International Seismological Centre

# COMMONWEALTH OF AUSTRALIA

## Department of National Development

## Bureau of Mineral Resources, Geology and Geophysics

## MUNDARING GEOPHYSICAL OBSERVATORY

## SEISMOLOGICAL BULLETIN JANUARY 1971

### Seismograph Stations

| Station | Code | Lat. S | Long. E | Elevation (metres) | Foundation |
|---|---|---|---|---|---|
| Mundaring | MUN | 31° 58.7' | 116° 12.5' | 253 | Precambrian granite |
| Kalgoorlie | KLG | 30° 47.0' | 121° 27.5' | 350 | Alluvium over basic metasediments |
| Meekatharra | MEK | 26° 36.8' | 118° 32.7' | 515 | Archean sedimentary |
| Kununurra | KNA | 15° 45.0' | 128° 46.0' | 55 | Unweathered Sandstone |

### INSTRUMENTATION

| Station | Component | Seismometer | Ts (sec) | Ts (sec) | Magnification | Recording Speed |
|---|---|---|---|---|---|---|
| MUN | Z, N, E. | World Wide Standard Set | 1.0 | 0.75 | 25000 at 1 s. | 60 mm/min |
| | Z. | " " | 15.0 | 100 | 750 at 15s. | 15 |
| | N, E. | " " | 15.0 | 100 | 375 at 15s. | 15 |
| KLG | Z. | Willmore MkII | 1.0 | 0.75 | 16000 at 1 s. | 60 |
| | NE, SE. | Benioff | 1.0 | 0.25 | 37000 at 1 s. | 60 |
| MEK | Z. | Willmore MkII | 1.0 | 0.25 | 10000 at 1 s. (approx.) | 60 |
| KNA | Z. | Willmore MKI | 1.0 | 0.25 | 21000 at 1 s. | 60 |

### SYMBOLS

$M_L$ - Local earthquake magnitude

$M_S$ - Surface wave magnitude

Copies of Mundaring records can be obtained from the World Data Centre-A. Additional information and copies of seismogram records from all stations can be obtained on request from:

Observer-in-Charge,
Geophysical Observatory,
MUNDARING. W.A. 6073.

| Date 1971 | Phase | G.M.T. | Dir. | Per. (sec.) | Amp. | LogA/T | |
|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** | | | | | | | |
| January. | | | | | | | |
| 01 | iP | 08 05 04.0 | C | 0.8 | 90mu | 2.0 | |
| 02 | eP | 06 49 12 | | | | | |
| 02 | iP | 07 40 46.8 | C | | | | |
| 02 | eP | 19 26 15 | | | | | |
| 02 | eP | 22 28 57 | | | | | |
| 03 | iP | 06 32 28.4 | C | | | | |
| 03 | eP | 17 47 37 | | LZ 20.0 | 38 u | | |
| | | | | LN 20.0 | 18 u | | |
| | | | | LE 20.0 | 12 u | | |
| 03 | iP | 19 06 13.2 | D | | | | |
| 03 | iP | 19 15 08.3 | D | 0.3 | 55mu | 2.2 | Meckering ML = 2.4 |
| | iS | 15 18.6 | | | | | |
| 04 | iP | 07 12 32.3 | D | | | | |
| 04 | iP | 11 17 56.7 | D | | | | |
| 04 | eP | 14 04 49 | | | | | |
| 05 | iP | 03 44 53.4 | D | | | | |
| | eS | 48 58 | | | | | |
| 05 | iP | 08 13 50.6 | D | | | | |
| | eS | 17 54 | | | | | |
| 05 | iP | 21 22 42.3 | D | | | | Meckering ML = 2.0 |
| | iS | 22 52.3 | | | | | |
| 06 | eP | 01 53 13 | | | | | |
| 06 | eP | 09 01 24 | | | | | |
| | eS | 02 10 | | | | | |
| 06 | iP | 10 37 35.6 | C | | | | |
| 06 | iP | 12 04 30.9 | D | | | | Meckering ML = 1.8 |
| | iS | 04 40.3 | | | | | |
| 06 | iP | 21 05 07.6 | C | | | | |
| 06 | iP | 23 58 47.6 | D | | | | |
| 07 | iP | 03 39 19.8 | C | | | | |
| 07 | iP | 05 14 19.9 | C | | | | Meckering ML = 2.3 |
| | iS | 14 30.0 | | | | | |
| 08 | eP | 14 58 08 | | | | | |
| 09 | | Nil | | | | | |
| 10 | iP | 00 12 17.0 | | 0.3 | 5mu | 1.2 | Quairading ML = 2.1 |
| | eS | 12 30 | | | | | |
| 10 | iP | 07 24 05.1 | C | | | | |
| 11 | eP | 07 42 33 | | | | | |
| 11 | eP | 16 29 40 | | | | | |
| 11 | iP | 16 45 36.0 | C | 0.5 | 36mu | 1.8 | |
| 12 | iP | 08 10 53.3 | C | 0.9 | 57mu | 1.8 | |
| 12 | eP | 09 48 42 | | | | | |
| 12 | eP | 15 04 13 | | | | | |
| 13 | eP | 04 04 40 | | | | | |
| 13 | eP | 10 29 43 | | | | | |
| 13 | iP | 18 12 05.1 | C | | | | |
| 14 | iP | 02 22 21.3 | C | 0.3 | 150mu | 2.8 | Meckering ML = 2.3 |
| | eS | 22 30 | | | | | |
| 14 | iP | 09 28 49.8 | C | | | | |
| 14 | eP | 10 30 47 | | | | | |
| 14 | iP | 17 46 18.5 | C | 0.3 | 10mu | 1.5 | 150 kms N Carnarvon mb = 4.9 |
| | eS | 47 45 | | | | | |

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|---|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** Cont. | | | | | | | | |
| January. | | | | | | | | |
| 14 | iP | 18 14 26.2 | C | | | | | |
| 14 | eP | 22 53 20 | | | | | | |
| 15 | iP | 09 02 14.4 | D | 0.3 | | 40mu | 2.1 | Meckering ML = 2.2 |
| | iS | 02 25.0 | | | | | | |
| 16 | eP | 04 43 11 | | | | | | |
| 16 | eP | 09 57 24 | | | | | | |
| 16 | iP | 12 52 29.6 | C | 1.0 | | 200mu | 2.3 | |
| 16 | eP | 16 35 27 | | | | | | |
| 17 | eP | 13 25 02 | | | | | | |
| 18 | iP | 00 10 14.9 | C | | | | | |
| 18 | iP | 02 22 51.4 | C | | | | | |
| 18 | iP | 09 59 05.0 | C | | | | | |
| 18 | iP | 11 32 00.0 | D | 1.0 | | 80mu | 1.9 | |
| 18 | iP | 21 04 03.6 | D | | | | | |
| 19 | | Nil | | | | | | |
| 20 | iPKP | 05 04 48.6 | C | | | | | |
| 20 | eP | 06 13 23 | | | | | | |
| 20 | eP | 22 49 35 | | | | | | |
| 21 | iP | 06 24 49.1 | D | 1.1 | | 380mu | 2.5 | |
| 21 | iP | 12 33 19.5 | D | | | | | |
| 21 | iP | 17 24 39.5 | C | | | | | |
| | iPP | 25 31.5 | | | | | | |
| | iS | 28 53.0 | | | | | | |
| | iX | 29 30.5 | | | | | | |
| 22 | iP | 20 07 32.5 | C | 0.9 | | 77mu | 1.9 | |
| 23 | | Nil | | | | | | |
| 24 | iP | 12 05 07.8 | D | 0.3 | | 200mu | 2.8 | Meckering ML = 2.8 |
| 24 | iP | 18 08 40.7 | C | | | | | |
| 25 | iP | 00 25 54.8 | C | 1.0 | | 180mu | 2.3 | |
| | | | | 20.0 | LZ | 51 u | | |
| | | | | 20.0 | LN | 102 u | | |
| | | | | 20.0 | LE | 40 u | | |
| 25 | eP | 07 13 42 | | | | | | |
| 25 | iP | 17 02 20.8 | C | 0.9 | | 20mu | 1.4 | |
| 26 | iP | 20 28 50.6 | C | | | | | |
| 27 | eP | 03 00 40 | | | | | | |
| 27 | iP | 16 12 30.5 | D | | | | | |
| 27 | iP | 22 35 24.1 | C | | | | | |
| 27 | iP | 23 56 59.5 | C | | | | | |
| 28 | eP | 00 03 17 | | | | | | |
| 28 | iP | 06 38 12.0 | C | 0.8 | | 72mu | 1.9 | |
| 29 | eP | 03 23 07 | | | | | | |
| 29 | iP | 04 21 02.5 | D | | | | | |
| 29 | iP | 22 10 00.8 | D | 0.7 | | 440mu | 2.8 | |
| 30 | | Nil | | | | | | |
| 31 | | Nil | | | | | | |

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|---|---|---|---|---|---|---|---|
| **KALGOORLIE (KLG)** | | | | | | | |
| January. | | | | | | | |
| 01 | iP | 08 04 28.9 | D | | | | |
| 02 | eP | 07 40 39 | | | | | |
| 02 | iP | 19 26 15.0 | C | | | | |
| 02 | eP | 22 28 42 | | | | | |
| 03 | iP | 06 31 52.8 | C | | | | |
| 03 | iP | 17 47 55.5 | D | | | | |
| 03 | iP | 19 06 31.1 | C | | | | |
| 03 | iP | 19 16 03.4 | | | | | Meckering |
| | iS | 16 51.1 | | | | | |
| 04 | iP | 07 12 01.0 | D | | | | |
| 04 | iP | 11 17 26.2 | D | | | | |
| 04 | iP | 14 04 16.0 | C | | | | |
| 04 | eP | 21 19 40 | | | | | |
| 05 | iP | 03 45 00.3 | C | | | | |
| 05 | iP | 08 13 57.4 | C | | | | |
| 06 | iP | 06 15 24.7 | C | | | | |
| 06 | eP | 09 01 58 | | | | | |
| 06 | eP | 23 57 54 | | | | | |
| 07 | eP | 03 38 52 | | | | | |
| 08 | iP | 14 57 53.4 | C | | | | |
| 09 | | Nil | | | | | |
| 10 | iP | 00 13 05.7 | C | | | | Quairading |
| | eS | 13 52 | | | | | |
| 10 | iP | 07 23 32.0 | C | | | | |
| 10 | eP | 16 14 16 | | | | | |
| 10 | eP | 19 40 52 | | | | | |
| 10 | eP | 23 31 14 | | | | | |
| 11 | iP | 00 26 53.0 | C | | | | |
| 11 | iP | 07 42 00.5 | C | | | | |
| 11 | iP | 07 53 45.9 | D | | | | |
| 11 | eP | 15 55 45 | | | | | |
| 11 | iP | 19 16 08.9 | C | | | | |
| 12 | iP | 14 50 15.5 | C | | | | |
| 12 | iP | 15 03 37.6 | C | | | | |
| 12 | iP | 15 52 02.0 | C | | | | |
| 12 | iP | 21 34 45.0 | D | | | | |
| 13 | eP | 01 14 18 | | | | | |
| 13 | iP | 04 04 07.4 | C | | | | |
| 13 | iP | 10 29 15.3 | C | | | | |
| 13 | iP | 18 11 38.3 | C | | | | |
| 14 | iP | 02 23 07.1 | C | | | | Meckering |
| | eS | 24 03 | | | | | |
| 14 | iP | 09 28 30.1 | C | | | | |
| 14 | eP | 10 30 13 | | | | | |
| 14 | iP | 17 46 34.3 | | | | | 150km N |
| | iS | 48 16.5 | | | | | Carnarvon |
| 14 | iP | 18 13 51.9 | D | | | | |
| 14 | eP | 22 53 00 | | | | | |
| 15 | iP | 09 02 57.2 | C | | | | Meckering |
| | iS | 03 40.6 | | | | | |
| 16 | iP | 12 52 41.4 | C | | | | |
| 17 | iP | 13 24 29.2 | D | | | | |
| 17 | iP | 19 33 04.8 | D | | | | |
| 18 | iP | 02 22 27.2 | D | | | | |
| 18 | eP | 05 28 20 | | | | | |

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|---|---|---|---|---|---|---|---|
| **KALGOORLIE (KLG)** Cont. | | | | | | | |
| January. | | | | | | | |
| 18 | iP | 05 58 45.6 | C | | | | |
| 18 | eP | 11 31 26 | | | | | |
| 18 | iP | 20 22 40.7 | D | | | | |
| 18 | iP | 21 03 37.7 | C | | | | |
| 19 | | Nil | | | | | |
| 20 | ePKP | 05 04 45 | | | | | |
| 20 | iP | 22 49 02.8 | D | | | | |
| 21 | iP | 06 24 12.1 | D | 1.0 | 304mu | 2.5 | |
| 21 | iP | 12 32 49.3 | D | | | | |
| 21 | iP | 17 24 22.3 | C | 0.9 | 780mu | 3.0 | |
| 22 | iP | 12 50 08.3 | | | | | Meckering |
| | eS | 50 51 | | | | | |
| 22 | iP | 20 06 56.0 | C | | | | |
| 23 | | Nil | | | | | |
| 24 | iP | 12 06 01.3 | | | | | Meckering |
| | iS | 06 47.0 | | | | | |
| 24 | iP | 18 08 23.0 | D | | | | |
| 25 | iP | 00 25 15.3 | C | | | | |
| 25 | iP | 07 13 06.4 | D | | | | |
| 26 | iP | 20 28 34.9 | C | | | | |
| 27 | iP | 03 00 15.3 | C | | | | |
| 27 | iP | 16 12 11.7 | D | | | | |
| 27 | iP | 22 35 35.0 | C | | | | |
| 27 | iP | 23 56 23.3 | C | | | | |
| 28 | iP | 00 02 47.2 | D | | | | |
| 28 | iP | 06 37 40.6 | D | | | | |
| 29 | iP | 03 22 33.2 | D | | | | |
| 29 | iP | 22 09 48.7 | D | | | | |
| 30 | | Nil | | | | | |
| 31 | | Nil | | | | | |
| **MEEKATHARRA (MEK)** | | | | | | | |
| January. | | | | | | | |
| 01 | iP | 08 04 18.3 | D | | | | |
| 02 | iP | 07 39 59.1 | D | | | | |
| 02 | eP | 19 25 20 | | | | | |
| | eS | 28 29 | | | | | |
| 02 | eP | 22 28 11 | | | | | |
| 03 | iP | 06 32 03.3 | C | | | | |
| 03 | eP | 17 48 08 | | | | | |
| 03 | iP | 19 06 43.4 | D | | | | |
| 03 | iP | 19 16 13.3 | D | | | | Meckering |
| | iS | 17 09.3 | | | | | |
| 04 | iP | 07 12 20.9 | D | | | | |
| 04 | iP | 11 17 48.2 | D | | | | |
| 04 | iP | 13 33 33.9 | D | | | | |
| 04 | iP | 14 04 06.4 | D | | | | |
| 04 | iP | 21 19 18.0 | C | | | | |
| 05 | eP | 03 44 05 | | | | | |
| | eS | 47 13 | | | | | |
| 05 | eP | 08 13 03 | | | | | |
| | eS | 16 11 | | | | | |
| 05 | iP | 21 23 47.6 | C | | | | Meckering |
| | eS | 24 41 | | | | | |

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|---|---|---|---|---|---|---|---|
| **MEEKATHARRA (MEK)** Cont. | | | | | | | |
| January. | | | | | | | |
| 06 | iP | 06 06 21.0 | D | | | | |
| 06 | iP | 06 15 04.9 | C | | | | |
| 06 | eP | 23 58 42 | | | | | |
| 07 | iP | 03 38 28.0 | C | | | | |
| 08 | | Nil | | | | | |
| 09 | | Nil | | | | | |
| 10 | iP | 00 13 25.0 | C | | | | Mookering |
| | eS | 14 22 | | | | | |
| 10 | eP | 07 23 20 | | | | | |
| 10 | eP | 10 51 22 | | | | | |
| 10 | eP | 14 32 58 | | | | | |
| 10 | eP | 16 14 03 | | | | | |
| 10 | eP | 17 49 59 | | | | | Lake McKay |
| | eS | 51 30 | | | | | |
| 10 | eP | 19 19 51 | | | | | |
| 10 | eP | 19 40 38 | | | | | |
| 10 | iP | 21 54 26.0 | C | | | | |
| 10 | eP | 22 20 54 | | | | | |
| 10 | eP | 23 31 03 | | | | | |
| 11 | eP | 00 26 43 | | | | | |
| 11 | eP | 01 42 38 | | | | | |
| 11 | eP | 11 14 34 | | | | | |
| 11 | eP | 15 55 34 | | | | | |
| 11 | eP | 16 24 41 | | | | | |
| 11 | iP | 16 44 46.1 | D | | | | |
| 11 | iP | 19 15 39.0 | D | | | | |
| 12 | iP | 08 10 13.3 | C | | | | |
| 12 | eP | 15 03 25 | | | | | |
| 12 | eP | 21 34 29 | | | | | |
| 13 | eP | 01 14 06 | | | | | |
| 13 | eP | 04 03 53 | | | | | |
| 13 | eP | 10 29 03 | | | | | |
| 13 | iP | 14 38 17.1 | C | | | | |
| | iS | 41 27.2 | | | | | |
| 13 | iP | 18 10 45.2 | C | | | | |
| | eS | 12 47 | | | | | |
| 14 | iP | 09 28 00.0 | C | | | | |
| 14 | eP | 10 30 02 | | | | | |
| 14 | iP | 17 45 34.5 | D | | | | 150km N Carnarvon |
| | iS | 46 30.2 | | | | | |
| 14 | eP | 18 13 40 | | | | | |
| 14 | iP | 22 53 52.8 | C | | | | |
| 15 | iP | 09 03 18.8 | C | | | | Mookering |
| | eS | 04 12 | | | | | |
| 15 | eP | 22 23 12 | | | | | |
| 16 | eP | 04 42 24 | | | | | |
| 16 | eP | 09 56 39 | | | | | |
| 16 | eP | 16 34 42 | | | | | |
| 17 | iP | 11 31 02.9 | D | | | | |
| | eS | 32 41 | | | | | |
| 17 | iP | 13 24 17.8 | C | | | | |
| 18 | iP | 00 09 24.2 | C | | | | |
| 18 | iP | 05 58 14.2 | D | | | | |
| 18 | iP | 11 31 12.8 | D | | | | |
| 18 | iP | 12 50 24.4 | | | | | |
| | iS | 51 20.4 | | | | | Mookering |

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|---|---|---|---|---|---|---|---|
| **MEEKATHARRA (MEK) Cont.** | | | | | | | |
| January. | | | | | | | |
| 18 | eP | 20 22 28 | | | | | |
| 18 | iP | 21 03 10.9 | D | | | | |
| 19 | iP | 17 04 26.1 | C | | | | |
| 20 | iP | 02 48 43.2 | D | | | | |
| 20 | eP | 06 15 18 | | | | | Lake McKay |
| | eS | 15 50 | | | | | |
| 20 | eP | 17 48 18 | | | | | Lake McKay |
| | eS | 49 51 | | | | | |
| 20 | iP | 22 48 51.2 | C | | | | |
| 21 | iP | 06 24 10.1 | C | | | | |
| 21 | iP | 12 33 10.6 | D | | | | |
| 21 | iP | 17 23 45.1 | C | | | | |
| | eS | 27 20 | | | | | |
| 22 | iP | 20 06 56.8 | C | | | | |
| 23 | eP | 06 35 16 | | | | | |
| 24 | iP | 12 06 10.2 | | | | | Meckering |
| | eS | 07 04 | | | | | |
| 24 | iP | 18 07 47.3 | D | | | | |
| 25 | iP | 00 25 19.4 | C | | | | |
| 25 | iP | 07 12 55.2 | D | | | | |
| 26 | iP | 20 28 01.3 | C | | | | |
| 27 | eP | 02 59 48 | | | | | |
| 27 | eP | 16 11 41 | | | | | |
| 27 | iP | 23 56 40.0 | C | | | | |
| 28 | iP | 00 02 20.5 | C | | | | |
| 28 | iP | 06 38 00.2 | D | | | | |
| 29 | iP | - 03 22 21.9 | D | | | | |
| 29 | iP | 04 21 01.9 | D | | | | Local |
| | iS | 22 03.0 | | | | | |
| 29 | iP | 22 09 33.9 | D | | | | |
| 30 | | Nil | | | | | |
| 31 | iP | 21 19 44.4 | D | | | | |
| **KUNUNURRA (KNA)** | | | | | | | |
| January. | | | | | | | |
| 01 | iP | 08 01 58.2 | D | | | | |
| | iP | 17 12 00.8 | C | | | | |
| 01 | iP | 17 44 32.7 | C | | | | |
| 02 | iP | 07 39 10.0 | C | | | | |
| 02 | iP | 13 44 29.7 | C | | | | |
| 02 | iP | 22 26 33.3 | C | | | | |
| 02 | iP | 23 10 22.9 | C | | | | |
| 03 | iP | 01 11 23.8 | D | | | | |
| | eS | 12 53 | | | | | |
| 03 | iP | 04 52 51.0 | C | | | | |
| | eS | 54 11 | | | | | |
| 03 | iP | 06 30 33.1 | C | | | | |
| 03 | iP | 07 24 08.2 | C | | | | |
| 03 | iP | 10 24 24.6 | D | | | | |
| 03 | iP | 20 45 21.8 | D | | | | |
| 04 | iP | 07 11 25.7 | D | | | | |
| 04 | eP | 07 48 12 | | | | | |
| 04 | iP | 13 32 16.9 | D | | | | |

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| Date 1971 | Phase | G.M.T. | Dir. | Per. (sec.) | Amp. | Log A/T |
|---|---|---|---|---|---|---|
| **KUNUNURRA (KNA)** | | | | | | |
| January. | | | | | | |
| 04 | iP | 14 01 48.2 | D | | | |
| 04 | iP | 21 17 49.9 | C | | | |
| 05 | iP | 05 32 45.6 | C | | | |
| 05 | iP | 08 13 12.7 | C | | | |
| 05 | iP | 08 34 34.9 | | | | |
| 06-08 | Time correction uncertain | | | | | |
| 09-10 | No record | | | | | |
| 11 | iP | 14 18 16.0 | C | | | |
| 11 | iP | 15 25 18.0 | C | | | |
| 11 | oP | 18 35 19 | | | | |
| 12 | iP | 00 38 55.0 | C | | | |
| 13-31 | Time correction uncertain | | | | | |

International Seismological Centre

P.J. Gregson,
Observer in Charge

International Seismological Centre

COMMONWEALTH OF AUSTRALIA

Department of National Development

Bureau of Mineral Resources, Geology and Geophysics

# MUNDARING GEOPHYSICAL OBSERVATORY

## FEBRUARY 1971

MUNDARING (MUN)

Latitude: 31°58.7'S Longitude: 116°12.5'E
Height: 253 Metres
Foundation: Precambrian granite

KALGOORLIE (KLG)

Latitude: 30°47' 01.2"S Longitude: 121°27' 28.9"E
Height: 350 Metres
Foundation Alluvium-covered Precambrian basic metasediments

MEEKATHARRA (MEK)

Latitude: 26°36'46"S Longitude: 118°32'42"E
Height: 515 Metres
Foundation: Archean Sedimentary rock

KARRATHA (KAA)

Latitude: 20°46.6'S Longitude: 116°51.5'E
Height: 15 Metres
Foundation: Precambrian volcanics

KUNUNURRA (KNA)

Latitude: 50°45.0'S Longitude: 128°46.0'E
Height: 55 Metres
Foundation: Unweathered upper Devonian sandstone.

All correspondence relating to these seismographs should be addressed to:-

Observer-in-Charge,
Geophysical Observatory,
MUNDARING. 6073

International Seismological Centre

| Date 1971 | Phase | G.M.T. | Dir. | | Per. (sec.) | Amp. | LogA/T |
|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** | | | | | | | |
| February. | | | | | | | |
| 01 | iP | 03 59 31.7 | C | | 1.0 | 24mu | 1.4 |
| 01 | iP | 06 24 40.6 | C | LZ | 20.0 | 2 u | |
| | | | | LN | 20.0 | 2 u | |
| | | | | LE | 20.0 | 1 u | |
| 01 | eP | 15 04 22 | | | | | |
| 02 | iPKP | 02 50 53.1 | D | | | | |
| 02 | iP | 08 10 01.0 | C | | | | |
| 02 | eP | 15 28 28 | | | | | |
| 03 | iP | 06 16 44.8 | D | | 0.9 | 53mu | 1.8 |
| 03 | iP | 10 43 40.6 | D | | | | |
| 03 | eP | 19 57 57 | | | | | |
| 04 | iP | 15 40 32.5 | D | | 1.0 | 1320mu | 3.1 |
| 05 | eP | 02 14 46 | | | | | |
| 05 | eP | 09 16 31 | | | | | |
| 05 | iP | 09 20 34.6 | C | | | | |
| 05 | iP | 13 19 36.9 | C | | | | |
| 05 | eP | 16 55 51 | | | | | |
| 05 | iP | 21 11 18.0 | D | | | | |
| 06 | iP | 08 24 43.6 | D | | | | |
| 06 | eP | 16 32 23 | | | | | |
| 06 | iP | 18 31 41.9 | C | | | | |
| 06 | iP | 20 55 01.7 | C | | | | |
| 06 | iP | 22 24 45.7 | C | | | | |
| 07 | iP | 03 16 02.0 | C | LZ | 20.0 | 31 u | |
| | | | | LN | 20.0 | 20 u | |
| | | | | LE | 20.0 | 23 u | |
| 07 | iP | 16 59 57.6 | C | | | | |
| 07 | iP | 22 24 28.7 | C | | | | |
| 08 | iP | 04 30 24.5 | C | | | | |
| 08 | iP | 13 15 54.9 | D | | | | |
| 08 | eP | 20 50 20 | | | | | |
| 08 | iP | 21 16 53.0 | D | | 1.0 | 440mu | 2.7 |
| | | | | LZ | 20.0 | 171 u | |
| | | | | LN | 20.0 | 80 u | |
| | | | | LE | 20.0 | 63 u | |
| 09 | iPKP | 14 20 00.8 | D | | | | |
| 09 | iP | 21 06 17.4 | D | | | | |
| 09 | iP | 21 55 24.4 | C | | | | |
| 10 | | Nil | | | | | |
| 11 | eP | 22 44 56 | | | | | |
| 12 | iP | 03 13 19.0 | C | | | | |
| 12 | iP | 19 14 03.4 | C | | 1.0 | 800mu | 2.9 |
| 12 | iP | 23 39 51.0 | C | | | | |
| 13 | iP | 22 16 50.5 | D | | | | |
| 14 | iP | 11 13 25.7 | C | | | | |
| 14 | iP | 14 31 56.5 | D | | | | |
| 14 | iP | 14 42 07.2 | D | | | | |
| 14 | iP | 16 40 25.7 | D | | | | |
| 15 | iP | 07 59 36.2 | D | | 1.0 | 272mu | 2.4 |
| 15 | eP | 21 59 07 | | | | | |
| 16 | iP | 13 09 34.1 | C | | | | |
| 16 | iP | 20 26 02.1 | D | | | | |
| 17 | iP | 04 12 43.7 | D | | | | |
| 17 | iP | 07 12 12.8 | C | | | | |
| 17 | iP | 08 26 43.2 | C | | | | |
| 18 | iP | 02 22 24.2 | C | | | | |
| 18 | iP | 05 53 23.0 | D | | | | |

| Date 1971 | Phase | G.M.T. | Dir. | Per. (sec.) | Amp. | Log A/T | |
|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN) Cont.** | | | | | | | |
| February. | | | | | | | |
| 18 | iP | 20 59 22.2 | D | | | | |
| | iS | 59 31.4 | | | | | ML = 3.1 Meckering |
| 19 | eP | 01 54 48 | | | | | |
| 20 | iP | 11 53 08.5 | D | | | | |
| 20 | iP | 23 52 55.9 | D | 0.8 | 90mu | 2.0 | |
| 21 | iP | 03 15 06.4 | C | 1.0 | 60mu | 1.8 | |
| 21 | iP | 03 29 12.5 | D | | | | |
| 21 | eP | 10 54 00 | | | | | |
| 22 | eP | 08 33 43 | | | | | |
| 22 | iP | 22 15 23.1 | C | | | | |
| 23 | eP | 00 45 50 | | | | | |
| 23 | iP | 19 18 32.4 | D | | | | |
| 24 | eP | 05 40 50 | | | | | |
| 25 | eP | 04 35 28 | | | | | |
| 25 | iP | 04 36 21.5 | D | | | | |
| 25 | iP | 14 43 21.1 | D | | | | |
| 25 | iP | 22 21 51.6 | D | | | | |
| 26 | iP | 05 04 12.6 | C | | | | |
| 26 | iP | 19 06 43.0 | C | | | | |
| 27 | iP | 00 15 05.8 | D | | | | |
| 27 | iP | 04 53 49.0 | D | | | | |
| 27 | iP | 13 35 48.7 | D | | | | |
| 28 | eP | 00 22 45 | | | | | |
| 28 | iP | 10 01 55.7 | D | | | | |
| 28 | iP | 16 48 43.5 | D | | | | |
| 28 | iP | 18 24 37.3 | D | | | | |
| **KALGOORLIE (KLG)** | | | | | | | |
| February. | | | | | | | |
| 01 | iP | 03 58 55.6 | C | | | | |
| 01 | eP | 06 24 09 | | | | | |
| 01 | iP | 15 03 45.6 | C | | | | |
| 02 | iP | 08 10 08.6 | C | | | | |
| 03 | iP | 06 16 13.6 | C | | | | |
| 03 | iP | 19 57 32.7 | D | | | | |
| 04 | iP | 15 40 45.3 | D | | | | |
| 05 | iP | 09 20 38.1 | D | | | | |
| 06 | iP | 08 24 23.7 | D | | | | |
| 06 | iP | 22 24 55.1 | C | | | | |
| 07 | iP | 03 15 41.8 | C | | | | |
| 07 | iP | 22 23 52.9 | C | | | | |
| 08 | eP | 21 17 00 | | | | | |
| 09 | iP | 14 19 51.2 | C | | | | |
| *09 | eP | 21 05 52 | | | | | |
| 11 | eP | 22 45 10 | | | | | |
| 12 | iP | 03 13 01.6 | D | | | | |
| 12 | iP | 19 13 27.0 | C | | | | |
| 13 | iP | 22 16 14.3 | C | | | | |
| 14 | eP | 14 31 35 | | | | | |
| 15 | iP | 07 59 05.6 | D | | | | |
| 16 | iP | 14 35 34.0 | D | | | | |
| 17 | iP | 07 12 21.6 | C | | | | |
| *17 | eP | 08 26 51 | | | | | |
| 19 | iP | 01 54 21.4 | C | | | | |
| 20 | iP | 23 52 41.0 | D | | | | |
| 21 | iP | 03 28 41.8 | D | | | | |
| 21 | eP | 10 53 39 | | | | | |
| *10 | | Nil | | | | | |
| *1? | | Nil | | | | | |

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|---|---|---|---|---|---|---|---|
| KALGOORLIE (KLG) Cont. | | | | | | | |
| February. | | | | | | | |
| 22 | iP | 08 33 29.8 | C | | | | |
| 22 | iP | 22 15 03.5 | D | | | | |
| 23 | eP | 00 45 16 | | | | | |
| *23 | iP | 19 18 08.4 | C | | | | |
| 25 | iP | 04 35 21.6 | C | | | | |
| 25 | iP | 14 43 02.6 | D | | | | |
| 25 | eP | 19 38 57 | | | | | |
| 25 | iP | 22 22 05.4 | C | | | | |
| 26 | iP | 05 03 35.4 | C | | | | |
| 26 | iP | 19 06 07.1 | D | | | | |
| 27 | iP | 13 35 17.9 | D | | | | |
| 28 | eP | 00 22 20 | | | | | |
| 28 | iP | 16 48 08.1 | D | | | | |
| *24 | | Nil | | | | | |
| MEEKATHARRA (MEK) | | | | | | | |
| February. | | | | | | | |
| 01 | iP | 03 58 55.6 | C | | | | |
| 01 | iP | 15 03 48.6 | C | | | | |
| 02 | iP | 08 09 35.0 | C | | | | |
| 02 | eP | 15 28 19 | | | | | |
| 03 | iP | 04 05 22.5 | C | | | | |
| | iS | 06 14.6 | | | | | Mt. Tom Price blast |
| 03 | eP | 04 54 45 | | | | | |
| | iS | 57 37.5 | | | | | |
| 03 | iP | 06 16 33.3 | C | | | | |
| 03 | eP | 19 57 17 | | | | | |
| 04 | eP | 08 04 41 | | | | | |
| | eS | 07 37 | | | | | |
| 04 | iP | 15 40 03.9 | D | | | | |
| 05 | iP | 08 11 24.6 | D | | | | |
| 05 | iP | 13 18 45.5 | D | | | | |
| | eP | 16 55 07 | | | | | |
| 05 | iP | 21 11 27.2 | C | | | | |
| 06 | iP | 08 23 53.0 | C | | | | |
| 06 | iP | 18 31 06.5 | D | | | | |
| 06 | iP | 22 24 29.2 | C | | | | |
| 06 | iP | 22 25 14.4 | | | | | |
| | iS | 26 45.3 | | | | | Lake McKay |
| 07 | eP | 02 42 52 | | | | | |
| 07 | iP | 03 15 11.0 | C | | | | |
| 07 | iP | 05 56 30.3 | C | | | | |
| 07 | eP | 16 59 54 | | | | | |
| 07 | iP | 22 23 52.7 | D | | | | |
| 08 | eP | 04 29 46 | | | | | |
| 08 | iP | 21 17 19.3 | D | | | | |
| 09 | iPKP | 14 19 53.1 | D | | | | |
| 09 | iP | 21 05 26.9 | D | | | | |
| 10 | iP | 19 32 13.0 | C | | | | |
| 11 | eP | 22 44 25 | | | | | |
| 12 | iP | 03 12 30.1 | D | | | | |
| 12 | iP | 19 13 23.5 | C | | | | |
| 12 | iP | 23 39 01.7 | C | | | | |
| 13 | iP | 06 26 51.7 | D | | | | |
| 13 | iP | 22 16 10.0 | C | | | | |
| 14 | iP | 11 13 28.7 | C | | | | |
| 14 | iP | 14 31 06.0 | C | | | | |
| 14 | iP | 14 41 16.9 | D | | | | |

International Seismological Centre

| Date 1971 | Phase | G.M.T. | Dir. | Per. (sec.) | Amp. | Log | |
|---|---|---|---|---|---|---|---|
| **MEEKATHARRA (MEK)** Cont. | | | | | | | |
| February. | | | | | | | |
| 14 | iP | 16 40 14.7 | C | | | | |
| 15 | iP | 07 59 28.7 | D | | | | |
| 15 | iP | 21 58 16.0 | D | | | | |
| 16 | iP | 05 05 21.4 | D | | | | |
| 16 | iP | 13 08 43.2 | C | | | | |
| 16 | iP | 14 35 03.9 | D | | | | |
| 16 | iP | 16 22 16.1 | C | | | | |
| 16 | iP | 20 27 17.0 | C | | | | |
| 17 | eP | 04 13 11 | | | | | |
| 17 | eP | 07 11 40 | | | | | |
| 17 | eP | 08 25 59 | | | | | |
| *18 | iP | 05 52 31.9 | D | | | | |
| 18 | eP | 19 56 47 | | | | | |
| 19 | iP | 01 53 50.7 | C | | | | |
| | eS | 57 25 | | | | | |
| 19 | iP | 04 20 16.3 | C | | | | |
| | eS | 21 15 | | | | | Marble Bar |
| 19 | iP | 19 25 32.0 | C | | | | |
| | iS | 28 27.1 | | | | | |
| 20 | iP | 23 52 08.1 | D | | | | |
| 21 | iP | 03 29 04.4 | D | | | | |
| 21 | eP | 10 53 51 | | | | | |
| 23 | iP | 16 13 31.9 | D | | | | |
| 24 | iP | 19 28 32.6 | D | | | | |
| 25 | iP | 14 42 32.0 | C | | | | |
| 25 | iP | 22 21 25.0 | C | | | | |
| 26 | iP | 05 03 45.8 | C | | | | |
| 26 | iP | 07 41 48.1 | C | | | | |
| 26 | iP | 14 44 32.3 | C | | | | |
| 26 | iP | 19 06 25.6 | C | | | | |
| 27 | iP | 00 14 56.8 | D | | | | |
| 27 | iP | 04 53 39.9 | D | | | | |
| 27 | eP | 07 39 33 | | | | | |
| 27 | iP | 13 35 39.8 | D | | | | |
| 28 | eP | 00 21 51 | | | | | |
| | eS | 25 38 | | | | | |
| 28 | iP | 09 59 03.2 | D | | | | |
| 28 | iP | 16 48 03.0 | D | | | | Marble Bar |
| 28 | iP | 18 23 50.0 | D | | | | |
| *3 | eP | 12 08 13 | | | | | |
| | eS | 09 42 | | | | | Lake McKay |

International Seismological Centre

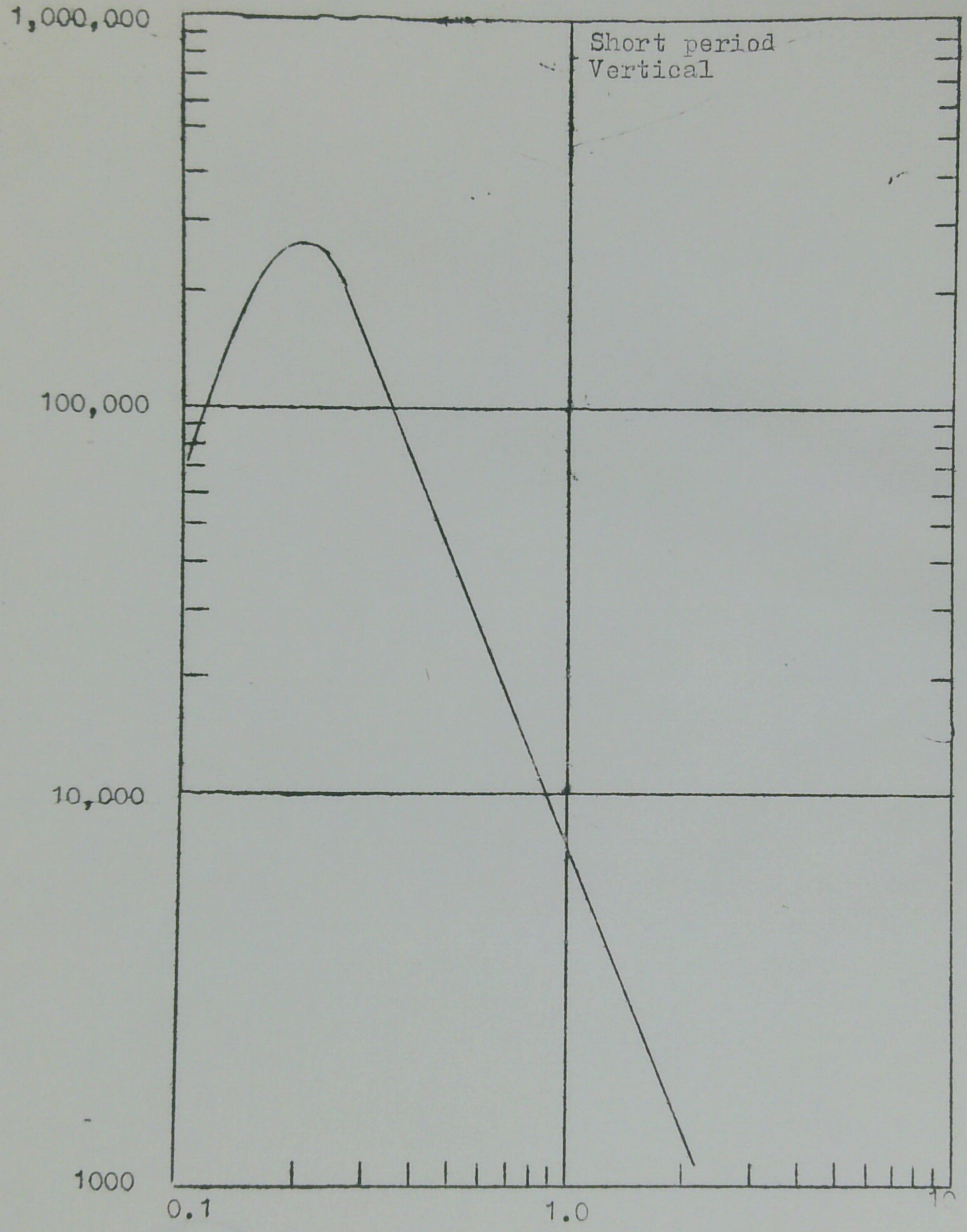
| Date 1971 | Phase | G.M.T. | Dir. | Per. (sec.) | Amp. | Log A/T | |
|---|---|---|---|---|---|---|---|
| KUNUNURRA (KNA) | | | | | | | |
| February. | | | | | | | |
| 01-03 | | No timemarks | | | | | |
| 04 | iP | 15 40 06.8 | D | | | | |
| 04 | iP | 23 49 45.0 | C | | | | |
| 05 | iP | 02 13 48.4 | D | | | | |
| 05 | iP | 08 09 29.6. | C | | | | |
| 05 | eP | 08 39 39 | | | | | |
| | eS | 42 35 | | | | | |
| 05 | iP | 09 19 26.8 | D | | | | |
| 05 | iP | 13 16 02.6 | D | | | | |
| 06 | iP | 08 21 57.0 | C | | | | |
| 06 | eP | 09 35 41 | | | | | |
| 06 | iP | 16 31 58.5 | C | | | | |
| 06 | iP | 16 34 23.0 | C | | | | |
| 06 | iP | 18 16 03.8 | D | | | | |
| 06 | iP | 18 31 12.7 | D | | | | |
| 06 | eP | 20 30 07 | | | | | |
| 06 | iP | 22 24 21.3 | D | | | | |
| 07 | eP | 02 41 43 | | | | | |
| 07 | iP | 02 54 18.8 | D | | | | |
| 07 | iP | 03 13 23.8 | D | | | | |
| 07 | iP | 06 00 45.1 | D | | | | |
| 07 | iP | 08 58 29.0 | C | | | | |
| 07 | iP | 10 33 49.4 | | | | | |
| 08-28 | | Station out of service due to damage by lightning. | | | | | |
| KARRATHA (KAA) | | | | | | | |
| February. | | | | | | | |
| 10 | eP | 22 03 12 | | | | | |
| 10 | iP | 23 09 52.1 | C | 0.9 | 26mu | 1.4 | |
| 11 | iP | 22 43 33.9 | D | | | | |
| 12-14 | | Time correctiom uncertain | | | | | |
| 15 | iP | 08 59 50.0 | D | 0.9 | 50mu | 2.8 | |
| 15 | iP | 21 57 36.3 | C | 0.9 | 29mu | 1.5 | |
| 16 | eP | 08 43 21 | | | | | |
| 16 | iP | 13 07 59.0 | C | | | | |
| 16 | iP | 14 34 20.6 | D | | | | |
| 17 | | Time correction uncertain | | | | | |
| 18 | | Nil | | | | | |
| 19 | iB | 04 18 48.3 | C | | | | Marble Bar ML = 2.7 Arrival Time Uncertain |
| | iS | 19 16.6 | | | | | |
| 20 | iP | 23 51 20.6 | D | | | | |
| 21 | iP | 03 29 24.7 | D | 0.9 | 100mu | 2.0 | |
| 21 | ePKP | 10 54 11 | | | | | |
| 22 | iP | 22 13 49.7 | D | | | | |
| 23-24 | | Nil | | | | | |
| 25 | iP | 14 41 48.1 | C | | | | |
| 26 | | Nil | | | | | |
| 27 | iP | 04 53 57.3 | D | | | | |
| 27 | iP | 13 35 57.9 | D | | | | |

P.J. Gregson,
Observer-in-Charge.

