



Basic Climatological Station Metadata
Current status

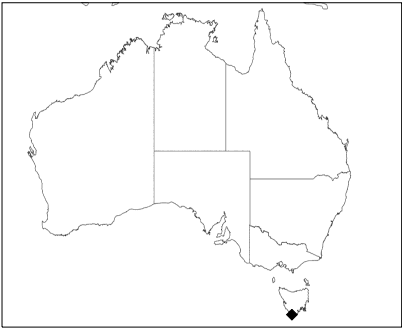
Metadata compiled: 28 JUL 2025

Station: MAATSUYKER ISLAND LIGHTHOUSE

Bureau of Meteorology station number: 094041
Bureau of Meteorology district name: Southeast
State: TAS

World Meteorological Organization number: 94962
Identification: YMSY

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



| Current Station Location | | | | |
|--|---------|------------------|--------------|-------------|
| Latitude | Decimal | -43.6578 | Hour Min Sec | 43°39'28"S |
| Longitude | Decimal | 146.2711 | Hour Min Sec | 146°16'16"E |
| Station Height | 146.5 m | Barometer Height | 147.6 m | |
| Method of station geographic positioning | | | SURVEY | |

Year opened: 1891
Status: Open

Station summary

No summary for this site has been written as yet.

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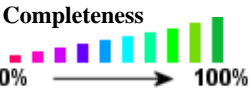


Basic Climatological Station Metadata
Current status

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| Bureau No.: 094041 | WMO No.: 94962 | Aviation ID: YMSY | Opened: 01 Oct 1891 | | Current Status: Still open |
| Latitude: -43.6578 | Longitude: 146.2711 | Elevation: 146.5 m | Barometer Elev: 147.6 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 |
|-------------------------|-------------|------------|---------------------------|--------------------|--------------------|
| MAXIMUM AIR TEMPERATURE | JAN 1957 | JUN 2025 | 99.2 | 182 | 0 |
| MAXIMUM WIND GUST SPEED | MAR 1963 | JUN 2025 | 41.6 | 356 | 425 |
| WIND RUN ABOVE 10 FEET | FEB 1999 | JUN 2025 | 97.6 | 221 | 0 |
| WIND RUN BELOW 10 FEET | APR 1974 | APR 1974 | 3.3 | 29 | 0 |
| RAINFALL | OCT 1891 | JUL 2025 | 93 | 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 | JAN 1957 | JUN 2025 | 98.3 | 6.4 | 69 | 0 |
| 1 8 5 0 | 1 9 0 0 | | 1 9 5 0 | | 2 0 0 0 | |
| DEW POINT | JAN 1957 | JUN 2025 | 95.5 | 6.3 | 174 | 19 |
| 1 8 5 0 | 1 9 0 0 | | 1 9 5 0 | | 2 0 0 0 | |
| MEAN SEA LEVEL PRESSURE | JAN 1957 | JUN 2025 | 98.1 | 6.4 | 109 | 0 |
| 1 8 5 0 | 1 9 0 0 | | 1 9 5 0 | | 2 0 0 0 | |
| SEA STATE | JAN 1960 | JUN 2025 | 97.4 | 3.7 | 180 | 0 |
| 1 8 5 0 | 1 9 0 0 | | 1 9 5 0 | | 2 0 0 0 | |
| TOTAL CLOUD AMOUNT | JAN 1957 | JUN 2025 | 97.6 | 3.7 | 182 | 0 |
| 1 8 5 0 | 1 9 0 0 | | 1 9 5 0 | | 2 0 0 0 | |
| WIND SPEED | JAN 1957 | JUN 2025 | 97.9 | 6.3 | 108 | 1 |
| 1 8 5 0 | 1 9 0 0 | | 1 9 5 0 | | 2 0 0 0 | |

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| Current Status: | | | | | | | Still open |
| Metadata compiled: | | | | | | | 28 JUL 2025 |

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 | DEC 2011 | JUL 2025 | 99.5 | 1432.6 | 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 | NOV 1997 | JUL 2025 | 106.4 | 51.1 | N/A | 16 |

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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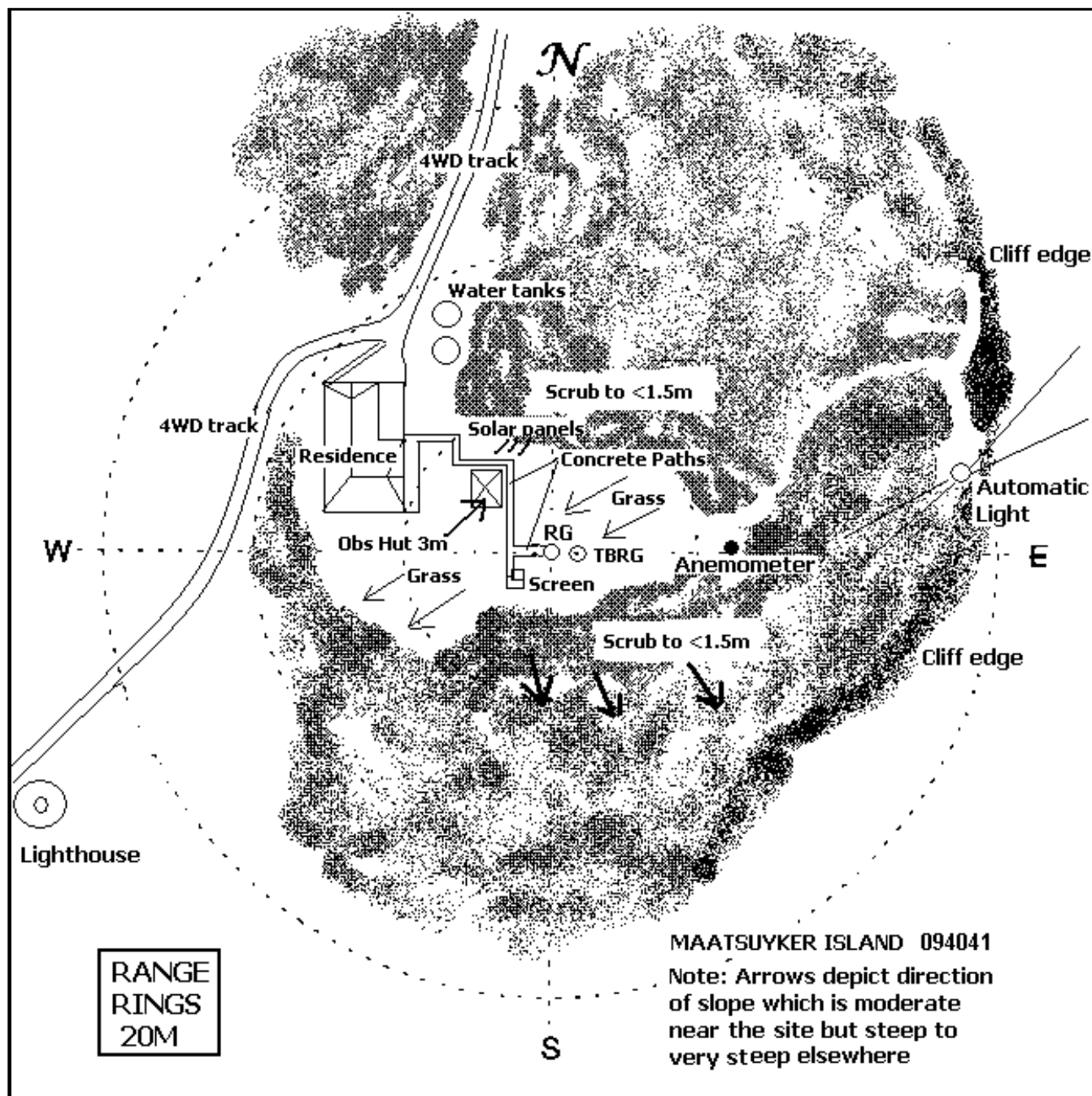
Extended Climatological Station Metadata

All History

| | | | | | |
|--------------------|------------------------------|-------------------|------------------------------|---------------------------|-------------|
| Station: | MAATSUYKER ISLAND LIGHTHOUSE | Location: | MAATSUYKER ISLAND LIGHTHOUSE | State: | TAS |
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| | | | | Metadata compiled: | 28 JUL 2025 |

Instrument Location and Surrounding Features

22/04/2013(most recent)



