



Basic Climatological Station Metadata

Current status

Metadata compiled: 28 JUL 2020

Station: MILDURA AIRPORT

Bureau of Meteorology station number: 076031

Bureau of Meteorology district name: North Mallee

State: VIC

World Meteorological Organization number: 94693

Identification: YMIA

Network Classification: CLIMAT Stations, GCOS Surface Network, National Benchmark Network for Agrometeorology, Regional Basic Synoptic Network

Station purpose: Synoptic, Upper Air, Aeronautical

Automatic Weather Station: Almos



Current Station Location

Latitude	Decimal	-34.2358	Hour Min Sec	34°14'9"S
Longitude	Decimal	142.0867	Hour Min Sec	142°5'12"E
Station Height	50 m	Barometer Height	51.1 m	
Method of station geographic positioning			GPS	

Year opened: 1946

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.

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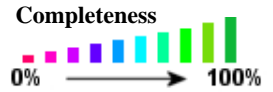
Basic Climatological Station Metadata

Current status

Station: MILDURA AIRPORT	Location: MILDURA AIRPORT			State: VIC	
Bureau No.: 076031	WMO No.: 94693	Aviation ID: YMIA	Opened: 01 Aug 1946		Current Status: Still open
Latitude: -34.2358	Longitude: 142.0867	Elevation: 50 m	Barometer Elev: 51.1 m	Metadata compiled: 28 JUL 2020	

Observation summary

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



DAILY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
EVAPORATION	NOV 1965	JUN 2020	96.6	300	12
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	JAN 1974	JUN 2011	99.0	135	0
GROUND MINIMUM TEMPERATURE	JUL 1951	JAN 2020	94.7	398	30
MAXIMUM AIR TEMPERATURE	AUG 1946	JUN 2020	99.8	40	0
MAXIMUM WIND GUST SPEED	AUG 1957	JUN 2020	99.4	135	0
SUNSHINE HOURS	JUL 1989	JUN 2020	97.1	318	0
WIND RUN ABOVE 10 FEET	OCT 1993	JUN 2020	98.4	155	0
WIND RUN BELOW 10 FEET	NOV 1973	JUN 2020	97.8	375	0
RAINFALL	AUG 1946	JUL 2020	100	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 1946	JUN 2020	98.8	8.9	83	3
DEW POINT	JAN 1946	JUN 2020	98.8	8.9	83	3
MEAN SEA LEVEL PRESSURE	AUG 1946	JUN 2020	99.1	8.9	58	1
SOIL TEMPERATURE - 10cm	AUG 1997	JUN 2020	82.0	2.0	153	32
TOTAL CLOUD AMOUNT	JAN 1946	JUN 2020	97.0	6.7	126	3
WIND SPEED	JAN 1946	JUN 2020	98.8	8.9	83	3
UPPER AIR WIND SPEED	NOV 1908	MAY 2013	54.9	3.9	517	508

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RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	APR 1953	JUL 2016	90.2	1473	26

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	JUL 2002	JUL 2020	99.4	1431.4	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	JAN 1989	JUL 2020	88.3	42.4	N/A	7

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	Mar 1997	May 2013	N/A	3.5	201	0
Wind, temperature and pressure flights	Jan 1999	Apr 2003	N/A	1.0	956	18

Holdings calculated up to 01 Jul 2020

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

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

Unlisted element

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

Listed element to use

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

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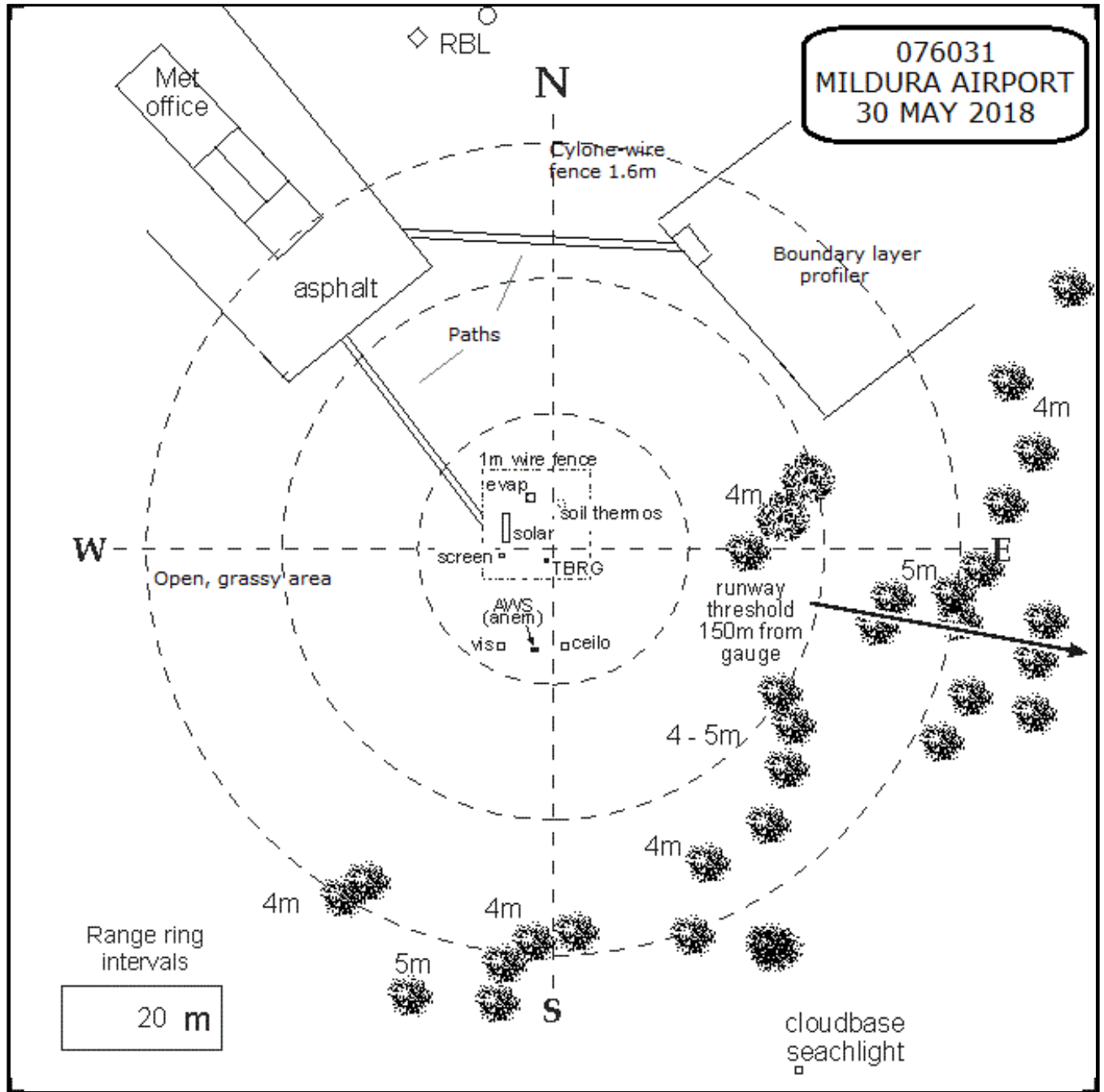
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

