



Basic Climatological Station Metadata

Current status

Metadata compiled: 28 JUL 2025

Station: MAWSON

Bureau of Meteorology station number: 300001

Bureau of Meteorology district name:

State: ANT

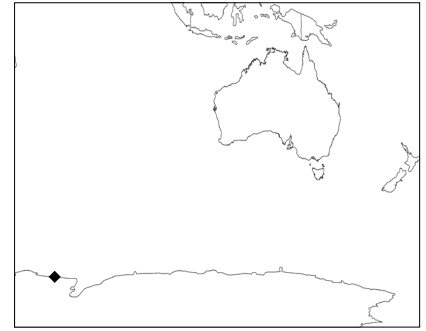
World Meteorological Organization number: 89564

Identification: MAWS

Network Classification: CLIMAT Stations, CLIMAT TEMP Stations, GCOS Surface Network, GCOS Upper Air Network, Regional Basic Synoptic Network

Station purpose: Synoptic, Upper Air, Aeronautical

Automatic Weather Station: Almos



| Current Station Location | | | | |
|---|----------------|-------------------------|---------------------|------------|
| Latitude | Decimal | -67.6017 | Hour Min Sec | 67°36'6"S |
| Longitude | Decimal | 62.8753 | Hour Min Sec | 62°52'31"E |
| Station Height | 9.9 m | Barometer Height | 16 m | |
| Method of station geographic positioning | | | GPS | |

Year opened: 1954

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.

Prepared by the Bureau of Meteorology.

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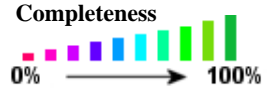
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| Station: MAWSON | Location: MAWSON | | | State: ANT | |
| Bureau No.: 300001 | WMO No.: 89564 | Aviation ID: MAWS | Opened: 01 Jan 1954 | Current Status: Still open | |
| Latitude: -67.6017 | Longitude: 62.8753 | Elevation: 9.9 m | Barometer Elev: 16 m | 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 |
|----------------------------|------------------|------------------|---------------------------|--------------------|--------------------|
| GROUND MINIMUM TEMPERATURE | MAY 1954 | FEB 1958 | 99.2 | 11 | 0 |
| 1 8 5 0 | 1 9 0 0 | 1 9 0 0 | 1 9 5 0 | 2 0 0 0 | 0 0 0 0 |
| MAXIMUM AIR TEMPERATURE | MAR 1954 | JUN 2025 | 99.8 | 48 | 0 |
| 1 8 5 0 | 1 9 0 0 | 1 9 0 0 | 1 9 5 0 | 2 0 0 0 | 0 0 0 0 |
| MAXIMUM WIND GUST SPEED | MAY 1954 | JUN 2025 | 99.2 | 204 | 0 |
| 1 8 5 0 | 1 9 0 0 | 1 9 0 0 | 1 9 5 0 | 2 0 0 0 | 0 0 0 0 |
| SUNSHINE HOURS | MAR 1955 | JUN 2025 | 99.3 | 160 | 0 |
| 1 8 5 0 | 1 9 0 0 | 1 9 0 0 | 1 9 5 0 | 2 0 0 0 | 0 0 0 0 |
| WIND RUN ABOVE 10 FEET | MAR 1955 | JUN 2025 | 98.7 | 195 | 4 |
| 1 8 5 0 | 1 9 0 0 | 1 9 0 0 | 1 9 5 0 | 2 0 0 0 | 0 0 0 0 |
| WIND RUN BELOW 10 FEET | JUN 1990 | DEC 1994 | 6.8 | 7 | 51 |
| 1 8 5 0 | 1 9 0 0 | 1 9 0 0 | 1 9 5 0 | 2 0 0 0 | 0 0 0 0 |
| RAINFALL | null | null | null | N/A | N/A |
| 1 8 5 0 | 1 9 0 0 | 1 9 0 0 | 1 9 5 0 | 2 0 0 0 | 0 0 0 0 |

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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 | FEB 1954 | JUN 2025 | 99.7 | 8.8 | 23 | 0 |
| 1 8 5 0 | 1 9 0 0 | 1 9 0 0 | 1 9 5 0 | | | |
| DEW POINT | FEB 1954 | JUN 2025 | 99.5 | 8.8 | 26 | 0 |
| 1 8 5 0 | 1 9 0 0 | 1 9 0 0 | 1 9 5 0 | | | |
| MEAN SEA LEVEL PRESSURE | FEB 1954 | JUN 2025 | 99.7 | 8.8 | 23 | 0 |
| 1 8 5 0 | 1 9 0 0 | 1 9 0 0 | 1 9 5 0 | | | |
| TOTAL CLOUD AMOUNT | FEB 1954 | JUN 2025 | 94.5 | 5.8 | 454 | 0 |
| 1 8 5 0 | 1 9 0 0 | 1 9 0 0 | 1 9 5 0 | | | |
| WIND SPEED | FEB 1954 | JUN 2025 | 99.6 | 8.8 | 32 | 0 |
| 1 8 5 0 | 1 9 0 0 | 1 9 0 0 | 1 9 5 0 | | | |
| UPPER AIR TEMPERATURE | JUN 1955 | JUN 2025 | 84.9 | 1.3 | 1497 | 47 |
| 1 8 5 0 | 1 9 0 0 | 1 9 0 0 | 1 9 5 0 | | | |
| UPPER AIR WIND SPEED | APR 1954 | JUN 2025 | 79.6 | 1.8 | 1304 | 81 |
| 1 8 5 0 | 1 9 0 0 | 1 9 0 0 | 1 9 5 0 | | | |

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THERE ARE NO RAINFALL INTENSITY DATA HOLDINGS

ONE-MINUTE DATA HOLDINGS

| OBSERVATION TYPE | FIRST MONTH | LAST MONTH | COMPLETENESS (% estimate) | FREQUENCY average daily | SINGLE DAYS MISSED | FULL MONTHS MISSED |
|------------------|-------------|------------|---------------------------|-------------------------|--------------------|--------------------|
| ALL ELEMENTS | MAY 2002 | JUL 2025 | 98.7 | 1421.2 | 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 | MAR 1996 | JUL 2025 | 111.7 | 53.6 | N/A | 37 |

UPPER-AIR EDT DATA HOLDINGS

| OBSERVATION TYPE | FIRST MONTH | LAST MONTH | COMPLETENESS (% estimate) | FREQUENCY average daily | SINGLE DAYS MISSED | FULL MONTHS MISSED |
|--|-------------|------------|---------------------------|-------------------------|--------------------|--------------------|
| Wind only flights | Aug 2003 | Nov 2018 | N/A | 1.0 | 882 | 152 |
| Wind, temperature and pressure flights | Jan 1993 | Mar 2019 | N/A | 1.5 | 445 | 0 |