International Seismological Centre

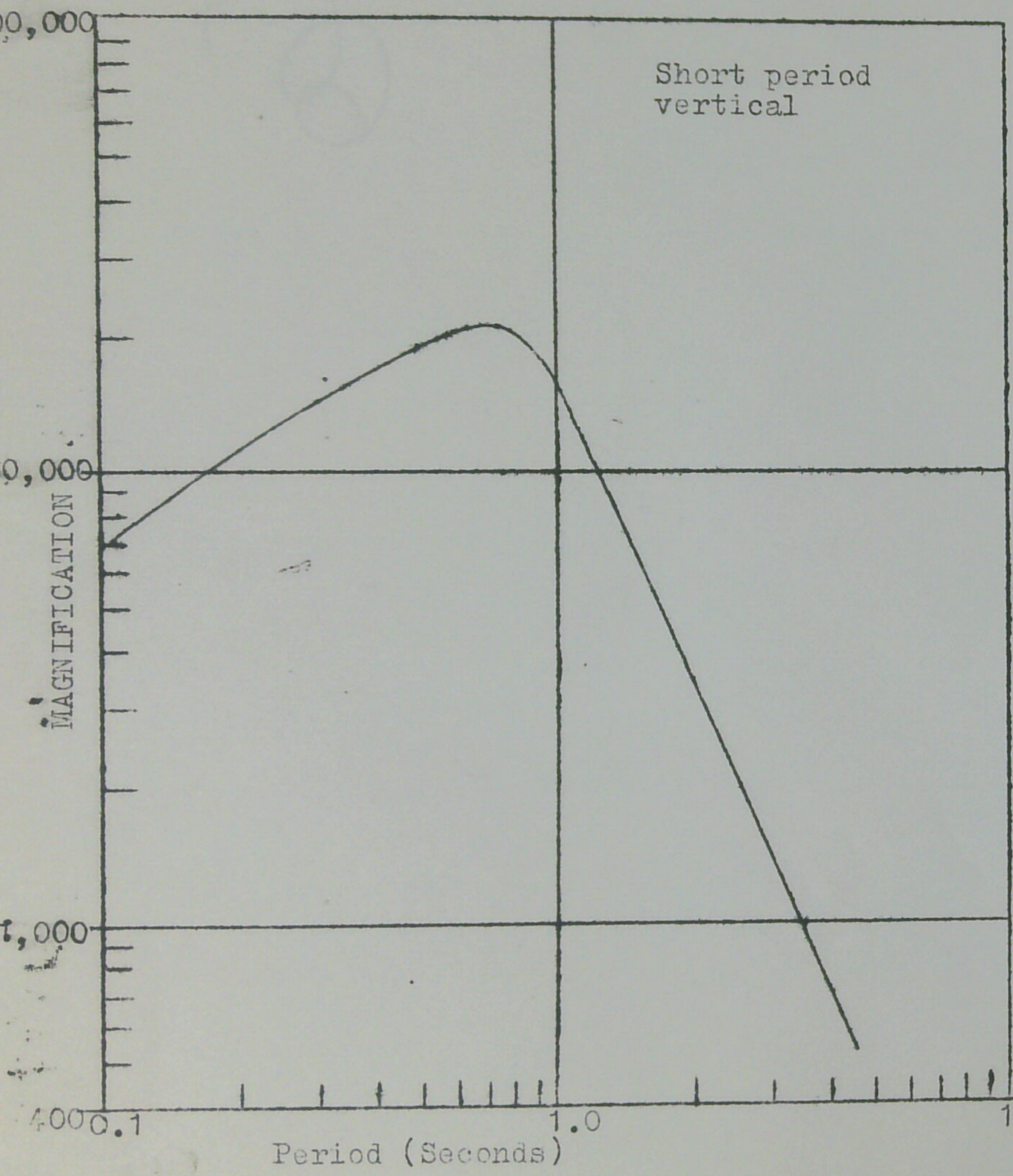
MEEKATHARRA SEISMOGRAPH

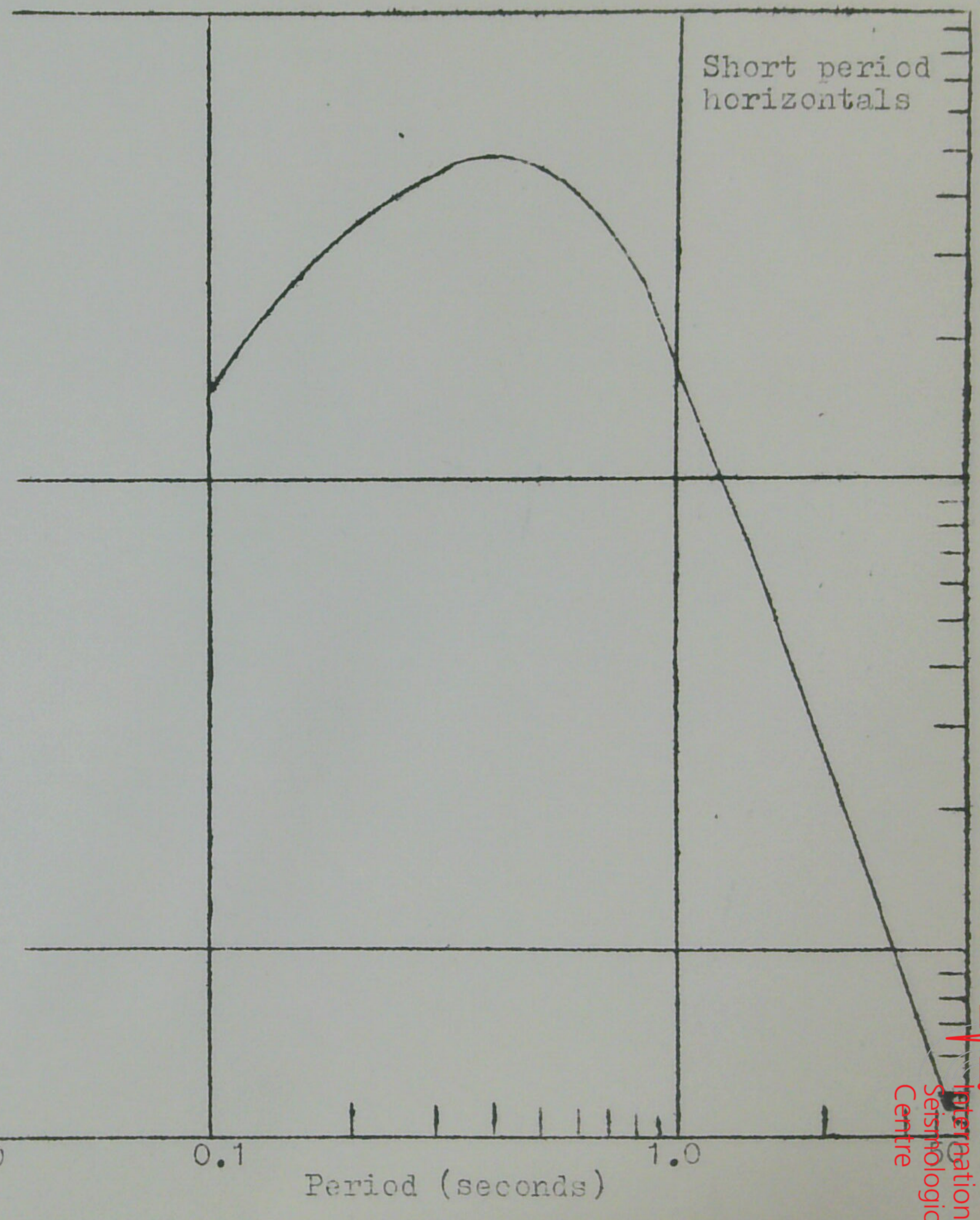
Magnification Curve



KALGOORLIE SEISMOGRAPH

Magnification Curves

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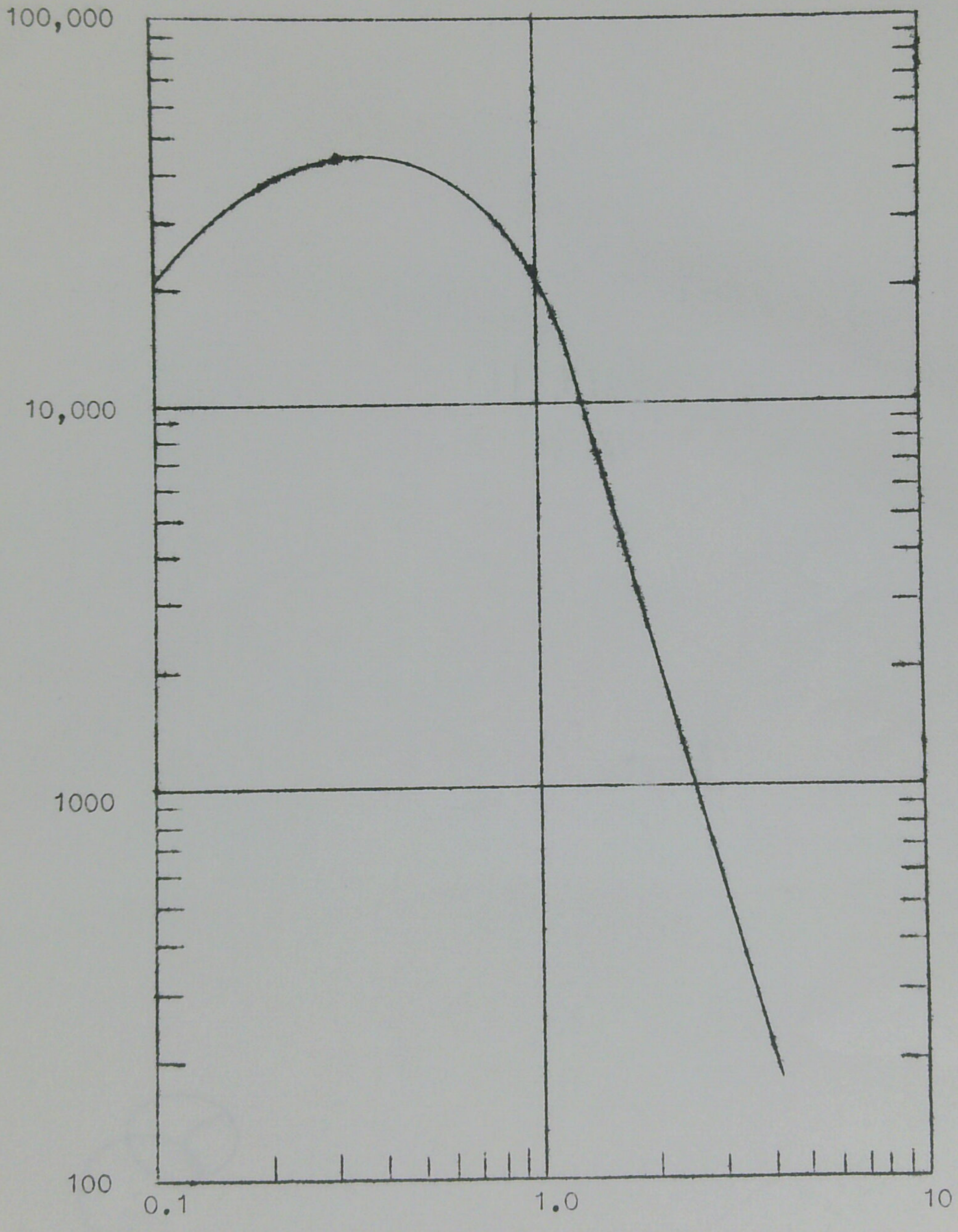
# KUNUNURRA SEISMOGRAPH

## Magnification Curve



# KARRATHA SEISMOGRAPH

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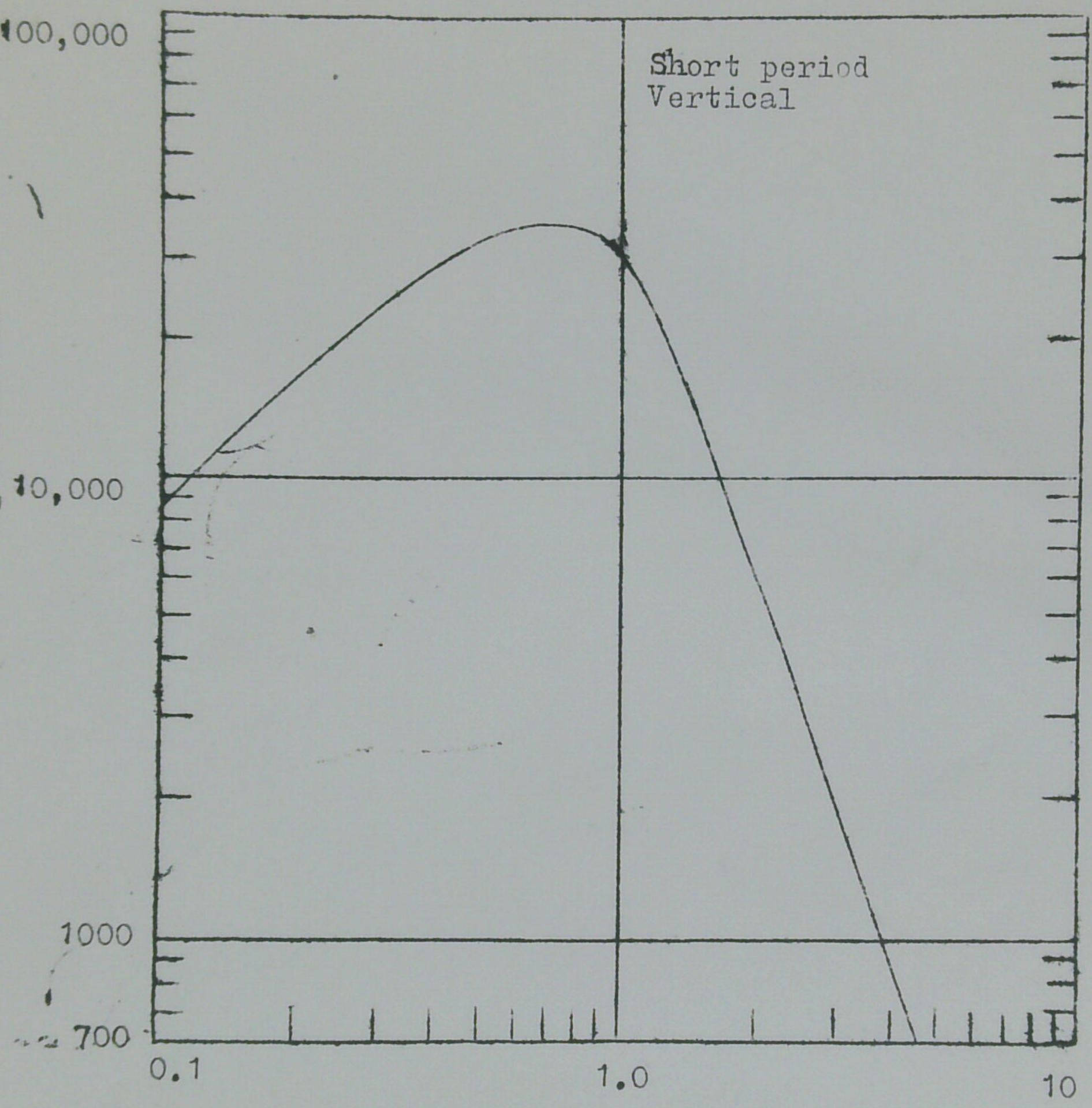
Magnification curve



International Seismological Centre

COMMONWEALTH OF AUSTRALIA

Department of National Development

Bureau of Mineral Resources, Geology and Geophysics

# MUNDARING GEOPHYSICAL OBSERVATORY

## MARCH 1971

**MUNDARING (MUN)**

Latitude: 31°58.7'S Longitude: 116°12.5'E

Height: 253 Metres

Foundation: Precambrian granite

**KALGOORLIE (KLG)**

Latitude: 30°47' 01.2"S Longitude: 121°27' 28.9"E

Height: 350 Metres

Foundation Alluvium-covered Precambrian basic metasediments

**MEEKATHARRA (MEK)**

Latitude: 26°36'46"S Longitude: 118°32'42"E

Height: 515 Metres

Foundation: Archean Sedimentary rock

**KARRATHA (KAA)**

Latitude: 20°46.6'S Longitude: 116°51.5'E

Height: 15 Metres

Foundation: Precambrian volcanics

**KUNUNURRA (KNA)**

Latitude: 50°45.0'S Longitude: 128°46.0'E

Height: 55 Metres

Foundation: Unweathered upper Devonian sandstone.

All correspondence relating to these seismographs should be addressed to:-

Observer-in-Charge,
Geophysical Observatory,
MUNDARING. 6073

| 1971 | Phase | G.M.T. | Dir. | Per. (sec.) | Amp. | LogA/T | |
|---|---|---|---|---|---|---|---|

MUNDARING (MUN)

MARCH.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 01 | eP | 12 15 24 | | | | | |
| 01 | eP | 13 07 10 | | | | | |
| 02 | | Nil | | | | | |
| 03 | iP | 08 26 38.7 | D | | | | |
| 03 | iP | 22 06 37.7 | C | | | | |
| 04 | iP | 00 38 36.0 | D | | | | |
| 04 | iP | 04 20 27.8 | C | | | | |
| 04 | iP | 10 36 34.7 | C | | | | |
| 04 | iP | 17 26 46.3 | C | | | | |
| 05 | iP | 01 46 07.4 | D | | | | Local |
| | eS | 46 18 | | | | | ML = 2.0 |
| 05 | iP | 02 51 16.9 | C | | | | |
| 05 | iP | 02 57 06.9 | | | | | |
| 05 | eP | 04 01 43 | | | | | Regional |
| | iS | 04 00.9 | | | | | Marble Bar |
| 05 | eP | 15 00 46 | | | | | |
| 05 | iP | 21 02 46.5 | C | | | | |
| 06 | iP | 01 57 04.7 | C | | | | |
| 06 | iP | 14 26 02.2 | D | | | | |
| 06 | eP | 23 13 01 | | | | | |
| 07 | iP | 02 28 47.0 | D | | | | |
| 07 | iP | 04 39 49.1 | D | | | | |
| 07 | iP | 07 34 02.4 | C | | | | |
| 07 | iP | 13 38 54.0 | D | | | | |
| 07 | iP | 17 52 09.6 | C | | | | |
| 07 | eP | 22 02 24 | | | | | |
| 08 | eP | 11 08 28 | | | | | |
| 08 | eP | 14 19 49 | | | | | |
| 08 | eP | 16 48 01 | | | | | |
| 09 | iP | 08 20 46.0 | D | | | | |
| 09 | iP | 20 53 23.3 | C | 0.8 | 27mu | 1.5 | |
| 10 | eP | 00 44 05 | | | | | |
| 10 | iP | 00 48 12.3 | C | | | | |
| 11 | iP | 03 26 16.7 | D | 0.6 | 17mu | 1.5 | Lake McKay |
| | eS | 28 36 | | | | | mb = 5.2 |
| 11 | eP | 05 45 45 | | | | | |
| 11 | iP | 11 15 18.5 | D | | | | |
| 12 | iP | 14 38 23.0 | C | | | | |
| 12 | iP | 22 41 47.1 | C | | | | |
| 13 | iP | 03 17 55.3 | C | 1.0 | 72mu | 1.9 | |
| 13 | iP | 03 39 16.7 | C | 0.4 | 49mu | 2.0 | 5km N Mawson |
| | iS | 39 27.7 | | | | | ML = 2.1 |
| 13 | eP | 07 10 34 | | | | | |
| 13 | iP | 09 18 13.1 | C | | | | |
| 13 | iP | 15 57 14.0 | C | LZ | 20.0 | 29 u | |
| | | | | LN | 20.0 | 9 u | |
| | | | | LE | 20.0 | 17 u | |
| 13 | iP | 19 19 30.7 | C | | 1.0 | 260mu | 2.4 |
| | iS | 25 14.0 | | | | | |
| 14 | eP | 06 17 56 | | | | | |
| 14 | eP | 13 09 46 | | | | | |
| 15 | eP | 10 58 50 | | LZ | 20.0 | 2 u | |
| | | | | LN | 20.0 | 1 u | |
| | | | | LE | 20.0 | 1 u | |

International Seismological Centre

| Date 1971 | Phase | G.M.T. | Dir. | | Per. (sec.) | Amp. | LogA/T | |
|---|---|---|---|---|---|---|---|---|
| MUNDARING (MUN) Cont. | | | | | | | | |
| March. | | | | | | | | |
| 15 | iP | 19 07 01.3 | C | LZ | 20.0 | 3 u | | |
| | | | | LN | 20.0 | 0 u | | |
| | | | | LE | 20.0 | 1 u | | |
| 15 | iP | 21 00 26.1 | C | | | | | |
| 16 | iP | 08 04 05.6 | C | | | | | |
| 16 | eP | 12 41 10 | | LZ | 20.0 | 66 u | | |
| | | | | LN | 20.0 | 20 u | | |
| | | | | LE | 20.0 | 51 u | | |
| 16 | iP | 20 43 02.5 | D | | 1.0 | 390mu | 2.6 | |
| 17 | eP | 03 21 02.5 | C | | | | | |
| 18 | iP | 02 43 38.6 | D | | | | | |
| 18 | iP | 05 30 24.4 | C | | 0.9 | 64mu | 1.9 | |
| 18 | eP | 08 35 43 | | | | | | |
| 18 | iP | 09 52 44.9 | D | | | | | |
| 18 | eP | 10 51 01 | | | | | | |
| 18 | iP | 21 42 39.3 | C | | | | | |
| 19 | iP | 02 31 07.8 | C | LZ | 20.0 | 3 u | | |
| | | | | LN | 20.0 | 3 u | | |
| | | | | LE | 20.0 | 3 u | | |
| 19 | eP | 03 44 02 | | | | | | |
| 19 | iPKP | 06 32 07.8 | C | | 0.9 | 119mu | 2.1 | |
| 19 | iP | 16 52 24.7 | C | | 1.0 | 120mu | 2.1 | |
| 19 | iP | 16 59 46.5 | C | | | | | |
| 19 | iPKP | 21 41 16.0 | C | | | | | |
| 20 | iP | 09 50 11.6 | C | | 1.1 | 48mu | 1.6 | |
| 21 | iP | 00 07 40.0 | C | | | | | |
| 22 | iP | 04 45 51.1 | C | | 0.8 | 75mu | 2.0 | Marble Bar |
| 22 | eP | 14 49 17 | | | | | | |
| 23 | eP | 02 25 24 | | | | | | |
| 23 | iP | 16 23 12.1 | D | | | | | |
| 23 | iP | 20 55 07.2 | D | | 0.4 | 230mu | 2.8 | 7km S of Meckering ML = 2.9 |
| 23 | eP | 20 59 26 | | | | | | |
| 24 | iP | 02 34 03.0 | C | | 1.0 | 200mu | 2.3 | |
| | ipP | 34.16.3 | | | | | | |
| 24 | eP | 14 05 25 | | | | | | |
| 24 | eP | 20 32 12 | | | | | | |
| 24 | iP | 21 14 05.7 | C | | | | | |
| 24 | iP | 21 35 22.4 | D | | | | | |
| 25 | eP | 13 59 48 | | | | | | |
| 25 | iP | 20 03 38.0 | C | | | | | |
| 25 | iP | 22 11 14.9 | C | | | | | |
| 26 | iP | 03 43 11.9 | D | | | | | |
| 26 | iP | 20 29 44.6 | D | | | | | |
| | iS | 29 54.3 | | | | | | N Brookton ML = 1.8 |
| 27 | | Nil | | | | | | |
| 28 | iP | 03 03 35.0 | C | | | | | |
| 28 | eP | 08 31 58 | | | | | | |
| 28 | iP | 18 02 03.0 | D | | 1.0 | 640mu | 2.8 | |
| 29 | ipP | 02 09.8 | | | | | | |
| | eS | 06 22 | | | | | | |
| 29 | eP | 08 12 30 | | | | | | |
| 29 | iP | 18 04 18.0 | D | | | | | |
| 30 | iP | 02 48 50.0 | C | | 0.8 | 60mu | 1.9 | |

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|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** Cont. | | | | | | | |
| March. | | | | | | | |
| 30 | eP | 03 44 06 | | | | | |
| 30 | eP | 04 36 48 | | | | | |
| 30 | iP | 10 22 29.8 | C | | | | Marble Bar |
| 30 | iP | 16 22 58.4 | C | | | | |
| 31 | iP | 03 46 38.0 | C | | | | |
| 31 | iP | 05 55 41.0 | C | | | | |
| 31 | iP | 07 56 59.6 | D | | | | |
| | eS | 59 24 | | | | | Lake McKay |
| 31 | iP | 09 21 47.3 | C | | | | |
| 31 | iP | 10 31 42.3 | C | | | | |
| 31 | iP | 11 42 48.5 | D | 1.0 | 60mu | 1.8 | |
| 31 | eP | 20 46 16 | | | | | |
| 31 | iP | 21 02 20.3 | C | | | | |
| **KALGOORLIE (KLG)** | | | | | | | |
| MARCH. | | | | | | | |
| 01 | eP | 12 15 13 | | | | | |
| 02 | | Nil | | | | | |
| 03 | iP | 22 06 24.8 | C | | | | |
| 04 | iP | 00 38 19.8 | D | | | | |
| 04 | eP | 10 36 48 | | | | | |
| 04 | eP | 23 18 29 | | | | | |
| 05 | eP | 02 50 49 | | | | | |
| 05 | eP | 15 00 36 | | | | | |
| 05 | iP | 21 02 22.6 | C | | | | |
| 06 | iP | 21 07 15.6 | D | | | | |
| 07 | eP | 07 33 42 | | | | | |
| 07 | iP | 22 02 04.3 | D | | | | |
| 08 | eP | 11 08 11 | | | | | |
| 08 | iP | 14 18 19.1 | C | | | | |
| 08 | eP | 16 47 57 | | | | | |
| 09 | | Nil | | | | | |
| 10 | iP | 00 43 59.9 | C | | | | |
| 10 | eP | 00 48 10 | | | | | |
| 11 | iP | 03 25 27.9 | C | 0.5 | 32mu | 1.3 | Lake McKay |
| | eS | 27 10 | | | | | |
| 11 | eP | 05 45 54 | | | | | |
| | eS | 50 42 | | | | | |
| 11 | iP | 11 14 57.8 | C | | | | |
| 12 | iP | 22 41 37.7 | C | | | | |
| 13 | iP | 03 17 49.2 | C | 1.0 | 93mu | 1.9 | |
| | iS | 21 09.2 | | | | | |
| 13 | iP | 07 10 45.9 | C | | | | |
| 13 | eP | 15 56 40 | | | | | |
| 13 | iP | 19 18 53.5 | C | | | | |
| 14 | eP | 06 17 19 | | | | | |
| 14 | iP | 13 09 14.3 | C | | | | |
| 15 | eP | 10 58 18 | | | | | |
| 15 | iP | 19 06 24.3 | C | | | | |
| 15 | eP | 20 59 51 | | | | | |
| 16 | iP | 08 03 42.0 | C | 1.0 | 91mu | 1.9 | |
| 16 | iP | 12 40 34.4 | C | | | | |
| 16 | iP | 20 42 44.3 | D | 1.0 | 497mu | 2.7 | |
| 17 | iP | 03 20 28.2 | D | | | | |
| 18 | iP | 02 43 08.7 | D | | | | |
| 18 | iP | 21 42 13.3 | D | | | | |

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|---|---|---|---|---|---|---|---|
| KALGOORLIE (KLG) Cont. | | | | | | | |
| March. | | | | | | | |
| 19 | iP | 02 30 32.1 | C | | | | |
| 19 | iPKP | 06 31 55.0 | C | | | | |
| 19 | iP | 16 52 04.7 | C | | | | |
| 20 | iP | 09 50 06.6 | D | 1.0 | 62mu | 1.8 | |
| 20 | iP | 16 45 26.7 | D | | | | |
| 21 | eP | 00 07 34 | | | | | |
| | eS | 09 57 | | | | | S Marble Bar ML = 3.7 |
| 22 | iP | 04 45 55.3 | C | | | | |
| 22 | iP | 10 51 14.7 | C | | | | |
| 22 | eP | 17 45 22 | | | | | |
| 23 | eP | 02 24 55 | | | | | |
| 23 | eP | 10 04 30 | | | | | |
| 23 | iP | 16 22 52.1 | D | | | | |
| 23 | iP | 20 56 03.3 | C | | | | |
| | iS | 56 52.8 | | | | | Meekering |
| 23 | eP | 20 59 37 | | | | | |
| 24 | iP | 02 33 26.4 | C | | | | |
| | ipP | 33 39.9 | | | | | |
| 24 | eP | 14 05 28 | | | | | |
| 24 | eP | 20 31 56 | | | | | |
| 24 | iP | 21 14 11.9 | C | | | | |
| 25 | eP | 13 59 18 | | | | | |
| 26 | | Nil | | | | | |
| 27 | | Nil | | | | | |
| 28 | iP | 08 32 07.6 | D | | | | |
| 28 | iP | 18 01 38.5 | D | 1.0 | 680mu | 2.8 | |
| 29 | | Nil | | | | | |
| 30 | iP | 04 44 19.1 | D | | | | |
| 31 | eP | 10 21 32 | | | | | |
| 31 | eP | 11 31 25 | | | | | |
| 31 | eP | 22 01 57 | | | | | |
| MEEKATHARRA (MEK) | | | | | | | |
| MARCH. | | | | | | | |
| 01 | eP | 12 15 56 | | | | | |
| 02 | iP | 11 41 58.8 | C | | | | |
| 03 | eP | 02 27 22 | | | | | |
| 03 | iP | 08 25 49.6 | C | | | | |
| 03 | iP | 09 34 58.3 | C | | | | |
| 03 | iP | 14 13 40.1 | C | | | | |
| 03 | iP | 22 06 09.4 | C | | | | |
| 04 | iP | 00 37 59.0 | D | | | | |
| 04 | iP | 04 19 37.9 | C | | | | |
| 04 | iP | 09 10 26.4 | C | | | | |
| 04 | eP | 10 36 06 | | | | | |
| 04 | iP | 17 26 35.5 | D | | | | |
| 04 | iP | 23 18 15.5 | C | | | | |
| 05 | eP | 01 45 10 | | | | | |
| 05 | iP | 02 50 26.0 | C | | | | |
| 05 | eP | 04 00 29 | | | | | |
| | eS | 01 22 | | | | | 70km SE Marble Bar |
| 05 | eP | 14 59 45 | | | | | |
| 05 | iP | 21 02 06.1 | C | | | | |
| 06 | eP | 14 24 33 | | | | | |

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|---|---|---|---|---|---|---|---|

MEEKATHARRA (MEK) Cont.

March.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 07 | iP | 04 39 00.3 | D | | | | |
| 07 | iP | 07 33 11.7 | C | | | | |
| 07 | eP | 17 15 03 | | | | | |
| 07 | iP | 22 01 34.6 | D | | | | |
| 07 | eP | 22 55 47 | | | | | |
| 08 | eP | 11 07 41 | | | | | |
| 08 | iP | 21 37 28.6 | C | | | | |
| 09 | eP | 05 30 55 | | | | | |
| | eS | 33 38 | | | | | |
| 09 | eP | 11 47 57 | | | | | |
| 10 | eP | 00 07 57 | | | | | |
| | eS | 11 19 | | | | | |
| 10 | eP | 00 43 09 | | | | | |
| | eS | 46 18 | | | | | |
| 10 | eP | 02 26 53 | | | | | |
| 10 | iP | 11 57 54.0 | D | | | | |
| 10 | eP | 17 09 38 | | | | | |
| | eS | 12 18 | | | | | |
| 11 | eP | 03 25 13 | | | | | Lake McKay |
| | eS | 26 43 | | | | | |
| 11 | eP | 05 45 07 | | | | | |
| | eS | 48 49 | | | | | |
| 11 | iP | 11 14 27.8 | C | | | | |
| 12 | eP | 04 30 58 | | | | | |
| | iP | 12 43 06.7 | C | | | | |
| | eS | 46 27 | | | | | |
| 12 | iP | 14 38 12.2 | D | | | | |
| 12 | eP | 15 02 03 | | | | | |
| 12 | iP | 22 41 03.8 | C | | | | |
| 13 | iP | 03 16 59.4 | D | | | | |
| | eS | 20 20 | | | | | |
| 13 | eP | 03 38 10 | | | | | |
| 13 | eP | 12 34 27 | | | | | |
| 13 | iP | 15 57 00.7 | D | | | | |
| | eS | 16 04 37 | | | | | |
| 13 | iP | 19 18 49.5 | C | | | | |
| 14 | eP | 06 17 43 | | | | | |
| 14 | eP | 13 09 01 | | | | | |
| 14 | eP | 14 26 48 | | | | | |
| 15 | eP | 10 58 38 | | | | | |
| 15 | iP | 19 06 40.0 | D | | | | |
| 15 | iP | 21 00 07.5 | C | | | | |
| 16 | eP | 08 03 13 | | | | | |
| 16 | iP | 12 40 44.5 | D | | | | |
| 16 | iP | 20 42 13.8 | C | | | | |
| 17 | eP | 03 20 17 | | | | | |
| 18 | iP | 02 43 30.1 | D | | | | |
| 18 | eP | 05 30 15 | | | | | |
| 18 | iP | 09 51 56.4 | D | | | | |
| 18 | iP | 10 49 50.8 | C | | | | |
| 18 | eP | 17 15 16 | | | | | |
| 18 | iP | 21 30 25.0 | C | | | | |

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|---|---|---|---|---|---|---|---|
| MEEKATHARRA (MEK) Cont. | | | | | | | |
| March. | | | | | | | |
| 18 | eP | 21 42 57 | | | | | |
| 19 | iP | 02 30 53.5 | C | | | | |
| 19 | iPKP | 06 32 06.0 | C | | | | |
| 19 | iP | 16 51 34.4 | C | | | | |
| 19 | iP | 16 58 55.9 | C | | | | |
| 20 | iP | 09 49 19.0 | C | | | | |
| | eS | 52 41 | | | | | |
| 20 | eP | 08 59 15 | | | | | |
| 21 | eP | 00 06 28 | | | | | Marble Bar |
| | eS | 07 28 | | | | | |
| 21 | iP | 15 25 51.7 | C | | | | |
| 22 | iP | 04 45 30.9 | C | | | | |
| 22 | eP | 14 48 05 | | | | | |
| | eS | 50 41 | | | | | |
| 22 | iP | 19 24 37.1 | C | | | | |
| 23 | iP | 02 25 17.1 | C | | | | |
| 23 | eP | 09 45 32 | | | | | |
| 23 | eP | 10 04 01 | | | | | |
| 23 | iP | 16 22 21.6 | C | | | | |
| 23 | eP | 20 56 11 | | | | | Meckering |
| | eS | 57 09 | | | | | |
| 23 | eP | 20 59 10 | | | | | |
| 23 | eP | 23 13 40 | | | | | |
| 24 | iP | 02 33 26.5 | C | | | | |
| 24 | iP | 21 13 45.6 | C | | | | |
| 24 | iP | 21 34 33.0 | C | | | | |
| 25 | iP | 20 03 18.2 | D | | | | |
| 25 | iP | 22 10 26.3 | D | | | | |
| 26 | iP | 08 05 36.2 | D | | | | |
| 26 | eP | 11 40 06 | | | | | |
| 27 | iP | 01 28 54.5 | C | | | | |
| 28 | iP | 12 04 58.4 | D | | | | |
| 28 | eP | 08 31 30 | | | | | |
| 28 | iP | 18 00 59.9 | C | | | | |
| | eS | 04 07 | | | | | |
| 28 | eP | 22 28 15 | | | | | |
| 29 | | Nil | | | | | |
| 30 | iP | 02 48 38.3 | D | | | | |
| 30 | iP | 03 43 39.3 | C | | | | |
| 30 | eP | 04 35 37 | | | | | Marble Bar |
| | eS | 36 35 | | | | | |
| 30 | iP | 07 47 04.8 | C | | | | |
| 30 | iP | 10 21 43.0 | D | | | | |
| 30 | eP | 11 44 05 | | | | | |
| 30 | iP | 16 22 12.0 | D | | | | |
| 31 | iP | 05 54 51.9 | C | | | | |
| 31 | eP | 07 56 02 | | | | | Lake McKay |
| | eS | 57 32 | | | | | |
| 31 | iP | 09 21 00.9 | C | | | | |
| 31 | eP | 10 30 55 | | | | | |
| | eS | 33 28 | | | | | |
| 31 | iP | 11 42 45.6 | C | | | | |
| 31 | iP | 20 45 36.9 | D | | | | |
| 31 | iP | 21 01 28.1 | C | | | | |

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|---|---|---|---|---|---|---|---|
| KARRATHA (KAA) | | | | | | | |
| March. | | | | | | | |
| 01-02 | | Nil | | | | | |
| 03 | iP | 01 07 41.8 | D | | | | |
| 03 | iP | 02 26 03:4 | D | | | | |
| | iS | 28 22.4 | | | | | |
| 03 | iP | 22 05 44.2 | C | | | | |
| 04 | iP | 00 37 26.4 | D | 1.1 | 340mu | 2.5 | |
| 04 | iP | 09 11 33.5 | D | | | | |
| 04 | eP | 10 35 26 | | | | | |
| 05 | iP | 04 00 14.3 | C | 0.4 | 10mu | 1.4 | 70km SE Marble Bar mb = 3.8 |
| | eS | 00 49 | | | | | |
| 05 | iP | 14 58 27.1 | D | 1.0 | 48mu | 1.6 | |
| 05 | iP | 21 01 38.8 | C | 1.0 | 128mu | 2.1 | |
| 10 | iP | 00 41 51.1 | D | | | | |
| 11 | iP | 03 25 19.5 | D | 0.5 | 34mu | 1.8 | Lake McKay |
| | eS | 26 56 | | | | | |
| 12 | | Nil | | | | | |
| 13 | iP | 15 57 15.7 | D | | | | |
| 13 | iP | 19 18 36.9 | C | | | | |
| 14 - 15 | | Nil | | | | | |
| 16 | iP | 08 02 30.6 | C | | | | |
| 16 | eP | 20 41 30 | | | | | |
| 17 | iP | 03 19 52.8 | C | | | | |
| | iS | 25 24.8 | | | | | |
| 18 | iP | 21 29 20.0 | C | | | | |
| 18 | iP | 21 41 30.1 | C | | | | |
| 19 | | Nil | | | | | |
| 20 | iP | 02 13 26.1 | C | 0.9 | 103mu | 2.1 | |
| 20 | eP | 09 48 03 | | | | | |
| | iS | 50 16.7 | | | | | |
| 20 | eP | 09 59 21 | | | | | |
| 21 | iP | 00 06 02.7 | D | | | | |
| | iS | 06 33.7 | | | | | Marble Bar |
| 22-31 | | Time corrections uncertain | | | | | |

P.J. Gregson,
Observer-in-Charge.