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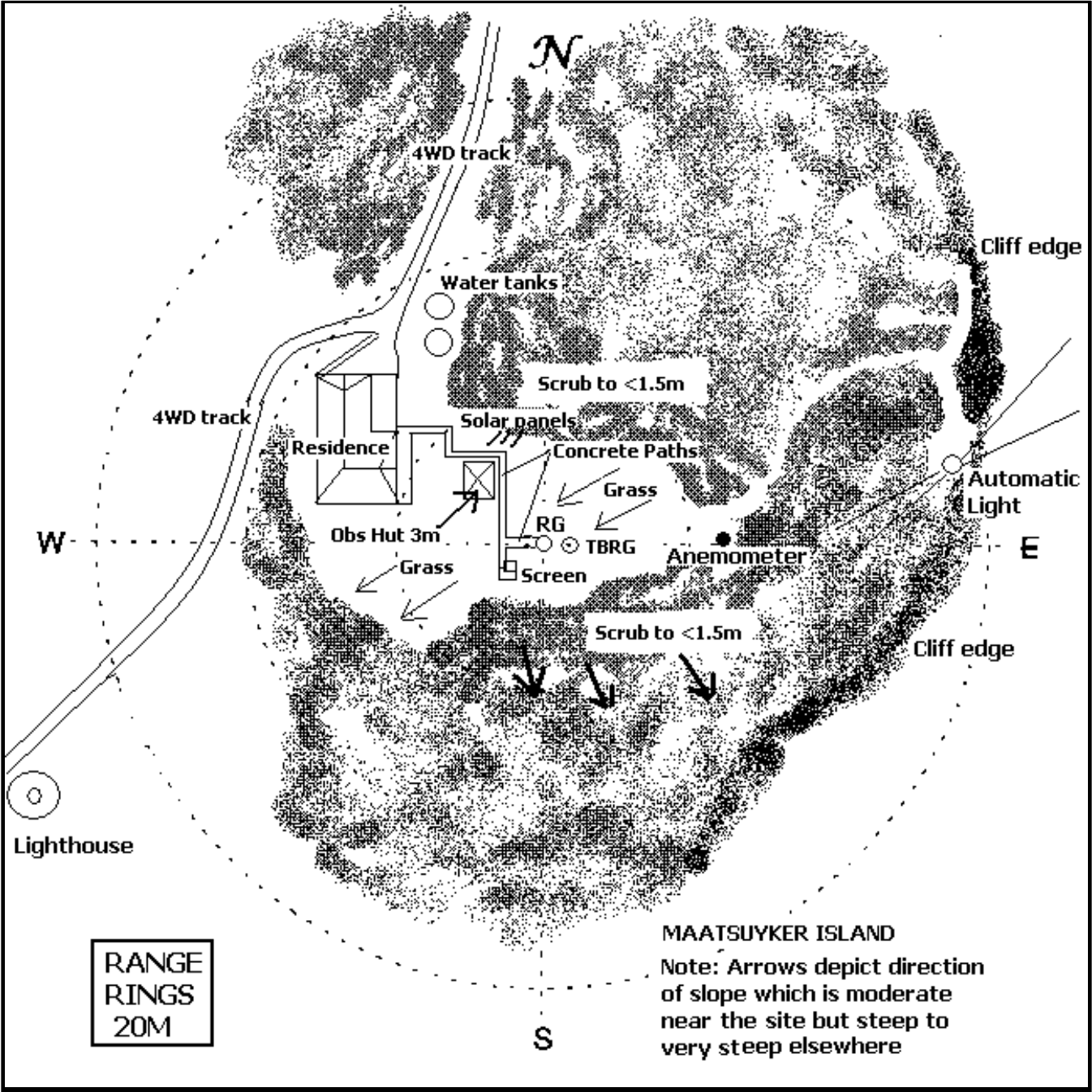
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Extended Climatological Station Metadata
All History

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|-------------|------------------------------|------------|-----------|------------------------------|---------|--------------------|-------------|
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Instrument Location and Surrounding Features
04/02/2011



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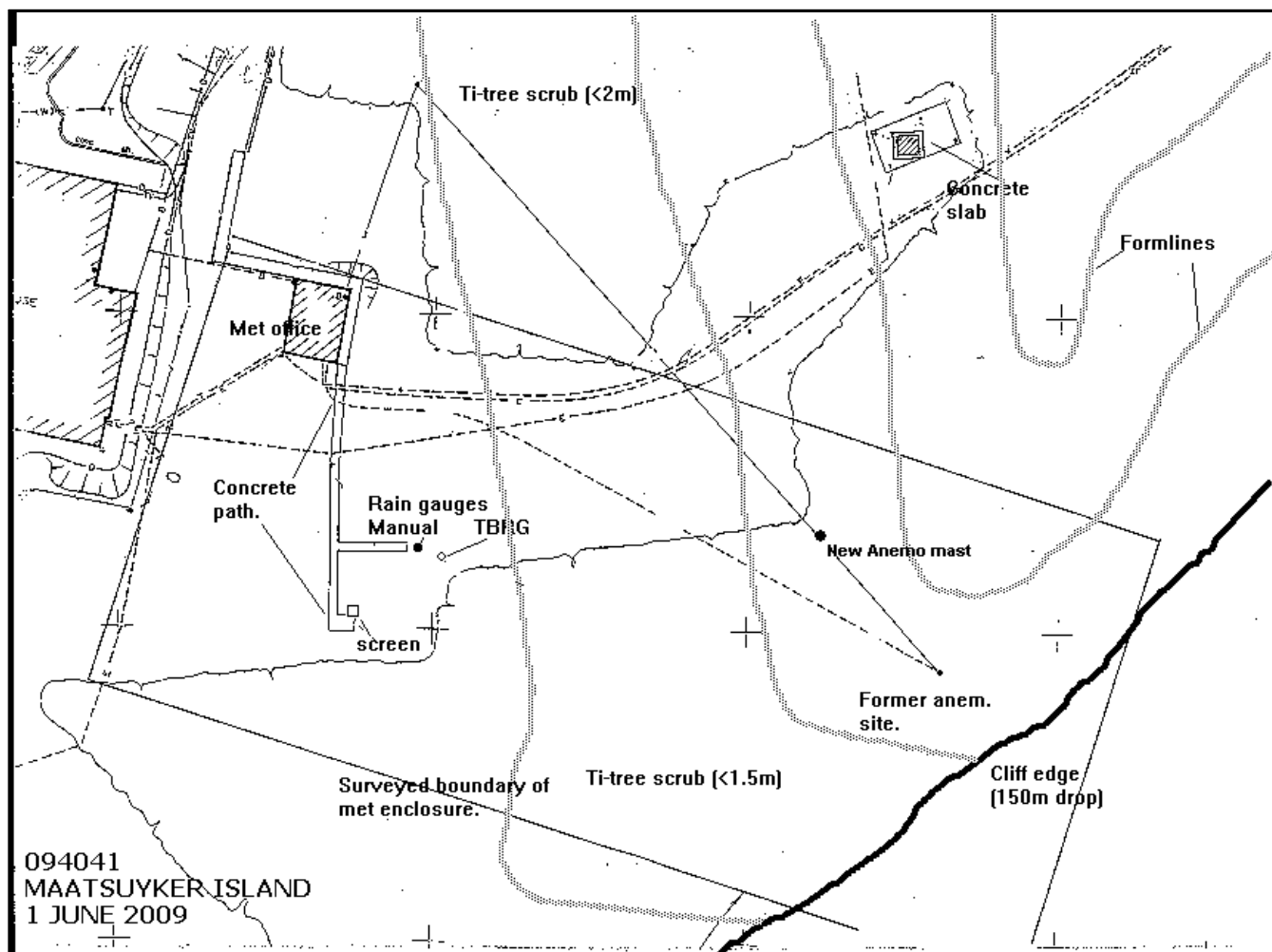
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

01/06/2009



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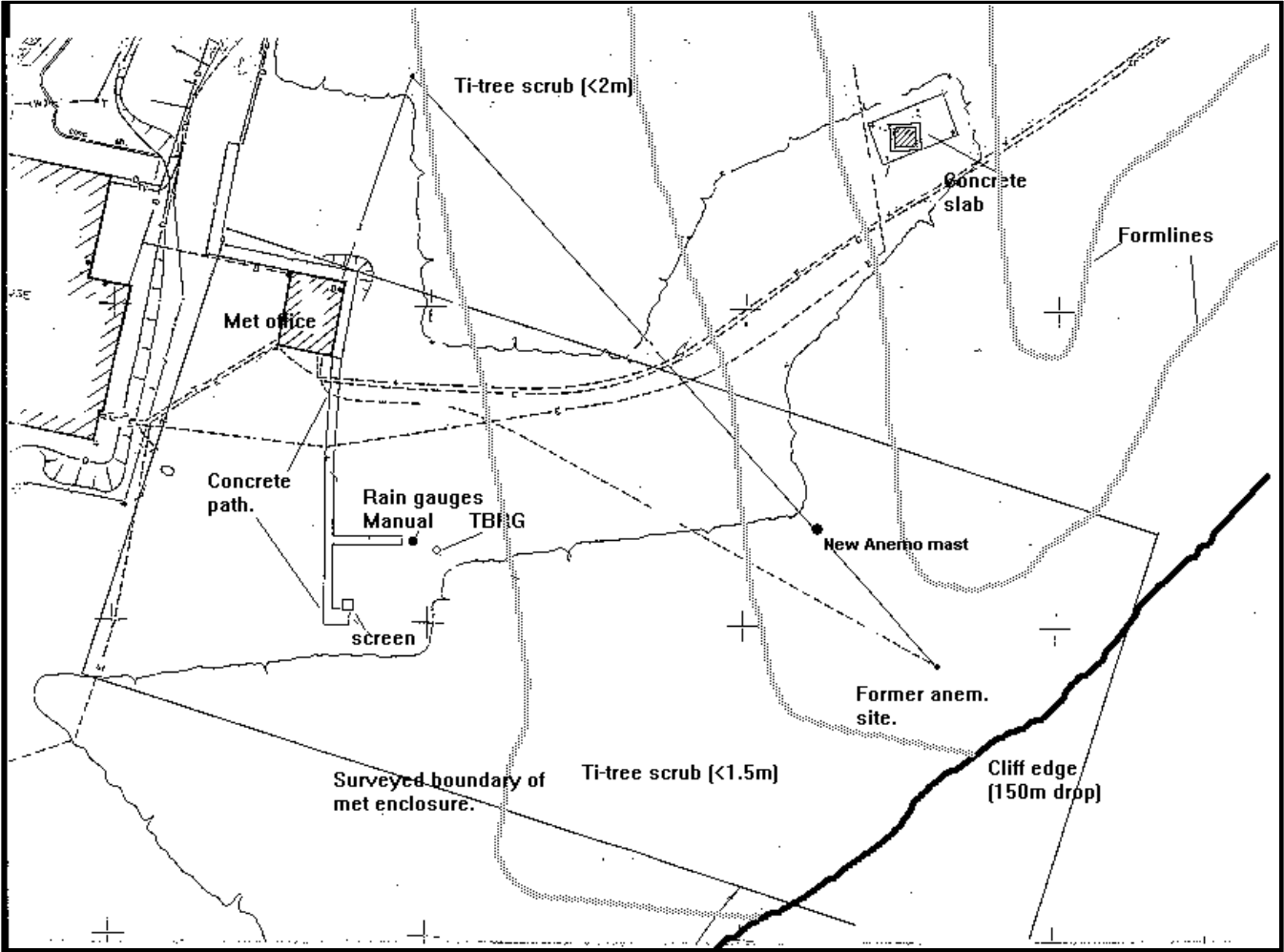
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Extended Climatological Station Metadata
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Instrument Location and Surrounding Features
29/09/2008