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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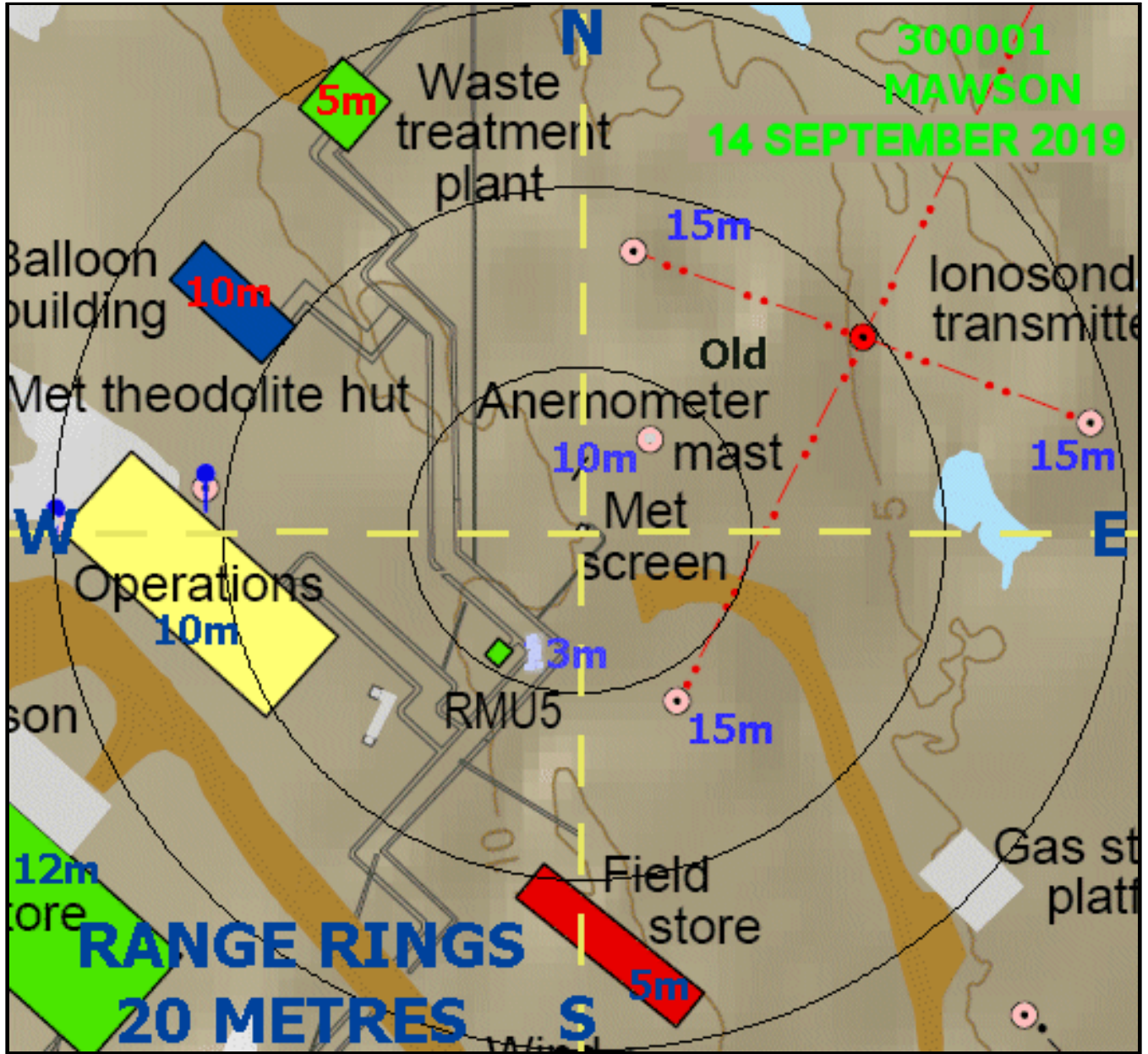
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Extended Climatological Station Metadata
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Instrument Location and Surrounding Features
14/09/2019(most recent)



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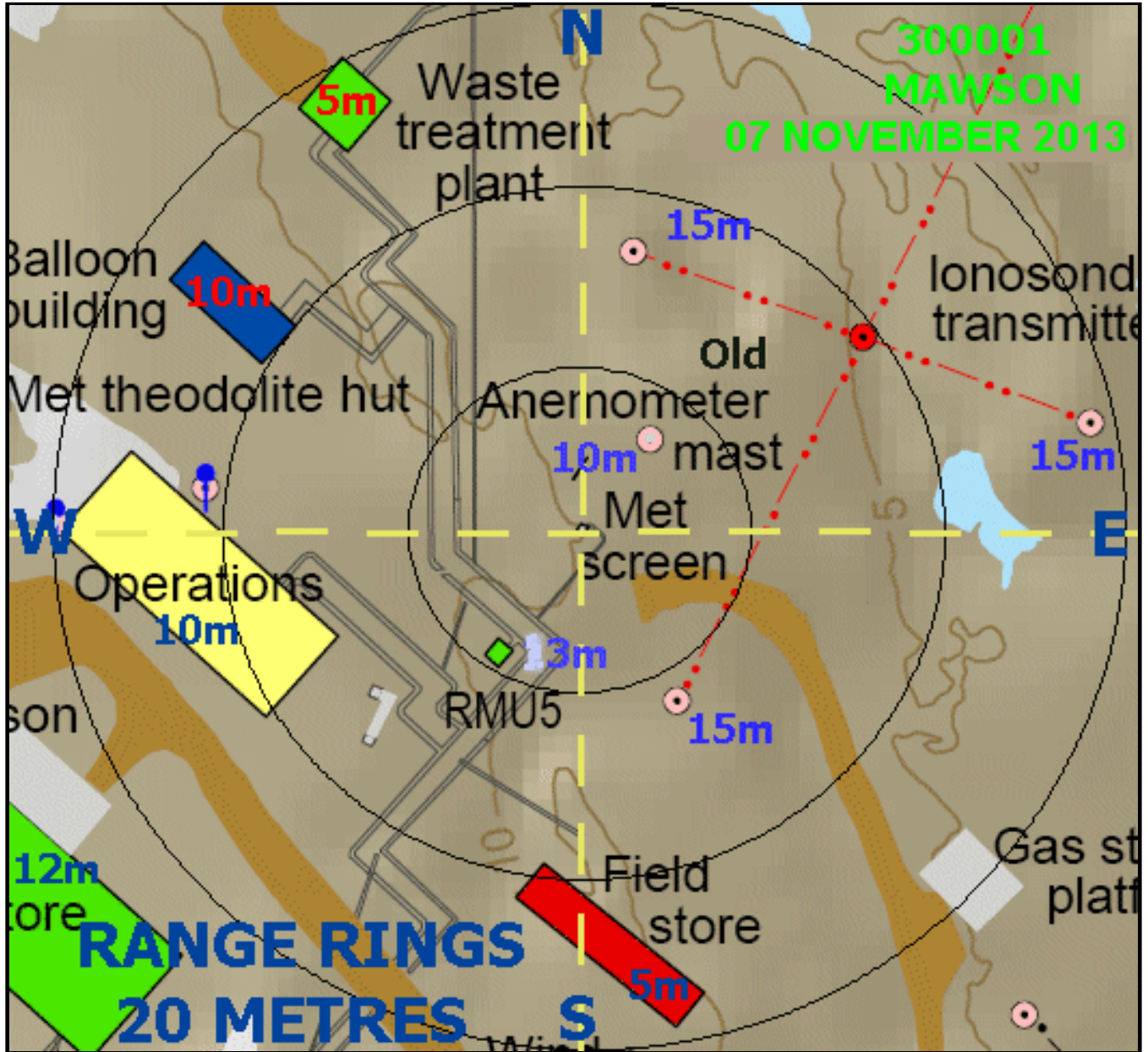
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Instrument Location and Surrounding Features
07/11/2013



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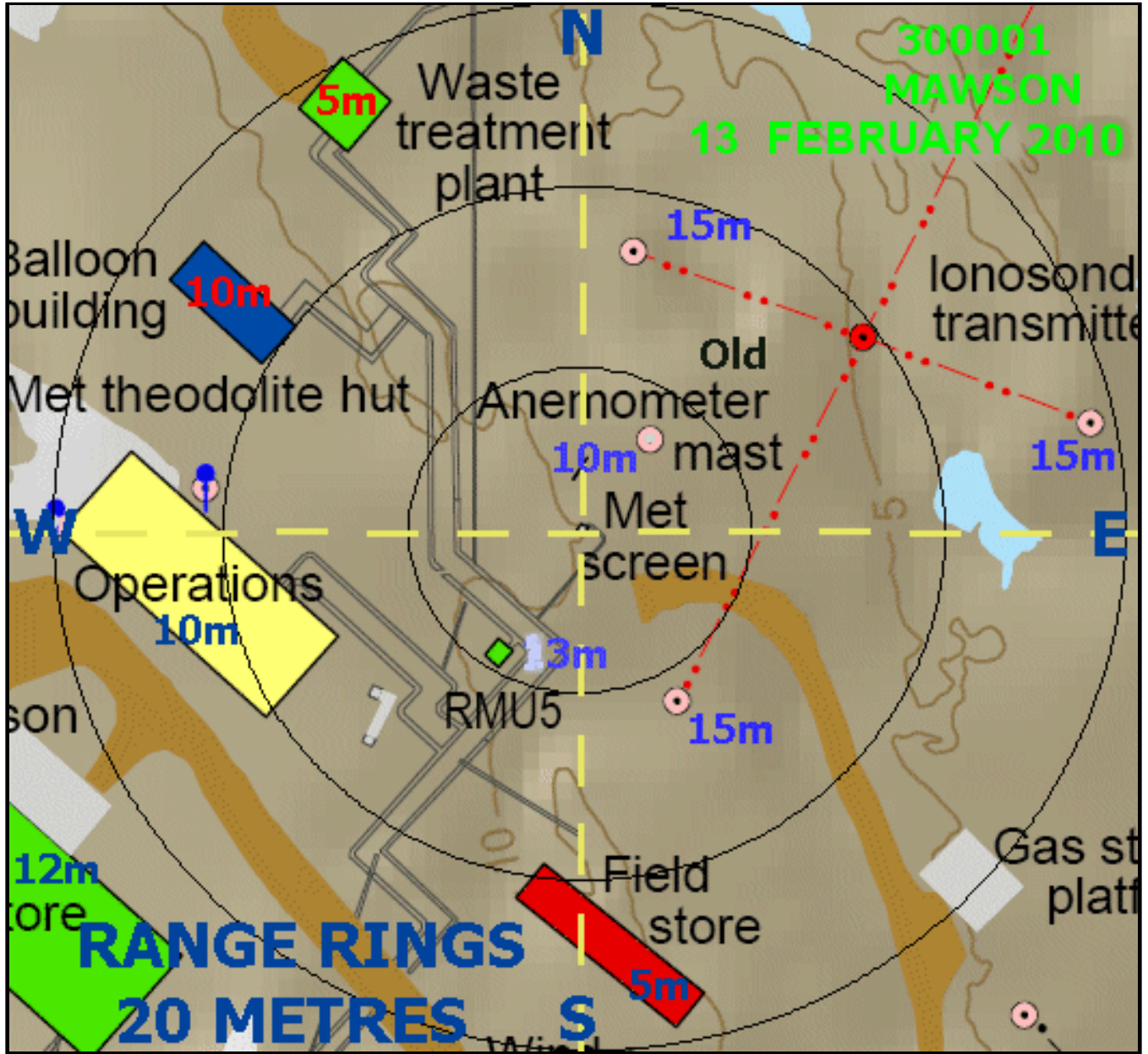
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Instrument Location and Surrounding Features
13/02/2010



