Jan 63 4

COMMONWEALTH OF AUSTRALIA
Department of National Development.
Bureau of Mineral Resources, Geology & 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. 1,500.

JANUARY 1963.

No.	Date	Phase	Time (GMT)		
1	1	iP	12	25	35.8
2	1	iP	16	37	44.0
3	1	eP	19	41	58
		e(sS)		46	54
3	1	iP	23	57	39.5
4	2	eP	03	31	14
		epP			23
5	2	iP	09	31	49.8
		epP		32	05
6	2	iP	15	02	39.0
		epP			44.0
		eS		07	57
7	2	iP	18	06	10.0
8	3	iP	09	47	34.0
		ipP			47.7
		eS		53	50
9	3	eP	14	04	36
10	4	eP	12	24	42
		eS		31	18
11	5	eP	00	27	14
12	5	iP	00	37	40.0
13	5	iP	13	21	42.0
		epP			49
		iS		25	51.8
14	6	iP	03	26	07.3
15	6	iP	15	32	41.5
16	6	iP	19	52	11.5
		ipP			18.8
		eS		56	25
17	7	iP	11	55	01.3
18	8	eP	15	57	04
19	9	iP	02	22	59.3
20	9	eP	06	58	26
	10	NIL			
21	11	iP	17	14	53.1
		ipP		15	49.5
22	12	iPKP	04	00	16.0
23	12	eP	23	29	20
24	13	iP	07	59	43.6
25	13	iP	12	57	02.8
26	13	iP	13	52	04.5
27	14	eP	11	28	26
28	15	iP	02	41	52.1
29	15	iP	19	35	49.0
30	16	iP	21	13	15.0
		epP			36
		eS		16	56
31	17	eP	20	50	54
32	18	iP	05	49	32.5
		iS			43.8
	19	NIL			
	20	NIL			
	21	NIL			
33	22	eP	04	08	33
	23	NIL			
34	24	iP	09	34	07.8
35	24	eP	12	19	43
36	24	iP	22	35	11.3
		eS		41	22
37	24	iP	22	51	57.2
38	24	eP	23	29	46
39	25	iP	00	24	38.8
40	25	eP	04	18	13
41	25	eP	09	22	21
42	25	iP	20	31	54.8
43	26	eP	06	15	10
44	27	iP	18	54	06.6
45	28	eP	12	20	17
		eS		26	42
46	28	iP	13	59	37.0
47	29	iP	09	33	53.0
48	29	iP	21	16	51.0
49	30	iP	10	22	50.2
		eSKS		33	09
50	30	eP	10	58	02
51	31	iP	05	16	46.5
		ipP			58.5
		eS		24	58

F.M. McGregor
Observer-in-Charge.

Feb 63

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Mundaring - Western Australia

SEISMOLOGICAL BULLETIN

Latitude: 31°58.5' 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.

FEBRUARY

No.	Date	Phase	Time (GMT)			No.	Date	Phase	Time (GMT)		
1	1	iP	10	23	00.1	28	16	eP	12	20	36
2	2	iP	07	55	46.0	29	16	iP	12	31	18.8
		ipP			58	30	16	iP	23	44	17.6
3	2	iP	11	58	36.2	31	17	eP	00	29	19
4	3	iP	01	56	54.2	32	17	iP	07	00	35.5
5	4	iP	01	24	34.7	33	18	iP	15	46	47.0
		epP			42	34	19	iP	03	22	16.1
6	4	eP	06	27	51	35	19	iP	15	33	38.8
7	4	eP	15	12	47			epP		34	40
8	4	iP	23	33	48.5	36	19	iP	16	52	02.3
		ipP		34	07.0	37	20	iP	02	22	40.6
	5	iP	05	13	57.7	38	20	iP	04	08	28.5
10	5	ePP	20	58	24			epP			44
		eSKS	21	04	24	39	20	eP	08	52	46
11	6	iP	02	00	45.5	40	21	iP	06	19	31.8
		epP		01	41	41	21	eP	13	26	21
12	6	iP	10	27	57.2	42	21	iP	14	38	52.9
		iPP		29	25.0			epP		39	01
		eS		34	04			eS		47	25
13	6	iP	12	55	08.0	43	21	iP	15	51	07.4
14	7	iP	02	11	45.1	44	22	iP	08	08	10.9
	8	NIL.					23	NIL.			
15	9	iP	08	45	03.8	45	24	iP	06	45	27.0
		epP			32	46	24	iPKP	13	53	51.0
16	9	iP	17	03	41.8			ipPKP		54	18.0
17	10	iPKP	15	25	09.9	47	25	eP	00	48	25
	11	NIL.				48	25	eP	02	43	37
18	12	iP	23	16	41.0	49	25	iP	04	58	18.9
19	13	iP	08	59	13.0	50	25	eP	09	18	30
		ipP			54.7	51	25	iP	17	20	41.0
		iS	09	07	26			eS		28	31
20	13	eP	18	22	24	52	26	iP	14	12	51.2
		epP			28			eS		14	41
		eS		29	08	53	26	iP	20	21	02.5
21	14	iP	07	10	04.6			iS		26	34.2
		eS		14	30	54	26	iP	22	35	57.8
22	14	eP	22	00	01	55	27	iP	04	37	35.6
23	14	iP	22	15	04.4			epP			48
		epP			20			eS		43	36
		eS		20	52	56	27	iP	05	31	33.4
24	15	iP	00	58	07.0	57	27	eP	07	45	05
25	15	iP	16	36	58.2			epP			13
26	16	iP	05	51	39.8	58	27	eP	20	36	34
27	16	iP	10	51	01.8			ipP			55.9
								eS		43	00
						59	27	eP	23	18	10
							28	NIL.			

