



Basic Climatological Station Metadata
Current status

Metadata compiled: 28 JUL 2025

Station: COONAWARRA

Bureau of Meteorology station number: 026091
Bureau of Meteorology district name: Lower Southeast
State: SA

World Meteorological Organization number: 94817
Identification: COOW

Network Classification:
Station purpose: Synoptic, Aeronautical
Automatic Weather Station: Almos



| Current Station Location | | | | |
|--|---------|------------------|--------------|-------------|
| Latitude | Decimal | -37.2906 | Hour Min Sec | 37°17'26"S |
| Longitude | Decimal | 140.8254 | Hour Min Sec | 140°49'31"E |
| Station Height | 57 m | Barometer Height | 57.5 m | |
| Method of station geographic positioning | | | GPS | |

Year opened: 1985
Status: Open

Station summary

No summary for this site has been written as yet.

Historical metadata for this site has not been quality controlled for accuracy and completeness. Data other than current station information, particularly earlier than 1998, should be considered accordingly. Information may not be complete, as backfilling of historical data is incomplete.



Basic Climatological Station Metadata
Current status

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| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Opened: | 26 Sep 1985 |
| | | Elevation: | 57 m | Barometer Elev: | 57.5 m |
| | | | | Current Status: | Still open |
| | | | | Metadata compiled: | 28 JUL 2025 |

Observation summary

The table below indicates the approximate completeness of the record for individual element types within the Australian Data Archive for Meteorology. For elements not listed see the note below.



DAILY DATA HOLDINGS

| OBSERVATION TYPE | FIRST MONTH | LAST MONTH | COMPLETENESS (% estimate) | SINGLE DAYS MISSED | FULL MONTHS MISSED |
|--|-------------|------------|---------------------------|--------------------|--------------------|
| EVAPORATION | OCT 1985 | DEC 2023 | 71.4 | 2290 | 56 |
| EVAPORIMETER - MAXIMUM WATER TEMPERATURE | MAR 2006 | FEB 2008 | 64.2 | 261 | 0 |
| GROUND MINIMUM TEMPERATURE | OCT 1985 | SEP 2012 | 84.0 | 1206 | 12 |
| MAXIMUM AIR TEMPERATURE | OCT 1985 | JUN 2025 | 98.7 | 183 | 0 |
| MAXIMUM WIND GUST SPEED | JAN 2001 | JUN 2025 | 78.8 | 402 | 49 |
| WIND RUN ABOVE 10 FEET | JAN 2001 | JUN 2025 | 64.2 | 367 | 93 |
| WIND RUN BELOW 10 FEET | MAR 2006 | DEC 2024 | 40.5 | 1839 | 74 |
| RAINFALL | SEP 1985 | JUL 2025 | 92 | N/A | N/A |

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HOURLY DATA HOLDINGS - from 1 to 24 observations per day

| OBSERVATION TYPE | FIRST MONTH | LAST MONTH | COMPLETENESS (% estimate) | FREQUENCY average daily | SINGLE DAYS MISSED | FULL MONTHS MISSED |
|-------------------------|-------------|------------|------------------------------|----------------------------|--------------------------|--------------------------|
| AIR TEMPERATURE | MAR 1985 | JUN 2025 | 97.1 | 12.9 | 102 | 6 |
| | | | | | | |
| DEW POINT | MAR 1985 | JUN 2025 | 96.2 | 12.9 | 135 | 8 |
| | | | | | | |
| MEAN SEA LEVEL PRESSURE | MAR 1997 | JUN 2025 | 97.5 | 17.3 | 133 | 0 |
| | | | | | | |
| SOIL TEMPERATURE - 10cm | MAR 2006 | SEP 2012 | 53.4 | 1.1 | 900 | 5 |
| | | | | | | |
| TOTAL CLOUD AMOUNT | MAR 1985 | APR 2012 | 80.8 | 1.8 | 1307 | 9 |
| | | | | | | |
| WIND SPEED | MAR 1985 | JUN 2025 | 97.1 | 12.9 | 102 | 6 |
| | | | | | | |

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RAINFALL INTENSITY DATA HOLDINGS

| OBSERVATION TYPE | FIRST MONTH | LAST MONTH | COMPLETENESS (% estimate) | SINGLE DAYS MISSED | FULL MONTHS MISSED |
|--------------------|-------------|------------|------------------------------|-----------------------|-----------------------|
| RAINFALL INTENSITY | SEP 1985 | JUN 2017 | 84.4 | 617 | 39 |
| | | | | | |

ONE-MINUTE DATA HOLDINGS

| OBSERVATION TYPE | FIRST MONTH | LAST MONTH | COMPLETENESS (% estimate) | FREQUENCY average daily | SINGLE DAYS MISSED | FULL MONTHS MISSED |
|------------------|-------------|------------|------------------------------|----------------------------|-----------------------|-----------------------|
| ALL ELEMENTS | JUN 2012 | JUL 2025 | 99.8 | 1436.7 | N/A | 0 |

HALF-HOURLY DATA HOLDINGS

| OBSERVATION TYPE | FIRST MONTH | LAST MONTH | COMPLETENESS (% estimate) | FREQUENCY average daily | SINGLE DAYS MISSED | FULL MONTHS MISSED |
|------------------|-------------|------------|------------------------------|----------------------------|-----------------------|-----------------------|
| ALL ELEMENTS | AUG 1997 | JUL 2025 | 89.1 | 42.8 | N/A | 0 |

THERE ARE NO UPPER-AIR EDT DATA HOLDINGS

Holdings calculated up to 01 Jul 2025

The % complete figure is the completeness of observations averaged over all months of record, for the given station and observation type, taking gaps into account. For hourly holdings, the completeness is relative to the maximum number of daily observations for the site each month, and is therefore an estimate. For daily holdings, the completeness figure shown is exact.

The single days missed figure is the total number of days for which no observation was received, not including full missed months. The full months missed figure is the total of full month gaps over the period of record. Where an element is not included assumptions can generally be made about availability, and the list to use has been suggested below.

Unlisted element

- Minimum air temperature
- Wet bulb temperature
- Soil temperature at 20, 50 & 100cm
- Relative humidity
- Minimum temp. of water in evaporimeter
- Visual observations eg. weather, visibility
- Sea related observations

Listed element to use

- Maximum air temperature
- Dew point
- 10cm soil temperature
- Dew point
- Evaporimeter - max water temp
- Total cloud amount
- Sea state

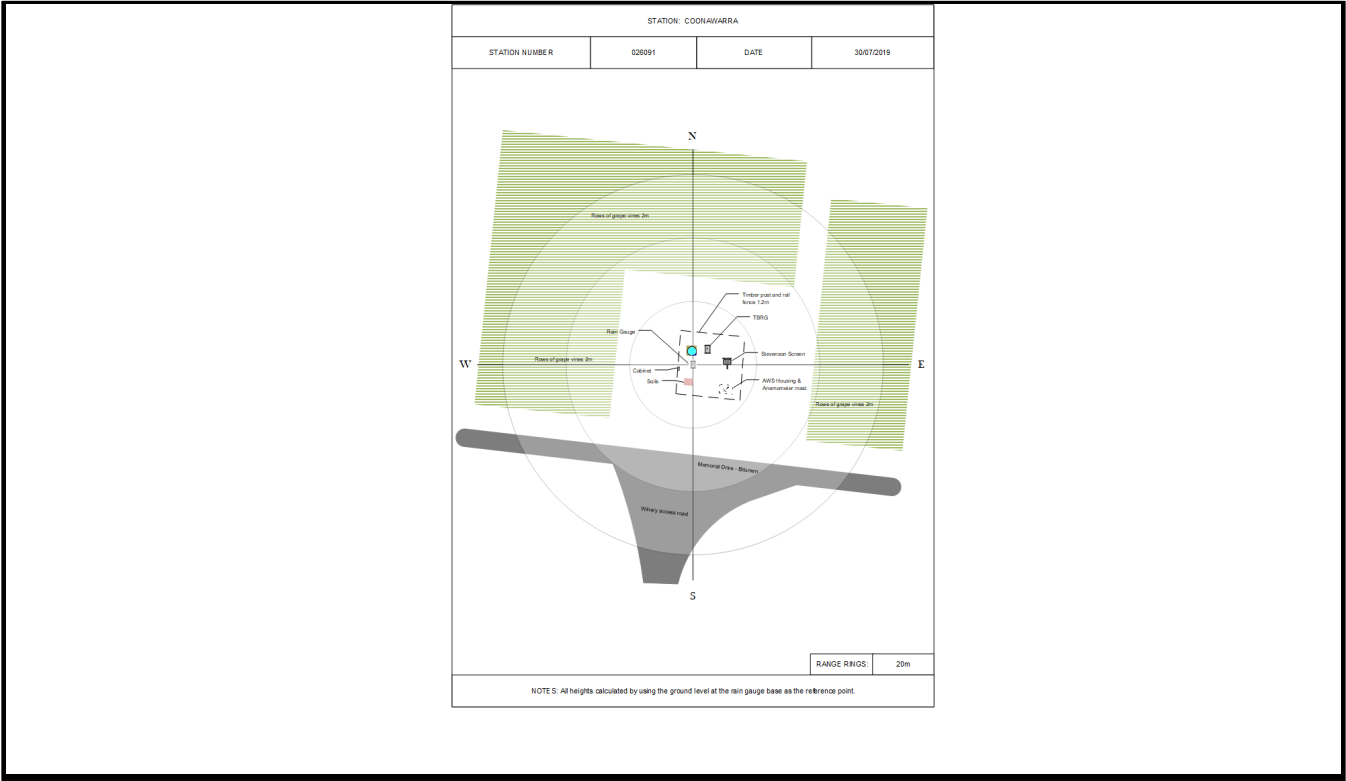
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Extended Climatological Station Metadata
All History

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| | | | | Barometer Elev: | 57.5 m | Metadata compiled: | 28 JUL 2025 |

Instrument Location and Surrounding Features
30/07/2019(most recent)



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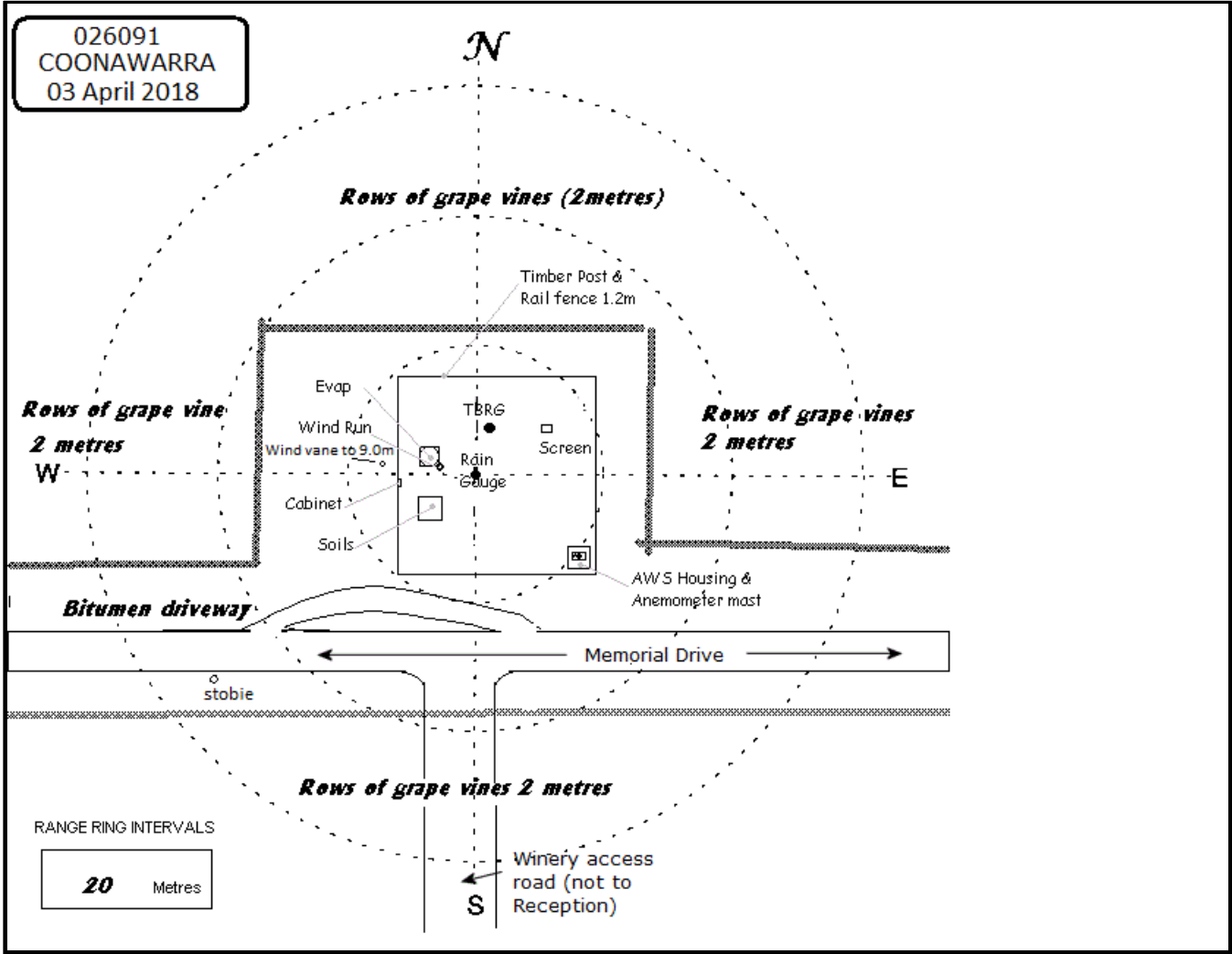
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Instrument Location and Surrounding Features
05/04/2018



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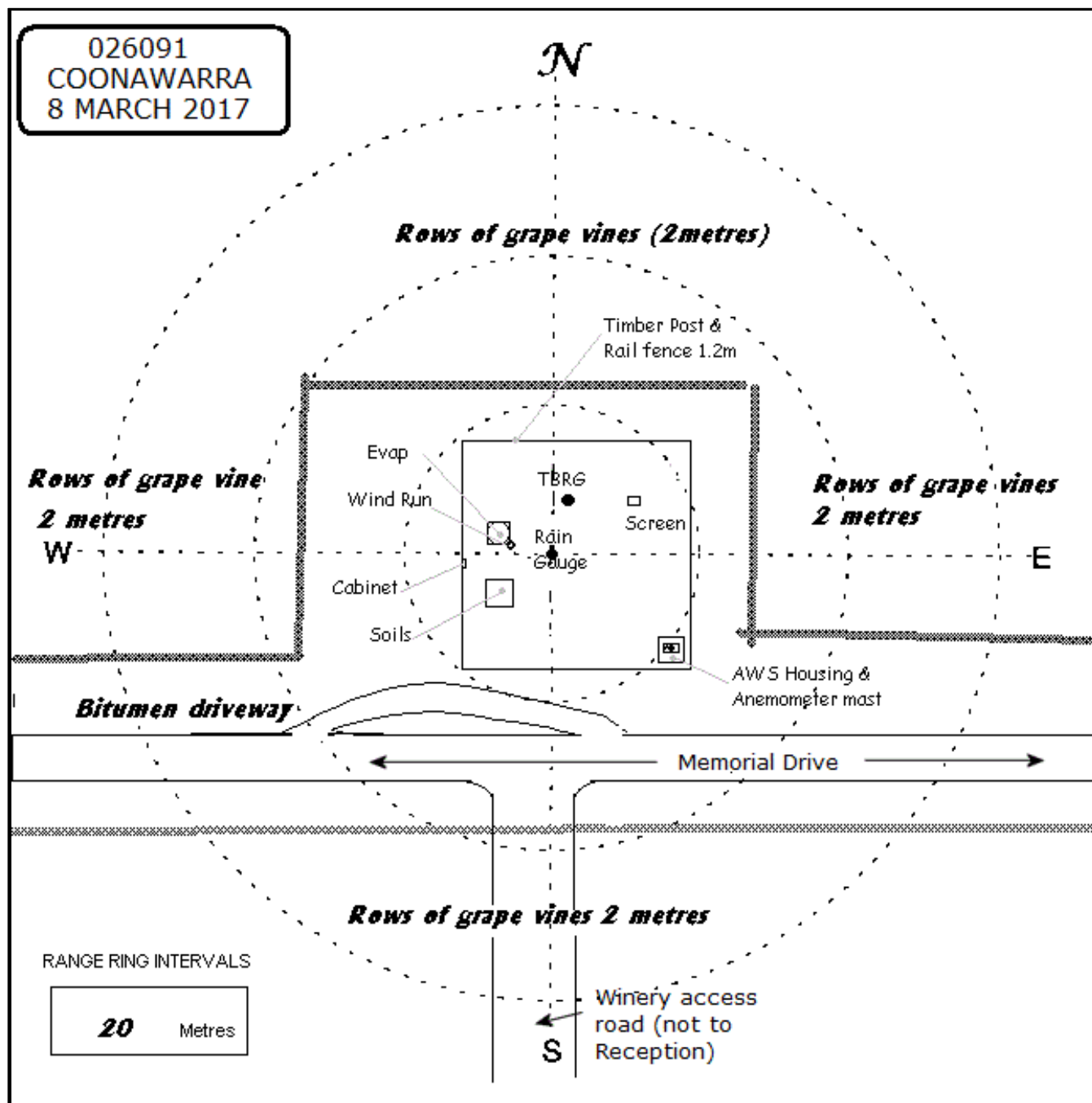
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