30/05/2018(most recent)



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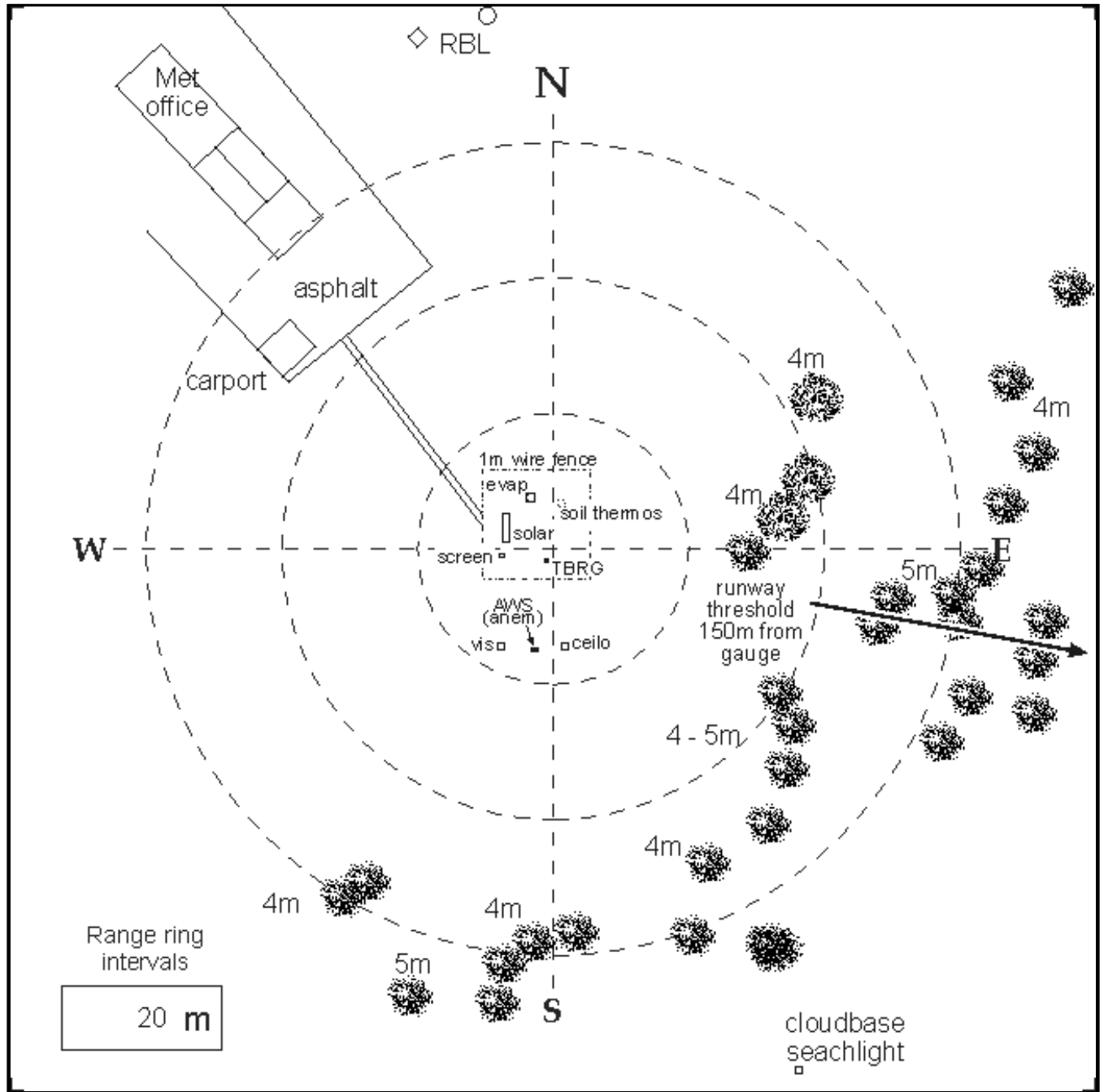
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Instrument Location and Surrounding Features