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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.I. 25000; L.P. 1500.

MARCH 1963.

No.	Date	Phase	Time (GMT)		
1	1	iP	23	40	21.5
		eS		42	30
2	2	eP	04	20	53
3	2	iP	16	14	48.0
4	2	iP	17	35	31.0
5	2	eP	21	56	17
6	2	iP	22	26	42.0
	3	NIL.			
7	4	eP	13	48	16
8	4	eP	15	58	06
9	4	iPKP	16	02	29.5
10	5	ePKP	07	24	22
11	6	iP	15	14	40.8
12	7	iP	01	56	48.3
13	7	iP	03	49	39.5
14	7	ePS	05	49	34
15	8	eP	02	53	19
		eS	03	00	30
16	9	iP	05	34	41.7
17	9	eP	16	31	24
		eS		37	32.
18	9	eP	19	03	27
		eS		09	37
19	9	iP	22	52	53.6
20	10	iP	01	28	14.0
		epP			42
21	10	iP	03	03	13.5
22	10	iP	13	58	00.5
23	11	iP	09	11	50.5
24	11	e(S)	19	05	12
24	12	iP	20	48	15.7
		epP			31
	13	NIL.			
25	14	iP	02	01	59.5
		ipP		02	03.0
		iS		05	20.7
26	14	iP	08	09	11.2
		ipP			22.0
		eS		16	26
27	15	iP	00	09	40.3
28	15	iP	00	23	35.2
		ipP			47.3
		eS		29	42
29	15	iP	11	02	46.0
30	16	eP	03	45	38
		epP			47
31	16	iP	08	57	26.0
		ipP			48.0
		eS	09	08	02
32	16	iP	13	28	41.0
33	16	eP	21	50	28
		epP			40
	17	NIL.			
34	18	eP	11	44	55
		epP		45	06
35	19	iP	05	20	38.1
36	19	eP	05	55	30
37	19	eP	14	50	46
38	19	iP	19	15	44.6
39	20	iP	04	52	09.8
40	20	iP	04	54	44.6
41	20	eP	16	45	55
	21	NIL.			
	22	NIL.			
42	23	iP	21	16	12.8
43	24	iP	02	12	09.3
		epP			21
		iS		16	11
44	24	eP	09	39	21
45	24	eP	09	51	06
		epP			19
46	25	iP	12	57	54.7
47	25	iP	14	31	18.2
48	25	eP	20	23	37 *
49	25	iP	22	53	29.0
		ipP			39.0
		eS		59	18
50	26	iP	09	57	52.1
		epP		58	02
		eS	10	05	36
51	26	eP	13	01	11
48	25	eS		28	51 *

MUNDARING.

No.	Date	Phase	Time (GMT)			No.	Date	Phase	Time (GMT)
52	26	iP	13	54	34.5				
		eS		42	17				
53	26	eP	14	43	00				
54	26	iP	21	45	48.5				
		eS		54	58				
55	26	iP	23	57	32.0				
		epP		58	17				
56	27	eP	20	34	51				
57	28	ePKP	00	35	13				
		ePP		37	57				
58	28	iP	01	35	09.4				
59	28	e(P)	01	35	52				
60	28	eP	04	18	38				
61	28	iP	11	22	03.0				
		epP			11				
62	28	iP	15	19	57.5				
		epP		20	08				
63	28	iP	23	38	48.6				
64	29	eP	21	26	13				
65	29	eP	22	00	52				
		eS		04	07				
66	30	iP	02	01	59.1				
		eS		08	51				
67	30	iP	17	04	10.0				
		epP			20.0				
68	31	eP	00	30	40				
69	31	eP	01	22	03				
70	31	iP	05	40	22.1				
		ipP			38.5				
		eS		48	00				
71	31	iP	07	15	07.3				
		epP			21				
		eS		21	05				
72	31	iP	09	16	51.5				
73	31	eP	14	04	18				
74	31	iP	17	36	05.0				
		ipP			15.2				
75	31	iP	19	32	24.8				
		epP			40				
		eS		40	00				

P.M. McGregor.
Observer-in-Charge.