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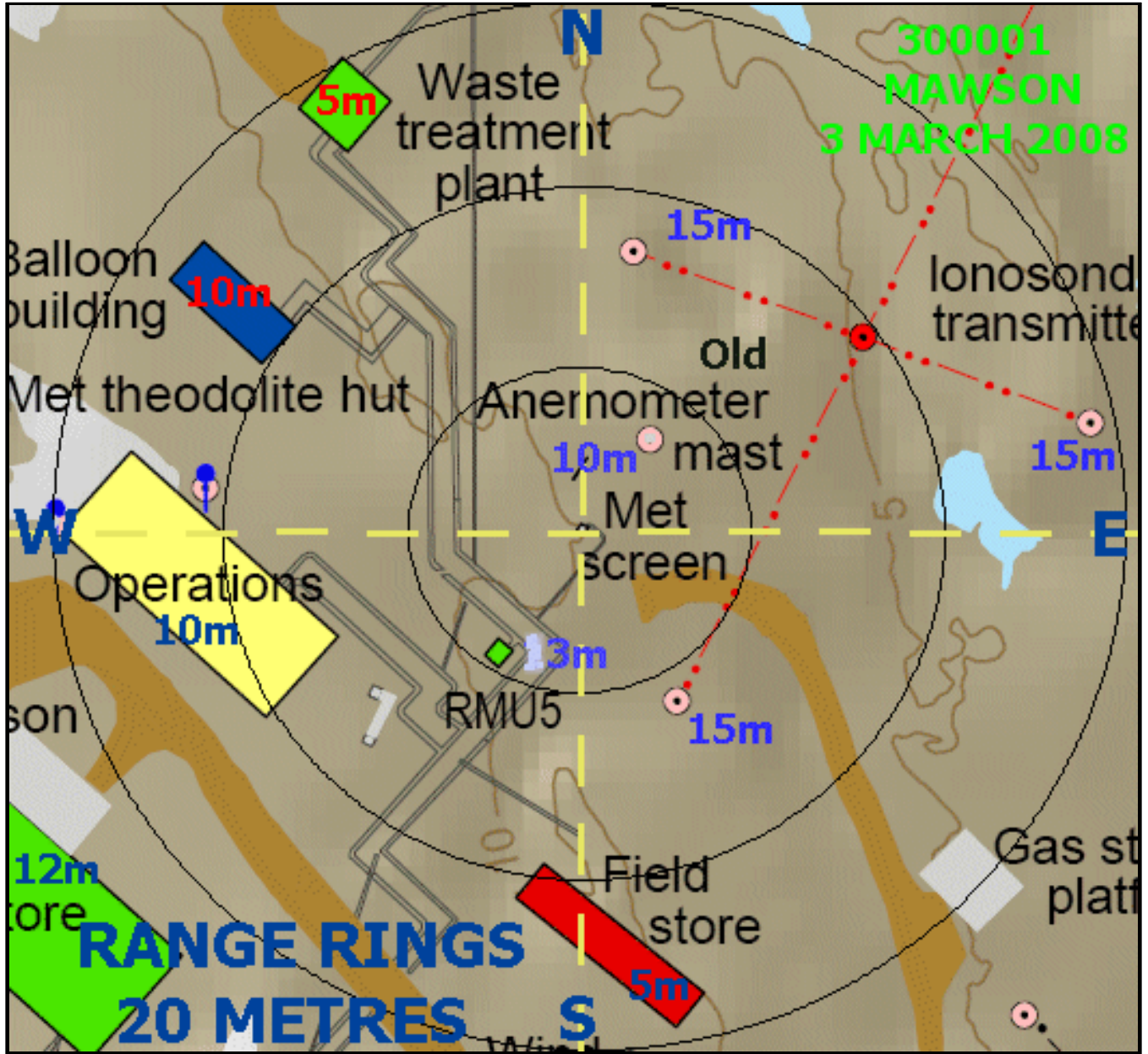
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Instrument Location and Surrounding Features
29/02/2008



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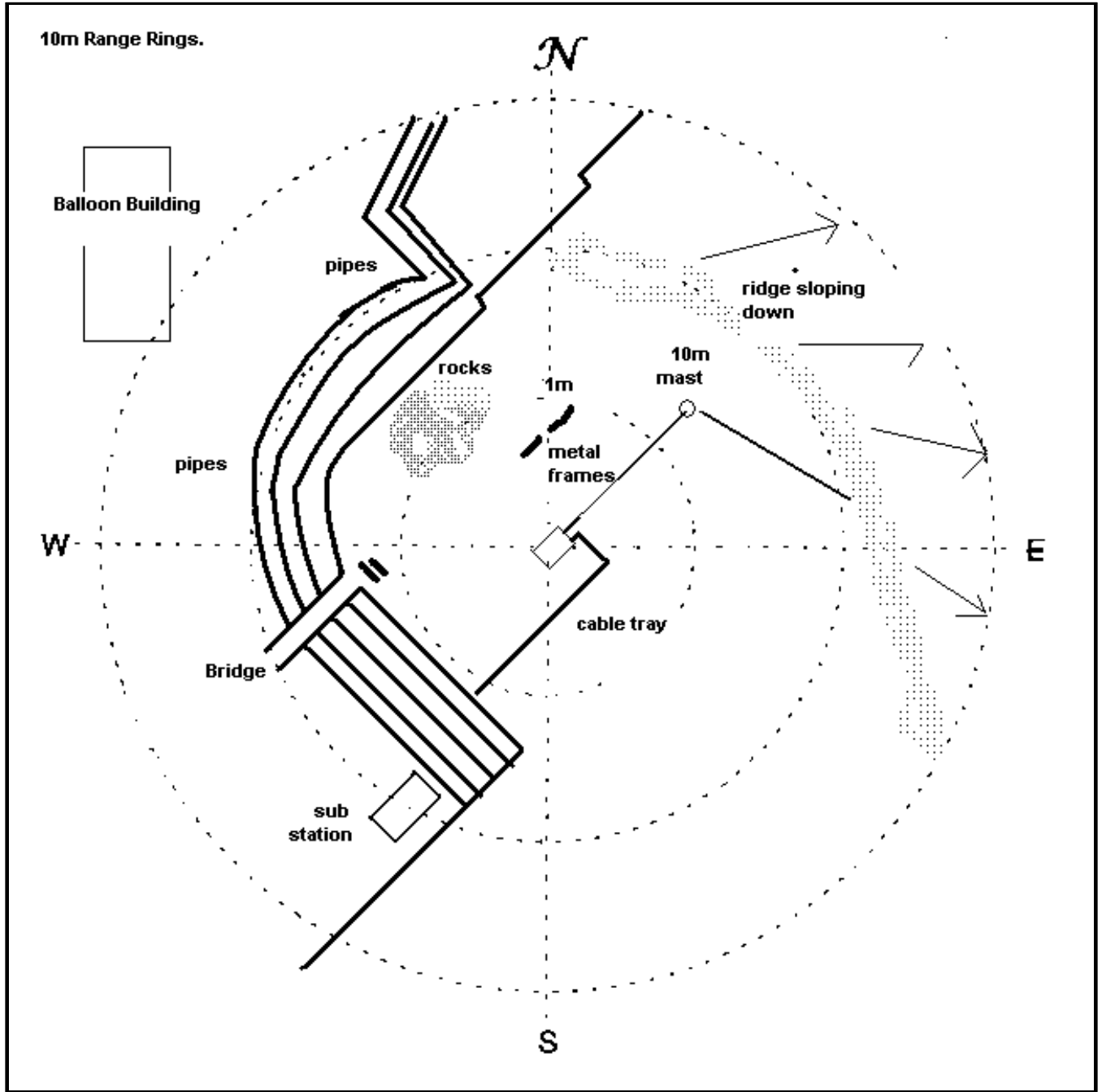
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Instrument Location and Surrounding Features

