

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS

MUNDARING GEOPHYSICAL OBSERVATORY

AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MUNDARING

JAN 1973

CODE MUN

LATITUDE 31°58.7' S

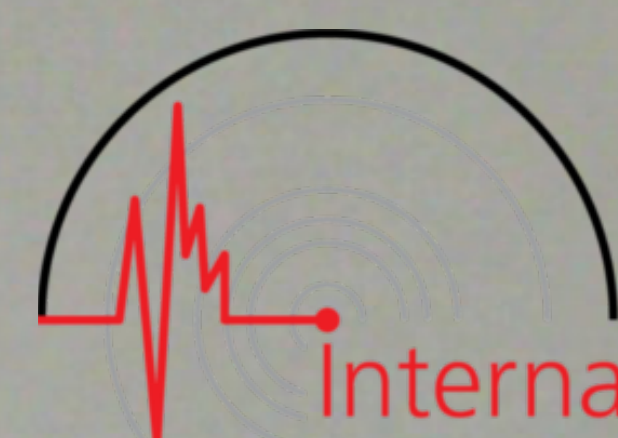
LONGITUDE 116°12.5' E

ELEVATION 253 m

FOUNDATION Precambrian granite

COMPONENT	To (Seconds)	Tg (Seconds)	MAGNIFICATION	
			at To	Peak
SP Z	1.0	0.75	25K	43K at 0.6 Sec.
SP N	1.0	0.75	25K	43K at 0.6 Sec.
SP E	1.0	0.75	25K	43K at 0.6 Sec.
LP Z	15	100	750	800 at 25 Sec.
LP N	15	100	375	400 at 25 Sec.
LP E	15	100	375	400 at 25 Sec.
SP Z	1.0	0.04	6K	160K at 0.3 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073
AUSTRALIA



Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
<u>MUNDARING (MUN)</u>						
January.						
*01	eP		03 53 34			
*02	iP	C	00 58 10.1			
	eS		01 01 59			
02	eP		02 33 51			
02	eP		04 45 45			
*02	iP	D	13 10 35.3			
*02	iP	C	22 36 55.8			
*03	eP		02 36 32			
*03	eP		03 16 06			
*03	iP	C	04 18 10.8			
*03	eP		17 54 15			
*04	iP	C	01 16 26.0			
*04	iP	C	04 15 43.5			
*04	iP	D	10 21 26.5			
*04	eP		19 16 14			
*05	eP		02 04 10			
*05	iP	C	10 15 07.0			
*05	iP	D	14 02 53.0	1.0	2280mu	3.4
*05	eP		21 37 36			
*06	iP	D	03 41 09.2			
*06	iP	D	05 10 12.0			
*06	iP	D	05 29 38.2			
*06	iP	D	08 06 47.3			
*06	iP	C	13 01 13.7			
*06	iP	D	15 41 51.4			
*06	iP	D	16 01 24.4			
*06	eP		22 24 28			
*07	eP		01 23 22			
*07	eP		01 40 53			
*07	eP		07 23 41			
*07	iP	C	12 50 53.2			
*07	eP		16 48 23			
*08	eP		08 52 10			
*08	iP	C	10 33 23.1			
*08	eP		23 25 23			
*09	iP	C	06 21 55.8			
*09	iP	D	10 48 33.2			
*09	eP		21 16 46			
*10	eP		03 36 43			
*10	iP	C	04 42 55.8			
*10	iP	C	11 04 28.7			
	e		06 48			
*10	iP	D	11 41 00.0	0.9	88mu	2.0
*10	eP		11 55 15			
10	eP		20 29 22			
11			Nil			
*12	iP	D	03 23 15.2			
	e		27 44			
*12	iP	C	09 27 43.7			
*13	iP	D	02 46 19.3			
13	eP		08 11 36			
	eS		14 15			

Regional

Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
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MUNDARING (MUN) Cont.

January

*13	eP		11 16 42			
*13	eP		14 26 24			
*14	eP		11 23 18			
*14	iP	C	17 14 55.3			
*14	iP	D	20 17 23.6			
*15	iP	C	02 05 54.2			
*15	eP		03 29 25			
*15	iP	D	08 24 35.1			
*15	iP	D	09 12 38.8			
*15	eP		13 07 31			
*15	iP	C	17 15 06.7			
*15	eP		23 32 46			
*16	iP	C	04 12 02.9			
*16	eP		05 49 40			
*16	iP	C	09 53 45.9			
*16	iP	D	21 43 05.9			
17	eP		01 54 23			
*17	eP		02 30 53			
*17	eP		08 17 59			
*17	iP	D	09 54 47.1			
*17	iP	D	20 43 48.1	0.5	30mu	1.7
*17	iP	C	21 02 22.7			
*18	eP		03 48 23			
*18	iP	D	03 52 51.0			
*18	iP	C	09 35 53.2	LZ 20.0	197 u	
*18	eP		10 25 44			
*18	iP	C	13 34 45.8			
*18	eP		16 28 29			
*19	iP	D	08 12 32.0			
*19	iP	C	11 59 45.6			
*19	eP		23 55 58			
*20	eP		08 16 54			
*20	eP		13 08 39			
*20	eP		18 32 21			
*20	eP		23 20 41			
*20	eP		23 26 17			
*21	iP	D	00 05 25.9	0.8	60mu	1.9
	eS		09 35			
21	iP	D	11 40 03.1			
	iS		40 13.4			
*21	iP	C	20 31 16.0	0.9	158mu	2.3
*22	eP		08 29 07			
*22	iP	C	13 45 57.4			
*22	eP		18 14 03			
*22	iP	C	23 53 11.0	LZ 20.0	15 u	
				LN 20.0	7 u	
				LE 20.0	10 u	
*23	iP	C	04 58 33.3	LZ 20.0	45 u	
				LN 20.0	0 u	
				LE 20.0	22 u	
*24	iP	C	11 25 03.8			
*24	eP		11 29 50			

Meckering
ML = 2.0

Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
MUNDARING (MUN) Cont.						
January.						
*24	eP		19 01 57			
*24	iP	D	20 11 53.5			
*25	eP		08 00 48			
*25	eP		09 58 06			
*25	iP	C	13 25 23.0			
*25	eP		16 08 10			
*25	eP		16 11 36			
*26	iP	C	21 40 17.8			
*27	iP	C	13 15 10.4			
27	iP	C	16 16 40.2			
	iS		16 50.6			
*27	eP		18 34 27			
*27	eP		20 48 39			
*28	iP	D	08 26 49.8			
*28	iP	D	17 44 36.2			
*28	iP	C	17 51 52.2	LZ 20.0	21 u	
				LN 20.0	0 u	
				LE 20.0	5 u	
*28	eP		23 12 07			
*29	eP		07 53 32			
*29	eP		08 28 21			
*29	eP		10 17 36			
*29	eP		14 36 30			
*30	eP		03 40 37			
*30	iP	C	21 20 44.7	LZ 20.0	197 u	
				LN 20.0	31 u	
				LE 20.0	123 u	
*30	iP	C	22 41 13.5			
*31	eP		07 32 07			
*31	eP		07 35 58			
*31	eP		11 30 54			
*31	eP		18 21 45			
*31	iP	D	21 05 36.3	LZ 20.0	19 u	
				LN 20.0	17 u	
				LE 20.0	11 u	

Meckering
ML = 2.4

* Sent by telegram to N.O.A.A.