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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. 1500.

APRIL 1963.

No.	Date	Phase	Time (GMT)			No.	Date	Phase	Time (GMT)		
1	1	iP	02	27	27.6	31	12	iP	00	52	53.9
		ipP			39.5	32	12	epP			50
2	1	iP	04	00	23.5	33	12	eP	20	58	54
3	1	iP	04	40	26.0	34	13	ePKP	02	40	13
4	2	iP	04	53	08.0			epPKP			40
5	2	iP	05	06	01.9	35	13	iP	14	38	02.6
6	3	iP	01	39	03.5			ipP			12.0
7	3	iP	11	31	25.3	36	14	eP	05	42	04
8	3	eP	11	49	56	37	14	eP	13	22	19
		iX		50	15.5	38	15	iP	00	46	21.3
		epP			26			eS		48	11.4
9	3	eP	14	59	37	39	15	iPcP	15	10	23.9
		epP			45	40	15	eP	20	25	54
		eS		09	39	41	15	eP	23	49	58
10	3	iP	15	26	07.5	42	16	eP	01	35	50
		epP			19	43	16	eP	02	01	44
11	3	iP	19	03	06.3	44	16	eP	03	38	55
	4	Nil.				45	16	eP	09	17	05
12	5	eP	06	56	29	46	16	eP	12	10	11
13	6	iP	02	42	05.6	47	16	eP	20	07	17
14	6	iP	02	59	03.6	48	17	eP	01	16	43
15	6	iP	07	12	21.6	49	17	iP	02	21	08.0
16	6	iP	18	00	17.8			ipP			15.1
17	6	iP	21	42	58.8			eS		28	52
18	7	eP	04	07	16	50	17	iP	08	34	00.6
19	7	eP	22	42	02			epP			33
		epP			16	51	17	iP	18	37	18.2
		iS		46	51		18	Nil.			
		iScS		52	37	52	19	iP	03	52	18.5
20	8	eP	06	30	53	53	19	eP	07	46	32
21	8	eP	12	01	10			eS		55	36
22	8	eP	22	46	25	54	19	iP	16	30	15.3
23	9	iP	02	11	39.8			iX			28.3
24	9	eP	18	49	47	55	19	eP	16	35	24
25	9	iP	23	06	38.5	56	20	eP	01	14	33
		epP			54	57	21	eP	04	48	01
26	10	eP	07	55	42	58	21	eP	10	46	10
		epP			52		22	Nil.			
		eS		59	56		23	Nil.			
27	10	iP	11	47	26.0	59	24	eP	04	05	18.
28	11	iP	09	38	04.0	60	24	iP	21	51	48.8
29	11	iP	10	14	32.0	61	25	iP	08	19	16.3
30	11	iP	16	57	37.0			epP		21	02
						*32	12	iP	08	50	29.1

MUNDARING.

No.	Date	Phase		Time (GMT)		No.	Date	Phase	Time (GMT)
61	25	iSP		24	11.0				
		iS		24	18.8				
62	25	iP	16	42	25.8				
63	25	eP	17	59	46				
64	26	eP	08	28	43				
65	27	iP	08	49	31.0				
		ipP			39.0				
		eS		54	45				
66	27	iP	11	16	49.4				
	28	Nil.							
67	29	iP	14	59	38.1				
		iPcP		01	34.8				
		eS		05	58				
68	30	eP	01	04	54				
		ipP		05	00.0				
		eS		10	08				
69	30	iP	02	42	30.3				
70	30	eP	10	29	25				

P.M. McGregor.
Observer-in-Charge.

MAY 1963

COMMONWEALTH OF AUSTRALIA.
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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.

MAY 1963.