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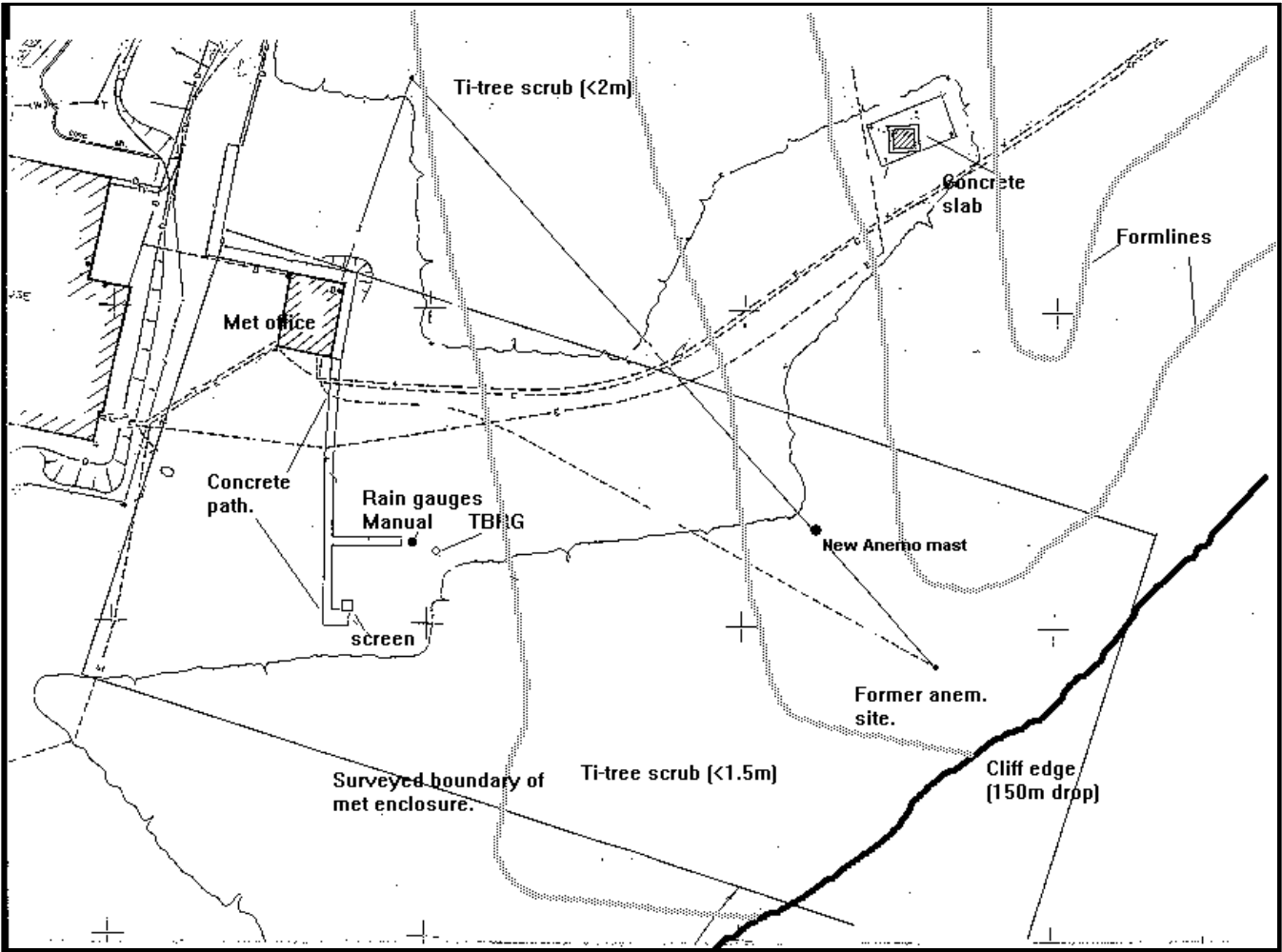
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Instrument Location and Surrounding Features
06/06/2005



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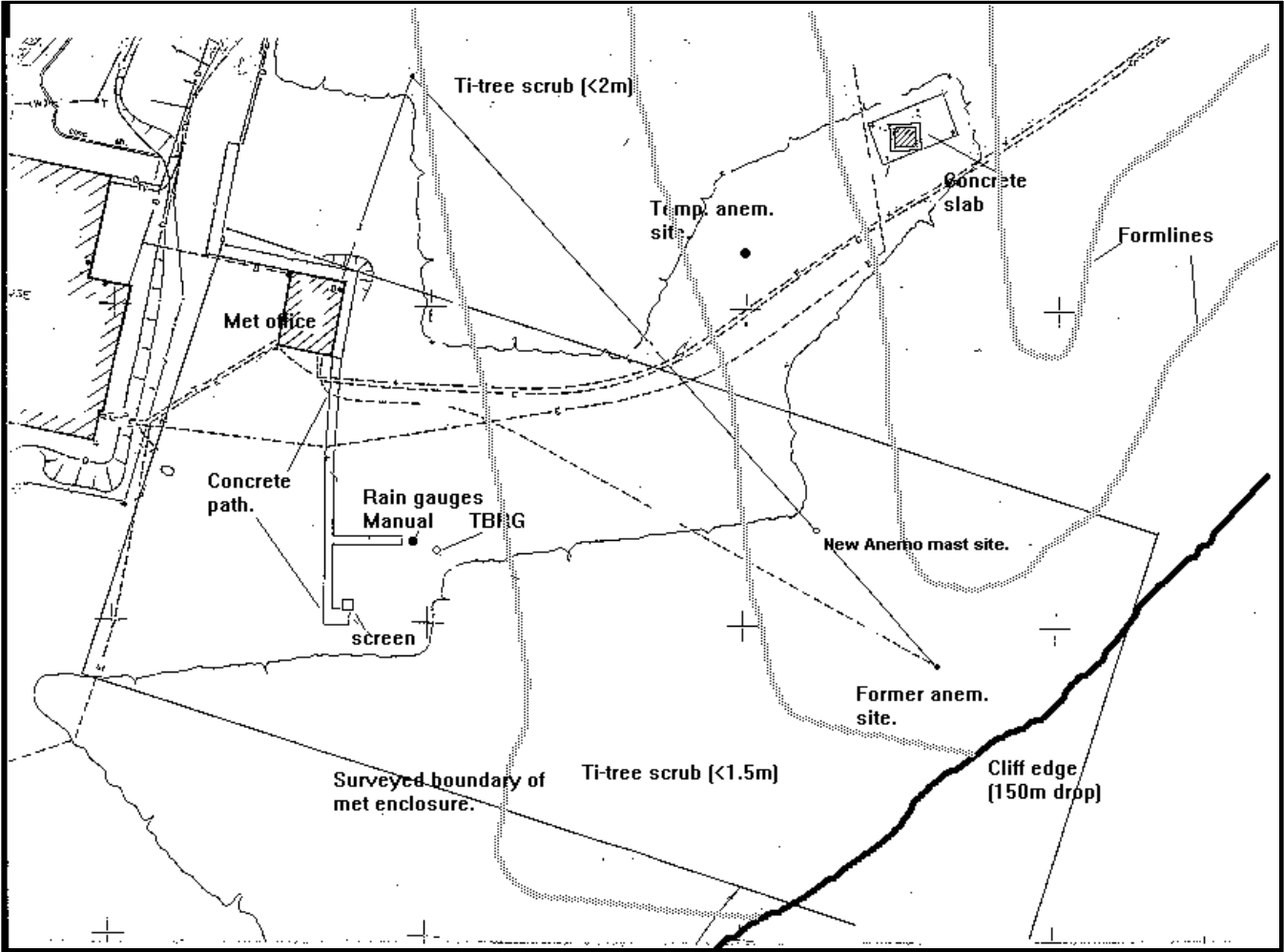
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Instrument Location and Surrounding Features
06/02/2001