05/09/2006



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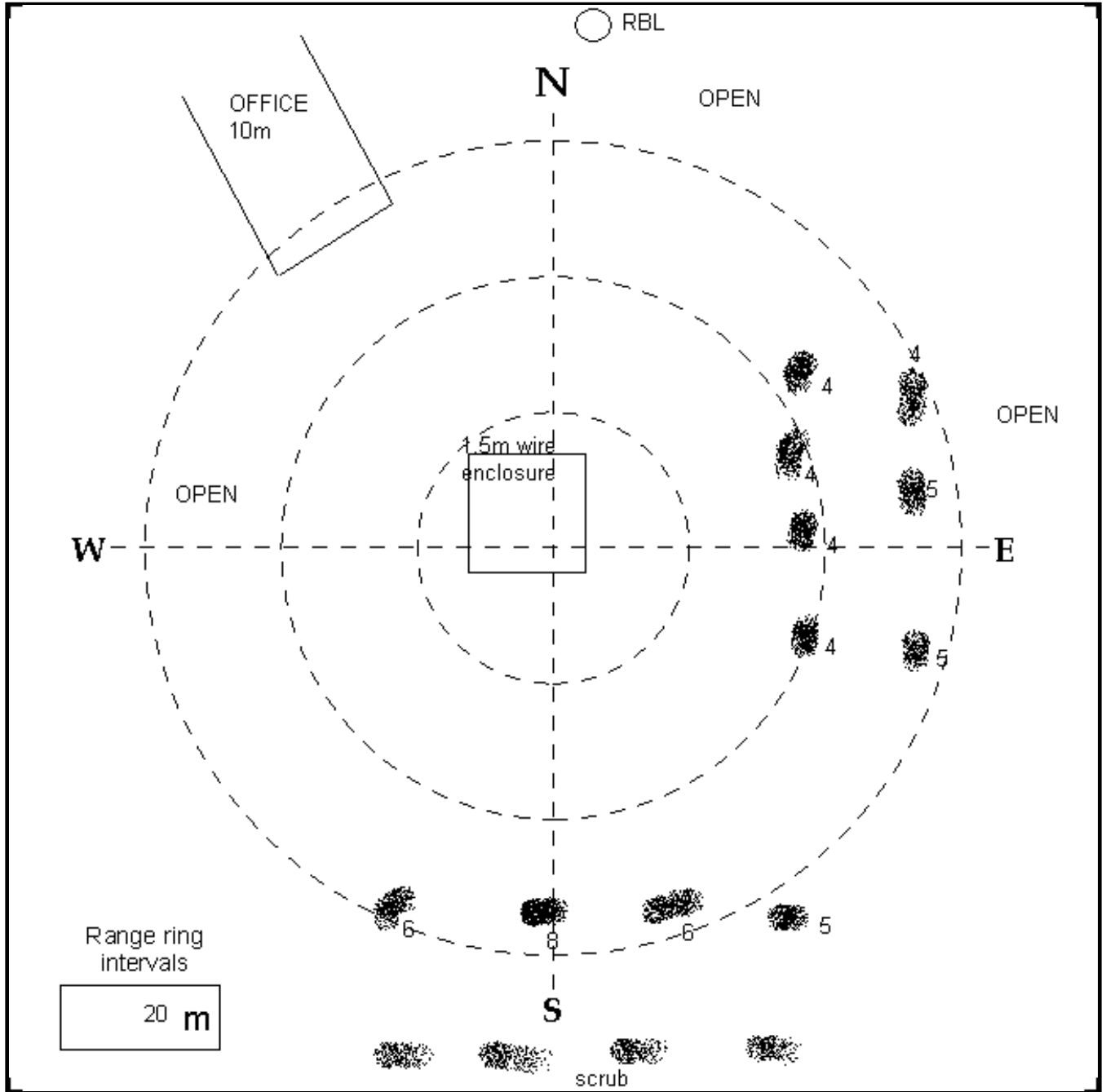
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Instrument Location and Surrounding Features