No.	Date	Phase	Time (GMT)			No.	Date	Phase	Time (GMT)		
1	1	iP	10	11	51.8	22	16	iP	19	29	22.8
		ipP		12	26.0	23	17	iP	06	17	47.0
		eS		18	45.6			ipP		18	06.7
	2	Nil.						iS		24	37.7
2	3	eP	08	42	27.7	24	18	iP	12	25	41.4
3	3	eP	11	05	27	25	18	iP	13	08	41.6
		epP			38	26	19	eS	01	28	27
4	4	iPKP	16	39	09.4	27	19	iP	19	28	09.6
5	4	iP	19	14	23.6	28	20	iP	11	47	31.5
	5	Nil.						ipP			41.6
6	6	iP	08	43	29.4	29	20	iP	21	11	45.6
		epP			45.8			ipP		12	08.9
		i(S)		47	24.1	30	21	iP	17	38	52.7
	7	Nil.						ipP		39	04.9
7	8	iP	10	33	29.1	31	22	iP	14	09	29.8
		epP			46.0			ipP			39.7
		iS		42	46.4			iS		20	08.2
8	8	eP	15	31	12	32	22	iP	15	50	00.9
		iX			24.1			eS		55	47
		ipP			30.8	33	22	iP	21	58	12.1
	9	Nil.						eS	22	02	21
9	10	iP	04	37	17.1	34	23	eP	00	58	31
		ipP			28.5			ipP			40.7
10	10	iPKP	22	42	13.9	35	23	i(P)	03	43	25.6
		ipP			24.1			iS		51	06.0
11	11	iP	17	18	19.5	36	23	iP	05	35	31.6
12	11	eP	17	25	39	37	23	iP	15	19	24.5
13	12	iP	09	50	20.9			ipP			46.3
14	12	iP	19	30	08.0	38	25	eP	16	20	37
15	13	eP	07	18	10			ipP			45.5
16	13	iPKP	13	03	38.7			iS		31	13.0
17	13	iP	14	16	18.0	39	26	eP	00	10	21
		ipP			52.6			ipP			30.4
		iS		23	10.2	40		eP	23	40	05
18	13	iP	22	55	43.2		27	Nil.			
		ipP		56	06.0		28	Nil.			
19	14	iP	15	14	05.3	41	29	eP	08	47	24
20	14	iP	23	22	49.8	42	29	iP	11	08	27.0
		ipP		23	07.1	43	29	iP	22	42	37.0
21	15	eP	03	00	18	44	30	iP	07	02	13.4
		iS		06	31.0			eS		07	04

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

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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.

JUNE 63

No.	Date	Phase	Time (GMT)			No.	Date	Phase	Time (GMT)		
1	1	eP	12	41	44	28	17	iP	18	39	52.5
2	1	eP	21	24	36			eS		47	13
3	2	eP	10	08	06	29	17	iP	20	18	58.3
		epP		08	18	30	17	iP	23	08	15.0
		eS	10	14	32			iPcP	23	11	12.2
4	2	eP	21	16	29	31	18	eP	04	12	48
		eS		26	46	32	19	iP	09	16	12.9
5	2	iP	22	41	22.6			iS		21	57.0
6	3	ePKP	11	51	42	33	19	iP	10	57	35.7
7	4	iP	12	03	41.4			ipP			50.0
8	4	iP	19	31	40.2	34	19	iP	12	22	13.6
		ipP		32	03.0	35	19	iP	18	29	57.5
9	4	iP	21	11	10.0	36	20	eP	22	56	04
		eS	21	16	20			eS	23	04	04
10	5	iP	10	20	53.9	37	21	eP	00	18	02
		eS	10	27	54	38	21	iP	15	36	39.5
11	6	iP	05	28	01.5			epP		36	54
		epP		28	14	39	22	iP	16	17	04.9
		eS		35	20	40	23	iP	03	59	06.0
12	6	iP	17	51	22.7			eS	04	07	38
13	7	eP	22	48	14	41	23	iP	09	00	26.4
		eS	22	57	00	42	23	eP	10	56	42
	8	Nil.						epP		57	14
14	9	iPKP	20	57	41.7	43	24	eP	04	45	19
15	10	iP	04	22	57.2	44	25	eP	07	32	54
		eS	04	28	09	45	25	eP	14	37	36
16	10	iP	06	45	24.8			eS		41	58
		eS		50	34	46	26	iP	09	48	44.3
17	10	iP	12	27	40.0			ipP			55.0
		ipP		28	21	47	26	iP	14	21	05.3
18	11	iP	00	06	44.5	48	26	iPKP	18	02	28.9
19	12	iP	04	18	36.0			ipPKP			36.1
20	12	iP	15	24	42.9	49	27	e(P)	11	52	10
		ipP			52.8	50	27	iP	15	41	47.7
21	13	iP	10	40	37.8			epP		41	58
22	13	eP	17	34	47	51	28	eP	22	08	14
23	14	iP	16	39	58.3			eS		18	42
24	15	eP	21	59	59	52	29	iP	08	35	20.0
		ipP	22	00	08.9	53	29	iP	12	52	43.0
25	16	eP	13	57	04	54	29	iP	23	10	50.1
26	17	eP	15	02	00	55	30	iP	00	07	16.2
27	17	eP	17	46	40	56	30	iP	06	51	49.8
								eS		56	48

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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.