~~MUNDARING GEOPHYSICAL OBSERVATORY~~

AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MUNDARING

FEB 1973

CODE MUN

LATITUDE $31^{\circ}58.7' S$ LONGITUDE $116^{\circ}12.5' E$

ELEVATION 253 m

FOUNDATION Precambrian granite

COMPONENT	To (Seconds)	Tg (Seconds)	MAGNIFICATION	
			at To	Peak
SP Z	1.0	0.75	25K	43K at 0.6 Sec.
SP N	1.0	0.75	25K	43K at 0.6 Sec.
SP E	1.0	0.75	25K	43K at 0.6 Sec.
LP Z	15	100	750	800 at 25 Sec.
LP N	15	100	375	400 at 25 Sec.
LP E	15	100	375	400 at 25 Sec.
SP Z	1.0	0.04	6K	160K at 0.3 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073
AUSTRALIA

Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
<u>MUNDARING (MUN)</u>						
February.						
*01	iP	D	02 51 58.9			
*01	iP	C	05 33 57.0			
*01	iP	C	05 36 48.7			
*01	iP	D	07 37 48.1	0.6	88mu	2.1
*01	eP		08 21 48			
*01	eP		08 31 48			
*01	eP		13 27 39			
*01	eP		22 20 37			
*02	iP	D	01 32 47.7			
*02	iP	D	02 06 04.3			
*02	iP	C	06 50 43.4			
*02	iP	C	08 32 47.5			
*02	eP		10 34 37			
*02	eP		17 33 21			
*03	eP		00 47 45			
*03	eP		07 39 04			
Mt. Newman blast.						
*03	eP		15 43 00			
*04	eP		00 16 18			
Mt. Newman blast.						
*04	eP		14 21 15			
*04	iP	C	22 45 42.8			
*05	eP		06 14 24			
*05	eP		11 28 21			
*05	eP		23 02 04			
*06	eP		04 09 36			
*06	eP		05 40 04			
*06	iP	D	10 04 29.0			
*06	eP		10 47 48	LZ LN LE	20.0 20.0 20.0	75 u 38 u 17 u
*06	eP		11 40 16			
*07	iP	C	05 40 13.2			
*07	eP		05 53 34			
*07	eP		06 29 27			
*07	iP	C	08 13 56.7	0.9	81mu	2.0
*07	iP	D	09 58 30.5	0.6	160mu	2.4
*07	eP		15 19 28			
*07	e		22 55			
*07	iP	D	16 17 02.7	1.1	75mu	1.8
	ipP		17 08.6			
	eS		25 56			
	eSS		30 48			
*08	iP	C	10 13 45.2	LZ	20.0	86 u
	e		17 44			
*08	eP		12 38 03			
*08	iP	C	13 03 35.0			
*09	eP		04 37 52			
*09	iP	D	10 13 03.7			
*10	iP	D	04 35 04.0			
	e		35 29			
*10	eP		05 23 18			
*10	eP		08 04 58			
*10	eP		10 58 20			
*10	eP		14 47 29			

Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
<u>MUNDARING (MUN)</u> Cont.						
February.						
*10	eP		22 18 46			
*10	iP	D	22 42 32.2	0.9	52mu	1.7
*11	eP		01 51 30			
*11	eP		09 02 18			
*11	iP	C	10 39 57.5			
*11	iP	C	11 25 26.3			
*11	eP		12 39 35			
*12	eP		04 25 19			
*12	eP		09 12 57			
*13	iP	D	11 23 12.6			
*13	iP	C	14 06 45.2	0.6	112mu	2.2
*13	iP	D	15 32 11.9	0.7	800mu	3.1
*13	iP	D	18 10 21.7			
	e		12 48			
*13	iP	C	00 58 39.0	1.0	140mu	2.2
*14	iP	C	05 00 21.2			
14	eP		09 27 21			
14	eP		09 32 52			
*14	iP	C	09 41 23.0			
*14	iP	C	11 29 37.7			
*14	eP		15 28 03			
*14	eP		16 20 51	LZ	20.0	31 u
				LN	20.0	0 u
				LE	20.0	21 u
*15	iP	C	00 35 39.2			
*15	eP		04 09 34			
*15	eP		05 37 21			
*15	iP	D	08 03 12.0			
*15	eP		11 24 02			
*15	eP		13 24 45			
*15	iP	C	20 10 23.0			
*16	iP	C	05 01 43.2			
*16	eP		05 15 51			
16	iP	C	13 27 10.4			
	iS		27 28.0			
*16	eP		13 55 14			
*16	iP	D	23 45 59.5	0.9	84mu	2.0
*17	iP	C	14 27 51.9			
	iS		28 09.4			
*17	eP		22 24 35			
*17	eP		22 45 12			
*18	iP	D	03 50 48.1			
	eS		55 53			
*18	iP	C	17 58 42.1	1.0	40mu	1.6
*18	eP		18 19 01			
19	eP		08 53 13			
*20	eP		07 19 55			
*20	iP	D	09 18 23.1			
*21	iP	D	12 22 34.0	1.0	64mu	1.8
*21	iP	C	14 51 06.5			
*21	iP	D	16 30 27.5	0.8	60mu	1.9
*21	eP		23 59 48			

Manmanning
ML 2.3

Manmanning
ML 2.5

Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
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MUNDARING (MUN) Cont.

February.

*22	iP	D	16 30 17.6	0.7	54mu	1.9
*22	eP		23 59 48			
*23	eP		02 36 25			
*23	eP		04 45 50			
*23	iP	C	11 15 59.8			
*23	eP		16 26 59			
*23	eP		18 55 24			
*23	iP	C	19 56 40.4			
*23	iP	D	21 06 23.1			
*24	iP	C	07 47 06.5			
*24	iP	C	11 23 18.0			
*24	iP	C	17 44 27.6			
*24	eP		22 43 36			
*25	eP		03 48 45			
*25	iP	C	05 48 28.8			
*25	eP		10 38 22	LZ 20.0	23 u	
				LN 20.0	10 u	
				LE 20.0	13 u	
*26	iP	D	10 03 26.8			
*26	iP	D	11 00 48.0	0.6	48mu	1.9
*26	iP	C	14 35 29.8			
	iS		35 39.0			
*26	eP		22 04 11	LZ 20.0	8 u	
				LN 20.0	3 u	
				LE 20.0	5 u	
*27	eP		09 16 21			
*28	eP		06 35 45			
*28	eP		08 15 24			
*28	eP		13 13 47			
	eS		17 15			
28	iP	C	22 42 29.9			
	iS		42 47.2			

Meckering
ML = 3.0

Manmanning
ML 2.8

* Sent by telegram to N.O.A.A.

5 MAR 1973

CODE MUN

LATITUDE 31°58.7' S

LONGITUDE 116°12.5' E

ELEVATION 253 m

FOUNDATION Precambrian granite

COMPONENT	To (Seconds)	Tg (Seconds)	MAGNIFICATION at To Peak
SP Z	1.0	0.75	25K 43K at 0.6 Sec.
SP N	1.0	0.75	25K 43K at 0.6 Sec.
SP E	1.0	0.75	25K 43K at 0.6 Sec.
LP Z	15	100	750 800 at 25 Sec.
LP N	15	100	375 400 at 25 Sec.
LP E	15	100	375 400 at 25 Sec.
SP Z	1.0	0.04	6K 160K at 0.3 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073
AUSTRALIA

Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
<u>MUNDARING (MUN)</u>						
March.						
01			Nil			
02	eP		02 36 07			
*03	iP	C	00 51 33.4	0.7	27mu	1.6
04	eP		13 19 47			
*04	eP		22 12 28			
*05	eP		17 06 45			
*05	eP		23 25 16			
*05	iP	C	23 27 48.4			
*06	eP		04 07 27			
*06	eP		07 45 39			
*06	eP		21 25 05	0.6	33mu	1.7
*07	eP		03 16 35			
*07	eP		13 04 14			
07	iP	C	19 54 17.9			S Meckering
	eS		54 27			
	eL		54 30			
*08	eP		13 27 17			
*08	eP		14 45 25			
*09	iP	C	10 14 05.2	LZ 20.0	19 u	
*09	eP		15 34 07			
*09	iP	C	19 15 10.1	0.7	22mu	1.5
*10	eP		01 34 31			
*10	eP		03 12 36			
*10	iP	C	10 00 41.4			
*10	eP		18 27 13			
*10	iP	C	19 43 34.9			
11	iP	C	02 41 02.4			Meckering
	iS		41 15.0			ML 2.8
*11	eP		16 07 33			Lake McKay
	iS		10 00.4			
*12	iP	D	06 02 02.6			
*12	iP	D	12 46 12.5			
13	iP	C	01 50 36.6			
*14	eP		06 15 32			
*14	iP	C	11 33 39.8	1.0	320mu	2.5
*14	eP		22 29 00			
*14	eP		23 43 39			
*15	iP		02 12 34.0			
*16	iP	D	00 58 43.1			
*16	iP	D	02 19 16.1			
*17	eP		03 47 46			
*17	eP		05 05 34			
*17	iP	D	05 05 41.3	1.1	600mu	2.8
*17	iP	C	08 39 09.2	LZ 20.0	43 u	
				LN 20.0	23 u	
				LE 20.0	34 u	
*17	iP	D	15 46 45.0	1.0	160mu	2.2
*17	eP		22 34 48			
*17	eP		23 22 14			
*18	iP	C	11 13 08.0	LZ 20.0	20 u	
				LN 20.0	11 u	
				LE 20.0	17 u	
*18	eP		11 30 38			
*18	eP		12 11 00			

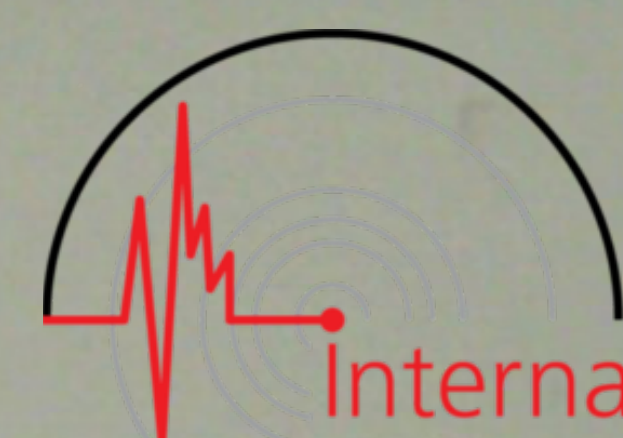


Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
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MUNDARING (MUN) Cont.

March.

*18	iP	D	19 55 04.0				
*18	iP	C	21 30 03.2				
19	iP	C	00 28 43.9				Manmanning
	iS		29 01.0				ML 2.2
*19	eP		04 48 51				
*19	eP		09 13 16				
*20	eP		01 18 51				
*20	eP		01 44 45				
*20	iP	C	16 36 08.2				
*20	iP	C	19 14 02.2	LZ 20.0	6 u		East of Java
				LN 20.0	16 u		mB = 6.4
				LE 20.0	40 u		MS = 6
21			Nil				
*22	iP	C	01 17 41.1				
*22	eP		11 38 09				
	iS		42 29.6				
*22	eP		17 25 16				
*22	iP	C	18 47 20.8				
*22	eP		21 21 00				
*22	iP	C	22 46 33.7				
*23	iP	C	05 59 40.8				
*23	eP		07 09 03				
*23	iP	D	19 25 33.4	1.0	56mu	1.7	
*23	eP		19 53 09				
*23	iP	C	21 46 58.9				
*24	iP	D	00 37 07.0				
*24	eP		00 45 35				
*24	eP		05 57 51				
*24	eP		12 56 37				
25	eP		06 13 18				Perenjori
	eS		13 49				ML = 2.7
25	eP		06 14 40				Manmanning
	eS		14 57				
*25	eP		10 01 14	1.0	40mu	1.6	
25	eP		17 01 40				
	eS		02 34				
25	eP		21 25 30				
*25	eP		22 12 51				
26	eP		05 18 47	1.0	60mu	1.8	
26	eP		10 31 57				
	eS		32 08				
27	eP		03 12 50				
	eS		13 09				
*27	iP	D	15 11 08.5				
	eS		16 28				
*28	eP		16 52 24				
28	eP		20 01 01				
	eS		01 11				
*28	iP	C	22 36 36.3				
29			Nil				
*30	eP		03 22 25				



Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
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MUNDARING (MUN) Cont.

March.

30	eP		03 59 56			
*30	iP	D	21 59 06.1			
*30	iP	D	01 45 26.0			
31	iP	D	02 45 13.0			
	iS		45 21.9			
31	iP		11 07 45.5			
	iS		08 02.2			
*31	eP		11 56 55			

Meckering
ML = 2.0
Manmanning

* Sent by telegram to N.O.A.A.

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS
MUNDARING GEOPHYSICAL OBSERVATORY



AUSTRALIA

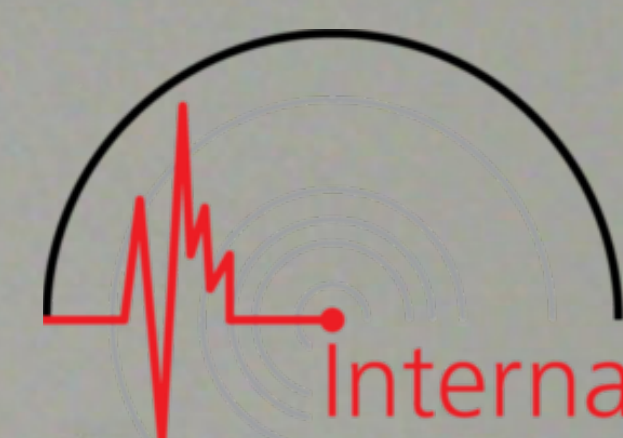
PRELIMINARY SEISMOLOGICAL BULLETIN

MUNDARING

• / APR 1973

		CODE MUN			
LATITUDE 31°58.7' S				LONGITUDE 116°12.5' E	
ELEVATION 253 m		FOUNDATION		Precambrian granite	
COMPONENT	To (Seconds)	Tg (Seconds)	MAGNIFICATION at To Peak		
SP Z	1.0	0.75	25K	43K	at 0.6 Sec.
SP N	1.0	0.75	25K	43K	at 0.6 Sec.
SP E	1.0	0.75	25K	43K	at 0.6 Sec.
LP Z	15	100	750	800	at 25 Sec.
LP N	15	100	375	400	at 25 Sec.
LP E	15	100	375	400	at 25 Sec.
SP Z	1.0	0.04	6K	160K	at 0.3 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073
AUSTRALIA



Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T	
<u>MUNDARING (MUN)</u>							
April.							
01	iP	D	12 26 14.6				
	iS		26 25.3				Meckering
02	iP	D	14 23 31.8	0.5	104mu	2.3	ML = 1.5
	iS		23 44.2				Dowerin
*03	iP	D	03 01 36.0				ML = 3.0
*03	iP	D	14 13 31.0				
*04	eP		00 33 24				
*04	eP		10 01 08				
*05	iP	C	03 10 43.6				
	e		15 13				
*05	eP		04 40 22				
06	eP		10 03 54				
07	iP	C	03 09 16.9	0.9	140mu	2.2	
07	eP		05 38 14				
07	eP		12 34 58				
07	iP	D	16 47 48.8				
07	eP		18 24 20	0.6	75mu	2.1	
*08	eP		03 27 44				
08	eP		04 31 40				
*08	eP		12 49 47				
	e		51 51				
	eS		56 52				
	e		00 20				
08	eP		16 19 43				
	iS		19 52.5				
*08	eP		20 58 31				
*08	eP		22 59 14				
*09	eP		03 37 19				
	e		37 25				
*09	eP		15 02 27				
*10	iP	C	07 44 54.7				
*10	eP		08 20 49				
10	iP	D	19 00 11.3				
	iS		00 21.5				Meckering
*10	iP	C	20 00 50.1				
	eS		04 43				
11	eP		02 13 45				
*11	iP	D	09 24 47.4				
*11	eP		09 29 39				
11	iP	C	09 41 43.7				
	eS		41 53				Meckering
*12	eP		12 11 48	1.0	100	2.0	
*12	eP		12 45 29				
*12	eP		14 02 11				
*13	eP		04 11 19				
*13	iP	C	20 03 06.8				
*14	eP		08 53 48				
*14	eP		09 14 20				
*14	eP		16 25 09				
*14	eP		20 12 57				
*15	iP	D	03 43 01.0				
*15	eP		06 19 52				
16			Nil				
*17	iP	D	12 40 53.5				
17	iP	C	14 29 19.8				



Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
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MUNDARING (MUN)

April,

*18	iP	C	18 36 11.6			
*18	eP		19 10 09			
*19	eP		00 35 25			
20			Nil			
*21	iP	C	05 19 07.8			
*21	iP	C	14 19 36.5			
*21	eP		21 17 35			
*22	iP	C	01 58 05.1			
*22	iP	C	02 00 01.2			
*23	iP	D	14 20 31.7			
*24	iP	C	04 00 07.7			
*24	iP	D	19 02 06.7			
*24	eP		21 49 51			
*25	eP		14 32 13			
*25	eP		21 47 00			

LZ	20.0	9 u
LN	20.0	6 u
LE	20.0	3 u

*26	iP	D	08 02 48.0			
*26	eP		10 29 11			
26	iP	D	20 20 43.2			
	iS		20 53.2			
*27	eP		22 37 33			
28			Nil			
*29	eP		01 05 20			
*29	iP	D	18 46 56.0			
30	iP	D	00 58 55.2			
	iS		59 04.5			
*30	iP	D	08 48 08.2			

Meckering
ML = 2.1

Meckering
ML = 3.3

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS
MUNDARING GEOPHYSICAL OBSERVATORY
AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MUNDARING

MAY 1973

CODE MUN

LATITUDE $31^{\circ}58.7' S$

LONGITUDE $116^{\circ}12.5' E$

ELEVATION 253 m

FOUNDATION Precambrian granite

COMPONENT	To (Seconds)	Tg (Seconds)	MAGNIFICATION		
			at To	Peak	
SP Z	1.0	0.75	25K	43K	at 0.6 Sec.
SP N	1.0	0.75	25K	43K	at 0.6 Sec.
SP E	1.0	0.75	25K	43K	at 0.6 Sec.
LP Z	15	100	750	800	at 25 Sec.
LP N	15	100	375	400	at 25 Sec.
LP E	15	100	375	400	at 25 Sec.
SP Z	1.0	0.04	6K	160K	at 0.3 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING. W.A. 6073.
AUSTRALIA.

Date 1973	Phase	Dir.	G.M.T.	Per. (Sec.)	Amp.	LogA/T
<u>MUNDARING(MUN)</u>						
May.						
*01	iP	C	07 52 22.2			
*01	eP		10 48 07			
*02	eP		01 33 41			
*02	eP		05 51 30			
	e		55 12			
*02	eP		02 55 58			
	eS		56 33			
03			Nil			
*04	eP		11 34 09			
*04	iP	D	19 40 28.1			
*05	iP	C	00 02 49.2	1.0	160mu	2.2
*06	eP		16 05 37			
07			Nil			
*08	eP		22 09 43			
*09	eP		14 24 07			
10	eP		08 29 50			Regional
	eS		30 35			
*11	eP		00 14 07			
11	eP		09 07 54			Mukinburnin
	eS		08 21			
	e		08 25			
*11	eP		10 52 10			
*11	eP		19 54 24			
11	eP		22 18 53			
11	eP		23 29 12			
12	eP		05 12 31			Explosion
	eS		12 33			
*12	eP		05 53 20			
12	eP		08 00 02			
*12	iP	D	16 28 16.8			
	e		34 46			
13	eP		06 35 22			Meckering
	eS		35 33			
*14	iP	C	06 09 05.6			
*14	eP		17 20 47	LZ 20.0 LN 20.0 LE 20.0	3 u 0 u 1 u	
*14	eP		21 24 51			
15	iP	D	11 44 30.5			Meckering
	iS		44 41.2			ML = 2.4
*16	eP		01 31 34			
*17	iP	D	15 25 08.0			
*17	eP		15 55 18			
*17	eP		16 32 18			
*17	iP	C	19 28 03.5			
*18	iP	D	13 27 58.9			
19	iP	D	02 18 00.3			Meckering
	iS		18 10.9			ML = 2.2
*19	eP		18 35 04			
20-21			Nil			
*22	eP		17 15 47			
*22	iP	D	22 12 20.9			
23			Nil			
*24	cP		05 06 51			
*24	cP		18 22 19			
*24	eP		19 53 49			
*25	cP		07 56 34			



Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
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MUNDARING (MUN) Cont.

May.

*25	eP		16 36 17			
26			Nil			
*27	iP	D	06 47 32.5			
28			Nil			
29			Nil			
*30	iP	C	04 57 21.4			
*31	iP	D	05 58 58.7			
*31	iP	D	23 50 01.6			

* Sent by telegram to N.O.A.A.

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS

MUNDARING GEOPHYSICAL OBSERVATORY

AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MUNDARING

JUN 1973

CODE MUN

LATITUDE 31°58.7' S
ELEVATION 253 m

LONGITUDE 116°12.5' E
FOUNDATION Precambrian granite

COMPONENT	To (Seconds)	T _g (Seconds)	MAGNIFICATION at To Peak		
SP Z	1.0	0.75	25K	43K	at 0.6 Sec.
SP N	1.0	0.75	25K	43K	at 0.6 Sec.
SP E	1.0	0.75	25K	43K	at 0.6 Sec.
LP Z	15	100	750	800	at 25 Sec.
LP N	15	100	375	400	at 25 Sec.
LP E	15	100	375	400	at 25 Sec.
SP Z	1.0	0.04	14K	340K	at 0.2 Sec.
LP N	0.8		2040		
SP E	0.8		2040		

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING. W.A. 6073.
AUSTRALIA

Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
<u>MUNDARING (MUN)</u>						
June.						
*01.	iP	D	07 27 31.3			
02			Nil			
*03	iP	C	00 09 19.7	1.0	220mu	2.3
*04	eP		09 32 31			
*04	iP	D	10 04 30.3			
*05	eP		01 34 17			
	eS		35 55			
*05	eP		03 21 11			
06	iP	D	03 05 06.9			
*07	eP		18 52 21			
08			Nil			
*09	iP	C	07 29 53.6	1.2	1770mu	3.2
				LZ 20.0	50 u	
				LN 20.0	20 u	
				LE 20.0	31 u	
*09	eP		22 05 50			
*10	iP	D	16 02 56.6			
*11	iP	C	10 22 39.5			
12			Nil			
*13	iP	D	09 44 39.4			
*13	iP	C	09 57 15.6			
*14	iP	D	03 40 32.9			
14	iP	D	08 44 14.1			
	eS		45 23.7			
*14	iP	C	11 07 23.2			
*14	eP		14 54 37			
	eS		41 27			
*15	eP		09 11 13			
*16	eP		07 34 09			
*16	iP	D	15 10 43.6			
	e		16 21			
*16	iP	D	23 18 57.7			
*17	iP	C	04 07 05.8	LZ 20.0	214 u	
				LN 20.0	120 u	
				LE 20.0	149 u	
*17	iP	D	11 48 37.5			
	eS		53 00			
*17	iP	C	20 49 58.5			
*18	eP		01 33 13			
*18	eP		17 57 46			
*18	iP	C	19 35 27.5	0.4	16mu	1.6 Regional
	eS		36 21			
19	iP	D	02 08 44.7			
*19	iP	D	03 42 29.4			
*20	iP	D	12 11 40.2			
21			Nil			
22	eP		04 07 25			
	eS		11 03			
*22	iP	D	22 55 36.0			
23	iP	D	16 35 25.1			
	iS		35 34.8			
*24	eP		02 55 31	LZ 20.0	43 u	
				LN 20.0	29 u	
				LE 20.0	46 u	
*24	eP		18 05 28			
25	eP		03 24 22			
*25	iP	C	07 28 43.9	1.0	130mu	2.1

Meckering

Meckering
ML = 2.2



Date 1973	Phase	Dir.	G.M.T.	Per. (Sec.)	Amp.	LogA/T
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MUNDARING (MUN) . Cont. (2)

June.