30/05/2001



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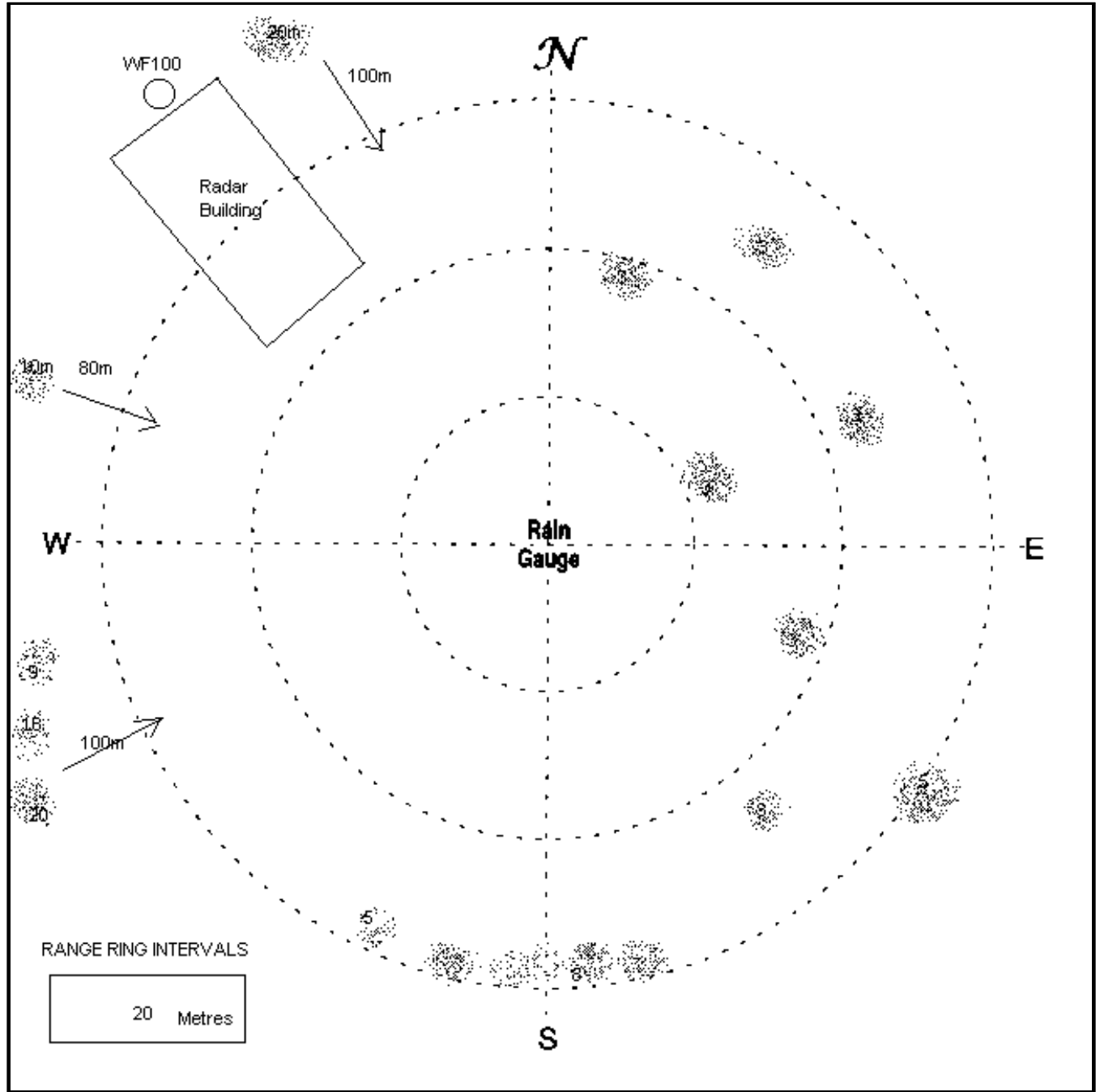
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Instrument Location and Surrounding Features

03/08/1989



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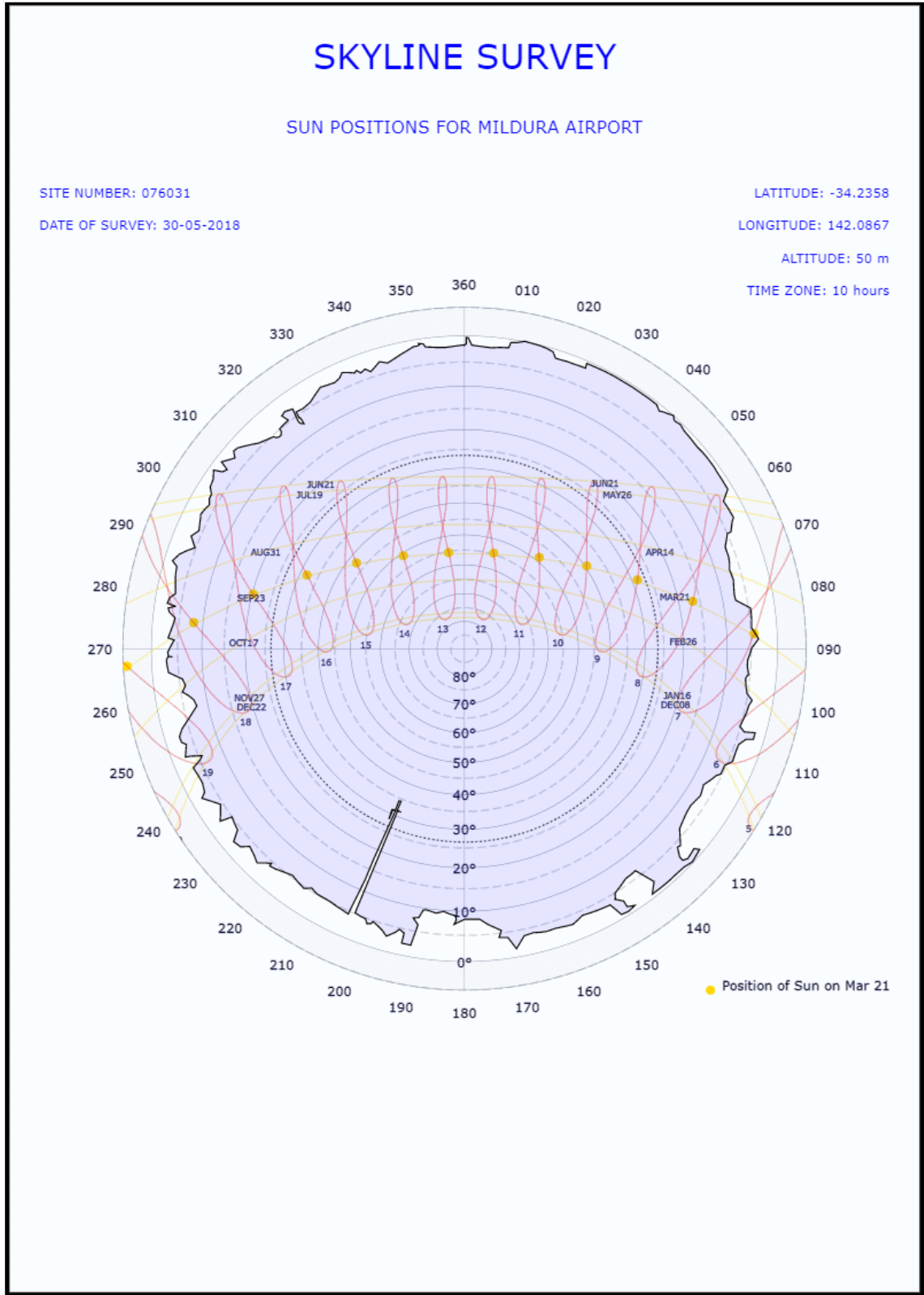