08/03/2017



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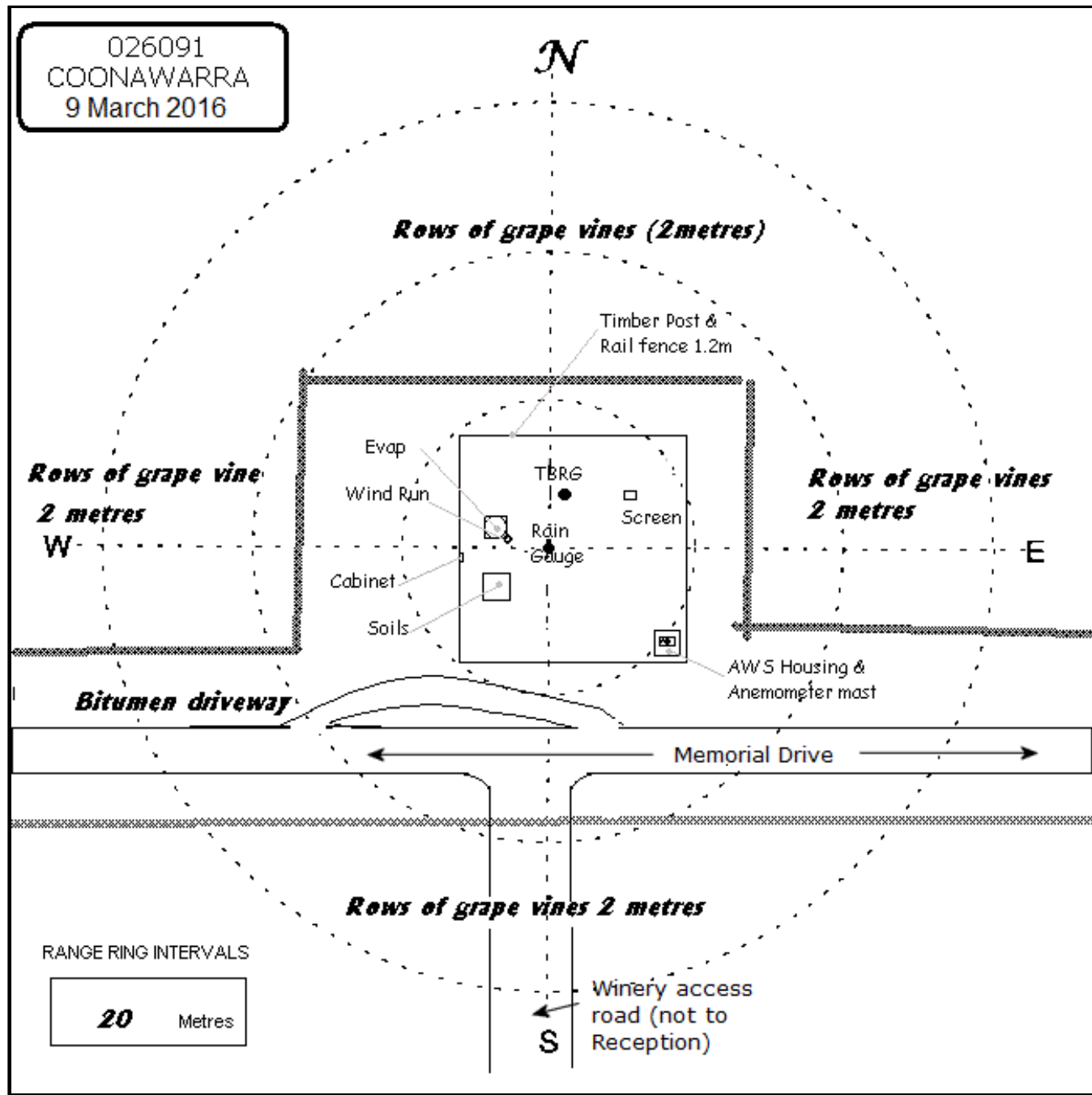
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

09/03/2016



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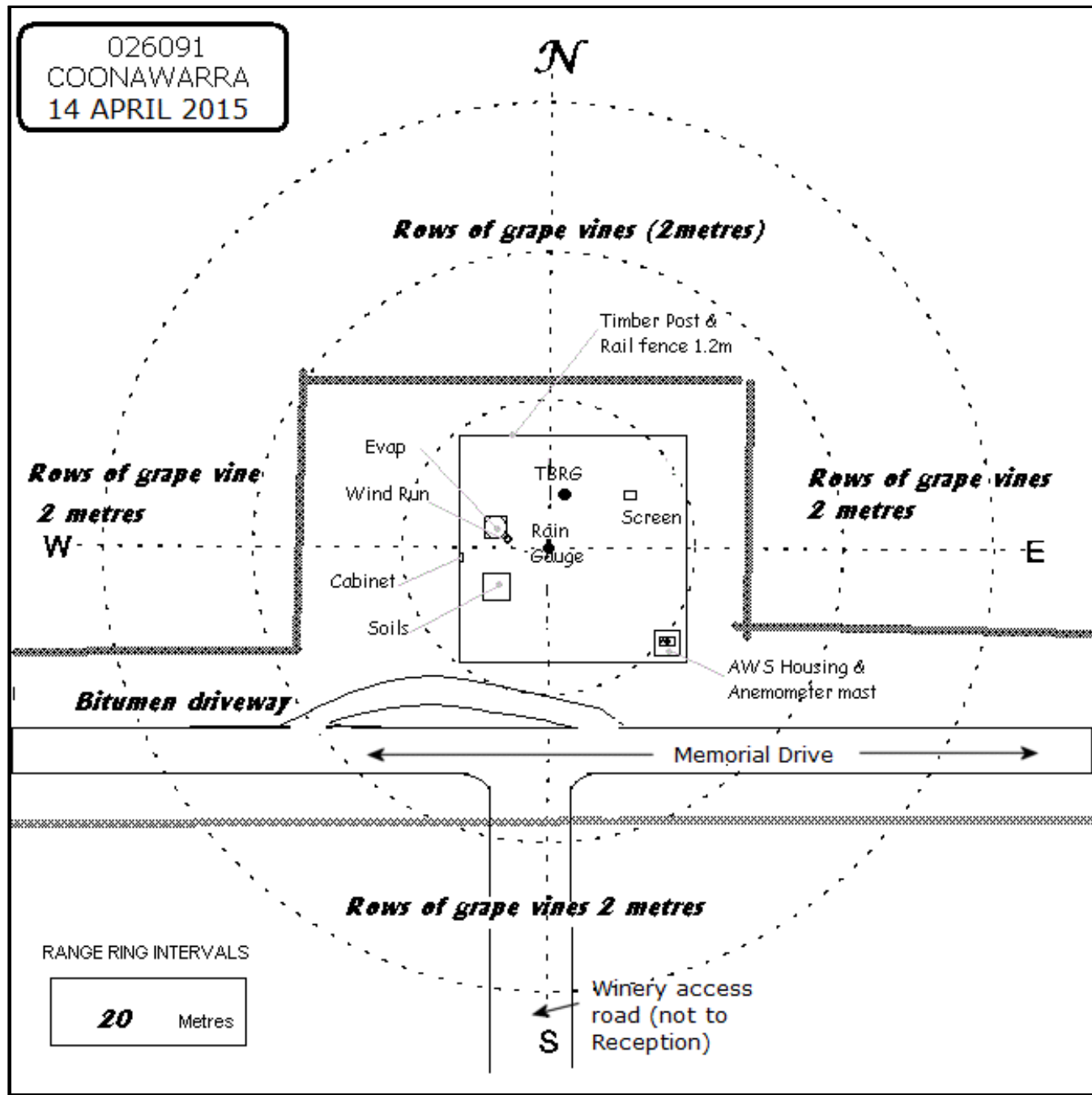
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

14/04/2015



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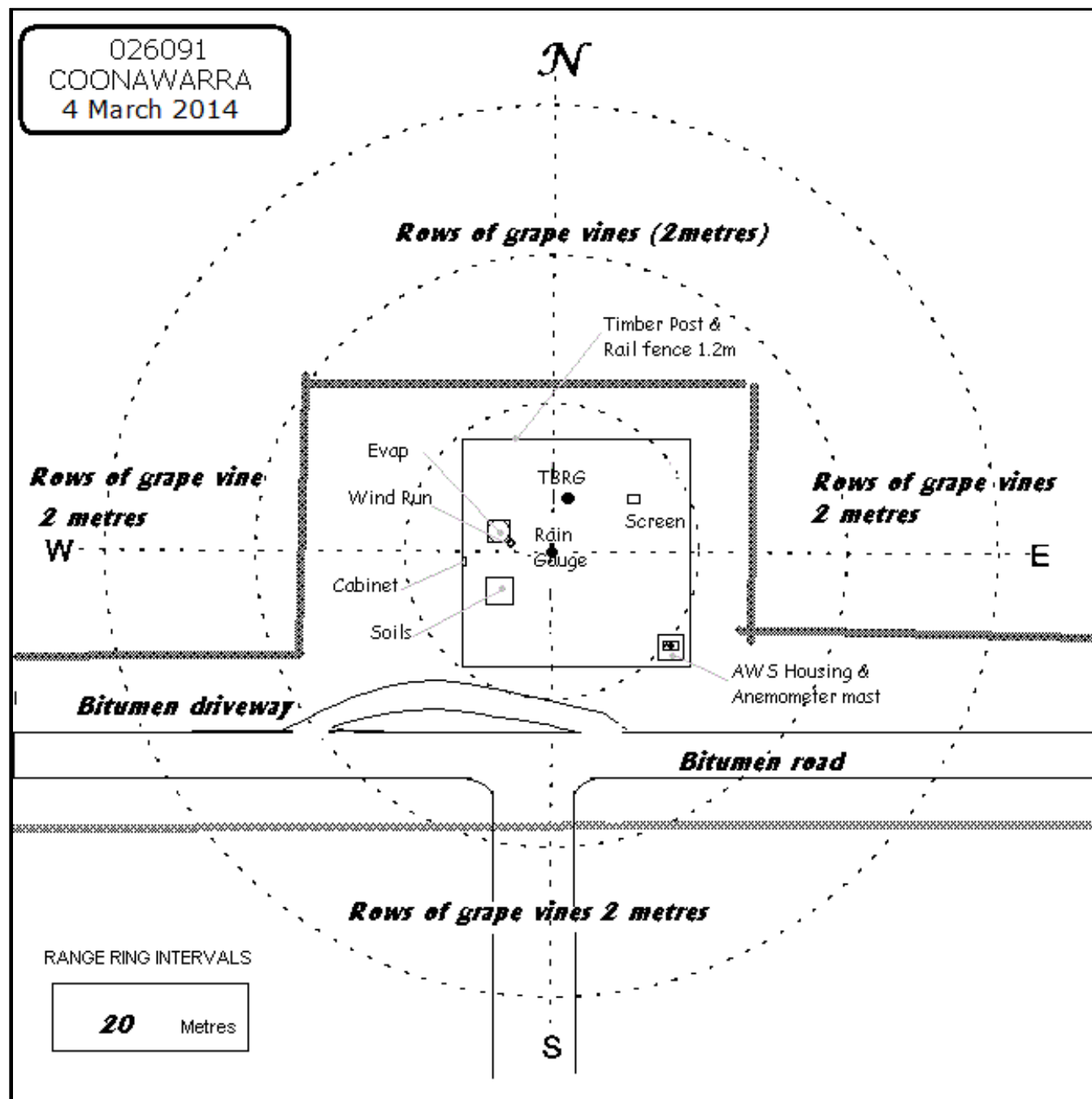
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

04/03/2014



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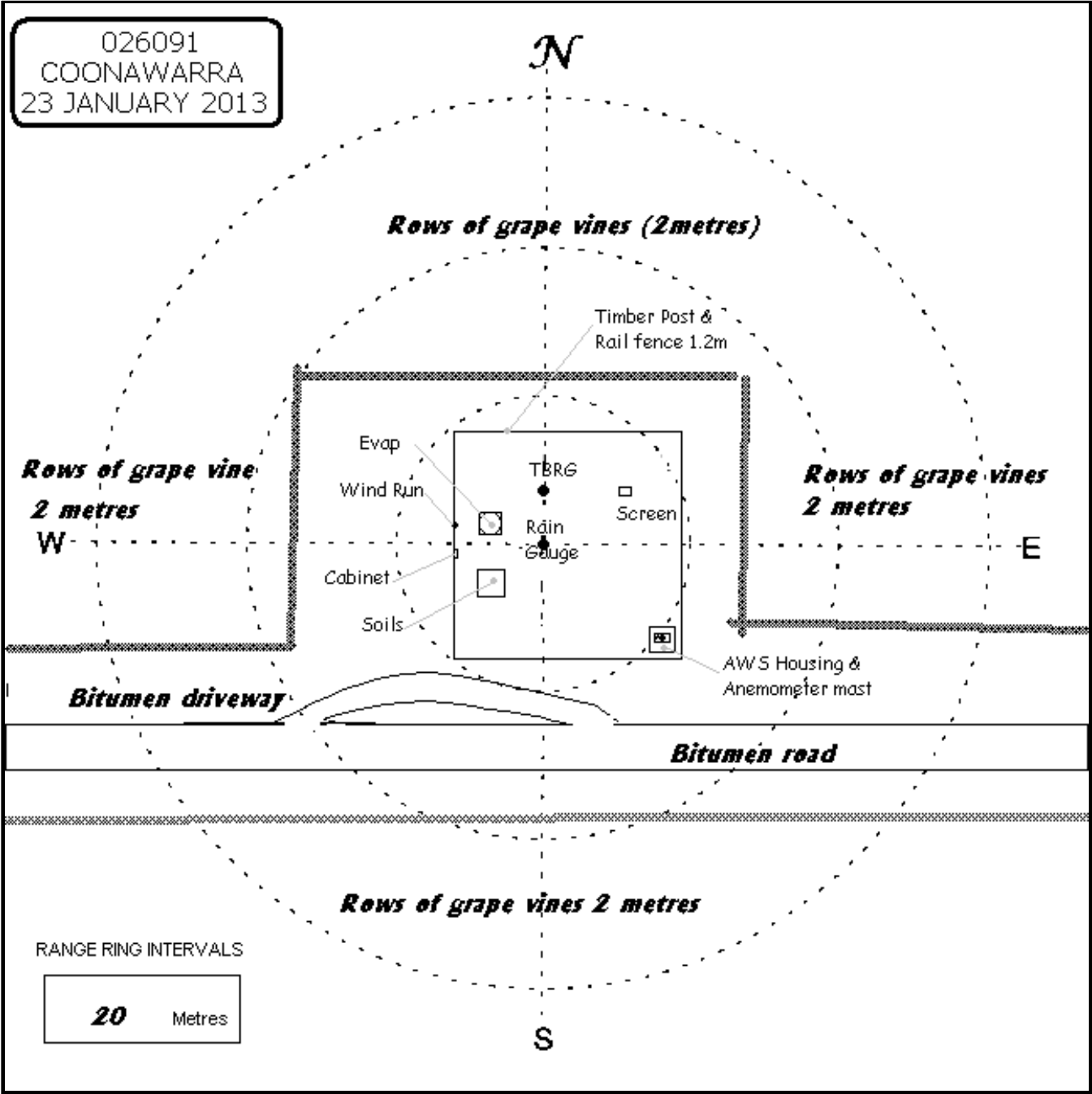
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Extended Climatological Station Metadata
All History

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Instrument Location and Surrounding Features
23/01/2013



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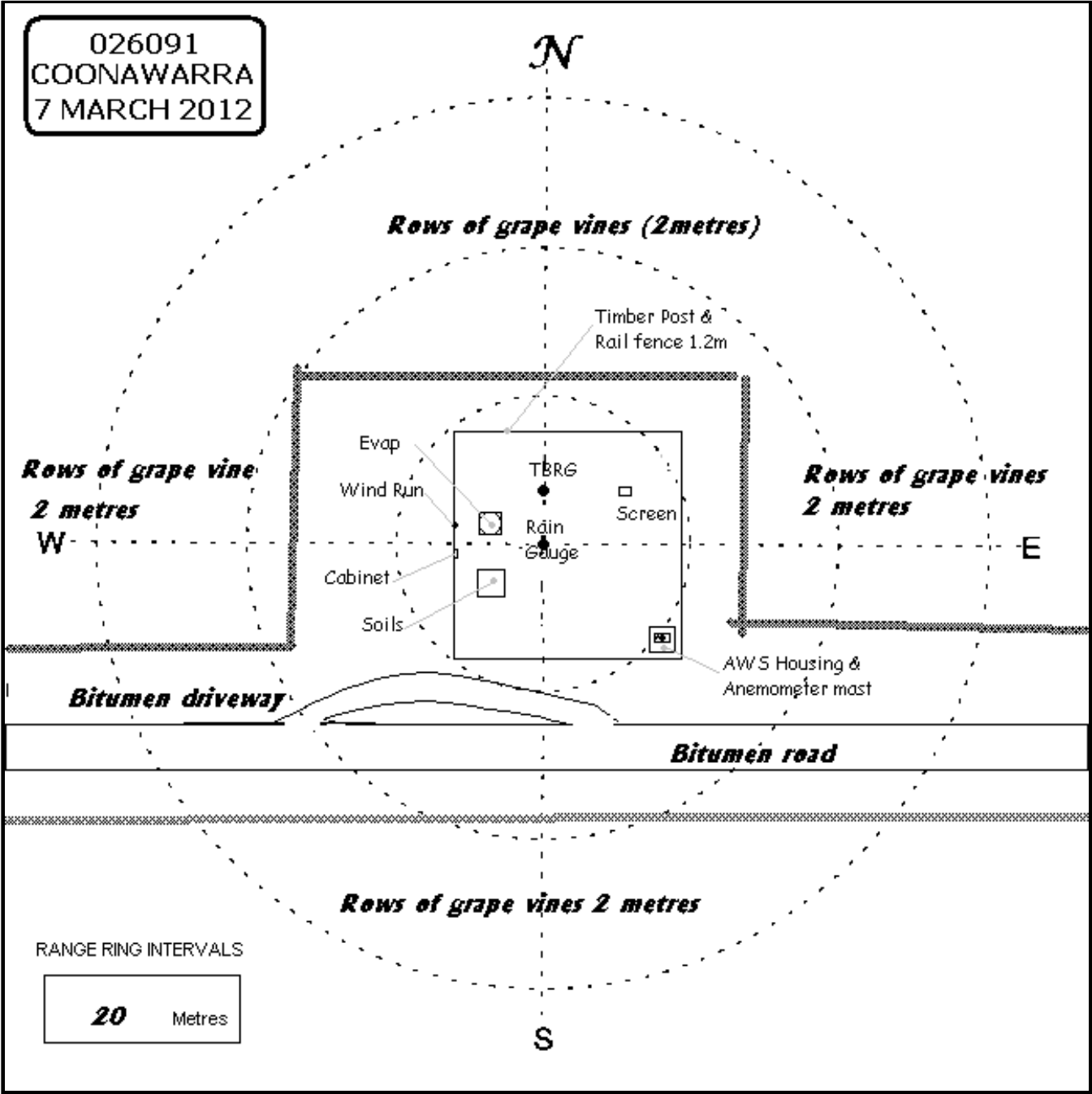
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Instrument Location and Surrounding Features
07/03/2012