International Seismological Centre

COMMONWEALTH OF AUSTRALIA

Department of National Development

Bureau of Mineral Resources, Geology and Geophysics

# MUNDARING GEOPHYSICAL OBSERVATORY

## APRIL 1971

MUNDARING (MUN)

Latitude: 31°58.7'S Longitude: 116°12.5'E

Height: 253 Metres

Foundation: Precambrian granite

KALGOORLIE (KLG)

Latitude: 30°47' 01.2"S Longitude: 121°27' 28.9"E

Height: 350 Metres

Foundation Alluvium-covered Precambrian basic metasediments

MEEKATHARRA (MEK)

Latitude: 26°36'46"S Longitude: 118°32'42"E

Height: 515 Metres

Foundation: Archean Sedimentary rock

KARRATHA (KAA)

Latitude: 20°46.6'S Longitude: 116°51.5'E

Height: 15 Metres

Foundation: Precambrian volcanics

KUNUNURRA (KNA)

Latitude: 15 50°45.0'S Longitude: 128°46.0'E

Height: 55 Metres

Foundation: Unweathered upper Devonian sandstone.

All correspondence relating to these seismographs should be addressed to:-

Observer-in-Charge,
Geophysical Observatory,
MUNDARING. 6073

| Date 1971 | Phase | G.M.T. | Dir | Per. (sec.) | | Amp. | Log A/T | |
|---|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** | | | | | | | | |
| April. | | | | | | | | |
| 01 | iP | 00.19 25.7 | C | | | | | |
| 01 | iP | 01 45 55.1 | D | | | | | 45km E Mooniin ML = 2.4 |
| | iS | 46 14.9 | | | | | | |
| 01 | eP | 05 44 29 | | | | | | |
| 01 | eP | 12 42 03 | | LZ | 20.0 | 6 u | | |
| | | | | LN | 20.0 | 0 u | | |
| | | | | LE | 20.0 | 6 u | | |
| 01 | iP | 19 47 24.8 | D | | | | | |
| 02 | eP | 04 23 55 | | | | | | |
| 02 | iP | 05 08 40.5 | C | | | | | |
| 02 | eP | 19 23 23 | | | | | | |
| 03 | iP | 04 39 27.4 | C | | | | | |
| 03 | iP | 04 59 54.5 | C | | | | | |
| 04 | iP | 10 27 39.1 | C | | | | | |
| | eS | 37 44 | | | | | | |
| 04 | iP | 18 39 34.0 | D | | | | | |
| 04 | iP | 18 51 10.5 | C | 1.0 | | 100mu | 2.0 | |
| 05 | iP | 03 06 48.8 | D | | | | | |
| 05 | iP | 05 08 40.5 | C | | | | | |
| 05 | eP | 14 35 24 | | | | | | |
| 06 | iP | 11 15 23.8 | D | 1.0 | | 300mu | 2.5 | |
| 06 | iP | 16 05 51.5 | D | | | | | |
| 06 | iP | 16 10 10.1 | D | | | | | |
| 07 | iP | 05 06 40.5 | D | | | | | |
| 07 | iP | 21 07 54.9 | D | | | | | |
| 08 | iP | 07 52 04.0 | C | | | | | |
| | ipP | 52 22.3 | | | | | | |
| 08 | iP | 11 58 17.6 | D | | | | | |
| 08 | eP | 20 11 29 | | | | | | |
| 08 | iP | 20 18 45.0 | C | | | | | |
| 09 | iP | 06 17 15.3 | C | | | | | |
| 09 | iP | 10 38 02.0 | D | | | | | |
| 09 | eP | 13 12 44 | | | | | | |
| 09 | iP | 13 55 03.5 | C | 1.0 | | 140mu | 2.2 | |
| 10 | iP | 01 31 22.0 | D | | | | | |
| 10 | eP | 04 19 57 | | | | | | Marble Bar |
| | eS | 21 35 | | | | | | |
| 10 | eP | 14 42 11 | | | | | | |
| 10 | eP | 15 33 22 | | | | | | |
| 10 | iP | 20 40 00.2 | C | 0.7 | | 27mu | 1.6 | |
| 10 | iP | 20 56 00.0 | C | 0.7 | | 17mu | 1.4 | |
| 11 | eP | 09 15 24 | | | | | | |
| 12 | iP | 19 15 48.0 | C | | | | | |
| 12 | iP | 19 44 25.9 | D | | | | | |
| 12 | iP | 21 09 50.0 | D | | | | | |
| 13 | iP | 06 08 07.4 | C | 0.8 | | 75mu | 2.0 | |
| 13 | iP | 17 56 37.7 | C | | | | | |
| 14 | eP | 04 24 16 | | | | | | |
| 14 | eP | 09 26 49 | | | | | | |
| 15 | iP | 00 45 58.1 | D | | | | | |
| 15 | eP | 03 42 59 | | | | | | |
| 16 | eP | 02 54 48 | | | | | | |
| 16 | iP | 18 03 02.0 | D | | | | | |
| 17 | iP | 01 49 23.0 | C | 0.9 | | 165mu | 2.3 | |
| 17 | iP | 04 26 00.0 | C | | | | | |

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|---|---|---|---|---|---|---|---|
| MUNDARING (MUN) | Cont. | | | | | | |
| April. | | | | | | | |
| 17 | iP | 05 15 22.4 | C | | | | |
| 17 | eP | 20 10 15 | | | | | |
| 18 | eP | 07 59 35 | | | | | |
| 18 | iP | 19 03 50.9 | C | | | | |
| 19 | eP | 21 34 01 | | | | | |
| 19 | ePKP | 05 27 28 | | | | | |
| 19 | iP | 16 57 45.3 | C | | | | |
| 20 | iP | 00 14 29.7 | C | | | | |
| 20 | eP | 04 14 12 | | | | | |
| 20 | iPKP | 14 31 39.8 | D | | | | |
| 20 | iP | 16 20 31.2 | C | | 0.8 | 155mu | 2.3 |
| 21 | iP | 11 54 26.7 | D | | | | |
| 22 | | Nil | | | | | |
| 23 | eP | 09 14 06 | | | | | |
| 23 | iP | 12 40 49.5 | C | | 0.9 | 140mu | 2.4 |
| 24 | | Nil | | | | | |
| 25 | iP | 03 45 51.1 | C | | 0.9 | 140mu | 2.4 |
| 25 | iP | 21 48 21.1 | D | | | | |
| 26 | iP | 05 23 51.7 | C | LZ | 20.0 | 3 u | |
| | | | | LN | 20.0 | 1 u | |
| | | | | LE | 20.0 | 2 u | |
| 26 | eP | 12 26 50 | | | | | |
| 26 | eP | 16 49 27 | | | | | |
| 26 | eP | 18 52 05 | | | | | |
| 27 | iP | 10 36 14.4 | D | | | | |
| 28 | iP | 14 39 30.4 | C | | | | |
| 28 | iP | 15 41 45.9 | C | | | | |
| 28 | eP | 20 24 59 | | | | | |
| 29 | iP | 16 26 29.7 | C | | | | |
| 29 | eP | 20 04 28 | | | | | |
| 30 | | Nil | | | | | |
| KALGOORLIE (KLG) | | | | | | | |
| April. | | | | | | | |
| 01 | iP | 00 18 49.8 | C | | | | |
| 01 | eP | 05 43 52 | | | | | |
| 01 | eP | 12 42 31 | | | | | |
| 01 | iP | 19 46 55.3 | D | | | | |
| 02 | iP | 06 08 47.9 | C | | | | |
| 03 | iP | 04 39 31.1 | C | | | | |
| 03 | iP | 04 59 58.4 | C | | | | |
| 04 | iP | 10 27 31.9 | D | | | | |
| 04 | iP | 18 39 02.9 | D | | | | |
| 04 | iP | 18 50 54.6 | C | | 1.0 | 124mu | 2.1 |
| 05 | iP | 03 06 28.9 | D | | | | |
| 05 | iP | 05 08 22.3 | C | | | | |
| 05 | eP | 06 00 23 | | | | | |
| 05 | iP | 07 45 49.8 | D | | | | |
| 05 | eP | 09 28 30 | | | | | |
| 05 | eP | 09 55 47 | | | | | |
| 05 | iP | 14 34 54.0 | D | | | | |
| 06 | iP | 11 14 53.0 | D | | 1.1 | 240mu | 2.4 |
| 06 | iP | 16 05 27.0 | C | | | | |
| 06 | iP | 16 09 39.1 | D | | 0.9 | 78mu | 2.0 |
| 07 | iP | 05 06 18.8 | D | | | | |
| 08 | iP | 07 52 16.1 | C | | | | |
| 09 | iP | 06 19 21.2 | C | | | | |
| 09 | iP | 13 54 48.1 | D | | | | |

Marble Bar

International Seismological Centre

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|---|---|---|---|---|---|---|
| KALGOORLIE (KLG) Cont. | | | | | | |
| April. | | | | | | |
| 10 | iP | 01 30 51.0 | D | | | |
| 11 | | Nil | | | | |
| 12 | iP | 19 16 02.4 | C | | | |
| 12 | iP | 19 43 54.8 | D | | | |
| 12 | iP | 21 09 19.1 | D | 0.7 | 120mu | 2.2 |
| 13 | iP | 06 07 37.0 | C | | | |
| 13 | iP | 17 56 06.6 | D | 0.8 | 90mu | 2.0 |
| 14 | | Nil | | | | |
| 15 | iP | 00 45 30.1 | D | 0.9 | 365mu | 2.6 |
| 16 | | Nil | | | | |
| 17 | iP | 01 48 45.9 | C | | | |
| 18 | eP | 07 59 08 | | | | |
| 19 | eP | 05 37 17 | | | | |
| 19 | iP | 16 57 45.2 | D | | | |
| 19 | iP | 21 04 45.2 | D | | | |
| 20 | iP | 16 20 12.3 | C | | | |
| 21 | iP | 11 54 05.4 | D | | | |
| 22 | | Nil | | | | |
| 23 | iP | 10 50 31.2 | D | | | |
| 23 | iP | 12 40 12.5 | C | | | |
| 24 | | Nil | | | | |
| 25 | iP | 03 45 55.0 | D | 1.0 | 156mu | 2.2 |
| 25 | iP | 21 47 48.0 | D | | | |
| 26 | iP | 03 35 20.2 | C | | | |
| 26 | iP | 12 26 25.4 | D | | | |
| 27 | eP | 03 26 56 | | | | |
| 27 | iP | 10 12 57.2 | C | | | |
| 28 | iP | 14 39 04.2 | C | | | |
| 28 | iP | 15 24 44.2 | C | | | |
| 28 | iP | 15 41 48.2 | C | | | |
| 28 | eP | 20 24 34 | | | | |
| 29 | iP | 20 04 14.1 | D | | | |
| 30 | iP | 04 02 09,0 | C | | | |
| MEEKATHARRA (MEK) | | | | | | |
| April. | | | | | | |
| 01 | iP | 00 19 06.0 | D | | | |
| 01 | iP | 05 44 09,9 | D | | | |
| 01 | eP | 12 42 11 | | | | |
| 01 | iP | 19 47 21.5 | D | | | |
| 02 | iP | 01 23 11.8 | C | | | |
| 02 | iP | 05 09 34.0 | C | | | |
| 03 | iP | 04 01 07.1 | C | | | Marble Bar |
| | eS | 01 58 | | | | |
| 03 | eP | 04 08 57 | | | | Marble Bar |
| 03 | iP | 04 38 42.9 | D | | | |
| 03 | iP | 04 59 27.0 | C | | | |
| 04 | iP | 18 50 35.7 | C | | | |
| 05 | eP | 04 26 19 | | | | Marble Bar |
| 05 | iP | 05 07 50.2 | D | | | |
| 06 | iP | 11 15 14.1 | D | | | |
| 06 | iP | 16 05 10.8 | C | | | |
| 06 | iP | 16 10 02.1 | C | | | |
| 07 | iP | 05 05 50.2 | D | | | |
| 08 | | No record | | | | |
| 09-12 | | Records distorted | | | | |

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|---|---|---|---|---|---|---|

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MEEKATHARRA (MEK) Cont.

| | | | | | | |
|---|---|---|---|---|---|---|
| April. | | | | | | |
| 13 | iP | 17 56 26.0 | D | | | |
| 14 | eP | 09 23 49 | | | | |
| 15 | iP | 00 46 00.0 | C | | | |
| 15 | iP | 08 58 40.0 | C | | | |
| 15 | iP | 16 48 15.8 | D | | | |
| 15 | iP | 17 48 55.0 | C | | | |
| | eS | 49 50 | | | | |
| 16 | iP | 02 52 47.0 | C | | | |
| 16 | iP | 18 02 12.8 | C | | | |
| 17 | iP | 01 48 49.0 | D | | | |
| 17 | iP | 04 24 49.0 | C | | | |
| 17 | iP | 05 14 40.0 | C | | | |
| 17 | eP | 10 51 32 | | | | |
| 17 | iP | 20 10 00.0 | C | | | |
| 18 | iP | 07 58 44.6 | C | | | |
| 18 | iP | 21 33 00.5 | C | | | |
| 19 | iP | 16 58 35.0 | D | | | |
| 20 | iP | 00 13 48.1 | C | | | |
| 20 | iP | 16 19 42.0 | C | | | |
| 21 | iP | 11 53 36.5 | C | | | |
| 22 | | Nil | | | | |
| 23 | eP | 09 11 21 | | | | |
| 23 | iP | 10 50 00.8 | D | | | Marble Bar |
| 23 | iP | 12 40 15.7 | C | | | |
| 23 | iP | 22 42 20.7 | C | | | |
| 24 | iP | 02 44 22.5 | C | | | |
| 24 | iP | 15 07 34.2 | C | | | |
| 25 | iP | 03 45 30.6 | C | | | |
| 25 | eP | 21 47 34 | | | | |
| 26 | iP | 05 23 15.4 | C | | | |
| 26 | iP | 07 02 23.1 | C | | | |
| 26 | eP | 12 25 59 | | | | |
| 26 | iP | 15 52 51.1 | C | | | |
| 26 | iP | 16 48 34.0 | D | | | |
| 27 | iP | 10 36 03.2 | C | | | |
| 28 | iP | 12 40 12.3 | D | | | |
| 28 | iP | 14 39 37.9 | D | | | |
| 28 | eP | 15 41 13 | | | | |
| 28 | iP | 20 24 05.5 | C | | | |
| 29 | iP | 20 03 41.9 | C | | | |
| 30 | | Record poor | | | | |

KUNUNURRA (KNA)

| | | | | | | |
|---|---|---|---|---|---|---|
| April | | | | | | |
| 01-20 | | No records | | | | |
| 21 | eP | 23 23 13 | | | | |
| 22 | iP | 11 21 06.6 | C | | | |
| 23 | | No timemarks | | | | |
| 24 | iP | 15 07 57.5 | C | | | |
| 24 | iP | 17 04 58.8 | C | | | |
| 25 | iP | 01 37 44.2 | D | | | |
| 25 | eP | 02 29 16 | | | | |
| 25 | iP | 03 45 27.3 | C | | | |
| 25 | eP | 06 57 23 | | | | |
| 25 | iP | 08 13 46.7 | D | | | |
| 25 | eP | 21 45 33 | | | | |
| 26 | | Time corrections uncertain | | | | |
| 27 | eP | 03 24 20 | | | | |

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|---|---|---|---|---|---|---|---|
| KUNUNURRA (KNA) | Cont. | | | | | | |
| April. | | | | | | | |
| 27 | iP | 09 09 27.2 | D | | | | |
| 28 | iP | 15 40 34.2 | C | | | | |
| 28 | iP | 20 21 29.5 | D | | | | |
| 29 | eP | 02 23 47 | | | | | |
| 29 | iP | 20 02 14.5 | D | | | | |
| 30 | iP | 04 00 11.7 | C | | | | |
| KARRATHA (KAA) | | | | | | | |
| April. | | | | | | | |
| 01 | eP | 00 19 20 | | | | | |
| 01 | eP | 05 44 22 | | | | | |
| 02 | | Nil | | | | | |
| 03 | iP | 04 00 57.3 | C | | | | |
| | eS | 01 32 | | | | | Marble Bar |
| 03 | iP | 04 08 33.1 | C | | | | |
| | eS | 09 07 | | | | | Marble Bar |
| 03 | iP | 04 39 08.5 | C | | | | |
| | eS | 39 43 | | | | | Marble Bar |
| 03 | iP | 04 58 46.5 | C | | | | |
| 04 | eP | 10 28 31 | | | | | |
| 05 | | Nil | | | | | |
| 06 | iP | 11 15 33.6 | D | | | | |
| 06 | iP | 16 04 42.8 | C | | | | |
| 06 | iP | 16 10 22.2 | D | 0.8 | 210mu | 2.4 | |
| 07 | iP | 05 05 09.3 | D | | | | |
| 08 | iP | 07 50 43.1 | C | | | | |
| 09 | iP | 13 53 29.5 | C | | | | |
| 10 | iP | 01 31 30.4 | D | | | | |
| 10 | eP | 04 18 18 | | | | | |
| | eS | 18 50 | | | | | Marble Bar |
| 10 | iP | 15 31 52.2 | C | | | | |
| 11 | eP | 09 13 46 | | | | | |
| 12 | iP | 19 15 22.7 | D | | | | |
| 12 | iP | 19 44 44.8 | D | | | | |
| 13 | iP | 17 56 40.9 | D | | | | |
| 14-17 | | No record | | | | | |
| 18 | iP | 07 58 06.9 | C | | | | |
| 18 | iPKP | 18 01 04.5 | C | | | | |
| 18 | iP | 21 31 47.3 | D | 0.8 | 32mu | 1.5 | |
| 19 | eP | 14 18 59 | | | | | |
| 20 | iP | 14 32 26.5 | C | | | | |
| 20 | iP | 16 19 22.1 | C | 0.8 | 350mu | 2.6 | |
| 21 | iP | 11 53 18.7 | C | | | | |
| 22 | | Nil | | | | | |
| 23 | eP | 09 11 10 | | | | | Marble Bar ML = 3.1 |
| 23 | iP | 12 40 11.0 | C | | | | |
| 23 | iP | 18 31 22.6 | D | | | | ML = 2.8 |
| | iS | 35.8 | | | | | Local |
| 24-27 | | Nil | | | | | |
| 28 | eP | 14 40 18 | | | | | |
| 28 | eP | 15 40 27 | | | | | |
| 29 | eP | 18 02 22 | | | | | |
| 29 | eP | 20 02 55 | | | | | |
| 30 | | Nil | | | | | |

P.J. Gregson,
Observer-in-Charge.

International Seismological Centre

International Seismological Centre

COMMONWEALTH OF AUSTRALIA

Department of National Development

Bureau of Mineral Resources, Geology and Geophysics

# MUNDARING GEOPHYSICAL OBSERVATORY

MAY - JUNE 1971

## MUNDARING (MUN)

Latitude: 31°58.7'S Longitude: 116°12.5'E

Height: 253 Metres

Foundation: Precambrian granite

## KALGOORLIE (KLG)

Latitude: 30°47' 01.2"S Longitude: 121°27' 28.9"E

Height: 350 Metres

Foundation Alluvium-covered Precambrian basic metasediments

## MEEKATHARRA (MEK)

Latitude: 26°36'46"S Longitude: 118°32'42"E

Height: 515 Metres

Foundation: Archean Sedimentary rock

## KARRATHA (KAA)

Latitude: 20°46.6'S Longitude: 116°51.5'E

Height: 15 Metres

Foundation: Precambrian volcanics

## KUNUNURRA (KNA)

Latitude: 15 50°45.0'S Longitude: 128°46.0'E

Height: 55 Metres

Foundation: Unweathered upper Devonian sandstone.

All correspondence relating to these seismographs should be addressed to:-

Observer-in-Charge,
Geophysical Observatory,
MUNDARING. 6073

# INSTRUMENTATION

International Seismological Centre

## MUNDARING

World wide standard seismograph system No. 44

| | | |
|---|---|---|
| Nominal magnification | S,P-Z, N, E | 25000 at 1 second |
| | LP-Z | 750 at 15 seconds |
| | LP-N, E | 375 at 15 seconds |

| | Component | Seismometer | Galvanometer | Magnification |
|---|---|---|---|---|
| KALGOORLIE | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 15,800 at 1 second |
| | SP-SW | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.25 | 16,500 at 1 second |
| | SP-NW | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.25 | 16,500 at 1 second |
| MEEKATHARRA | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 9,000 at 1 second |
| KARRATHA | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 31,000 at 1 second |
| KUNUNURRA | SP- Z | Willmore Mk1 To = 1.0 | Willmore Tg = 0.25 | 20,000 at 1 second |

Timemarks for all stations other than Mundaring are normally supplied from an EMI crystal clock controlled by VNG or ABC radio pips.

Magnification curves are available on request.

| Date 1971 | Phase | G.M.T. | Dir. | Per. (sec.) | Amp. | LogA/T | |
|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** | | | | | | | |
| May. | | | | | | | |
| 01 | iP | 14 24 15.0 | C | 0.8 | 60mu | 1.9 | |
| 02 | iP | 03 04 31.4 | C | 0.35 | 1mu | 0.4 | Ord River blast. |
| 03 | eP | 10 57 54 | | | | | |
| 04 | iP | 02 10 11.0 | C | | | | |
| 05 | eP | 04 34 21 | | | | | |
| 05 | iP | 06 52 22.6 | D | | | | Meokering ML = 2.6 |
| | iS | 52 31.8 | | | | | |
| 06 | iP | 09 34 42.3 | D | | | | Meokering ML = 2.6 |
| | iS | 34 51.8 | | | | | |
| 07 | iP | 00 18 28.1 | D | 0.8 | 135mu | 2.2 | |
| 07 | eP | 00 27 18 | | | | | |
| | | | LZ | 20.0 | 22 u | | |
| | | | LN | 20.0 | 14 u | | |
| | | | LE | 20.0 | 14 u | | |
| 07 | iP | 08 54 45.1 | D | 0.9 | 42mu | 1.8 | |
| 07 | iP | 09 06 21.5 | C | | | | |
| 08 | eP | 08 38 05 | | | | | |
| 08 | iP | 12 00 30.0 | D | 1.0 | 60mu | 1.8 | |
| 09 | iP | 08 38 41.3 | C | | | | |
| 09 | iP | 19 38 31.7 | C | | | | |
| 10 | iP | 12 01 35.8 | D | 1.0 | 200mu | 2.3 | |
| 10 | eP | 15 04 19 | | | | | |
| 11 | iP | 00 18 57.7 | D | | | | |
| 12 | iP | 02 56 32.5 | C | 1.0 | 80mu | 1.9 | |
| 12 | eP | 09 18 18 | | | | | 150km S Onslow |
| | eS | 19 53 | | | | | |
| 13-15 | | Nil | | | | | |
| 16 | iP | 05 20 48.6 | C | 0.7 | 65mu | 2.0 | |
| 16 | iP | 05 22 32.7 | D | | | | |
| 16 | iP | 15 36 26.9 | D | | | | |
| 16 | eP | 16 24 06 | | | | | |
| 17 | iP | 03 42 53.4 | C | | | | |
| 17 | iP | 08 53 09.8 | C | | | | |
| 17 | eP | 10 21 37 | | | | | |
| 17 | iP | 11 23 21.5 | D | 0.7 | 510mu | 2.9 | |
| 17 | iP | 11 57 40.5 | D | | | | |
| 18 | iP | 00 54 43.7 | D | | | | |
| 18 | iP | 07 08 26.6 | D | | | | |
| 19 | eP | 03 45 07 | | | | | |
| 19 | iP | 04 24 38.0 | D | | | | 55km S Onslow |
| 19 | iP | 11 13 32.3 | D | | | | |
| 19 | iP | 22 17 41.8 | D | | | | |
| 20 | | Nil | | | | | |
| 21 | eP | 21 03 07 | | | | | |
| 22 | eP | 19 42 18 | | | | | |
| 22 | iP | 19 46 01.6 | C | | | | |
| 23 | eP | 12 03 50 | | | | | |
| 23 | iP | 15 14 42.8 | D | | | | |
| 24-25 | | Nil | | | | | |
| 26 | iP | 00 11 23.0 | C | | | | |
| 26 | iP | 00 20 57.3 | D | | | | |
| 26 | iP | 07 28 28.7 | C | | | | |
| 27 | iP | 16 48 20.4 | D | | | | |
| | epP | 48 55 | | | | | |
| | eS | 53 35 | | | | | |

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|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** Cont. | | | | | | | |
| May. | | | | | | | |
| 27 | iP | 23 10 45.0 | C | | | | |
| 28 | eP | 04 19 18 | | | | | 1201 SW Onslow |
| | eS | 20 58 | | | | | |
| 28 | iP | 13 00 19.4 | C | | | | |
| 28 | iP | 14 15 18.4 | C | | | | |
| 28 | iP | 14 31 43.8 | D | | | | |
| 30 | eP | 15 54 23 | | LZ | 20.0 | 22 u | |
| | | | | LN | 20.0 | 11 u | |
| | | | | LE | 20.0 | 13 u | |
| 31 | eP | 05 24 04 | | LZ | 20.0 | 4 u | |
| | | | | LN | 20.0 | 4 u | |
| | | | | LE | 20.0 | 3 u | |
| **KALGOORLIE (KLG)** | | | | | | | |
| May. | | | | | | | |
| 01 | iP | 14 23 40.2 | C | 1.0 | 160mu | 2.2 | |
| 01 | iP | 14 51 46.7 | C | | | | |
| 02 | iP | 03 03 47.9 | C | | | | Ord River blast. |
| 02 | iP | 03 09 43.5 | C | | | | |
| 02 | iP | 06 22 05.1 | C | | | | |
| 03 | eP | 10 57 15 | | | | | |
| 04 | iP | 01 03 07.0 | C | | | | |
| 04 | iP | 02 10 20.6 | C | | | | |
| 05 | eP | 01 52 09 | | | | | |
| 05 | eP | 04 33 52 | | | | | |
| 05 | eP | 06 53 04 | | | | | Meckering |
| 05 | iP | 22 20 51.1 | D | | | | |
| 06 | eP | 09 35 38 | | | | | Meckering |
| | eS | 36 27 | | | | | |
| 07 | iP | 00 17 57.8 | D | | | | |
| 07 | eP | 00 27 02 | | | | | |
| 07 | iP | 08 54 08.4 | D | | | | |
| 07 | iP | 19 57 33.6 | D | | | | |
| 08 | eP | 08 37 28 | | | | | |
| 08 | iP | 12 00 12.4 | D | | | | |
| 08 | iP | 18 16 16.4 | C | | | | |
| 09 | iP | 08 38 34.3 | C | | | | |
| 09 | iP | 19 38 41.4 | D | 1.0 | 186mu | 2.3 | |
| 10 | iP | 12 01 17.2 | D | | | | |
| 10 | iP | 15 04 26.6 | C | | | | |
| 11 | | Nil | | | | | |
| 12 | iP | 02 55 55.7 | C | | | | |
| 13 | | Nil | | | | | |
| 14 | iP | 14 01 29.0 | C | | | | |
| 15 | | Nil | | | | | |
| 16 | iP | 05 20 17.6 | D | | | | |
| 17 | iP | 10 21 10.8 | D | | | | |
| 17 | iP | 11 23 17.8 | C | 0.6 | 196mu | 2.5 | |
| 17 | iP | 11 57 04.1 | C | | | | |
| 18 | iP | 00 54 13.8 | D | 1.0 | 280mu | 2.4 | |
| 18 | iP | 07 07 55.9 | C | | | | |
| 18 | iP | 11 50 10.3 | C | | | | |
| 18 | iP | 22 58 09.9 | D | | | | |
| 19 | iP | 03 23 11.6 | C | | | | |
| 19 | eP | 04 24 31 | | | | | 55km S Onslow |
| 19 | iP | 11 13 10.5 | D | | | | |

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|---|---|---|---|---|---|---|
| KALGOORLIE (KLG) Cont. | | | | | | |
| May. | | | | | | |
| 19 | iP | 11 46 40.9 | D | | | |
| 20 | | Nil | | | | |
| 21 | eP | 21 02 38 | | | | |
| 22 | eP | 19 41 52 | | | | |
| 22 | eP | 20 14 33 | | | | |
| 23 | iP | 12 03 37.4 | D | | | |
| 23 | iP | 18 03 13.4 | C | | | |
| 24 | | Nil | | | | |
| 25 | iP | 13 10 39.3 | C | | | |
| 26 | iP | 00 11 01.5 | C | | | |
| 26 | eP | 00 20 27 | | | | |
| 26 | iP | 02 54 38.1 | C | | | |
| 26 | iP | 06 23 34.2 | D | | | |
| 26 | iP | 07 27 58.0 | C | | | |
| 27 | iP | 16 47 54.9 | C | | | |
| | iPcP | 51 15.1 | | | | |
| | eX | 52 35 | | | | |
| 27 | iP | 23 10 30.2 | D | | | |
| 28 | iP | 12 59 56.2 | D | | | |
| 28 | iP | 14 31 33.1 | D | | | |
| 29 | | Nil | | | | |
| 30 | iP | 04 48 20.3 | D | | | |
| 30 | eP | 15 54 29 | | | | |
| 31 | eP | 05 24 09 | | | | |
| 31 | iP | 09 18 51.6 | C | | | |
| MEEKATHARRA (MEK) | | | | | | |
| May. | | | | | | |
| 1-2 | | Fogged records | | | | |
| 03 | eP | 04 15 49 | | | | |
| 03 | iP | 10 57 27.9 | C | | | |
| 04 | iP | 02 09 37.9 | C | | | |
| 04 | iP | 16 54 08.1 | C | | | |
| | eS | 57 14 | | | | |
| 05 | eP | 00 00 07 | | | | |
| 05 | eP | 04 33 36 | | | | |
| 05 | iP | 06 07 09.5 | D | | | |
| 05 | iP | 20 55 30.2 | C | | | |
| 07 | iP | 00 18 19.8 | D | | | |
| 07 | iP | 00 26 24.5 | D | 0.9 | 200mu | 2.3 |
| 07 | iP | 00 49 04.3 | D | | | |
| 07 | iP | 08 54 24.0 | D | | | |
| 07 | eP | 09 05 59 | | | | |
| 07 | eP | 09 09 55 | | | | |
| 07 | eP | 15 15 01 | | | | |
| 07 | iP | 19 13 23.9 | C | | | |
| 08 | eP | 06 28 37 | | | | |
| 08 | iP | 11 59 40.0 | D | 0.6 | 216mu | 2.6 |
| 08 | iP | 18 15 46.1 | D | | | |
| 08 | iP | 21 55 00.6 | C | | | |
| 08 | eP | 22 39 15 | | | | |
| 09 | iP | 14 06 14.0 | D | | | |
| 09 | eP | 19 07 21 | | | | |
| 09 | iP | 19 38 15.1 | D | | | |
| 10 | iP | 12 00 47.1 | D | | | |
| 10 | eP | 12 35 26 | | | | |
| 11 | iP | 00 18 15.9 | C | 0.6 | 90mu | 2.2 |

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|---|---|---|---|---|---|---|---|
| MEEKATHARRA (MEK) Cont. | | | | | | | |
| May. | | | | | | | |
| 12 | iP | 02 55 57.0 | C | | | | |
| 12 | iP | 20 28 21.2 | D | | | | |
| 13 | iP | 09 06 47.5 | C | | | | |
| 14 | iP | 08 01 41.0 | D | | | | |
| 15 | iP | 16 09 02.2 | C | | | | |
| 16 | iP | 05 20 37.4 | D | | | | |
| 16 | iP | 15 40 24.0 | C | | | | |
| 16 | iP | 20 54 54.1 | D | | | | |
| 17 | iP | 10 20 47.0 | D | | | | |
| 17 | iP | 11 23 29.9 | C | | | | |
| 17 | iP | 11 57 07.9 | C | | | | |
| 18 | iP | 00 54 40.0 | D | | | | |
| 18 | iP | 07 08 17.0 | C | | | | |
| 18 | eP | 11 49 54 | | | | | |
| 18 | iP | 22 57 53.4 | C | | | | |
| 19 | iP | 02 55 33.5 | D | | | | |
| 19 | iP | 04 23 26.4 | C | | | | 55km S Onslow |
| 19 | eP | 05 50 09 | | | | | |
| 19 | iP | 11 12 42.4 | D | | | | |
| 19 | iP | 11 46 29.3 | C | | | | |
| 19 | iP | 22 17 21.2 | C | | | | |
| 20 | | Nil | | | | | |
| 21 | iP | 00 40 05.7 | D | | | | |
| 22 | iP | 19 41 03.8 | C | | | | |
| | iS | 43 53.8 | | | | | |
| 23 | iP | 04 56 43.0 | D | | | | |
| 23 | iP | 12 02 40.9 | D | 0.7 | 185mu | 2.4 | |
| | iS | , 05 29.0 | | | | | |
| 24 | eP | 22 33 15 | | | | | |
| 25 | iP | 13 10 14.6 | D | | | | |
| 26 | iP | 00 10 24.6 | D | | | | |
| | eS | 13 39 | | | | | |
| 26 | iP | 00 20 50.4 | C | | | | |
| 26 | iP | 02 54 15.0 | D | | | | |
| 26 | eP | 06 23 10 | | | | | |
| 26 | iP | 07 28 22.7 | C | | | | |
| 27 | iP | 11 11 12.9 | C | | | | |
| 27 | iP | 13 30 55.9 | D | | | | |
| 27 | iP | 16 47 29.3 | C | 0.3 | 22mu | 1.8 | |
| | eS | 51 24 | | | | | |
| 27 | iP | 23 09 57.8 | D | 0.3 | 23mu | 1.8 | |
| 28 | iP | 04 18 06.8 | C | | | | 120km SW Onsl |
| | eS | 19 05 | | | | | mb = 4.0 |
| 28 | iP | 12 59 39.2 | D | | | | |
| 28 | iP | 14 15 08.8 | D | | | | |
| 28 | iP | 14 31 43.8 | D | | | | |
| 29 | | Nil | | | | | |
| 30 | iP | 01 43 36.7 | D | | | | |
| 30 | iP | 07 16 46.8 | D | | | | |
| 30 | iP | 15 53 54.8 | C | | | | |
| 31 | eP | 05 23 35 | | | | | |

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|---|---|---|---|---|---|---|---|
| **KUNUNURRA (KNA)** | | | | | | | |
| May. | | | | | | | |
| 01 | iP | 14 23 05.5 | C | | | | |
| 02 | iP | 03 00 14.5 | C | 0.2 | 340mu | 3.0 | Ord River blast. |
| 02 | iP | 06 20 42.2 | D | | | | |
| 02 | iP | 18 03 30.2 | D | | | | |
| 03 | iP | 02 37 54.2 | C | | | | |
| 03 | eP | 10 55 53 | | | | | |
| 04 | iP | 02 09 47.4 | C | | | | |
| 04 | iP | 18 51 25.7 | D | | | | |
| 05 | iP | 04 31 11.3 | C | | | | |
| 05 | iP | 20 53 17.7 | C | | | | |
| 06 | | Nil | | | | | |
| 07 | iP | 00 17 33.4 | D | 0.9 | 328mu | 2.6 | |
| 07 | eP | 00 24 52 | | | | | |
| 07 | eP | 00 40 25 | | | | | |
| 07 | iP | 00 47 31.4 | D | | | | |
| 08 | iP | 06 26 45.2 | C | | | | |
| 08 | iP | 11 47 58.1 | D | | | | |
| | iS | 49 26.1 | | | | | |
| 08 | iP | 11 57 58.8 | D | 1.0 | 336mu | 2.5 | |
| 08 | iP | 13 17 14.1 | D | | | | |
| 08 | iP | 18 14 01.2 | C | | | | |
| 09 | iP | 19 38 07.2 | D | | | | |
| 10 | iP | 11 59 03.7 | D | | | | |
| 10 | iP | 15 03 46.6 | C | | | | |
| 11 | iP | 00 16 54.8 | C | 0.9 | 287mu | 2.5 | |
| 11 | iP | 17 10 40.6 | D | | | | |
| | eS | 12 07 | | | | | |
| 12-13 | | Blank record | | | | | |
| 14 | iP | 08 01 44.4 | D | | | | |
| 15-28 | | No records | | | | | |
| 29 | | Nil | | | | | |
| 30 | iP | 01 42 24.9 | D | | | | |
| 30 | iP | 04 48 17.7 | C | | | | |
| 30 | eP | 05 40 17 | | | | | |
| 30 | iP | 07 15 39.6 | D | | | | |
| 30 | iP | 15 53 21.6 | C | | | | |
| 31 | iP | 00 10 52.6 | C | | | | |

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|---|---|---|---|---|---|---|---|
| KARRATHA (KAA) | | | | | | | |
| May. | | | | | | | |
| 01 | | Nil | | | | | |
| 02 | iP | 03 03 00.8 | C | | | | Ord Rive blast. |
| 03-06 | | No records | | | | | |
| 07 | eP | 00 18 40 | | | | | |
| 07 | iP | 00 25 25.0 | D | | | | |
| 07 | iP | 00 48 04.3 | D | | | | |
| 08 | iP | 11 58 52.3 | D | | | | |
| 08 | eP | 13 15 59 | | | | | |
| 08 | iP | 18 15 00.8 | D | | | | |
| 09 | iP | 14 05 11.9 | C | | | | |
| 09 | iP | 19 37 43.3 | D | 1.0 | 64mu | 1.8 | |
| 10 | iP | 12 59 02.8 | D | | | | |
| 11 | | Nil | | | | | |
| 12 | iP | 09 16 56.9 | C | | | | |
| | eS | 17 29 | | | | | 150km S Onslow mb = 3.8 |
| 13 | | Nil | | | | | |
| 14 | iP | 08 00 34.3 | D | | | | |
| 15-17 | | Nil | | | | | |
| 18 | iP | 00 55 04.0 | C | 0.8 | 168mu | 2.3 | |
| 18 | iP | 00 59 00.1 | C | 0.9 | 118mu | 2.1 | |
| 18 | iP | 22 57 28.2 | C | 1.0 | 32mu | 1.5 | |
| 19 | eP | 04 23 03 | | | | | |
| | iS | 23 31.2 | | | | | 55km S Onslow mb = 4.0 |
| 19 | iP | 11 12 00.6 | C | 0.9 | 42mu | 1.7 | |
| 19 | eP | 11 46 05 | | | | | |
| 19 | iP | 22 17 30.4 | C | | | | |
| 20 -21 | | Nil | | | | | |
| 22 | iP | 19 29 51.0 | D | 0.7 | 100mu | 2.2 | |
| | iS | 41 44.4 | | | | | |
| 23 | iP | 12 01 22.4 | C | 0.8 | 126mu | 2.2 | |
| 24-26 | | Nil | | | | | |
| 27 | iP | 16 46 46.6 | D | | | | |
| | eS | 49 58 | | | | | |
| 28 | eP | 04 17 44 | | | | | |
| | eS | 18 13 | | | | | 120km SW Onslow |
| 29-31 | | Nil | | | | | |

P.J. Gregson

P.J. Gregson,
Observer-in-Charge.