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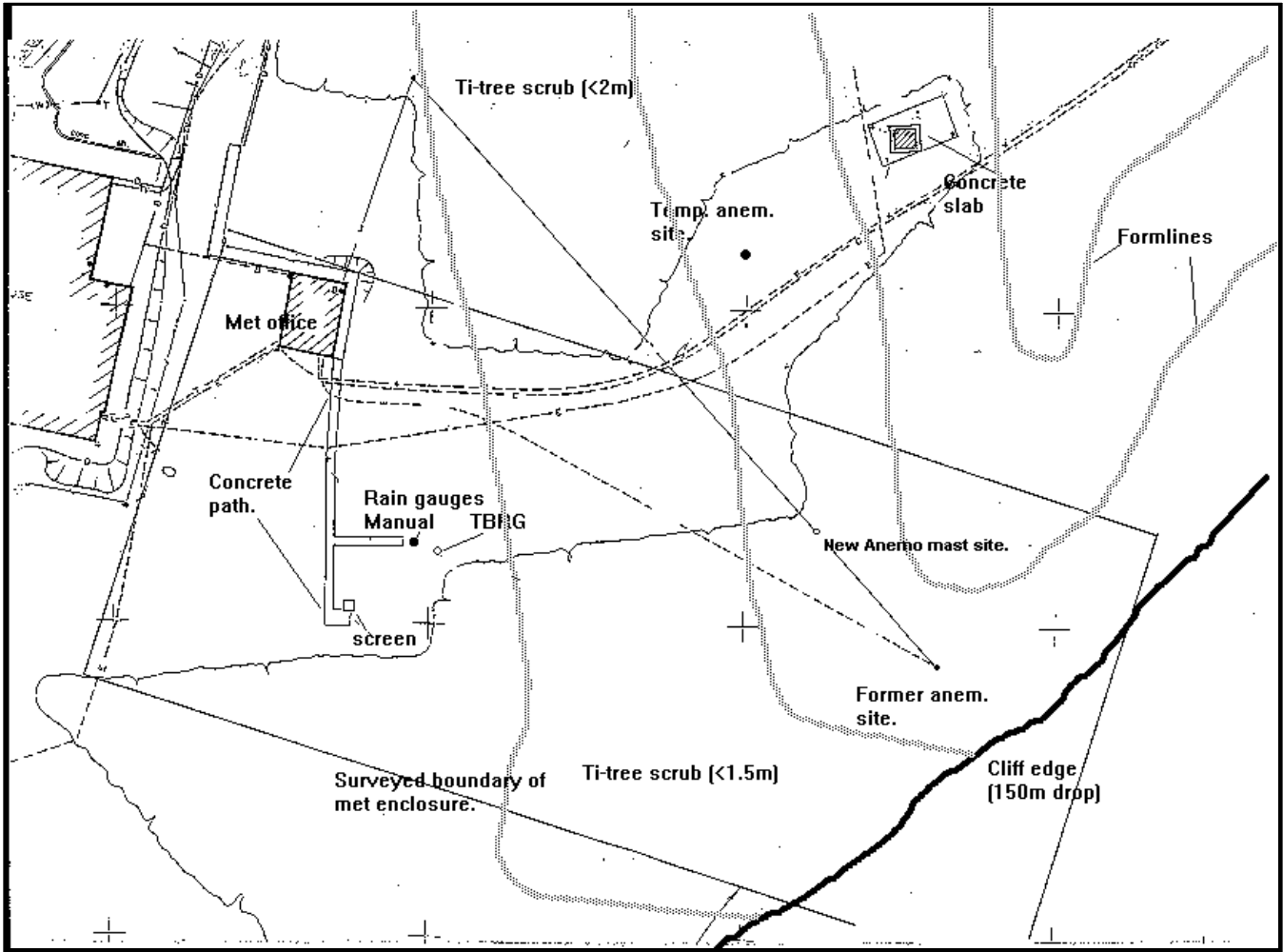
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Instrument Location and Surrounding Features
19/11/2000



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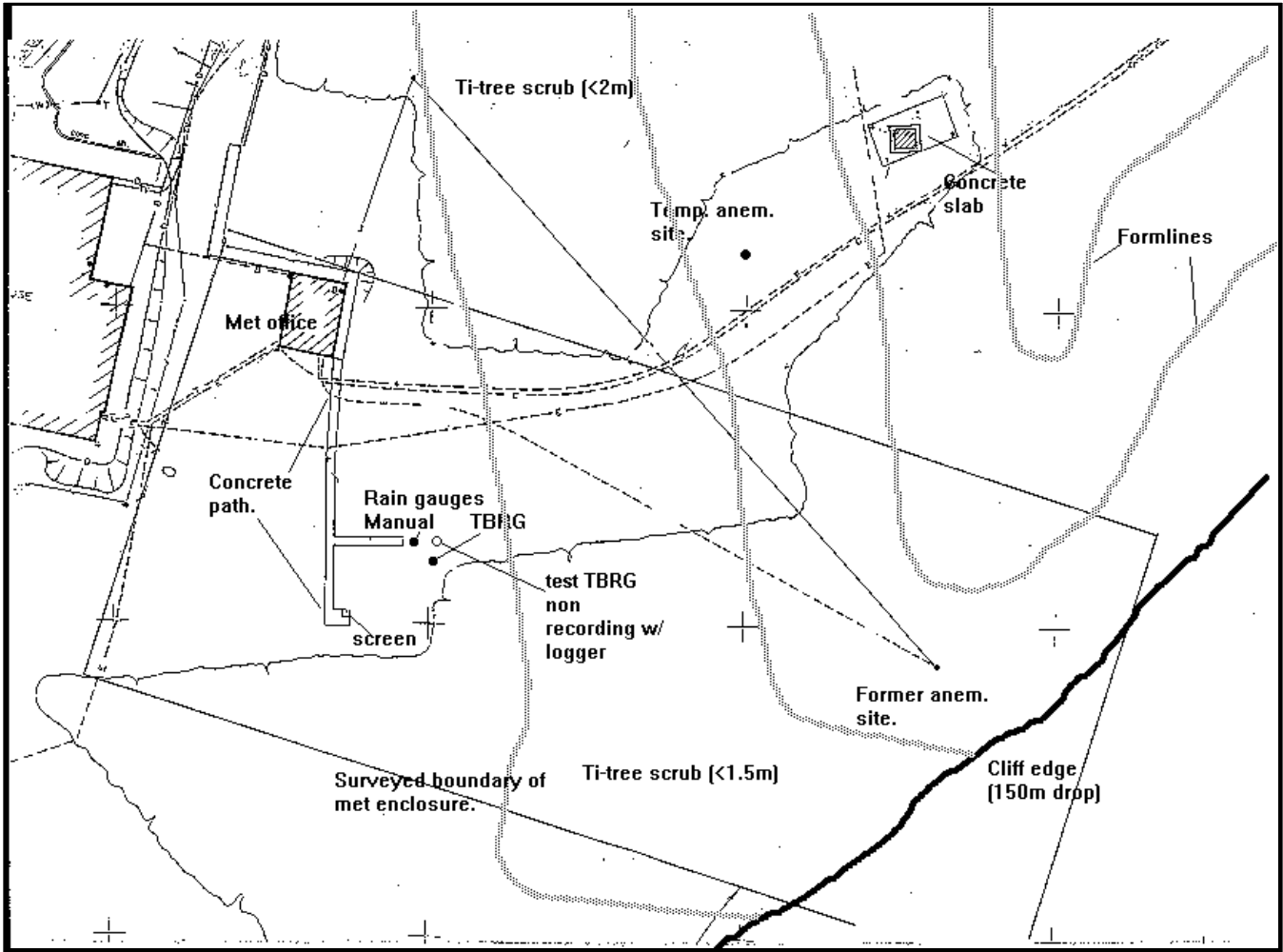
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Instrument Location and Surrounding Features
07/08/2000