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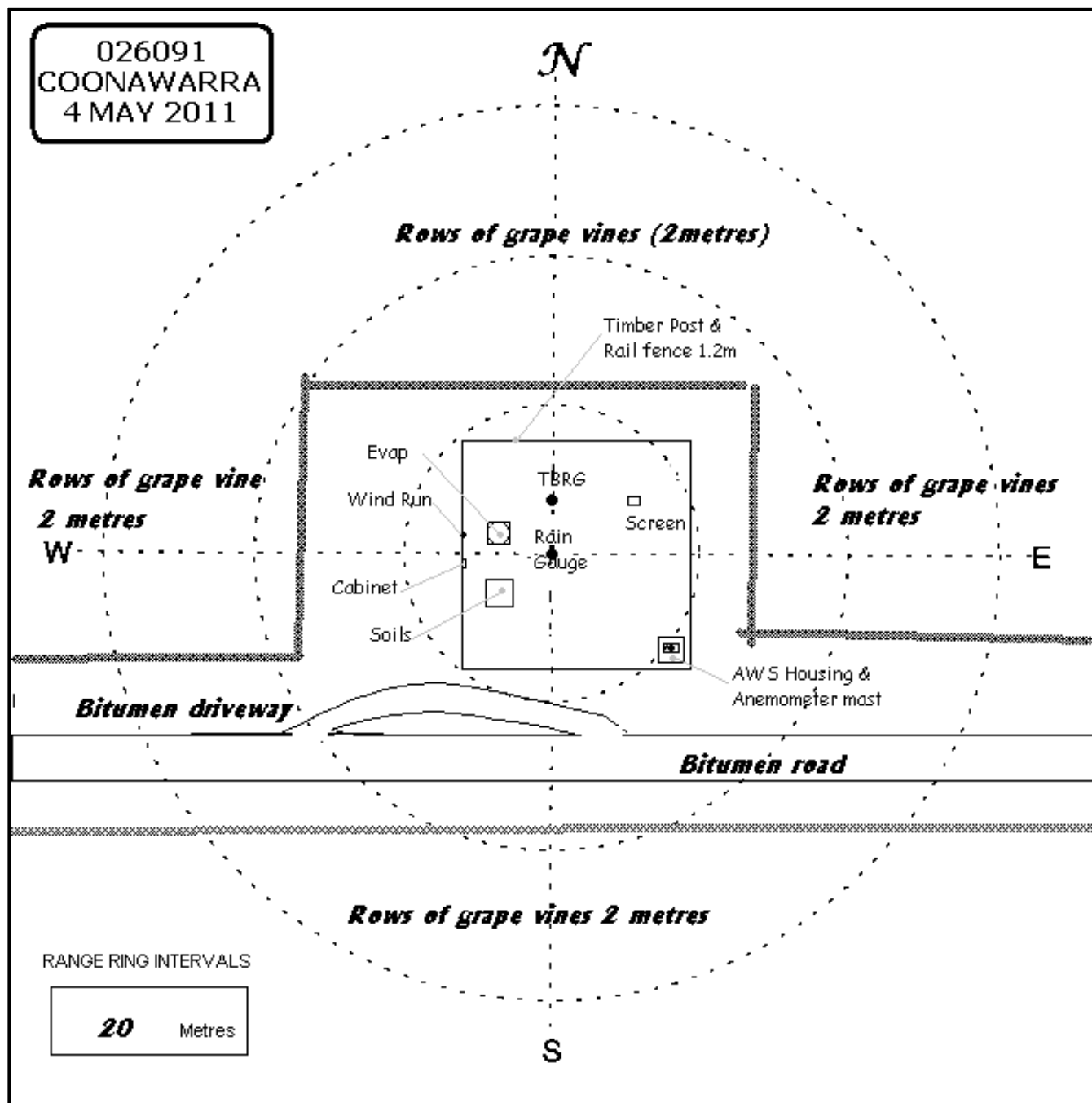
Extended Climatological Station Metadata

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Instrument Location and Surrounding Features

04/05/2011



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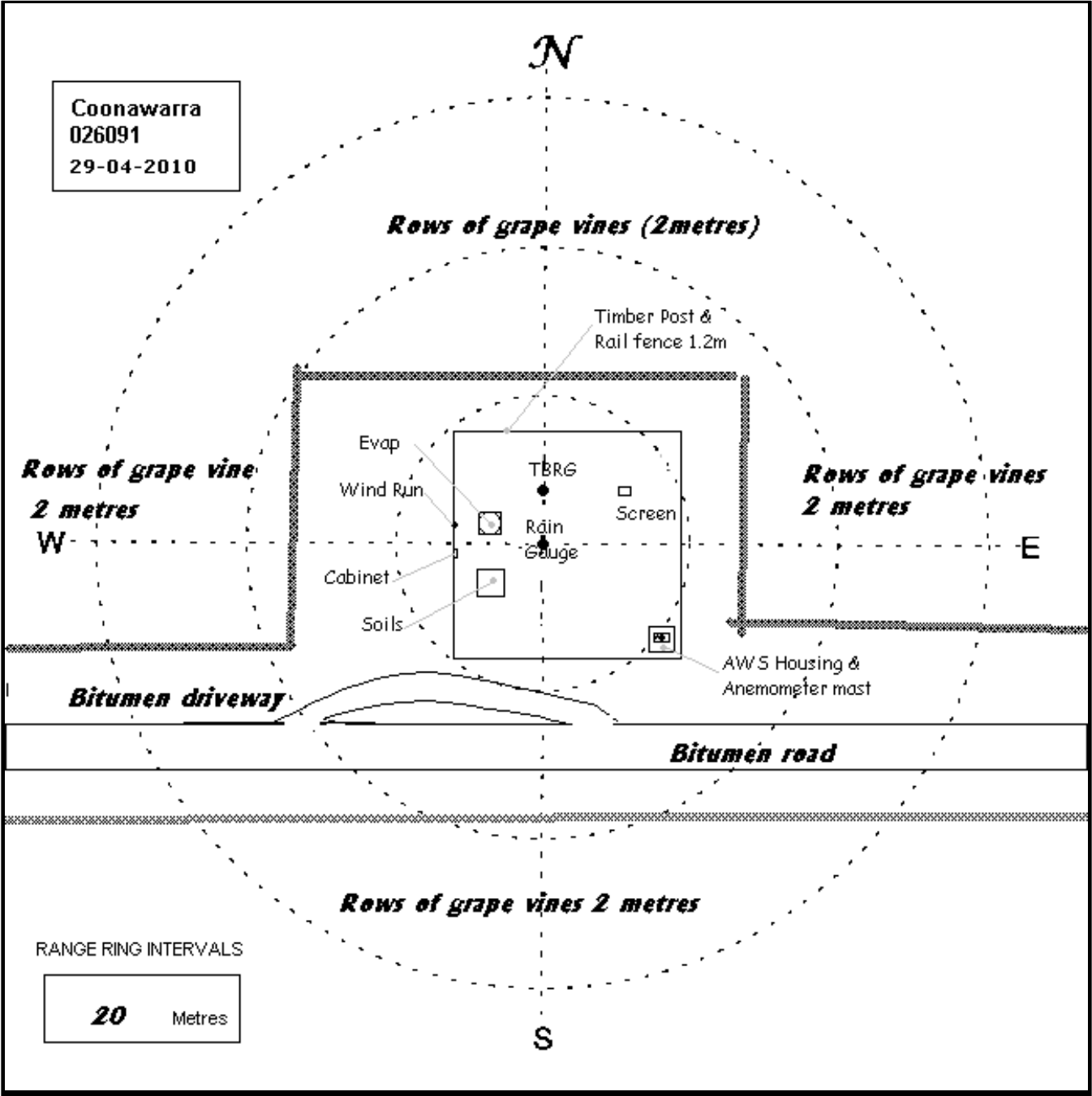
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Instrument Location and Surrounding Features
29/04/2010



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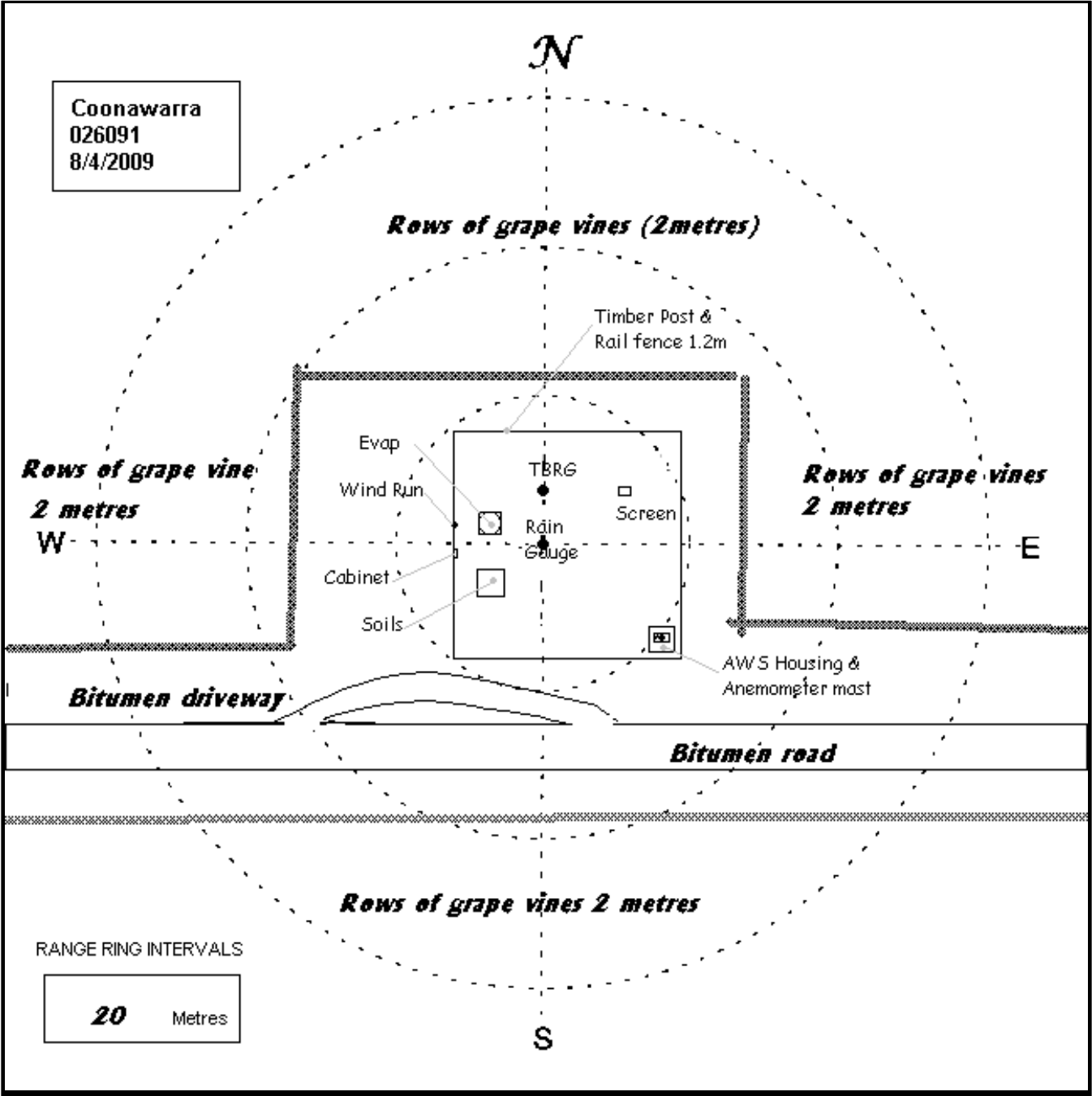
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Instrument Location and Surrounding Features
08/04/2009



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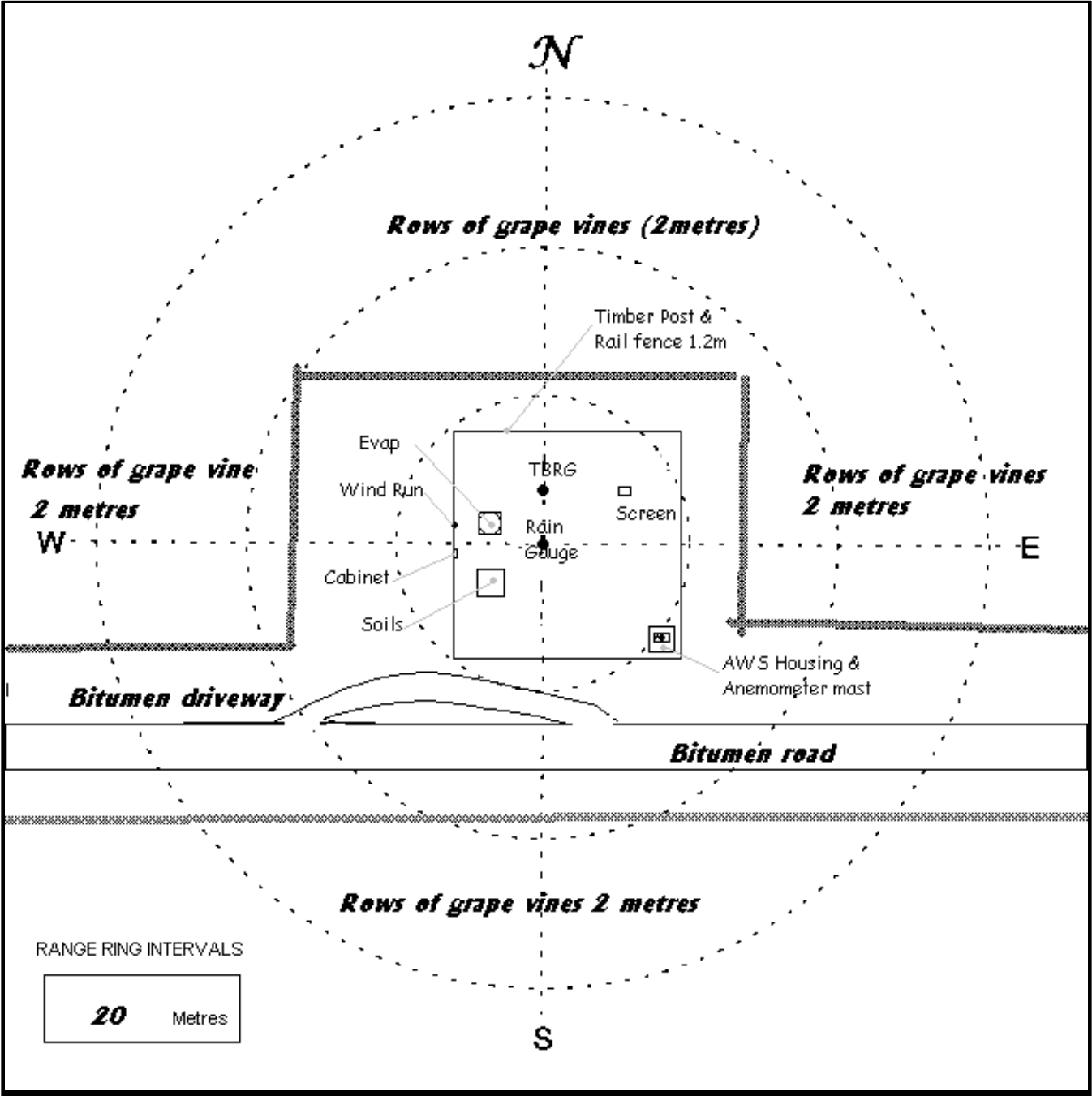
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Instrument Location and Surrounding Features
01/05/2008



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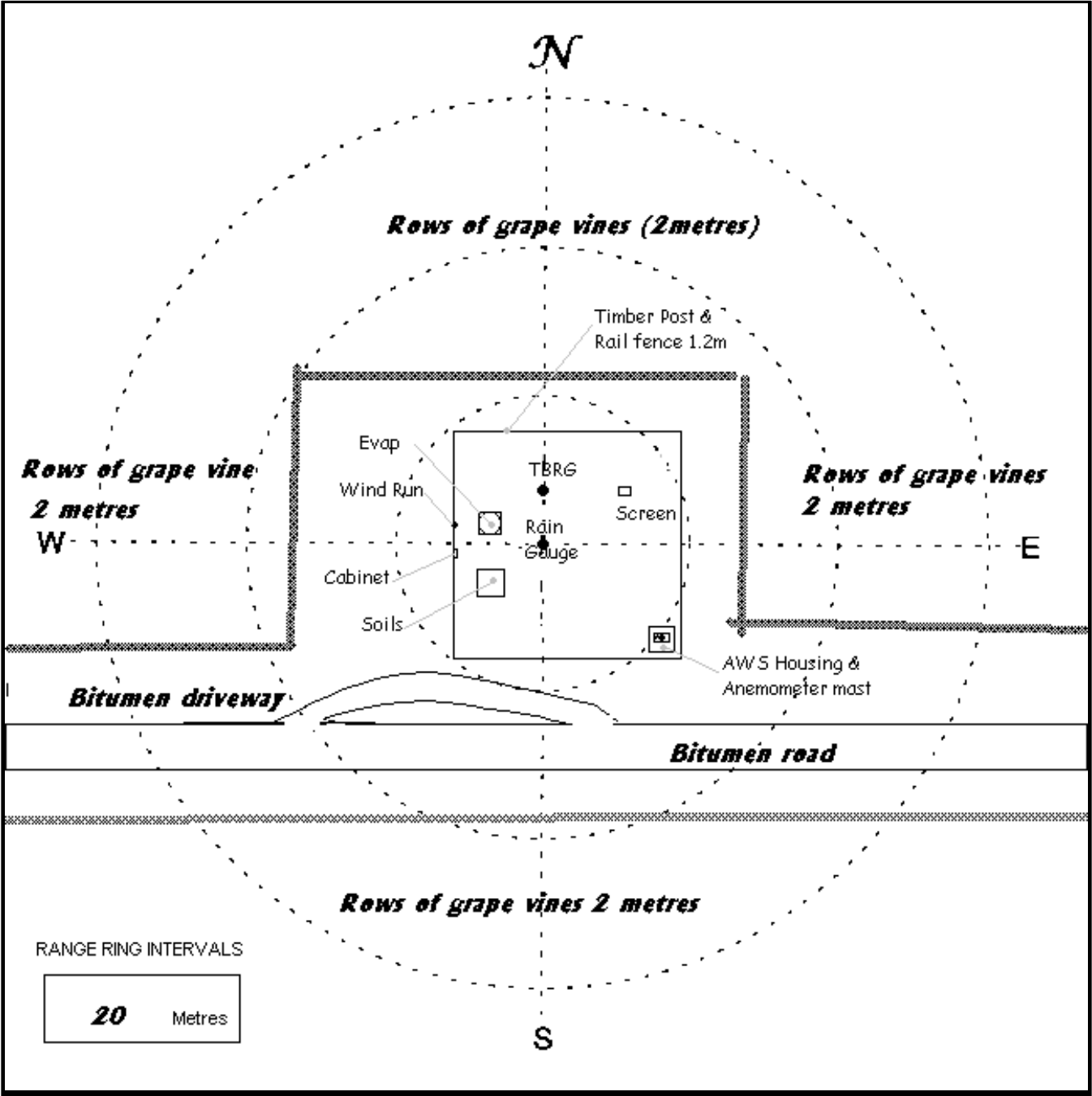
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Instrument Location and Surrounding Features
10/05/2007