*25	iP	D	11 44 34.6			
*25	iP	D	16 06 32.6			
*25	eP		16 08 08			
*25	iP	C	20 54 15.5			
*26	eP		22 44 06			
*27	eP		11 32 18			
	eS		36 09			
*27	eP		12 26 18			
*27	iP	D	21 03 41.5			
*28	iP	C	14 19 44.0	1.0	300mu	2.5
*28	iP	D	20 29 09.1			
	i		29 54.0			
	e		34 59			
*29	iP	C	03 38 56.9			
29	iP	D	13 53 04.7			
	iS		53 22.2			
*29	eP		20 05 58			
	eS		09 42			
*30	iP	C	05 33 22.8			
30	eP		07 25 51			
	eS		26 16			
*30	iP	C	13 29 30.4			

Manmanning
ML = 2.5

Regional

* Sent by telegram to N.O.A.A.

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS

MUNDARING GEOPHYSICAL OBSERVATORY

AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MUNDARING

JUL 1973

CODE MUN

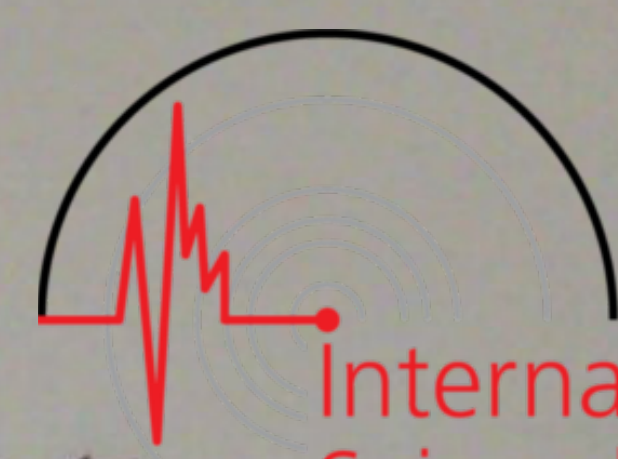
LATITUDE 31°58.7' S
ELEVATION 253 m

LONGITUDE 116°12.5' E
FOUNDATION Precambrian granite

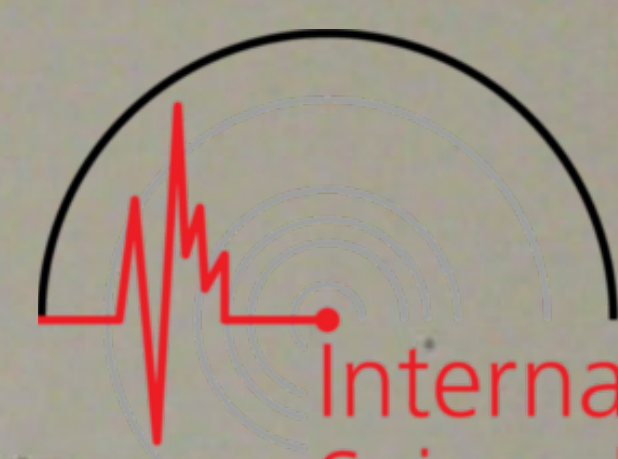
COMPONENT	To (Seconds)	Tg (Seconds)	MAGNIFICATION at To Peak		
SP Z	1.0	0.75	25K	43K	at 0.6 Sec.
SP N	1.0	0.75	25K	43K	at 0.6 Sec.
SP E	1.0	0.75	25K	43K	at 0.6 Sec.
LP Z	15	100	750	800	at 25 Sec.
LP N	15	100	375	400	at 25 Sec.
LP E	15	100	375	400	at 25 Sec.
SP Z	1.0	0.04	14K	340K	at 0.2 Sec.
LP N	0.8		2040		
SP E	0.8		2040		

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING. W.A. 6073.
AUSTRALIA

OCT 23 1973



Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T	
<u>MUNDARING (MUN)</u>							
July.							
*01	iP	C	13 52 31.1	1.0	200mu	2.3	
02			Nil				
*03	eP		06 45 46	1.0	60mu	1.8	
*03	eP		07 11 55	1.2	140mu	2.2	
03	eP		08 05 33				
03	eP		09 31 20				
*03	eP		17 18 31				Quarry blast
*04	iP	C	21 14 33.5	0.8	90mu	2.0	
*04	iP	C	23 59 33.9				
05	eP		08 06 41				Quarry blast
	eS		06 44				
*05	iP	C	19 32 03.2	1.0	80mu	1.9	
05	eP		22 54 33				
06			Nil				
*07	iP	D	15 48 21.5				
08			Nil				
*09	iP	C	16 28 22.4				
10	eP		01 26 06				Explosion
	eS		27 46				
*11	eP		04 22 42				
*11	iP	C	10 17 10.1				
	e		21 31				
*12	iP	C	12 09 26.1				
*13	eP		14 14 12	LZ LN LE	20.0 20.0 20.0	3 u 1 u 2 u	
14	eP		01 29 58				
	eS		30 04				
*14	eP		05 02 45				
*14	iP	C	05 27 07.0				
*15	eP		06 47 10				
*15	eP		21 48 47				
	eS		52 34				
*16	eP		05 47 36				
*16	eP		08 46 13				
*16	eP		13 13 18				
*17	eP		23 11 37				
*18	eP		22 24 09				
*19	eP		05 53 40				
20			Nil				
*21	eP		04 28 18				
*21	eP		09 31 30				
*21	eP		11 55 38				
*21	eP		19 22 31				
*22	eP		02 49 36				
*23	iP	C	01 35 50.5	0.8	240mu	2.5	
23	eP		04 54 50				Manmanning
	eS		55 08				
*23	iP	D	08 41 46.2				
*24	iP	C	05 14 44.1				
*24	eP		08 03 46				
*24	eP		11 21 11				
	eS		24 32				
*24	iP	D	13 04 17.5				
*24	eP		15 13 20				



Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
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MUNDARING (MUN) Cont. (2)

July.

*25	iP	D	06 17 07.0			
*25	eP		06 48 37			
*25	eP		18 36 04			
*25	iP	D	18 58 34.8			
*26	eP.		11 16 26			
	eS		19 54			
*27	eP		02 23 32			
	eS		28 55			
27	eP		20 02 13			
	eS		02 20			
*27	iP	C	20 33 41.8			
*28	eP		05 51 16			
	eS		55 20			
29			Nil			
30			Nil			
*31	iP	C	20 53 25.5			
*31	iP	C	22 00 58.0			

* Sent by telegram to N.O.A.A.