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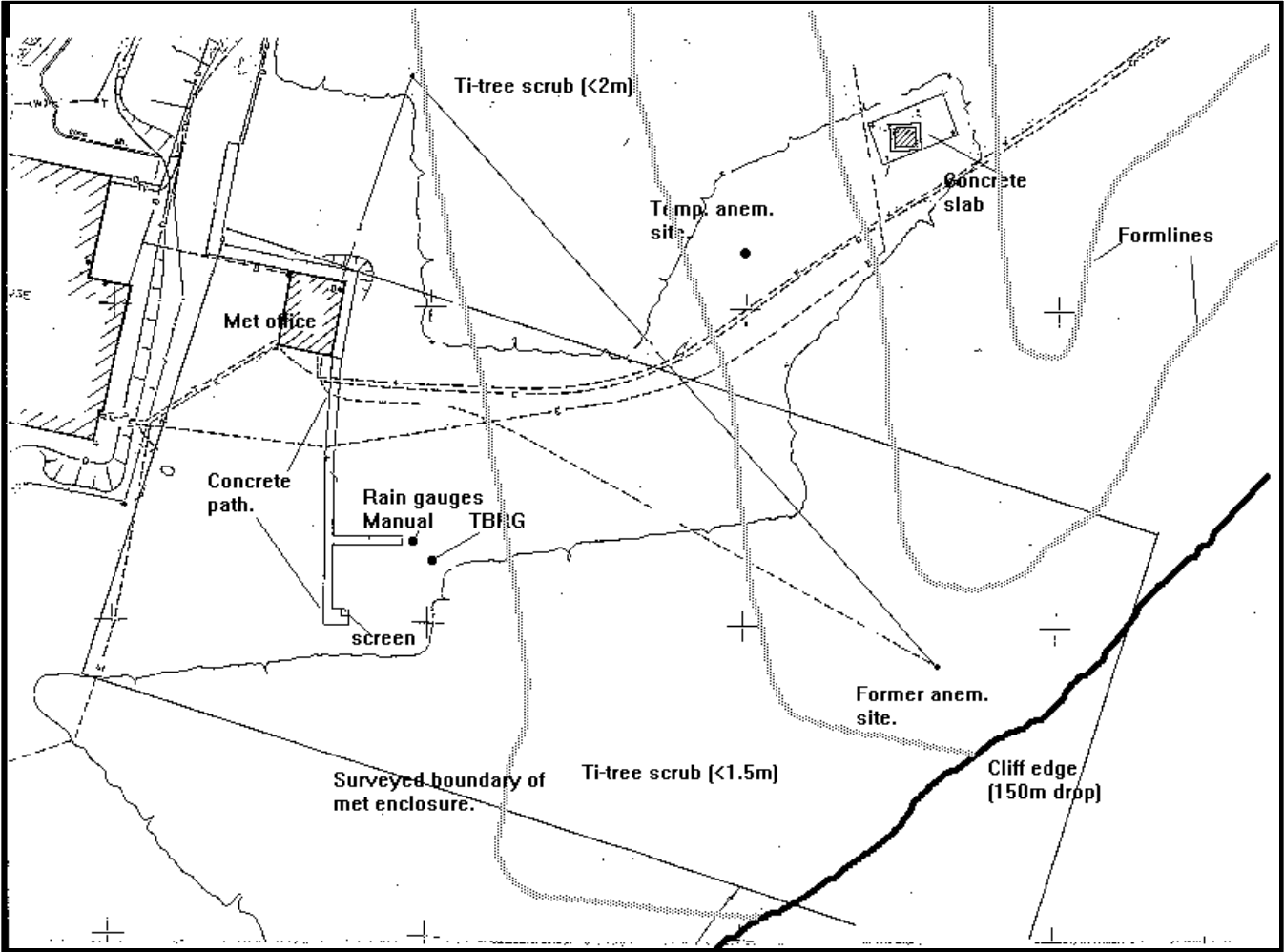
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Instrument Location and Surrounding Features
30/04/1997



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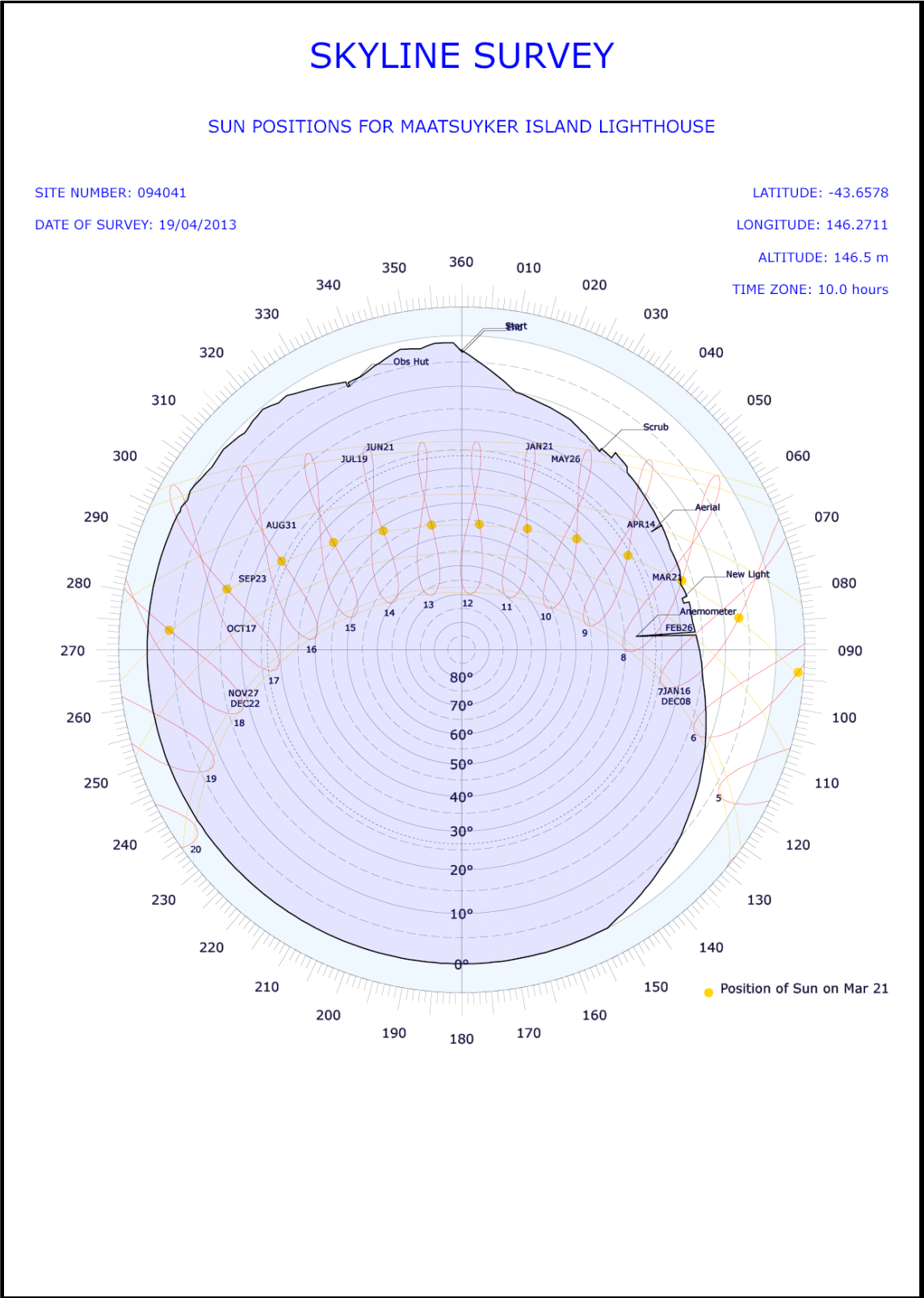
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Skyline Diagram
22/04/2013(most recent)