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Skyline Diagram 30/05/2018(most recent)



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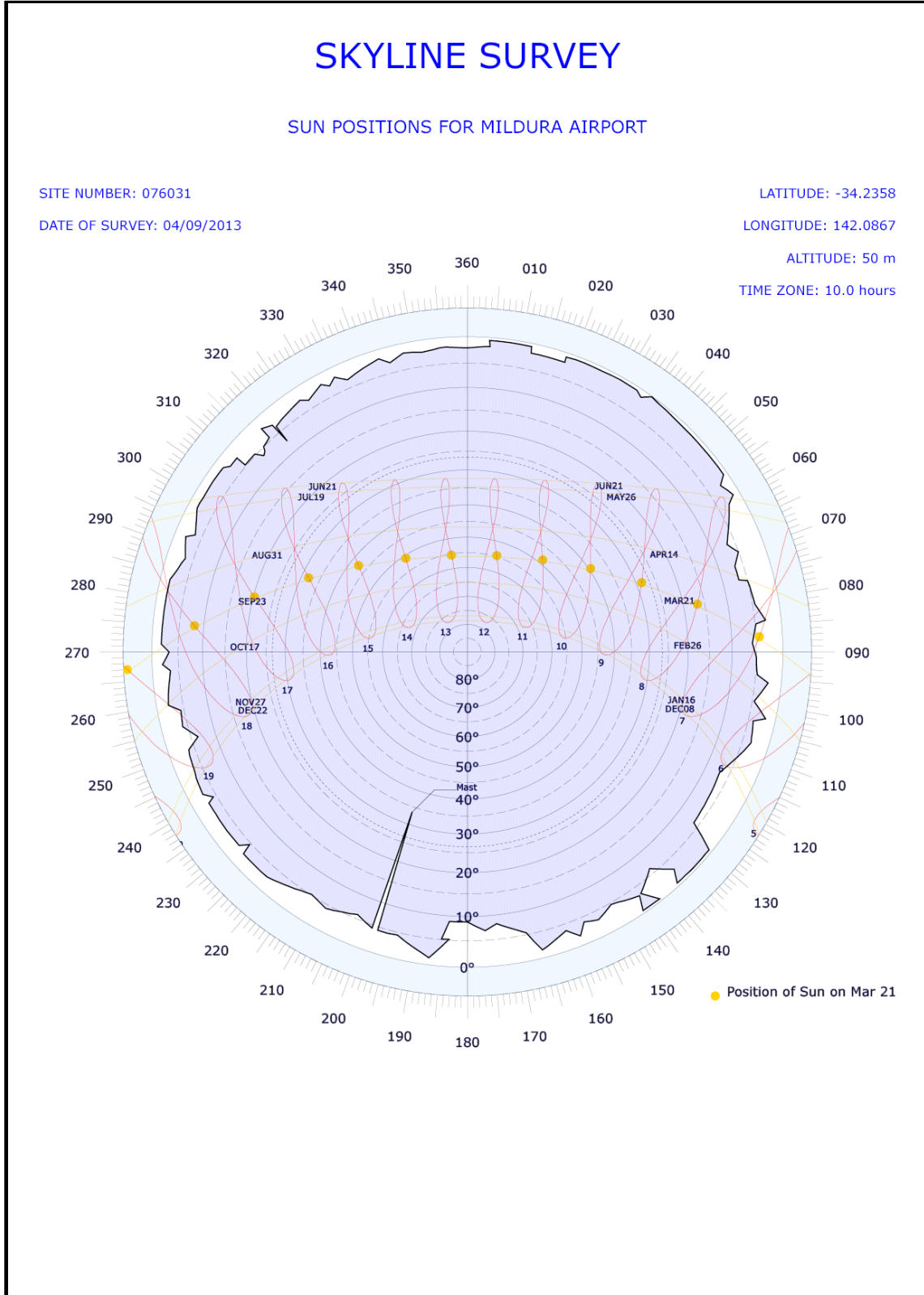