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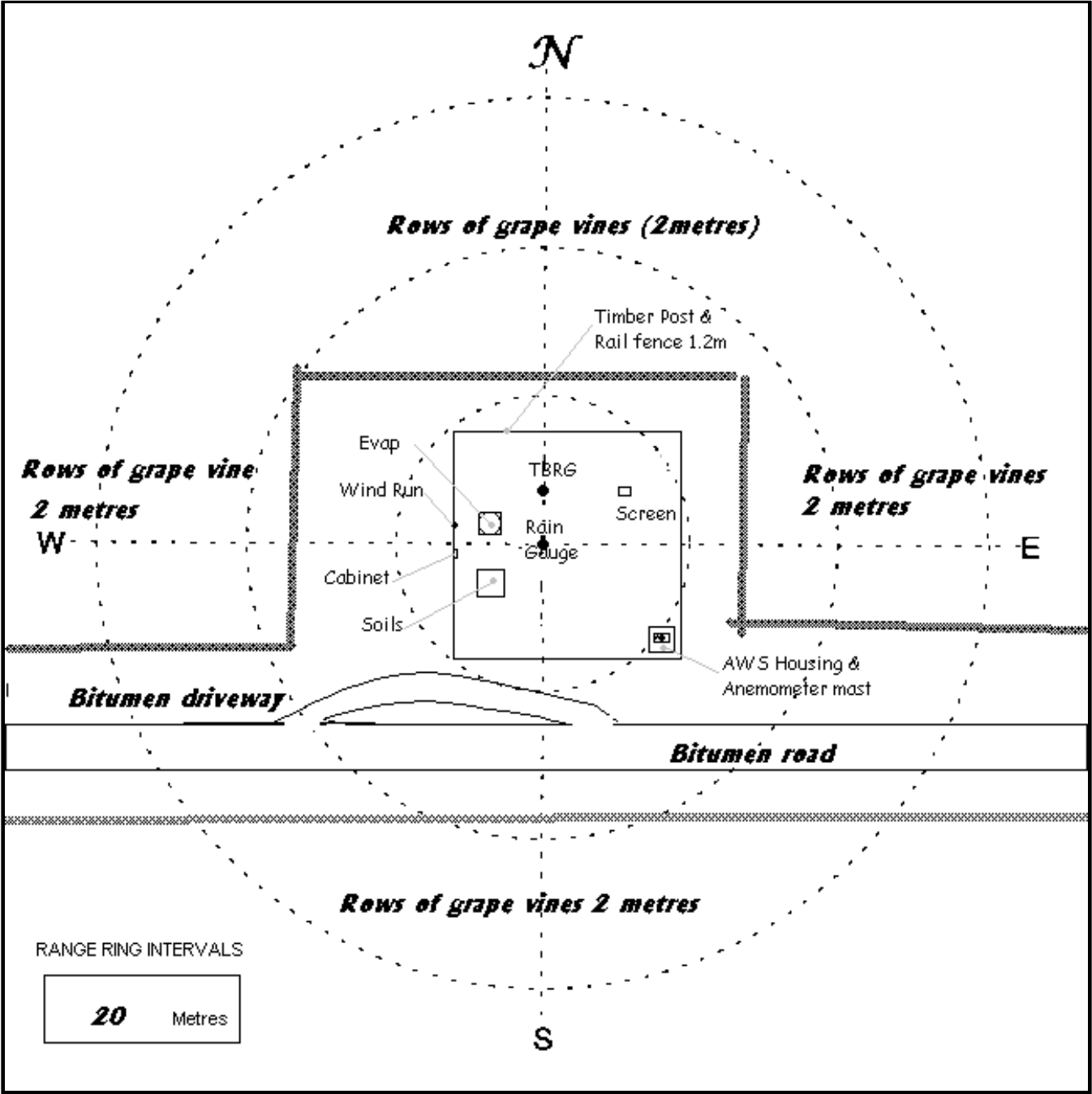
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Instrument Location and Surrounding Features

22/03/2006



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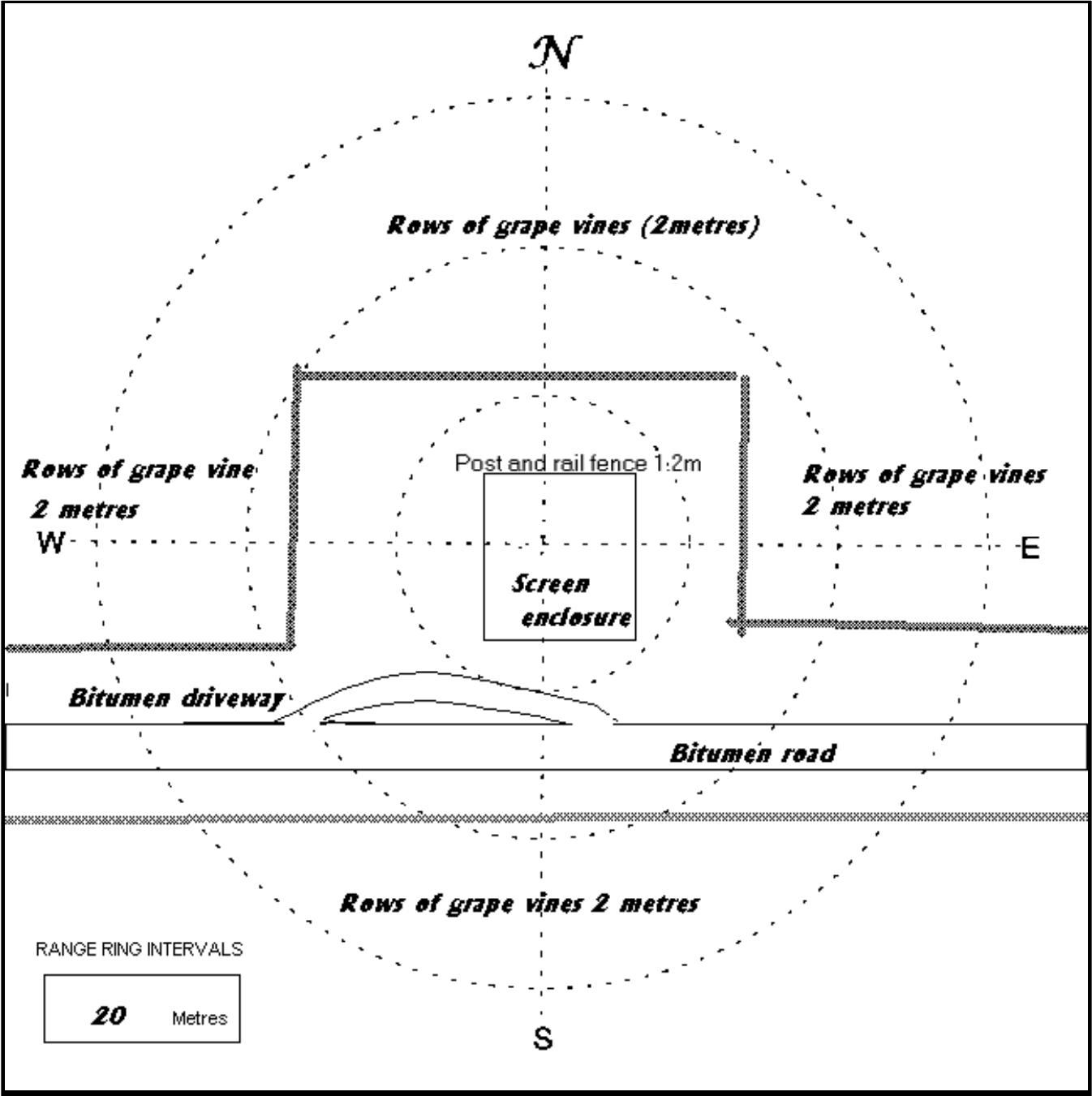
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Extended Climatological Station Metadata
All History

| | | | | | | | |
|-------------|------------|------------|-----------|--------------|------|--------------------|-------------|
| Station: | COONAWARRA | | Location: | COONAWARRA | | State: | SA |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m |
| | | | | | | Current Status: | Still open |
| | | | | | | Metadata compiled: | 28 JUL 2025 |

Instrument Location and Surrounding Features
14/04/2005



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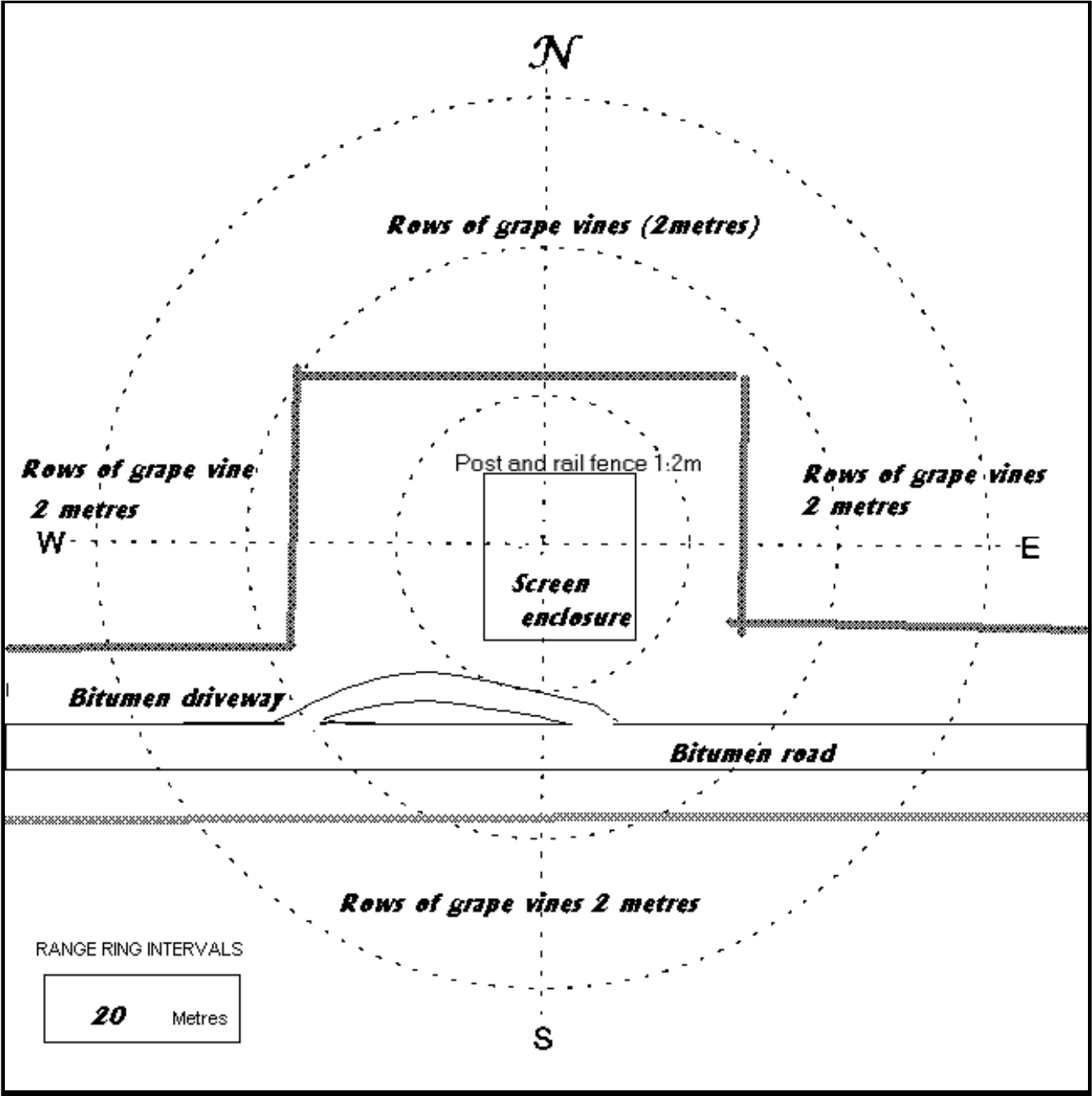
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Extended Climatological Station Metadata
All History

| | | | | | | | |
|-------------|------------|------------|-----------|--------------|------|--------------------|-------------|
| Station: | COONAWARRA | | Location: | COONAWARRA | | State: | SA |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m |
| | | | | | | Current Status: | Still open |
| | | | | | | Metadata compiled: | 28 JUL 2025 |

Instrument Location and Surrounding Features
28/03/2003



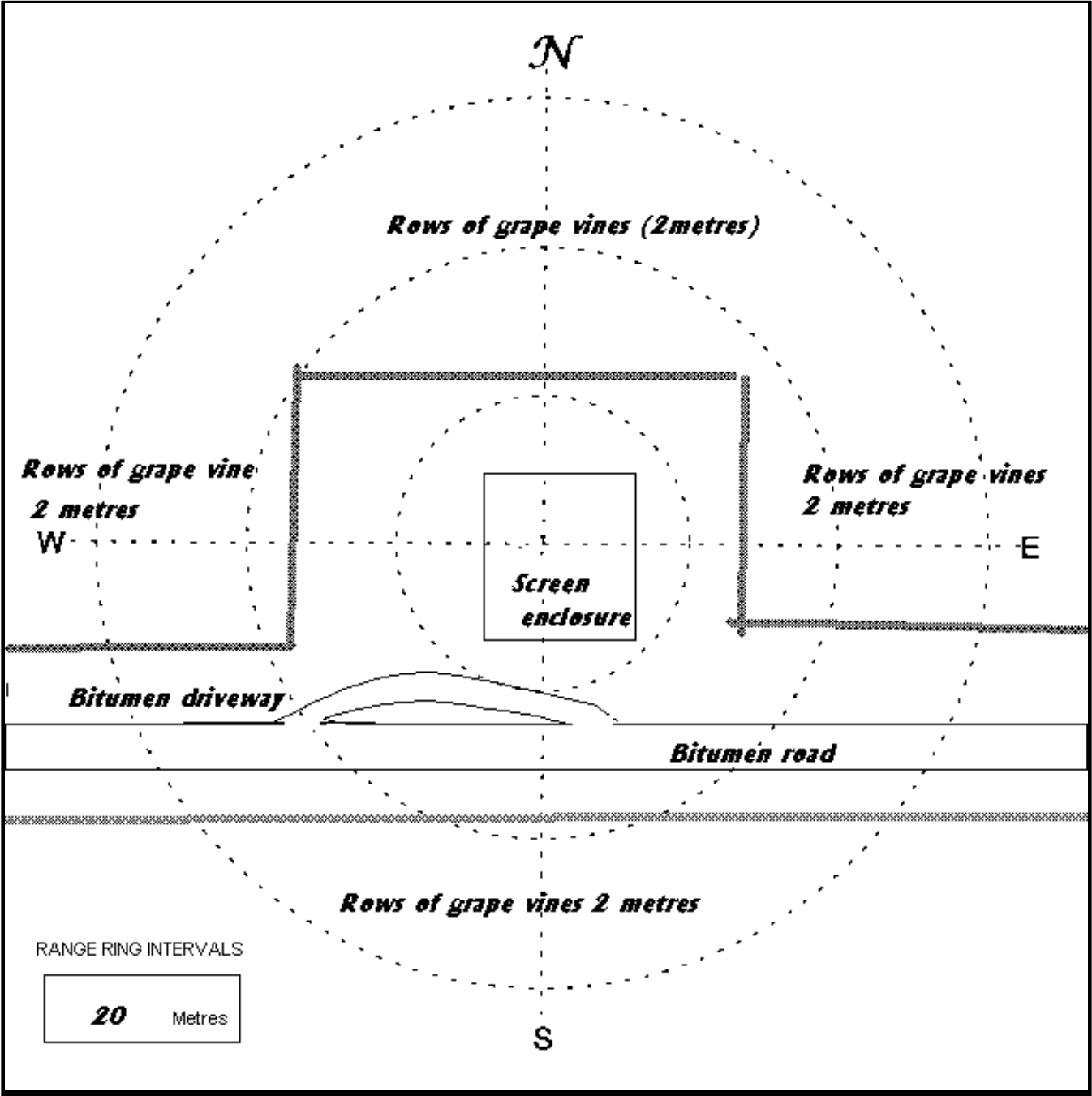
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Extended Climatological Station Metadata
All History

| | | | | | | | | | |
|----------------------------|----------|-------------------|-----------------------------|---------------------|------|------------------------|-------------|---------------------------|-------------|
| Station: COONAWARRA | | | Location: COONAWARRA | | | State: SA | | | |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 | Current Status: | Still open |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m | Metadata compiled: | 28 JUL 2025 |