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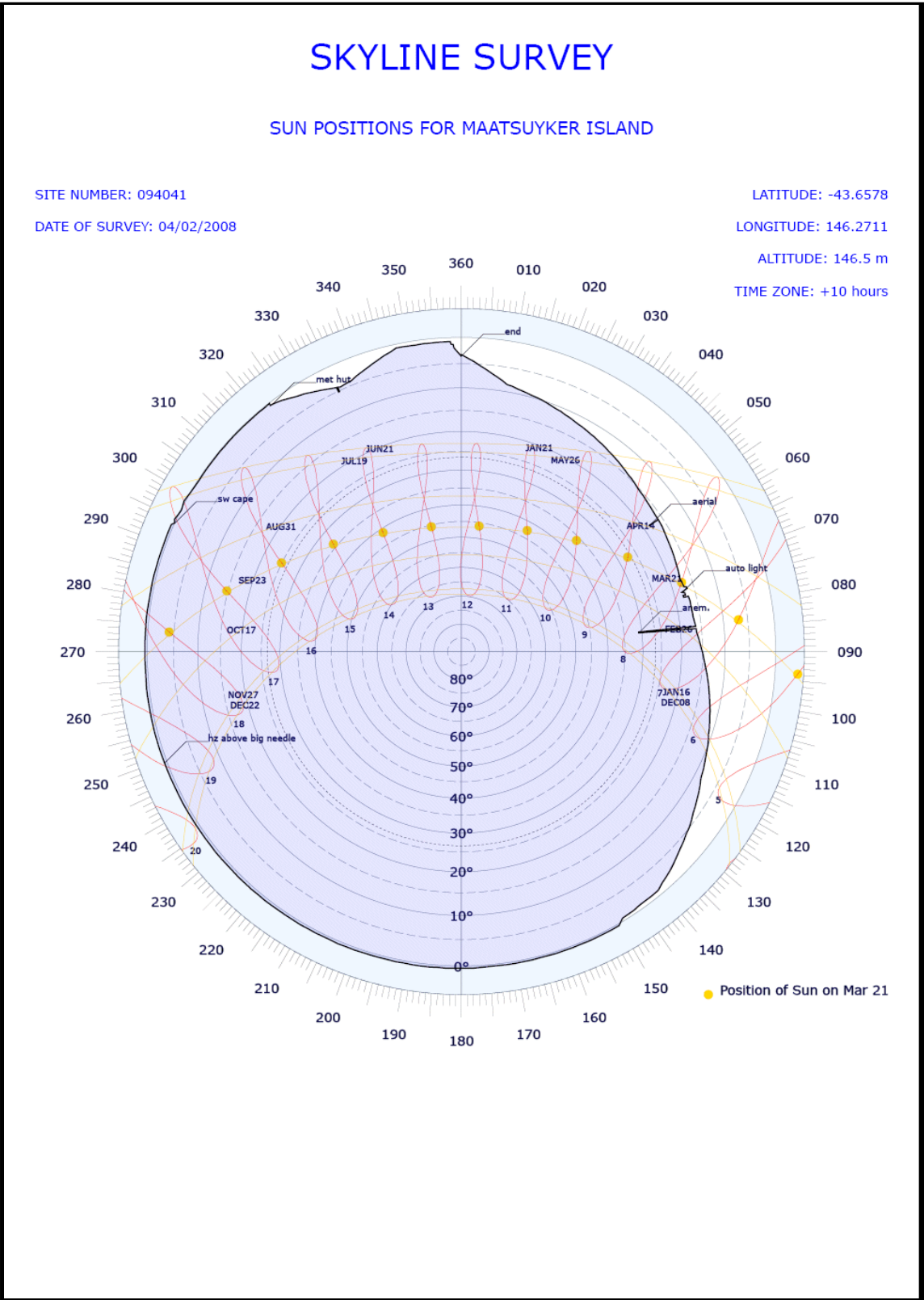
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Skyline Diagram
04/02/2008



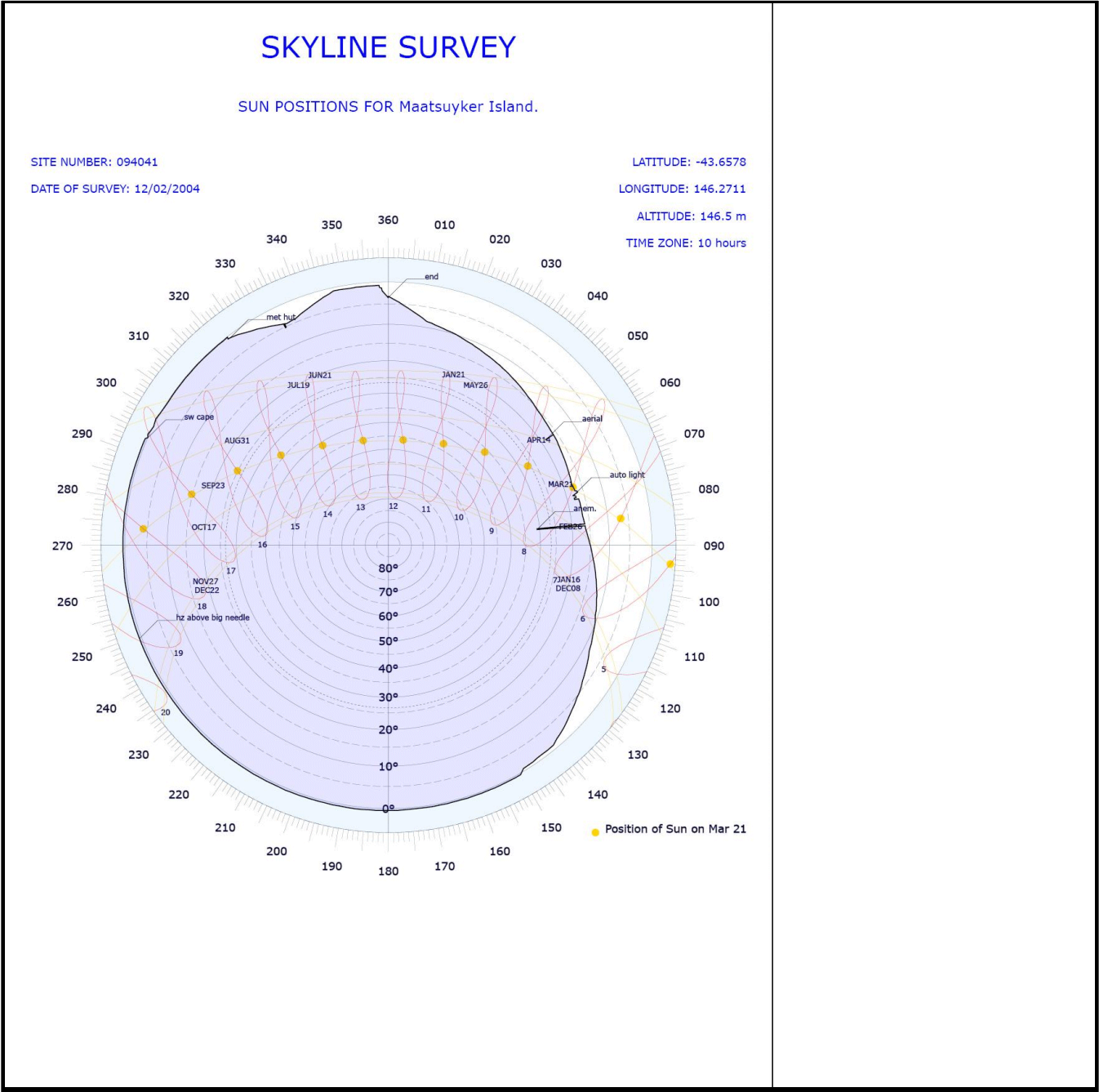
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Skyline Diagram
12/02/2004



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Station Observation Program Summary (Surface Observations) from 01/10/1891 to 09/03/2000

| 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 09/03/2000 to 01/12/2000

| 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 01/12/2000 to 02/02/2004

| 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 02/02/2004 to 08/02/2005

| 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: | MAATSUYKER ISLAND LIGHTHOUSE | | | Location: | MAATSUYKER ISLAND LIGHTHOUSE | | | State: | TAS |
| Bureau No.: | 094041 | WMO No.: | 94962 | Aviation ID: | YMSY | Opened: | 01 Oct 1891 | Current Status: | Still open |
| Latitude: | -43.6578 | Longitude: | 146.2711 | Elevation: | 146.5 m | Barometer Elev: | 147.6 m | Metadata compiled: | 28 JUL 2025 |

Station Observation Program Summary (Surface Observations) from 08/02/2005 to 18/08/2006

| 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 18/08/2006 to 28/08/2006

| 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 28/08/2006 to 23/11/2006

| 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 23/11/2006 to 22/05/2007

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

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Extended Climatological Station Metadata

All History

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|--------------------|------------------------------|-------------------|------------------|------------------------------|---------|---------------------------|-------------|
| Station: | MAATSUYKER ISLAND LIGHTHOUSE | | Location: | MAATSUYKER ISLAND LIGHTHOUSE | | State: | TAS |
| Bureau No.: | 094041 | WMO No.: | 94962 | Aviation ID: | YMSY | Opened: | 01 Oct 1891 |
| Latitude: | -43.6578 | Longitude: | 146.2711 | Elevation: | 146.5 m | Barometer Elev: | 147.6 m |
| | | | | | | Current Status: | Still open |
| | | | | | | Metadata compiled: | 28 JUL 2025 |

Station Observation Program Summary (Surface Observations) from 22/05/2007 to 04/06/2007

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

Station Observation Program Summary (Surface Observations) from 04/06/2007 to 30/10/2007

| 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 30/10/2007 to 05/11/2007

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

Station Observation Program Summary (Surface Observations) from 05/11/2007 to 16/12/2011

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

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Extended Climatological Station Metadata
All History

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|--|----------------------------|---|--------------------------------|---------------------------------------|-----------------------------------|
| Station: MAATSUYKER ISLAND LIGHTHOUSE | | Location: MAATSUYKER ISLAND LIGHTHOUSE | | State: TAS | |
| Bureau No.: 094041 | WMO No.: 94962 | Aviation ID: YMSY | Opened: 01 Oct 1891 | | Current Status: Still open |
| Latitude: -43.6578 | Longitude: 146.2711 | Elevation: 146.5 m | Barometer Elev: 147.6 m | Metadata compiled: 28 JUL 2025 | |

Station Observation Program Summary (Surface Observations) from 16/12/2011 to 01/08/2015

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

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Extended Climatological Station Metadata

All History

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| Station: | MAATSUYKER ISLAND LIGHTHOUSE | | Location: | MAATSUYKER ISLAND LIGHTHOUSE | | State: | TAS |
| Bureau No.: | 094041 | WMO No.: | 94962 | Aviation ID: | YMSY | Opened: | 01 Oct 1891 |
| Latitude: | -43.6578 | Longitude: | 146.2711 | Elevation: | 146.5 m | Current Status: | Still open |
| | | | | | | Barometer Elev: | 147.6 m |
| | | | | | | | Metadata compiled: 28 JUL 2025 |