JULY 1963.

No.	Date	Phase	Time (GMT)		
	1	Nil.			
	2	Nil.			
	3	Nil.			
1	4	iP	11	07	47.1
		iS	11	15	20
	5	Nil.			
2	6	iP	05	12	05.0
3	6	eP	21	23	20
	7	Nil.			
	8	Nil.			
	9	Nil.			
4	10	iP	20	01	57.7
		ipP		02	36.1
	11	Nil.			
5	12	eP	05	48	57
6	12	eP	08	04	17
	13	Nil.			
7	14	iP	17	14	54.3
		ipP		15	28.2
8	14	eP	19	27	16
	15	Nil.			
9	16	eP	19	18	05
10	17	iP	03	35	02.3
11	18	eP	01	04	51
12	18	iP	05	10	20.8
		eS		20	31
13	19	iPKP	06	05	02.0
14	20	eP	06	42	50
		eS		48	00
15	21	iP	14	52	53.0
16	22	iP	00	36	44.9
		ipP			58.0
		eS		42	50
17	22	iP	15	58	17.5
18	22	iP	19	29	53.5
	23	Nil.			
19	24	iP	16	54	00.9
20	24	eP	19	12	50
	25	Nil.			
21	26	iP	05	35	23.5
22	27	eP	15	28	51
23	28	iP	08	00	04.0
		ipP			13.9
		eS		03	39
24	28	iP	10	12	18.4
25	28	iP	16	40	23.0
26	29	iP	05	36	56.2
27	29	iP	06	22	47.8
28	29	iP	16	53	41.6
29	29	iP	20	23	44.8
		eS		31	34
30	29	iP	23	46	10.0
31	30	iP	05	55	31.0
		ipP			42.5
		eS	06	03	16
32	30	iP	14	04	40.6
33	30	eP	14	32	51
34	30	iP	15	14	12.3
		eS		22	00
35	30	iP	23	36	30.5
36	31	eP	14	48	50

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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.

AUGUST 1963.

No.	Date	Phase	Time (GMT)		
1	1	iP	12	51	57.3
2	1	eP	15	30	32
3	1	iP	17	07	18.3
4	2	ePKP	09	27	03
5	2	eP	19	33	39
6	3	iP	03	55	43.5
		i(pP)		57	12.0
		eS	04	01	48
7	3	eP	06	35	19
8	3	iPKP	10	41	07.5
9	3	iP	20	35	34.3
10	4	iP	07	13	40.0
		iS		17	39.0
11	4	eP	09	59	37
12	4	ePKP	12	26	52
13	5	iP	00	03	29.4
14	5	eP	11	17	35.6
15	5	eP	15	46	20
		eS		52	16
16	6	eP	11	55	31
17	6	iPKP	13	56	16.5
18	7	eP	03	56	53
19	7	eP	04	35	21
20	7	eP	07	16	07
21	7	iP	11	24	13.9
		iX		25	55.0
22	7	iP	14	06	11.2
23	7	iP	15	48	25.8
24	7	ePKP	18	56	27
25	8	iP	11	23	56.8
		iX		24	05
		iS		30	11
26	8	iP	14	02	48.3
27	9	eP	14	47	12
	10	Nil.			
28	11	eX	16	39	13
	12	Nil.			
29	13	iP	04	58	47.6
		ipP	05	00	13.4
30	13	iP	06	38	24.3
31	13	iP	07	02	35.5
32	13	iP	22	03	05.9
33	14	iP	03	40	28.8
		ipP			46.1
		eS		46	41
34	14	eP	08	49	54
35	14	iP	18	50	35.6
		ipP			45.5
		e(S)		55	56
36	15	iP	06	23	01.0
		ipP			15.0
		iS		32	27
37	15	ePKP	17	43	07
		iSKS		49	35
38	16	eP	03	05	55
39	16	eP	20	56	45
40	16	iP	23	23	38.8
		eS		26	56
41	17	eP	11	23	12
		iS		31	48
42	17	e(P)	11	27	29.0
43	17	iPKP	11	53	52.3
44	18	eP	20	37	10
		eX			17
45	19	eP	07	34	22
46	19	iP	08	49	56.8
	20	Nil.			
47	21	eP	10	26	28
48	22	iP	20	00	38.5
		iS		07	15
	23	Nil.			
49	24	eP	12	59	31
50	25	iP	12	27	26.6
		iS		34	58
51	26	iP	05	48	21.0
		eS		52	55
52	26	iP	11	56	24.6
53	26	iP	23	38	02.5
54	27	eP	15	47	18
55	27	iP	19	20	02.5
56	27	eP	20	50	22
	28	Nil.			
57	29	iP	09	06	02.5
		eS		16	08
58	29	ePKP	15	49	48
		ipPKP			57.2

No.	Date	Phase	Time (GMT)			No.	Date	Phase	Time (GMT)		
58	29	iPKS		53	31						
59	29	iP	21	08	15.2						
		eS		16	56						
60	30	eP	00	21	48						
		eS		26	13						
61	31	iPKP	13	28	31.5						

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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 1963.

