			iS	18 04 06
29	16	iP	21 42 24.1	61	29	iP	20 24 19.1
		ipP	37	62	29	iP	23 54 45.5
		iPP	48			ipP	55 05
						iS	56 49

March 64

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SEISMOLOGICAL BULLETIN

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Height 253 Metres Foundation: Precambrian granite.
Instruments: World-wide Standardized Seismograph System No. 44
Nominal Magnifications - S.P. 25000; L.P. 750

MARCH 1964

No.	Date	Phase	TIME (GMT)	No.	Date	Phase	TIME (GMT)
	1	Nil.		31	12	iP	22 41 16.5
1	2	iPKP	12 58 54.5			ipP	41 33
		ipPKP	59 14			iS	48 05
2	2	iP	19 42 56.0	32	13	iP	06 28 18.6
		eS	51 16	33	13	iPKP	12 13 50.3
3	2	iP	22 09 35.7	34	13	ePKP	19 10 56
4	3	iP	09 19 09.8	35	13	iPKP	21 27 51.0
5	3	iP	21 46 40.2	36	14	eP	01 14 13
6	4	iP	04 12 05.5	37	14	iP	03 00 44.2
7	4	eP	06 18 09	38	14	iP	07 46 33.2
8	4	eP	15 29 50	39	14	iP	11 54 00.0
9	4	eP	22 14 19	40	14	iP	15 14 25.8
10	4	eP	22 39 49	41	15	eP	03 24 59
		eX	45 14	42	15	iP	08 12 51.7
11	5	iP	00 09 26.7	43	15	ePKP	22 49 35
12	5	eP	06 05 15			iPKS	53 14
13	5	eP	10 14 07	44	16	iP	01 16 35.9
		ePP	15 56	45	16	iP	08 56 34.5
14	5	iP	20 42 38.1	46	16	eP	15 01 04
15	6	iP	00 31 17.1	47	16	iP	15 07 14.0
* 16	6	iP	09 16 44.0	48	16	iP	21 48 46.9
* 18	6	iP	19 05 17.4	49	17	iP	01 10 52.6
		epP	35	50	18	iP	00 20 37.2
		eS	11 43	51	18	iP	00 50 27.5
19	7	iP	00 00 25.5	52	18	iP	04 49 41.0
20	7	iP	01 55 18.3			iS	59 52
21	7	iP	07 32 28.6	53	19	iP	04 54 38.6
22	7	eP	21 14 03	54	19	eP	18 44 54
23	7	iP	23 22 39.1	55	19	iP	21 54 52.5
24	8	iP	01 43 35.2			ipP	55 04
		e(S)	53 00			iS	22 03 46
25	10	eP	12 43 22	56	20	iP	04 28 49.1
26	10	iP	14 06 39.5	57	20	iP	19 00 23.5
		iS	12 04	58	20	iP	19 10 44.4
27	10	eP	23 16 01	59	21	iP	03 47 36.1
28	11	iP	01 12 49.2			iS	51 44
		ipP	58.7	60	21	iP	16 36 55.4
		iS	18 15	61	22	iP	05 38 19.7
29	12	iP	05 46 23.6	62	22	eP	13 46 26
30	12	eP	09 00 06	63	22	iP	22 37 19.6
* 17	6	iP	14 27 13.9				

No	No.	Date	Phase	Time (GMT)		No.	Date	Phase	Time (GMT)	
64	23	eP	13	52	25					
65	23	iP	22	44	45.3					
66	24	iP	09	51	29.3					
67	24	iP	14	50	53.7					
68	24	iP	15	46	43.2					
69	25	iP	11	43	49.1					
70	25	iP	15	41	07.7					
71	25	iP	22	01	56.1					
72	26	eP	02	13	15					
		iS		20	19					
73	26	iP	09	23	06.7					
74	26	iP	12	21	22.9					
75	26	iP	21	35	50.0					
76	26	eP	23	16	42					
77	27	iP	04	40	36.2					
78	27	iP	20	31	03.0					
		i(pP)		32	45					
		iS		38	13					
79	27	iP	23	14	13.6					
80	28	eP	03	51	31					
81	28	iP	07	00	16.9					
82	28	iPKP	07	29	08.1					
83	28	iP	10	51	40.9					
84	28	iP	11	36	29.7					
85	28	iPKP	12	39	30.6					
86	28	ePKP	15	06	22					
87	28	ePKP	20	47	53.3					
88	29	iP	21	48	36.8					
		iS		55	12					
89	30	iP	00	46	33.6					
90	30	ePKP	02	36	47					
91	30	eP	05	11	41					
92	30	iP	07	28	26.9					
93	31	eP	00	26	34					
94	31	iP	05	20	54.9					
95	31	iP	17	13	54.0					
96	31	iP	22	44	14.6					

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April 64

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. Mundaring - Western Australia

SEISMOLOGICAL BULLETIN

Latitude: 31°58.7' S Longitude: 116°12.5' E
Height: 253 metres. Foundation: Precambrian granite
Instruments: World-wide Standardized Seismograph System No.
44 Nominal Magnifications - S.P. 25000 L.P. 750

APRIL 1964.