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|---|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** | | | | | | | | |
| June. | | | | | | | | |
| 01 | | Nil | | | | | | |
| 02 | iP | 06 15 16.6 | C | | | | | |
| 02 | iP | 14 04 04.7 | D | 0.3 | | 385mu | 3.1 | Meckering |
| | iS | 04 14.5 | | | | | | ML = 2.9 |
| 03 | | Nil | | | | | | |
| 04 | eP | 02 18 11 | | | | | | |
| 04 | iP | 17 24 47.7 | C | | | | | |
| | iX | 25 03.4 | | | | | | |
| 05 | iP | 09 28 14.9 | C | | | | | |
| 05 | iPKP | 14 40 33.5 | C | 1.0 | | 240mu | 2.4 | |
| 07-09 | | Nil | | | | | | |
| 10 | iP | 08 34 38.9 | C | | | | | |
| 10 | iP | 20 11 13.5 | C | 1.0 | | 160mu | 2.2 | |
| 11 | ePKP | 13 16 03 | | | LZ | 20.0 | 11 u | |
| | | | | | LN | 20.0 | 5 u | |
| | | | | | LE | 20.0 | 6 u | |
| 12 | iP | 02 04 06.0 | D | | | | | Meckering |
| | eS | 04 15.1 | | | | | | ML = 2.3 |
| 12 | eP | 06 08 40 | | | | | | |
| 13 | eP | 05 49 37 | | | | | | |
| 13 | iP | 07 40 37.8 | C | | | | | Meckering |
| | eS | 40 47.2 | | | | | | ML = 2.2 |
| 14 | eP | 08 45 45 | | | | | | |
| 14 | eP | 10 05 36 | | | | | | |
| 14 | eP | 14 01 44 | | | | | | |
| 15 | eP | 14 49 51 | | | | | | |
| 16 | eP | 14 49 49 | | | | | | |
| 17 | | Nil | | | | | | |
| 18 | eP | 06 22 22 | | | | | | |
| 18 | eP | 07 23 01 | | | | | | |
| 18 | iP | 21 10 51.0 | D | | | | | Meckering |
| | iS | 11 00.6 | | | | | | ML = 2.2 |
| 18 | eP | 23 03 17 | | | | | | |
| 19 | eP | 04 08 32 | | | | | | Mt. Newman |
| | eS | 10 09 | | | | | | blast |
| 19 | iP | 11 04 07.0 | C | | | | | |
| 19 | eP | 17 35 13 | | | | | | |
| 20 | eP | 01 24 20 | | | | | | |
| 21 | | Nil | | | | | | |
| 22 | iP | 14 54 48.7 | C | | | | | |
| 23 | iP | 20 47 28.0 | D | 1.0 | | 60mu | 1.8 | |
| 23 | iP | 23 58 17.3 | C | | | | | |
| | | | | | LZ | 20.0 | 3 u | |
| | | | | | LN | 20.0 | 3 u | |
| | | | | | LE | 20.0 | 3 u | |
| 24 | | No record | | | | | | |
| 25 | | Nil | | | | | | |
| 26 | iP | 02 26 36.4 | C | | | | | |
| 26 | iP | 09 34 00.0 | D | 1.0 | | 60mu | 1.8 | |
| 26 | iP | 16 28 41.7 | C | 1.0 | | 80mu | 1.9 | |
| 26 | iP | 19 33 41.5 | D | | | | | |
| | iS | 40 11.8 | | | LZ | 20.0 | 51 u | |
| | | | | | LN | 20.0 | 23 u | |
| | | | | | LE | 20.0 | 51 u | |

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|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** Cont. | | | | | | |
| June. | | | | | | |
| 27 | iP | 14 31 25.0 | C | | | |
| 27 | iP | 17 58 20.4 | C | | | |
| | iX | 59 49.0 | | | | |
| 28 | | Nil | | | | |
| 29 | iP | 00 19 41.3 | C | | | |
| 29 | eP | 20 14 08 | | | | |
| 30 | | Nil | | | | |
| **KALGOORLIE (KLG)** | | | | | | |
| June. | | | | | | |
| 01 | iP | 00 34 52.3 | D | | | |
| 02 | eP | 14 04 49 | | | | Meckering |
| 03 | | Nil | | | | |
| 04 | iP | 02 17 42.0 | D | | | |
| 04 | iP | 17 24 11.0 | C | | | |
| | iX | 24 26.2 | | | | |
| 05 | iP | 09 28 57.1 | D | | | |
| 05 | iPKP | 14 40 26.2 | C | | | |
| 06 | iP | 16 46 26.9 | D | | | |
| 07-09 | | Nil | | | | |
| 10 | iP | 20 10 59.8 | C | | | |
| 11 | eP | 13 16 04 | | | | |
| 11 | iP | 13 16 55.1 | D | | | |
| 11 | eP | 14 12 03 | | | | |
| 12 | eP | 02 05 01 | | | | Meckering |
| | eS | 05 52 | | | | |
| 12 | iP | 14 56 00.0 | D | | | |
| 12 | iP | 22 49 48.0 | C | | | |
| 12 | iP | 23 45 40.5 | D | | | |
| 13 | iP | 04 16 52.6 | C | | | |
| 13 | iP | 05 49 09.1 | D | | | |
| 13 | eP | 07 41 32 | | | | Meckering |
| | eS | 42 22 | | | | |
| 14 | | Nil | | | | |
| 15 | iP | 05 36 14.3 | C | | | |
| 15 | iP | 07 51 52.9 | C | | | |
| 15 | eP | 22 16 29 | | | | |
| 16 | iP | 01 10 53.6 | D | | | |
| 16 | iP | 14 49 54.4 | C | | | |
| 17 | iP | 18 24 48.1 | C | | | |
| 18 | eP | 07 23 00 | | | | |
| 19 | eP | 11 03 30 | | | | |
| 20 | iP | 18 59 46.1 | C | | | |
| 21 | | Nil | | | | |
| 22 | iP | 11 30 56.7 | D | | | |
| 23 | iP | 20 47 07.1 | C | | | |
| 23 | iP | 23 58 05.2 | C | | | |
| 24 | eP | 11 29 59 | | | | |
| 24 | eP | 14 01 40 | | | | |
| 25 | | Nil | | | | |
| 26 | iP | 04 10 43.1 | D | | | |
| 26 | eP | 09 33 24 | | | | |
| 26 | iP | 16 28 05.3 | C | | | |
| 26 | iP | 19 34 00.8 | C | | | |
| 26 | eP | 22 35 34 | | | | |
| 27 | iP | 14 30 54.3 | C | 0.9 | 200mu | 2.3 |
| 27 | iP | 17 57 45.5 | C | | | |

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|---|---|---|---|---|---|---|---|
| **KALGOORLIE (KLG) Cont.** | | | | | | | |
| June. | | | | | | | |
| 28 | iP | 05 12 57.2 | C | | | | |
| 29 | eP | 00 19 28 | | | | | |
| 29 | eP | 20 13 31 | | | | | |
| 30 | | Nil | | | | | |
| **MEEKATHARRA (MEK)** | | | | | | | |
| June. | | | | | | | |
| 01 | iP | 00 34 20.3 | D | | | | |
| 02 | iP | 14 05 08.0 | C | | | | Meckering |
| | iS | 06 04.0 | | | | | |
| 03 | | Nil | | | | | |
| 04 | iP | 17 24 11.3 | C | | | | |
| 05 | iP | 09 27 25.4 | C | | | | |
| 05 | iPKP | 14 40 36.8 | D | | | | |
| 06 | iP | 16 45 38.7 | C | | | | |
| 07 | | Nil | | | | | |
| 08-09 | | Nil | | | | | |
| 10 | eP | 19 07 19 | | | | | |
| | eS | 10 22 | | | | | |
| 10 | iP | 20 10 38.8 | C | | | | |
| 10 | iP | 03 18 21.8 | D | | | | |
| 11 | iP | 13 16 07.4 | D | | | | |
| 11 | iP | 14 11 48.3 | D | | | | |
| 12 | iP | 06 05 57.6 | C | | | | |
| 13 | iP | 05 48 45.7 | C | | | | |
| 13 | eP | 07 41 40 | | | | | Meckering |
| | eS | 42 36 | | | | | |
| 14 | | Nil | | | | | |
| 15 | eP | 05 35 41 | | | | | |
| 15 | iP | 07 51 26.9 | C | | | | |
| 15 | iP | 22 16 02.3 | C | | | | |
| 16 | eP | 01 10 27 | | | | | |
| 16 | eP | 06 14 32 | | | | | |
| 16 | iP | 14 49 09.0. | D | | | | |
| 16 | iP | 20 15 47.4 | C | | | | |
| 17 | eP | 18 25 19 | | | | | |
| 17 | iP | 20 51 13.5 | C | | | | |
| 17 | iP | 21 14 53.0 | D | 0.2 | 60mu | 2.5 | Meekatharra ML = 2.1 |
| | iS | 15 00.0 | | | | | |
| 17 | eP | 21 19 36 | | | | | |
| 18 | iP | 07 22 10.7 | C | | | | |
| | eS | 25 22 | | | | | |
| 18 | eP | 21 11 53 | | | | | Meckering |
| | eS | 12 48 | | | | | |
| 19 | iP | 04 16 32.4 | C | | | | |
| 19 | iP | 11 03 52.1 | D | | | | |
| 20 | iP | 03 00 00.5 | D | | | | |
| 21 | iP | 18 18 24.9 | C | | | | |
| 22 | eP | 05 22 52 | | | | | |
| | eS | 25 44 | | | | | |
| 22 | eP | 11 31 03 | | | | | |
| 22 | iP | 14 53 59.5 | C | | | | |
| 23 | eP | 20 46 26 | | | | | |
| | eS | 49 27 | | | | | |
| 23 | iP | 23 58 47.1 | C | | | | |
| 24 | eP | 11 29 32 | | | | | |
| 24 | iP | 14 01 11.3 | C | | | | |
| | iX | 01 19.4 | | | | | |

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|---|---|---|---|---|---|---|
| **MEEKATHARRA (MEK)** Cont. | | | | | | |
| June. | | | | | | |
| 24 | eP | 23 24 46 | | | | |
| 25 | | Nil | | | | |
| 26 | iP | 02 26 08.6 | C | | | |
| 27 | iP | 10 54 59.1 | D | | | |
| 27 | iP | 14 31 17.5 | C | | | |
| 27 | iP | 17 57 37.0 | D | | | |
| 28 | iP | 21 09 53.1 | C | | | |
| 29 | iP | 00 19 33.9 | C | | | |
| 29 | iP | 20 13 43.7 | D | | | |
| 30 | iP | 11 44 25.4 | D | | | |
| 30 | iP | 19 28 52.0 | C | | | |
| **KUNUNURRA (KNA)** | | | | | | |
| June. | | | | | | |
| 01 | iP | 18 43 46.0 | C | | | |
| | iS | 45 15.0 | | | | |
| 01 | iP | 20 12 13.4 | D | | | |
| 02 | | Nil | | | | |
| 03 | iP | 01 54 13.7 | D | | | |
| 03 | iP | 07 05 40.8 | C | | | |
| 03 | eP | 09 33 57 | | | | |
| 04 | iP | 02 17 04.4 | D | | | |
| 04 | iP | 15 22 08.5 | D | | | |
| 04 | iP | 17 22 13.2 | C | | | |
| 04 | iP | 18 46 04.3 | D | | | |
| | iS | 47 34.0 | | | | |
| 05 | eP | 09 25 38 | | | | |
| 06 | iP | 02 25 45.3 | C | | | |
| | eS | 28 40 | | | | |
| 07 | iP | 03 23 22.4 | C | | | |
| 07 | eP | 07 43 59 | | | | |
| | eS | 46 25 | | | | |
| 08 | iP | 16 21 53.2 | D | | | |
| 09 | | Nil | | | | |
| 10 | iP | 07 31 55.0 | D | | | |
| 10 | iP | 16 17 25.7 | D | | | |
| 10 | iP | 16 19 18.7 | C | | | |
| 10 | iP | 20 09 17.9 | D | | | |
| 11 | iP | 01 52 32.6 | C | | | |
| 12-18 | | Station ceased recording | | | | |
| 19-21 | | Nil | | | | |
| 22 | iP | 14 52 17.9 | D | | | |
| 23 | iP | 20 44 20.6 | D | | | |
| | eS | 45 37 | | | | |
| 23 | iP | 23 59 41.2 | C | | | |
| 24 | iP | 00 56 39.4 | C | | | |
| 24 | iP | 11 27 05.5 | D | | | |
| 24 | iP | 13 59 45.4 | C | | | |
| 24 | iP | 16 41 13.8 | D | | | |
| 24 | iP | 23 22 15.6 | D | | | |
| 25 | iP | 14 40 18.8 | D | | | |
| 25 | iP | 21 08 25.1 | D | | | |
| | eS | 09 51 | | | | |
| 26 | iP | 19 33 48.0 | D | | | |
| 27 | iP | 02 41 31.0 | D | | | |
| 27 | iP | 14 30 34.2 | C | | | |
| 27 | iP | 17 55 26.9 | D | | | |

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|---|---|---|---|---|---|---|
| **KUNUNURRA (KNA)** | Cont. | | | | | |
| June. | | | | | | |
| 27 | iP | 20 55 00.5 | C | | | |
| 28 | iP | 05 11 35.9 | D | | | |
| 28 | iP | 15 13 22.9 | C | | | |
| | eS | 15 13 | | | | |
| 28 | iP | 21 07 48.7 | C | | | |
| 29 | iP | 00 17 24.0 | C | | | |
| 29 | iP | 03 56 18.4 | D | | | |
| 29 | iP | 15 25 26.6 | C | | | |
| | eS | 27 06 | | | | |
| 29 | iP | 20 12 15.6 | D | | | |
| 30 | iP | 08 15 17.3 | C | | | |
| | eS | 18 10 | | | | |
| **KARRATHA (KAA)** | | | | | | |
| June. | | | | | | |
| 01-02 | | Nil | | | | |
| 03 | eP | 02 19 44 | | | | |
| 04 | iP | 17 24 02.0 | C | | | |
| 05 | iP | 09 26 40.0 | C | | | |
| 05 | ePKP | 14 40 37 | | | | |
| 06 | iP | 04 15 02.0 | C | | | |
| 06 | iP | 16 44 21.0 | C | | | |
| | iS | 46 27.8 | | | | |
| 07-08 | | Nil | | | | |
| 09 | eP | 03 58 38 | | | | |
| 10 | iP | 07 07 07.8 | D | | | |
| | iX | 07 37.5 | D | | | |
| 10 | iP | 16 19 13.0 | D | | | |
| 10 | eP | 19 05 58 | | | | |
| 10 | iP | 20 10 07.8 | C | | | |
| 11 | iP | 01 52 46.0 | C | | | |
| 11 | iP | 13 16 09.8 | D | | | |
| 11 | iP | 14 11 34.9 | D | | | |
| 12 | | Nil | | | | |
| 13 | eP | 04 16 00 | | | | |
| 13 | eP | 05 48 09 | | | | |
| 14-28 | | Time corrections uncertain. | | | | |
| 29 | iP | 20 13 50.6 | D | | | |
| 30 | | Nil | | | | |

P.J. Gregson.
Observer-in-Charge.

International Seismological Centre

International Seismological Centre

COMMONWEALTH OF AUSTRALIA

Department of National Development

Bureau of Mineral Resources, Geology and Geophysics

# MUNDARING GEOPHYSICAL OBSERVATORY

## JULY 1971

MUNDARING (MUN)

Latitude: 31°58.7'S Longitude: 116°12.5'E

Height: 253 Metres

Foundation: Precambrian granite

KALGOORLIE (KLG)

Latitude: 30°47' 01.2"S Longitude: 121°27' 28.9"E

Height: 350 Metres

Foundation Alluvium-covered Precambrian basic metasediments

MEEKATHARRA (MEK)

Latitude: 26°36'46"S Longitude: 118°32'42"E

Height: 515 Metres

Foundation: Archean Sedimentary rock

KARRATHA (KAA)

Latitude: 20°46.6'S Longitude: 116°51.5'E

Height: 15 Metres

Foundation: Precambrian volcanics

KUNUNURRA (KNA)

Latitude: 15~~50~~°45.0'S Longitude: 128°46.0'E

Height: 55 Metres

Foundation: Unweathered upper Devonian sandstone.

All correspondence relating to these seismographs should be addressed to:-

Observer-in-Charge,
Geophysical Observatory,
MUNDARING. 6073

# INSTRUMENTATION

## MUNDARING

World wide standard seismograph system No. 44

| | | |
|---|---|---|
| Nominal magnification | S,P-Z, N, E | 25000 at 1 second |
| | LP-Z | 750 at 15 seconds |
| | LP-N, E | 375 at 15 seconds |

| | Component | Seismometer | Galvanometer | Magnification |
|---|---|---|---|---|
| KALGOORLIE | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 15,800 at 1 second |
| | SP-SW | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.25 | 16,500 at 1 second |
| | SP-NW | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.25 | 16,500 at 1 second |
| MEEKATHARRA | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 9,000 at 1 second |
| KARRATHA | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 31,000 at 1 second |
| KUNUNURRA | SP- Z | Willmore Mk1 To = 1.0 | Willmore Tg = 0.25 | 20,000 at 1 second |

Timemarks for all stations other than Mundaring are normally supplied from an EMI crystal clock controlled by VNG or ABC radio pips.

Magnification curves are available on request.

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|---|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** | | | | | | | | |
| July. | | | | | | | | |
| 01 | iP | 01 20 02.1 | C | | 1.0 | 180mu | 2.3 | |
| 02 | eP | 05 42 37 | | | | | | |
| 03 | eP | 08 15 11 | | | | | | |
| | eS | 19 31 | | | | | | |
| 03 | iP | 12 21 23.8 | D | | 1.0 | 400mu | 2.6 | |
| 04 | eP | 00 11 50 | | | | | | |
| 04 | eP | 08 30 27 | | | | | | |
| 04 | iP | 09 38 38.8 | C | | | | | |
| 04 | iP | 11 39 25.2 | C | | | | | |
| 04 | iP | 15 28 14.7 | C | | 0.4 | 66mu | 2.2 | Mawson ML = 2.3 |
| | iS | 28 24.0 | | | | | | |
| 05 | | Nil | | | | | | |
| 06 | eP | 03 45 24 | | | | | | |
| 06 | eP | 09 31 49 | | | | | | |
| 07 | | Nil | | | | | | |
| 08 | eP | 04 55 12 | | | | | | |
| 08 | iP | 19 12 49.0 | C | | 1.0 | 400mu | 2.6 | |
| | eS | 17 24 | | | | | | |
| 09 | iP | 03 21 53.8 | D | LZ | 20.0 | 140 u | | |
| | | | | LN | 20.0 | 94 u | | |
| | | | | LE | 20.0 | 72 u | | |
| 09 | iP | 08 48 28.5 | D | | | | | |
| 09 | iP | 09 57 46.3 | C | | 1.0 | 140mu | 2.1 | |
| 09 | iP | 12 36 34.6 | D | | | | | |
| 10 | iP | 05 31 55.4 | C | LZ | 20.0 | 12 u | | |
| | | | | LN | 20.0 | 6 u | | |
| | | | | LE | 20.0 | 10 u | | |
| 10 | eP | 12 03 33 | | | | | | |
| 10 | iP | 15 51 05.8 | D | | | | | |
| 10 | iP | 17 52 09.4 | C | | | | | |
| 11 | iP | 06 14 24.8 | D | | | | | |
| | iS | 14 34.2 | | | | | | Meckering ML = 2.2 |
| 12 | iP | 13 09 32.4 | C | | | | | |
| 12 | iP | 23 01 26.5 | C | | | | | |
| 13 | | Nil | | | | | | |
| 14 | iP | 00 09 35.9 | D | | 0.8 | 75mu | 1.9 | |
| 14 | iP | 03 04 26.0 | C | | 0.7 | 108mu | 2.2 | |
| 14 | iP | 06 19 32.4 | C | | 1.3 | 680mu | 2.7 | |
| 14 | iP | 07 45 21.8 | C | | 1.3 | 340mu | 2.4 | |
| | iX | 49 12.0 | C | | | | | |
| 14 | iP | 15 12 01.4 | C | | | | | |
| 14 | eP | 16 46 02 | | | | | | |
| 14 | iP | 17 46 52.9 | C | | 1.2 | 120mu | 2.0 | |
| 14 | eP | 18 35 06 | | | | | | |
| | eX | 38 32 | | | | | | |
| 14 | eP | 19 41 31 | | | | | | |
| 14 | eP | 23 07 08 | | | | | | |
| 15 | iP | 18 24 18.4 | C | | | | | |
| 16 | iP | 08 03 09.3 | C | | | | | Lake McKay |
| | iS | 05 29.2 | | | | | | |
| 16 | iP | 12 32 42.1 | D | | 0.3 | 670mu | 3.2 | Meckering ML = 4.0 |
| | iS | 32 53.0 | | | | | | |
| 17 | iP | 05 40 37.8 | C | | 0.5 | 39mu | 1.9 | |
| 17 | iP | 15 11 12.0 | D | | 0.8 | 30mu | 1.6 | |
| 17 | iP | 16 24 55.8 | C | | | | | |
| 18 | iP | 14 39 21.0 | D | LZ | 20.0 | 31 u | | |
| | | | | LN | 20.0 | 20 u | | |
| | | | | LE | 20.0 | 51 u | | |

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|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** | | Cont. | | | | | |
| July. | | | | | | | |
| 19 | iP | 00 22 47.2 | C | | 0.9 | 1200mu | 3.1 |
| 19 | iP | 02 09 53.5 | D | | 1.0 | 180mu | 2.3 |
| 19 | iP | 06 03 34.8 | C | | | | |
| 19 | iP | 08 31 08.7 | C | | | | |
| 19 | eP | 14 55 53.5 | C | | 1.0 | 140mu | 2.1 |
| 20 | iP | 15 45 31 | | | | | |
| 20 | eP | 06 54 29.4 | D | | 1.0 | 80mu | 1.9 |
| 20 | iP | 17 44 01 | | | | | |
| 20 | iP | 18 07 30.5 | C | | | | |
| 21 | iP | 21 33 58.4 | D | | 1.0 | 120mu | 2.1 |
| 21 | eP | 03 19 39.8 | D | | | | |
| 21 | iP | 09 26 56 | | | | | |
| | eX | 12 11 32.2 | D | | 0.8 | 75mu | 1.9 |
| | | 13 14 | | LZ | 20.0 | 13 u | |
| | | | | LN | 20.0 | 6 u | |
| | | | | LE | 20.0 | 9 u | |
| 21 | eP | 15 24 28 | | | | | |
| 21 | iP | 19 04 07.0 | C | | | | |
| 22 | iP | 10 33 24.0 | D | | | | |
| 22 | eP | 21 15 15 | | | | | |
| 22 | eP | 21 46 02 | | | | | |
| 22 | eP | 23 18 06 | | | | | |
| 23 | eP | 00 03 26 | | | | | |
| 23 | eP | 03 20 02 | | | | | |
| 23 | eP | 06 12 31 | | | | | |
| 23 | iP | 06 54 58.5 | D | | | | |
| 24 | eP | 12 59 51 | | | | | |
| 25 | iP | 12 59 52.2 | C | LZ | 20.0 | 17 u | |
| | | | | LN | 20.0 | 17 u | |
| | | | | LE | 20.0 | 12 u | |
| 25 | iP | 14 20 08.6 | D | | | | |
| | eS | 25 41 | | | | | |
| 25 | iP | 16 15 53.2 | C | | | | |
| 25 | eP | 16 52 34 | | | | | |
| 25 | iP | 21 34 42.2 | D | | | | |
| 25 | iP | 22 32 30.5 | D | | | | |
| 26 | iP | 01 31 24.3 | C | | | | |
| 26 | eP | 03 24 19 | | | | | |
| 26 | eP | 03 49 06 | | | | | |
| 26 | eP | 04 25 54 | | | | | |
| 26 | eP | 06 16 46 | | | | | |
| | eS | 23 00 | | | | | |
| 26 | iP | 07 00 54.1 | D | | | | |
| 26 | eP | 07 54 53 | | | | | |
| 26 | eP | 09 16 26 | | | | | |
| 26 | eP | 09 27 26 | | | | | |
| 26 | iP | 09 42 41.8 | D | | | | |
| 26 | eP | 10 57 51 | | | | | |
| 26 | eP | 11 04 44 | | | | | |
| 26 | eP | 14 57 55 | | | | | |
| 26 | iP | 15 43 28.5 | C | | | | |
| 26 | eP | 16 52 48 | | | | | |
| 26 | eP | 17 14 41 | | | | | |
| 26 | iP | 17 58 00.0 | D | | | | |
| 26 | eP | 19 08 03 | | | | | |
| 26 | iP | 19 23 19.1 | C | | | | |
| 27 | iP | 00 30 21.8 | C | | | | |
| 27 | iP | 01 07 02.5 | D | | | | |

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| Date 1971 | Phase | G.M.T. | Dir. | | Per. (sec.) | Amp. | LogA/T | |
|---|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** Cont. | | | | | | | | |
| July. | | | | | | | | |
| 27 | eP | 02 11 24 | | | | | | |
| 27 | iP | 02 22 05.2 | C | | 0.8 | 230mu | 2.5 | |
| 27 | iP | 04 11 56.1 | C | | | | | |
| 27 | iP | 05 41 47.9 | C | | | | | |
| 27 | iP | 06 39 36.8 | C | LZ | 20.0 | 31 u | | |
| | | | | LN | 20.0 | 11 u | | |
| | | | | LE | 20.0 | 23 u | | |
| 27 | iP | 07 43 30.2 | C | | | | | |
| 27 | eP | 13 26 33 | | | | | | |
| 27 | iP | 13 39 48.0 | C | | | | | |
| 27 | iP | 15 04 42.0 | C | | | | | |
| 27 | iP | 18 16 30.0 | C | | | | | |
| 27 | eP | 20 55 57 | | LZ | 20.0 | 43 u | | |
| | | | | LN | 20.0 | 54 u | | |
| | | | | LE | 20.0 | 23 u | | |
| 27 | iP | 23 43 05.5 | C | | | | | |
| 28 | iP | 01 18 26.1 | C | | | | | |
| 28 | iP | 02 55 21.6 | D | | | | | |
| 28 | eP | 04 12 23 | | | | | | |
| 28 | eP | 04 24 23 | | | | | | |
| 28 | eP | 05 42 41 | | | | | | |
| 28 | iP | 05 52 46.8 | D | | | | | |
| 28 | iP | 07 56 50.1 | C | | | | | |
| 28 | eP | 10 04 59 | | | | | | |
| 28 | eP | 10 25 26 | | | | | | |
| 28 | iP | 14 10 40.2 | C | | | | | |
| 28 | eP | 23 32 26 | | | | | | |
| 29 | iP | 07 04 24.2 | D | | | | | |
| 29 | eP | 09 05 50 | | | | | | |
| 29 | eP | 14 09 20 | | | | | | |
| 29 | eP | 14 53 24 | | | | | | |
| 30 | iP | 04 04 52.6 | C | | | | | |
| 30 | iP | 06 26 15.4 | C | | | | | |
| 30 | eP | 13 31 47 | | | | | | |
| 30 | iP | 18 38 09.2 | C | | | | | |
| 31 | iP | 14 57 17.8 | D | | 0.3 | 50mu | 2.2 | ML = 3.0 Meckering |
| | iS | 57 30.5 | | | | | | |
| **KALGOORLIE (KLG)** | | | | | | | | |
| July. | | | | | | | | |
| 01 | iP | 01 21 35.1 | C | | 1.0 | 280mu | 2.4 | |
| 02 | eP | 05 42 24 | | | | | | |
| 03 | iP | 08 15 13.3 | C | | 1.0 | 310mu | 2.5 | |
| | iS | 19 33.0 | D | | | | | |
| 03 | iP | 12 20 52.7 | D | | 1.0 | 497mu | 2.7 | |
| 03 | eP | 20 17 07 | | | | | | |
| 04 | eP | 00 10 31 | | | | | | |
| 04 | eP | 08 30 16 | | | | | | |
| 04 | iP | 11 39 12.1 | D | | | | | |
| 04 | eP | 15 29 10 | | | | | | |
| 05 | eP | 01 29 39 | | | | | | |
| 05 | iP | 01 29 58.7 | C | | | | | |
| 06-07 | | Nil | | | | | | |
| 08 | iP | 19 12 21.5 | C | | 1.0 | 1300mu | 3.1 | |
| | eS | 16 50 | | | | | | |
| 08 | iP | 23 44 26.1 | C | | | | | |

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|---|---|---|---|---|---|---|---|
| KALGOORLIE (KLG) | | Cont. | | | | | |
| July. | | | | | | | |
| 09 | eP | 09 57 09.7 | D | | | | |
| 10 | iP | 05 31 18.7 | C | | | | |
| 10 | iP | 10 40 02.2 | D | | | | |
| 10 | iP | 12 02 59.1 | D | | | | |
| 10 | eP | 15 50 35 | | | | | |
| 10 | iP | 17 15 32.9 | D | 0.8 | 49mu | 1.8 | |
| 11 | eP | 06 15 21 | | | | | Meckering |
| 12 | iP | 13 08 55.2 | D | | | | |
| 12 | iP | 15 53 41.9 | C | | | | |
| 12 | eP | 23 03 05 | | | | | |
| 13 | iP | 00 25 29.0 | C | | | | |
| 13 | eP | 10 01 21 | | | | | |
| 14 | iP | 03 04 04.8 | C | | | | |
| 14 | iP | 06 18 55.6 | D | | | | |
| 14 | iP | 07 44 46.1 | D | | | | |
| 14 | iP | 08 17 59.9 | D | | | | |
| 14 | iP | 08 49 58.2 | D | | | | |
| 14 | eP | 09 11 39 | | | | | |
| 14 | iP | 10 16 36.9 | C | | | | |
| 14 | iP | 11 57 46.6 | D | | | | |
| 14 | iP | 12 47 35.8 | D | | | | |
| 14 | eP | 13 15 36 | | | | | |
| 14 | eP | 14 59 19 | | | | | |
| 14 | iP | 15 11 25.0 | D | | | | |
| 14 | iP | 16 45 26.0 | C | | | | |
| 14 | iP | 17 46 14.6 | D | 1.0 | 155mu | 2.2 | |
| | iX | 47 46.8 | | | | | |
| 14 | iP | 18 34 30.2 | D | | | | |
| 14 | iP | 19 40 54.9 | C | 1.0 | 93mu | 2.0 | |
| 14 | iP | 20 09 10.9 | C | | | | |
| 14 | eP | 20 32 17 | | | | | |
| 14 | iP | 23 06 47.7 | C | | | | |
| 15 | iP | 01 24 23.0 | D | | | | |
| 15 | iP | 02 36 35.7 | D | | | | |
| 15 | iP | 02 48 28.7 | C | | | | |
| 15 | iP | 07 48 32.3 | C | | | | |
| 15 | eP | 14 04 20 | | | | | |
| 15 | iP | 17 06 05.0 | C | | | | |
| 15 | iP | 17 19 01.1 | D | | | | |
| 15 | iP | 18 23 47.4 | C | 0.8 | 170mu | 2.3 | |
| 15 | eP | 23 08 07 | | | | | |
| 16 | iP | 07 55 00.7 | D | | | | |
| 16 | iP | 08 02 20.9 | D | | | | |
| | eS | 04 05 | | | | | Lake McKay |
| 16 | iP | 12 33 23.9 | C | 0.5 | 42mu | 1.9 | Meckering |
| | eS | 34 07 | | | | | |
| 16 | iP | 13 26 55.3 | C | | | | |
| 16 | eP | 14 13 02 | | | | | |
| 17 | iP | 05 40 50.4 | C | | | | |
| 17 | eP | 06 45 46 | | | | | |
| 17 | eP | 06 58 17 | | | | | |
| 17 | iP | 11 32 16.0 | C | | | | |
| 17 | iP | 15 11 18.5 | C | 1.0 | 93mu | 2.0 | |
| 17 | eP | 16 24 34.0 | C | | | | |
| 17 | iP | 16 45 34.6 | C | | | | |
| 18 | eP | 09 34 31 | | | | | |

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|---|---|---|---|---|---|---|
| KALGOORLIE (KLG) | | Cont. | | | | |
| July. | | | | | | |
| 18 | iP | 12 19 09.1 | C | | | |
| 18 | eP | 14 34 52 | | | | |
| 18 | iP | 14 38 44.3 | D | | | |
| 19 | iP | 02 09 17.3 | D | 1.0 | 186mu | 2.3 |
| 19 | eP | 06 02 58 | | | | |
| 19 | iP | 08 30 31.4 | D | | | |
| 19 | iP | 14 55 17.6 | C | 1.0 | 310mu | 2.5 |
| 19 | eP | 15 44 54 | | | | |
| 20 | iP | 06 53 51.6 | C | | | |
| 20 | iP | 17 58 21.5 | D | | | |
| 20 | iP | 21 33 21.5 | D | | | |
| 21 | iP | 03 19 23.0 | D | | | |
| 21 | iP | 12 10 55.4 | D | | | |
| 21 | iP | 19 03 31.3 | D | | | |
| 22 | iP | 10 32 47.1 | D | | | |
| 23 | eP | 06 13 33 | | | | |
| 23 | iP | 06 54 28.2 | D | | | |
| 24 | | Nil | | | | |
| 25 | eP | 12 59 38 | | | | |
| 25 | iP | 14 19 43.1 | D | 1.0 | 590mu | 3.2 |
| 25 | eP | 15 54 38 | | | | |
| 25 | iP | 16 15 23.0 | D | | | |
| 25 | eP | 16 51 58 | | | | |
| 25 | eP | 22 31 52 | | | | |
| 26 | eP | 01 30 48 | | | | |
| | eS | 36 55 | | | | |
| 26 | eP | 02 56 18 | | | | |
| 26 | eP | 03 01 09 | | | | |
| 26 | iP | 03 16 15.0 | D | | | |
| 26 | eP | 03 24 28 | | | | |
| 26 | eP | 03 34 42 | | | | |
| 26 | eP | 03 48 28 | | | | |
| 26 | eP | 04 25 17 | | | | |
| 26 | eP | 04 26 37 | | | | |
| 26 | iP | 04 39 36.1 | C | | | |
| 26 | eP | 04 43 24 | | | | |
| 26 | eP | 04 52 44 | | | | |
| 26 | iP | 06 16 09.2 | D | | | |
| 26 | iP | 06 37 29.3 | D | | | |
| 26 | iP | 07 00 17.7 | C | | | |
| | eS | 06 50 | | | | |
| 26 | iP | 07 53 55.1 | D | | | |
| 26 | iP | 08 06 28.5 | D | | | |
| 26 | iP | 09 14 30.1 | D | | | |
| 26 | eP | 09 26 48 | | | | |
| 26 | eP | 09 42 05 | | | | |
| 26 | iP | 09 44 25.5 | C | | | |
| 26 | eP | 10 56 15 | | | | |
| 26 | iP | 11 04 07.7 | D | | | |
| 26 | iP | 12 12 14.2 | C | | | |
| 26 | iP | 13 03 55.9 | D | | | |
| 26 | iP | 13 37 57.2 | D | | | |
| 26 | iP | 15 42 50.5 | C | | | |
| 26 | eP | 16 52 11 | | | | |
| 26 | eP | 17 14 04 | | | | |
| 26 | eP | 17 23 03 | | | | |
| 26 | iP | 17 57 25.3 | D | | | |
| 26 | iP | 18 08 06.6 | C | | | |

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|---|---|---|---|---|---|---|---|
| KALGOORLIE (KLG) Cont. | | | | | | | |
| July. | | | | | | | |
| 26 | iP | 19 07 25.8 | C | | | | |
| 26 | iP | 19 22 42.6 | C | | | | |
| 26 | iP | 20 26 53 | | | | | |
| 26 | eP | 23 40 51 | | | | | |
| 27 | iP | 00 29 45.9 | D | | | | |
| 27 | iP | 01 06 31.4 | D | | | | |
| 27 | iP | 02 10 45.7 | D | | | | |
| 27 | iPKP | 02 22 01.5 | D | | | | |
| 27 | iP | 04 11 19.1 | C | | | | |
| 27 | eP | 05 41 09 | | | | | |
| 27 | iP | 06 38 59.5 | D | | | | |
| 27 | eP | 07 42 52 | | | | | |
| 27 | iP | 07 56 27.4 | C | | | | |
| 27 | iP | 09 19 08.0 | D | | | | |
| 27 | eP | 12 50 08 | | | | | |
| 27 | eP | 13 25 56 | | | | | |
| 27 | iP | 13 39 12.0 | C | | | | |
| 27 | iP | 14 09 48.1 | D | | | | |
| 27 | eP | 15 04 04 | | | | | |
| 27 | iP | 18 15 43.2 | C | | | | |
| 27 | eP | 20 55 19 | | | | | |
| 27 | eP | 23 42 28 | | | | | |
| 28 | eP | 00 03 09 | | | | | |
| 28 | eP | 01 17 49 | | | | | |
| 28 | eP | 02 54 45 | | | | | |
| 28 | iP | 05 52 16.0 | D | | | | |
| 28 | iP | 09 57 30.5 | C | | | | |
| 28 | iP | 10 04 21.7 | C | | | | |
| 28 | eP | 10 [illegible] 49 | | | | | |
| 28 | iP | 14 10 03.2 | C | | | | |
| 28 | iP | 15 42 00.3 | C | | | | |
| 28 | iP | 23 31 49.5 | D | | | | |
| 29 | eP | 10 26 02 | | | | | |
| 29 | iP | 14 08 43.0 | D | | | | |
| 29 | iP | 14 52 47.9 | D | | | | |
| 29 | iP | 16 27 46.0 | D | | | | |
| 30 | iP | 04 04 32.5 | D | | | | |
| 30 | eP | 04 15 31 | | | | | |
| 30 | iP | 06 [illegible] 39.1 | D | | | | |
| 30 | eP | 13 31 10 | | | | | |
| 30 | iP | 18 22 32.9 | D | | | | |
| 30 | eP | 19 14 51 | | | | | |
| 30 | eP | 20 54 19 | | | | | |
| 31 | eP | 09 07 05 | | | | | |
| 31 | eP | 14 58 08 | | 0.3 | 35mu | 2.1 | Meckering |
| 31 | eP | 15 25 21 | | | | | |
| 31 | iP | 20 10 13.4 | C | | | | |
| 31 | eP | 23 23 08 | | | | | |