No.	Date	Phase	Time (GMT)		
	1	Nil.			
	2	Nil.			
1	3	e(P)	18	41	50
2	4	e(P)	07	51	22
	5	Nil.			
3	6	e(P)	06	15	01
4	6	iP	08	17	49.5
5	6	iP	10	25	31.2
		ipP		27	09.0
6	7	iP	04	15	14.2
		e(pP)		15	44.5
		eS		20	50.5
7	7	eP	08	48	39
		iS		52	28.0
8	7	eP	19	32	51
9	8	iP	19	59	19.9
		epP	20	01	03
		iS		06	29.0
10	9	iP	02	53	49.1
		ipP		54	06.0
		eS	03	00	16
11	9	eP	13	00	50
12	10	e(eS)	19	31	43
13	11	iP	09	05	58.4
		e(S)		15	02
14	12	iP	03	20	35.6
15	13	eP	18	20	00
16	14	eP	00	22	06.3
		eS		30	12
17	14	eP	00	24	53
18	14	eP	04	01	43
		eS		09	16
19	14	iP	07	26	14.2
20	15	iP	00	55	49.2
		i(pP)		56	01.0
		eS	01	02	58
21	16	eP	18	08	42
22	16	e(P)	20	14	11.6
		i(pP)		14	16.8
		eS		21	17
23	17	eP	06	13	50.1
24	17	iP	19	29	06.7
		iS		36	20.5
25	18	iP	17	24	56.8
	19	Nil.			
26	20	iP	19	08	59.1
27	21	iP	16	22	00.2
28	22	iP	03	05	52.5
29	22	iP	19	31	26.9
30	23	eP	05	42	29.5
31	23	iP	06	52	42.8
32	23	iP	09	14	03.7
33	23	iP	15	14	30.2
34	23	iP	22	20	44.0
35	23	eP	23	34	06
36	24	ePKP	16	49	17
		iPKS		53	05.0
		eSKS		56	08
		e(SKKS)		58	28
37	25	iP	07	16	06.7
38	26	iP	06	02	28.6
		ipP		02	38.2
		eS		08	18
39	26	iP	20	43	05.8
40	27	iP	11	12	25.7
41	27	iP	11	35	21.7
		ipP		35	32.0
		eS		42	56
42	28	iP	03	11	34.6
43	28	iP	06	10	10.7
44	28	iP	07	06	46.5
45	28	iP	11	15	13.8
46	28	iP	18	48	45.1
47	29	iP	19	42	15.0
				48	06.2
48	29	ePKP	23	03	40
49	30	eX	01	18	42
50	30	iPKP	04	06	42.3
51	30	iP	09	00	45.6
		ipP		00	55.0
		eS		05	54

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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

OCTOBER 1963.

No.	Date	Phase	Time (GMT)			No.	Date	Phase	Time (GMT)		
1	1	ePKP	10	50	19	27	14	iP	13	34	03.4
2	2	eP	03	39	21.8			ipP			19.9
3	2	iP	05	57	28.8			eS		44	18
		ipP			37.6	28	15	iP	04	20	28.9
		eS	06	05	54	29	15	iP	07	17	21.8
4	2	eP	17	08	06	30	15	iP	21	51	19.4
5	2	i(P)	20	04	20.9			ipP			28.5
6	3	eP	05	41	40			eS		56	24
7	3	iP	16	00	44.4	31	16	eP	15	55	12
		eS		11	09			eS	16	05	22
8	3	eP	23	35	16	32	17	iP	14	21	55.5
		ipP			25.8	33	17	iP	15	36	47.1
		iS		44	00.0	34	17	eP	23	36	51
9	4	iP	02	57	56.3		18	Nil.			
		ipP		58	05.6	35	19	iP	09	10	10.0
10	4	iP	03	56	58.2	36	19	eP	11	57	46
11	5	iP	02	06	11.9	37	19	eP	19	54	00
12	5	iP	05	26	14.9	38	20	eP	01	05	27
	6	Nil.						eS		15	47
13	7	iP	04	19	44.8	39	20	iP	08	31	41.0
14	7	iP	13	23	14.1	40	20	iP	09	23	02.2
		ipP		24	58.6	41	20	eP	12	04	40
		iS		30	23.9	42	21	eP	17	33	00
15	7	eP	23	46	09	43	21	eP	23	41	36
16	8	eP	00	27	45	44	22	iP	15	44	15.8
		eS		36	25			epP			35
17	8	eP	20	36	29	45	23	eP	10	19	54
18	9	iP	05	22	57.5	46	23	eP	10	24	04
19	9	iP	13	05	13.9		24	Nil.			
	10	Nil.				47	25	iP	20	08	05.5
20	11	iP	16	43	14.7			epP			14
21	11	i(P)	21	34	31.5			eS		15	26
22	12	iP	11	39	14.3	48	25	eP	23	00	59
		epP			27	49	26	iP	12	44	17.9
		eS		49	29	50	26	iP	19	01	19.0
23	13	eP	05	30	12.6	51	26	iP	22	49	21.7
		eS		40	27			eS		55	33
24	13	eP	13	10	42	52	27	iP	08	54	56
25	13	iP	16	12	17.0	53	28	iP	00	43	49.5
		eS		22	33	54	28	iP	20	08	02.7
26	13	eP	22	07	23		29	Nil.			
							30	Nil.			