No.	Date	Phase	Time (GMT)	No.	Date	Phase	Time (GMT)
	1	Nil.		27	8	iP	11 10 34.3
1	2	iP	01 19 37.2			iS	20 45
		ipP	59	28	8	iP	19 50 11.0
		eS	25 55	29	8	ePKP	20 09 07
2	2	iP	03 17 28.6		9	Nil.	
3	2	iP	06 58 27.8	30	10	iPKP	01 26 46.5
4	2	iP	07 45 15.2		11	Nil.	
5	2	iP	16 03 59.8	31	12	eX	01 54 12
		iS	09 46	32	12	iP	03 25 51.0
6	2	iP	23 40 30.4			e(s)	29 08
7	3	iP	04 20 13.8	33	12	iP	05 34 11.5
		ipP	26			i(s)	37 27
		iS	27 20	34	12	iP	06 09 30.3
8	3	iP	09 12 24.6	35	12	iP	11 20 01.5
9	3	eP	15 50 34			iS	27 16
10	3	iP	19 16 56.2	36	12	iPKP	17 40 53.0
11	3	ePKP	22 52 29	37	13	eP	00 31 37
12	4	eP	02 53 56	38	13	iP	03 30 35.9
13	4	eP	02 58 48	39	13	iP	06 32 47.2
14	4	ePKP	05 12 49	40	13	iP	08 54 56.6
15	4	eP	07 04 52			iPcP	55 41
16	4	ePKP	13 04 48	41	13	iP	11 29 41.7
		iX	13 40	42	13	eP	14 22 19
17	4	ePKP	18 18 20	43	13	iPKP	21 44 12.2
18	4	iP	21 46 11.8	44	14	iP	01 17 14.5
19	5	ePKP	01 40 55	45	14	eP	05 08 02
20	6	iP	07 16 19.5			eS	13 05
		iX	17 12	46	14	iP	09 07 23.6
21	6	iP	23 51 01.0			epP	31
		ipP	26			eS	14 24
22	7	eP	01 11 30	47	14	iP	09 28 57.7
23	7	iP	13 24 37.3	48	14	eP	16 23 58
		ipP	25 09	49	14	eP	23 05 30
		ePP	25 38	50	14	ePKP	23 14 11
		iS	29 40	51	15	iP	01 07 37.5
24	8	iP	05 04 37.1	52	15	iP	15 10 10.5
25	8	eP	06 14 29	53	15	iP	16 46 00.4
26	8	iP	08 17 10.1	54	15	iP	17 01 16.3
		eS	24 29	55	16	eP	00 46 06

No.	Date	Phase	Time (GMT)		No.	Date	Phase	Time (GMT)	
56	16	iP	14	13	19.2				
		e(pP)			30				
57	16	eP	19	45	38				
58	17	iP	06	08	01.5				
59	17	iP	09	27	51.5				
60	18	iP	10	00	14.2				
61	19	iP	04	06	51.0				
		epP		07	08				
62	19	iP	14	25	04.5				
		eS		35	30				
63	19	iP	21	39	48.5				
64	20	iP	03	05	00				
65	20	iPKP	12	15	29.5				
66	20	iP	13	49	12.5				
67	20	iP	21	21	02.6				
68	21	iPKP	05	21	22.7				
69	21	eP	20	40	18				
70	22	iP	16	14	25.0				
71	22	iP	19	48	32.8				
72	22	iP	20	09	03.0				
		iS		15	27				
73	23	iP	03	39	09.2				
		i(pP)			24				
		iS		44	09				
74	23	eP	10	41	02				
		epP			20				
75	24	iP	06	03	14.5				
		i(pP)			38				
		eS		08	53				
76	24	iPKP	15	00	01.0				
		iP		00	43				
77	25	eP	05	44	45				
78	25	iP	18	47	38.9				
79	26	e(P)	14	05	10				
80	26	iP	15	01	22.0				
		ipP		03	07				
81	27	eP	06	52	23				
		epP			33				
	28	Nil.							
82	29	eP	17	49	59				
83	30	iP	03	18	59.5				
84	30	iP	16	11	32.6				
		epP			50				
		iS		18	00				

P.M. McGregor
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May 64

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MUNDARING GEOPHYSICAL OBSERVATORY

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SEISMOLOGICAL BULLETIN

Latitude: 31°58.7' S Longitude: 116°12.5' E
Height: 253 metres. Foundation: Precambrian granite
Instruments: World-wide Standardized Seismograph System No. 44
Nominal Magnifications - S.P. 25000; L.P. 750