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|---|---|---|---|---|---|---|---|
| **MEEKATHARRA (MEK)** | | | | | | | |
| July. | | | | | | | |
| 01 | iP | 01 21 11.1 | C | | | | |
| 01 | iP | 20 58 12.5 | C | | | | |
| 02 | iP | 05 41 51.4 | D | | | | |
| 02 | iP | 15 44 55.9 | D | | | | |
| 03 | iP | 08 14 22.1 | C | 0.6 | 540mu | 2.9 | |
| | eS | 17 39 | | | | | |
| 03 | iP | 12 21 15.1 | D | | | | |
| 03 | eP | 14 11 59 | | | | | |
| 04 | iP | 08 29 34.8 | D | | | | |
| 04 | iP | 11 38 41.1 | D | | | | |
| 04 | eP | 15 29 21 | | | | | |
| 05 | | Nil | | | | | Mawson |
| 06 | eP | 03 41 58 | | | | | |
| | eS | 43 30 | | | | | Lake McKay |
| 07 | | Nil | | | | | |
| 08 | | No record | | | | | |
| 09 | eP | 03 22 03 | | | | | |
| 09 | eP | 06 09 58 | | | | | |
| | | | | | | | Mt. Newman blast. |
| 09 | iP | 09 57 12.2 | C | | | | |
| 09 | iP | 12 36 24.4 | D | | | | |
| 10 | iP | 05 31 21.6 | C | | | | |
| 10 | eP | 12 02 51 | | | | | |
| 10 | iP | 15 50 54.3 | C | | | | |
| 10 | iP | 17 51 29.4 | C | | | | |
| 11 | eP | 00 19 48 | | | | | |
| | eS | 20 28 | | | | | Mt. Newman blast. |
| 12 | iP | 13 08 53.7 | D | | | | |
| 12 | iP | 15 53 40.9 | C | | | | |
| 12 | iP | 23 00 35.6 | C | | | | |
| | iS | 01 16.5 | | | | | 200km E of Carnarvon mb = 3.5 |
| 13 | iP | 00 40 27.8 | C | | | | |
| 13 | iP | 10 01 56.6 | D | | | | |
| 14 | iP | 00 08 48.5 | D | | | | |
| 14 | iP | 03 03 36.2 | C | | | | |
| 14 | eP | 06 18 57 | | | | | |
| 14 | iP | 07 44 47.7 | C | | | | |
| 14 | iP | 03 50 00.0 | C | | | | |
| 14 | eP | 09 11 41 | | | | | |
| 14 | iP | 09 39 55.0 | C | | | | |
| 14 | iP | 10 16 38.8 | C | | | | |
| 14 | iP | 10 54 23.2 | D | | | | |
| 14 | eP | 11 51 01 | | | | | |
| 14 | iP | 11 57 49.3 | C | | | | |
| 14 | iP | 12 35 00.0 | D | | | | |
| 14 | eP | 12 47 37 | | | | | |
| 14 | iP | 12 53 05.5 | D | | | | |
| 14 | eP | 13 15 38 | | | | | |
| 14 | eP | 14 45 05 | | | | | |
| 14 | iP | 14 59 20.8 | C | | | | |
| 14 | iP | 15 11 27.0 | C | | | | |
| 14 | eP | 15 43 55 | | | | | |
| 14 | iP | 16 45 27.4 | C | | | | |
| 14 | iP | 17 46 16.3 | C | | | | |
| 14 | iP | 18 34 31.4 | C | | | | |
| 14 | iP | 19 40 57.0 | C | 0.7 | 79mu | 2.0 | |

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|---|---|---|---|---|---|---|---|
| **MEEKATHARRA (MEK)** | | Cont. | | | | | |
| July. | | | | | | | |
| 14 | iP | 20 09 13.0 | D | | | | |
| 14 | iP | 20 32 21.0 | D | | | | |
| 14 | eP | 23 06 19 | | | | | |
| 15 | eP | 02 36 37 | | | | | |
| 15 | iP | 02 48 31.0 | C | | | | |
| 15 | iP | 07 48 30.6 | C | | | | |
| 15 | iP | 14 04 21.3 | C | | | | |
| 15 | iP | 17 06 05.4 | D | | | | |
| 15 | iP | 17 19 02.0 | D | | | | |
| 15 | iP | 18 24 10.7 | C | | | | |
| 15 | eP | 21 25 46 | | | | | |
| 15 | iP | 23 08 08.1 | D | | | | |
| 16 | iP | 07 55 03.1 | C | | | | |
| 16 | iP | 08 02 04.8 | D | | | | |
| | eS | 03 48 | | | | | Lake McKay mb = 5.7 |
| 16 | iP | 12 33 32.2 | D | 0.3 | 10mu | 1.5 | Meckering |
| | eS | 34 39 | | | | | |
| 16 | eP | 13 26 59 | | | | | |
| 16 | iP | 14 13 03.7 | D | | | | |
| 16 | iP | 21 51 52.0 | D | | | | |
| 16 | iP | 22 00 00.4 | D | | | | |
| 17 | eP | 02 51 58 | | | | | |
| 17 | iP | 03 20 25.6 | D | | | | |
| 18 | iP | 06 20 05.7 | C | | | | |
| 18 | iP | 09 34 31.8 | D | | | | |
| 18 | eP | 14 34 53 | | | | | |
| 18 | iP | 14 38 45.2 | D | | | | |
| 18 | eP | 19 46 08 | | | | | |
| 18 | iP | 22 12 12.0 | D | | | | |
| 19 | eP | 00 22 12 | | | | | |
| 19 | iP | 01 07 37.5 | D | | | | |
| 19 | iP | 02 09 19.0 | D | | | | |
| 19 | iP | 06 02 58.6 | C | | | | |
| 19 | iP | 08 30 33.5 | D | | | | |
| 19 | iP | 10 03 51.2 | D | | | | |
| 19 | iP | 11 57 58.4 | C | | | | |
| 19 | iP | 14 55 11.0 | C | 1.0 | 140mu | 2.2 | |
| 19 | eP | 15 44 54 | | | | | |
| 19 | iP | 21 46 31.5 | D | | | | |
| 20 | eP | 06 53 54 | | | | | |
| 20 | eP | 16 42 56 | | | | | |
| 20 | eP | 17 43 43 | | | | | |
| 20 | iP | 21 33 23.6 | D | | | | |
| 21 | eP | 12 10 57 | | | | | |
| 22 | eP | 07 29 03 | | | | | |
| 22 | eP | 21 25 01 | | | | | |
| | eS | 28 45 | | | | | |
| 22 | eP | 23 17 31 | | | | | |
| 23 | eP | 00 02 51 | | | | | |
| 23 | iP | 06 54 47.8 | D | | | | |
| 23 | iP | 18 05 29.0 | C | | | | |
| 24 | eP | 12 59 18 | | | | | |
| 25 | eP | 12 59 07 | | | | | |
| 25 | iP | 14 19 17.0 | D | 0.8 | 2450mu | 3.5 | |
| 25 | eP | 15 54 27 | | | | | |
| 25 | iP | 16 15 41.6 | C | | | | |
| 25 | eP | 16 51 59 | | | | | |

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|---|---|---|---|---|---|---|
| MEEKATHARRA (MEK) Cont. | | | | | | |
| July. | | | | | | |
| 25 | iP | 17 15 31.5 | C | | | |
| 25 | iP | 22 31 54.8 | D | | | |
| 25 | eP | 22 58 33 | | | | |
| 26 | eP | 01 30 49 | | | | |
| 26 | iP | 03 24 28.9 | D | | | |
| 26 | iP | 03 33 42.4 | C | | | |
| 26 | iP | 03 48 29.1 | C | | | |
| 26 | eP | 03 59 24 | | | | |
| 26 | eP | 04 25 18 | | | | |
| 26 | iP | 04 26 38.1 | D | | | |
| 26 | iP | 04 39 37.1 | C | | | |
| 26 | iP | 04 43 24.2 | D | | | |
| 26 | eP | 05 05 59 | | | | |
| 26 | eP | 05 26 04 | | | | |
| 26 | eP | 05 45 04 | | | | |
| 26 | eP | 06 08 58 | | | | |
| 26 | eP | 06 15 29 | | | | |
| 26 | iP | 07 00 17.7 | C | | | |
| | eS | 06 46 | | | | |
| 26 | iP | 07 05 07.8 | D | | | |
| 26 | eP | 07 21 12 | | | | |
| 26 | iP | 07 45 25.2 | C | | | |
| 26 | iP | 07 47 48.6 | C | | | |
| 26 | eP | 07 54 40 | | | | |
| 26 | iP | 08 06 04.1 | D | | | |
| 26 | eP | 09 14 31 | | | | |
| 26 | eP | 09 26 47 | | | | |
| 26 | iP | 09 42 06.0 | D | | | |
| 26 | eP | 10 17 56 | | | | |
| 26 | eP | 10 56 14 | | | | |
| 26 | eP | 11 04 08 | | | | |
| 26 | eP | 11 31 33 | | | | |
| 26 | iP | 11 39 53.8 | D | | | |
| 26 | iP | 12 12 14.8 | C | | | |
| 26 | iP | 12 47 48.0 | D | | | |
| 26 | iP | 13 03 56.5 | D | | | |
| 26 | eP | 13 31 48 | | | | |
| 26 | eP | 13 37 57 | | | | |
| 26 | eP | 14 26 35 | | | | |
| 26 | eP | 14 39 04 | | | | |
| 26 | eP | 14 57 12 | | | | |
| 26 | iP | 15 16 43.0 | D | | | |
| 26 | eP | 15 37 58 | | | | |
| 26 | iP | 15 42 50.9 | D | 0.6 | 288mu | 2.7 |
| | eS | 48 48 | | | | |
| 26 | iP | 16 52 11.5 | C | | | |
| 26 | iP | 17 00 36.1 | C | | | |
| 26 | eP | 17 10 42 | | | | |
| 26 | eP | 17 14 06 | | | | |
| 26 | iP | 17 20 42.1 | D | | | |
| 26 | iP | 17 22 04.0 | D | | | |
| 26 | eP | 17 53 16 | | | | |
| 26 | iP | 17 57 26.0 | D | | | |
| 26 | iP | 18 08 08.9 | C | | | |
| 26 | iP | 19 07 26.1 | C | | | |
| 26 | iP | 19 22 42.8 | C | | | |
| 26 | eP | 20 26 54 | | | | |

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| MEEKATHARRA (MEK) Cont. | | | | | | |
| July. | | | | | | |
| 26 | eP | 20 56 30 | | | | |
| 26 | eP | 21 34 54 | | | | |
| 26 | eP | 22 20 19 | | | | |
| 26 | eP | 22 57 25 | | | | |
| 26 | eP | 23 16 23 | | | | |
| 26 | eP | 23 40 53 | | | | |
| 27 | eP | 00 14 25 | | | | |
| 27 | iP | 01 06 15.0 | D | | | |
| 27 | iP | 02 10 48.0 | C | | | |
| 27 | iP | 02 22 15.6 | C | | | |
| 27 | iP | 04 11 19.4 | C | | | |
| 27 | iP | 05 41 09.9 | C | | | |
| 27 | iP | 06 39 00.6 | D | | | |
| 27 | iP | 06 52 45.4 | D | | | |
| 27 | eP | 07 42 52 | | | | |
| 27 | iP | 07 56 28.3 | C | | | |
| 27 | iP | 08 03 00.4 | D | | | |
| 27 | eP | 08 50 13 | | | | |
| 27 | iP | 09 08 17.8 | D | | | |
| 27 | iP | 09 15 19.6 | D | | | |
| 27 | iP | 09 19 09.4 | D | | | |
| 27 | iP | 09 25 57.5 | C | | | |
| 27 | iP | 10 17 17.2 | D | | | |
| 27 | eP | 10 47 05 | | | | |
| 27 | eP | 10 50 32 | | | | |
| 27 | iP | 11 28 30.6 | D | | | |
| 27 | eP | 11 37 42 | | | | |
| 27 | iP | 11 46 04.9 | D | | | |
| 27 | iP | 12 50 08.9 | D | | | |
| 27 | iP | 13 05 42.0 | D | | | |
| 27 | eP | 13 25 58 | | | | |
| 27 | iP | 13 39 12.1 | D | | | * See last page for 27th. |
| 27 | iP | 21 08 59.5 | C | | | |
| 27 | iP | 21 11 00.0 | C | | | |
| 27 | iP | 21 23 00.2 | C | | | |
| 27 | iP | 21 40 03.1 | D | | | |
| 27 | eP | 22 26 39 | | | | |
| 27 | iP | 22 54 20.1 | C | | | |
| 27 | iP | 23 35 01.6 | D | | | |
| 27 | iP | 23 38 24.5 | C | | | |
| 27 | iP | 23 42 29.2 | C | | | |
| 27 | iP | 23 49 31.8 | D | | | |
| 28 | iP | 00 02 44.7 | C | | | |
| 28 | eP | 00 23 06 | | | | |
| 28 | iP | 01 17 48.0 | D | | | |
| 28 | iP | 01 38 06.4 | C | | | |
| 28 | iP | 02 10 01.5 | D | | | |
| 28 | iP | 02 20 49.1 | D | | | |
| 28 | iP | 02 54 46.0 | C | | | |
| 28 | iP | 03 07 29.2 | D | | | |
| 28 | iP | 03 30 51.0 | D | | | |
| 28 | iP | 03 34 53.4 | D | | | |
| 28 | iP | 04 03 43.0 | D | | | |
| 28 | iP | 04 09 31.4 | C | | | Mt. Newman blast |
| 28 | iP | 04 23 47.1 | D | | | |
| 28 | eP | 04 45 25 | | | | |

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| MEEKATHARRA (MEK) CONT. | | | | | | |
| July. | | | | | | |
| 28 | iP | 05 31 19.2 | C | | | |
| 28 | iP | 05 52 36.4 | D | | | |
| 28 | eP | 07 55 44 | | | | |
| 28 | eP | 09 00 17 | | | | |
| 28 | eP | 09 05 37 | | | | |
| 28 | eP | 09 09 26 | | | | |
| 28 | eP | 09 57 29 | | | | |
| 28 | iP | 10 04 23.0 | C | | | |
| 28 | iP | 10 16 27.3 | C | | | |
| 28 | iP | 10 24 49.4 | D | | | |
| 28 | eP | 11 10 15 | | | | |
| 28 | iP | 11 49 01.2 | D | | | |
| 28 | iP | 12 32 14.4 | D | | | |
| 28 | iP | 13 21 43.9 | D | | | |
| 28 | iP | 14 10 03.9 | C | | | |
| 28 | iP | 15 25 43.6 | D | | | |
| 28 | iP | 15 37 15.8 | C | | | |
| 28 | iP | 16 06 52.0 | D | | | |
| 28 | iP | 17 25 45.9 | D | | | |
| 28 | iP | 17 52 06.2 | C | | | |
| 28 | eP | 23 31 49 | | | | |
| 29 | eP | 04 58 53 | | | | |
| 29 | iP | 09 05 08.6 | C | | | |
| 29 | eP | 10 26 01 | | | | |
| 29 | eP | 12 54 13 | | | | |
| 29 | eP | 13 33 23 | | | | |
| 29 | iP | 14 08 43.7 | C | | | |
| 29 | iP | 14 52 47.6 | C | | | |
| 29 | eP | 23 52 24 | | | | |
| 29 | iP | 23 59 11.4 | D | | | |
| 30 | iP | 04 04 01.9 | C | | | |
| 30 | eP | 05 46 51 | | | | |
| 30 | iP | 06 25 39.2 | D | | | |
| 30 | iP | 06 58 03.0 | D | | | |
| 30 | iP | 13 31 10.0 | C | | | |
| 30 | iP | 16 02 12.0 | C | | | |
| 30 | eP | 16 56 33 | | | | |
| 30 | iP | 17 53 30.0 | C | | | |
| 30 | iP | 18 37 34.7 | D | | | |
| 30 | iP | 19 29 53.2 | C | | | |
| 30 | eP | 20 40 35 | | | | |
| 30 | iP | 20 53 38.4 | C | | | |
| 30 | eP | 23 00 38 | | | | |
| 31 | eP | 00 40 00 | | | | |
| 31 | eP | 01 18 02 | | | | |
| 31 | iP | 01 52 51.0 | D | | | |
| 31 | iP | 09 04 33.9 | C | | | |
| | eS | 05 13 | | | | |
| 31 | eP | 14 58 18 | | | | |
| | eS | 59 09 | | | | Meckering |
| 31 | iP | 15 25 21.4 | C | | | |
| 31 | eP | 18 13 04 | | | | |
| 31 | iP | 19 12 26.4 | D | | | |
| 31 | eP | 23 23 06 | | | | |

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| | | | | | | |
|---|---|---|---|---|---|---|
| 01 | iP | 01 18 29.2 | D | | | |
| 01 | eP | 14 31 23 | | | | |
| 01 | iP | 16 37 30.3 | C | | | |
| | eS | 40 04 | | | | |
| 01 | iP | 18 09 17.6 | D | | | |
| | iS | 10 53.3 | | | | |
| 01 | iP | 20 56 11.0 | C | | | |
| 02 | iP | 05 19 13.1 | C | | | |
| 02 | iP | 05 40 22.2 | C | | | |
| 02 | iP | 17 20 50.2 | C | | | |
| | iS | 22 17.4 | | | | |
| 02 | iP | 19 32 36.3 | C | | | |
| | iS | 34 15.4 | | | | |
| 03 | iP | 04 15 43.3 | D | | | |
| 03 | iP | 08 14 16.6 | D | | | |
| 03 | iP | 12 20 29.2 | D | | | |
| 03 | iP | 14 09 17.0 | D | | | |
| 03 | iP | 20 14 09.6 | C | | | |
| | eS | 16 35 | | | | |
| 03 | iP | 22 53 20.2 | D | | | |
| 04 | iP | 03 38 45.7 | D | | | |
| 04 | iP | 08 27 55.9 | C | | | |
| | eS | 29 43 | | | | |
| 04 | iP | 09 10 07.0 | C | | | |
| 04 | iP | 11 37 15.1 | D | | | |
| 04 | iP | 19 08 14.0 | D | | | |
| 05 | iP | 13 17 39.3 | C | | | |
| | iS | 19 14.7 | | | | |
| 05 | iP | 14 22 55.7 | C | | | |
| 06 | iP | 15 27 40.2 | C | | | |
| | iS | 29 11.9 | | | | |
| 07 | iP | 00 35 03.2 | D | | | |
| 07 | iP | 08 07 22.7 | D | | | |
| 07 | iP | 17 04 11.7 | D | | | |
| 08 | eP | 19 07 47 | | | | |
| 09 | iP | 03 22 21.2 | C | | | |
| 09 | eP | 04 18 25 | | | | |
| 09 | iP | 12 35 34.0 | D | | | |
| 10 | iP | 01 09 24.7 | D | | | |
| 10 | eP | 05 29 31 | | | | |
| 10 | eP | 10 16 23 | | | | |
| 10 | eP | 10 37 03 | | | | |
| 10 | iP | 12 00 35.1 | C | | | |
| 10 | iP | 14 35 23.3 | C | | | |
| 10 | iP | 17 49 22.2 | C | | | |
| 11 | iP | 06 53 21.0 | D | | | |
| | eS | 54 47 | | | | |
| 11 | iP | 10 10 42.5 | D | | | |
| 11 | eP | 12 38 00 | | | | |
| 11 | iP | 14 22 19.6 | C | | | |
| 12 | iP | 07 13 24.9 | C | | | |
| 12 | iP | 13 06 51.4 | C | | | |
| 12 | eP | 19 31 21 | | | | |
| 13 | iP | 06 04 57.0 | D | | | |
| 13 | iP | 13 07 17.8 | D | | | |
| | eS | 08 44 | | | | |
| 13 | iP | 18 01 22.4 | C | | | |
| | eS | 02 51 | | | | |

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| July. | | | | | | | |
| 14 | iP | 00 07 09.0 | C | | | | |
| 14 | iP | 03 01 41.0 | C | | | | |
| 14 | iP | 06 17 05.4 | D | | | | |
| 14 | iP | 07 42 57.0 | C | | | | |
| 14 | eP | 12 33 07 | | | | | |
| 14 | iP | 12 45 45.8 | D | | | | |
| 14 | iP | 13 00 25.9 | D | | | | |
| 14 | iP | 13 13 49.5 | D | | | | |
| 14 | iP | 13 53 36.8 | C | | | | |
| 14 | eP | 14 39 12 | | | | | |
| 14 | iP | 14 43 12.0 | D | | | | |
| 14 | iP | 14 57 28.9 | C | | | | |
| 14 | eP | 15 20 32.9 | D | | | | |
| 14 | eP | 15 27 03 | | | | | |
| 14 | iP | 15 52 41.1 | C | | | | |
| 14 | eP | 16 43 20 | | | | | |
| 14 | iP | 17 05 23.8 | D | | | | |
| 14 | iP | 17 44 24.0 | D | | | | |
| 14 | iP | 18 24 49.0 | D | | | | |
| 14 | iP | 18 32 39.2 | D | | | | |
| 14 | iP | 19 39 11.5 | C | | | | |
| 14 | iP | 20 07 22.6 | D | | | | |
| 14 | iP | 20 30 27.0 | D | | | | |
| 14 | eP | 20 55 56 | | | | | |
| 14 | iP | 23 04 17.0 | D | | | | |
| 15 | eP | 00 17 16 | | | | | |
| 15 | iP | 02 19 38.4 | D | | | | |
| 15 | eP | 02 26 56 | | | | | |
| 15 | eP | 02 34 44 | | | | | |
| 15 | iP | 02 46 39.2 | D | | | | |
| 15 | eP | 06 30 36 | | | | | |
| 15 | iP | 06 44 04.8 | D | | | | |
| 15 | eP | 07 46 29 | | | | | |
| 15 | eP | 15 09 58 | | | | | |
| 15 | eP | 15 20 34 | | | | | |
| 15 | iP | 16 00 22.0 | D | | | | |
| 15 | iP | 16 25 45.7 | D | | | | |
| 15 | iP | 17 04 10.1 | C | | | | |
| 15 | iP | 18 23 26.4 | C | | | | |
| 15 | iP | 20 27 29.6 | D | | | | |
| 15 | iP | 21 23 54.1 | C | | | | |
| 15 | iP | 23 06 12.3 | D | | | | |
| 16 | eP | 01 27 07 | | | | | |
| 16 | iP | 02 04 16.8 | D | | | | |
| 16 | iP | 02 56 30.8 | D | | | | |
| 16 | eP | 06 54 30 | | | | | |
| 16 | iP | 07 53 08.5 | D | | | | |
| 16 | iP | 08 01 38.4 | C | | | | Lake MaKay |
| 16 | iP | 12 52 21.4 | C | | | | |
| 16 | iP | 13 25 03.4 | C | | | | |
| 16 | iP | 14 11 10.2 | C | | | | |
| 16 | iP | 16 08 28.7 | C | | | | |
| 16 | eP | 16 50 21 | | | | | |
| 16 | iP | 18 08 11.7 | C | | | | |
| 16 | iP | 21 49 58.9 | C | | | | |
| 16 | eP | 22 25 20 | | | | | |
| 16 | iP | 22 50 52.4 | D | | | | |

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| **KUNUNURRA (KNA) Cont.** | | | | | | |
| July. | | | | | | |
| 17 | iP | 02 04 07.4 | C | | | |
| 17 | eP | 02 50 04 | | | | |
| 17 | iP | 04 19 53.4 | D | | | |
| 17 | iP | 05 40 09.6 | C | | | |
| 17 | iP | 06 14 51.5 | D | | | |
| 17 | eP | 06 43 55 | | | | |
| 17 | iP | 06 56 26.5 | C | | | |
| 17 | iP | 08 51 51.6 | D | | | |
| 17 | iP | 09 05 22.7 | C | | | |
| 17 | iP | 09 55 03.8 | C | | | |
| 17 | iP | 11 30 23.5 | D | | | |
| 17 | iP | 12 38 40.8 | C | | | |
| 17 | eP | 13 08 57 | | | | |
| 17 | iP | 15 10 18.1 | D | 1.0 | 96mu | 2.0 |
| 17 | iP | 16 22 08.0 | D | | | |
| 17 | iP | 16 43 39.2 | C | | | |
| 17 | iP | 20 27 15.2 | C | | | |
| 17 | eP | 21 00 58 | | | | |
| 18 | eP | 00 23 05 | | | | |
| 18 | iP | 06 18 05.3 | D | | | |
| 18 | eP | 08 44 19 | | | | |
| 18 | eP | 09 32 38 | | | | |
| 18 | eP | 14 32 59 | | | | |
| 18 | eP | 17 48 0▼ | | | | |
| 18 | iP | 22 10 20.3 | C | | | |
| 19 | iP | 00 20 19.8 | D | | | |
| 19 | iP | 01 05 46.0 | D | | | |
| 19 | eP | 01 26 51 | | | | |
| 19 | iP | 01 53 10.5 | C | | | |
| 19 | iP | 02 07 26.4 | D | | | |
| 19 | iP | 03 27 43.0 | C | | | |
| 19 | iP | 04 34 34.6 | D | | | |
| 19 | iP | 06 01 05.5 | D | | | |
| 19 | iP | 08 28 41.6 | D | | | |
| 19 | eP | 14 53 01 | | | | |
| 19 | eP | 15 29 17 | | | | |
| 19 | eP | 15 36 05 | | | | |
| 19 | eP | 15 42 56 | | | | |
| 19 | eP | 17 05 40 | | | | |
| 20 | eP | 06 52 03 | | | | |
| 20 | iP | 14 46 21.8 | C | | | |
| 20 | eP | 15 08 13 | | | | |
| 20 | eP | 15 49 47 | | | | |
| 20 | eP | 17 42 45 | | | | |
| 20 | eP | 18 05 01 | | | | |
| 20 | eP | 19 09 33 | | | | |
| 20 | eP | 19 59 50 | | | | |
| 20 | eP | 21 31 31 | | | | |
| 20 | iP | 23 50 54.6 | C | | | |
| | eS | 52 28 | | | | |
| 21 | iP | 03 16 09.1 | D | | | |
| 21 | iP | 05 55 28.2 | D | | | |
| 21 | iP | 08 54 41.0 | D | | | |
| 21 | iP | 12 09 04.1 | C | | | |
| 21 | iP | 13 08 19.1 | D | | | |
| 21 | eP | 13 48 52 | | | | |

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|---|---|---|---|---|---|---|
| KUNUNURRA (KNA) Cont. | | | | | | |
| July. | | | | | | |
| 21 | iP | 15 20 19.1 | C | | | |
| | eS | 22 02 | | | | |
| 21 | iP | 19 01 32.1 | D | | | |
| 21 | iP | 20 11 21.2 | D | | | |
| 21 | eP | 20 38 32 | | | | |
| 22 | eP | 00 04 02 | | | | |
| 22 | eP | 00 06 26 | | | | |
| | eS | 07 57 | | | | |
| 22 | iP | 00 23 50.0 | D | | | |
| | eS | 25 15 | | | | |
| 22 | eP | 01 52 03 | | | | |
| 22 | eP | 02 04 53 | | | | |
| 22 | eP | 04 19 58 | | | | |
| 22 | eP | 04 42 38 | | | | |
| 22 | eP | 06 11 44 | | | | |
| 22 | eP | 10 30 56 | | | | |
| 22 | eP | 22 13 05 | | | | |
| 22 | eP | 14 46 06 | | | | |
| 22 | eP | 15 14 53 | | | | |
| 22 | eP | 20 00 48 | | | | |
| 22 | eP | 22 16 26 | | | | |
| 23 | iP | 00 00 55.1 | C | | | |
| 23 | eP | 09 17 54 | | | | |
| 23 | eP | 12 03 37 | | | | |
| 23 | eP | 14 41 23 | | | | |
| 23 | eP | 18 03 36 | | | | |
| 23 | eP | 22 56 28 | | | | |
| 24 | iP | 12 57 22.6 | C | | | |
| 24 | eP | 15 14 44 | | | | |
| 24 | iP | 18 47 28.2 | D | | | |
| | eS | 50 10 | | | | |
| 25 | eP | 06 28 23 | | | | |
| 25 | eP | 06 37 54 | | | | |
| 25 | iP | 09 15 31.4 | C | | | |
| 25 | eP | 12 57 34 | | | | |
| 25 | iP | 14 16 42.0 | D | | | |
| 25 | eP | 15 53 17 | | | | |
| 25 | iP | 16 14 44.0 | D | | | |
| 25 | eP | 16 50 05 | | | | |
| 25 | iP | 17 06 58.0 | D | | | |
| 25 | eP | 18 25 04 | | | | |
| 25 | eP | 20 21 23 | | | | |
| 25 | eP | 22 30 03 | | | | |
| 25 | eP | 22 56 39 | | | | |
| 26 | iP | 01 28 54.0 | C | | | |
| 26 | eP | 04 23 22 | | | | |
| 26 | eP | 04 41 22 | | | | |
| 26 | eP | 05 40 24 | | | | |
| 26 | eP | 05 43 09 | | | | |
| 26 | eP | 06 07 03 | | | | |
| 26 | iP | 06 14 14.8 | D | | | |
| 26 | iP | 06 58 22.6 | C | | | |
| 26 | eP | 07 35 43 | | | | |
| 26 | iP | 07 43 30.7 | C | | | |
| 26 | eP | 08 03 24 | | | | |
| 26 | eP | 09 12 36 | | | | |
| 26 | eP | 09 24 47 | | | | |

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KUNUNURRA (KNA)

July.

| | | | | | | |
|---|---|---|---|---|---|---|
| 26 | eP | 09 40 09 | | | | |
| 26 | eP | 10 05 07 | | | | |
| 26 | eP | 10 09 03 | | | | |
| 26 | eP | 16 06 44 | | | | |
| 26 | eP | 16 14 48 | | | | |
| 26 | eP | 16 35 30 | | | | |
| 26 | eP | 16 40 26 | | | | |
| 26 | eP | 18 12 12 | | | | |
| 26 | eP | 20 05 29 | | | | |
| 26 | eP | 20 19 46 | | | | |
| 26 | eP | 21 11 39 | | | | |
| 26 | eP | 21 24 59 | | | | |
| 26 | eP | 21 40 32 | | | | |
| 26 | eP | 21 54 34 | | | | |
| | eS | 58 04 | | | | |
| 26 | eP | 22 06 12 | | | | |
| 26 | eP | 22 32 58 | | | | |
| 26 | eP | 22 39 12 | | | | |
| 26 | eP | 23 18 11 | | | | |
| 26 | eP | 23 27 47 | | | | |
| 26 | eP | 23 40 06 | | | | |
| 26 | eP | 23 48 54 | | | | |
| 26 | eP | 23 55 27 | | | | |
| 27 | eP | 00 02 41 | | | | |
| 27 | eP | 01 12 30 | | | | |
| 27 | eP | 01 27 43 | | | | |
| 27 | eP | 01 39 08 | | | | |
| 27 | eP | 01 45 44 | | | | |
| 27 | eP | 01 59 17 | | | | |
| 27 | eP | 02 03 49 | | | | |
| 27 | eP | 02 18 35 | | | | |
| 27 | eP | 02 37 53 | | | | |
| 27 | eP | 02 43 41 | | | | |
| 27 | eP | 03 08 53 | | | | |
| 27 | eP | 03 22 22 | | | | |
| 27 | eP | 04 06 48 | | | | |
| 27 | eP | 04 22 07 | | | | |
| 27 | eP | 04 38 48 | | | | |
| 27 | eP | 04 46 25 | | | | |
| 27 | eP | 05 01 07 | | | | |
| 27 | eP | 05 09 22 | | | | |
| 27 | eP | 05 54 56 | | | | |
| 27 | eP | 06 24 12 | | | | |
| 27 | eP | 06 39 15 | | | | |
| 27 | eP | 06 58 09 | | | | |
| 27 | eP | 07 28 15 | | | | |
| 27 | eP | 07 35 52 | | | | |
| 27 | eP | 08 40 57 | | | | |
| 27 | eP | 08 54 33 | | | | |
| 27 | eP | 09 01 00 | | | | |
| 27 | eP | 09 48 18 | | | | |
| 27 | eP | 10 13 25 | | | | |
| | eS | 17 13 | | | | |
| 27 | eP | 14 07 54 | | | | |
| 27 | eP | 18 13 56 | | | | |
| 27 | eP | 20 53 25 | | | | |
| 27 | eP | 23 33 08 | | | | |

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|---|---|---|---|---|---|---|
| KUNUNURRA (KNA) Cont. | | | | | | |
| July. | | | | | | |
| 28 | eP | 00 00 05 | | | | |
| 28 | eP | 01 15 56 | | | | |
| 28 | iP | 02 52 51.1 | D | | | |
| 28 | iP | 07 53 50.0 | D | | | |
| 28 | eP | 09 55 34 | | | | |
| 28 | iP | 10 02 28.5 | C | | | |
| 29 | eP | 14 06 48 | | | | |
| 29 | iP | 16 25 55.0 | C | | | |
| 29 | iP | 21 29 40.4 | C | | | |
| 29 | iP | 23 44 33.5 | C | | | |
| 29 | iP | 23 49 36.0 | C | | | |
| 30 | eP | 04 02 05 | | | | |
| 30 | iP | 06 23 45.4 | C | | | |
| 30 | iP | 06 56 19.6 | C | | | |
| 30 | iP | 13 29 15.4 | D | | | |
| 30 | eP | 17 50 41 | | | | |
| | eS | 52 28 | | | | |
| 30 | iP | 20 51 44.0 | C | | | |
| 30 | iP | 22 05 20.9 | D | | | |
| 31 | iP | 15 23 27.1 | D | | | |
| 31 | iP | 16 03 26.0 | D | | | |
| | eS | 04 57 | | | | |
| 31 | eP | 20 08 22 | | | | |
| 31 | iP | 23 21 11.5 | C | | | |
| KARRATHA (KAA) | | | | | | |
| July. | | | | | | |
| 01 | iP | 01 20 33.4 | C | | | |
| 02 | eP | 05 04 36 | | | | |
| 03 | iP | 08 13 03.0 | C | 1.0 | 640 mu | 2.8 |
| 03 | iP | 12 21 35.5 | D | 1.0 | 760mu | 2.9 |
| 04 | iP | 11 37 55.1 | D | | | |
| 04 | eP | 08 28 35 | | | | |
| 05-09 | | Nil | | | | |
| 10 | eP | 12 02 35 | | | | |
| 11 | | Nil | | | | |
| 12 | eP | 13 08 45 | | | | |
| 13 | | Nil | | | | |
| 14 | eP | 06 18 51 | | | | |
| 14 | iP | 12 53 00.0 | C | | | |
| 14 | iP | 15 11 21.5 | C | | | |
| 14 | eP | 17 46 11 | | | | |
| 14 | iP | 18 34 24.7 | D | | | |
| 14 | iP | 18 35 04.4 | C | | | |
| 15 | eP | 14 04 14 | | | | |
| 15 | iP | 18 24 32.4 | C | | | |
| 16 | eP | 08 02 09 | | | | |
| 16 | iP | 13 26 50.5 | D | | | Lake Mar |
| 17 | eP | 05 39 21 | | | | |
| 17 | eP | 06 45 40 | | | | |
| 17 | iP | 08 53 37.0 | C | | | |
| 17 | iP | 11 32 10.0 | D | | | |
| 17 | eP | 15 10 03 | | | | |
| 17 | iP | 16 23 23.2 | D | | | |
| 17 | iP | 16 45 26.8 | C | | | |
| 18 | iP | 14 38 38.2 | D | | | |
| 19 | iP | 00 22 07.0 | D | 0.9 | 350mu | 2.5 |

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|---|---|---|---|---|---|---|
| KARRATHA (KAA) | Cont. | | | | | |
| July. | | | | | | |
| 19 | iP | 06 02 51.9 | D | | | |
| 19 | iP | 08 30 27.6 | D | | | |
| 19 | iP | 14 54 55.5 | C | | | |
| 19 | iP | 15 44 44.3 | C | 1.0 | 80mu | 1.9 |
| 19 | iP | 17 06 18.9 | C | | | |
| 20 | iP | 21 33 18.6 | D | | | |
| 21 | iP | 12 10 52.0 | D | | | |
| 22 | eP | 21 11 19 | | | | |
| 23-24 | | Nil | | | | |
| 25 | eP | 12 58 21 | | | | |
| 25 | iP | 14 18 38.9 | D | | | |
| | eS | 22 09 | | | | |
| 25 | iP | 16 15 57.0 | C | | | |
| 25 | iP | 16 51 52.5 | D | | | |
| 25 | eP | 22 31 48 | | | | |
| 26 | iP | 01 30 40.9 | C | | | |
| 26 | iP | 06 15 40.0 | D | | | |
| | iX | 16 36.0 | D | | | |
| 26 | eP | 08 02 32 | | | | |
| 26 | iP | 08 05 26.3 | C | | | |
| 26 | iP | 08 08 57.0 | D | | | |
| 26 | iP | 09 26 43.0 | C | | | |
| 26 | eP | 09 41 59 | | | | |
| 26 | eP | 10 57 05 | | | | |
| 26 | eP | 11 04 01 | | | | |
| 26 | iP | 12 12 07.2 | D | | | |
| 26 | eP | 13 03 49 | | | | |
| 26 | iP | 14 57 04.0 | C | | | |
| 26 | iP | 15 16 34.6 | C | | | |
| 26 | eP | 15 37 50 | | | | |
| 26 | eP | 15 42 44 | | | | |
| 26 | iP | 16 52 03.7 | C | | | |
| 26 | iP | 17 13 58.0 | C | | | |
| 26 | iP | 17 22 56.7 | D | | | |
| 26 | iP | 17 57 19.8 | D | | | |
| 26 | eP | 18 08 01 | | | | |
| 26 | iP | 19 07 18.4 | C | | | |
| 26 | iP | 19 22 35.2 | C | | | |
| 26 | iP | 20 26 46.5 | D | | | |
| 26 | iP | 20 42 19.4 | D | | | |
| 26 | iP | 20 59 52.3 | C | | | |
| 26 | eP | 21 07 59 | | | | |
| 26 | eP | 23 40 45 | | | | |
| 27 | iP | 00 29 39.0 | C | | | |
| 27 | iP | 01 05 48.3 | D | | | |
| 27 | iP | 02 10 39.4 | D | | | |
| 27 | iPKP | 02 22 25.3 | C | | | |
| 27 | eP | 06 38 53 | | | | |
| 27 | iP | 07 42 45.9 | D | | | |
| 27 | iP | 09 19 01.7 | D | | | |
| 27 | eP | 09 25 50 | | | | |
| 27 | iP | 11 28 23.8 | C | | | |
| 27 | eP | 13 39 03 | | | | |
| 27 | iP | 14 09 41.6 | D | | | |
| 27 | iP | 15 03 59.0 | C | | | |
| 27 | iP | 18 15 45.4 | C | | | |
| 27 | iP | 20 55 13.4 | C | | | |
| 27 | eP | 23 42 22 | | | | |

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KARRATHA (KAA) Cont.

| | | | | | | |
|---|---|---|---|---|---|---|
| July. | | | | | | |
| 28 | iP | 01 17 42.4 | D | | | |
| 28 | eP | 07 55 37 | | | | |
| 28 | eP | 10 04 16 | | | | |
| 28 | iP | 10 24 42.7 | D | | | |
| 28 | iP | 14 09 56.1 | C | | | |
| 29 | iP | 09 05 01.5 | C | | | |
| 29 | iP | 10 25 52.9 | D | | | |
| 29 | eP | 13 20 15 | | | | |
| 29 | iP | 13 27 27.3 | D | | | |
| 29 | eP | 13 33 16 | | | | |
| 29 | iP | 14 08 35.6 | D | | | |
| 29 | iP | 16 27 40.9 | D | | | |
| 30 | iP | 04 03 18.8 | C | | | |
| 30 | iP | 06 25 31.2 | D | | | |
| 30 | iP | 13 31 02.6 | C | | | |
| 31 | eP | 02 10 58 | | | | |
| 31 | iP | 09 04 14.9 | C | | | |
| | eS | 04 54 | | | | |
| 31 | iP | 20 10 89.1 | C | | | |

MEEKATHARRA (MEK) *

| | | | | | | |
|---|---|---|---|---|---|---|
| July. | | | | | | |
| 27 | iP | 14 00 03.4 | D | | | |
| 27 | iP | 14 09 49.0 | D | | | |
| 27 | iP | 15 04 05.2 | D | | | |
| 27 | iP | 16 33 36.1 | D | | | |
| 27 | eP | 16 39 24 | | | | |
| 27 | iP | 18 15 53.0 | C | | | |
| 27 | iP | 19 02 24.3 | D | | | |
| 27 | iP | 19 23 51.3 | D | | | |
| 27 | iP | 20 55 21.0 | D | | | |
| | eS | 21 01 11 | | | | |

P.J. Gregson,
Observer-in-Charge.