Instrument Location and Surrounding Features
13/03/1998



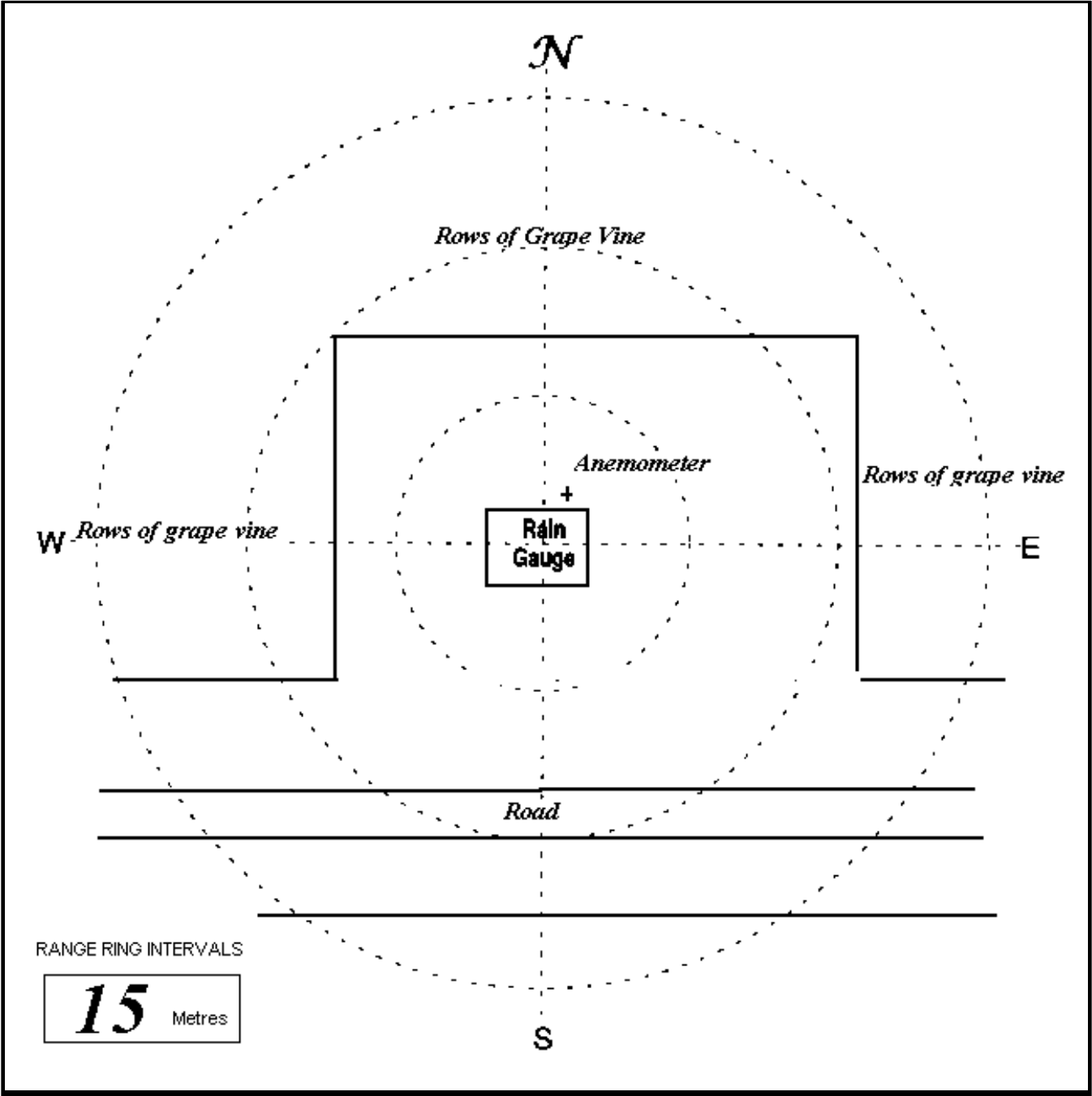
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Extended Climatological Station Metadata
All History

| | | | | | | | |
|-------------|------------|------------|-----------|--------------|------|--------------------|-------------|
| Station: | COONAWARRA | | Location: | COONAWARRA | | State: | SA |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m |
| | | | | | | Current Status: | Still open |
| | | | | | | Metadata compiled: | 28 JUL 2025 |

Instrument Location and Surrounding Features
13/11/1991



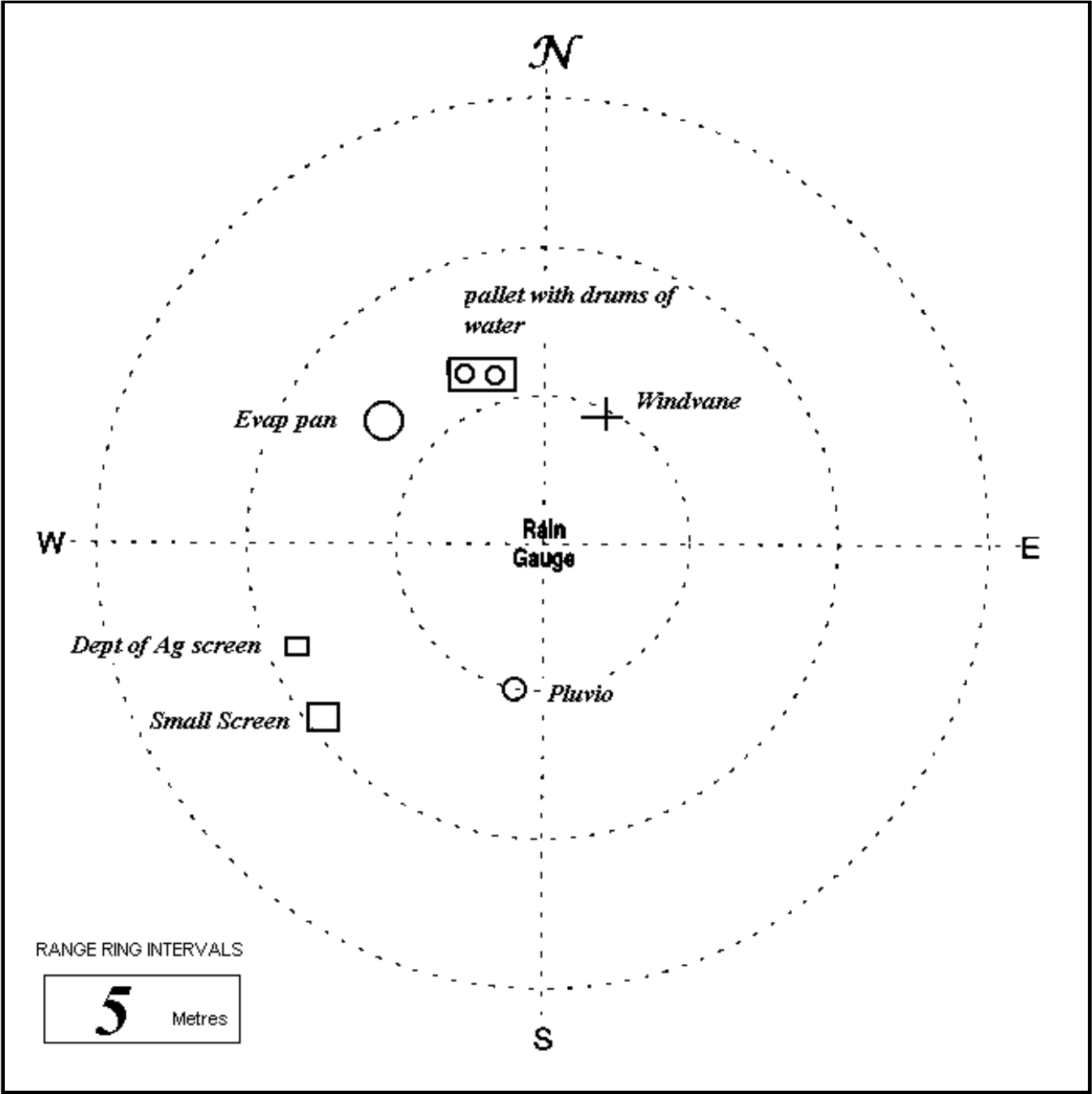
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Extended Climatological Station Metadata
All History

| | | | | | | | |
|-------------|------------|------------|-----------|--------------|------|--------------------|-------------|
| Station: | COONAWARRA | | Location: | COONAWARRA | | State: | SA |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m |
| | | | | | | Current Status: | Still open |
| | | | | | | Metadata compiled: | 28 JUL 2025 |

Instrument Location and Surrounding Features
26/05/1988



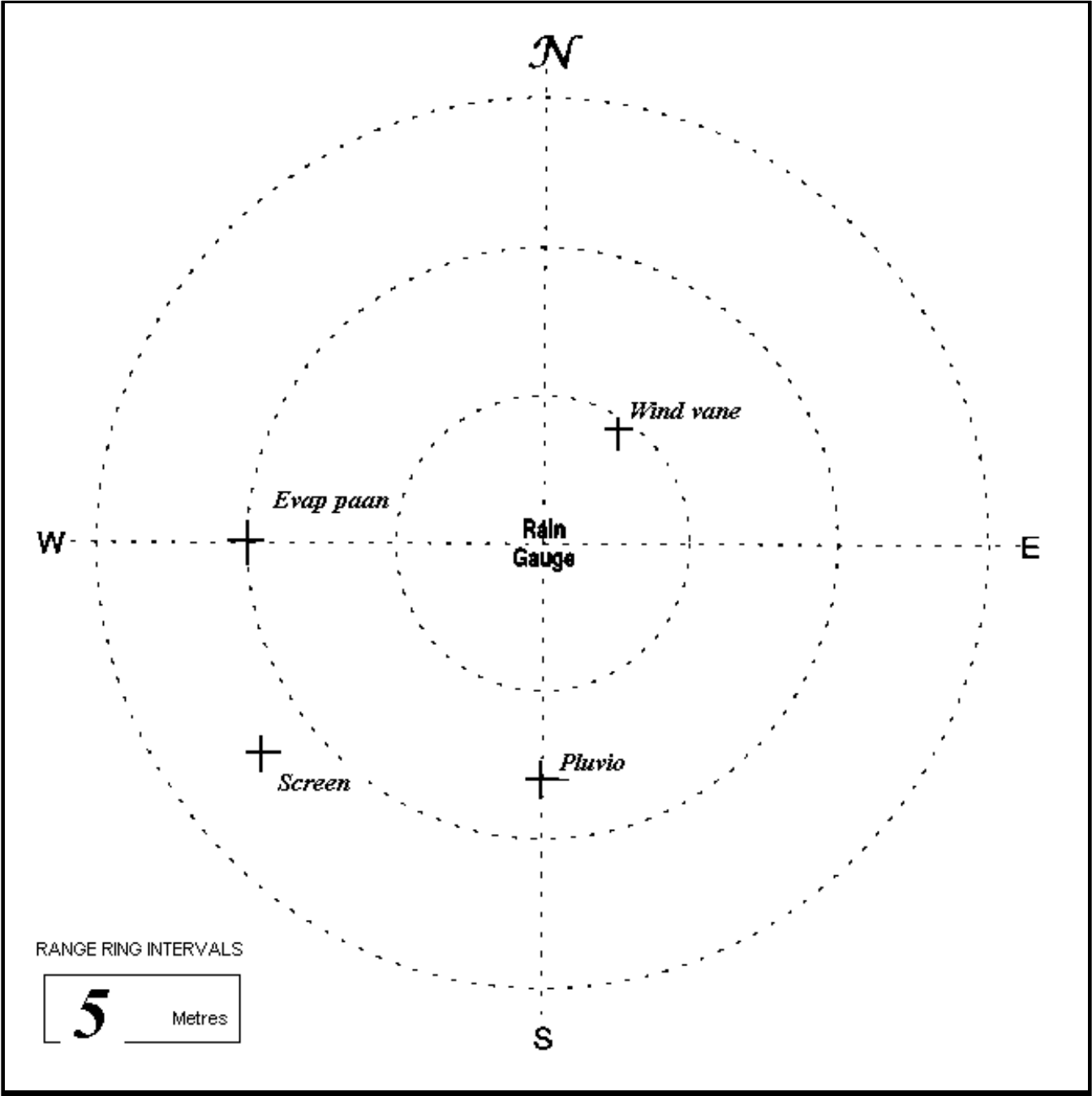
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Extended Climatological Station Metadata
All History

| | | | | | | | |
|-------------|------------|------------|-----------|--------------|------|--------------------|-------------|
| Station: | COONAWARRA | | Location: | COONAWARRA | | State: | SA |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m |
| | | | | | | Current Status: | Still open |
| | | | | | | Metadata compiled: | 28 JUL 2025 |

Instrument Location and Surrounding Features
27/05/1986



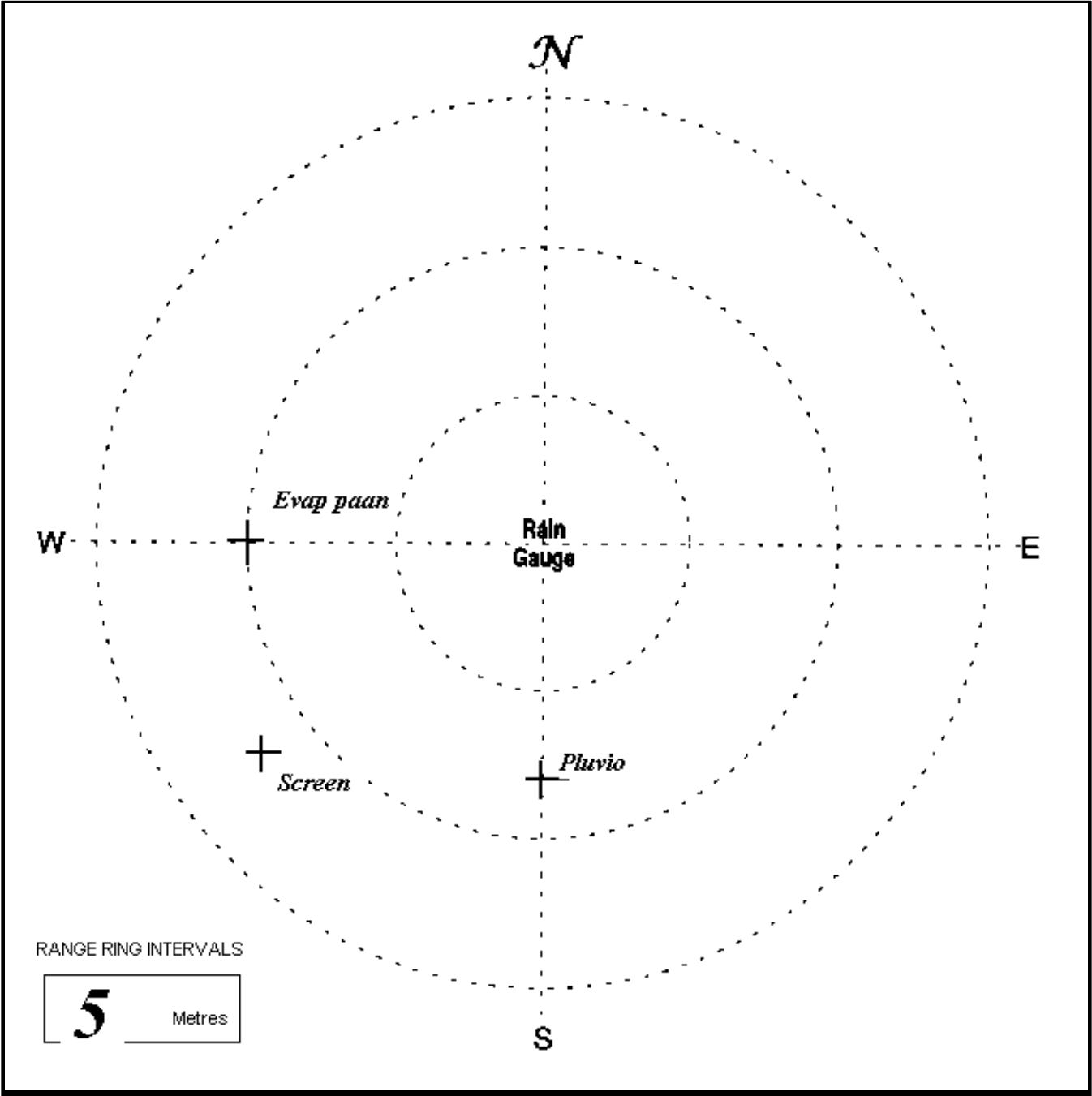
Historical metadata for this site has not been quality controlled for accuracy and completeness. Data other than current station information, particularly earlier than 1998, should be considered accordingly. Information may not be complete, as backfilling of historical data is incomplete.