MAY 1964.											
No.	Date	Phase	Time (GMT)			No.	Date	Phase	Time (GMT)		
1	1	iP	01	19	51.5	33	11	eP	14	49	08
2	2	iP	16	23	23.5	34	11	iP	15	04	27.6
		iS		33	38	35	11	iP	17	00	17.9
3	2	iPKP	20	13	07.5	36	12	eP	07	13	44
4	2	iP	21	07	01.6	37	12	iP	10	12	53.1
5	2	iP	22	52	29.5	38	12	eP	15	50	33
	3	Nil.				39	12	iP	18	27	33.5
6	4	eP	17	15	18	40	12	iP	22	55	04.2
7	5	eP	11	24	51	41	13	eP	00	17	25
8	5	iP	17	16	25.0	42	13	iP	05	34	51.6
9	6	iP	00	07	19.6			iS		42	26
10	6	eP	04	39	15	43	13	iP	11	15	11.5
11	6	iP	08	19	16.9	44	13	eP	16	52	11
		iPP		21	06	45	13	eP	20	47	14
		iS		26	08	46	13	eP	23	53	49
12	6	iP	08	28	19.7	47	14	eP	03	38	35
13	7	iP	00	44	43.1	48	14	iP	20	09	57.6
14	7	iP	05	57	39.6	49	15	iPKP	10	37	31.2
		iS	06	07	44	50	15	iP	10	58	08.3
15	7	iP	08	09	53.3			iS	11	04	24
		iS		19	32	51	15	ePKP	12	30	17
16	7	iP	11	21	01.5	52	15	eP	14	44	59
		iPcP			27	53	16	iP	06	13	50.9
17	7	iP	18	23	45.0	54	16	iP	08	51	25.5
18	7	iP	20	24	30.1	55	16	iP	16	17	14.8
		iS		34	08			iS		24	49
19	7	iP	21	22	09.3		17	Nil.			
20	8	iP	06	29	33.1	56	18	iP	14	22	28.8
21	8	iP	21	52	37.5			ipP			38
22	9	iP	00	33	23.5			eS		30	58
23	9	iP	01	18	53.0	57	18	eP	16	05	31
24	9	eP	13	55	37	58	19	eP	09	19	06
25	9	iP	18	25	04.8	59	19	iP	10	51	48.5
		ipP			19	60	19	iPKP	23	23	09.1
26	9	iP	21	15	46.7			iSKKS		33	12
27	10	eP	05	50	18	61	20	eP	05	02	59
28	10	eP	06	35	47	62	20	iP	06	08	15.1
29	10	iP	07	57	33.1			ipP		08	31
30	10	iP	17	31	39.2			iS		13	51
31	10	eP	22	19	23	63	20	iP	22	32	41.2
32	11	iP	05	38	05.5	64	21	eP	00	53	33



No.	Date	Phase	Time (GMT)	No.	Date	Phase	Time (GMT)
65	21	iP	07 35	26.4			
66	21	iP	10 35	25.7			
67	21	ePKP	15 54	44			
68	22	iP	00 35	56.2			
69	22	eP	04 55	54			
70	22	iP	07 01	58.0			
71	22	iP	10 10	19.2			
72	22	eP	14 14	50			
73	22	iP	16 08	12.0			
74	23	iP	11 32	26.9			
75	23	eP	23 55	32			
76	24	iP	02 28	22.5			
77	24	eP	02 35	38			
78	24	iP	07 23	22.8			
		ipP		33			
79	24	eP	10 42	35			
		ipP		45			
		iPcP		55			
80	24	eP	22 31	09			
81	25	eP	19 50	49			
		iPcP		53			
		iS		56			
82	26	iP	09 50	27.6			
83	26	iP	11 11	43.6			
		iS		21			
84	26	iP	11 54	46.0			
85	26	iP	12 35	57.5			
86	26	iP	14 26	47.0			
87	26	iP	14 44	17.0			
88	26	iP	15 55	11.0			
89	27	iP	01 09	16.5			
90	27	iP	06 43	30.7			
		ipP		44			
				03			
91	27	eP	08 20	39			
92	27	iP	10 02	43.8			
93	27	iP	11 31	01.5			
94	27	iP	19 14	41.4			
95	28	iP	06 40	26.2			
96	28	iP	23 35	11.5			
97	29	iP	09 17	08.9			
98	29	iP	14 58	16.8			
99	29	iP	15 45	36.6			
100	29	iP	18 43	31.0			
101	30	iP	14 42	03.7			
		iS		51			
				20			
102	30	iP	17 31	02.4			
103	31	iP	00 52	43.6			
		ipP		52			
				54			
		iS	01 02	46			
104	31	iP	12 33	42.1			
105	31	iP	13 30	44.0			
106	31	iP	16 49	08.2			
107	31	iP	17 10	39.1			
108	31	iP	22 14	49.4			

P.M. McGregor
Observer-in-Charge.

COMMONWEALTH OF AUSTRALIA
Department of National Development.
Bureau of Mineral Resources, Geology and Geophysics.



MUNDARING GEOPHYSICAL OBSERVATORY

Mundaring - Western Australia

SEISMOLOGICAL BULLETIN

Latitude: 31°58.7' S

Longitude: 116°12.5' E

Height: 253 metres.