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Skyline Diagram 04/09/2013



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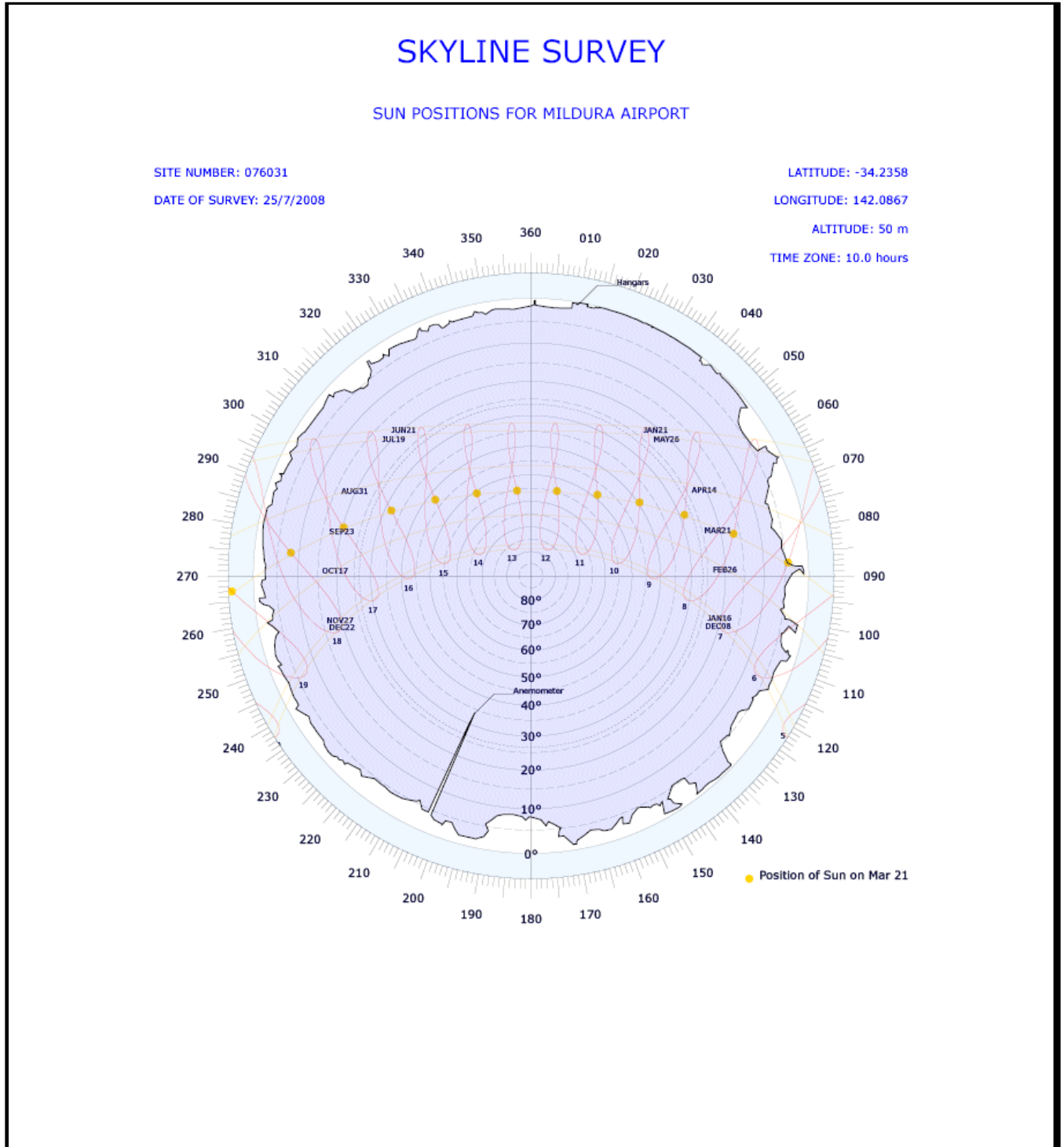
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Skyline Diagram

25/07/2008



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Station Observation Program Summary (Surface Observations) from 02/01/1946 to 30/07/2002

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 30/07/2002 to 14/01/2012

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 14/01/2012 to 27/04/2012

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 27/04/2012 to 23/06/2012

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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Station Observation Program Summary (Surface Observations) from 23/06/2012 to 28/01/2015

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 2020 (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 01/07/1999 to 15/01/2012

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

Upper Air Routine 15/01/2012 to 24/04/2012

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

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Upper Air Routine 24/04/2012 to 23/06/2012

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

Upper Air Routine 23/06/2012 to 29/05/2013

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

Upper Air Routine 29/05/2013 (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	-	-	-	-	-	-	-
Wind & Temp.	18:00	-	-	-	-	-	-	-
Wind	00:00	Y	Y	Y	Y	Y	Y	Y
Wind	06:00	Y	Y	Y	Y	Y	Y	Y
Wind	12:00	Y	Y	Y	Y	Y	Y	Y
Wind	18:00	Y	Y	Y	Y	Y	Y	Y

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Station Equipment History

Equipment Install/Remove

Cloud Height

05/MAY/2005 INSTALL Ceilometer (Type Vaisala CT25K S/N - A02501) Surface Observations
 26/NOV/2019 REPLACE Ceilometer (Now Vaisala CL31 S/N - R2110432) Surface Observations
 17/APR/2019 REPLACE Ceilometer (Now Vaisala CT25K S/N - A50402) Surface Observations
 26/MAR/2011 REPLACE Ceilometer (Now Vaisala CT25K S/N - C07401) Surface Observations
 25/JUL/2016 REPLACE Ceilometer (Now Vaisala CT25K S/N - W09405) Surface Observations
 13/JUN/2005 REPLACE Ceilometer (Now Vaisala CT25K S/N - W09405) Surface Observations
 01/AUG/1946 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - 86F7) Surface Observations
 05/MAY/2005 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - 86F7) Surface Observations