Station Equipment History

Equipment Install/Remove

Cloud Height (No Electronic History)

Humidity

02/MAY/2018 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 2292023) Surface Observations
02/JUL/1998 INSTALL Humidity Probe (Type Rotronics S/N - 5968008) Surface Observations
21/FEB/2000 REMOVE Humidity Probe (Type Rotronics S/N - 5968008) Surface Observations
30/APR/2021 REPLACE Humidity Probe (Now Vaisala HMP155A S/N - S1730182) Surface Observations
26/SEP/2018 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - V0720017) Surface Observations
04/APR/2019 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - V0720035) Surface Observations

Pressure Trend

01/OCT/1948 INSTALL Barograph (Type Unknown S/N - Unknown) Surface Observations
20/MAR/1986 REPLACE Barograph (Now Marine S/N - 420) Surface Observations
28/APR/1988 REPLACE Barograph (Now Marine S/N - CBM450) Surface Observations

Lightning (No Electronic History)

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

16/NOV/2000 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 74099) Surface Observations
01/FEB/1996 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - WS70908/WD70932) Surface Observations
01/JAN/1970 INSTALL Anemometer (Type Ventimeter S/N - Unknown) Surface Observations
16/NOV/2000 INSTALL Mast Anemometer (Type Pivot, SS 10m S/N - NONE) Infrastructure
29/FEB/1996 REMOVE Anemometer (Type Synchrotac - dial S/N - 70/363) Surface Observations
01/JAN/1982 REPLACE Anemometer (Now Deuta hand held S/N - Unknown) Surface Observations
29/JUN/1988 REPLACE Anemometer (Now Synchrotac - dial & max gust recorder S/N - 70/363-MGR# 04) Surface Observations
05/AUG/1987 REPLACE Anemometer (Now Synchrotac - dial S/N - 70/363) Surface Observations
17/APR/1989 REPLACE Anemometer (Now Synchrotac - dial S/N - 70/363) Surface Observations
04/OCT/2005 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 74493) Surface Observations
06/DEC/2007 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 74493) Surface Observations
08/OCT/2003 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 75047) Surface Observations
05/OCT/2005 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 75047) Surface Observations
02/MAY/2018 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 89478) Surface Observations
16/NOV/2000 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 0210) Surface Observations
08/OCT/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 75077) Surface Observations
02/MAY/2018 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 86702) Surface Observations
07/APR/1998 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - D75071,S75032) Surface Observations

Wet Bulb Temperature

01/FEB/1996 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 0080) Surface Observations
21/FEB/2000 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations
02/JUL/1998 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 0080) Surface Observations
02/MAY/2018 REMOVE Temperature Probe - Wet Bulb (Type Temp Control TCBMP01 S/N - 10199) Surface Observations
16/NOV/2000 REPLACE Temperature Probe - Wet Bulb (Now Rosemount S/N - 0499) Surface Observations
07/DEC/2005 REPLACE Temperature Probe - Wet Bulb (Now Rosemount S/N - 746) Surface Observations
09/NOV/2017 REPLACE Temperature Probe - Wet Bulb (Now Rosemount ST2401 S/N - 740) Surface Observations
13/DEC/2017 REPLACE Temperature Probe - Wet Bulb (Now Temp Control TCBMP01 S/N - 10199) Surface Observations

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Extended Climatological Station Metadata
All History

| | | | | | | | |
|--------------------|------------------------------|-------------------|------------------|------------------------------|---------|------------------------|---------------------------------------|
| Station: | MAATSUYKER ISLAND LIGHTHOUSE | | Location: | MAATSUYKER ISLAND LIGHTHOUSE | | State: | TAS |
| Bureau No.: | 094041 | WMO No.: | 94962 | Aviation ID: | YMSY | Opened: | 01 Oct 1891 |
| Latitude: | -43.6578 | Longitude: | 146.2711 | Elevation: | 146.5 m | Current Status: | Still open |
| | | | | | | Barometer Elev: | 147.6 m |
| | | | | | | | Metadata compiled: 28 JUL 2025 |

Station Equipment History (continued)

Equipment Install/Remove(Continued)

20/SEP/2019 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - CBM5738) Surface Observations
01/OCT/1935 INSTALL Thermometer, Mercury, Wet Bulb (Type Unknown S/N - Unknown) Surface Observations
17/JAN/2020 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 12895) Surface Observations
01/JUN/2009 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 12895) Surface Observations
07/AUG/2000 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 16711) Surface Observations
31/JAN/2001 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 18783) Surface Observations
07/APR/1998 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 6201) Surface Observations
04/JAN/2001 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M0670) Surface Observations
02/OCT/2007 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M6201) Surface Observations

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

02/JAN/2020 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - M0595) Surface Observations
01/OCT/1935 INSTALL Thermometer, Mercury, Max (Type Unknown S/N - Unknown) Surface Observations
03/MAY/2019 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - 17393) Surface Observations
30/APR/1997 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 12848) Surface Observations
13/NOV/1998 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 12978) Surface Observations
02/OCT/2007 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 17380) Surface Observations
25/SEP/2000 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 17380) Surface Observations
08/NOV/2013 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 17393) Surface Observations
03/FEB/2003 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 17457) Surface Observations
09/NOV/1999 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M6452) Surface Observations
01/MAY/1986 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - Unknown) Surface Observations
25/JUN/1987 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - Unknown) Surface Observations

Soil Temperature 10cm (No Electronic History)

Soil Temperature 20cm (No Electronic History)

Soil Temperature 50cm (No Electronic History)

Snow Height (No Electronic History)

Soil Temperature 100cm (No Electronic History)

Sunshine Hours (No Electronic History)

Wind Run (No Electronic History)

Minimum Temperature

07/AUG/2001 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - 13348) Surface Observations
01/OCT/1935 INSTALL Thermometer, Alcohol, Min (Type Unknown S/N - Unknown) Surface Observations
08/MAY/2002 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - 13348) Surface Observations
15/SEP/1999 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 13348) Surface Observations
30/APR/1997 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 13348) Surface Observations
20/SEP/2019 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 14449) Surface Observations
02/MAY/1998 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 14477) Surface Observations
07/AUG/2001 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 19675) Surface Observations
05/MAR/1993 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - Unknown) Surface Observations
01/MAY/1986 REPLACE Thermometer, Alcohol, Min (Now Unknown S/N - Unknown) Surface Observations

Terrestrial Minimum Temperature (No Electronic History)

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Extended Climatological Station Metadata

All History

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|---------------------------|------------------------------|-------------------|------------------|------------------------------|---------|------------------------|-------------|
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| Bureau No.: | 094041 | WMO No.: | 94962 | Aviation ID: | YMSY | Opened: | 01 Oct 1891 |
| Latitude: | -43.6578 | Longitude: | 146.2711 | Elevation: | 146.5 m | Barometer Elev: | 147.6 m |
| Current Status: | | | | | | | Still open |
| Metadata compiled: | | | | | | | 28 JUL 2025 |

Station Equipment History (continued)

Equipment Install/Remove(Continued)

Visibility (No Electronic History)

Soil Temperature 5cm (No Electronic History)

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

01/FEB/1945 INSTALL Barometer (Type Kew pattern mercury S/N - Unknown) Surface Observations

01/FEB/1996 INSTALL Barometer (Type Vaisala PA11A S/N - P3720025) Surface Observations

29/FEB/1996 REMOVE Barometer (Type Negretti and Zambra Mk I S/N - CBM103) Surface Observations

12/APR/1989 REPLACE Barometer (Now Negretti and Zambra Mk I S/N - CBM052) Surface Observations

01/JAN/1992 REPLACE Barometer (Now Negretti and Zambra Mk I S/N - CBM103) Surface Observations

21/OCT/1991 REPLACE Barometer (Now Negretti and Zambra Mk I S/N - CBM170) Surface Observations

20/MAR/1986 REPLACE Barometer (Now Negretti and Zambra Mk II S/N - CBM114) Surface Observations

01/JAN/1967 REPLACE Barometer (Now Negretti and Zambra Mk II S/N - Unknown) Surface Observations

16/DEC/2011 REPLACE Barometer (Now Vaisala PTB220B S/N - D1610046) Surface Observations

Evaporation (No Electronic History)

Rainfall

01/OCT/1891 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations

01/FEB/1996 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - 414) Surface Observations

01/MAY/1986 REPLACE Raingauge (Now 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations

11/NOV/2002 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 0065) Surface Observations

28/MAY/2015 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 66213) Surface Observations

27/JUN/2012 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 99619) Surface Observations

16/NOV/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 75521) Surface Observations

01/MAY/2000 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 23069) Surface Observations

11/NOV/1999 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 414) Surface Observations

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

16/NOV/2000 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 74099) Surface Observations

01/FEB/1996 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - WS70908/WD70932) Surface Observations

01/JAN/1970 INSTALL Anemometer (Type Ventimeter S/N - Unknown) Surface Observations