15/02/2002



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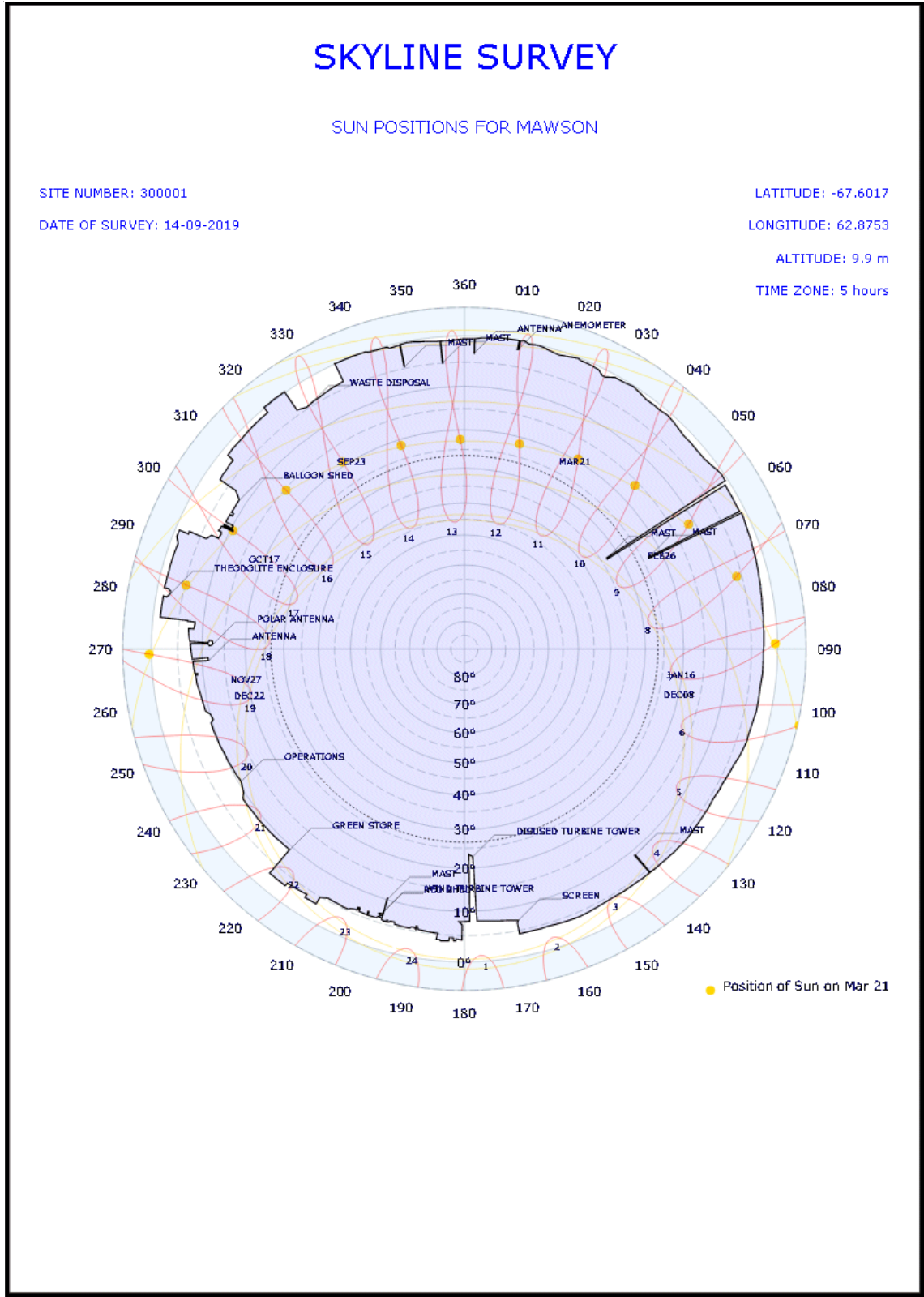


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Skyline Diagram 14/09/2019(most recent)