Foundation: Precambrian granite

Instruments: World-wide Standardized Seismograph System No. 44
Nominal Magnifications - S.P. 25000; L.P. 750

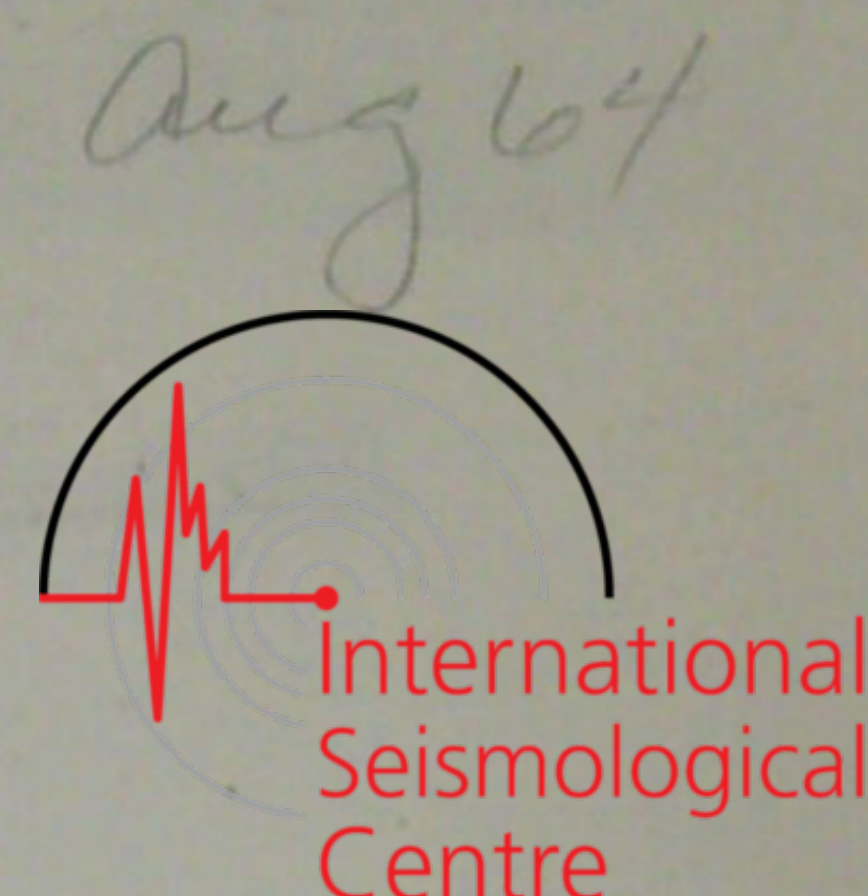
JUNE 1964

No.	Date	Phase	Time (GMT)	No.	Date	Phase	Time (GMT)
1	1	iP	02 26 06.0	33	15	i(P)	01 16 13.8
2	1	iP	06 13 42.0	34	15	iP	02 15 52.5
		epP	14 22	35	16	iP	04 13 11.5
3	1	iP	08 04 06.0			e(S)	22 50
4	1	iP	08 56 43.2	36	17	iP	22 26 31.6
5	2	eP	13 45 20	37	18	iP	09 42 23.7
6	2	iP	23 21 19.5		19	NIL	
7	3	iP	00 56 50.3	38	20	iP	10 55 39.0
8	3	iP	02 59 17.0	39	20	e(P)	18 09 28
9	4	e(P)	10 23 27		21	NIL	
10	4	eP	11 24 48	40	22	eP	00 27 11
		eS	30 54	41	22	iP	03 12 01.1
11	4	eP	13 02 32	42	22	eP	21 31 50
	5	NIL		43	23	iP	01 38 37.8
12	6	iP	08 17 49.5	44	23	iP	19 17 12.6
13	7	iP	08 29 18.6			ipP	22
14	8	iP	18 14 27.7		24	NIL	
15	8	iP	23 02 52.3		25	NIL	
		epP	03 21	45	26	e(P)	16 16 08
16	9	iPKP	18 35 46.2		27	NIL	
17	10	iP	11 04 46.5	46	28	eP	07 29 51
18	10	eP	18 06 32	47	28	iP	10 17 18.7
19	10	eP	18 32 00	48	28	iP	12 59 38.0
		iX	02			eS	13 06 05
20	10	iP	22 23 52.5	49	28	iP	15 00 42.0
		epP	17	50	28	iP	16 49 28.5
		iS	29 40	51	28	eP	19 27 50
21	11	iP	11 07 48.5		29	NIL	
22	11	eP	17 09 04	52	30	iP	08 57 36.0
		epP	08	53	30	eP	13 52 41
		iS	14 57			epP	46
23	11	iP	21 40 40.6			e(S)	57 37
		ipP	41 14	54	30	eP	19 53 53
24	12	iP	16 04 10.0	55	30	eP	20 20 08
25	12	iP	18 20 46.0	56	30	eP	23 43 42
26	13	iP	08 32 17.0				
27	13	iP	14 09 15.0				
28	13	iP	17 45 50.5				
29	14	iP	11 05 53.2				
30	14	iP	19 33 45.2				
31	15	iP	00 13 15.8				
		epP	25				
		eS	19 31				
32	15	iP	01 14 49.8				

No.	Date	Phase	Time (GMT)	No.	Date	Phase	Time (GMT)

68	31	OS	06	05	32
		IP		35	31.8
69	31	OP	11	44	57
70	31	IP	14	58	21.8

COMMONWEALTH OF AUSTRALIA
Department of National Development.
Bureau of Mineral Resources, Geology and Geophysics.