Extended Climatological Station Metadata
All History

| | | | | | | | |
|-------------|------------|------------|-----------|--------------|------|--------------------|-------------|
| Station: | COONAWARRA | | Location: | COONAWARRA | | State: | SA |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m |
| | | | | | | Current Status: | Still open |
| | | | | | | Metadata compiled: | 28 JUL 2025 |

Instrument Location and Surrounding Features
26/09/1985



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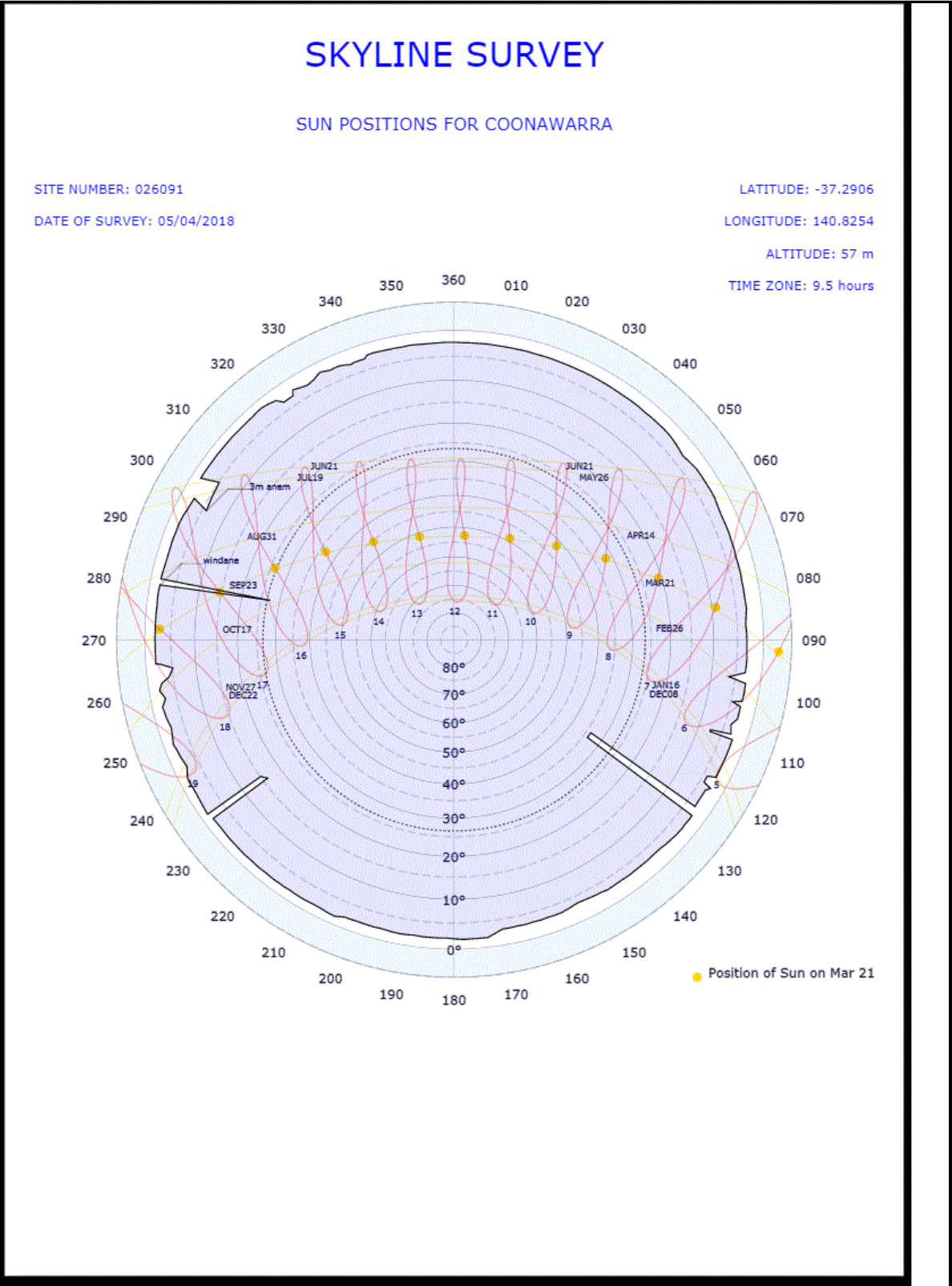
Extended Climatological Station Metadata

All History

| | | | | | | | |
|----------------------------|----------|-------------------|-----------------------------|---------------------|------|---------------------------|-------------|
| Station: COONAWARRA | | | Location: COONAWARRA | | | State: SA | |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m |
| | | | | | | Metadata compiled: | 28 JUL 2025 |

Skyline Diagram

05/04/2018(most recent)



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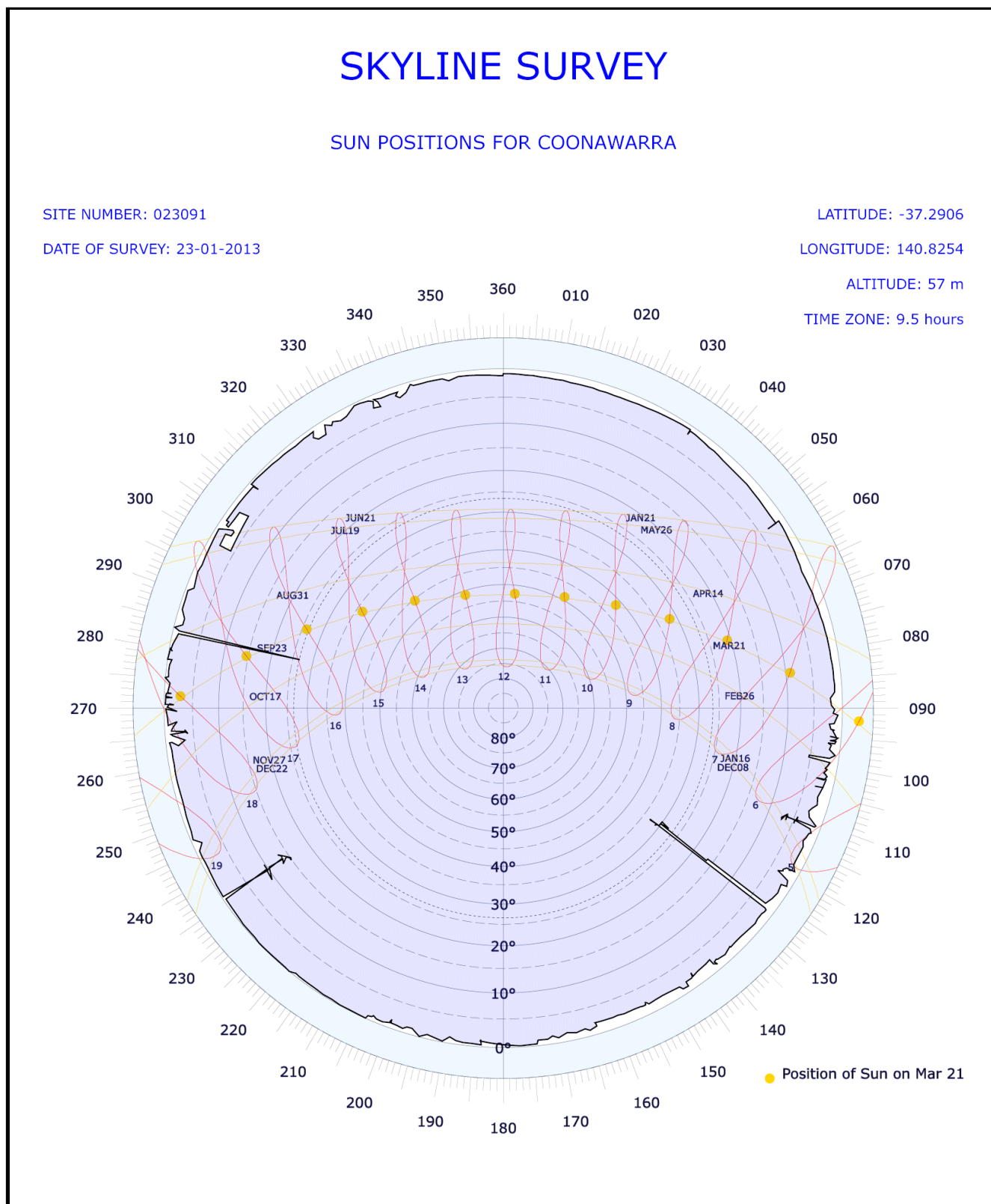
Extended Climatological Station Metadata

All History

| | | | | | |
|--------------------|------------|-------------------|------------|---------------------------|-------------|
| Station: | COONAWARRA | Location: | COONAWARRA | State: | SA |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Opened: | 26 Sep 1985 |
| | | Elevation: | 57 m | Barometer Elev: | 57.5 m |
| | | | | Current Status: | Still open |
| | | | | Metadata compiled: | 28 JUL 2025 |

Skyline Diagram

23/01/2013



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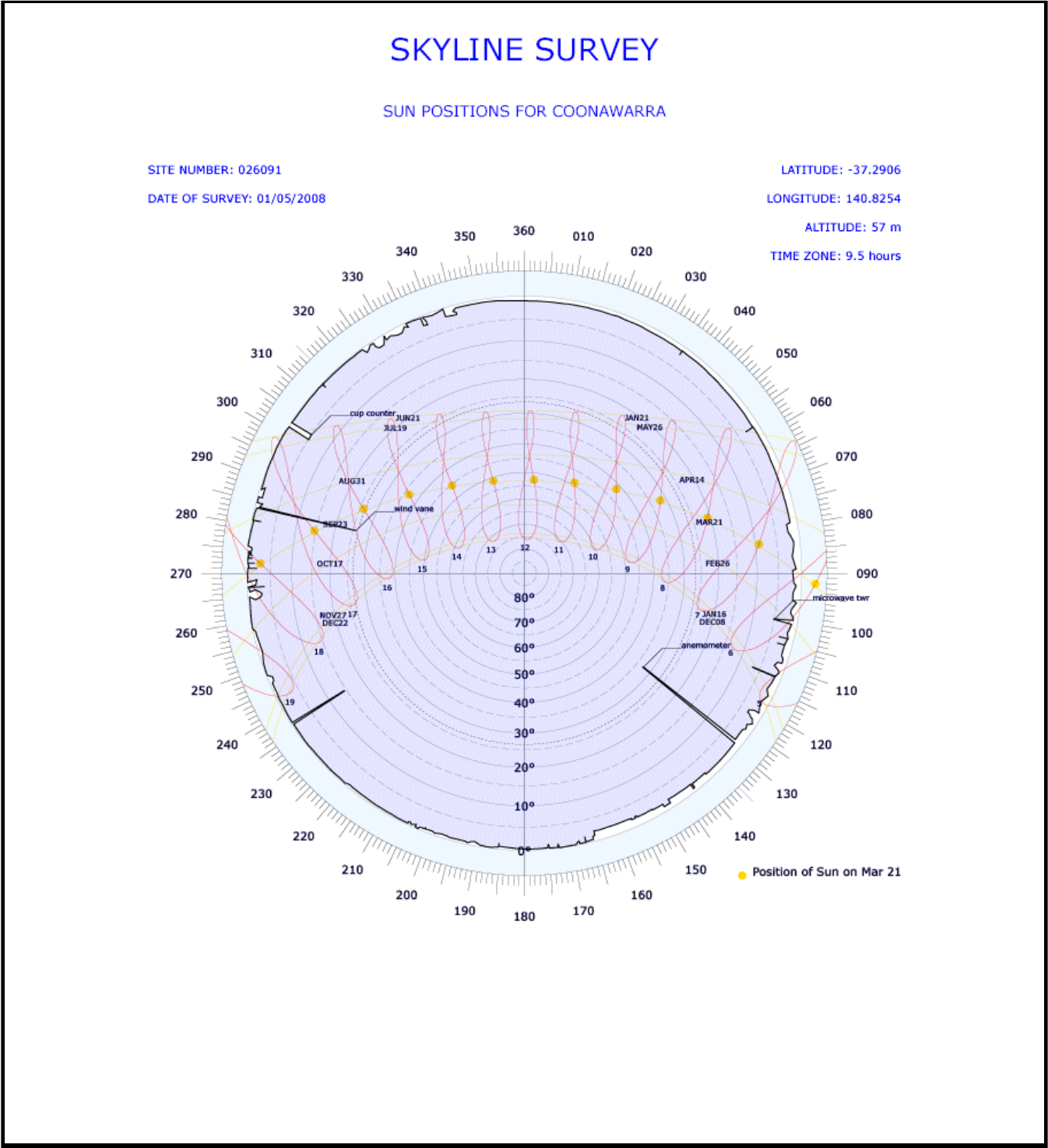
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Extended Climatological Station Metadata
All History

| | | | | | | | |
|-------------|------------|------------|-----------|--------------|------|--------------------|-------------|
| Station: | COONAWARRA | | Location: | COONAWARRA | | State: | SA |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m |
| | | | | | | Current Status: | Still open |
| | | | | | | Metadata compiled: | 28 JUL 2025 |

Skyline Diagram
01/05/2008



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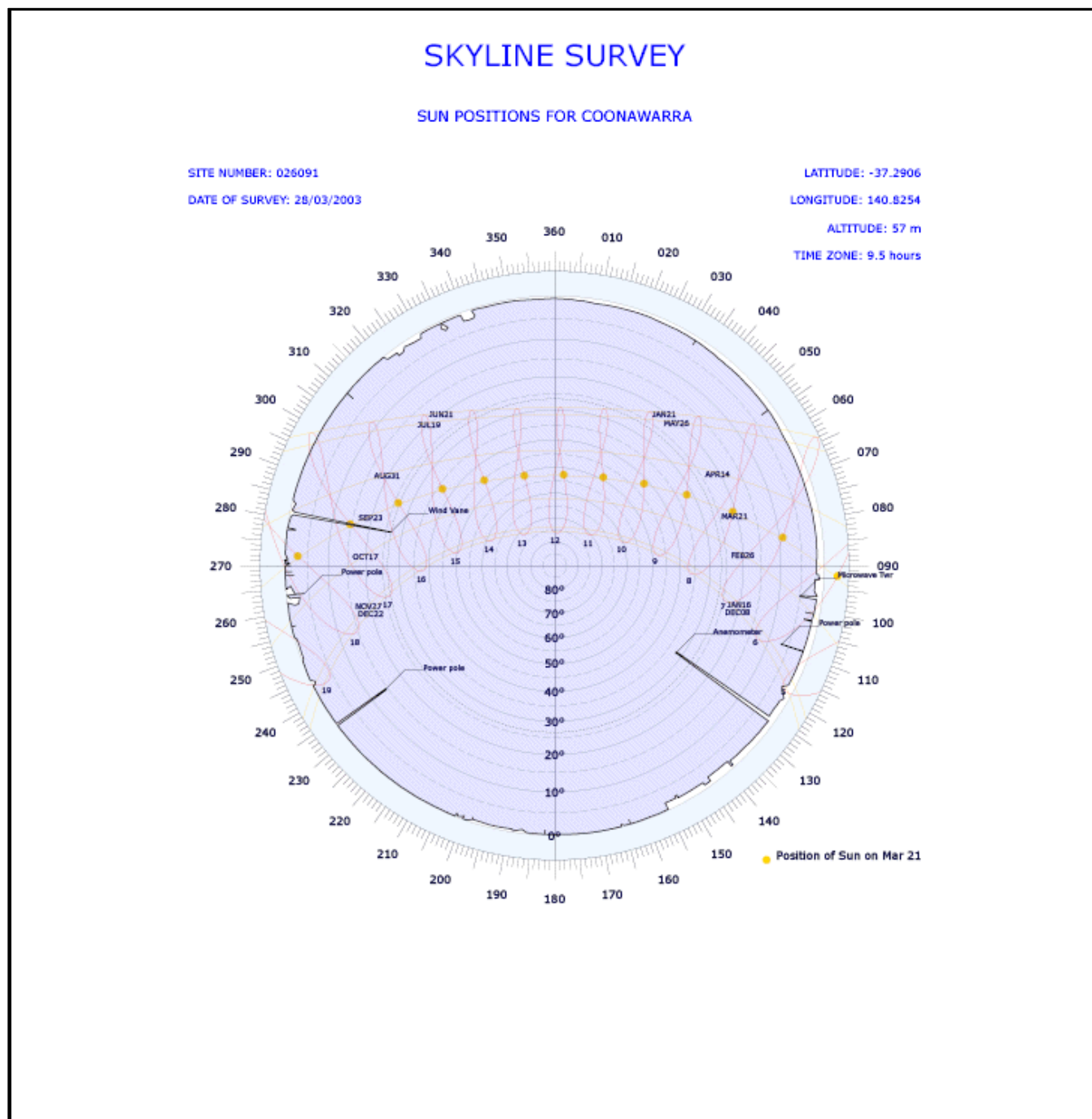
Extended Climatological Station Metadata

All History

| | | | | | | | | | |
|--------------------|------------|-------------------|----------|---------------------|------------|------------------------|---------------|---------------------------|-------------|
| Station: | COONAWARRA | | | Location: | COONAWARRA | | State: | SA | |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 | Current Status: | Still open |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m | Metadata compiled: | 28 JUL 2025 |

Skyline Diagram

28/03/2003



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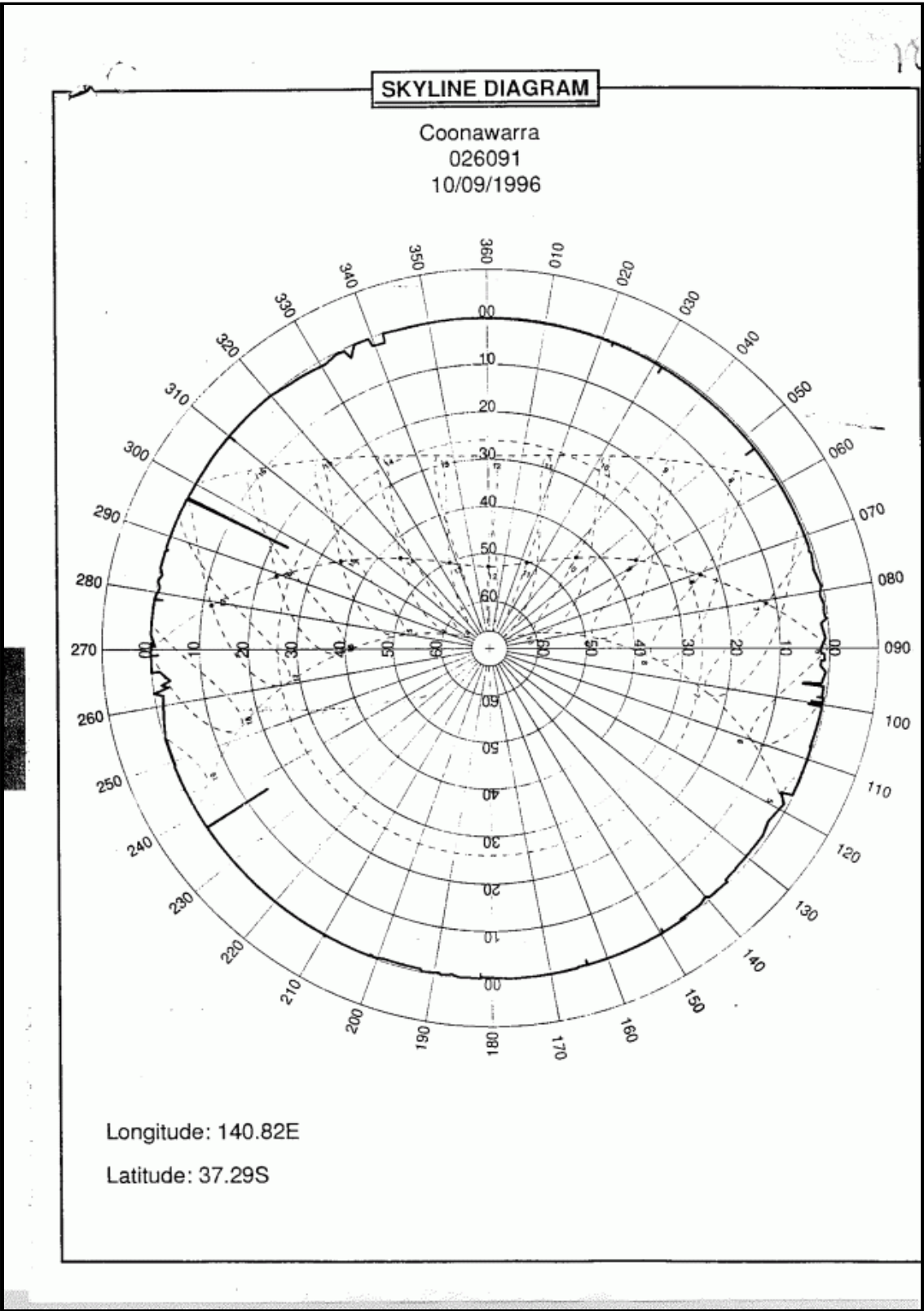
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Extended Climatological Station Metadata
All History

| | | | | | | | |
|-------------|------------|------------|-----------|--------------|------|--------------------|-------------|
| Station: | COONAWARRA | | Location: | COONAWARRA | | State: | SA |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m |
| | | | | | | Current Status: | Still open |
| | | | | | | Metadata compiled: | 28 JUL 2025 |