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Skyline Diagram

13/02/2010

SKYLINE SURVEY

SUN POSITIONS FOR MAWSON

SITE NUMBER: 300001

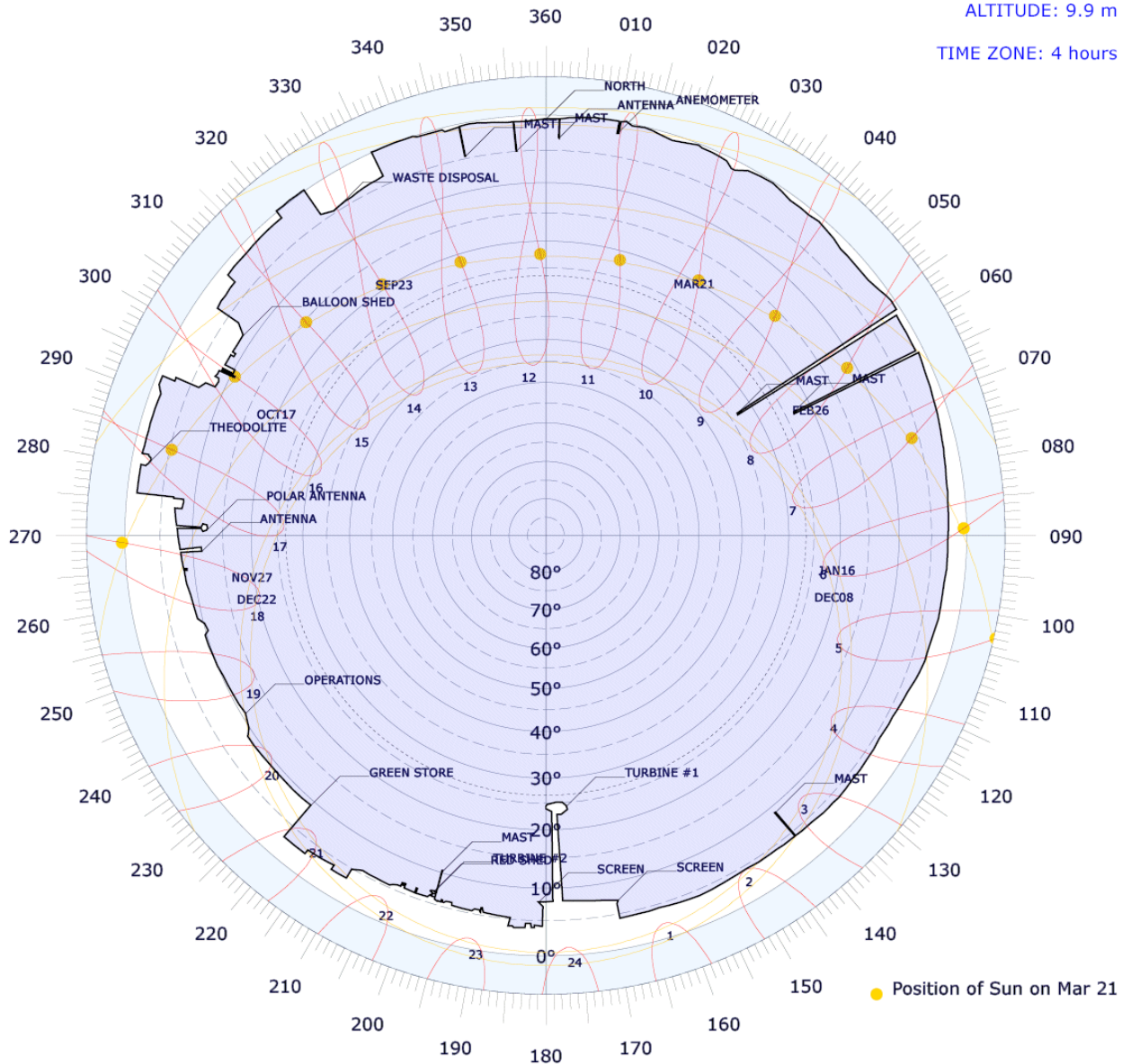
LATITUDE: -67.6017

DATE OF SURVEY: 13-02-2010

LONGITUDE: 062.8753

ALTITUDE: 9.9 m

TIME ZONE: 4 hours



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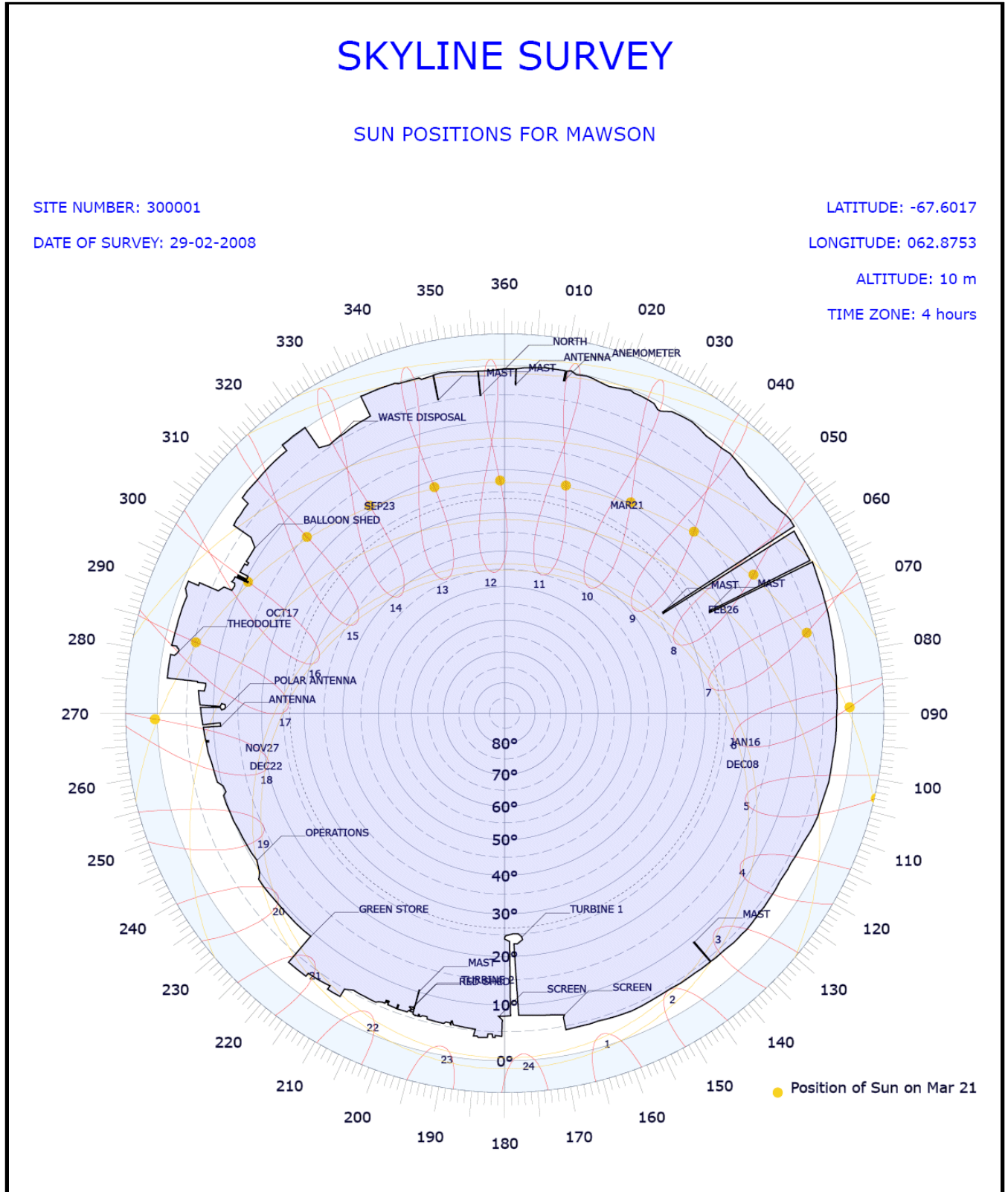
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Skyline Diagram

29/02/2008



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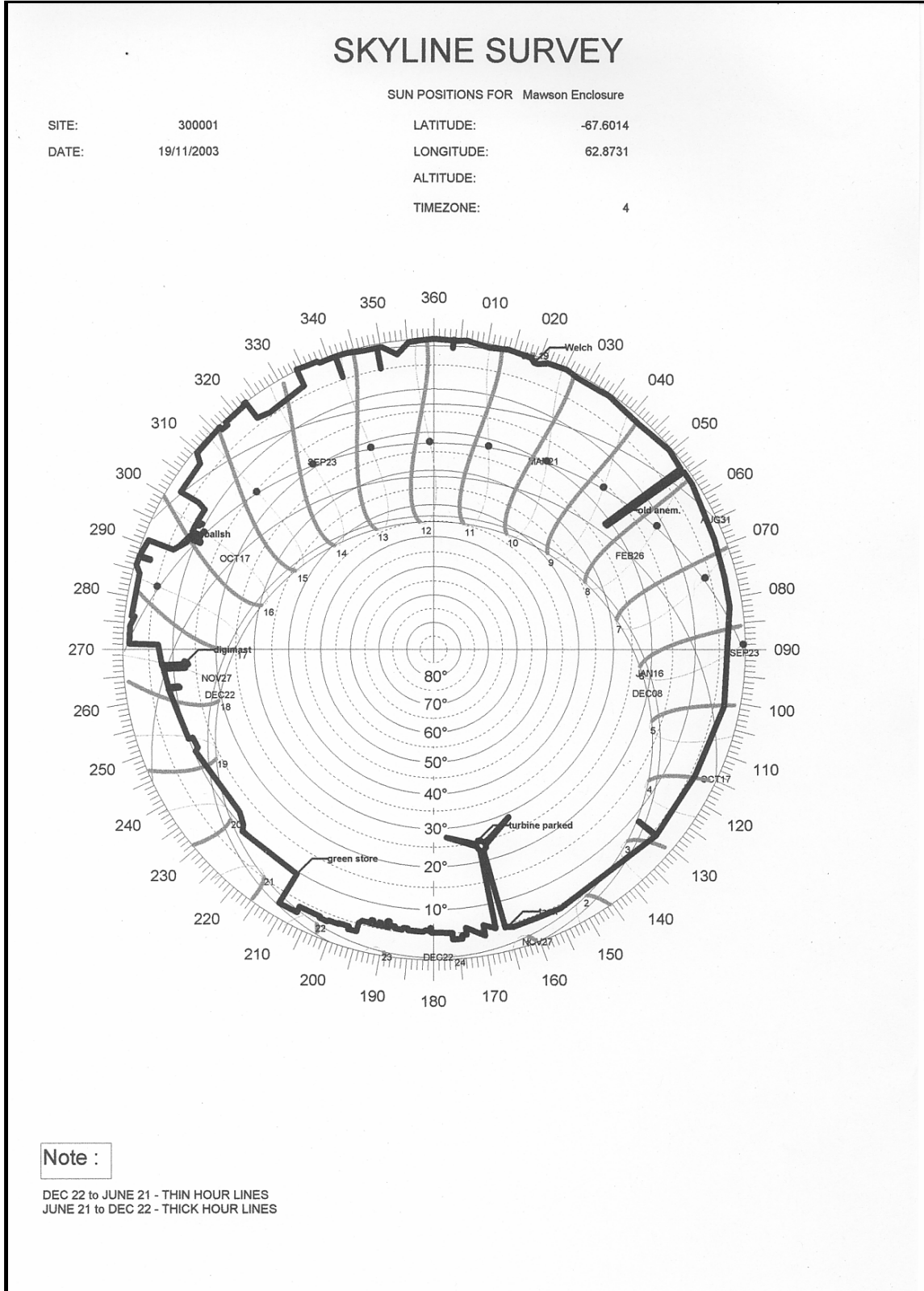
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Skyline Diagram

19/11/2003



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Station Observation Program Summary (Surface Observations) from 23/02/1954 to 15/01/1994

| 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 | 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 15/01/1994 to 10/02/1998

| 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 10/02/1998 to 05/01/2005

| 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) 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 | - | - | - | - | - | - | - | - |