MUNDARING GEOPHYSICAL OBSERVATORY

Mundaring - Western Australia

SEISMOLOGICAL BULLETIN

Latitude: $31^{\circ}58.7' S$ Longitude: $116^{\circ}12.5' E$
Height: 253 metres. Foundation: Precambrian granite
Instruments: World-wide Standardized Seismograph System No. 44
Nominal Magnifications - S.P. 25000; L.P. 750

AUGUST 1964

No.	Date	Phase	Time (GMT)	No.	Date	Phase	Time (GMT)
1	1	iP	09 58 59	32	17	e(P)	17 15 52
2	2	eP	00 15 20	33	18	ePKP	00 45 55
3	3	eP	04 41 51	34	18	eP	04 33 23
4	3	eP	17 13 20	35	18	iPKP	05 03 52.5
5	4	iP	17 36 53.1	36	18	iP	15 37 01.4
6	5	eP	03 50 06	37	19	iP	01 43 17.0
7	5	iP	11 14 59.8	38	19	iP	02 58 29.3
		iPcP	16 03	39	19	eP	04 03 48
		eS	22 12	40	19	eP	09 45 42
8	6	iP	07 17 02.9	41	19	iP	15 32 44.7
9	6	iP	17 12 28.6	42	20	eP	01 11 52
10	6	eP	23 51 21	43	20	iP	04 21 33.0
	7	NIL		44	20	iP	04 25 36.0
11	8	iP	15 02 37.5	45	20	eP	05 21 21
		iPcP	02 44	46	20	eP	05 52 18
12	8	iP	15 10 25.9	47	20	iP	17 37 31.0
		ipP	10 52	48	21	eP	08 11 47
13	8	iPKP	16 04 59.0	49	22	eP	00 03 30
		ipPKP	05 21.2			eS	07 13
14	9	eP	03 20 21	50	25	eP	03 01 50
15	9	eP	20 13 03	51	25	eP	05 53 22
16	10	ePKP	17 18 34	52	27	eP	04 51 22
		iPKP	17 19 07	53	27	iP	08 04 32.6
17	10	iP	21 48 09.9			epP	43
18	11	iP	13 41 51.0	54	27	iP	08 35 08.0
19	11	iPKP	14 32 10.0	55	28	iP	04 44 38.0
20	12	iP	19 39 17.9	56	28	iP	13 29 19.5
21	13	iP	00 38 48.0	57	29	ePKP	17 37 19
		ipP	40 04	58	30	iP	02 45 44.8
		iS	44 51			epP	52
22	13	eP	04 34 13	59	30	iP	08 54 41.8
23	14	iP	07 13 59.2			epP	53
24	14	iP	16 51 33.8	60	30	iPKP	15 40 40.8
25	14	iPKP	19 45 05.7	61	30	iP	21 54 46.0
26	14	iPKP	21 47 21.7			epP	55 31
27	14	iP	21 57 11.8	31		NIL	
		epP	19				
	15	NIL					
28	16	iP	11 15 45.2				
29	17	iP	11 54 09.8				
30	17	eP	12 06 45				
31	17	eP	14 52 44				

P.M. McGregor
Observer-in-Charge.

Sept 64

COMMONWEALTH OF AUSTRALIA
Department of National Development
Bureau of Mineral Resources, Geology and Geophysics,



MUNDARING GEOPHYSICAL OBSERVATORY

Mundaring - Western Australia

SEISMOLOGICAL BULLETIN

Latitude: 31°58.7' S Longitude: 116°12.5' E
Height: 253 metres. Foundation: Precambrian granite
Instruments: World-wide Standardized Seismograph System No. 44
Nominal Magnifications - S.P. 25000; L.P. 750