16/NOV/2000 INSTALL Mast Anemometer (Type Pivot, SS 10m S/N - NONE) Infrastructure

29/FEB/1996 REMOVE Anemometer (Type Synchrotac - dial S/N - 70/363) Surface Observations

01/JAN/1982 REPLACE Anemometer (Now Deuta hand held S/N - Unknown) Surface Observations

29/JUN/1988 REPLACE Anemometer (Now Synchrotac - dial & max gust recorder S/N - 70/363-MGR# 04) Surface Observations

05/AUG/1987 REPLACE Anemometer (Now Synchrotac - dial S/N - 70/363) Surface Observations

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| | | | | | | Current Status: | Still open |
| | | | | | | Metadata compiled: | 28 JUL 2025 |

Station Equipment History (continued)

Equipment Install/Remove(Continued)

17/APR/1989 REPLACE Anemometer (Now Synchrotac - dial S/N - 70/363) Surface Observations
04/OCT/2005 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 74493) Surface Observations
06/DEC/2007 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 74493) Surface Observations
08/OCT/2003 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 75047) Surface Observations
05/OCT/2005 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 75047) Surface Observations
02/MAY/2018 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 89478) Surface Observations
16/NOV/2000 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 0210) Surface Observations
08/OCT/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 75077) Surface Observations
02/MAY/2018 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 86702) Surface Observations
07/APR/1998 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - D75071,S75032) Surface Observations

Air Temperature

02/MAY/2018 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 2292023) Surface Observations
02/JUL/1998 INSTALL Humidity Probe (Type Rotronics S/N - 5968008) Surface Observations
21/FEB/2000 REMOVE Humidity Probe (Type Rotronics S/N - 5968008) Surface Observations
30/APR/2021 REPLACE Humidity Probe (Now Vaisala HMP155A S/N - S1730182) Surface Observations
26/SEP/2018 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - V0720017) Surface Observations
04/APR/2019 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - V0720035) Surface Observations
01/FEB/1996 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 0098) Surface Observations
12/NOV/1998 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - 0083) Surface Observations
16/NOV/2000 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - 0500) Surface Observations
07/DEC/2005 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - 740) Surface Observations
09/NOV/2017 REPLACE Temperature Probe - Dry Bulb (Now Rosemount ST2401 S/N - 746) Surface Observations
02/JAN/2020 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 18783) Surface Observations
01/OCT/1935 INSTALL Thermometer, Mercury, Dry Bulb (Type Unknown S/N - Unknown) Surface Observations
01/JAN/2020 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 16843) Surface Observations
21/FEB/2000 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 16843) Surface Observations
09/FEB/2005 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 16843) Surface Observations
07/APR/1998 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 5791) Surface Observations
05/MAR/1993 REPLACE Thermometer, Mercury, Dry Bulb (Now 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 multi-stage quality control process.

| Available Date Range | Element | Fail Field Performance Check |
|---------------------------|----------------------|------------------------------|
| 02/JUL/1998 - 30/APR/2021 | Humidity | 4 |
| 15/SEP/1999 - 07/APR/2014 | Pressure Trend | 0 |
| 30/APR/1997 - 30/APR/2021 | Wind Direction | 9 |
| 30/APR/1997 - 26/SEP/2018 | Wet Bulb Temperature | 3 |
| 21/FEB/2000 - 26/SEP/2018 | Maximum Temperature | 0 |
| 21/FEB/2000 - 26/SEP/2018 | Minimum Temperature | 0 |

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Extended Climatological Station Metadata
All History

| | | | | | | | |
|--------------------|------------------------------|-------------------|------------------|------------------------------|---------|------------------------|---------------------------------------|
| Station: | MAATSUYKER ISLAND LIGHTHOUSE | | Location: | MAATSUYKER ISLAND LIGHTHOUSE | | State: | TAS |
| Bureau No.: | 094041 | WMO No.: | 94962 | Aviation ID: | YMSY | Opened: | 01 Oct 1891 |
| Latitude: | -43.6578 | Longitude: | 146.2711 | Elevation: | 146.5 m | Current Status: | Still open |
| | | | | | | Barometer Elev: | 147.6 m |
| | | | | | | | Metadata compiled: 28 JUL 2025 |

Station Equipment History (continued)

| Available Date Range | Element | Fail Field Performance Check |
|---------------------------|-----------------|------------------------------|
| 01/MAY/1986 - 30/APR/2021 | Pressure | 1 |
| 30/APR/1997 - 30/APR/2021 | Rainfall | 8 |
| 30/APR/1997 - 30/APR/2021 | Wind Speed | 9 |
| 30/APR/1997 - 30/APR/2021 | Air Temperature | 4 |

Station Detail Changes

01/FEB/2021 CLASSIFICATION AWS Priority 3 - Standard (SLP3-AWS)
10/JAN/2011 CLASSIFICATION Critical (ASOSCRIT)
01/FEB/1996 CLASSIFICATION Incentive Payment AWS (FIP)
28/MAY/2021 CLASSIFICATION Mastered in EAMS (EAMS)
21/MAR/2016 CLASSIFICATION NOT Processed by ASOS (NPBA)
01/JUL/2017 CLASSIFICATION Observing Operations Hub - Hobart (OOH-H)
01/JUL/2015 OBJECT Document/Paul Richardson 01JUL15-15SEP15
01/JUL/2015 OBJECT Document/Paul Richardson contract 01JUL15-15SEP15
04/FEB/2008 OBJECT Document/SKYLINE DATA
22/APR/2013 OBJECT Document/SKYLINE DATA
12/FEB/2004 OBJECT Document/SKYLINE DATA
03/OCT/2005 OBJECT Document/metconsole_dtseconfig_051003
22/MAR/2006 OBJECT Document/metconsole_dtseconfig_060322
01/JUN/2009 OBJECT Document/metconsole_dtseconfig_090601
16/DEC/2011 OBJECT Document/metconsole_dtseconfig_111216
03/OCT/2005 OBJECT Document/metconsole_stationconfig_051003
22/MAR/2006 OBJECT Document/metconsole_stationconfig_060322
01/JUN/2009 OBJECT Document/metconsole_stationconfig_090601
01/OCT/1891 STATION - (nondb seeding) Opened
01/OCT/1891 STATION - (nondb seeding) name Changed to MAATSUYKER ISLAND LIGHTHOUSE
01/OCT/1891 STATION - (nondb seeding) wmo_num Changed to 94962
01/OCT/1891 STATION aviation_id Changed to YMSY
01/OCT/1891 STATION bar_ht Changed to 118.3
17/JUN/1987 STATION bar_ht Changed to 147.6
17/JUN/1987 STATION bar_ht_deriv Changed to SURVEY
01/OCT/1891 STATION bar_ht_deriv Changed to Unknown
17/JUN/1987 STATION latitude Changed to -43.6578Survey report: 16 July 1987 C.M.Rowe Acting Surveyor General to ROM T. Jaques par 2.Centre new Met Office.
01/OCT/1891 STATION latitude Changed to -43.6586Seeded from NonDb
01/OCT/1891 STATION latlon_deriv Changed to SURVEY
17/JUN/1987 STATION latlon_deriv Changed to SURVEY
17/JUN/1987 STATION latlon_error Changed to
17/JUN/1987 STATION longitude Changed to 146.2711Survey report: 16 July 1987 C.M.Rowe Acting Surveyor General to ROM T. Jaques par 2.Centre new Met Office.
01/OCT/1891 STATION longitude Changed to 146.27Seeded from NonDb
30/APR/1997 STATION lu_0_100m Changed to Coastal or Island
30/APR/1997 STATION lu_100m_1km Changed to Coastal or Island

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Extended Climatological Station Metadata
All History

| | | | | | | | |
|---------------------------|------------------------------|-------------------|------------------|------------------------------|---------|------------------------|-------------|
| Station: | MAATSUYKER ISLAND LIGHTHOUSE | | Location: | MAATSUYKER ISLAND LIGHTHOUSE | | State: | TAS |
| Bureau No.: | 094041 | WMO No.: | 94962 | Aviation ID: | YMSY | Opened: | 01 Oct 1891 |
| Latitude: | -43.6578 | Longitude: | 146.2711 | Elevation: | 146.5 m | Barometer Elev: | 147.6 m |
| Current Status: | | | | | | | Still open |
| Metadata compiled: | | | | | | | 28 JUL 2025 |

Station Equipment History (continued)

Station Detail Changes(Continued)

30/APR/1997 STATION lu_1km_10km Changed to Coastal or Island
30/APR/1997 STATION soil_type Changed to clay
01/OCT/1891 STATION stn_ht Changed to 118.3
17/JUN/1987 STATION stn_ht Changed to 146.5
17/JUN/1987 STATION stn_ht_deriv Changed to SURVEY
01/OCT/1891 STATION stn_ht_deriv Changed to Unknown
30/APR/1997 STATION surface_type Changed to mostly covered by grass

System Changes

16/NOV/2000 SYSTEM Infrastructure Commenced
17/JUN/1987 SYSTEM Infrastructure Commenced
01/OCT/1891 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.

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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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