River Height (No Electronic History)

Wind Run

01/JAN/1972 INSTALL Wind Run Anemometer (Type Synchrotac S/N - 36558) Surface Observations
 09/MAY/2018 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 587) Surface Observations
 17/JUL/2001 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 598) Surface Observations

Spectral Radiation

01/DEC/1999 INSTALL Photometer Head (Type SPO2 Mk1 S/N - 1001) Radiation
 20/FEB/2001 INSTALL Photometer Head (Type SPO2 Mk1 S/N - 1002) Radiation
 06/NOV/1998 INSTALL Photometer Head (Type SPO2 Mk1 S/N - 1004) Radiation
 26/AUG/2001 REMOVE Photometer Head (Type SPO2 Mk1 S/N - 1001) Radiation
 02/MAR/1999 REMOVE Photometer Head (Type SPO2 Mk1 S/N - 1004) Radiation
 02/MAR/2006 REMOVE Photometer Head (Type SPO2 Mk1 S/N - 1041) Radiation
 12/DEC/2003 REPLACE Photometer Head (Now SPO2 Mk1 S/N - 1041) Radiation

Sea Surface Temperature (No Electronic History)

Sea Water Temperature (No Electronic History)

Evaporation

30/SEP/1965 INSTALL Evaporation Pan (Type Class A S/N - Unknown) Surface Observations
 11/JAN/2010 REPLACE Evaporation Pan (Now Unknown S/N - Unknown) Surface Observations

Minimum Temperature

01/SEP/1946 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - 3526) Surface Observations
 01/AUG/2017 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - M3314) Surface Observations
 22/FEB/2001 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 16995) Surface Observations
 25/JUL/2008 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - M3314) Surface Observations

Soil Temperature 50cm

26/JUL/1989 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - 466) Surface Observations

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Maximum Temperature

01/SEP/1946 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 14798) Surface Observations
 27/JUL/2017 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - 14798) Surface Observations

Soil Temperature 20cm

26/JUL/1989 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - 9604839) Surface Observations

Solar Radiation

29/APR/1996 INSTALL Global Pyranometer Mount (Type Carter Scott Mk1 S/N - Unknown) Radiation

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Extended Climatological Station Metadata

All History

Station: MILDURA AIRPORT	Location: MILDURA AIRPORT			State: VIC
Bureau No.: 076031	WMO No.: 94693	Aviation ID: YMIA	Opened: 01 Aug 1946	Current Status: Still open
Latitude: -34.2358	Longitude: 142.0867	Elevation: 50 m	Barometer Elev: 51.1 m	Metadata compiled: 28 JUL 2020

Station Equipment History (continued)

Equipment Install/Remove(Continued)

- 29/APR/1996 INSTALL Pyranometer (Type Kipp&Zonen CM11 S/N - 924008) Radiation
- 29/APR/1996 INSTALL Pyranometer (Type Kipp&Zonen CM11 S/N - 924022) Radiation
- 02/MAR/2006 REMOVE Global Pyranometer Mount (Type Carter Scott Mk1 S/N - Unknown) Radiation
- 02/MAR/2006 REMOVE Pyranometer (Type Kipp&Zonen CM11 S/N - 924008) Radiation
- 02/MAR/2006 REMOVE Pyranometer (Type Kipp&Zonen CM11 S/N - 924022) Radiation
- 25/FEB/1997 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924008) Radiation
- 01/DEC/1999 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924008) Radiation
- 20/FEB/2001 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924008) Radiation
- 12/DEC/2003 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924008) Radiation
- 25/FEB/1997 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924022) Radiation
- 01/DEC/1999 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924022) Radiation
- 20/FEB/2001 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924022) Radiation
- 12/DEC/2003 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924022) Radiation

Soil Temperature 5cm (No Electronic History)

Oxygen Content (No Electronic History)

Sea Water Level (No Electronic History)

Surface Inclination (No Electronic History)

Terrestrial Minimum Temperature

- 01/JUL/1951 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - 6126) Surface Observations
- 25/JUL/2008 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M4609) Surface Observations

Visibility

- 05/MAY/2005 INSTALL Visibility Meter (Type Vaisala FD12 S/N - A03104) Surface Observations

Solar Radiation (Direct)

- 29/APR/1996 INSTALL Pyrhelimeter (Type Kipp&Zonen CH1 S/N - 940046) Radiation
- 02/MAR/2006 REMOVE Pyrhelimeter (Type Kipp&Zonen CH1 S/N - 940046) Radiation

Magnetic Bearing (No Electronic History)

Wind Direction

- 01/OCT/1989 INSTALL Anemometer (Type Synchronac Cups - Type 732 S/N - NONE) Surface Observations
- 01/OCT/1989 INSTALL Anemometer (Type Synchronac Vane - Type 706 S/N - NONE) Surface Observations
- 01/OCT/1989 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - Unknown) Infrastructure
- 01/JAN/1972 INSTALL Wind Run Anemometer (Type Synchronac S/N - 36558) Surface Observations
- 27/JUN/2012 REPLACE Anemometer (Now Synchronac Cups - Type 732 S/N - NONE) Surface Observations
- 27/JUN/2012 REPLACE Anemometer (Now Synchronac Vane - Type 706 S/N - NONE) Surface Observations
- 09/MAY/2018 REPLACE Wind Run Anemometer (Now Synchronac S/N - 587) Surface Observations
- 17/JUL/2001 REPLACE Wind Run Anemometer (Now Synchronac S/N - 598) Surface Observations