SEPTEMBER 1964

No.	Date	Phase	Time (GMT)			No.	Date	Phase	Time (GMT)		
1	1	iP	13	33	02.0	32	16	iP	05	28	38.5
2	2	NIL				33	16	iP	20	57	05.0
2	3	iP	22	24	55.4	34	17	iPKP	15	21	54.7
		ipP		25	43.0			iPKP		22	02.0
3	4	iPKP	03	48	11.4	35	18	ePKP	12	32	38
4	4	eP	00	14	48	36	19	ePKP	05	27	55
5	4	iP	10	40	31.2	37	20	iP	03	30	47.4
		iS		45	36	38	20	iP	14	46	00.2
6	4	iP	17	16	48.0			iPcP		46	29
7	5	iP	03	01	52.1	39	21	iP	04	32	12.8
		iPP		03	42			ipP		34	07
		iS		08	20	40	21	iP	05	43	28.0
8	5	eP	21	56	19	41	21	iP	18	19	46.8
9	6	iP	18	49	36.0	42	21	eP	21	34	06
		ipP		49	45.0	43	22	NIL			
		eS		56	32	44	23	iP	17	25	25.0
10	6	iP	20	41	34.7	45	24	eP	09	22	30
	7	NIL				46	25	eP	20	35	14
11	8	iP	08	02	05.7	47	25	iP	23	36	32.2
12	8	iP	17	14	33.4	48	26	iP	00	57	11.5
13	8	iP	20	30	26.5	49	26	iP	03	49	09.4
14	9	eP	04	58				iP	23	03	21.7
	10	NIL						iS		09	50
	11	NIL				50	27	eP	08	00	44.6
15	12	iP	06	36	38.0	51	27	eP	10	00	26
16	12	iP	10	56	54.6	52	27	iP	15	28	54.2
17	12	iP	12	50	25.8			eSn		34	32
		ipP		50	47	53	27	eP	22	09	33
		iS		56	09	54	28	eP	05	18	52
18	12	iP	15	28	30.0	55	28	iP	20	14	13.8
19	12	iPKP	19	25	48.5	56	29	iP	14	10	39.0
20	12	iP	22	14	33.0			eS		18	59
		iS		20	13		30	NIL			
21	13	iP	00	28	30.5						
22	13	e(P)	08	16	09						
23	13	iP	11	13	20.4						
24	14	iP	13	01	23.4						
25	14	iPKP	13	53	13.8						
26	15	eP	05	44	23						
27	15	iP	09	10	37.4						
28	15	iP	13	23	36.5						
29	15	iP	15	37	56.8						
		ipP		38	09						
		iS		44	36						
30	16	eP	01	34	59						
31	16	iPKP	02	09	24.0						

I.B. Everingham
I.B. Everingham
A/g Observer-in-Charge.



Latitude: 31°58.7' S

Longitude: 116°12.5' E

Height: 253 metres.

Foundation: Precambrian granite

Instruments: World-wide Standardized Seismograph System No. 44
Nominal Magnifications - S.P. 25000; L.P. 750

OCTOBER 1964

No.	Date	Phase	Time	(GMT)
1	1	eP	22 57	22
2	2	iP	04 40	16.0
3	2	iP	13 09	11.0
		epP		21
		eS	16	00
4	3	iP	21 21	56.0
5	3	iP	22 50	59.8
	4	NIL		
6	5	iP	08 40	53.0
7	5	iP	12 34	34.2
8	5	iP	13 20	54.5
9	5	eP	14 09	04
10	5	iP	19 14	18.5
11	6	eP	06 20	29
12	6	ePKP	14 49	55
13	6	eP	20 30	39
	7	NIL		
14	8	eP	00 59	55
15	8	iP	04 43	30.4
16	9	iP	21 44	58.0
		epP	45	08
17	10	iP	08 40	06.0
18	11	iP	11 19	18.3
19	11	iP	21 21	25.1
		epP		31
20	11	iP	23 40	41.8
21	12	eP	11 50	47
22	12	iP	15 49	51.5
		epP	50	04
		eS	55	28
23	12	iP	20 21	03.9
24	13	iP	05 36	35.5
25	13	iP	10 46	54.0
		epP	47	07
		e(S)	53	18
26	13	eP	13 47	33
27	14	iP	12 14	16.8
28	15	eP	20 39	10
		epP	39	22
		eS	49	24
29	15	ePKP	21 24	03
30	16	eP	05 31	41
31	16	eP	06 25	08
32	16	iP	07 11	56.6
		iS	22	10
33	16	eP	08 30	47
34	17	iP	01 46	41.5
		epP		54

No.	Date	Phase	Time	(GMT)
		eS	53	11
35	17	eP	03 23	66
36	17	iP	06 04	35.4
37	17	iP	15 06	52.4
38	18	eP	09 16	25
39	18	eP	09 35	44
40	18	iP	12 37	09.4
		iS	12 40	59
41	18	eP	13 19	15
42	18	eP	14 08	28
43	18	iP	14 47	00
44	18	eP	22 40	37
45	18	eP	23 58	17
46	19	eP	03 05	39
47	19	iP	08 59	26.0
	20	NIL		
48	21	eP	04 16	35
49	21	iP	23 19	45.5
		epP		55
		iS	28	19
50	22	eP	12 47	49
51	23	ePKP	02 16	07
52	23	iP	12 53	10.0
53	23	eP	21 18	35
54	24	iP	22 13	05
55	25	iP	06 45	04.8
56	25	eP	09 23	04
57	25	iP	12 17	47.9
58	25	ePKP	23 16	02
59	26	iP	14 29	50.5
60	26	iP	22 18	19.4
61	27	eP	02 49	17
62	27	iP	21 29	08.0
		epP		16
		eS	32	51
	28	NIL		
63	29	iP	07 00	34.6
	30	NIL		
64	31	iP	19 02	13.0

I.B. Everingham
A/g Observer-in-Charge.