Skyline Diagram
10/09/1996



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Extended Climatological Station Metadata

All History

| | | | | | | | | | |
|--------------------|------------|-------------------|----------|---------------------|------------|------------------------|-------------|---------------------------|-------------|
| Station: | COONAWARRA | | | Location: | COONAWARRA | | | State: | SA |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 | Current Status: | Still open |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m | Metadata compiled: | 28 JUL 2025 |

Station Observation Program Summary (Surface Observations) from 05/03/1985 to 13/11/1991

| Current Observation | Continuous | Half Hourly | Hourly |
|----------------------|------------|-------------|--------|
| Surface Observations | - | - | - |

| Current Observation | Program Type | 12 AM | 3 AM | 6 AM | 9 AM | 12 PM | 3 PM | 6 AM | 9 AM |
|---------------------|--------------|-------|------|------|------|-------|------|------|------|
| Surface Observation | PERFORMED | - | - | - | Y | - | Y | - | - |
| Surface Observation | REPORTED | - | - | - | - | - | - | - | - |
| Surface Observation | SEASONAL | - | - | - | - | - | - | - | - |

Station Observation Program Summary (Surface Observations) from 13/11/1991 to 15/01/2004

| Current Observation | Continuous | Half Hourly | Hourly |
|----------------------|------------|-------------|--------|
| Surface Observations | - | - | Y |

| Current Observation | Program Type | 12 AM | 3 AM | 6 AM | 9 AM | 12 PM | 3 PM | 6 AM | 9 AM |
|---------------------|--------------|-------|------|------|------|-------|------|------|------|
| Surface Observation | PERFORMED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | REPORTED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | SEASONAL | - | - | - | - | - | - | - | - |

Station Observation Program Summary (Surface Observations) from 15/01/2004 to 03/05/2004

| Current Observation | Continuous | Half Hourly | Hourly |
|----------------------|------------|-------------|--------|
| Surface Observations | - | Y | Y |

| Current Observation | Program Type | 12 AM | 3 AM | 6 AM | 9 AM | 12 PM | 3 PM | 6 AM | 9 AM |
|---------------------|--------------|-------|------|------|------|-------|------|------|------|
| Surface Observation | PERFORMED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | REPORTED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | SEASONAL | - | - | - | - | - | - | - | - |

Station Observation Program Summary (Surface Observations) from 03/05/2004 to 16/10/2007

| Current Observation | Continuous | Half Hourly | Hourly |
|----------------------|------------|-------------|--------|
| Surface Observations | - | - | Y |

| Current Observation | Program Type | 12 AM | 3 AM | 6 AM | 9 AM | 12 PM | 3 PM | 6 AM | 9 AM |
|---------------------|--------------|-------|------|------|------|-------|------|------|------|
| Surface Observation | PERFORMED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | REPORTED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | SEASONAL | - | - | - | - | - | - | - | - |

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Extended Climatological Station Metadata

All History

| | | | | | | | | | |
|----------------------------|----------|-------------------|-----------------------------|---------------------|------|------------------------|-------------|---------------------------|-------------|
| Station: COONAWARRA | | | Location: COONAWARRA | | | State: SA | | | |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 | Current Status: | Still open |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m | Metadata compiled: | 28 JUL 2025 |

Station Observation Program Summary (Surface Observations) from 09/11/2010 to 01/05/2012

| Current Observation | Continuous | Half Hourly | Hourly |
|----------------------|------------|-------------|--------|
| Surface Observations | - | Y | Y |

| Current Observation | Program Type | 12 AM | 3 AM | 6 AM | 9 AM | 12 PM | 3 PM | 6 AM | 9 AM |
|---------------------|--------------|-------|------|------|------|-------|------|------|------|
| Surface Observation | PERFORMED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | REPORTED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | SEASONAL | - | - | - | - | - | - | - | - |

Station Observation Program Summary (Surface Observations) 28 JUL 2025 (most recent)

| Current Observation | Continuous | Half Hourly | Hourly |
|----------------------|------------|-------------|--------|
| Surface Observations | Y | Y | Y |

| Current Observation | Program Type | 12 AM | 3 AM | 6 AM | 9 AM | 12 PM | 3 PM | 6 AM | 9 AM |
|---------------------|--------------|-------|------|------|------|-------|------|------|------|
| Surface Observation | PERFORMED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | REPORTED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | SEASONAL | - | - | - | - | - | - | - | - |

Station Observation Program Summary (Surface Observations) from 16/10/2007 to 01/05/2008

| Current Observation | Continuous | Half Hourly | Hourly |
|----------------------|------------|-------------|--------|
| Surface Observations | - | Y | Y |

| Current Observation | Program Type | 12 AM | 3 AM | 6 AM | 9 AM | 12 PM | 3 PM | 6 AM | 9 AM |
|---------------------|--------------|-------|------|------|------|-------|------|------|------|
| Surface Observation | PERFORMED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | REPORTED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | SEASONAL | - | - | - | - | - | - | - | - |

Station Observation Program Summary (Surface Observations) from 01/05/2008 to 27/10/2008

| Current Observation | Continuous | Half Hourly | Hourly |
|----------------------|------------|-------------|--------|
| Surface Observations | - | - | Y |

| Current Observation | Program Type | 12 AM | 3 AM | 6 AM | 9 AM | 12 PM | 3 PM | 6 AM | 9 AM |
|---------------------|--------------|-------|------|------|------|-------|------|------|------|
| Surface Observation | PERFORMED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | REPORTED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | SEASONAL | - | - | - | - | - | - | - | - |

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Extended Climatological Station Metadata

All History

| | | | | | | | | | |
|--------------------|------------|-------------------|----------|---------------------|------------|------------------------|-------------|---------------------------|-------------|
| Station: | COONAWARRA | | | Location: | COONAWARRA | | | State: | SA |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 | Current Status: | Still open |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m | Metadata compiled: | 28 JUL 2025 |

Station Observation Program Summary (Surface Observations) from 27/10/2008 to 01/05/2009

| Current Observation | Continuous | Half Hourly | Hourly |
|----------------------|------------|-------------|--------|
| Surface Observations | - | Y | Y |

| Current Observation | Program Type | 12 AM | 3 AM | 6 AM | 9 AM | 12 PM | 3 PM | 6 AM | 9 AM |
|---------------------|--------------|-------|------|------|------|-------|------|------|------|
| Surface Observation | PERFORMED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | REPORTED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | SEASONAL | - | - | - | - | - | - | - | - |

Station Observation Program Summary (Surface Observations) from 01/05/2009 to 02/11/2009

| Current Observation | Continuous | Half Hourly | Hourly |
|----------------------|------------|-------------|--------|
| Surface Observations | - | Y | Y |

| Current Observation | Program Type | 12 AM | 3 AM | 6 AM | 9 AM | 12 PM | 3 PM | 6 AM | 9 AM |
|---------------------|--------------|-------|------|------|------|-------|------|------|------|
| Surface Observation | PERFORMED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | REPORTED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | SEASONAL | - | - | - | - | - | - | - | - |

Station Observation Program Summary (Surface Observations) from 02/11/2009 to 01/05/2010

| Current Observation | Continuous | Half Hourly | Hourly |
|----------------------|------------|-------------|--------|
| Surface Observations | - | Y | Y |

| Current Observation | Program Type | 12 AM | 3 AM | 6 AM | 9 AM | 12 PM | 3 PM | 6 AM | 9 AM |
|---------------------|--------------|-------|------|------|------|-------|------|------|------|
| Surface Observation | PERFORMED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | REPORTED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | SEASONAL | - | - | - | - | - | - | - | - |

Station Observation Program Summary (Surface Observations) from 01/05/2010 to 09/11/2010

| Current Observation | Continuous | Half Hourly | Hourly |
|----------------------|------------|-------------|--------|
| Surface Observations | - | - | Y |

| Current Observation | Program Type | 12 AM | 3 AM | 6 AM | 9 AM | 12 PM | 3 PM | 6 AM | 9 AM |
|---------------------|--------------|-------|------|------|------|-------|------|------|------|
| Surface Observation | PERFORMED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | REPORTED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | SEASONAL | - | - | - | - | - | - | - | - |

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Extended Climatological Station Metadata
All History

| | | | | | | | | | |
|----------------------------|----------|-------------------|-----------------------------|---------------------|------|------------------------|-------------|---------------------------|-------------|
| Station: COONAWARRA | | | Location: COONAWARRA | | | State: SA | | | |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 | Current Status: | Still open |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m | Metadata compiled: | 28 JUL 2025 |

Station Observation Program Summary (Surface Observations) from 01/05/2012 to 14/06/2012

| Current Observation | Continuous | Half Hourly | Hourly |
|----------------------|------------|-------------|--------|
| Surface Observations | - | Y | Y |

| Current Observation | Program Type | 12 AM | 3 AM | 6 AM | 9 AM | 12 PM | 3 PM | 6 AM | 9 AM |
|---------------------|--------------|-------|------|------|------|-------|------|------|------|
| Surface Observation | PERFORMED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | REPORTED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | SEASONAL | - | - | - | - | - | - | - | - |

Historical metadata for this site has not been quality controlled for accuracy and completeness. Data other than current station information, particularly earlier than 1998, should be considered accordingly. Information may not be complete, as backfilling of historical data is incomplete.



Extended Climatological Station Metadata
All History

| | | | | | | | |
|---------------------------|------------|-------------------|------------------|---------------------|------|------------------------|-------------|
| Station: | COONAWARRA | | Location: | COONAWARRA | | State: | SA |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m |
| Current Status: | | | | | | | Still open |
| Metadata compiled: | | | | | | | 28 JUL 2025 |

Station Equipment History

| |
|---|
| Equipment Install/Remove |
| Cloud Height (No Electronic History) |
| Humidity (No Electronic History) |
| Pressure Trend (No Electronic History) |
| Lightning (No Electronic History) |
| Sea Surface Temperature (No Electronic History) |
| Magnetic Bearing (No Electronic History) |
| Wind Direction |
| 14/MAR/1997 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 76388) Surface Observations |
| 14/MAR/1997 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 76495) Surface Observations |
| 14/MAR/1997 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure |
| 22/MAR/2006 INSTALL Wind Run Anemometer (Type Munro S/N - 7450) Surface Observations |
| 07/MAR/2014 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 80229) Surface Observations |
| 07/MAR/2012 REPLACE Wind Run Anemometer (Now Munro S/N - CBM513) Surface Observations |
| Wet Bulb Temperature |
| 14/MAR/1997 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 0110) Surface Observations |
| 11/FEB/1999 REPLACE Temperature Probe - Wet Bulb (Now Rosemount S/N - 0136) Surface Observations |
| 04/OCT/2007 REPLACE Temperature Probe - Wet Bulb (Now Rosemount ST2401 S/N - 0749) Surface Observations |
| 26/SEP/1985 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - Unknown) Surface Observations |
| 17/JAN/2001 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - Unknown) Surface Observations |
| Solar Radiation (Long Wave) (No Electronic History) |
| Spectral Radiation (No Electronic History) |
| Maximum Temperature |
| 26/SEP/1985 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - Unknown) Surface Observations |
| 17/JAN/2001 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - Unknown) Surface Observations |
| Soil Temperature 10cm |
| 22/MAR/2006 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - M2287) Surface Observations |
| 17/MAY/2011 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - 9604870) Surface Observations |
| Soil Temperature 20cm |
| 22/MAR/2006 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - 270789) Surface Observations |
| 04/SEP/2017 REPLACE Thermometer, Soil, 20cm (Now Amarol S/N - 0136-931) Surface Observations |
| 17/JAN/2007 REPLACE Thermometer, Soil, 20cm (Now Amarol S/N - 9604819) Surface Observations |
| 24/DEC/2020 REPLACE Thermometer, Soil, 20cm (Now Amarol S/N - 9725410) Surface Observations |
| 17/MAY/2011 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 9566396) Surface Observations |
| Soil Temperature 50cm |
| 22/MAR/2006 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - M5174) Surface Observations |
| 17/JAN/2007 REPLACE Thermometer, Soil, 50cm (Now Dobros S/N - CBM170) Surface Observations |
| Snow Height (No Electronic History) |
| Soil Temperature 100cm |
| 22/MAR/2006 INSTALL Thermometer, Soil, 100cm (Type Amarol S/N - 9725163) Surface Observations |
| Sunshine Hours (No Electronic History) |
| Wind Run |
| 22/MAR/2006 INSTALL Wind Run Anemometer (Type Munro S/N - 7450) Surface Observations |
| 07/MAR/2012 REPLACE Wind Run Anemometer (Now Munro S/N - CBM513) Surface Observations |

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Extended Climatological Station Metadata

All History

| | | | | | | | |
|--------------------|------------|-------------------|------------------|---------------------|------|------------------------|---------------------------------------|
| Station: | COONAWARRA | | Location: | COONAWARRA | | State: | SA |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Current Status: | Still open |
| | | | | | | Barometer Elev: | 57.5 m |
| | | | | | | | Metadata compiled: 28 JUL 2025 |

Station Equipment History (continued)

Equipment Install/Remove(Continued)

Minimum Temperature

26/SEP/1985 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - Unknown) Surface Observations

17/JAN/2001 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - Unknown) Surface Observations

Terrestrial Minimum Temperature

05/MAR/1985 INSTALL Thermometer, Terrestrial, Min (Type Unknown S/N - Unknown) Surface Observations

15/FEB/2001 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 20658) Surface Observations

02/APR/2003 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 22150) Surface Observations

07/MAR/2012 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 25912) Surface Observations

17/AUG/2017 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 25912) Surface Observations

20/APR/2005 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 25912) Surface Observations

01/SEP/2014 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 25912) Surface Observations

15/FEB/2019 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 33787) Surface Observations

08/MAR/2017 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - CBM3771) Surface Observations

12/FEB/2008 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - S0088) Surface Observations

29/JUN/2017 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 1087530) Surface Observations

28/MAY/2021 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 27616) Surface Observations

24/DEC/2020 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 33774) Surface Observations

Visibility (No Electronic History)

Soil Temperature 5cm

24/APR/2015 INSTALL Thermometer, Soil, 5cm (Type Dobros S/N - CBM10) Surface Observations

22/MAR/2006 INSTALL Thermometer, Soil, 5cm (Type Dobros S/N - M0906) Surface Observations

24/APR/2015 REMOVE Thermometer, Soil, 5cm (Type Dobros S/N - M0907) Surface Observations

04/OCT/2007 REPLACE Thermometer, Soil, 5cm (Now Amarol S/N - 9566474) Surface Observations

14/APR/2015 REPLACE Thermometer, Soil, 5cm (Now Dobros S/N - M0907) Surface Observations

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Oxygen Content (No Electronic History)

RF Reflectivity (No Electronic History)

Total Column Ozone Amount (No Electronic History)

Pressure

14/MAR/1997 INSTALL Barometer (Type Vaisala PA11A S/N - P4620033) Surface Observations

16/SEP/2003 REPLACE Barometer (Now Vaisala PTB220B S/N - U0250008) Surface Observations

04/FEB/2019 REPLACE Barometer (Now Vaisala PTB220B S/N - Unknown) Surface Observations

Evaporation

26/SEP/1985 INSTALL Evaporation Pan (Type Class A S/N - NONE) Surface Observations

28/FEB/2001 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations

Rainfall

26/SEP/1985 INSTALL Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity

17/JAN/2001 REMOVE Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity

01/SEP/1985 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations

14/MAR/1997 INSTALL Raingauge (Type HS TB3A-0.2 S/N - 96-184) Rainfall Intensity

14/MAR/1997 INSTALL Raingauge (Type HS TB3A-0.2 S/N - 96-184) Surface Observations

15/JAN/2004 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 83287) Rainfall Intensity

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Extended Climatological Station Metadata
All History

| | | | | | | | |
|---------------------------|------------|-------------------|------------------|---------------------|------|------------------------|-------------|
| Station: | COONAWARRA | | Location: | COONAWARRA | | State: | SA |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m |
| Current Status: | | | | | | | Still open |
| Metadata compiled: | | | | | | | 28 JUL 2025 |

Station Equipment History (continued)

Equipment Install/Remove(Continued)

15/JAN/2004 REPLACE Raingauge (Now Rimco TBRG S/N - 83287) Surface Observations
17/JAN/2001 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 319) Rainfall Intensity
17/JAN/2001 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 319) Surface Observations
05/APR/2018 UNSHARE Raingauge (Type Rimco 7499 TBRG S/N - 83287) Rainfall Intensity

River Height (No Electronic History)

Solar Radiation (No Electronic History)

Solar Radiation (Direct) (No Electronic History)

Turbidity (No Electronic History)

Sea Water Level (No Electronic History)

Sea Water Temperature (No Electronic History)

Wind Speed

14/MAR/1997 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 76388) Surface Observations
14/MAR/1997 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 76495) Surface Observations
14/MAR/1997 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
22/MAR/2006 INSTALL Wind Run Anemometer (Type Munro S/N - 7450) Surface Observations
07/MAR/2014 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 80229) Surface Observations
07/MAR/2012 REPLACE Wind Run Anemometer (Now Munro S/N - CBM513) Surface Observations

Air Temperature

14/MAR/1997 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 0127) Surface Observations
22/MAR/2006 REPLACE Temperature Probe - Dry Bulb (Now Rosemount ST2401 S/N - 0686) Surface Observations
26/SEP/1985 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - Unknown) Surface Observations
17/JAN/2001 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - Unknown) Surface Observations

Surface Inclination (No Electronic History)

The following table summarises information on field performance checks available electronically over the period indicated. The number of instances an instrument was found to fail field performance checks should only be used as a guide. A system of data quality flags is implemented by the Bureau of Meteorology to indicate the data quality of an observation as determined by a mutli-stage quality control process.