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS



MUNDARING GEOPHYSICAL OBSERVATORY

AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MUNDARING

8 AUG 1973

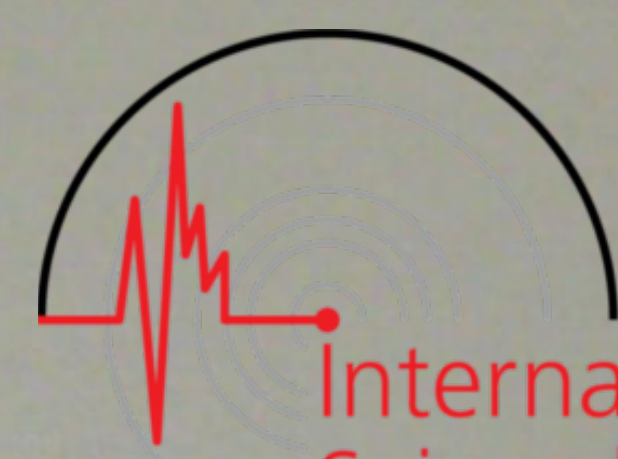
CODE MUN

LATITUDE $31^{\circ}58.7' S$
ELEVATION 253 m

LONGITUDE $116^{\circ}12.5' E$
FOUNDATION Precambrian granite

COMPONENT	To (Seconds)	Tg (Seconds)	MAGNIFICATION	
			at To	Peak
SP Z	1.0	0.75	25K	43K at 0.6 Sec.
SP N	1.0	0.75	25K	43K at 0.6 Sec.
SP E	1.0	0.75	25K	43K at 0.6 Sec.
LP Z	15	100	750	800 at 25 Sec.
LP N	15	100	375	400 at 25 Sec.
LP E	15	100	375	400 at 25 Sec.
SP Z	1.0	0.04	14K	340K at 0.2 Sec.
SP S	0.8	(Wood-Anderson)	1240	2040 $\angle$ 0.2 Sec.
SP E	0.8	(Wood-Anderson)	1240	2040 $\angle$ 0.2 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073
AUSTRALIA



Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
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MUNDARING (MUN)

August.

*01	iP	C	01 40 03.8			
02	eP		13 35 53			
*02	iP	C	21 45 19.4			
03			Nil			
*04	eP		01 04 33			
*04	iP	D	21 58 18.0			
*05	iP	C	15 58 14.6	0.9	400mu	2.6
06			Nil			
*07	eP		06 50 36	LZ 20.0 LN 20.0 LE 20.0	11 u 8 u 6 u	
*07	eP		14 41 40			
*07	iP	D	16 46 51.5			
*07	eP		22 53 03			
*08	iP	C	04 49 43.5			
*09	eP		09 46 29			
*09	eP		10 43 16			
*09	eP		10 56 31			
*09	iP	C	17 59 36.0			
*10	eP		14 37 44			
*10	eP		14 54 15			
*10	eP		22 25 31			
*11	iP	D	03 55 49.0			
*11	eP		07 26 23			
*11	eP		07 42 18			Explosion
*11	eP		13 11 19			
*11	iP	C	23 27 21.8			
12			Nil			
*13	eP		05 26 48			
*13	iP	D	08 35 27.3			
13	eP		11 49 14			
*14	iP	D	04 28 14.0			
*14	eP		09 33 30			
	eS		36 58			
15			Nil			
*16	iP	C	03 52 44.0			
17			Nil			
18	iP	D	07 46 58.9			Local
18	eP		08 33 51			
18	iP	D	19 50 41.9			
*20	eP		19 15 17			
	eS		18 44			
21			Nil			
*22	iP	D	06 48 41.6			
*22	iP	C	07 02 09.8			
*22	eP		09 34 03			
*22	eP		17 03 59			
*22	iP	C	18 33 00.8			
*23	iP	C	17 03 12.8			
*24	iP	D	20 26 28.8	0.9 LZ 20.0 LN 20.0 LE 20.0	84mu 13 u 3 u 9 u	2.0
*25	eP		03 53 06			
*25	eP		04 34 03			
*25	eP		22 32 28			



Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
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MUNDARING (MUN) Cont. (2)

August.

*26	eP		21 37 09	LZ	20.0	2 u
				LN	20.0	1 u
				LE	20.0	1 u
*27	eP		13 57 25	LZ	20.0	29 u
				LN	20.0	3 u
				LE	20.0	14 u
*27	eP		14 32 17			
*28	iP	D	10 10 13.0	LZ	20.0	22 u
				LN	20.0	6 u
				LE	20.0	14 u
*29	eP		08 00 44			
*30	eP		09 03 34			
*30	eP		18 45 15			
	e		45 23			
31			Nil			

* Sent by telegram to N.O.A.A.

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS

MUNDARING GEOPHYSICAL OBSERVATORY

AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MUNDARING

- SEP 1973

CODE MUN

LATITUDE $31^{\circ}58.7' S$

LONGITUDE $116^{\circ}12.5' E$

ELEVATION 253 m

FOUNDATION Precambrian granite

COMPONENT	To (Seconds)	Tg (Seconds)	MAGNIFICATION at To Peak
SP Z	1.0	0.75	25K 43K at 0.6 Sec.
SP N	1.0	0.75	25K 43K at 0.6 Sec.
SP E	1.0	0.75	25K 43K at 0.6 Sec.
LP Z	15	100	750 800 at 25 Sec.
LP N	15	100	375 400 at 25 Sec.
LP E	15	100	375 400 at 25 Sec.
SP Z	1.0	0.04	14K 340K at 0.2 Sec.
SP S	0.8	(Wood-Anderson)	1240 2040 $\angle$ 0.2 Sec.
SP E	0.8	(Wood-Anderson)	1240 2040 $\angle$ 0.2 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073
AUSTRALIA

DEC 3 1973



Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
MUNDARING (MUN)						
SEPTEMBER.						
*01	iP iS	D	14 04 18.6 04 28.4			
02			Nil			Meckering
*03	iP	D	03 32 45.2			
04	eP		07 26 04			
*04	eP		08 18 05			
*05	iP	C	03 53 46.2			
05	eP		08 13 03			
*05	eP		13 14 55			
06			Nil			
*07	iP	D	09 39 02.4	1.0	220mu	2.4
*07	iP	C	14 06 18.3	1.0	120mu	2.1
	e		06 30			
08			Nil			
09			Nil			
*10	eP		07 54 19			
*10	eP		20 58 34			
	eS		21 02 04			
*11	iP	D	23 28 28.7			
*12	iP	C	07 18 32.6			
*13	iP	C	06 27 32.5			
*14	eP		04 53 41			
*14	eP		08 24 08			
*15	eP		17 56 44			
*16	eP		05 12 40			
*16	eP		08 41 22			
16	iP	C	11 59 48.2			
	iS		59 58.0			Meckering ML = 2.1
*17	eP		07 32 07			
*18	eP		13 44 36			
*19	eP		22 07 04			
*20	eP		00 02 37			
*20	eP		20 50 39			
*21	eP		07 32 38			
*21	eP		07 50 07			
*21	iP	D	19 36 55.6			
21	iP	C	20 26 37.2			
*22	iP	C	05 09 40.0			
*22	eP		05 50 20			
*22	iP	C	12 46 00.0			
*22	eP		16 13 49			
22	eP		17 33 07			
23	eP		09 09 30			
	eS		09 48			
*23	eP		12 18 49			
*23	eP		13 31 52			
*23	eP		14 43 25			
*23	iP	C	16 48 28.5			
23	eP		16 58 30			
*23	eP		18 14 27			
*24	iP	D	10 49 05.2			
25	iP	D	02 29 58.8			
*25	eP		16 23 45			
*25	iP	D	20 41 37.9			
*25	iP	C	22 34 04.4			



Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
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MUNDARING (MUN) Cont. (2)

SEPTEMBER.

26	iP	D	00 31 20.9			
*26	eP		09 54 46			
*26	eP		16 34 07			
*27	eP		08 13 53			
*27	iP	D	10 07 07.7			
27	eP		20 36 37			
	eS		38 16.8			
*28	eP		13 00 08			
*29	iP	C	00 54 43.3			
29	iP	D	12 12 32.5			
*30	iP	C	04 43 53.0			
*30	eP		06 29 06			
*30	iP	C	10 17 20.5			

Red Hill.
Felt.

* Sent by telegram to N.O.A.A.