COMMONWEALTH OF AUSTRALIA
Department of National Development.
Bureau of Mineral Resources, Geology and Geophysics.

MUNDARING GEOPHYSICAL OBSERVATORY

Mundaring - Western Australia

SEISMOLOGICAL BULLETIN



Latitude: 31°58.7' S

Longitude: 116°12.5' E

Height: 253 Metres.

Foundation: Precambrian granite

Instruments: World Standardized Seismograph System No. 44
Nominal Magnifications - S.P. 25000; L.P. 750.

NOVEMBER 1964

No.	Date	Phase	Time	(GMT)	No.	Date	Phase	Time	(GMT)
1	1	iP	03	05 35.8	44	18	iP	14 42 22.6	
2	1	iP	12	33 07.5			eS	48 20	
3	2	eP	05	09 35	45	18	iP	22 31 26.1	
		esS		14 29	46	19	eP	15 52 25	
4	2	ePKP	07	10 17			eS	59 48	
5	3	eP	12	49 24	47	19	iP	17 28 56.2	
6	4	iP	21	10 04.5	48	19	iP	21 17 01.3	
7	5	eP	00	51 13	49	19	iP	23 42 54.5	
8	6	eP	10	05 36			eS	49 08	
9	7	iP	00	57 19.2	50	20	iP	01 31 19.5	
10	7	eP	04	12 43	51	20	eP	03 09 33	
11	7	eP	07	51 29	52	20	eP	16 25 17	
12	7	eP	08	07 19	53	20	ePn	19 11 17	
13	7	iP	08	55 20.6	54	20	iP	19 28 17.4	
14	7	iP	18	44 32.0	55	20	iP	23 09 17.7	
		eS		50 09	56	20	iP	23 54 34.6	
15	8	eP	02	00 46	57	21	iP	02 23 02.1	
16	8	eP	02	51 27	58	21	eP	04 08 31	
		eSS	03	00 08	59	21	iP	06 27 57.0	
17	9	eP	04	49 51	60	21	iP	12 49 29.6	
		eS		51 14	61	21	eP	15 43 24	
18	9	iP	16	23 45.0	62	21	iP	23 34 03.9	
19	9	iP	17	58 35.8	63	22	iP	02 47 42.3	
20	9	iP	18	52 40.0			epr	49 36	
21	10	iP	10	42 52.9	64	22	iP	05 10 22.2	
22	10	eP	16	00 49	65	22	iP	05 54 12.7	
23	10	iP	17	23 42.3	66	22	iP	09 08 36.9	
24	11	iP	21	36 42.7	67	22	iP	09 31 35.6	
25	12	iP	09	36 09.0	68	22	iP	18 00 02.6	
26	13	eP	01	44 38	69	22	iP	18 48 32.9	
27	13	iPKP	08	22 23.9	70	23	iP	04 22 33.9	
28	13	iP	13	33 02.9	71	23	iP	07 09 58.2	
29	13	eP	22	07 03	72	23	eP	09 08 50	
30	14	eP	04	06 51	73	23	eP	22 22 11	
31	14	eP	16	17 08	74	24	eP	01 46 32	
32	14	iP	17	01 56.9	75	24	eP	05 53 49	
33	15	iP	04	42 20.0	76	24	iP	10 46 57.3	
34	15	iP	07	31 19.2	77	24	eP	12 49 12	
35	15	eP	16	53 11	78	24	iP	12 58 51.8	
36	16	iP	09	06 36.6	79	25	iP	08 41 34.2	
37	17	iP	08	23 23.1	80	25	iP	09 29 13.2	
		eS		29 35	81	25	iP	19 40 30.8	
38	17	iP	11	11 57.7	82	26	iP	10 30 53.0	
39	17	eP	14	45 49	83	27	iP	13 59 07.2	
40	17	iPKP	16	36 48.6	84	27	ePKP	14 47 31	
41	17	eP	17	47 14	85	27	iP	20 34 37.3	
42	17	eP	19	09 17	86	28	iPKP	16 59 44.0	
43	18	eP	03	29 46					

P.T.O.

MUNDARING GEOPHYSICAL OBSERVATORY

Mundaring, Western Australia

18th November 1964.

Establishment of Field Seismological Station

A field station of the Mundaring Observatory was established at Kalgoorlie, Western Australia, on 6 November 1964. It will operate for an indefinite period, but for at least two years.

Records from the station are analysed and held at Mundaring. Initially, only the phases iP will be read; they will be distributed with the Mundaring data. Any correspondence relating to Kalgoorlie (KLG) records should be addressed to the Observer in Charge, Mundaring.