| Available Date Range | Element | Fail Field Performance Check |
|---------------------------|---------------------------------|------------------------------|
| 21/MAR/1997 - 25/FEB/2021 | Wind Direction | 5 |
| 26/SEP/1985 - 25/FEB/2021 | Wet Bulb Temperature | 2 |
| 26/SEP/1985 - 13/NOV/1991 | Maximum Temperature | 0 |
| 22/MAR/2006 - 30/JUL/2019 | Soil Temperature 10cm | 0 |
| 22/MAR/2006 - 30/JUL/2019 | Soil Temperature 20cm | 0 |
| 22/MAR/2006 - 30/JUL/2019 | Soil Temperature 50cm | 0 |
| 22/MAR/2006 - 30/JUL/2019 | Soil Temperature 100cm | 0 |
| 22/MAR/2006 - 30/JUL/2019 | Wind Run | 2 |
| 26/SEP/1985 - 13/NOV/1991 | Minimum Temperature | 0 |
| 26/SEP/1985 - 30/JUL/2019 | Terrestrial Minimum Temperature | 0 |
| 22/MAR/2006 - 30/JUL/2019 | Soil Temperature 5cm | 1 |
| 21/MAR/1997 - 25/FEB/2021 | Pressure | 0 |
| 26/SEP/1985 - 30/JUL/2019 | Evaporation | 3 |

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Extended Climatological Station Metadata

All History

| | | | | | | | |
|---------------------------|------------|-------------------|------------------|---------------------|------|------------------------|-------------|
| Station: | COONAWARRA | | Location: | COONAWARRA | | State: | SA |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m |
| Current Status: | | | | | | | Still open |
| Metadata compiled: | | | | | | | 28 JUL 2025 |

Station Equipment History (continued)

| Available Date Range | Element | Fail Field Performance Check |
|---------------------------|-----------------|------------------------------|
| 26/SEP/1985 - 25/FEB/2021 | Rainfall | 16 |
| 21/MAR/1997 - 25/FEB/2021 | Wind Speed | 5 |
| 26/SEP/1985 - 25/FEB/2021 | Air Temperature | 1 |

Station Detail Changes

01/FEB/2021 CLASSIFICATION AWS Priority 3 - Standard (SLP3-AWS)
14/MAR/1997 CLASSIFICATION External - General (FEX) ENDED 29-10-2020
27/SEP/2021 CLASSIFICATION Mastered in EAMS (EAMS)
01/JUL/2017 CLASSIFICATION Observing Operations Hub - Adelaide (OOH-A)
21/MAR/2016 CLASSIFICATION Processed by ASOS (PBA)
10/JAN/2011 CLASSIFICATION Standard (ASOSSTD)
06/SEP/2012 OBJECT Document/026091_Email_120906
13/SEP/2006 OBJECT Document/026091letter
30/JUL/2019 OBJECT Document/26091190730AWSMastAudit
18/OCT/2010 OBJECT Document/AWS SITE AUDIT
29/JUL/2003 OBJECT Document/BAROMETER COEFFICIENTS
11/JAN/2019 OBJECT Document/OCR 2016-004 RH Probes Approved Forms 9 Feb 2017
08/NOV/2010 OBJECT Document/SA-SEVWX Request 101108
01/OCT/2006 OBJECT Document/SITE LEASE
14/MAR/1997 OBJECT Document/SITE LEASE
01/MAY/2008 OBJECT Document/SKYLINE DATA
28/MAR/2003 OBJECT Document/SKYLINE DATA
05/APR/2018 OBJECT Document/SKYLINE DATA
23/JAN/2013 OBJECT Document/SKYLINE DATA
21/FEB/2011 OBJECT Document/metconsole_stationconfig_026091110221
26/SEP/1985 STATION - (nondb seeding) Opened
26/SEP/1985 STATION - (nondb seeding) bar_ht Changed to 57.5
26/SEP/1985 STATION - (nondb seeding) bar_ht_deriv Changed to MAP 1:50 000
26/SEP/1985 STATION - (nondb seeding) latitude Changed to -37.2919
26/SEP/1985 STATION - (nondb seeding) longitude Changed to 140.8244
26/SEP/1985 STATION - (nondb seeding) name Changed to COONAWARRA
26/SEP/1985 STATION - (nondb seeding) stn_ht Changed to 57
26/SEP/1985 STATION - (nondb seeding) stn_ht_deriv Changed to MAP 1:50 000
26/SEP/1985 STATION - (nondb seeding) wmo_num Changed to 94817
26/SEP/1985 STATION aviation_id Changed to COOW
22/JAN/2002 STATION latitude Changed to -37.29060WGS 84
22/JAN/2002 STATION latlon_deriv Changed to GPS
22/JAN/2002 STATION latlon_error Changed to
22/JAN/2002 STATION longitude Changed to 140.82539WGS 84
26/SEP/1985 STATION lu_0_100m Changed to Open farmland, grassland or tundra
17/MAR/1997 STATION lu_0_100m Changed to Open farmland, grassland or tundra
26/SEP/1985 STATION lu_100m_1km Changed to Open farmland, grassland or tundra
17/MAR/1997 STATION lu_100m_1km Changed to Small town < 1000 population

Historical metadata for this site has not been quality controlled for accuracy and completeness. Data other than current station information, particularly earlier than 1998, should be considered accordingly. Information may not be complete, as backfilling of historical data is incomplete.

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Extended Climatological Station Metadata
All History

| | | | | | | | | | |
|----------------------------|----------|-------------------|-----------------------------|---------------------|------|------------------------|-------------|---------------------------|-------------|
| Station: COONAWARRA | | | Location: COONAWARRA | | | State: SA | | | |
| Bureau No.: | 026091 | WMO No.: | 94817 | Aviation ID: | COOW | Opened: | 26 Sep 1985 | Current Status: | Still open |
| Latitude: | -37.2906 | Longitude: | 140.8254 | Elevation: | 57 m | Barometer Elev: | 57.5 m | Metadata compiled: | 28 JUL 2025 |

Station Equipment History (continued)

Station Detail Changes(Continued)

26/SEP/1985 STATION lu_1km_10km Changed to Open farmland, grassland or tundra
17/MAR/1997 STATION lu_1km_10km Changed to Town 1000 to 10,000
26/SEP/1985 STATION soil_type Changed to black soil
17/MAR/1997 STATION soil_type Changed to black soil
17/MAR/1997 STATION surface_type Changed to mostly covered by grass

System Changes

14/MAR/1997 SYSTEM Infrastructure Commenced
05/APR/2018 SYSTEM Rainfall Intensity Ceased
26/SEP/1985 SYSTEM Rainfall Intensity Commenced
05/MAR/1985 SYSTEM Surface Observations Commenced

Historical metadata for this site has not been quality controlled for accuracy and completeness. Data other than current station information, particularly earlier than 1998, should be considered accordingly. Information may not be complete, as backfilling of historical data is incomplete.

Notes on these metadata

The following notes have been compiled to assist with interpreting the metadata provided in this document. These notes are subject to change as the network evolves. Changes in station-specific metadata occur more frequently, both as recent changes are recorded and historical information is transferred from paper file to electronic database.

Reliability of the metadata

The Commonwealth Bureau of Meteorology maintains information on more than 20,000 stations which have operated since observations began in the mid 1800s. The amount of information available for each of these sites and its associated uncertainty are influenced by a number of factors including the type and purpose of the station and the time over which it operated.

Early information about stations was held only on paper file. In 1998 a corporate electronic database was established to help maintain information about the network and its components. The number of parameters recorded about a station is now much greater than before this database was established. The national database has also helped improve consistency in the metadata through the implementation of predefined fields. As a result, and through the refinement of operating procedures, station metadata recorded since 1998 are of a higher overall standard than previously, although occasional omissions and errors are still possible.

The Bureau is part way through a task of entering historical information held on paper file into the corporate database. **Until this process is completed there will remain large gaps in the information contained in these metadata documents and considerable caution should be used when deriving conclusions from the metadata.** As an example, two consecutive entries about a rain gauge dated 50 years apart may appear in the equipment metadata. This may either mean that nothing happened to that instrument over the 50 years, or that information for the intervening period has yet to be entered into the database. Similarly, if no information was available about instruments at a site when it was first established, fields which were required to have a value present may have used the earliest information available as a best-guess estimate. Sometimes this was the metadata current when the database was established in 1998. In some instances there may be gaps in metadata relevant to the post 1998 period.

For the above reasons it is recommended that all metadata prior to 1998 be considered as indicative only, and used with caution, unless it has been quality controlled. The Bureau of Meteorology should be contacted if further information or confirmation of the data is required. Depending on the nature of the inquiry there may be a fee associated with this request. Contact details are provided in the telephone book for each capital city or the Bureau's web site at:
<http://www.bom.gov.au>

The following pages contain explanatory notes for selected terms found in this document.

Station Number

The Bureau of Meteorology station number uniquely specifies a station and is not intended to change over time, although on very rare occasions a station number may change or be deleted from the record (usually to correct an error). Generally a new station number is established if an existing station changes in a way that would affect the climate data record for that site (measured in terms of air temperature and precipitation). Significant station moves are an example of this.

Some stations also possess a World Meteorological Organization (WMO) station number. The WMO number is different to the Bureau of Meteorology number. It also uniquely specifies a station at any given time but can be reassigned to another station if the new station takes priority in the global reporting network. Only selected stations will have a WMO number. Significant stations may maintain their WMO number for many decades.

Historical metadata for this site has not been quality controlled for accuracy and completeness. Data other than current station information, particularly earlier than 1998, should be considered accordingly. Information may not be complete, as backfilling of historical data is incomplete.

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Notes on these metadata

Network Classification

| |
|--|
| SUPPORTING the BASIC CLIMATE SERVICE |
| Global Climate Observing System (GCOS) |
| GCOS Upper Air Network (GUAN) |
| GCOS Surface Network (GSN) |
| National Climate Network {not yet assigned} |
| Reference Climate Stations (RCS) |
| Regional Basic Climatological Network (RBCN) |
| CLIMAT Stations (CLC) |
| CLIMAT TEMP Stations (CLT) |
| SUPPORTING the NATIONAL WEATHER WATCH SYSTEM |
| WMO Global Observing System (GOS) |
| GOS Upper Air Network |
| GOS Satellite Network |
| Global Atmospheric Watch |
| Background Atmospheric Pollution Monitoring Network (BAPMON) |
| Basic Ozone Network |
| Basic Solar and Terrestrial Radiation Network |
| Regional Basic Synoptic Network (RBSN) |
| WMO Global Oceanic Observing System (GOOS) |
| SUPPORTING the BASIC WEATHER SERVICE (BWS) |
| BWS Land Network |
| Significant Land Locations |
| Capital City Mesonets |
| National Benchmark Network for Agrometeorology (NBNA) |
| BWS Marine Network |
| Significant Coastal Locations |
| Open Ocean Network |
| BWS Upper Air Network |
| Major Significant Locations |
| BWS Remote Sensing Network |
| Weather Watch Radar Network |
| Fire Weather Wind Mesonets |
| High Resolution Satellite |
| SUPPORTING the BASIC HYDROLOGICAL SERVICE |
| Regional Flood Warning Network |
| Water Resources Assessment Network |
| Global Hydrological Network |
| Global Terrestrial Observing System (GTOS) |
| World Hydrological Cycle Observing System (WHYCOS) |
| National Hydrological Network |

Networks of stations are defined for a variety of purposes (as defined in above table).

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Notes on these metadata

Network Classification Continued....

Stations may be included in several different networks, which may change over time. The table on the previous page lists current network classifications related to the scientific purpose of the network. Some of these networks - the GCOS network for instance - are components of a global network. Entries in the database for some networks may not be complete, thus not properly representing the status of the network. The composition of the network will usually change over time. While several of the networks have international significance, other network classifications have been developed to aid operational management.

Station Purpose

The station purpose can be classified according to the observation program listed below. Parameters in brackets list some of the various different configurations which occur.

- Synoptic [Seasonal, River Height, Climatological, Telegraphic Rain, Aeronautical, Upper Air]
- Climatological [Seasonal, Telegraphic Rain]
- Aeronautical
- Rainfall [River Height]
- River Height
- Telegraphic Rain [Non-Telegraphic River Height, Telegraphic River Height]
- Non-Telegraphic Rain [Telegraphic River Height]
- Evaporation [Rainfall, River Height, Telegraphic River Height, Non-Telegraphic River Height, Telegraphic Rain, Non-Telegraphic Rain]
- Pluviograph [Rainfall, Telegraphic Rain, Non-Telegraphic Rain, River Height, Telegraphic River Height, Non-Telegraphic River Height]
- Radiation
- Lightning Flash Counter
- Public Information
- Local Conditions
- Radar Site
- Unclassified
- No Routine Observations

Note: Telegraphic observations are those which are sent by some electronic means be it a phone or telegram to the responsible Bureau office. It is a term which is historically linked to analogue non automatic data transmission.

Station Observation Program Summary

Surface Observations

The following terms are used to describe the frequency of surface observations at a site. Historical observation programs will typically be missing for many sites until the database is backfilled with information.

Set a)

- Continuous Program
 - More than half hourly observations sent (eg an automatic weather station {AWS} which continuously transmits 10 minute observations). This will automatically include half hourly and hourly observations programs.
- Half hourly observations
 - Half hourly observations sent. This will automatically include hourly observations.
- Hourly observations
 - Hourly observations sent only. Stations report on non-synoptic hours (ie. 0100, 0200, 0400, 0500, etc)

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Notes on these metadata

Surface observations continued....

Set b)

- Performed
 - Observations performed, instruments read and observations recorded
- Reported
 - Observations performed, instruments read and reported real time
- Seasonal
 - The program may only be performed during a defined season (such as Fire Weather observations) or the routine program may increase in reporting frequency and/or parameters. The program dates are currently modified at the start and end of each season for stations performing seasonal observations. Historically this was not always the case.

Current Station Equipment Summary

Equipment listed in this metadata product is catalogued under one of systems listed below, appropriate to its application. The "Infrastructure" category has been included since it contains information about the mast height of an anemometer (if present).

- Flood Warning
- Infrastructure
- Radiation
- Rainfall Intensity
- Surface Observations
- Upper Air
- Weather Watch {RADAR}

Station Equipment History

Equipment Install/Remove

One of four types of actions can be performed on an instrument in this listing:

Install - A new instrument is installed at the site. This can be either a completely new addition (eg the first barometer at the site), or the replacement of an existing instrument with a different type (eg replacing mercury barometer with electronic barometer)

Remove - An instrument can be removed either when it is no longer necessary to measure a particular element, or when the element is to be measured by an instrument of a different type (see under "Install" above)

Replace - This occurs when one instrument is replaced with another of the same type (eg Kew pattern mercury barometer replacing another Kew pattern mercury barometer)

Share - The same instrument is used for observations under two (or more) systems (eg a rain gauge may be used within both Surface Observations and Rainfall Intensity systems)

Unshare - The instrument is no longer shared between systems

Historical metadata for this site has not been quality controlled for accuracy and completeness. Data other than current station information, particularly earlier than 1998, should be considered accordingly. Information may not be complete, as backfilling of historical data is incomplete.

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Notes on these metadata

Calibration

During a site inspection an instrument will be calibrated as either being within or not within the specified tolerance in accuracy.

Where a quantitative calibration result can be achieved by comparison to a transfer standard (eg barometer comparisons and tipping bucket rain gauge calibrations), the instrument will be recorded as being within or outside the required tolerance. Instruments (such as 203mm rain gauges, screens and evaporation pans) where quantitative calibrations cannot be derived should be regarded as meeting specifications when the instrument is in 'good working order'.

This product provides a summary table of the number of times an instrument was found to be out of calibration

Station Detail Changes

This set of metadata indicates when some aspect of the general information about a station has changed.

- STATION

Metadata which are categorised as pertaining to STATION are items of (textual) information describing a specific attribute of the station. A reference to (nondB seeding) indicates initial information of this field has been sourced from a previous database.

Station position

- Latitude and longitude

Derivation of station latitude and longitude, defined by the location of the rain gauge when it is present, has changed over time. Current practice is to locate or verify open and operational station latitude and longitude based on Global Positioning System equipment. Methods used to locate a station as described in this product (latlon_deriv) are as follows: GPS, MAP 1:10000, MAP 1:12500, MAP 1:25000, MAP 1:50000, MAP 1:100000, MAP 1:250000, SURVEY, and Unknown (which is more commonly represented by a null value). The field latlon_error should be used with caution as the method of determining this value has been interpreted in different ways over time.

- Height

Determination of heights for observing sites is by survey where possible. Otherwise height may be determined using a Digital Aneroid Barometer and a known surveyed point, or derived from map contours. The source of height is provided in the corresponding parameter with a suffix of "_deriv".

Heights which may appear in these metadata are:

- aero_ht
 - The official elevation of the aerodrome which normally corresponds to the altitude of the highest threshold of the runways at that airport;
- bar_ht
 - this represents the height of the mercury barometer cistern or the digital aneroid barometer above mean sea level (MSL);
- stn_ht
 - this normally represents the height of the rain gauge above MSL

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Notes on these metadata

- Land Use

To assist the long term understanding of climate change it is important to be able to determine the differences over time which are attributed to variations in the climate. Since land use has an effect on the micro climate around the site, and changes in land use will therefore affect the climate record, it is important that the characteristics of the site are monitored. Soil types are recorded as they affect the land use and also add to the knowledge of the site details.

Defined Land use Types.

- Non-vegetated (barren, desert)
- Coastal or Island
- Forest
- Open farmland, grassland or tundra
- Small town, less than 1000 population
- Town 1000 to 10,000 population
- City area with buildings less than 10 metres (3 stories)
- City area with buildings greater than 10 metres (3 stories)
- Airport

The land use code is entered on the station inspection form in the ranges 0 to 100 m, 100 to 1 km and 1km to 10 km; ie:

- lu_0_100m: Land Use 0 to 100 metres from the enclosure
- lu_100m_1km: Land Use 100 metres to 1 kilometre
- lu_1km_10km: Land Use 1 kilometre to 10 kilometres

Defined Soil Type (At Enclosure).

- unable to determine
- sand
- black soil
- clay
- rock
- red soil
- other

Surface Type (At Enclosure).

- unable to determine
- fully covered by grass
- mostly covered by grass
- partly covered by grass
- bare ground
- sand
- concrete
- asphalt
- rock
- other

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