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS
MUNDARING GEOPHYSICAL OBSERVATORY
AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MUNDARING

OCTOBER 1973

CODE MUN

LATITUDE $31^{\circ}58.7' S$
ELEVATION 253 m

LONGITUDE $116^{\circ}12.5' E$
FOUNDATION Precambrian granite

COMPONENT	To (Seconds)	Tg (Seconds)	MAGNIFICATION at To Peak		
SP Z	1.0	0.75	25K	43K	at 0.6 Sec.
SP N	1.0	0.75	25K	43K	at 0.6 Sec.
SP E	1.0	0.75	25K	43K	at 0.6 Sec.
LP Z	15	100	750	800	at 25 Sec.
LP N	15	100	375	400	at 25 Sec.
LP E	15	100	375	400	at 25 Sec.
SP Z	1.0	0.04	14K	340K	at 0.2 Sec.
SP S	0.8	(Wood Anderson)	1240	2040	$\approx$ 0.2 Sec.
SP E	0.8	(Wood Anderson)	1240	2040	$\approx$ 0.2 Sec.

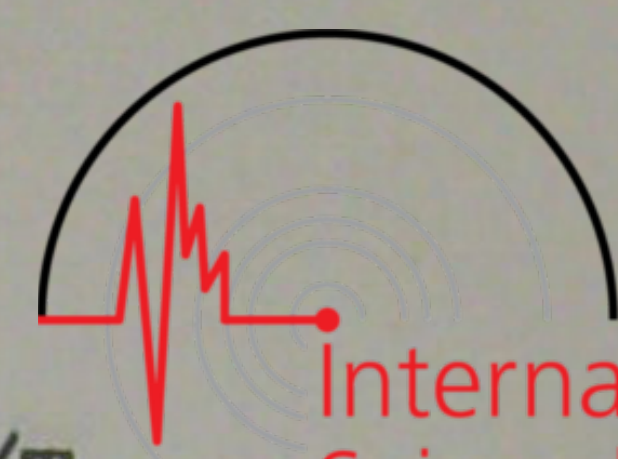
ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING W.A. 6073
AUSTRALIA

JAN 24 1974



Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
MUNDARING (MUN)						
OCTOBER.						
01	iP	C	07 47 15.9			
*01	iP	D	13 49 04.9			
*01	eP		14 27 37			
*01	iP	D	23 51 48.8			
	e		53 32			
*02	iP	D	12 28 21.5			
	i		28 33.5			
	eS		32 23			
*02	iP	D	21 24 50.2			
*02	iP	C	21 26 11.1			
02	iP	C	22 36 51.5			
03	iP	D	11 17 46.0			
03	iP	D	13 26 57.5			
04			Nil			
05			Nil			
*06	iP	D	15 19 51.1	LZ 20.0	51 u	
				LN 20.0	17 u	
				LE 20.0	20 u	
*06	iP	D	16 42 21.4			
07			Nil			
*08	iP	C	03 55 26.9	0.8	90mu	2.1
*08	eP		09 10 26			
*09	iP	C	04 02 12.9			
*09	iP	D	08 06 24.9	1.0	300mu	2.4
				LZ 20.0	97 u	
				LN 20.0	86 u	
				LE 20.0	57 u	
*09	eP		09 12 39			
*10	eP		05 50 04			
*10	eP		05 54 13			
*11	eP		10 00 01			
*12	eP		05 34 25			
*12	eP		05 45 13			
*13	eP		07 39 04			
*14	eP		14 07 50			
14	iP	C	22 14 54.6			
15			Nil			
*16	iP	C	12 46 06.6			
*17	eP		03 28 04			
*17	eP		20 44 49			
*17	eP		21 21 56			
*18	eP		01 28 53			
*19	eP		00 20 12			
*20	iP	C	14 43 52.9			
*20	iP	C	20 02 00.0			
21			Nil			
*22	eP		05 24 21			
*23	iP	D	11 24 55.1			
24			Nil			
*25	eP		04 45 20			
*25	iP	C	05 02 59.0			
*25	iP	D	14 27 03.2			
*26	eP		14 55 09			
*27	eP		07 14 35			
*27	iP	C	07 18 33.2	1.0	240mu	2.4
27	eP		07 29 29			
*27	eP		08 02 31			

Regional



Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
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MUNDARING (MUN) Cont. (2)

OCTOBER.

*27	eP		09 35 00			
*27	eP		22 15 28			
*28	eP		06 21 43			
	e		22 15			
	e		26 58			
*28	iP	D	13 53 58.8			
*28	eP		14 59 05			
*29	eP		05 32 37			
*30	eP		07 56 12			
*31	iP	D	00 13 00.5			
31	eP		04 43 07			
	eS		45 23			
31	iP	D	10 33 17.0			
	eS		33 26.6			

SE Bolgart
ML = 3.3

* Sent by telegram to N.O.A.A.

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS

MUNDARING GEOPHYSICAL OBSERVATORY

AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MUNDARING

NOVEMBER 1973

CODE MUN

LATITUDE $31^{\circ}58.7' S$

LONGITUDE $116^{\circ}12.5' E$

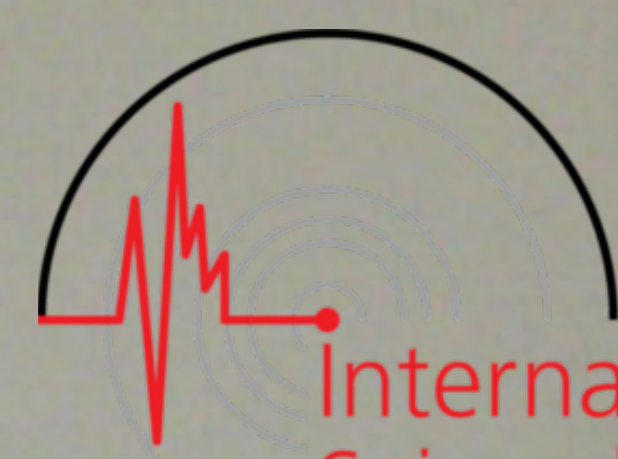
ELEVATION 253 m

FOUNDATION Precambrian granite

COMPONENT	(To (Seconds)	Tg (Seconds)	MAGNIFICATION at To Peak		
SP Z	1.0	0.75	25K	43K	at 0.6 Sec.
SP N	1.0	0.75	25K	43K	at 0.6 Sec.
SP E	1.0	0.75	25K	43K	at 0.6 Sec.
LP Z	15	100	750	800	at 25 Sec.
LP N	15	100	375	400	at 25 Sec.
LP E	15	100	375	400	at 25 Sec.
SP Z	1.0	0.04	14K	340K	at 0.2 Sec.
SP S	0.8	(Wood Anderson)	1240	2040	0.2 Sec.
SP E	0.8	(Wood Anderson)	1240	2040	0.2 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING. W.A. 6073
AUSTRALIA