No.	Date	Phase	Time (GMT)			No.	Date	Phase	Time (GMT)
55	31	eP	03	27	56				
		ipP		28	06.0				
56	31	iP	09	00	49.9				
57	31	iP	10	12	10.0				
		eS		16	09				

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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

NOVEMBER 1963.

No.	Date	Phase	Time (GMT)	No.	Date	Phase	Time (GMT)
1	1	iP	21 09 24.2	36	14	iP	14 41 02.3
2	1	e(P)	21 45 19	37	15	i(P)	16 23 23.5
3	1	eP	22 53 39	38	15	iP	21 18 48.0
	2	Nil.				ipP	19 03.0
4	3	iPKP	03 29 40.0			eS	29 00
5	3	eP	14 40 38	39	16	iP	06 46 15.0
6	4	iP	01 22 54.3	40	16	eP	11 18 07
7	4	iP	02 25 01.2	41	16	eP	22 53 38
8	4	iP	05 36 36.7			eS	23 01 54
		iS	10 48.5	42	16	eP	23 50 00
9	4	iP	05 28 45.1	43	17	iP	01 07 40.1
10	4	eP	06 47 04	44	17	eP	06 15 03
11	4	iP	19 57 44.4	45	17	eP	07 58 01
12	4	iP	22 22 49.3	46	17	iP	13 23 09.0
13	5	iP	00 49 10.0	47	17	eP	20 09 11
14	5	iP	23 59 40.0	48	18	eP	05 21 45
15	6	iP	01 25 04.6	49	18	e(P)	05 42 49
16	6	iP	02 20 15.3	50	18	eP	19 55 51
		eS	25 54	51	19	eP	10 54 37
17	6	iP	09 06 52.5	52	19	e(P)	12 01 42
18	6	eP	17 12 00	53	19	eP	16 09 11
19	7	iP	00 00 37.3	54	19	e(P)	18 23 06
20	7	iP	13 04 46.2	55	19	eP	19 24 35
21	7	iP	16 35 27.2	56	20	iP	04 14 37.5
22	8	iP	04 32 57.0			ipP	15 21.6
23	8	iP	05 13 53.9			iPP	16 12.0
24	8	iP	16 20 20.0			iS	20 27.0
25	9	iP	15 56 25.0	57	20	e(P)	09 29 04
26	9	ePKP	21 33 41	58	20	iP	10 56 28.4
		iPP	36 36.0	59	21	iP	06 41 25.6
27	10	ePKP	01 18 50			iS	45 28.6
		iPP	21 40.0	60	21	iP	09 17 16.0
28	10	iP	04 37 24.6	61	21	eP	17 52 17
29	10	iP	17 29 58.0	62	21	iP	19 35 31.0
		iS	40 12	63	21	iP	21 14 23.2
30	10	iP	19 29 06.9			ipP	40.3
31	11	iP	00 20 41.2	64	22	iP	00 23 50.0
32	11	iP	11 39 22.0	65	22	e(P)	07 58 48
33	12	iP	20 59 41.7	66	22	iP	11 55 20.3
34	13	iP	05 23 55.9	67	22	iP	14 58 09.2
35	13	iP	11 27 20.0			eS	15 00 23

No.	Date	Phase	Time (GMT)		
68	22	iP	17	14	16.4
69	23	iP	05	02	26.0
70	24	eP	02	00	36
71	24	eP	04	04	51
72	24	eP	05	10	53
73	24	eP	05	23	33
74	24	iP	11	16	04.7
75	24	eP	15	38	51
76	24	iP	23	10	56.9
77	25	eP	01	01	17
78	26	iP	06	57	49.7
		eS	07	04	20
79	26	eP	08	52	55
80	26	eP	22	59	42
		eS	23	07	26
81	27	e(P)	13	23	53
82	27	iP	14	05	58.1
83	28	eP	20	03	36
84	29	eP	18	41	17
85	29	iP	19	04	42.0
86	30	iP	09	54	46.8
		eS	10	00	16
87	30	iP	21	48	24.2

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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

DECEMBER 1963.