Upper Air Routine 26/08/1997 to 05/01/2005

| Flight type | Time UTC | Mon | Tue | Wed | Thur | Fri | Sat | Sun |
|--------------|----------|-----|-----|-----|------|-----|-----|-----|
| Wind & Temp. | 00:00 | Y | Y | Y | Y | Y | Y | Y |
| Wind & Temp. | 06:00 | - | - | - | - | - | - | - |

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| | | | | | | | | | |
|------------------|--------------|-------|---|---|---|---|---|---|---|
| Station metadata | Wind & Temp. | 00:00 | Y | Y | Y | Y | Y | Y | Y |
| | Wind | 06:00 | - | - | - | - | - | - | - |
| | Wind | 12:00 | Y | Y | Y | Y | Y | Y | Y |
| | Wind | 18:00 | - | - | - | - | - | - | - |



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Upper Air Routine 05/01/2005 to 01/04/2008

| Flight type | Time UTC | Mon | Tue | Wed | Thur | Fri | Sat | Sun |
|--------------|----------|-----|-----|-----|------|-----|-----|-----|
| Wind & Temp. | 00:00 | Y | Y | Y | Y | Y | Y | Y |
| Wind & Temp. | 06:00 | - | - | - | - | - | - | - |
| Wind & Temp. | 12:00 | - | - | - | - | - | - | - |
| Wind & Temp. | 18:00 | - | - | - | - | - | - | - |
| Wind | 00:00 | Y | Y | Y | Y | Y | Y | Y |
| Wind | 06:00 | - | - | - | - | - | - | - |
| Wind | 12:00 | - | - | - | - | - | - | - |
| Wind | 18:00 | - | - | - | - | - | - | - |

Upper Air Routine 01/04/2008 (most recent)

| Flight type | Time UTC | Mon | Tue | Wed | Thur | Fri | Sat | Sun |
|--------------|----------|-----|-----|-----|------|-----|-----|-----|
| Wind & Temp. | 00:00 | - | - | - | - | - | - | - |
| Wind & Temp. | 06:00 | - | - | - | - | - | - | - |
| Wind & Temp. | 12:00 | Y | Y | Y | Y | Y | Y | Y |
| Wind & Temp. | 18:00 | - | - | - | - | - | - | - |
| Wind | 00:00 | - | - | - | - | - | - | - |
| Wind | 06:00 | - | - | - | - | - | - | - |
| Wind | 12:00 | Y | Y | Y | Y | Y | Y | Y |
| Wind | 18:00 | - | - | - | - | - | - | - |

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Extended Climatological Station Metadata

All History

| | | | | |
|---------------------------|---------------------------|--------------------------|-----------------------------|---------------------------------------|
| Station: MAWSON | Location: MAWSON | | | State: ANT |
| Bureau No.: 300001 | WMO No.: 89564 | Aviation ID: MAWS | Opened: 01 Jan 1954 | Current Status: Still open |
| Latitude: -67.6017 | Longitude: 62.8753 | Elevation: 9.9 m | Barometer Elev: 16 m | Metadata compiled: 28 JUL 2025 |

Station Equipment History

Equipment Install/Remove

Cloud Height (No Electronic History)

Humidity

- 15/JAN/1994 INSTALL Humidity Probe (Type Rotronics S/N - 1646200/29) Surface Observations
- 08/SEP/2014 INSTALL Humidity Probe (Type Vaisala HMP45DX S/N - Y0450005) Surface Observations
- 08/SEP/2014 REMOVE Humidity Probe (Type Vaisala HMP45D S/N - A3850014) Surface Observations
- 12/MAY/2002 REPLACE Humidity Probe (Now Rotronics S/N - 713202/2) Surface Observations
- 11/OCT/2010 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - A3850014) Surface Observations
- 23/SEP/2019 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - A3850014) Surface Observations
- 23/AUG/2017 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - A3850014) Surface Observations
- 15/NOV/2004 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - X4230019) Surface Observations
- 28/SEP/2019 REPLACE Humidity Probe (Now Vaisala HMP45DX S/N - Y0450005) Surface Observations
- 11/AUG/2018 REPLACE Humidity Probe (Now Vaisala HMP45DX S/N - Y0450005) Surface Observations
- 01/AUG/2005 REPLACE Humidity Probe (Now Vaisala HMP45DX S/N - Y0450020) Surface Observations
- 23/FEB/1954 INSTALL Hygrograph (Type Hair Hygrograph S/N - Unknown) Surface Observations
- 31/DEC/1992 REMOVE Hygrograph (Type Hair Hygrograph S/N - Unknown) Surface Observations

Pressure Trend

- 08/JAN/2000 INSTALL Barograph (Type Weekly S/N - CBM0009) Surface Observations

Lightning (No Electronic History)

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

- 25/NOV/2008 INSTALL Anemometer (Type Synchronac Cups - Type 732 S/N - 76370) Surface Observations
- 15/JAN/1994 INSTALL Anemometer (Type Synchronac Vane - Type 706 S/N - NONE) Surface Observations
- 24/JUN/2002 INSTALL Mast Anemometer (Type Free Standing, Hex 15m S/N - NONE) Infrastructure
- 25/NOV/2015 REPLACE Anemometer (Now Synchronac Cups - Type 732 S/N - 78289) Surface Observations
- 21/JUN/2012 REPLACE Anemometer (Now Synchronac Cups - Type 732 S/N - 86731) Surface Observations
- 17/AUG/2018 REPLACE Anemometer (Now Synchronac Cups - Type 732 S/N - 91678) Surface Observations
- 25/NOV/2008 REPLACE Anemometer (Now Synchronac Vane - Type 706 S/N - 76470) Surface Observations
- 19/NOV/2003 REPLACE Anemometer (Now Synchronac Vane - Type 706 S/N - 78282&11) Surface Observations
- 14/JAN/2002 REPLACE Anemometer (Now Synchronac Vane - Type 706 S/N - 85/1193) Surface Observations
- 17/AUG/2018 REPLACE Anemometer (Now Synchronac Vane - Type 706 S/N - 91661) Surface Observations
- 25/NOV/2015 REPLACE Anemometer (Now Synchronac Vane - Type 706 S/N - NONE) Surface Observations

Wet Bulb Temperature (No Electronic History)

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

- 23/FEB/1954 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 17212) Surface Observations
- 12/FEB/2012 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 17212) Surface Observations
- 15/FEB/2002 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 19418) Surface Observations
- 05/FEB/2019 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 23590) Surface Observations
- 28/AUG/2011 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 25871) Surface Observations

Soil Temperature 10cm (No Electronic History)

Soil Temperature 20cm (No Electronic History)

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Extended Climatological Station Metadata

All History

| | | | | |
|---------------------------|---------------------------|--------------------------|-----------------------------|---------------------------------------|
| Station: MAWSON | Location: MAWSON | | | State: ANT |
| Bureau No.: 300001 | WMO No.: 89564 | Aviation ID: MAWS | Opened: 01 Jan 1954 | Current Status: Still open |
| Latitude: -67.6017 | Longitude: 62.8753 | Elevation: 9.9 m | Barometer Elev: 16 m | Metadata compiled: 28 JUL 2025 |

Station Equipment History (continued)

Equipment Install/Remove(Continued)

Soil Temperature 50cm (No Electronic History)

Snow Height (No Electronic History)

Soil Temperature 100cm (No Electronic History)

Sunshine Hours

01/APR/1955 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - M10377) Surface Observations

Wind Run (No Electronic History)

Minimum Temperature

23/FEB/1954 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - 17073) Surface Observations

28/NOV/2005 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 17049) Surface Observations

05/APR/2005 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 19402) Surface Observations

15/FEB/2002 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 19409) Surface Observations

23/FEB/2013 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 19409) Surface Observations

27/OCT/2009 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 19410) Surface Observations

07/SEP/2012 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 20904) Surface Observations

04/SEP/2012 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 20905) Surface Observations

15/NOV/2004 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 23206) Surface Observations

01/NOV/2005 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 23206) Surface Observations

02/SEP/2009 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 23260) Surface Observations

08/SEP/2012 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 23610) Surface Observations

26/AUG/2017 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - M6336) Surface Observations

10/JUL/2013 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - M6699) Surface Observations

01/MAY/2014 REPLACE Thermometer, Alcohol, Min (Now Unknown S/N - 17226) Surface Observations

Terrestrial Minimum Temperature (No Electronic History)

Visibility (No Electronic History)

Soil Temperature 5cm (No Electronic History)

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Oxygen Content

19/FEB/2001 INSTALL Gas Analyser (Type Teledyne 311P S/N - Unknown) Upper Air

29/DEC/2005 REMOVE Gas Analyser (Type Teledyne 311P S/N - Unknown) Upper Air

RF Reflectivity (No Electronic History)