JAN 29 1974



Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T	
MUNDARING (MUN)							
NOVEMBER.							
*01	eP		06 48 58	1.0	50mu	1.6	
*02	eP		03 08 18				
*02	iP	D	12 20 15.7				
*03	iP	D	18 55 55.4	0.6	38mu	1.8	
*04	iP	D	12 07 05.4	0.4	215mu	2.7	
*04	eP		19 17 17				
*05	eP		07 39 51				
*06	eP		05 28 03				
*06	eP		06 12 51				
*06	eP		17 57 04				
*07	eP		07 26 42				
*08	eP		06 06 18				
*08	eP		09 12 01				
*08	iP	C	17 29 54.2	0.6	50mu	1.9	
*08	eP		20 38 49				
*09	eP		08 19 11				
*09	eP		08 19 50				
*09	eP		23 34 40				
*10	iP	C	01 26 47.5				
*10	eP		09 29 54				
*10	iP	D	11 36 35.0	0.8	36mu	1.6	
*10	eP		20 05 51				
*11	eP		00 16 46				
*11	iP	C	02 55 56.5				
*12	iP	C	04 01 47.3				
*13	iP	D	22 40 41.7				
*14	iP	D	02 39 42.9				
*15	iP	C	23 26 58.1				
*16	eP		19 41 39				
*16	eP		23 14 16				
*17	iP	D	04 04 19.7				
	ipP		04 28.0				
*17	eP		11 00 38				
17	iP	D	14 31 26.0				Meokering
	eS		31 36.5				
17	iP	C	20 40 58.8				Meokering
	eS		41 08.6				ML = 2.9
18	iP	D	22 04 27.2				Meckering
	eS		04 38				
19	eP		11 47 07.0				Meokering
	i		47 08.2				
	eS		47 19				
*19	eP		13 13 29	1.0	64mu	1.8	
*19	iP	C	18 58 49.8				
19	eP		23 43 24.7				Meokering
	eS		43 34				
19	eP		23 43 59				Meokering
	eS		44 07				
20	iP	D	12 54 38.2	0.3	28mu	2.0	Meokering
	eS		54 48				ML = 1.9
*20	iP	C	19 17 27.9				
	e		17 33				
21	iP	D	04 46 27.9				Meokering
	iS		46 38.6				
*21	eP		13 51 13				
*21	eP		15 10 57	0.7	68mu	2.0	



Date 1973	Phase	Dir.	G.M.T.	Per. (sec.)	Amp.	LogA/T
<u>MUNDARING (MUN)</u>		Cont.	(2)			
NOVEMBER.						
*22	eP		00 51 07			
*22	eP		10 01 12			
*23	iP	C	11 16 24.3			
24	eP		02 42 36			
	eS		42 46			
*25	eP		04 35 41			
*25	eP		09 30 08			
*25	iP	C	16 24 10.5			
*25	eP		17 24 04	LZ 20.0	6 u	
				LN 20.0	3 u	
				LE 20.0	1 u	
*26	eP		05 31 51			
*26	iP	D	18 33 25.5	0.7	81mu	2.1
	eS		37 37			
*26	eP		22 38 18			
27			Nil			
28	iP	C	07 04 32.5	0.8	75mu	2.0
*28	iP	C	08 22 22.0			
*28	iP	D	11 06 24.0	0.5	34mu	1.8
*28	eP		21 55 06			
	e		56 28			
*29	eP		00 37 32			
*29	eP		04 15 36			
*29	eP		12 20 24			
*29	iP	C	12 25 52.0			
	i		26 17.1			
*29	eP		19 00 48			
*30	iP	C	07 58 05.0	0.9	52mu	1.8
*30	iP	C	08 18 33.3			
*30	eP		12 03 30			
*30	eP		17 05 38			

Meckering

* Sent by telegram to N.O.A.A.

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS

MUNDARING GEOPHYSICAL OBSERVATORY

AUSTRALIA

PRELIMINARY SEISMOLOGICAL BULLETIN

MUNDARING

DECEMBER 1973

CODE MUN

LATITUDE $31^{\circ}58.7' S$

LONGITUDE $116^{\circ}12.5' E$

ELEVATION 253 m

FOUNDATION Precambrian granite

COMPONENT	To (Seconds)	Tg (Seconds)	MAGNIFICATION		
			at To	Peak	
SP Z	1.0	0.75	25K	43K	at 0.6 Sec.
SP N	1.0	0.75	25K	43K	at 0.6 Sec.
SP E	1.0	0.75	25K	43K	at 0.6 Sec.
LP Z	15	100	750	800	at 25 Sec.
LP N	15	100	375	400	at 25 Sec.
LP E	15	100	375	400	at 25 Sec.
SP Z	1.0	0.04	14K	340K	at 0.2 Sec.
SP S	0.8	(Wood Anderson)	1240	2040	0.2 Sec.
SP E	0.8	(Wood Anderson)	1240	2040	0.2 Sec.

ADDITIONAL ENQUIRIES TO - OBSERVER-IN-CHARGE
GEOPHYSICAL OBSERVATORY
MUNDARING. W.A. 6073
AUSTRALIA

MAR 26 1974

DECEMBER 1973

Time	Lat	Long	Alt	Mag	Duration	ML	Notes
*01	iP	C	00 31 54.0				
*01	iP	D	18 00 59.4				
*01	eP		20 01 08				
*01	eP		21 25 13				
*02	iP	C	18 32 31.7				
*03	iP	D	02 08 33.0				
*03	iP	D	18 15 50.2				
*03	iP	D	19 43 44.5				
04	eP		01 30 17				
04	eP		02 24 53				
04	eS		25 43				
04	oP		09 33 05				
*04	iP	D	11 55 46.2				130km E Onslow mB 4.1
04	iP	C	12 58 40.0				500km SE Esperance mB 4.5
*04	oP		15 39 24				
*05	eP		04 21 27				
05	iP	D	09 49 35.7				
05	iP	D	17 49 18.3				
*05	eP		21 47 39				
06	iP	D	06 15 38.1				
	iS		15 47.4				Meokering ML = 2.6
*06	eP		14 49 27				
*06	eP		17 05 38				
*06	eP		18 04 29				
07	eP		22 39 56				
*08	eP		01 15 01				
*08	iP	C	04 55 11.9	0.8	70mu	2.0	
*08	eP		06 17 03				
08	eP		09 24 32				Koolyanobbin Explosion
*08	eP		12 56 51				
*09	eP		02 48 52				
*09	eP		20 04 32	LZ	20.0	320 u	
				LN	20.0	0 u	
				LE	20.0	180 u	
*09	eP		21 06 46				
*10	eP		19 43 18				
*10	iP	D	19 47 27.2	0.8	300mu	2.6	
*11	eP		01 35 02				
*11	eP		05 49 03				
*11	iP	C	08 19 26.3				
*11	eP		11 39 17				
12			Nil				
*13	eP		08 12 17				
*14	iP	C	07 59 50.1	0.7	70mu	2.0	
14	iP	D	14 25 57.8				
	iS		26 09.9				Brookton ML = 2.3
*15	eP		11 03 18				
*15	eP		23 05 54				
*16	iP	D	07 40 46.9				
*16	eP		09 55 02				
*17	iP	D	20 44 38.0				
*17	eP		22 06 44				
*18	eP		04 16 40				

Date 1973	Phase	Dir	G.M.T.	Per. (sec.)	Amp.	LogA/T
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MUNDARING (MUN) Cont. (2)

DECEMBER 1973

*19	eP		04 47 53	0.8	180mu	2.4
	eS		51 54	LZ 20.0	23 u	
				LN 20.0	20 u	
				LE 20.0	20 u	
*19	eP		13 05 43			
*20	eP		09 55 01			
*20	iP	C	13 44 08.0			
*21	eP		22 59 09			
*22	eP		01 31 08			
22	eP		14 49 55			Meckering
	eS		50 05			
*23	iP	C	23 53 27.2			
*24	eP		07 59 32			
*24	eP		08 24 38			
24	iP	C	13 24 16.0			Local
25			Nil			
*26	eP		01 52 13			
*26	eP		02 24 07			
*26	eP		20 41 07			
27			Nil			
*28	eP		03 18 15			
	eS		21 48			
*28	iP	D	05 39 55.5			
*28	eP		13 50 32			
*28	eP		16 17 02			
28	iP	D	16 47 19.2			Local
*28	eP		17 59 01			
*28	eP		21 14 22			
*28	iP	C	00 28 15.0			
*29	eP		15 46 31			
	eS		50 21			
*30	eP		11 20 54			
*30	eP		16 48 15			
*30	eP		17 52 31			
*31	eP		03 09 23			
*31	eP		20 07 27			

* Sent by telegram to N.O.A.A.