No.	Date	Phase	Time (GMT)			No.	Date	Phase	Time (GMT)		
1	1	iP	07	54	26.1	33	11	iP	02	40	34.5
2	2	e(P)	00	34	11	34	11	iP	04	00	05.7
	2	eP	08	45	20			iX		01	18.7
3	2	e(S)		49	07	35	12	eP	04	18	16
4	3	eP	06	59	05	36	12	iP	15	10	26.7
5	3	iP	07	20	55.8	37	13	Nil.			
6	3	eP	21	24	08	38	14	iPKP	03	25	16.3
		eS		31	15	39	14	iP	01	54	29.3
7	3	iPKP	23	22	44.2	40	15	eP	17	37	41
8	4	eP	00	55	52	41	15	iP	19	39	49.8
9	4	eP	02	59	50			iS		43	51
10	4	eP	10	28	09	42	15	eP	22	48	27
11	5	iP	05	59	24.1	43	16	eP	01	57	10
12	5	eP	11	49	45			iX			13.5
13	5	iP	13	13	29.4	44	16	eP	05	15	26
14	5	eP	14	20	52	45	16	iP	06	43	16.0
15	5	iP	21	51	19.8			i(pP)		43	34.8
16	5	iP	23	37	56.0	46	16	iP	14	22	24.7
17	6	iP	02	04	22.2			eS	14	26	04
		ipP		04	32.7	47	16	iPKP	17	00	24.9
		eS		10	31	48	17	eP	00	46	31
18	6	eP	16	52	46	49	17	e(P)	06	07	19
19	7	iP	04	16	50.3	50	17	eP	10	26	30
		eS	04	24	04	51	17	eP	19	48	09
20	7	iP	04	55	18.1	52	18	iP	00	39	55.8
21	7	iP	10	41	51.9			iS		47	40
		eS	10	49	18			iX		49	37.6
22	7	eP	15	27	01	53	18	iP	06	52	11.0
23	8	Nil.				54	19	ePKP	17	28	26
24	9	iP	11	02	57.0			ipPKP		28	38.1
		e(S)	11	10	25	55	20	iP	00	32	16.8
25	9	iP	11	29	56.5	56	20	iP	09	02	56.9
26	9	eP	21	18	38			iX		03	35.0
27	10	iP	03	36	40.0			eS		07	27
		ipP		37	42.2	57	20	eP	20	21	59
		iS		40	56.0	58	20	iP	21	22	13.8
28	10	iP	06	44	18.0	59	21	eP	05	56	23
29	10	eP	13	15	42	60	21	iP	06	57	08.0
30	10	iP	14	50	13.1	61	21	eP	08	40	12
31	10	eP	22	08	24	62	21	eP	12	44	27
32	11	eP	00	58	31	63	21	iP	13	17	46.5
		eS	01	07	33			ipP		18	03.3

No.	Date	Phase	Time (GMT)			No.	Date	Phase	Time (GMT)
64	21	iP	22	13	42.8				
65	22	eP	10	41	44				
66	22	eP	12	04	42				
67	23	Nil.							
68	24	eP	09	15	46				
69	24	iP	11	27	03.3				
		eS	11	34	08				
70	24	iP	14	32	56.9				
71	24	iP	21	13	06.1				
72	25	eP	20	28	48				
73	26	iP	05	41	04.0				
74	26	eP	16	30	39				
		iX			44.0				
75	27	iP	03	00	32.4				
76	27	iP	09	08	04.1				
77	28	iP	05	53	22.1				
		eS		59	49				
78	28	eP	07	25	04				
79	28	iP	09	13	13.1				
		iX		18	05.0				
		iS		20	41				
80	28	iP	18	11	14.5				
81	29	eP	12	00	09				
82	29	eP	23	11	57				
83	30	eP	01	25	19				
84	30	iP	13	41	48.6				
85	30	iP	15	11	57.1				
86	30	eP	22	14	09				
87	31	iP	17	50	10.8				
		iX		56	23.5				
		iS	18	00	34.0				
88	31	iP	19	04	24.0				
89	31	iP	19	27	21.5				

P.M. McGregor
Observer-in-Charge.