International Seismological Centre

International Seismological Centre

COMMONWEALTH OF AUSTRALIA

Department of National Development

Bureau of Mineral Resources, Geology and Geophysics

# MUNDARING GEOPHYSICAL OBSERVATORY

AUGUST 1971

## MUNDARING (MUN)

Latitude: 31°58.7'S Longitude: 116°12.5'E

Height: 253 Metres

Foundation: Precambrian granite

## KALGOORLIE (KLG)

Latitude: 30°47' 01.2"S Longitude: 121°27' 28.9"E

Height: 350 Metres

Foundation Alluvium-covered Precambrian basic metasediments

## MEEKATHARRA (MEK)

Latitude: 26°36'46"S Longitude: 118°32'42"E

Height: 515 Metres

Foundation: Archean Sedimentary rock

## KARRATHA (KAA)

Latitude: 20°46.6'S Longitude: 116°51.5'E

Height: 15 Metres

Foundation: Precambrian volcanics

## KUNUNURRA (KNA)

Latitude: 50°45.0'S Longitude: 128°46.0'E

Height: 55 Metres

Foundation: Unweathered upper Devonian sandstone.

All correspondence relating to these seismographs should be addressed to:-

Observer-in-Charge,
Geophysical Observatory,
MUNDARING. 6073

# INSTRUMENTATION

## MUNDARING

World wide standard seismograph system No. 44

| | | |
|---|---|---|
| Nominal magnification | S,P-Z, N, E | 25000 at 1 second |
| | LP-Z | 750 at 15 seconds |
| | LP-N, E | 375 at 15 seconds |

| | Component | Seismometer | Galvanometer | Magnification |
|---|---|---|---|---|
| KALGOORLIE | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 15,800 at 1 second |
| | SP-SW | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.25 | 16,500 at 1 second |
| | SP-NW | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.25 | 16,500 at 1 second |
| MEEKATHARRA | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 9,000 at 1 second |
| KARRATHA | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 31,000 at 1 second |
| KUNUNURRA | SP- Z | Willmore Mk1 To = 1.0 | Willmore Tg = 0.25 | 20,000 at 1 second |

Timemarks for all stations other than Mundaring are normally supplied from an EMI crystal clock controlled by VNG or ABC radio pips.

Magnification curves are available on request.

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|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** | | | | | | | |
| August. | | | | | | | |
| 01 | eP | 21 57 44 | | | | | |
| 02 | iP | 07 36 46.0 | D | LZ 20.0 | 34 u | | |
| | | | | LN 20.0 | 23 u | | |
| | | | | LE 20.0 | 26 u | | |
| 02 | iP | 09 07 58.9 | C | | | | |
| 02 | iP | 13 04 33.0 | C | | | | |
| 02 | iP | 13 11 50.9 | D | | | | |
| 02 | eP | 20 17 50 | | | | | |
| 03 | | Nil | | | | | |
| 04 | iP | 00 28 02.2 | D | 0.3 | 190mu | 2.8 | Calingiri |
| | iS | 28 12.9 | | | | | ML = 3.1 |
| 04 | eP | 00 36 24 | | | | | |
| 04 | eP | 04 16 05 | | | | | |
| 05 | eP | 01 32 11 | | | | | |
| 05 | iP | 02 18 09.0 | D | LZ 20.0 | 10 u | | |
| | | | | LN 20.0 | 8 u | | |
| | | | | LE 20.0 | 4 u | | |
| 05 | eP | 12 54 35 | | | | | |
| 05 | eP | 13 33 25 | | | | | |
| 05 | iP | 22 45 52.5 | D | | | | |
| 06 | iP | 10 10 56.7 | C | 1.0 | 40mu | 1.6 | |
| 06 | iP | 14 55 04.7 | D | 1.0 | 72mu | 1.8 | |
| 06 | eP | 18 14 26 | | | | | |
| 06 | iP | 18 51 32.6 | C | | | | |
| 06 | iP | 23 01 28.9 | D | 0.9 | 165mu | 2.3 | |
| 07 | iP | 07 02 02.9 | C | 1.0 | 190mu | 2.3 | |
| 07 | eP | 23 18 05 | | | | | |
| 08 | iP | 16 42 49.0 | D | 0.8 | 56mu | 1.8 | |
| 09 | eP | 08 27 21 | | | | | |
| 09 | iP | 12 20 04.7 | C | 1.2 | 200mu | 2.3 | |
| | | | | LZ 20.0 | 71 u | | |
| | | | | LN 20.0 | 26 u | | |
| | | | | LE 20.0 | 57 u | | |
| 09 | iP | 20 09 33.7 | C | | | | |
| 10 | iP | 04 31 50.0 | D | 1.0 | 100mu | 2.0 | |
| 10 | iP | 14 45 56.5 | D | 1.0 | 160mu | 2.0 | |
| 11 | iP | 05 00 02.3 | C | | | | |
| 11 | eP | 09 43 29 | | | | | |
| 11 | eP | 13 41 45 | | | | | |
| 11 | eP | 14 31 01 | | | | | |
| 11 | iP | 17 44 53.0 | C | | | | |
| 12 | iP | 04 25 47.9 | D | | | | |
| 13 | iP | 08 13 57.8 | D | | | | |
| 13 | eP | 14 50 57 | | | | | |
| 13 | eP | 16 40 46 | | | | | |
| 13 | iP | 16 56 51.8 | C | LZ 20.0 | 40 u | | |
| | eS | 17 02 20 | | LN 20.0 | 12 u | | |
| | | | | LE 20.0 | 25 u | | |
| 14 | iP | 00 23 56.6 | D | LZ 20.0 | 17 u | | |
| | | | | LN 20.0 | 6 u | | |
| | | | | LE 20.0 | 11 u | | |
| 14 | eP | 04 12 49 | | | | | |

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|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN) Cont.** | | | | | | | |
| August. | | | | | | | |
| 14 | eP | 09 13 06 | | LZ 20.0 | 83 u | | |
| | eS | 21 22 | | LN 20.0 | 40 u | | |
| | | | | LE 20.0 | 54 u | | |
| 15 | | Nil | | | | | |
| 16 | eP | 04 15 29 | | | | | |
| 16 | eP | 05 08 18 | | | | | |
| 16 | iP | 22 47 50.1 | D | | | | |
| 17 | eP | 08 25 34 | | | | | |
| 17 | eP | 23 57 19 | | | | | |
| 18 | eP | 00 16 20 | | | | | |
| 18 | eP | 03 48 28 | | | | | |
| 18 | eP | 04 13 01 | | | | | |
| 18 | iP | 08 18 33.5 | D | | | | |
| 18 | eP | 10 48 34 | | | | | |
| 18 | iP | 17 21 17.0 | C | | | | Doodlakine |
| | iS | 21 35.6 | | | | | ML = 3.0 |
| 18 | eP | 22 32 56 | | | | | |
| 19 | eP | 04 26 24 | | | | | |
| 19 | eP | 08 38 30 | | | | | |
| 19 | iP | 11 22 04.9 | C | | | | |
| 19 | eP | 12 09 45 | | | | | |
| 19 | eP | 12 31 41 | | | | | |
| 19 | iP | 13 16 25.5 | C | | | | |
| 19 | iP | 22 28 26.1 | C | | | | |
| 20 | iP | 02 06 56.6 | D | | | | |
| 20 | ePKP | 21 55 49 | | | | | |
| 21 | iP | 04 13 06.5 | C | | | | |
| 21 | eP | 06 19 08 | | | | | |
| 21 | eP | 10 34 42 | | | | | 1000km NW |
| | eS | 38 08 | | | | | Karratha |
| 22 | | Nil | | | | | |
| 23 | iP | 04 15 30.4 | D | | | | |
| 23 | iP | 15 49 46.3 | D | | | | |
| 24 | iP | 08 28 58.3 | D | | | | |
| 24 | iP | 13 37 12.2 | C | | | | |
| 24 | iP | 15 56 38.7 | D | | | | |
| 24 | eP | 16 46 04 | | | | | |
| 25 | | Nil | | | | | |
| 26 | iP | 09 42 39.4 | D | | | | |
| 26 | iP | 11 03 22.8 | C | | | | |
| 26 | iP | 17 42 26.8 | C | | | | |
| 27 | | Nil | | | | | |
| 28 | iP | 04 19 18.5 | C | | | | |
| 29 | iP | 03 42 43.0 | D | | | | |
| 29 | iP | 08 08 56.2 | D | 0.6 | 25mu | 1.6 | 430km W MUN |
| | iS | 09 36.6 | | | | | ML = 3.2 |
| 29 | ePKP | 08 46 36 | | | | | |
| 29 | iP | 09 37 21.0 | C | | | | |
| 30 | eP | 04 17 09 | | | | | |
| 30 | iP | 17 26 42.8 | C | | | | |
| 30 | iP | 21 21 31.8 | D | | | | |
| 31 | iP | 05 18 30.8 | D | | | | |

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|---|---|---|---|---|---|---|
| KALGOORLIE (KLG) | | | | | | |
| August. | | | | | | |
| 01 | eP | 02 18 49.5 | D | | | |
| 01 | eP | 16 10 49 | | | | |
| 01 | eP | 21 57 07 | | | | |
| 02 | iP | 01 27 14.1 | D | | | |
| 02 | iP | 07 36 31.2 | D | 1.0 | 530mu | 2.7 |
| 02 | iP | 09 07 39.4 | D | | | |
| 02 | iP | 13 11 36.0 | D | | | |
| 02 | iP | 20 17 12.9 | C | | | |
| 03 | eP | 04 48 02 | | | | |
| 03 | iP | 19 22 36.0 | C | | | |
| 04 | iP | 00 36 34.1 | C | 1.0 | 310mu | 2.5 |
| 04 | eP | 04 17 27 | | | | |
| 05 | iP | 11 43 45.1 | C | | | |
| 05 | iP | 12 53 37.1 | C | | | |
| 06 | iP | 10 10 20.5 | C | 1.0 | 70mu | 1.8 |
| 06 | iP | 18 50 56.2 | D | | | |
| 06 | iP | 23 00 58.5 | D | | | |
| 07 | iP | 07 01 27.1 | C | | | |
| 07 | iP | 23 17 29.7 | C | | | |
| 08 | iP | 16 42 23.6 | D | 1.0 | 218mu | 2.3 |
| 09 | iP | 08 27 01.3 | D | | | |
| 09 | iP | 12 19 29.1 | C | | | |
| 09 | iP | 20 08 58.1 | C | | | |
| 10 | eP | 04 31 14.6 | D | | | |
| 10 | iP | 14 45 21.4 | C | | | |
| 11 | iP | 04 59 43.6 | C | | | |
| 11 | iP | 13 41 34.7 | D | | | |
| 11 | eP | 14 30 55 | | | | |
| 11 | eP | 17 59 46 | | | | |
| 12 | eP | 04 26 02 | | | | |
| 12 | eP | 06 13 21 | | | | |
| 13 | iP | 14 50 31.7 | C | | | |
| 13 | eP | 16 40 13 | | | | |
| 13 | iP | 16 56 14.8 | D | | | |
| 13 | eP | 20 36 45 | | | | |
| 13 | eP | 22 19 43 | | | | |
| 14 | iP | 00 23 21.8 | C | | | |
| 14 | iP | 05 03 13.7 | D | | | |
| 14 | eP | 09 11 18 | | | | |
| 15 | | Nil | | | | |
| 16 | iP | 02 27 43.3 | C | | | |
| 16 | iP | 05 08 17.0 | D | | | |
| 16 | iP | 10 35 07.5 | D | | | |
| 16 | iP | 19 04 12.3 | C | | | |
| 16 | eP | 19 11 01 | | | | |
| 16 | iP | 22 47 50.2 | D | | | |
| 17 | iP | 23 56 48.2 | D | | | |
| 18 | iP | 01 38 19.7 | C | | | |
| 18 | iP | 10 47 57.4 | C | | | |
| 18 | eP | 17 21 36 | | | | |

Doodlakine
ML = 3.0

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|---|---|---|---|---|---|---|---|
| KALGOORLIE (KLG) Cont. | | | | | | | |
| August. | | | | | | | |
| 18 | eP | 21 52 14 | | | | | |
| 19 | iP | 08 38 18.6 | D | | | | |
| 19 | iP | 13 15 48.6 | D | | | | |
| 19 | iP | 13 44 45.6 | D | | | | |
| 19 | iP | 22 28 12.2 | C | 1.0 | 217mu | 2.3 | |
| 20 | iP | 02 06 25.6 | C | | | | |
| 20 | iPKP | 21 55 40.6 | C | | | | |
| 21 | eP | 10 34 35 | | | | | 1000km NW Dampier |
| | eS | 37 53 | | | | | |
| 22 | iP | 19 07 13.9 | D | | | | |
| 23 | iP | 04 14 55.3 | D | | | | |
| 23 | eP | 05 46 28 | | | | | |
| 24 | ePKP | 08 28 51 | | | | | |
| 24 | eP | 13 36 35 | | | | | |
| 24 | iP | 15 56 12.4 | D | | | | |
| 25 | | Nil | | | | | |
| 26 | iP | 09 42 09.0 | D | | | | |
| 26 | iP | 11 03 35.2 | C | | | | |
| 27 | | Nil | | | | | |
| 28 | iP | 04 18 48.4 | D | | | | |
| 28 | eP | 21 46 21 | | | | | |
| 29 | iP | 03 42 23.6 | D | | | | |
| 29 | eP | 08 09 56 | | 0.4 | 24mu | 1.8 | |
| 29 | iP | 09 37 04.8 | D | | | | |
| 30 | iP | 17 26 18.0 | C | | | | |
| 31 | | Nil | | | | | |
| MEEKATHARRA (MEK) | | | | | | | |
| August. | | | | | | | |
| 01 | iP | 01 10 23.1 | D | | | | |
| 01 | iP | 02 18 35.4 | D | | | | |
| 01 | iP | 12 34 14.1 | D | | | | |
| 01 | iP | 16 10 50.9 | D | | | | |
| 01 | eP | 16 47 31 | | | | | |
| 01 | eP | 21 57 08 | | | | | |
| 02 | iP | 00 27 14.9 | D | | | | |
| 02 | iP | 07 33 05.9 | D | | | | |
| 02 | iP | 07 36 12.5 | D | | | | |
| 02 | iP | 09 07 08.2 | C | | | | |
| 02 | iP | 09 59 09.0 | C | | | | |
| 02 | eP | 10 33 40 | | | | | |
| 02 | eP | 11 35 46 | | | | | |
| 02 | iP | 13 03 56.5 | D | | | | |
| 02 | iP | 13 11 17.1 | C | | | | |
| 02 | eP | 15 16 04 | | | | | |
| 02 | eP | 19 11 42 | | | | | |
| 02 | iP | 19 31 31.9 | D | | | | |
| 02 | iP | 20 17 13.3 | C | | | | |
| 03 | eP | 04 47 57 | | | | | |
| 03 | iP | 08 53 00.0 | D | | | | |
| 03 | eP | 18 23 53 | | | | | |
| 03 | eP | 18 48 11 | | | | | |
| 04 | iP | 00 29 00.0 | C | | | | Calingiri |
| | eS | 29 54 | | | | | |

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|---|---|---|---|---|---|---|
| MEEKATHARRA (MEK) Cont. | | | | | | |
| August. | | | | | | |
| 04 | iP | 00 36 08.1 | C | | | |
| 05 | eP | 04 55 44 | | | | |
| 06 | iP | 10 10 22.5 | D | | | |
| 06 | iP | 14 54 41.7 | C | | | |
| 06 | eP | 18 50 56 | | | | |
| 06 | iP | 23 01 19.0 | D | | | |
| 07 | iP | 05 06 07.9 | D | | | |
| 07 | iP | 07 01 42.5 | C | | | |
| 07 | eP | 15 10 25 | | | | |
| 07 | iP | 23 17 28.1 | D | | | |
| 08 | iP | 16 41 56.9 | D | | | |
| | eS | 45 59 | | | | |
| 09 | iP | 06 43 21.9 | C | | | |
| 09 | iP | 08 26 29.4 | C | | | |
| 09 | iP | 12 19 31.1 | D | | | |
| 09 | iP | 15 27 55.2 | C | | | |
| 09 | iP | 20 08 57.5 | D | | | |
| 09 | eP | 20 53 28 | | | | |
| 09 | eP | 21 55 32 | | | | |
| 09 | eP | 22 39 01 | | | | |
| 09 | iP | 22 52 51.9 | D | | | |
| 10 | iP | 04 30 31.9 | C | | | |
| 10 | eP | 04 31 15 | | | | |
| 10 | eP | 04 41 05 | | | | |
| 10 | eP | 08 16 20 | | | | |
| 10 | eP | 11 41 08 | | | | |
| 10 | eP | 14 45 22 | | | | |
| 11 | eP | 00 03 42 | | | | |
| 11 | iP | 00 09 39.1 | D | | | |
| 11 | iP | 04 59 11.9 | C | | | |
| 11 | eP | 13 23 52 | | | | |
| 11 | eP | 13 31 23 | | | | |
| 11 | eP | 13 40 48 | | | | |
| 11 | eP | 14 31 33 | | | | |
| 11 | eP | 17 45 25 | | | | |
| 11 | eP | 18 12 43 | | | | |
| 12 | eP | 04 25 21 | | | | |
| 12 | eP | 06 11 01 | | | | |
| 13 | eP | 14 51 05 | | | | |
| 13 | eP | 16 39 44 | | | | |
| 13 | eP | 16 56 16 | | | | |
| 13 | eP | 18 14 38 | | | | |
| 13 | eP | 20 36 46 | | | | |
| 13 | eP | 21 27 12 | | | | |
| 13 | eP | 22 19 45 | | | | |
| 14 | iP | 00 23 36.5 | C | | | |
| 14 | eP | 04 11 38 | | | | |
| 14 | eP | 05 02 41 | | | | |
| 14 | eP | 09 11 30 | | | | |
| 14 | iP | 20 46 01.8 | C | | | |
| 15 | eP | 13 09 03 | | | | |
| 16 | iP | 02 27 45.7 | C | | | |
| 16 | iP | 04 14 18.2 | C | | | |
| | eS | 15 00 | | | | |

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|---|---|---|---|---|---|---|---|
| **MEEKATHARRA (MEK)** | | **Cont.** | | | | | |
| August. | | | | | | | |
| 16 | eP | 05 07 44 | | | | | |
| 16 | eP | 05 35 19 | | | | | |
| 16 | iP | 19 03 38.8 | C | | | | |
| 16 | eP | 22 47 17 | | | | | |
| 17 | iP | 05 23 27.4 | C | | | | |
| 17 | iP | 17 30 59.0 | D | | | | |
| 17 | iP | 18 56 19.8 | D | | | | |
| 17 | iP | 20 10 14.6 | C | | | | |
| 17 | iP | 23 57 08.0 | D | | | | |
| 18 | eP | 00 15 44 | | | | | |
| 18 | iP | 00 45 37.0 | C | | | | |
| 18 | eP | 04 09 00 | | | | | |
| 18 | iP | 09 06 51.4 | C | | | | |
| 18 | iP | 10 47 59.7 | D | | | | |
| 18 | eP | 17 22 09 | | | | | Doodlakine |
| | eS | 23 00 | | | | | ML = 3.0 |
| 19 | iP | 08 37 48.0 | D | | | | |
| 19 | iP | 11 21 20.4 | C | | | | |
| 19 | iP | 11 55 26.4 | C | | | | |
| 19 | eP | 12 08 33 | | | | | |
| | eS | 11 07 | | | | | |
| 19 | eP | 13 15 51 | | | | | |
| 19 | iP | 13 44 24.5 | D | 0.5 | 36mu | 1.9 | |
| 19 | iP | 22 27 57.6 | C | 1.0 | 180mu | 2.3 | |
| 19 | eP | 22 47 47 | | | | | |
| 20 | iP | 11 27 16.2 | C | | | | |
| 20 | iPKP | 21 55 50.4 | C | | | | |
| 21 | eP | 04 12 17 | | | | | |
| 21 | iP | 10 31 34.5 | C | | | | |
| 21 | iP | 10 33 35.1 | D | | | | 1000km NW |
| | iS | 36 09.1 | | | | | Karratha |
| 21 | iP | 11 59 20.1 | C | | | | |
| 21 | iP | 16 17 27.7 | D | | | | |
| 21 | eP | 19 06 05 | | | | | |
| 21 | eP | 20 45 13 | | | | | |
| 22 | iP | 13 10 40.1 | D | | | | |
| 22 | iP | 17 22 31.8 | D | | | | |
| 22 | iP | 18 06 52.0 | D | | | | |
| 23 | iP | 04 14 48.4 | D | 1.0 | 280mu | 2.4 | |
| 23 | iP | 10 22 14.5 | D | | | | |
| 23 | iP | 18 32 05.0 | D | | | | |
| 23 | iP | 20 37 34.8 | D | | | | |
| 23 | iP | 22 07 11.4 | C | | | | |
| 24 | iP | 05 53 25.1 | C | | | | |
| 24 | eP | 13 36 35 | | | | | |
| 24 | iP | 15 55 47.8 | D | | | | |
| 24 | iP | 22 22 13.1 | C | | | | |
| 25 | iP | 07 20 19.2 | C | | | | |
| 25 | eP | 11 30 40 | | | | | |
| 25 | eP | 22 31 15 | | | | | |
| 26 | eP | 03 18 06 | | | | | |
| 26 | iP | 09 42 27.9 | D | | | | |
| 26 | oP | 11 03 49 | | | | | |
| 26 | iP | 17 42 11.2 | C | | | | |

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|---|---|---|---|---|---|---|---|
| MEEKATHARRA (MEK) Cont. | | | | | | | |
| August. | | | | | | | |
| 26 | eP | 18 01 31 | | | | | |
| 26 | eP | 23 48 02 | | | | | |
| 27 | eP | 07 07 28 | | | | | |
| 28 | eP | 00 48 59 | | | | | |
| 28 | eP | 02 58 01 | | | | | |
| 28 | eP | 09 17 42 | | | | | |
| 28 | eP | 11 01 32 | | | | | |
| 28 | eP | 16 07 22 | | | | | |
| 28 | iP | 21 46 21.5 | C | | | | |
| 29 | iP | 03 41 53.9 | D | | | | |
| 29 | eP | 08 09 45 | | 0.3 | 13mu | 1.6 | 430km W Mundaring |
| | eS | 11 01 | | | | | |
| 30 | eP | 04 14 27 | | | | | |
| | eS | 15 15 | | | | | |
| 31 | iP | 05 17 32.7 | D | | | | |
| KARRATHA (KAA) | | | | | | | |
| August. | | | | | | | |
| 01 | iP | 01 10 15.8 | D | | | | |
| 01 | iP | 02 18 11.5 | D | | | | |
| 01 | iP | 12 33 30.8 | C | | | | |
| 01 | eP | 16 10 42 | | | | | |
| 01 | iP | 16 47 24.6 | C | | | | |
| 01 | iP | 21 57 01.2 | C | | | | |
| 02 | iP | 00 27 07.9 | D | | | | |
| 02 | eP | 07 32 52 | | | | | |
| 02 | iP | 07 35 42.8 | D | | | | |
| 02 | iP | 08 04 04.0 | C | | | | |
| 02 | iP | 09 06 24.2 | C | 1.0 | 160mu | 2.2 | |
| 02 | iP | 13 03 50.0 | C | | | | |
| 02 | iP | 13 10 47.5 | D | 1.1 | 96mu | 2.0 | |
| 03 | eP | 04 48 52 | | | | | |
| 04 | iP | 00 35 37.4 | C | | | | |
| 04 | eP | 04 14 22 | | | | | |
| 04 | eP | 21 29 20 | | | | | |
| 05 | eP | 01 30 05 | | | | | |
| 05 | ePKP | 02 18 20 | | | | | |
| 05 | iP | 04 54 45.3 | C | | | | |
| 05 | iP | 11 43 38.6 | | | | | |
| 05 | iP | 12 52 30.1 | C | | | | |
| 06 | iP | 10 10 17.3 | C | | | | |
| 07 | | Nil | | | | | |
| 08 | iP | 16 41 17.5 | C | | | | |
| 09 | | Time corrections uncertain | | | | | |
| 10 | eP | 04 31 09 | | | | | |
| 10 | iP | 14 45 15.8 | C | | | | |
| 11 | iP | 04 58 27.0 | C | | | | |
| 11 | iP | 13 39 32.8 | C | | | | |
| 11 | eP | 14 32 21 | | | | | |
| 12 | | Nil | | | | | |
| 13 | eP | 14 51 41 | | | | | |
| 13 | eP | 16 39 06 | | | | | |
| 13 | eP | 16 56 11 | | | | | |
| 13 | iP | 21 27 05.1 | C | | | | |

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|---|---|---|---|---|---|---|---|
| **KARRATHA (KAA)** | | | | | | | |
| August. | | | | | | | |
| 14 | iP | 00 23 48.5 | C | | | | |
| 14 | eP | 04 11 17 | | | | | |
| 14 | eP | 09 11 46 | | | | | |
| 15 | | Nil | | | | | |
| 16 | iP | 05 07 00.5 | D | | | | |
| 16 | iP | 19 02 55.1 | C | | | | |
| 17 | | Nil | | | | | |
| 18 | iP | 04 09 46.7 | C | | | | |
| 18 | iP | 10 47 55.0 | C | | | | |
| 18 | iP | 19 27 06.2 | C | | | | |
| 19 | iP | 08 37 04.9 | D | | | | |
| 19 | iP | 11 55 34.0 | C | | | | |
| 19 | iP | 12 07 19.0 | D | | | | |
| | eS | 08 54 | | | | | |
| 19 | iP | 13 15 43.4 | C | | | | |
| 19 | iP | 13 43 51.3 | D | | | | |
| 19 | iP | 22 27 33.1 | C | 1.0 | 160mu | 2.2 | |
| 19 | iP | 22 47 03.3 | C | | | | |
| 20 | ePKP | 21 55 55 | | | | | |
| 21 | eP | 10 31 51 | | | | | 1000km NW Karratha |
| 21 | eP | 10 32 14 | | | | | |
| | eS | 33 47 | | | | | |
| 21 | iP | 11 59 47.2 | C | | | | |
| 21 | iP | 20 45 04.6 | D | | | | |
| 22 | | Nil | | | | | |
| 23 | iP | 04 14 33.9 | C | | | | |
| 23 | eP | 18 30 50 | | | | | |
| | eS | 33 17 | | | | | |
| 24 | iP | 13 36 28.1 | D | | | | |
| 24 | iP | 15 55 09.0 | C | | | | |
| 25 | eP | 11 29 44 | | | | | |
| 26 | eP | 18 42 29 | | | | | |
| 27 | | Nil | | | | | |
| 28 | iP | 21 46 14.2 | D | | | | |
| 29 | iP | 03 41 10.5 | D | | | | |
| 30 | | No record | | | | | |
| 31 | | Nil | | | | | |
| **KUNUNURRA (KNA)** | | | | | | | |
| August. | | | | | | | |
| 01 | iP | 00 27 25.8 | C | | | | |
| 01 | iP | 01 08 28.1 | D | | | | |
| 01 | iP | 02 17 20.3 | D | | | | |
| 01 | eP | 12 32 17 | | | | | |
| 01 | iP | 12 [illegible] 4.7 | D | | | | |
| 01 | eP | 16 08 53.[illegible] | | | | | |
| 01 | iP | 16 45 37.6 | C | | | | |
| 01 | iP | 21 55 13.7 | C | | | | |
| 02 | iP | 00 25 21.3 | D | | | | |
| 02 | eP | 07 31 06 | | | | | |
| 02 | iP | 09 05 11.4 | C | | | | |
| 02 | iP | 09 57 14.4 | C | | | | |

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|---|---|---|---|---|---|---|
| KUNUNURRA (KNA) | Cont. | | | | | |
| August. | | | | | | |
| 02 | iP | 15 38 54.1 | C | | | |
| | eS | 40 24 | | | | |
| 02 | eP | 19 09 46 | | | | |
| 02 | iP | 19 29 11.0 | D | | | |
| 02 | iP | 20 15 17.0 | C | | | |
| 03 | oP | 04 45 45 | | | | |
| 04 | | No record | | | | |
| 05 | eP | 11 40 42 | | | | |
| 05 | iP | 11 49 45.0 | C | | | |
| 05 | eP | 12 23 29 | | | | |
| 05 | iP | 12 50 28.0 | D | | | |
| | eS | 51 56 | | | | |
| 05 | eP | 16 01 53 | | | | |
| 05 | eP | 18 21 21 | | | | |
| 05 | eP | 19 24 13 | | | | |
| 05 | eP | 20 22 38 | | | | |
| 05 | eP | 22 44 58 | | | | |
| 05 | iP | 23 00 30.5 | D | | | |
| 05 | eP | 23 21 01 | | | | |
| 06 | eP | 00 58 36 | | | | |
| 06 | eP | 03 54 29 | | | | |
| 06 | eP | 06 02 39 | | | | |
| 06 | iP | 07 54 06.0 | C | | | |
| | eS | 08 00 51 | | | | |
| 06 | eP | 09 22 55 | | | | |
| 06 | iP | 10 08 31.5 | D | | | |
| 06 | iP | 12 15 34.5 | D | | | |
| 06 | iP | 14 04 41.0 | D | | | |
| 06 | eP | 14 53 15 | | | | |
| 06 | eP | 15 08 26 | | | | |
| 06 | eP | 17 37 15 | | | | |
| 06 | iP | 18 49 01.8 | C | | | |
| 06 | iP | 23 00 29.7 | D | | | |
| 07 | iP | 05 04 11.5 | D | | | |
| 07 | iP | 07 00 22.2 | D | | | |
| 08 | iP | 16 39 18.3 | D | | | |
| 08 | iP | 16 39 20.2 | D | | | |
| 08 | eP | 20 18 26 | | | | |
| 08 | eP | 22 31 46 | | | | |
| 09 | iP | 01 43 38.6 | C | | | |
| 09 | eP | 03 07 27 | | | | |
| 09 | eP | 06 41 26 | | | | |
| 09 | iP | 08 24 30.2 | C | | | |
| 09 | iP | 12 17 39.2 | C | | | |
| 09 | iP | 12 51 35.0 | D | | | |
| 09 | iP | 15 26 05.1 | D | | | |
| 09 | eP | 20 07 01 | | | | |
| 09 | eP | 20 54 27 | | | | |
| 09 | iP | 21 54 38.1 | C | | | |
| 10 | eP | 11 39 11 | | | | |
| 10 | iP | 14 43 27.2 | C | | | |
| 10 | iP | 16 09 16.3 | D | | | |
| 10 | eP | 16 30 43 | | | | |
| 10 | iP | 17 53 28.5 | D | | | |

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|---|---|---|---|---|---|---|
| KUNUNURRA (KNA) Cont. | | | | | | |
| August. | | | | | | |
| 10 | eP | 21 55 32 | | | | |
| 11 | eP | 00 01 47 | | | | |
| 11 | iP | 04 57 13.3 | C | | | |
| 11 | iP | 10 35 07.7 | D | | | |
| 11 | iP | 13 39 24.7 | C | | | |
| 11 | iP | 14 28 09.4 | C | | | |
| 11 | eP | 14 32 26 | | | | |
| 11 | iP | 17 31 35.4 | C | | | |
| 11 | eP | 17 49 58 | | | | |
| 12 | eP | 04 25 00 | | | | |
| 12 | eP | 17 11 57 | | | | |
| 12 | eP | 22 53 50 | | | | |
| 13 | eP | 01 48 17 | | | | |
| 13 | eP | 14 51 01 | | | | |
| 13 | iP | 16 36 59.1 | D | | | |
| 13 | iP | 16 54 24.8 | | | | |
| 13 | iP | 18 11 57.3 | D | | | |
| | eS | 13 40 | | | | |
| 13 | iP | 20 34 55.9 | D | | | |
| 13 | eP | 21 25 18 | | | | |
| 13 | eP | 22 17 51 | | | | |
| 14 | iP | 00 22 18.4 | C | | | |
| 14 | eP | 03 56 47 | | | | |
| 14 | eP | 04 13 25 | | | | |
| 14 | iP | 05 00 42.8 | D | | | |
| 14 | eP | 08 23 27. | | | | |
| 14 | eP | 09 10 28 | | | | |
| 14 | eP | 16 04 04 | | | | |
| 14 | eP | 18 18 04 | | | | |
| 14 | eP | 18 57 12 | | | | |
| 14 | eP | 22 43 03 | | | | |
| 14 | iP | 22 52 42.3 | D | | | |
| 15 | iP | 13 07 08.1 | C | | | |
| 15 | eP | 15 11 54 | | | | |
| 15 | eP | 16 03 55 | | | | |
| 16 | eP | 05 06 57 | | | | |
| 16 | iP | 07 02 44.8 | C | | | |
| 16 | iP | 10 33 18.2 | D | | | |
| 16 | iP | 15 51 09.4 | D | | | |
| 16 | iP | 19 02 51.3 | C | | | |
| 16 | iP | 22 46 29.7 | C | | | |
| 17 | eP | 04 06 46 | | | | |
| 17 | iP | 09 45 11.7 | C | | | |
| 17 | eP | 15 55 03 | | | | |
| 17 | eP | 17 15 58 | | | | |
| 17 | eP | 17 29 05 | | | | |
| 17 | eP | 18 54 02 | | | | |
| 17 | eP | 20 08 18 | | | | |
| 17 | iP | 23 56 10.9 | D | | | |
| 18 | iP | 00 13 45.5 | C | | | |
| 18 | iP | 00 43 42.2 | C | | | |
| 18 | iP | 04 06 44.3 | D | | | |
| | eS | 08 10 | | | | |
| 18 | eP | 13 17 44 | | | | |

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|---|---|---|---|---|---|---|
| KUNUNURRA (KNA) Cont. | | | | | | |
| August. | | | | | | |
| 18 | iP | 16 44 10.8 | C | | | |
| | eS | 45 43 | | | | |
| 18 | iP | 19 26 52.8 | C | | | |
| 18 | eP | 21 48 50 | | | | |
| 19 | eP | 08 36 26 | | | | |
| 19 | iP | 11 53 59.4 | D | | | |
| 19 | iP | 13 13 58.5 | D | | | |
| 19 | iP | 22 26 41.5 | C | | | |
| 19 | eP | 22 45 50 | | | | |
| 20 | eP | 02 05 58 | | | | |
| 20 | eP | 23 09 13 | | | | |
| 21 | iP | 16 16 24.3 | D | | | |
| 21 | eP | 19 03 19 | | | | |
| 21 | iP | 20 43 17.8 | D | | | |
| 21 | eP | 23 01 46 | | | | |
| 22 | eP | 06 08 13 | | | | |
| 22 | iP | 07 18 57.3 | D | | | |
| 23 | iP | 04 12 39.0 | D | | | |
| 24 | iP | 13 34 42.8 | D | | | |
| 24 | iP | 15 53 07.9 | D | | | |
| | eS | 54 47 | | | | |
| 25 | iP | 10 08 49.1 | C | | | |
| 25 | iP | 20 01 28.3 | C | | | |
| | eS | 02 52 | | | | |
| 25 | iP | 23 52 18.6 | D | | | |
| 26 | eP | 02 03 20 | | | | |
| 26 | eP | 03 16 13 | | | | |
| 26 | iP | 09 41 30.3 | D | | | |
| 26 | eP | 12 11 40 | | | | |
| 26 | eP | 14 38 48 | | | | |
| 26 | iP | 17 41 05.3 | D | | | |
| 26 | iP | 22 03 25.6 | D | | | |
| | eS | 04 54 | | | | |
| 26 | eP | 23 46 56 | | | | |
| 27 | eP | 01 59 49 | | | | |
| | eS | 02 02 42 | | | | |
| 27 | iP | 03 51 30.9 | C | | | |
| 27 | eP | 15 00 15 | | | | |
| 27 | eP | 15 25 53 | | | | |
| 27 | iP | 23 47 21.7 | C | | | |
| | eS | 49 07 | | | | |
| 28 | iP | 01 17 45.0 | C | | | |
| | iS | 19 24.9 | | | | |
| 28 | iP | 04 18 16.2 | D | | | |
| 28 | iP | 16 05 51.7 | D | | | |
| 28 | iP | 21 44 25.9 | C | | | |
| 29 | iP | 00 49 34.8 | C | | | |
| 29 | iP | 03 40 06.2 | D | | | |
| 29 | iP | 08 46 29.9 | C | | | |
| 29 | iP | 09 34 51.6 | C | | | |
| 30 | iP | 16 03 29 0 | C | | | |
| 30 | iP | 17 24 09.9 | C | | | |
| 30 | iP | 21 19 52.7 | C | | | |
| 31 | iP | 01 32 26.1 | C | | | |
| 31 | iP | 05 15 23.5 | C | | | |
| 31 | iP | 08 18 28.8 | C | | | |
| 31 | iP | 13 44 08.8 | D | | | |
| | eS | 45 35 | | | | |

P.J. Gregson,
Observer-in-Charge.

International Seismological Centre

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# COMMONWEALTH OF AUSTRALIA

## Department of National Development

## Bureau of Mineral Resources, Geology and Geophysics

## MUNDARING GEOPHYSICAL OBSERVATORY

## SEP & OCT 1971

**MUNDARING (MUN)**

Latitude: 31°58.7'S Longitude: 116°12.5'E
Height: 253 Metres
Foundation: Precambrian granite

**KALGOORLIE (KLG)**

Latitude: 30°47' 01.2"S Longitude: 121°27' 28.9"E
Height: 350 Metres
Foundation Alluvium-covered Precambrian basic metasediments

**MEEKATHARRA (MEK)**

Latitude: 26°36'46"S Longitude: 118°32'42"E
Height: 515 Metres
Foundation: Archean Sedimentary rock

**KARRATHA (KAA)**

Latitude: 20°46.6'S Longitude: 116°51.5'E
Height: 15 Metres
Foundation: Precambrian volcanics

**KUNUNURRA (KNA)**

Latitude: 50°45.0'S Longitude: 128°46.0'E
Height: 55 Metres
Foundation: Unweathered upper Devonian sandstone.

All correspondence relating to these seismographs should be addressed to:-

Observer-in-Charge,
Geophysical Observatory,
MUNDARING. 6073

# INSTRUMENTATION

International Seismological Centre

## MUNDARING

World wide standard seismograph system No. 44

| | | |
|---|---|---|
| Nominal magnification | S,P-Z, N, E | 25000 at 1 second |
| | LP-Z | 750 at 15 seconds |
| | LP-N, E | 375 at 15 seconds |

| | Component | Seismometer | Galvanometer | Magnification |
|---|---|---|---|---|
| KALGOORLIE | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 15,800 at 1 second |
| | SP-SW | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.25 | 16,500 at 1 second |
| | SP-NW | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.25 | 16,500 at 1 second |
| MEEKATHARRA | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 9,000 at 1 second |
| KARRATHA | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 31,000 at 1 second |
| KUNUNURRA | SP- Z | Willmore Mk1 To = 1.0 | Willmore Tg = 0.25 | 20,000 at 1 second |

Timemarks for all stations other than Mundaring are normally supplied from an EMI crystal clock controlled by VNG or ABC radio pips.

Magnification curves are available on request.