Total Column Ozone Amount (No Electronic History)

Pressure

01/MAR/1954 INSTALL Barometer (Type Kew pattern mercury S/N - 1863) Surface Observations

29/AUG/1994 INSTALL Barometer (Type Negretti and Zambra Mk I S/N - CBM083) Surface Observations

10/OCT/1995 INSTALL Barometer (Type Negretti and Zambra Mk II S/N - CBM183) Surface Observations

05/SEP/1996 INSTALL Barometer (Type Negretti and Zambra Mk II S/N - CBM194) Surface Observations

15/FEB/2000 INSTALL Barometer (Type Vaisala PA11A S/N - 561178) Surface Observations

13/SEP/1994 INSTALL Barometer (Type Vaisala PA11A S/N - 659028) Surface Observations

17/OCT/1995 INSTALL Barometer (Type Vaisala PA11A S/N - P3720018) Surface Observations

07/NOV/2019 INSTALL ROBTS: Reg Obs Barometer Tfr Std (Type BoM S/N - 052) Reference Standards

29/FEB/2008 INSTALL ROBTS: Reg Obs Barometer Tfr Std (Type BoM S/N - ROBT50) Reference Standards

11/SEP/2000 REMOVE Barometer (Type Kew pattern mercury S/N - 1863) Surface Observations

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Extended Climatological Station Metadata

All History

| | | | | |
|---------------------------|---------------------------|--------------------------|-----------------------------|---------------------------------------|
| Station: MAWSON | Location: MAWSON | | | State: ANT |
| Bureau No.: 300001 | WMO No.: 89564 | Aviation ID: MAWS | Opened: 01 Jan 1954 | Current Status: Still open |
| Latitude: -67.6017 | Longitude: 62.8753 | Elevation: 9.9 m | Barometer Elev: 16 m | Metadata compiled: 28 JUL 2025 |

Station Equipment History (continued)

Equipment Install/Remove(Continued)

- 06/SEP/2000 REMOVE Barometer (Type Negretti and Zambra Mk I S/N - CBM083) Surface Observations
- 06/SEP/2000 REMOVE Barometer (Type Negretti and Zambra Mk II S/N - CBM183) Surface Observations
- 06/SEP/2000 REMOVE Barometer (Type Negretti and Zambra Mk II S/N - CBM194) Surface Observations
- 29/FEB/2008 REMOVE Barometer (Type Vaisala PA11A S/N - 561178) Surface Observations
- 11/SEP/2000 REMOVE Barometer (Type Vaisala PA11A S/N - 659028) Surface Observations
- 18/JUN/2020 REMOVE ROBTS: Reg Obs Barometer Tfr Std (Type BoM S/N - 53) Reference Standards
- 17/JUL/2007 REPLACE Barometer (Now Vaisala PTB220B S/N - B0250013) Surface Observations
- 11/FEB/2015 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - 049) Reference Standards
- 29/FEB/2012 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - 052) Reference Standards
- 17/NOV/2013 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - 17) Reference Standards
- 08/JAN/2017 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - 33) Reference Standards
- 18/MAR/2019 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - 53) Reference Standards
- 20/FEB/2018 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - 60) Reference Standards
- 23/MAR/2021 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - 81) Reference Standards

Evaporation (No Electronic History)

Rainfall (No Electronic History)

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

- 25/NOV/2008 INSTALL Anemometer (Type Synchronac Cups - Type 732 S/N - 76370) Surface Observations
- 15/JAN/1994 INSTALL Anemometer (Type Synchronac Vane - Type 706 S/N - NONE) Surface Observations
- 24/JUN/2002 INSTALL Mast Anemometer (Type Free Standing, Hex 15m S/N - NONE) Infrastructure
- 25/NOV/2015 REPLACE Anemometer (Now Synchronac Cups - Type 732 S/N - 78289) Surface Observations
- 21/JUN/2012 REPLACE Anemometer (Now Synchronac Cups - Type 732 S/N - 86731) Surface Observations
- 17/AUG/2018 REPLACE Anemometer (Now Synchronac Cups - Type 732 S/N - 91678) Surface Observations
- 25/NOV/2008 REPLACE Anemometer (Now Synchronac Vane - Type 706 S/N - 76470) Surface Observations
- 19/NOV/2003 REPLACE Anemometer (Now Synchronac Vane - Type 706 S/N - 78282&11) Surface Observations
- 14/JAN/2002 REPLACE Anemometer (Now Synchronac Vane - Type 706 S/N - 85/1193) Surface Observations
- 17/AUG/2018 REPLACE Anemometer (Now Synchronac Vane - Type 706 S/N - 91661) Surface Observations
- 25/NOV/2015 REPLACE Anemometer (Now Synchronac Vane - Type 706 S/N - NONE) Surface Observations

Air Temperature

- 15/JAN/1994 INSTALL Humidity Probe (Type Rotronics S/N - 1646200/29) Surface Observations
- 08/SEP/2014 INSTALL Humidity Probe (Type Vaisala HMP45DX S/N - Y0450005) Surface Observations
- 08/SEP/2014 REMOVE Humidity Probe (Type Vaisala HMP45D S/N - A3850014) Surface Observations
- 12/MAY/2002 REPLACE Humidity Probe (Now Rotronics S/N - 713202/2) Surface Observations
- 11/OCT/2010 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - A3850014) Surface Observations
- 23/SEP/2019 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - A3850014) Surface Observations
- 23/AUG/2017 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - A3850014) Surface Observations
- 15/NOV/2004 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - X4230019) Surface Observations

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Extended Climatological Station Metadata

All History

| | | | | |
|---------------------------|---------------------------|--------------------------|-----------------------------|---------------------------------------|
| Station: MAWSON | Location: MAWSON | | | State: ANT |
| Bureau No.: 300001 | WMO No.: 89564 | Aviation ID: MAWS | Opened: 01 Jan 1954 | Current Status: Still open |
| Latitude: -67.6017 | Longitude: 62.8753 | Elevation: 9.9 m | Barometer Elev: 16 m | Metadata compiled: 28 JUL 2025 |

Station Equipment History (continued)

Equipment Install/Remove(Continued)

28/SEP/2019 REPLACE Humidity Probe (Now Vaisala HMP45DX S/N - Y0450005) Surface Observations
 11/AUG/2018 REPLACE Humidity Probe (Now Vaisala HMP45DX S/N - Y0450005) Surface Observations
 01/AUG/2005 REPLACE Humidity Probe (Now Vaisala HMP45DX S/N - Y0450020) Surface Observations
 15/JAN/1994 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - NONE) Surface Observations
 23/AUG/2017 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - 0521) Surface Observations
 01/APR/2004 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - 0656) Surface Observations
 23/SEP/2019 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - 0656) Surface Observations
 23/FEB/1954 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - M2352) Surface Observations
 24/DEC/2019 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - M2334) 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 multi-stage quality control process.

| Available Date Range | Element | Fail Field Performance Check |
|---------------------------|---------------------|------------------------------|
| 23/NOV/2000 - 22/JAN/2021 | Humidity | 7 |
| 19/NOV/2003 - 14/SEP/2019 | Pressure Trend | 0 |
| 14/SEP/2002 - 16/OCT/2020 | Wind Direction | 4 |
| 29/FEB/2008 - 14/SEP/2019 | Maximum Temperature | 0 |
| 29/FEB/2008 - 14/SEP/2019 | Minimum Temperature | 0 |
| 15/FEB/2002 - 15/JUL/2021 | Pressure | 2 |
| 14/SEP/2002 - 16/OCT/2020 | Wind Speed | 4 |
| 23/NOV/2000 - 15/JUL/2021 | Air Temperature | 7 |

Station Detail Changes

01/FEB/2021 CLASSIFICATION AWS Priority 3 - Standard (SLP3-AWS)
 30/JUL/2013 CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT)
 15/JAN/1994 CLASSIFICATION Building (FBL)
 26/JUN/2002 CLASSIFICATION CLIMAT Stations (CLC)
 26/FEB/2002 CLASSIFICATION CLIMAT TEMP Stations (CLT)
 26/OCT/2022 CLASSIFICATION Cold Climate Site (COLD)
 10/JAN/2011 CLASSIFICATION Critical (ASOSCRIT)
 01/MAY/1997 CLASSIFICATION GCOS Surface Network (GSN)
 14/FEB/1997 CLASSIFICATION GCOS Upper Air Network (GUAN)
 28/MAY/2021 CLASSIFICATION Mastered in EAMS (EAMS)
 21/MAR/2016 CLASSIFICATION NOT Processed by ASOS (NPBA)
 01/JUL/1998 CLASSIFICATION Observations Only (MO)
 01/JUL/2017 CLASSIFICATION Observing Operations Hub - Hobart (OOH-H)
 01/JUL/1998 CLASSIFICATION Rawinsonde Stations (RS)
 01/SEP/1992 CLASSIFICATION Reference Climate Stations (RCS) ENDED 30-06-2011
 14/FEB/1997 CLASSIFICATION Regional Basic Synoptic Network (RBSN)