Details of the new station are:

Co-ordinates: Latitude $30^{\circ} 47' 01.2''$ South
Longitude $121^{\circ} 27' 28.9''$ East
Elevation 350 metres.

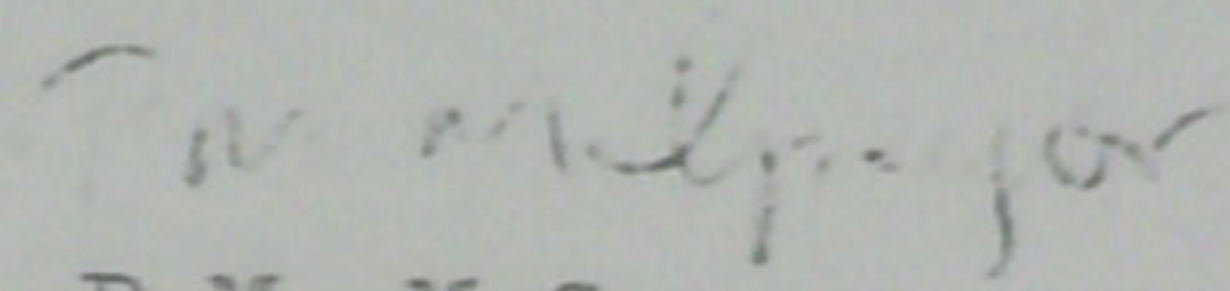
Recorder: Benioff, 3 channel 60 mm/min paper speed
Photographic.

Galvanometers: $T = 1/4$ sec

Seismometers: Vertical - Willmore $T = 1.0$ sec
2 Horizontals - Benioff $T = 1.0$ sec

Foundation: Alluvium - covered basic metasediments
of Pre-cambrian age

Magnification: Seismograph will be calibrated.
Initial magnification roughly
25,000 at 1 c.p.s.


P.M. McGregor
Observer-in-Charge.

MUNDARING GEOPHYSICAL OBSERVATORY

Mundaring - Western Australia

SEISMOLOGICAL BULLETIN



Latitude: 31°58.7' S Longitude: 116°12.5' E
Height: 253 Metres. Foundation: Precambrian granite
Instruments: World Standardized Seismograph System No. 44
Nominal Magnifications - S.P. 25000; L.P. 750.

DECEMBER 1964

No.	Date	Phase	Time	(GMT)	No.	Date	Phase	Time	(GMT)
1	1	iP	05	03	21.0	38	17	iPKP	14 19 00.2
2	1	eP	11	53	55		18	NIL	
3	2	iP	14	31	20.5	39	19	eP	18 23 11
		iX			23	40	20	iP	11 35 52.9
4	3	eP	03	58	37	41	21	eP	07 36 52
5	3	eP	08	24	38	42	22	iPKP	00 42 56.5
6	4	iP	15	56	26.3	43	22	iP	00 55 26.4
		epP			30	44	22	eP	04 48 54
		eS	16	02	39	45	22	ePKP	08 21 04
7	4	iP	21	19	23.5			eX	22 05
	5	NIL				46	22	iP	12 07 02.9
8	6	eP	04	34	19	47	22	iP	18 35 21.1
9	6	iP	05	50	21.4	48	23	iP	07 41 42.5
10	6	iP	08	13	34.2	49	24	iP	18 53 45.2
11	6	iP	16	06	49.4			eS	19 00 05
12	7	iP	09	06	31.6	50	24	iP	19 33 17
		epP			45		25	NIL	
		eS		12	46	51	26	eP	14 43 18
13	7	iP	15	50	32.2	52	27	iP	17 51 38.5
14	7	eP	19	12	39	53	28	eP	05 03 45
15	7	eP	19	37	02	54	28	iP	16 25 02.5
	8	NIL						ipP	26 58
16	9	iP	06	29	17.0			eS	32 13
17	9	ePKP	13	53	32	55	29	iP	23 08 42.3
18	9	eP	14	09	57	56	29	eP	23 30 51
19	9	iP	19	31	32.5	57	30	iP	15 37 49.1
20	10	iP	15	22	49.6	58	30	iP	21 39 50.2
21	11	iP	05	33	05.5	59	31	eP	23 21 31
22	11	iP	16	15	24.6				
23	11	iP	22	48	57.5				
24	12	iP	07	27	39.5				
		epP			49				
		eS		33	44				
25	12	iP	19	54	46.0				
26	12	eP	22	26	16				
27	12	iP	23	15	06.5				
		epP			21				
		eS		21	00				
28	12	eP	23	47	30				
		eS		51	00				
29	13	eP	00	22	50				
30	13	iP	06	15	44.0				
31	13	e(pP)	13	25	06				
32	14	iP	02	11	06.0				
33	14	iP	03	40	22.8				
34	15	iP	05	13	18.0				
35	15	iPKP	12	33	02.5				
		iX			23				
36	16	iP	04	02	30.0				
37	17	eP	01	14	04				

P.M. McGregor
Observer-in-Charge.