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|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** | | | | | | | |
| September. | | | | | | | |
| 01 | iP | 00 44 38.4 | C | | | | |
| 01 | iP | 12 38 00.0 | C | 1.0 | 64mu | 1.8 | |
| 02 | | Nil | | | | | |
| 03 | iP | 02 04 17.0 | C | 0.5 | 36mu | 1.9 | |
| 04 | iP | 13 02 57.6 | C | | | | |
| 04 | eP | 16 53 46 | | | | | |
| 05 | eP | 03 08 12 | | | | | |
| 05 | eP | 18 47 42 | | | | | |
| 05 | iP | 19 46 03.4 | C | LZ 20.0 | 17 u | | |
| | | | | LN 20.0 | 6 u | | |
| | | | | LE 20.0 | 11 u | | |
| 06 | iP | 13 49 27.3 | C | 1.0 | 160mu | 2.2 | |
| 06 | iP | 20 13 28.6 | D | | | | |
| 06 | eP | 23 42 46 | | | | | |
| 07 | | Nil | | | | | |
| 08 | eP | 02 22 27 | | | | | Mt. Newman blast |
| 08 | eP | 10 36 45 | | | | | |
| 08 | iP | 12 00 42.1 | C | | | | |
| 08 | iP | 17 12 08.1 | D | | | | |
| 08 | eP | 19 52 26 | | | | | |
| 08 | iP | 22 14 51.9 | C | 0.8 | 45mu | 1.8 | |
| | iX | 15 27.2 | | | | | |
| | eX | 20 23 | | | | | |
| 09 | ePKP | 04 17 31 | | | | | |
| 10 | iP | 04 34 24.9 | D | | | | Meckering ML = 2.2 |
| | iS | 34 34.4 | | | | | |
| 10 | iP | 05 54 45.8 | D | | | | |
| 10 | iP | 06 39 13.0 | C | | | | |
| 10 | eP | 16 36 51 | | | | | 520km N Eucla mb= 3.9 |
| | eS | 38 47 | | | | | |
| 11 | | Nil | | | | | |
| 12 | iP | 08 16 32.6 | C | | | | |
| 12 | eP | 19 17 22 | | | | | |
| 12 | eP | 21 02 02 | | | | | |
| 13 | eP | 22 01 05 | | | | | 190km NW Dampier mb= 4.4 |
| | eS | 03 16 | | | | | |
| 13 | iP | 23 11 13.3 | C | | | | |
| 14 | iP | 03 11 47.8 | C | 0.8 | 45mu | 1.8 | |
| 14 | eP | 03 20 46 | | | | | |
| 14 | iP | 05 28 15.6 | D | 1.2 | 660mu | 2.7 | |
| | | | | LZ 20.0 | 43 u | | |
| | | | | LN 20.0 | 17 u | | |
| | | | | LE 20.0 | 26 u | | |
| 14 | iP | 14 18 17.0 | D | | | | |
| 15 | iP | 15 06 49.0 | D | | | | |
| 15 | iP | 23 03 57.0 | D | | | | |
| 16 | eP | 01 46 01 | | | | | Mt. Newman blast. |
| 16 | iP | 06 28 30.5 | D | 0.8 | 690mu | 2.9 | |
| | eX | 34 14 | | | | | |
| 17 | | Nil | | | | | |
| 18 | eP | 13 54 29 | | | | | 85km E Laverton |
| | eS | 55 40 | | | | | |
| 19 | iP | 10 09 25.6 | C | | | | |
| 19 | iP | 17 14 35.6 | C | | | | Nauson |
| | iS | 14 46.1 | | | | | ML = 2.4 |

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|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** Cont. | | | | | | | |
| September. | | | | | | | |
| 19 | iP | 13 34 41.4 | C | | | | Mawson |
| | iS | 34 52.3 | | | | | ML = 2.4 |
| 20 | iP | 19 59 11.1 | D | 0.5 | 30mu | 1.8 | Calingiri |
| | iS | 59 22.6 | | | | | ML = 2.3 |
| 20 | iP | 20 23 25.0 | C | | | | |
| 20 | iP | 22 26 46.5 | D | 0.4 | 26mu | 1.8 | Calingiri |
| | iS | 26 58.0 | | | | | ML = 2.5 |
| 21 | eP | 06 03 08 | | | | | Mt. Newman |
| 21 | eP | 14 17 51 | | | | | blast |
| 22 | oP | 07 33 30 | | | | | |
| 22 | eP | 14 34 01 | | | | | |
| 23 | | Nil | | | | | |
| 24 | | Nil | | | | | |
| 25 | iP | 04 43 22.5 | C | 1.0 | 1360mu | 3.1 | |
| 25 | iP | 10 53 16.4 | D | | | | |
| 26 | iP | 03 27 22.4 | C | 0.6 | 38mu | 1.8 | |
| 26 | iP | 11 15 22.2 | C | 1.0 | 140mu | 2.2 | |
| 26 | iP | 15 32 17.4 | D | 0.6 | 63mu | 2.0 | |
| 26 | iP | 16 39 32.0 | C | | | | |
| 27 | iP | 06 18 34.0 | C | 0.9 | 280mu | 2.5 | |
| 27 | eP | 15 03 18 | | | | | |
| 27 | eP | 17 37 04 | | | | | |
| 27 | eP | 22 27 53 | | | | | |
| | | | LZ | 20.0 | 77 u | | |
| | | | LN | 20.0 | 31 u | | |
| | | | LE | 20.0 | 60 u | | |
| 28 | eP | 04 26 39 | | | | | 180km S |
| | | | | | | | Onslow |
| 28 | iP | 05 11 02.0 | | | | | mb= 4.1 |
| | iS | 11 13.8 | | | | | Goomalling |
| 28 | eP | 19 53 26 | | | | | ML = 2.6 |
| 29 | | Nil | | | | | |
| 30 | eP | 09 17 58 | | | | | |
| | eS | 19 32 | | | | | Mt. Newman |
| 30 | iP | 11 22 02.2 | C | | | | blast |
| | eX | 27 48 | | | | | |
| **KALGOORLIE (KLG)** | | | | | | | |
| September. | | | | | | | |
| 01 | iP | 12 37 23.6 | C | 1.0 | 93mu | 2.0 | |
| 01 | eP | 20 24 59 | | | | | |
| 01 | eP | 22 54 01 | | | | | |
| 02 | iP | 18 37 45.5 | D | | | | |
| 02 | iP | 23 57 28.2 | D | | | | |
| 03 | iP | 02 03 58.2 | C | | | | |
| 04 | iP | 13 02 30.4 | C | | | | |
| 04 | iP | 16 53 13.0 | D | | | | |
| 04 | iP | 17 19 47.0 | C | 1.0 | 100mu | 2.0 | |
| 05 | iP | 03 07 36.0 | D | | | | |
| 05 | iP | 18 47 29.4 | D | | | | |
| 05 | iP | 19 45 50.0 | C | | | | |
| 06 | iP | 13 49 14.4 | C | 1.1 | 230mu | 2.3 | |
| 07 | | Nil | | | | | |
| 08 | eP | 02 22 07 | | | | | Mt. Newman |
| | | | | | | | blast |

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|---|---|---|---|---|---|---|---|
| KALGOORLIE (KLG) Cont. | | | | | | | |
| September. | | | | | | | |
| 08 | iP | 07 36 22.0 | D | | | | |
| 08 | iP | 10 36 13.2 | C | | | | |
| 08 | iP | 12 00 29.0 | C | | | | |
| 08 | iP | 17 11 54.0 | C | | | | |
| 08 | iP | 19 34 17.3 | C | | | | |
| 08 | iP | 22 14 23.9 | C | | | | |
| 09 | iP | 23 13 14.6 | D | | | | |
| 10 | iP | 05 54 33.0 | D | | | | |
| 10 | iP | 06 38 43.0 | D | | | | |
| 10 | iP | 14 01 10.3 | D | 0.7 | 57mu | 1.9 | |
| | eP | 16 35 57 | | | | | 520km N Kucla mb= 4.3 |
| | eS | 37 05 | | | | | |
| 11 | iP | 02 45 45.6 | C | | | | |
| 12 | iP | 08 16 02.7 | C | | | | |
| 12 | eP | 19 16 58 | | | | | |
| 12 | eP | 21 01 24 | | | | | |
| 13 | eP | 22 00 56 | | | | | |
| | eS | 03 03 | | | | | 190km NW Dampier |
| 13 | iP | 23 11 26.1 | C | | | | |
| 14 | iP | 03 11 09.9 | D | | | | |
| 14 | iP | 05 27 38.6 | D | | | | |
| 14 | iP | 12 29 52.9 | D | 1.0 | 497mu | 2.7 | |
| 15 | eP | 13 52 22 | | | | | |
| 15 | iP | 15 06 33.3 | C | | | | |
| 15 | iP | 23 03 30.3 | D | | | | |
| 16 | eP | 01 47 01 | | | | | |
| 16 | iP | 06 28 03.1 | D | 1.0 | 1550mu | 3.2 | |
| 17 | | Nil | | | | | |
| 18 | iP | 13 53 30.2 | | | | | |
| | eS | 54 03 | | | | | 85km E Laverton ML = 3.3 |
| 19 | iP | 10 08 54.3 | D | | | | |
| 19 | iP | 15 44 13.8 | C | | | | |
| 20 | iP | 19 59 58.3 | D | | | | |
| | eS | 20 01 44 | | | | | Calingiri ML = 3.1 |
| 20 | eP | 22 27 34 | | | | | Calingiri ML = 3.0 |
| | eS | 28 18 | | | | | Mt. Newman blast. |
| 21 | eP | 06 01 55 | | | | | |
| 21 | eP | 14 17 14. | | | | | |
| 22 | iP | 13 46 11.0 | C | | | | |
| 22 | iP | 14 33 50.0 | D | | | | |
| 22 | eP | 17 34 55 | | | | | |
| 23 | | Nil | | | | | |
| 24 | | Nil | | | | | |
| 25 | iP | 04 42 45.1 | C | 0.9 | 2130mu | 3.5 | |
| 25 | iP | 09 43 22.1 | C | | | | |
| 25 | eP | 18 07 59 | | | | | |
| 25 | iP | 19 43 04.8 | D | | | | |
| 26 | iP | 03 27 04.3 | C | 0.6 | 58mu | 2.0 | |
| 26 | iP | 11 15 34.6 | C | 1.0 | 155mu | 2.2 | |
| 26 | iP | 15 31 59.2 | D | | | | |
| 26 | iP | 16 39 15.0 | C | | | | |
| 26 | iP | 22 10 05.0 | D | | | | |
| 27 | iP | 06 18 34.0 | C | 1.0 | 217mu | 2.3 | |
| 27 | iP | 12 19 38.8 | D | | | | |

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| **KALGOORLIE (KLG)** Cont. | | | | | | | |
| September. | | | | | | | |
| 27 | eP | 15 02 43 | | | | | |
| 27 | eP | 19 13 38 | | | | | |
| 27 | iP | 22 27 13.6 | C | | | | |
| 28 | eP | 05 11 46 | | | | | Goomalling Local |
| 28 | eP | 14 11 16 | | | | | |
| 28 | iP | 19 52 48.2 | D | | | | |
| 28 | eP | 22 30 14 | | | | | |
| 29 | iP | 13 56 45.8 | C | | | | |
| 30 | eP | 09 17 50 | | | | | |
| | eS | 19 17 | | | | | Mt. Newman blast |
| 30 | iP | 11 21 33.7 | C | | | | |
| **MEEKATHARRA (MEK)** | | | | | | | |
| September. | | | | | | | |
| 01 | iP | 12 37 23.9 | C | | | | |
| 01 | iP | 20 25 00.0 | C | | | | |
| 01 | iP | 22 54 02.7 | D | | | | |
| 02 | eP | 06 41 40 | | | | | |
| 02 | iP | 14 01 54.4 | C | | | | |
| 02 | iP | 18 37 23.2 | C | | | | |
| 02 | eP | 23 57 52 | | | | | |
| 03 | iP | 02 03 27.4 | C | | | | |
| 04 | eP | 13 02 07 | | | | | |
| 04 | iP | 16 52 59.7 | C | | | | |
| 05 | iP | 03 07 37.6 | C | 0.6 | 90mu | 2.2 | |
| 05 | eP | 18 47 11 | | | | | |
| 05 | iP | 19 45 31.7 | C | | | | |
| 06 | eP | 06 57 43 | | | | | |
| 06 | iP | 13 48 55.8 | C | | | | |
| 06 | iP | 23 42 05.6 | D | | | | |
| 07 | | Nil | | | | | |
| 08 | eP | 02 21 12 | | | | | Mt. Newman blast. |
| 08 | iP | 07 36 02.5 | D | | | | |
| 08 | iP | 09 57 35.5 | D | | | | |
| 08 | iP | 10 35 58.8 | C | | | | |
| 08 | iP | 12 00 10.3 | C | | | | |
| 08 | iP | 17 11 36.0 | D | | | | |
| 08 | eP | 19 51 35 | | | | | |
| | eS | 51 49 | | | | | Local ML = 1.3 |
| 08 | iP | 22 14 00.2 | D | | | | |
| | eX | 18 17 | | | | | |
| 09 | iP | 23 12 59.7 | C | | | | |
| 10 | iP | 05 53 56.8 | C | 0.6 | 270mu | 2.7 | |
| 10 | iP | 06 39 04.5 | D | | | | |
| 10 | iP | 14 01 29.9 | D | | | | |
| 10 | eP | 16 36 12 | | | | | 520km N Eucla mb= 4.2 |
| | eS | 37 37 | | | | | |
| 11 | | Nil | | | | | |
| 12 | iP | 08 16 29.6 | C | 0.6 | 65mu | 2.1 | |
| 12 | iP | 20 22 07.9 | D | | | | |
| 12 | iP | 21 01 21.9 | C | | | | |
| 13 | eP | 04 14 54 | | | | | Mt. Tom Price blast. |

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| **MEEKATHARRA (MEK)** Cont. | | | | | | | |
| September. | | | | | | | |
| 13 | eP | 21 59 53 | | | | | |
| | eS | 22 01 17 | | | | | 190km NW Dampier m = 4.6 |
| 13 | iP | 23 11 41.3 | C | | | | |
| 14 | iP | 03 11 14.8 | D | | | | |
| 14 | eP | 03 20 14 | | | | | |
| 14 | iP | 05 27 39.9 | D | 0.5 | 480mu | 3.0 | |
| 14 | iP | 06 01 14.6 | C | | | | |
| 14 | eP | 06 45 12 | | | | | |
| 14 | iP | 09 37 13.7 | D | | | | |
| 14 | iP | 12 29 54.0 | D | | | | |
| 14 | eP | 17 23 04 | | | | | |
| 14 | iP | 21 12 47.4 | D | | | | |
| 15 | iP | 13 51 51.9 | D | | | | |
| 15 | eP | 15 06 13 | | | | | |
| 15 | iP | 23 03 06.4 | D | | | | |
| 16 | iP | 01 44 45.6 | C | | | | |
| | eS | 45 27 | | | | | Mt. Newman blast. |
| 16 | iP | 06 27 39.6 | C | 0.8 | 330mu | 2.6 | |
| | eS | 31 46 | | | | | |
| 17 | | Nil | | | | | |
| 18 | iP | 13 53 54.7 | C | | | | |
| | iS | 54 42.3 | | | | | 85km E Laverton mb= 4.1 |
| 19 | eP | 10 09 16 | | | | | |
| 20 | eP | 20 00 05 | | | | | |
| | eS | 00 57 | | | | | Calingiri ML = 3.0 |
| 20 | eP | 22 27 41 | | | | | |
| | eS | 28 33 | | | | | Calingiri ML = 3.0 |
| 21 | iP | 06 01 52.5 | C | | | | Mt. Newman blast. |
| 21 | eP | 08 54 02 | | | | | |
| 21 | eP | 14 17 03 | | | | | |
| 22 | iP | 07 33 09.6 | C | | | | |
| 22 | iP | 13 46 12.0 | C | | | | |
| 22 | iP | 17 19 23.4 | C | 0.3 | 12mu | 1.6 | |
| | eS | 21 56 | | | | | 600km NNW Broome mb = 4.5 |
| 23 | | Nil | | | | | |
| 24 | | Nil | | | | | |
| 25 | iP | 04 42 43.2 | C | 0.6 | 2340mu | 3.6 | |
| 25 | iP | 09 42 40.0 | C | | | | |
| | eS | 45 59 | | | | | |
| 25 | iP | 10 52 25.5 | D | 0.4 | 21mu | 1.7 | |
| 25 | eP | 18 07 48 | | | | | |
| 26 | iP | 03 26 33.6 | C | | | | |
| 26 | iP | 11 15 48.9 | C | | | | |
| 26 | iP | 15 31 28.0 | D | 0.6 | 252mu | 2.6 | |
| 26 | iP | 16 38 41.6 | C | | | | |
| 27 | iP | 06 14 18.3 | C | | | | |
| 27 | iP | 06 18 25.3 | C | | | | |
| 27 | eP | 15 02 37 | | | | | |
| 27 | iP | 15 47 43.5 | C | | | | |
| 27 | eP | 15 49 43 | | | | | |
| 27 | iP | 19 13 29.0 | D | | | | |
| 27 | iP | 22 27 09.0 | C | | | | |

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|---|---|---|---|---|---|---|---|
| **MEEKATHARRA (MEK)** Cont. | | | | | | | |
| September. | | | | | | | |
| 28 | eP | 04 25 37 | | | | | 180km S Onslow mb= 4.1 Goomalling ML = 2.8 |
| 28 | iP | 05 11 55.8 | D | | | | |
| | eS | 12 48 | | | | | |
| 28 | iP | 10 39 01.5 | C | | | | |
| 2. | eP | 14 10 45 | | | | | |
| 28 | iP | 19 52 55.1 | D | | | | |
| 28 | eP | 22 30 15 | | | | | |
| 29 | iP | 13 56 36.6 | C | | | | |
| 30 | eP | 09 16 46 | | | | | Mt. Newman blast. |
| | eS | 17 25 | | | | | |
| 30 | iP | 11 21 11.0 | D | | | | |
| 30 | eP | 21 41 07 | | | | | |
| **KARRATHA (KAA)** | | | | | | | |
| September. | | | | | | | |
| 01 | iP | 12 37 16.0 | C | 1.0 | 96mu | 2.0 | |
| 01 | iP | 20 24 54.2 | D | | | | |
| 01 | eP | 22 53 56 | | | | | |
| 02 | iP | 18 37 00.3 | C | | | | |
| 02 | iP | 23 58 12.7 | D | | | | |
| 03 | | Nil | | | | | |
| 04 | iP | 13 01 30.0 | D | | | | |
| 04 | iP | 16 52 36.2 | D | | | | |
| 05 | iP | 03 07 30.4 | D | | | | |
| 05 | iP | 18 46 40.0 | C | 0.8 | 112mu | 2.1 | |
| 05 | iP | 19 45 01.2 | C | | | | |
| 06 | iP | 13 48 26.0 | C | | | | |
| 06 | eP | 20 13 37 | | | | | |
| 07 | | Nil | | | | | |
| 08 | eP | 02 21 14 | | | | | Mt. Newman blast. |
| 08 | eP | 10 35 25 | | | | | |
| 08 | iP | 11 59 32.9 | C | | | | |
| 08 | iP | 17 11 00.0 | D | | | | |
| 08 | iP | 22 13 16.0 | C | | | | |
| | eX | 16 41 | | | | | |
| 09-11 | | Nil | | | | | |
| 12 | eP | 08 16 50 | | | | | |
| 13 | iP | 04 14 30.4 | D | | | | Mt. Tom Price blast 190km NW Dampier ML = 2.7 |
| | iS | 14 58.0 | | | | | |
| 13 | iP | 21 58 37.0 | C | | | | |
| | iS | 58 59.8 | | | | | |
| 14 | iP | 03 11 12.5 | C | 0.8 | 42mu | 1.7 | |
| 14 | iP | 05 27 33.2 | D | 1.0 | 420mu | 2.7 | |
| 14 | iP | 12 29 47.2 | D | | | | |
| 15 | iP | 13 51 07.0 | C | | | | |
| 15 | iP | 15 05 44.8 | C | | | | |
| 15 | iP | 23 02 32.8 | C | | | | |
| 16 | eP | 01 44 48 | | | | | |
| | eS | 45 28 | | | | | Mt. Newman blast |
| 16 | eP | 06 27 03 | | | | | |
| | eS | 30 36 | | | | | |
| 17-20 | | Nil | | | | | |

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|---|---|---|---|---|---|---|---|
| **KARRATHA (KAA)** | | | | | | | |
| September. | | | | | | | |
| 21 | iP | 14 16 41.0 | C | | | | |
| 22-24 | | Nil | | | | | |
| 25 | eP | 04 42 29 | | | | | |
| 26 | iP | 15 30 42.7 | D | 0.8 | 140mu | 2.2 | |
| 26 | iP | 16 37 54.9 | C | | | | |
| 27 | | Nil | | | | | |
| 28 | eP | 04 25 05 | | | | | 180km S Onslow ML = 3.0 |
| 28 | iP | 14 10 00.6 | D | | | | |
| 28 | iP | 19 52 55.5 | D | | | | |
| 28 | iP | 22 30 09.0 | C | | | | |
| 29 | | Nil | | | | | |
| 30 | eP | 09 16 30 | | | | | Mt. Newman blast. |
| 30 | iP | 11 20 34.2 | C | | | | |
| **KUNUNURRA (KNA)** | | | | | | | |
| September. | | | | | | | |
| 01 | iP | 12 35 28.8 | C | | | | |
| 01 | iP | 20 23 20.1 | D | | | | |
| 01 | iP | 22 52 20.3 | D | | | | |
| 01 | iP | 23 09 27.7 | C | | | | |
| 02 | iP | 06 40 25.5 | D | | | | |
| 02 | iP | 23 57 07.4 | D | | | | |
| 03 | iP | 02 01 41.6 | C | | | | |
| 03 | iP | 15 56 37.7 | C | | | | |
| 04 | iP | 10 49 17.2 | C | | | | |
| 05 | iP | 18 45 51.3 | C | | | | |
| 05 | iP | 19 24 14.3 | C | | | | |
| 05 | iP | 19 44 14.4 | D | | | | |
| 06 | iP | 02 26 41.7 | C | | | | |
| 06 | eP | 06 56 24 | | | | | |
| 06 | iP | 13 47 37.0 | C | | | | |
| 06 | iP | 13 55 32.4 | D | | | | |
| 06 | iP | 20 12 28.5 | D | | | | |
| 06 | iP | 23 39 58.4 | C | | | | |
| | iS | 43 32.9 | | | | | |
| 07-30 | | No records. | | | | | |

P.J. Gregson,
Observer-in-Charge.

| Date 1971 | Phase | G.M.T. | Dir. | | Per. (sec.) | Amp. | LogA/T | |
|---|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** | | | | | | | | |
| October. | | | | | | | | |
| 01 | eP | 05 25 00 | | | | | | |
| 02 | eP | 14 59 46 | | | | | | |
| 02 | iP | 15 53 30.2 | D | | | | | Meokering |
| | iS | 53 40.1 | | | | | | ML = 2.6 |
| 03 | iP | 05 15 14.8 | C | | | | | Meokering |
| | iS | 15 23.6 | | | | | | ML = 2.5 |
| 03 | iP | 08 44 08.2 | C | LZ | 20.0 | 7 u | | |
| | | | | LN | 20.0 | 3 u | | |
| | | | | LE | 20.0 | 5 u | | |
| 03 | iP | 13 34 02.9 | D | LZ | 20.0 | 120 u | | |
| | | | | LN | 20.0 | 60 u | | |
| | | | | LE | 20.0 | 75 u | | |
| 04 | eP | 01 38 36 | | | | | | |
| 05 | iP | 07 06 16.6 | D | | | | | |
| 06 | iP | 07 24 43.8 | D | | | | | |
| 07 | | Nil | | | | | | |
| 08 | iP | 16 14 01.2 | D | | 0.6 | 162mu | 2.4 | |
| 09 | eP | 07 42 53 | | | | | | |
| 09 | iP | 13 25 12.3 | C | | 0.9 | 70mu | 1.9 | |
| 10 | eP | 00 06 10 | | | | | | |
| 10 | eP | 13 59 50 | | | | | | |
| 10 | iP | 18 35 06.3 | C | LZ | 20.0 | 4 u | | |
| 11 | | Nil | | | | | | |
| 12 | iPKP | 10 04 48.4 | D | | 0.9 | 192mu | 2.3 | |
| 13 | | Nil | | | | | | |
| 14 | ePKP | 07 19 02 | | | | | | |
| 14 | eP | 13 05 11 | | | | | | |
| 14 | eP | 22 48 24 | | LZ | 20.0 | 16 u | | |
| | | | | LN | 20.0 | 10 u | | |
| | | | | LE | 20.0 | 8 u | | |
| 15 | ePKP | 22 18 23 | | | | | | |
| 16 | iP | 05 23 26.8 | C | | 0.9 | 245mu | 2.4 | |
| 16 | eP | 09 17 53 | | | | | | Tom Price blast |
| 16 | eP | 22 00 34 | | | | | | |
| 17 | eP | 17 11 42 | | | | | | |
| 17 | iP | 18 11 26.2 | D | | 1.0 | 40mu | 1.6 | |
| 18 | eP | 03 54 03 | | | | | | |
| 18 | eP | 10 08 17 | | | | | | |
| 18 | iP | 12 39 24.8 | C | | | | | |
| 18 | iP | 13 04 22.1 | D | | 1.0 | 160mu | 2.2 | |
| | | | | LZ | 20.0 | 20 u | | |
| | | | | LN | 20.0 | 12 u | | |
| | | | | LE | 20.0 | 11 u | | |
| 19 | iP | 00 52 48.1 | C | | | | | |
| | iS | 53 00.9 | | | | | | Calingiri |
| 20 | iP | 01 26 21.9 | D | | | | | ML = 2.5 |
| 20 | eP | 08 49 40 | | | | | | |
| 20 | eP | 13 44 02 | | | | | | |
| 20 | iP | 14 33 48.5 | C | | | | | |
| 20 | iP | 20 32 52.5 | C | | | | | |
| 21 | | Nil | | | | | | |
| 22 | iP | 18 42 09.8 | C | | | | | |
| 22 | iP | 20 48 52.0 | C | | 0.7 | 54mu | 1.9 | |
| 22 | iP | 22 49 32.0 | C | | 0.8 | 50mu | 1.8 | |

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|---|---|---|---|---|---|---|---|---|
| MUNDARING (MUN) Cont. | | | | | | | | |
| October. | | | | | | | | |
| 23 | iP | 01 47 29.2 | D | LZ | 20.0 | 86 u | | |
| | | | | LN | 20.0 | 46 u | | |
| | | | | LE | 20.0 | 40 u | | |
| 23 | iP | 19 24 02.0 | D | | 0.5 | 13mu | 1.4 | Calingiri |
| | iS | 24 13.3 | | | | | | ML = 2.1 |
| 23 | eP | 20 45 10 | | | | | | |
| 23 | iP | 22 42 26.8 | C | | | | | |
| | eS | 50 00 | | | | | | |
| 23 | iP | 23 13 53.0 | C | | | | | |
| 24 | iP | 01 46 26.4 | D | LZ | 20.0 | 10 u | | |
| | | | | LN | 20.0 | 20 u | | |
| | | | | LE | 20.0 | 17 u | | |
| 24 | eP | 02 16 09 | | | | | | |
| 24 | eP | 02 29 59 | | | | | | |
| 24 | iP | 22 30 51.6 | D | | 0.9 | 50mu | 1.7 | |
| 25 | iP | 03 55 26.5 | D | | | | | |
| 26 | iP | 19 14 02.5 | D | | | | | |
| 26 | iP | 23 46 30.8 | D | | | | | |
| 27 | iP | 09 36 03.9 | D | | 1.0 | 84mu | 1.9 | |
| 27 | iP | 18 07 21.9 | C | | 1.0 | 400mu | 2.6 | |
| | eS | 14 25 | | LZ | 20.0 | 230 u | | |
| | | | | LN | 20.0 | 300 u | | |
| | | | | LE | 20.0 | 400 u | | |
| 28 | eP | 01 02 30 | | | | | | |
| 28 | iP | 02 35 29.9 | D | | | | | |
| 28 | iP | 09 21 47.3 | D | | | | | Meckering |
| | iS | 21 57.4 | | | | | | ML = 3.1 |
| 28 | eP | 10 17 39 | | | | | | |
| 28 | iP | 13 43 26.0 | C | | | | | |
| 28 | iP | 14 29 17.3 | C | | | | | |
| 28 | iP | 15 21 35.0 | C | LZ | 20.0 | 214 u | | |
| | | | | LN | 20.0 | 109 u | | |
| | | | | LE | 20.0 | 191 u | | |
| 28 | iP | 18 08 48.2 | D | | | | | |
| 28 | iP | 18 49 51.1 | D | | | | | |
| 28 | iP | 19 55 12.2 | D | | | | | |
| 28 | eP | 20 05 51 | | | | | | |
| 28 | iP | 21 15 49.8 | C | | | | | |
| 29 | eP | 00 52 29 | | | | | | |
| 29 | eP | 10 29 16 | | | | | | |
| 29 | iP | 14 19 08.8 | D | | | | | |
| 29 | iP | 14 22 24.0 | D | | | | | |
| 29 | iP | 20 13 44.3 | C | | | | | |
| 30 | iP | 14 26 34.9 | D | | | | | |
| 30 | iP | 16 39 57.3 | C | | | | | |
| 30 | iP | 17 16 01.2 | C | | | | | |
| 30 | iP | 20 58 16.0 | C | | | | | |
| 31 | iP | 12 18 58.0 | D | | | | | |

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| Day | Phase | h m s | Obs. | Amp. (mμ) | Amp. | Per. |
|---|---|---|---|---|---|---|
| KALGOORLIE (KLG) | | | | | | |
| October. | | | | | | |
| 01 | eP | 05 24 23 | | | | |
| 02 | eP | 15 54 25 | | | | |
| 03 | eP | 08 43 32 | | | | |
| 03 | eP | 13 33 23 | | | | |
| 04 | iP | 01 37 59.2 | D | | | |
| 04 | iP | 11 15 39.0 | C | | | |
| 05 | | Nil | | | | |
| 06 | iP | 07 24 15.9 | D | | | |
| 07 | | Nil | | | | |
| 08 | eP | 14 22 01 | | | | |
| 08 | iP | 16 13 30.6 | D | 0.7 | 237mu | 2.6 |
| 09 | iP | 13 25 01.9 | C | 0.8 | 244mu | 2.5 |
| 10 | eP | 18 50 13 | | | | |
| 11 | iP | 10 27 14.5 | D | | | |
| 12 | iPKP | 10 04 38.5 | D | 1.0 | 310mu | 2.5 |
| 13 | | Nil | | | | |
| 14 | eP | 13 05 18 | | | | |
| 14 | eP | 22 48 47 | | | | |
| 15 | iP | 02 42 02.2 | C | | | |
| 15 | iP | 03 46 19.5 | C | | | |
| 16 | iP | 05 22 50.0 | C | | | |
| 16 | iP | 14 13 47.0 | C | | | |
| 16 | iP | 22 00 11.6 | D | | | |
| 17 | | Nil | | | | |
| 18 | iP | 13 03 47.4 | D | | | |
| | iPP | 05 34.9 | | | | |
| 19 | | Nil | | | | |
| 20 | iP | 01 25 56.0 | C | | | |
| 20 | iP | 08 49 29.3 | C | 0.8 | 80mu | 2.0 |
| 20 | iP | 13 42 37.1 | D | | | |
| 20 | iP | 14 33 13.2 | C | | | |
| 20 | iP | 20 32 17.1 | D | | | |
| 21 | iP | 08 32 15.0 | D | | | |
| 22 | iP | 18 13 45.6 | D | | | |
| 22 | eP | 20 48 20 | | | | |
| 22 | iP | 22 49 00.8 | D | | | |
| 23 | eP | 01 47 18 | | | | |
| 23 | iP | 20 44 40.2 | D | 0.9 | 100mu | 2.0 |
| 23 | iP | 22 42 00.8 | D | | | |
| 23 | iP | 23 14 06.5 | C | | | |
| 24 | iP | 00 26 35.7 | D | | | |
| 24 | iP | 01 45 24.4 | C | | | |
| 24 | iP | 02 15 41.0 | C | | | |
| 24 | iP | 02 29 31.5 | D | | | |
| 24 | iP | 23 30 33.2 | D | | | |
| 25 | iP | 00 14 01.6 | C | | | |
| 25 | iP | 03 54 49.6 | C | | | |
| 26 | iP | 19 13 36.6 | D | | | |
| 27 | iP | 09 35 53.2 | D | | | |
| 27 | iP | 18 06 49.2 | C | | | |
| 28 | eP | 01 01 49 | | | | |
| 28 | eP | 10 09 34 | | | | |
| 28 | iP | 10 17 03.0 | C | | | |
| 28 | iP | 13 43 33.6 | C | | | |
| 28 | eP | 14 28 42 | | | | |
| 28 | eP | 15 20 58 | | | | |
| 28 | eP | 18 08 13 | | | | |

| Date 1971 | Phase | G.M.T. | Dir. | Per. (sec.) | Amp. | LogA/T | |
|---|---|---|---|---|---|---|---|
| KALGOORLIE (KLG) | | Cont. | | | | | |
| October. | | | | | | | |
| 28 | eP | 19 54 35 | | | | | |
| 28 | iP | 21 15 13.5 | C | | | | |
| 29 | | Nil | | | | | |
| 30 | iP | 14 26 19.1 | D | | | | |
| 30 | iP | 16 39 21.1 | C | | | | |
| 30 | iP | 20 58 05.5 | D | 1.0 | 155mu | 2.2 | |
| 31 | iP | 12 18 30.2 | C | | | | |
| MEEKATHARRA (MEK) | | | | | | | |
| October. | | | | | | | |
| 01 | iP | 05 24 23.4 | C | | | | |
| 01 | iP | 16 19 55.9 | D | | | | |
| 02 | iP | 01 46 32.4 | C | | | | |
| 02 | eP | 15 54 32 | | | | | |
| | eS | 55 27 | | | | | Meekering |
| 03 | iP | 08 43 35.0 | C | | | | |
| 03 | iP | 13 33 42.3 | D | | | | |
| 04 | iP | 01 38 01.1 | D | | | | |
| 05 | | Nil | | | | | |
| 06 | iP | 04 02 20.3 | C | | | | |
| 07 | iP | 14 11 31.4 | C | | | | |
| 08 | iP | 14 21 57.0 | D | | | | |
| 08 | iP | 16 13 50.2 | D | 0.6 | 144mu | 2.4 | |
| 09 | iP | 07 03 46.5 | C | | | | |
| 09 | iP | 13 24 31.6 | C | | | | |
| 10 | eP | 13 58 58 | | | | | |
| 11 | iP | 03 49 15.7 | D | | | | |
| 11 | iP | 07 06 50.3 | C | | | | |
| 11 | eP | 10 26 54 | | | | | |
| 12 | ePKP | 10 04 44 | | | | | |
| 13 | iP | 09 37 25.5 | D | | | | |
| 13 | iP | 14 14 59.8 | C | | | | |
| 14 | eP | 10 45 18 | | | | | |
| 14 | iP | 11 05 30.1 | C | | | | |
| 14 | eP | 13 04 41 | | | | | |
| 14 | eP | 22 47 57 | | | | | |
| 15 | ePKP | 22 18 29 | | | | | |
| 16 | iP | 05 22 52.9 | C | | | | |
| 16 | iP | 09 17 42.1 | D | | | | Tom Price blast |
| 16 | iP | 21 59 42.4 | D | | | | |
| 17 | iP | 17 10 42.9 | C | | | | |
| 17 | iP | 18 10 55.9 | D | | | | |
| 18 | | Nil | | | | | |
| 19 | iP | 09 02 04.1 | C | | | | |
| 20 | iP | 01 25 28.9 | C | | | | |
| 20 | eP | 08 48 58 | | | | | |
| 20 | iP | 14 33 12.1 | D | | | | |
| 20 | iP | 20 32 32.2 | D | | | | |
| 21 | | Nil | | | | | |
| 22 | eP | 20 48 41 | | | | | |
| 22 | iP | 22 49 20.2 | D | | | | |
| 23 | eP | 01 48 01 | | | | | |
| 23 | e P | 20 44 20 | | | | | |
| 23 | iP | 22 41 43.1 | C | | | | |
| 24 | iP | 01 45 42.9 | D | | | | |
| 24 | iP | 02 29 20.0 | C | | | | |

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|---|---|---|---|---|---|---|---|
| **MEEKATHARRA (MEK)** Cont. | | | | | | | |
| October. | | | | | | | |
| 25 | iP | 04 55 04.8 | C | | | | |
| 26 | iP | 06 21 45.9 | D | | | | |
| 26 | iP | 09 59 39.8 | C | | | | |
| 26 | iP | 19 13 19.3 | C | | | | |
| 26 | eP | 20 16 28 | | | | | |
| 26 | eP | 20 48 15 | | | | | |
| 26 | eP | 23 45 40 | | | | | |
| 27 | iP | 05 13 32.4 | C | | | | |
| 27 | eP | 06 08 35 | | | | | |
| 27 | iP | 09 35 20.3 | C | | | | |
| 27 | iP | 10 55 13.6 | D | | | | |
| 27 | iP | 18 07 01.7 | C | | | | |
| 28 | eP | 01 01 50 | | | | | |
| 28 | iP | 02 34 40.0 | D | | | | |
| 28 | iP | 09 22 48.5 | C | | | | Meekoring |
| | eS | 23 48 | | | | | |
| 28 | iP | 10 17 03.7 | C | | | | |
| 28 | iP | 13 43 08.2 | C | | | | |
| 28 | iP | 14 24 30.5 | D | | | | |
| 28 | iP | 14 28 56.0 | C | | | | |
| 28 | iP | 15 20 59.5 | C | | | | |
| 28 | iP | 18 04 11.4 | C | | | | |
| 28 | iP | 18 08 27.5 | C | | | | |
| 28 | iP | 18 49 16.5 | C | | | | |
| 28 | iP | 19 54 36.5 | C | | | | |
| 28 | iP | 20 04 42.4 | C | | | | |
| | iS | 07 17.6 | | | | | |
| 28 | iP | 21 15 15.3 | C | | | | |
| 29 | eP | 00 52 24 | | | | | |
| 29 | iP | 13 44 21.1 | C | | | | |
| 29 | iP | 14 18 41.2 | C | | | | |
| 29 | iP | 14 22 03.9 | C | | | | |
| 29 | iP | 23 17 58.0 | C | | | | |
| 30 | iP | 14 25 58.0 | D | | | | |
| 30 | iP | 16 39 37.6 | C | | | | |
| 30 | iP | 14 25 58.1 | D | | | | |
| 30 | iP | 17 15 10.2 | D | | | | |
| 30 | iP | 19 24 50.9 | C | | | | |
| 30 | iP | 20 57 35.0 | C | | | | |
| 31 | iP | 09 21 46.8 | C | | | | |
| 31 | iP | 12 19 02.5 | C | | | | |
| 31 | iP | 15 02 38.0 | C | | | | |
| 31 | iP | 19 34 37.0 | C | | | | |

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|---|---|---|---|---|---|---|

**KUNUNURRA (KNA)**

October.

| | | | | | | |
|---|---|---|---|---|---|---|
| 01-15 | No record | | | | | |
| 16 | eP | 15 10 18 | | | | |
| 17 | eP | 19 31 20 | | | | |
| 18 | eP | 05 56 05 | | | | |
| 19 | iP | 22 45 14.1 | C | | | |
| | eS | 46 44 | | | | |
| 20 | iP | 01 22 44.9 | D | | | |
| 20 | iP | 06 44 48.7 | C | | | |
| | eS | 46 18 | | | | |
| 21 | iP | 00 49 57.5 | C | | | |
| | eS | 51 24 | | | | |
| 21 | iP | 06 15 06.3 | C | | | |
| 21 | eP | 21 06 59 | | | | |
| 22 | iP | 21 48 23.7 | D | | | |
| 23 | iP | 01 48 55.4 | C | | | |
| 23 | iP | 05 33 28.9 | D | | | |
| 23 | eP | 20 41 38 | | | | |
| 23 | iP | 22 39 22.2 | D | | | |
| 24 | eP | 01 43 42 | | | | |
| 24 | eP | 18 02 24 | | | | |
| | eS | 03 56 | | | | |
| 24 | iP | 22 28 24.1 | C | | | |
| 25 | iP | 00 17 10.2 | D | | | |
| 25 | iP | 03 57 43.0 | D | | | |
| 26 | iP | 16 47 24.0 | D | | | |
| 26 | iP | 19 11 20.0 | C | | | |
| 27 | iP | 18 05 44.5 | C | | | |
| 28 | iP | 13 42 51.9 | C | | | |
| 28 | eP | 14 26 33 | | | | |
| 28 | iP | 15 19 07.5 | D | | | |
| 28 | iP | 17 26 18.5 | D | | | |
| 28 | iP | 18 07 04.2 | C | | | |
| 28 | iP | 21 13 22.9 | C | | | |
| 29 | iP | 00 51 48.5 | D | | | |
| 29 | iP | 18 21 37.5 | C | | | |
| 30 | iP | 16 38 18.8 | C | | | |
| 30 | iP | 17 13 21.0 | C | | | |
| 31 | eP | 03 23 21 | | | | |

**KARRATHA (KAA)**

October.

| | | | | | | |
|---|---|---|---|---|---|---|
| 01-02 | | Nil | | | | |
| 03 | iP | 08 43 31.0 | C | | | |
| 03 | eP | 13 33 51 | | | | |
| 04 | | Fogged record | | | | |
| 05 | | Nil | | | | |
| 06-07 | | Fogged record | | | | |
| 08 | eP | 14 21 49 | | | | |
| 08 | iP | 16 14 06.1 | D | | | |
| 09 | iP | 13 23 48.6 | C | | | |
| 10-11 | | Nil | | | | |
| 12 | ePKP | 10 04 54 | | | | |
| 13 | | Nil | | | | |
| 14 | eP | 22 49 10 | | | | |
| 15 | | Nil | | | | |
| 16 | iP | 21 58 57.0 | C | 1.1 | 130mu | 2.1 |

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| Date 1971 | Phase | G.M.T. | Dir. | Per. (sec.) | Amp. | LogA/T |
|---|---|---|---|---|---|---|
| KARRATHA (KAA) Cont. | | | | | | |
| October. | | | | | | |
| 17 | iP | 18 10 03.8 | D | | | |
| 18 | eP | 12 39 32 | | | | |
| 18 | iP | 13 04 30.0 | D | | | |
| 19 | | Nil | | | | |
| 20 | eP | 20 32 43 | | | | |
| 21 | | Nil | | | | |
| 22 | | Nil | | | | |
| 23 | iP | 20 43 50.7 | D | | | |
| 23 | iP | 22 41 12.8 | D | | | |
| 24 | | Nil | | | | |
| 25 | iP | 03 55 14.3 | C | | | |
| 26 | | Nil | | | | |
| 27 | iP | 18 07 13.4 | C | 0.8 | 450mu | 2.5 |
| 28 | eP | 14 29 04 | | | | |
| 28 | eP | 15 20 53 | | | | |
| 28 | eP | 18 08 37 | | | | |
| 28 | iP | 20 03 21.6 | C | | | |
| | eS | 04 54 | | | | |
| 29 | | Nil | | | | |
| 30 | iP | 14 25 24.9 | D | | | |
| 30 | iP | 16 39 48.9 | C | | | |
| 30 | iP | 20 56 50.8 | C | 0.8 | 530mu | 2.8 |
| 31 | iP | 12 19 35.2 | C | | | |

P J Grogeon

P.J. Grogeon,
Observer-in-Charge.