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|---------------------------|---------------------------|--------------------------|-----------------------------|---------------------------------------|
| Station: MAWSON | Location: MAWSON | | | State: ANT |
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| Latitude: -67.6017 | Longitude: 62.8753 | Elevation: 9.9 m | Barometer Elev: 16 m | Metadata compiled: 28 JUL 2025 |

Station Equipment History (continued)

Station Detail Changes(Continued)

19/NOV/2003 OBJECT Document/300001031119rmks
 19/NOV/2003 OBJECT Document/300001031119ssrrmks
 14/SEP/2019 OBJECT Document/300001190914sunshine
 24/APR/2000 OBJECT Document/F611 maw0004
 31/JUL/2000 OBJECT Document/F611 maw0007
 30/APR/2001 OBJECT Document/F611 maw0104
 05/APR/2002 OBJECT Document/F611 maw0204
 12/AUG/2002 OBJECT Document/F611 maw0208
 29/NOV/2002 OBJECT Document/F611 maw0211
 05/MAR/2003 OBJECT Document/F611 maw0303
 04/AUG/2003 OBJECT Document/F611 maw0308
 30/DEC/2003 OBJECT Document/F611 maw0312
 18/MAR/2004 OBJECT Document/F611 maw0403
 29/JUN/2004 OBJECT Document/F611 maw0406
 29/SEP/2004 OBJECT Document/F611 maw0409
 06/DEC/2004 OBJECT Document/F611 maw0412
 14/MAR/2005 OBJECT Document/F611 maw0504
 03/JUN/2005 OBJECT Document/F611 maw0506
 25/SEP/2006 OBJECT Document/F611 maw0609
 04/JAN/2007 OBJECT Document/F611 maw0701
 10/MAR/2007 OBJECT Document/F611 maw0703
 26/JUN/2007 OBJECT Document/F611 maw0706
 26/SEP/2007 OBJECT Document/F611 maw0709
 01/DEC/2007 OBJECT Document/F611 maw0712
 01/DEC/2008 OBJECT Document/F611 maw0812
 01/JAN/2009 OBJECT Document/F611 maw0903
 01/JUN/2009 OBJECT Document/F611 maw0906
 19/OCT/2009 OBJECT Document/F611 maw0910
 04/JAN/2011 OBJECT Document/F611 maw1101
 08/MAY/2011 OBJECT Document/F611 maw1105
 01/AUG/2011 OBJECT Document/F611 maw1108
 16/JAN/2013 OBJECT Document/F611 maw1301
 29/MAR/2013 OBJECT Document/F611 maw1303
 10/JAN/1996 OBJECT Document/F611 maw9601
 24/JAN/1997 OBJECT Document/F611 maw9701
 02/FEB/1998 OBJECT Document/F611 maw9802
 21/OCT/2000 OBJECT Document/F611maw0010
 15/NOV/2008 OBJECT Document/H2_Vessel_PV790_05_2008
 02/AUG/2011 OBJECT Document/H2_Vessel_PV790_05_2011
 15/NOV/2008 OBJECT Document/H2_Vessel_PV790_06_2008
 02/AUG/2011 OBJECT Document/H2_Vessel_PV790_06_2011
 15/NOV/2008 OBJECT Document/H2_Vessel_PV790_07_2008
 02/AUG/2011 OBJECT Document/H2_Vessel_PV790_07_2011

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| Bureau No.: 300001 | WMO No.: 89564 | Aviation ID: MAWS | Opened: 01 Jan 1954 | Current Status: Still open |
| Latitude: -67.6017 | Longitude: 62.8753 | Elevation: 9.9 m | Barometer Elev: 16 m | Metadata compiled: 28 JUL 2025 |

Station Equipment History (continued)

Station Detail Changes(Continued)

15/NOV/2008 OBJECT Document/H2_Vessel_PV790_08_2008
02/AUG/2011 OBJECT Document/H2_Vessel_PV790_08_2011
03/OCT/2013 OBJECT Document/HOGEN MAINTENANCE CHECKSHEET
08/OCT/2013 OBJECT Document/HOGEN MAINTENANCE CHECKSHEET
04/NOV/2013 OBJECT Document/HOGEN MAINTENANCE CHECKSHEET
03/JAN/2014 OBJECT Document/HOGEN MAINTENANCE CHECKSHEET
28/FEB/2014 OBJECT Document/HOGEN MAINTENANCE CHECKSHEET
25/MAY/2012 OBJECT Document/PV790_05_2012
24/FEB/2014 OBJECT Document/PV790_05_2014
25/MAY/2012 OBJECT Document/PV790_06_2012
24/FEB/2014 OBJECT Document/PV790_06_2014
25/MAY/2012 OBJECT Document/PV790_07_2012
24/FEB/2014 OBJECT Document/PV790_07_2014
28/MAY/2012 OBJECT Document/PV790_08_2012
24/FEB/2014 OBJECT Document/PV790_08_2014
15/FEB/2002 OBJECT Document/SKYLINE DATA
29/FEB/2008 OBJECT Document/SKYLINE DATA
13/FEB/2010 OBJECT Document/SKYLINE DATA
14/SEP/2019 OBJECT Document/SKYLINE DATA
26/NOV/2016 OBJECT Document/SKYLINE DATA
13/FEB/2010 OBJECT Document/SKYLINE DATA - ANEMOMETER
14/SEP/2019 OBJECT Document/SKYLINE DATA - ANEMOMETER
06/OCT/2004 OBJECT Document/maw_lyser_01rpt
06/OCT/2004 OBJECT Document/maw_lyser_02rpt
06/OCT/2004 OBJECT Document/maw_lyser_03rpt
01/JAN/1954 STATION - (nondb seeding) Opened
01/JAN/1954 STATION - (nondb seeding) bar_ht Changed to 16
01/JAN/1954 STATION - (nondb seeding) bar_ht_deriv Changed to MAP 1:250 000
01/JAN/1954 STATION - (nondb seeding) name Changed to MAWSON
01/JAN/1954 STATION - (nondb seeding) stn_ht Changed to 9.9
01/JAN/1954 STATION - (nondb seeding) stn_ht_deriv Changed to MAP 1:250 000
01/JAN/1954 STATION - (nondb seeding) wmo_num Changed to 89564
31/OCT/1997 STATION aviation_id Changed to MAWS
01/JAN/1954 STATION latitude Changed to -67.6017Seeded from NonDb. Taken at the screen using WGS84
01/JAN/1954 STATION latlon_deriv Changed to GPS
01/JAN/1954 STATION longitude Changed to 62.8753Seeded from NonDb. Taken at the screen using WGS84
08/JAN/2000 STATION lu_0_100m Changed to Coastal or Island
08/JAN/2000 STATION lu_100m_1km Changed to Coastal or Island
08/JAN/2000 STATION lu_1km_10km Changed to Non-vegetated (barren,desert)
08/JAN/2000 STATION soil_type Changed to rock
08/JAN/2000 STATION surface_type Changed to rock

System Changes

24/JUN/2002 SYSTEM External Clients Commenced

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Extended Climatological Station Metadata

All History

| | | | | |
|---------------------------|---------------------------|--------------------------|-----------------------------|---------------------------------------|
| Station: MAWSON | Location: MAWSON | | | State: ANT |
| Bureau No.: 300001 | WMO No.: 89564 | Aviation ID: MAWS | Opened: 01 Jan 1954 | Current Status: Still open |
| Latitude: -67.6017 | Longitude: 62.8753 | Elevation: 9.9 m | Barometer Elev: 16 m | Metadata compiled: 28 JUL 2025 |

Station Equipment History (continued)

System Changes(Continued)

23/FEB/1954 SYSTEM Infrastructure Commenced
 29/FEB/2008 SYSTEM Reference Standards Commenced
 01/JAN/2005 SYSTEM Satellite Ceased
 05/FEB/1995 SYSTEM Satellite Commenced
 02/MAY/2013 SYSTEM Space Observations Commenced
 23/FEB/1954 SYSTEM Surface Observations Commenced
 01/DEC/1990 SYSTEM Upper Air Commenced

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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.

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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

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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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