International Seismological Centre

International Seismological Centre

COMMONWEALTH OF AUSTRALIA

Department of National Development

Bureau of Mineral Resources, Geology and Geophysics

MUNDARING GEOPHYSICAL OBSERVATORY

NOVEMBER, [redacted] 1971

MUNDARING (MUN)

Latitude: 31°58.7'S Longitude: 116°12.5'E

Height: 253 Metres

Foundation: Precambrian granite

KALGOORLIE (KLG)

Latitude: 30°47' 01.2"S Longitude: 121°27' 28.9"E

Height: 350 Metres

Foundation Alluvium-covered Precambrian basic metasediments

MEEKATHARRA (MEK)

Latitude: 26°36'46"S Longitude: 118°32'42"E

Height: 515 Metres

Foundation: Archean Sedimentary rock

KARRATHA (KAA)

Latitude: 20°46.6'S Longitude: 116°51.5'E

Height: 15 Metres

Foundation: Precambrian volcanics

KUNUNURRA (KNA)

Latitude: 50°45.0'S Longitude: 128°46.0'E

Height: 55 Metres

Foundation: Unweathered upper Devonian sandstone.

All correspondence relating to these seismographs should be addressed to:-

Observer-in-Charge,
Geophysical Observatory,
MUNDARING. 6073

# INSTRUMENTATION

## MUNDARING

World wide standard seismograph system No. 44

| | | |
|---|---|---|
| Nominal magnification | S,P-Z, N, E | 25000 at 1 second |
| | LP-Z | 750 at 15 seconds |
| | LP-N, E | 375 at 15 seconds |

| | Component | Seismometer | Galvanometer | Magnification |
|---|---|---|---|---|
| KALGOORLIE | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 15,800 at 1 second |
| | SP-SW | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.25 | 16,500 at 1 second |
| | SP-NW | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.25 | 16,500 at 1 second |
| MEEKATHARRA | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 9,000 at 1 second |
| KARRATHA | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 31,000 at 1 second |
| KUNUNURRA | SP- Z | Willmore Mk1 To = 1.0 | Willmore Tg = 0.25 | 20,000 at 1 second |

Timemarks for all stations other than Mundaring are normally supplied from an EMI crystal clock controlled by VNG or ABC radio pips.

Magnification curves are available on request.

| Date 1971 | Phase | G.M.T. | Dir. | Per. (sec.) | Amp. | LogA/T | |
|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** | | | | | | | |
| November. | | | | | | | |
| 01 | | Nil | | | | | |
| 02 | eP | 08 41 48 | | | | | |
| 02 | iP | 22 25 04.6 | C | | | | |
| 02 | eP | 22 58 47 | | | | | |
| 02 | iP | 23 37 52.1 | C | | | | |
| 03-04 | | Nil | | | | | |
| 05 | iP | 21 24 55.9 | C | | | | Quellington |
| | iS | 25 04.1 | | | | | ML = 2.0 |
| 05 | iP | 22 19 45.5 | C | | | | |
| 06 | eP | 00 04 07 | | | | | |
| 06 | iP | 22 13 43.2 | C | 1.8 | 600mu | 2.5 | Nuclear |
| | | | LZ | 20.0 | 1.4 u | | blast |
| | | | LN | 20.0 | 1.4 u | | |
| | | | LE | 20.0 | 1.4 u | | |
| 07 | iP | 02 14 00.1 | D | | | | Jennacubine |
| | iS | 14 09.8 | | | | | ML = 2.2 |
| 07 | iP | 02 15 03.7 | D | 0.9 | 140mu | 2.2 | |
| | iS | 19 14.8 | | | | | |
| 07 | iP | 23 17 28.8 | D | | | | Mockering |
| | iS | 17 38.0 | | | | | ML = 2.2 |
| 08 | eP | 03 19 00 | | | | | |
| 08 | eP | 06 28 50 | | | | | |
| 08 | iP | 22 50 11.1 | C | 0.7 | 108mu | 2.2 | |
| 09 | | Nil | | | | | |
| 10 | iP | 10 30 40.5 | C | | | | |
| 11 | iP | 08 18 30.0 | D | | | | |
| 11 | iP | 11 23 44.0 | D | | | | |
| 11 | iP | 14 00 47.9 | C | | | | |
| 12 | iP | 05 10 57.8 | C | | | | |
| 12 | iP | 05 52 29.9 | D | | | | |
| 13 | eP | 07 52 46 | | | | | Lake McKay |
| | eS | 55 06 | | | | | mB = 4.1 |
| 13 | eP | 08 19 52 | | | | | 300km S of |
| | eS | 21 23 | | | | | Dampier |
| 13 | iP | 21 00 48.0 | D | | | | mB = 3.7 |
| | iS | 00 59.4 | | | | | Calingiri |
| 14-15 | | Nil | | | | | ML = 2.5 |
| 16 | iP | 04 16 42.0 | C | | | | |
| 17 | eP | 10 59 53 | | | | | |
| 17 | iP | 15 40 59.3 | D | | | | Mawson |
| | iS | 41 09.9 | | | | | ML = 2.6 |
| 17 | iP | 19 54 38.8 | D | | | | Mawson |
| | iS | 54 49.8 | | | | | ML = 2.1 |
| 18 | iP | 06 27 22.8 | C | | | | Off shore |
| 18 | iP | 07 44 01.9 | C | | | | blast |
| 19 | eP | 01 46 18 | | | | | 290km SSE |
| | eS | 47 46 | | | | | Dampier |
| | | | | | | | mB = 3.7 |

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|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** | Cont. | | | | | | |
| November. | | | | | | | |
| 20 | iP | 06 28 46.7 | D | | | | |
| | iX | 29 15.7 | | | | | |
| 20 | iP | 07 36 51.7 | D | 0.6 | 850mu | 3.1 | |
| 20 | iP | 10 24 21.1 | C | | | | |
| 21 | iP | 06 05 58.9 | C | 0.9 | 2800mu | 3.5 | |
| | eS | 13 05 | | | | | |
| 21 | iP | 07 34 21.6 | C | | | | |
| 22 | iP | 08 26 20.1 | C | | | | |
| 23 | eP | 10 19 27 | | | | | |
| 24 | eP | 06 22 19 | | | | | |
| 24 | iP | 18 15 59.8 | D | | | | |
| 24 | iP | 19 48 28.9 | D | 1.0 | 64mu | 1.8 | |
| 25 | iP | 12 29 02.1 | C | | | | |
| 25 | iP | 14 31 12.6 | D | | | | Mockoring |
| | iS | 31 22.6 | | | | | ML = 2.0 |
| 26 | iP | 14 26 44.1 | D | | | | |
| 26 | iP | 14 49 15.1 | D | 1.0 | 40mu | 1.6 | |
| 27 | iP | 03 39 26.9 | C | 1.0 | 40mu | 1.6 | |
| 27 | iP | 18 34 03.8 | C | | | | |
| 27 | iP | 20 59 24.2 | D | | | | Mockoring |
| | iS | 59 34.0 | | | | | ML = 2.1 |
| 28 | iP | 03 59 20.9 | D | | | | |
| 28 | iP | 14 22 13.9 | C | | | | |
| 28 | iP | 16 59 18.6 | C | | | | Calingiri |
| | iS | 59 30.5 | | | | | ML = 2.1 |
| 29 | | Nil | | | | | |
| 30 | iP | 07 33 17.5 | D | | | | |
| **KALGOORLIE (KLG)** | | | | | | | |
| November. | | | | | | | |
| 01 | | Nil | | | | | |
| 02 | iP | 23 24 40.2 | C | | | | |
| 03 | iP | 00 37 16.6 | C | | | | |
| 04-05 | | Nil | | | | | |
| 06 | iP | 22 13 27.5 | C | 1.0 | 312mu | 2.5 | Nuclear |
| 07 | iP | 02 14 42.7 | D | 0.8 | 310mu | 2.6 | blast |
| 08 | iP | 03 19 12.6 | D | | | | |
| 08 | iP | 22 49 52.7 | C | 0.7 | 95mu | 2.1 | |
| 09-10 | | Nil | | | | | |
| 11 | iP | 11 23 13.5 | D | | | | |
| 11 | iP | 14 00 10.7 | C | | | | |
| 12 | iP | 05 10 27.9 | D | | | | |
| 12 | iP | 05 52 00.8 | D | | | | |
| 13 | eP | 07 51 59 | | | | | Lake McKay |
| | eS | 53 44 | | | | | mB = 4.7 |
| 13 | iP | 11 14 59.0 | C | | | | |
| 13 | eP | 08 19 50 | | | | | 300km S |
| 13 | eP | 21 01 35 | | | | | Dampier |
| 14 | | Nil | | | | | Calingiri |
| | | | | | | | ML = 3.1 |

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| Date 1971 | Phase | G.M.T. | Dir. | Per. (sec.) | Amp. | LogA/T | |
|---|---|---|---|---|---|---|---|
| KALGOORLIE (KLG) Cont. | | | | | | | |
| November. | | | | | | | |
| 15 | | Nil | | | | | |
| 16 | iP | 04 16 06.3 | D | 1.0 | 93mu | 2.0 | |
| 17 | | Nil | | | | | |
| 18 | iP | 01 44 07.8 | C | | | | |
| 18 | iP | 07 44 11.1 | C | | | | |
| 19 | iP | 23 38 49.1 | C | | | | |
| 20 | iP | 07 36 22.2 | D | 1.0 | 1480mu | 3.2 | |
| | iX | 43 05.7 | | | | | |
| 20 | iP | 10 23 55.6 | C | | | | |
| 20 | iP | 11 39 01.4 | D | | | | |
| 21 | iP | 06 05 24.0 | C | 1.0 | 1550mu | 3.2 | |
| 22 | eP | 09 26 02 | | | | | |
| 23 | eP | 11 18 51 | | | | | |
| 24 | iP | 19 48 16.0 | D | 1.0 | 280mu | 2.4 | |
| 25 | iP | 12 28 26.6 | D | | | | |
| 25 | eP | 20 33 08 | | | | | |
| 26 | | Nil | | | | | |
| 27 | eP | 13 55 15 | | | | | |
| 27 | iP | 18 33 31.9 | D | | | | |
| 28 | iP | 14 21 50.0 | C | | | | |
| 29 | | Nil | | | | | |
| 30 | eP | 04 53 20 | | | | | |
| 30 | iP | 07 32 51.9 | D | | | | |
| 30 | eP | 13 11 27 | | | | | |
| MEEKATHARRA (MEK) | | | | | | | |
| November. | | | | | | | |
| 01 | iP | 10 08 42.0 | C | | | | |
| 02 | eP | 08 41 01 | | | | | |
| 02 | iP | 23 37 17.5 | C | | | | |
| 03-04 | | Nil | | | | | |
| 05 | eP | 16 15 57 | | | | | |
| 05 | iP | 22 19 18.5 | D | | | | |
| 06 | iP | 22 13 18.2 | C | 0.9 | 2100mu | 3.4 | Nuclear blast |
| 07 | iP | 02 14 01.7 | D | | | | |
| 08 | iP | 03 15 35.0 | D | | | | |
| 08 | iP | 22 48 22.0 | C | | | | |
| 09 | | Nil | | | | | |
| 10 | iP | 10 30 04.0 | C | | | | |
| 11 | eP | 14 00 11 | | | | | |
| 12 | iP | 05 10 46.7 | D | | | | |
| 12 | iP | 05 52 18.9 | D | | | | |
| 13 | eP | 07 51 44 | | | | | Lake McKay mB = 4.4 300km S Dampier mB = 3.3 Calingiri ML = 2.8 |
| | eS | 53 14 | | | | | |
| 13 | eP | 08 18 41 | | | | | |
| 13 | iP | 11 14 59.2 | D | | | | |
| 13 | eP | 21 01 42 | | | | | |
| | eS | 02 36 | | | | | |

International Seismological Centre

| Date 1971 | Phase | G.M.T. | Dir. | Per. (sec.) | Amp. | LogA/T | |
|---|---|---|---|---|---|---|---|
| MEEKATHARRA (MEK) Cont. | | | | | | | |
| November. | | | | | | | |
| 14 | iP | 20 10 50.7 | D | | | | |
| | iS | 13 48.2 | | | | | |
| 15 | | Nil | | | | | |
| 16 | iP | 04 16 02.4 | D | | | | |
| 17 | iP | 10 59 16.9 | D | | | | |
| 17 | eP | 15 42 06 | | | | | Mawson. |
| | eS | 43 05 | | | | | MB = 2.6 |
| 17 | iP | 18 53 07.5 | D | | | | |
| 18 | eP | 07 43 45 | | | | | |
| 19 | eP | 01 45 05 | | | | | 290km SSE |
| | eS | 45 46 | | | | | Dampier |
| | | | | | | | mB = 3.2 |
| 20 | iP | 07 36 43.6 | D | | | | |
| 20 | iP | 10 23 28.8 | D | | | | |
| 20 | eP | 13 40 49 | | | | | |
| 20 | eP | 23 07 45 | | | | | |
| 21 | iP | 06 05 36.1 | C | | | | |
| 21 | iP | 06 28 24.2 | C | | | | |
| 21 | iP | 07 33 58.9 | D | | | | |
| 21 | iP | 23 40 13.6 | C | | | | |
| 22 | eP | 00 59 17 | | | | | |
| 22 | iP | 08 25 28.7 | D | | | | |
| | epP | 25 51 | | | | | |
| 23 | iP | 10 18 50.7 | D | | | | |
| 24 | iP | 06 21 03.4 | C | | | | Regional |
| 24 | iP | 19 48 01.3 | D | | | | |
| 25 | eP | 12 28 25 | | | | | |
| 25 | iP | 14 06 48.8 | C | | | | |
| 25 | iP | 20 33 01.0 | C | | | | |
| 25 | eP | 21 54 10 | | | | | |
| 26 | iP | 14 25 53.0 | C | | | | |
| 26 | iP | 14 48 53.1 | C | | | | |
| 26 | iP | 20 52 12.8 | D | | | | |
| 27 | eP | 00 01 02 | | | | | |
| 27 | iP | 10 28 30.8 | C | | | | |
| 27 | iP | 13 54 49.0 | C | | | | |
| 27 | iP | 18 33 52.3 | D | | | | |
| 27 | iP | 23 42 33.5 | D | | | | |
| 28 | eP | 09 07 50 | | | | | |
| 28 | iP | 14 21 33.3 | C | | | | |
| 28 | iP | 15 06 06.8 | D | | | | |
| 28 | iP | 16 51 54.7 | C | | | | |
| 28 | eP | 19 22 52 | | | | | |
| 29 | iP | 06 15 31.5 | C | | | | |
| 29 | iP | 15 49 01.3 | C | | | | |
| | iS | 57 51.4 | | | | | |
| 29 | iP | 23 31 30.8 | D | | | | |
| 30 | iP | 10 58 42.8 | C | | | | |

| Date 1971 | Phase | G.M.T. | Dir. | Per. (sec.) | Amp. | LogA/T | |
|---|---|---|---|---|---|---|---|
| KARRATHA (KAA) | | | | | | | |
| November. | | | | | | | |
| 01-05 | | Nil | | | | | |
| 06 | iP | 22 12 59.8 | C | 1.8 | 2500mu | 3.1 | Nuclear blast |
| 07 | | No record | | | | | |
| 08 | eP | 22 48 37 | | | | | |
| 09-12 | | Nil | | | | | |
| 13 | eP | 08 18 31 | | | | | 300km S Dampier mB = 3.8 |
| | eS | 19 05 | | | | | |
| 14 | | Nil | | | | | |
| 15 | iP | 12 41 59.6 | D | | | | |
| 16-18 | | Nil | | | | | |
| 19 | eP | 01 44 53 | | | | | 290km SSE Dampier mB = 3.5 |
| | eS | 45 25 | | | | | |
| 20 | iP | 07 37 03.8 | D | | | | |
| 21 | iP | 06 05 44.6 | C | | | | |
| 22 | eP | 08 24 40 | | | | | |
| 23 | | Nil | | | | | |
| 24 | iP | 19 47 39.5 | C | | | | |
| 25-27 | | Nil | | | | | |
| 28 | | No record | | | | | |
| 29 | iP | 20 32 44.5 | C | | | | |
| 30 | | Nil | | | | | |

P.J. Gregson,
Observer-in-Charge.

International Seismological Centre

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COMMONWEALTH OF AUSTRALIA

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# MUNDARING GEOPHYSICAL OBSERVATORY

DECEMBER 1971

MUNDARING (MUN)

Latitude: 31°58.7'S Longitude: 116°12.5'E

Height: 253 Metres

Foundation: Precambrian granite

KALGOORLIE (KLG)

Latitude: 30°47' 01.2"S Longitude: 121°27' 28.9"E

Height: 350 Metres

Foundation Alluvium-covered Precambrian basic metasediments

MEEKATHARRA (MEK)

Latitude: 26°36'46"S Longitude: 118°32'42"E

Height: 515 Metres

Foundation: Archean Sedimentary rock

KARRATHA (KAA)

Latitude: 20°46.6'S Longitude: 116°51.5'E

Height: 15 Metres

Foundation: Precambrian volcanics

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Latitude: 50°45.0'S Longitude: 128°46.0'E

Height: 55 Metres

Foundation: Unweathered upper Devonian sandstone.

All correspondence relating to these seismographs should be addressed to:-

Observer-in-Charge,
Geophysical Observatory,
MUNDARING. 6073

International Seismological Centre

# INSTRUMENTATION

## MUNDARING

World wide standard seismograph system No. 44

| | | |
|---|---|---|
| Nominal magnification | S,P-Z, N, E | 25000 at 1 second |
| | LP-Z | 750 at 15 seconds |
| | LP-N, E | 375 at 15 seconds |

| | Component | Seismometer | Galvanometer | Magnification |
|---|---|---|---|---|
| KALGOORLIE | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 15,800 at 1 second |
| | SP-SW | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.25 | 16,500 at 1 second |
| | SP-NW | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.25 | 16,500 at 1 second |
| MEEKATHARRA | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 9,000 at 1 second |
| KARRATHA | SP-Z | Willmore Mk2 To = 1.0 | Geotech G10 Tg = 0.75 | 31,000 at 1 second |
| KUNUNURRA | SP- Z | Willmore Mk1 To = 1.0 | Willmore Tg = 0.25 | 20,000 at 1 second |

Timemarks for all stations other than Mundaring are normally supplied from an EMI crystal clock controlled by VNG or ABC radio pips.

Magnification curves are available on request.

| Date 1971 | Phase | G.M.T. | Dir. | Per. (sec.) | | Amp. | LogA/T | |
|---|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** | | | | | | | | |
| December. | | | | | | | | |
| 01 | | Nil | | | | | | |
| 02 | iP | 13 27 36.0 | D | | | | | Meckering ML = 2.5 |
| 02 | eP | 15 33 47 | | | | | | |
| 02 | iP | 17 30 47.8 | C | | | | | |
| 02 | eP | 18 49 40 | | | | | | |
| 03 | | Nil | | | | | | |
| 04 | iP | 02 33 53.7 | C | | 1.1 | 590mu | 2.7 | |
| | | | | LZ | 20.0 | 214 u | | |
| | | | | LN | 20.0 | 71 u | | |
| | | | | LE | 20.0 | 171 u | | |
| | iX | 44 50.9 | | | | | | |
| 04 | iP | 12 37 16.6 | D | | | | | |
| 04 | iP | 15 44 34.0 | D | | | | | |
| 04 | iP | 16 03 24.7 | C | | 0.8 | 240mu | 2.5 | |
| 04 | iP | 22 47 13.4 | C | | | | | |
| 05 | | Nil | | | | | | |
| 06 | eP | 11 43 56 | | | | | | |
| 07 | eP | 03 38 00 | | | | | | |
| 07 | eP | 06 30 18 | | | | | | |
| | eX | 30 33 | | | | | | |
| 08 | eP | 06 08 56 | | | | | | |
| 09 | iP | 02 52 34.7 | D | | | | | |
| 09 | iP | 15 10 02.2 | C | LZ | 20.0 | 17 u | | |
| | | | | LN | 20.0 | 0 u | | |
| | | | | LE | 20.0 | 14 u | | |
| 09 | iP | 22 49 12.0 | C | | | | | |
| 10 | iP | 05 04 23.0 | C | | | | | |
| 10 | iP | 07 28 31.1 | C | | | | | |
| | eX | 29 06 | | | | | | |
| | eS | 33 44 | | | | | | |
| 10 | iP | 19 38 31.9 | D | | | | | |
| 11 | iP | 03 36 41.1 | C | | | | | |
| 11 | iP | 07 33 21.9 | C | | | | | |
| 11 | iP | 22 50 51.6 | D | | | | | |
| 12 | iP | 19 21 30.8 | D | | | | | Mawson ML = 2.0 |
| | iS | 21 42.8 | | | | | | |
| 13 | eP | 01 56 23 | | | | | | |
| 13 | eP | 02 58 54 | | | | | | |
| 13 | iP | 21 47 11.9 | C | | | | | |
| 14 | iP | 12 18 18.0 | C | | | | | Manmanning ML = 2.4 |
| | iS | 18 35.6 | | | | | | |
| 14 | iP | 12 42 41.3 | C | | | | | |
| 15 | eP | 08 43 22 | | LZ | 20.0 | 235 u | | |
| | | | | LN | 20.0 | 70 u | | |
| | | | | LE | 20.0 | 166 u | | |
| 16 | iP | 02 09 17.3 | D | | | | | |
| 16 | iP | 04 30 07.1 | D | | | | | |
| 17 | iP | 04 03 31.0 | C | | | | | |
| 17 | eP | 06 28 23 | | | | | | |
| 17 | iP | 09 13 12.8 | C | | | | | |
| | eS | 17 23 | | | | | | |
| 17 | iP | 18 06 15.0 | C | | | | | |
| 18 | eP | 10 19 41 | | | | | | MB = 4.1 300km S Dampier |
| 18 | eP | 19 37 36 | | | | | | |
| 19 | iP | 06 07 55.1 | D | | | | | |
| 19 | eP | 12 45 39 | | | | | | |

| Date 1971 | Phase | G.M.T. | Dir. | Per. (sec.) | Amp. | LogA/T | |
|---|---|---|---|---|---|---|---|
| **MUNDARING (MUN)** Cont. | | | | | | | |
| December. | | | | | | | |
| 19 | iP | 14 40 18.1 | D | | | | |
| 20 | iP | 03 32 15.7 | C | | | | |
| 21 | eP | 10 06 40 | | | | | |
| 21 | iP | 10 29 17.7 | D | | | | Meckering ML = 2.6 |
| | eS | 29 28 | | | | | |
| 21 | iP | 19 30 35.1 | D | | | | |
| 22 | iP | 00 58 07.7 | C | | | | |
| 22 | eP | 12 14 56 | | | | | |
| 22 | iP | 18 46 32.6 | C | | | | Meckering ML = 3.1 |
| | iS | 46 42.4 | | | | | |
| 23 | eP | 17 04 49 | | | | | |
| 23 | iP | 20 11 04.7 | C | | | | |
| 23 | iP | 23 10 31.5 | D | | | | |
| 24 | eP | 16 35 53 | | | | | |
| 24 | eP | 22 29 47 | | | | | |
| 25 | iP | 00 16 14.9 | D | | | | Meckering ML = 2.1 |
| | iS | 16 24.7 | | | | | |
| 25 | iP | 17 57 53.9 | D | | | | |
| 26 | iP | 00 07 07.0 | D | | | | |
| 26 | iP | 04 33 30.4 | D | | | | |
| 26 | iP | 15 59 01.9 | D | | | | |
| 27 | iP | 11 10 50.2 | D | | | | |
| 27 | eP | 20 58 26 | | | | | |
| 28 | eP | 12 54 19 | | | | | |
| 28 | ii | 22 49 49.0 | D | | | | |
| 29 | iP | 03 34 45.2 | D | | | | |
| 29 | iP | 22 37 08.9 | C | | | | |
| 30 | eP | 05 20 02 | | | | | |
| 30 | iP | 06 33 51.0 | C | | | | |
| 30 | iP | 15 47 26.5 | C | | | | |
| | eX | 47 51 | | | | | |
| | eX | 53 44 | | | | | |
| 31 | eP | 07 03 42 | | | | | |
| 31 | iP | 21 01 11.8 | D | | | | |
| 31 | iP | 22 43 58.4 | C | | | | |
| **KALGOORLIE (KLG)** | | | | | | | |
| December. | | | | | | | |
| 01 | | Nil | | | | | |
| 02 | eP | 13 28 21 | | | | | Meckering ML = 3.4 |
| | eS | 29 21 | | | | | |
| 02 | eP | 15 33 11 | | | | | |
| 02 | eP | 16 14 22 | | | | | |
| 02 | iP | 19 30 34.5 | C | | | | |
| 02 | iP | 18 49 03.5 | D | | | | |
| 03 | | Nil | | | | | |
| 04 | iP | 02 21 36.8 | C | | | | |
| 04 | iP | 02 33 17.2 | C | | | | |
| 04 | iP | 02 44 14.8 | C | | | | |
| 04 | iP | 15 43 58.0 | C | | | | |
| 04 | iP | 16 03 06.9 | C | | | | |
| 04 | iP | 22 46 37.2 | C | | | | |
| 05 | iP | 07 40 30.0 | C | | | | |
| 05 | eP | 13 30 10 | | | | | |
| 06 | iP | 02 13 59.4 | C | | | | |
| 06 | iP | 11 43 39.4 | C | | | | |
| 07 | eP | 03 38 20 | | | | | |
| 07 | iP | 06 29 58.9 | C | | | | |

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|---|---|---|---|---|---|---|---|
| KALGOORLIE (KLG) Cont. | | | | | | | |
| December. | | | | | | | |
| 07 | eP | 08 32 51 | | | | | |
| 07 | eP | 12 24 20 | | | | | |
| 08 | eP | 06 18 38 | | | | | |
| 08 | iP | 19 06 31.8 | C | | | | |
| 09 | iP | 01 55 08.1 | D | | | | |
| 09 | iP | 15 09 27.7 | C | | | | |
| 09 | iP | 19 02 42.0 | D | | | | |
| 09 | iP | 22 49 00.5 | C | | | | |
| 10 | iP | 05 03 45.5 | C | | | | |
| 10 | iP | 07 28 04.9 | C | | | | |
| | eS | 32 34 | | | | | |
| 10 | iP | 07 46 35.4 | D | | | | |
| 10 | iP | 19 38 07.7 | D | | | | |
| 10 | eP | 23 06 39 | | | | | |
| 11 | iP | 03 36 20.6 | C | | | | |
| 11 | iP | 06 23 39.7 | C | | | | |
| 11 | eP | 07 32 47 | | | | | |
| 11 | iP | 22 50 39.8 | D | | | | |
| 12 | iP | 00 26 27.3 | C | | | | |
| 12 | iP | 03 35 36.5 | C | | | | |
| 13 | iP | 01 46 47.2 | D | | | | |
| 13 | iP | 01 52 24.7 | C | | | | |
| 14 | eP | 09 46 13 | | | | | |
| 14 | iP | 12 42 03.8 | D | | | | |
| 15 | iP | 07 35 54.0 | C | | | | |
| 15 | eP | 07 40 29 | | | | | |
| 15 | eP | 08 43 08 | | | | | |
| 16 | iP | 02 08 52.9 | D | | | | |
| 16 | iP | 04 29 47 | | | | | |
| 17 | iP | 09 13 13.2 | C | | | | |
| 17 | iP | 18 06 26.0 | C | | | | |
| 17 | iP | 19 19 33.0 | C | | | | |
| 18 | eP | 10 19 34 | | | | | MB = 4.5<br>800km S Dampier |
| 18 | iP | 22 11 04.6 | D | | | | |
| 19 | iP | 06 07 19.6 | C | | | | |
| 20 | | Nil | | | | | |
| 21 | iP | 07 40 32.4 | C | | | | |
| 21 | iP | 10 06 40.6 | C | | | | |
| 21 | eP | 10 30 04 | | | | | Meckering<br>ML = 3.3 |
| | eS | 30 48 | | | | | |
| 21 | iP | 19 30 46.2 | C | | | | |
| 22 | eP | 12 14 29 | | | | | |
| 22 | eP | 18 47 18 | | | | | Meckering<br>ML = 3.5 |
| | eS | 48 02 | | | | | |
| 23 | iP | 17 04 29.2 | D | | | | |
| 23 | iP | 20 03 55.5 | C | | | | |
| 24 | iP | 16 35 28.5 | D | | | | |
| 24 | eP | 16 40 01 | | | | | |
| 24 | eP | 21 21 21 | | | | | |
| 24 | iP | 22 29 08.2 | C | | | | |
| 25 | iP | 17 57 27.8 | C | | | | |
| 26 | iP | 04 33 08.8 | C | | | | |
| 26 | iP | 15 58 24.8 | D | | | | |
| 27 | iP | 11 10 19.6 | D | | | | |
| 27 | eP | 20 57 50 | | | | | |
| 28 | eP | 22 49 31 | | | | | |
| 29 | eP | 03 34 10 | | | | | |

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|---|---|---|---|---|---|---|---|
| **KALGOORLIE (KLG)** Cont. | | | | | | | |
| December. | | | | | | | |
| 29 | iP | 08 51 23.0 | D | | | | |
| 29 | iP | 22 37 15.1 | D | | | | |
| 30 | iP | 06 33 54.9 | C | | | | |
| 30 | iP | 15 46 56.0 | C | | | | |
| | eX | 47 15 | | | | | |
| | eX | 52 37 | | | | | |
| 31 | eP | 14 43 36 | | | | | |
| 31 | eP | 21 01 03 | | | | | |
| | eS | 07 07 | | | | | |
| 31 | iP | 22 43 45.0 | C | 0.7 | 426mu | 2.8 | |
| | iX | 48 44.0 | | | | | |
| **MEEKATHARRA (MEK)** | | | | | | | |
| December. | | | | | | | |
| 01 | iP | 11 39 04.3 | C | | | | |
| 02 | iP | 13 28 40.4 | D | | | | Meckering ML = 3.2 |
| | iS | 29 33.8 | | | | | |
| 02 | iP | 15 33 09.8 | D | | | | |
| 02 | iP | 16 13 53.0 | C | | | | |
| 02 | iP | 17 30 19.1 | C | | | | |
| 02 | eP | 18 49 03 | | | | | |
| 03 | eP | C4 56 04 | | | | | |
| 03 | eP | 11 09 18 | | | | | |
| 04 | iP | 02 33 20.0 | C | | | | |
| 04 | eP | 10 23 51 | | | | | |
| 04 | iP | 12 36 27.5 | C | | | | |
| 04 | iP | 15 44 00.2 | C | | | | |
| 04 | iP | 16 02 36.3 | C | | | | |
| 04 | iP | 22 46 39.2 | C | | | | |
| 05 | iP | 08 23 45.2 | C | | | | |
| 05 | eP | 13 30 37 | | | | | |
| 06 | iP | 11 42 59.0 | C | | | | |
| | eS | 46 14 | | | | | |
| 07 | eP | 03 38 32 | | | | | |
| 07 | iP | 06 29 27.9 | D | | | | |
| 07 | iP | 12 24 09.3 | C | | | | |
| 08 | eP | 04 43 22 | | | | | |
| 08 | eP | 06 19 03 | | | | | |
| 08 | eP | 06 49 11 | | | | | |
| 08 | eP | 16 44 27 | | | | | |
| 08 | eP | 19 06 05 | | | | | |
| 09 | eP | 01 54 41 | | | | | |
| 09 | iP | 02 52 14.2 | C | | | | |
| 09 | eP | 15 09 50 | | | | | |
| 09 | iP | 19 02 42.1 | C | | | | |
| 09 | eP | 22 48 31 | | | | | |
| 10 | iP | 05 03 45.6 | C | | | | |
| 10 | iP | 07 27 38.0 | D | | | | |
| | eS | 31 36 | | | | | |
| 10 | eP | 15 28 29 | | | | | |
| 10 | eP | 19 37 52 | | | | | |
| 11 | iP | 03 35 51.2 | C | | | | |
| 11 | iP | 06 23 40.8 | C | | | | |
| 11 | iP | 07 32 47.8 | C | | | | |
| 11 | eP | 22 50 51 | | | | | |
| 12 | iP | 03 35 37.4 | D | | | | |
| 12 | iP | 03 43 12.9 | D | | | | |
| 13 | iP | 16 37 25.7 | D | | | | |

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|---|---|---|---|---|---|---|---|
| MEEKATHARRA (MEK) Cont. | | | | | | | |
| December. | | | | | | | |
| 13 | iP | 21 46 22.3 | D | | | | |
| 14 | iP | 09 45 53.7 | C | | | | |
| 14 | eP | 12 01 02 | | | | | |
| 14 | iP | 12 42 05.0 | D | | | | |
| 15 | eP | 08 42 54 | | | | | |
| 15 | eP | 08 51 08 | | | | | |
| | eS | 54 07 | | | | | |
| 16 | iP | 02 08 26.0 | D | | | | |
| 16 | iP | 04 29 16.2 | D | | | | |
| 17 | iP | 05 06 12.9 | D | | | | |
| 17 | iP | 09 12 20.8 | D | | | | |
| | eS | 15 32 | | | | | |
| 17 | iP | 18 05 44.1 | C | | | | |
| 17 | eP | 19 19 07 | | | | | |
| 18 | eP | 10 18 29.6 | D | | | | 300km S |
| | eS | 19 10 | | | | | Dampier ML =3.2 |
| 18 | eP | 19 35 52 | | | | | |
| 19 | iP | 06 07 35.3 | D | | | | |
| 20 | iP | 04 40 45.8 | C | | | | |
| 21 | iP | 10 06 22.2 | C | | | | |
| 21 | iP | 10 30 24.4 | | | | | Mockering |
| | | 31 16.0 | | | | | MB = 3.7 |
| 21 | eP | 13 53 45 | | | | | |
| 21 | iP | 19 30 04.8 | D | | | | |
| 22 | eP | 12 14 56 | | | | | |
| 22 | iP | 18 47 36.0 | | | | | Mockering |
| | iS | 48 30.5 | | | | | MB = 3.8 |
| 23 | iP | 11 27 16.8 | D | | | | |
| 23 | eP | 17 03 59 | | | | | |
| 23 | eP | 20 03 31 | | | | | |
| 23 | iP | 20 41 32.1 | C | | | | |
| 23 | iP | 23 55 11.4 | C | | | | |
| 24 | iP | 16 35 00.0 | C | | | | |
| | eX | 39 04 | | | | | |
| 24 | eP | 21 20 50 | | | | | |
| | eX | 22 26 | | | | | |
| 24 | eP | 22 29 10 | | | | | |
| 25 | eP | 17 57 01 | | | | | |
| | eS | 18 00 55 | | | | | |
| 25 | iP | 21 21 35.4 | D | | | | |
| 26 | iP | 00 06 20.3 | C | | | | |
| 26 | eP | 00 31 40 | | | | | |
| | eX | 35 35 | | | | | |
| 27 | eP | 06 43 32 | | | | | |
| | eS | 46 04 | | | | | |
| 27 | iP | 11 10 41.8 | D | | | | |
| 27 | iP | 20 57 53.3 | C | | | | |
| 28 | iP | 22 49 00.1 | C | | | | |
| 29 | eP | 22 36 41 | | | | | |
| 30 | eP | 06 33 32 | | | | | |
| 30 | iP | 15 46 50.8 | C | | | | |
| 31 | eP | 07 02 50 | | | | | |
| | eX | 06 53 | | | | | |
| 31 | iP | 14 44 17.0 | C | | | | |
| 31 | iP | 21 00 17.3 | C | | | | |
| | eS | 03 16 | | | | | |
| 31 | eP | 22 43 12 | | | | | |
| | eX | 47 45 | | | | | |

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|---|---|---|---|---|---|---|---|
| **KARRATHA (KAA)** | | | | | | | |
| December. | | | | | | | |
| 01 | | Nil | | | | | |
| 02 | iP | 17 29 53.2 | C | | | | |
| 02 | iP | 18 48 56.2 | C | | | | |
| 03 | | Nil | | | | | |
| 04 | | Blank record | | | | | |
| 05 | | Nil | | | | | |
| 06 | | Blank record | | | | | |
| 07 | iP | 06 28 46.0 | C | | | | |
| 07 | iP | 12 23 54.5 | C | | | | |
| 08 | | Nil | | | | | |
| 09 | eP | 01 41 51 | | | | | |
| 09 | iP | 15 10 14.5 | D | | | | |
| 10 | iP | 07 26 58.0 | D | | | | |
| 11 | iP | 03 35 08.3 | D | | | | |
| 11 | eP | 07 32 42 | | | | | |
| 12-14 | | Nil | | | | | |
| 15 | iP | 08 42 32.7 | C | | | | |
| 16 | iP | 02 07 47.0 | D | | | | |
| | iX | 11 04.1 | | | | | |
| 17 | iP | 09 11 01.0 | D | | | | |
| | eS | 13 12 | | | | | |
| 17 | iP | 18 05 35.8 | D | | | | |
| 17 | eP | 19 18 50 | | | | | |
| 18 | eP | 10 18 20 | | | | | |
| | eS | 18 52 | | | | | ML = 3.3 |
| 18 | iP | 22 10 28.8 | C | | | | 300km S Dampier |
| 19 | eP | 06 07 46 | | | | | |
| 20 | | Blank record | | | | | |
| 21 | iP | 19 29 16.0 | C | | | | |
| 22 | eP | 12 13 11 | | | | | |
| 23 | iP | 17 03 14.0 | C | | | | |
| 24 | iP | 21 22 44.4 | D | | | | |
| 24 | eP | 22 29 04 | | | | | |
| 25 | iP | 17 56 18.9 | C | | | | |
| 26 | eP | 00 30 37 | | | | | |
| 26 | iP | 04 31 59.3 | D | | | | |
| 26 | iP | 15 58 24.0 | C | | | | |
| 27 | iP | 11 10 59.3 | D | | | | |
| 28 | eP | 22 48 16 | | | | | |
| 29 | iP | 22 36 00.0 | D | | | | |
| 30 | iP | 15 46 41.9 | C | | | | |
| | eX | 47 05 | | | | | |
| 31 | eP | 14 45 05 | | | | | |
| 31 | eP | 20 58 58 | | | | | |
| | eX | 21 00 57 | | | | | |
| 31 | iP | 22 42 25.7 | C | | | | |

P.J. Gregson,
Observer-in-Charge.

International Seismological Centre