Air Temperature

- 27/OCT/2014 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 60999441) Surface Observations
- 01/OCT/1989 INSTALL Temperature Probe - Dry Bulb (Type Unknown S/N - NONE) Surface Observations
- 27/JUN/2012 REPLACE Temperature Probe - Dry Bulb (Now Rosemount ST2401 S/N - 654) Surface Observations
- 12/OCT/2000 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 15853) Surface Observations
- 01/SEP/1946 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 1896) Surface Observations
- 12/OCT/2000 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - M1980) Surface Observations
- 12/OCT/2000 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - M2803) Surface Observations

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Extended Climatological Station Metadata

All History

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Bureau No.: 076031	WMO No.: 94693	Aviation ID: YMIA	Opened: 01 Aug 1946	Current Status: Still open
Latitude: -34.2358	Longitude: 142.0867	Elevation: 50 m	Barometer Elev: 51.1 m	Metadata compiled: 28 JUL 2020

Station Equipment History (continued)

Equipment Install/Remove(Continued)

- 13/OCT/2000 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 15853) Surface Observations
- 13/OCT/2000 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - M1980) Surface Observations
- 13/OCT/2000 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - M2803) Surface Observations

Wet Bulb Temperature

- 01/OCT/1989 INSTALL Temperature Probe - Wet Bulb (Type Unknown S/N - NONE) Surface Observations
- 21/OCT/2014 REMOVE Temperature Probe - Wet Bulb (Type WIKA TR40 S/N - 107822-12) Surface Observations
- 27/JUN/2012 REPLACE Temperature Probe - Wet Bulb (Now WIKA TR40 S/N - 107822-12) Surface Observations
- 01/SEP/1946 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 1892) Surface Observations
- 25/JUL/2008 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M2805) Surface Observations

Lightning (No Electronic History)

Turbidity (No Electronic History)

Total Column Ozone Amount (No Electronic History)

Pressure

- 26/AUG/1946 INSTALL Barometer (Type Kew pattern mercury S/N - 1458) Surface Observations
- 01/JUL/1951 INSTALL Barometer (Type Kew pattern mercury S/N - 2006) Surface Observations
- 25/MAY/1992 INSTALL Barometer (Type Vaisala PA11A S/N - 458188) Surface Observations
- 30/JUN/1951 REMOVE Barometer (Type Kew pattern mercury S/N - 1458) Surface Observations
- 25/MAY/1992 REMOVE Barometer (Type Kew pattern mercury S/N - 2006) Surface Observations
- 25/JUL/2013 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - G2120007) Surface Observations

Humidity

- 27/OCT/2014 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 60999441) Surface Observations

Sunshine Hours

- 26/JUL/1989 INSTALL Sunshine Recorder (Type Negretti/Zambra S/N - M10509) Surface Observations

Pressure Trend

- 01/JAN/1967 INSTALL Barograph (Type Weekly S/N - 179) Surface Observations
- 28/JAN/2015 REMOVE Barograph (Type Weekly S/N - 179) Surface Observations

Snow Height (No Electronic History)

Wind Speed

- 01/OCT/1989 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - NONE) Surface Observations
- 01/OCT/1989 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - NONE) Surface Observations
- 01/OCT/1989 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - Unknown) Infrastructure
- 01/JAN/1972 INSTALL Wind Run Anemometer (Type Synchrotac S/N - 36558) Surface Observations
- 27/JUN/2012 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - NONE) Surface Observations
- 27/JUN/2012 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - NONE) Surface Observations
- 09/MAY/2018 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 587) Surface Observations
- 17/JUL/2001 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 598) Surface Observations

Rainfall

- 01/APR/1953 INSTALL Pluviograph (Type Unknown S/N - Unknown) Rainfall Intensity
- 31/MAR/1995 REMOVE Pluviograph (Type Unknown S/N - Unknown) Rainfall Intensity
- 01/AUG/1946 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations
- 01/OCT/1989 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Surface Observations
- 23/MAY/1995 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 94-116) Rainfall Intensity
- 23/MAY/1995 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 94-116) Surface Observations

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All History

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Latitude: -34.2358	Longitude: 142.0867	Elevation: 50 m	Barometer Elev: 51.1 m	Metadata compiled: 28 JUL 2020

Station Equipment History (continued)

Equipment Install/Remove(Continued)

02/FEB/2011 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 84064) Rainfall Intensity
 02/FEB/2011 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 84064) Surface Observations
 09/MAY/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 76604) Rainfall Intensity
 09/MAY/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 76604) Surface Observations
 23/MAY/1995 SHARE Raingauge (Type HS TB3A-0.2 S/N - 94-116) Rainfall Intensity
 23/MAY/1995 SHARE Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Rainfall Intensity
 23/MAY/1995 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 76604) Rainfall Intensity
 30/MAY/2018 UNSHARE Raingauge (Type Rimco 7499 TBRG S/N - 84064) Rainfall Intensity

Soil Temperature 100cm

26/JUL/1989 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - 9859561) Surface Observations

Soil Temperature 10cm

26/JUL/1989 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - 9725426) Surface Observations

Solar Radiation (Long Wave)

06/NOV/1998 INSTALL Pyrgeometer (Type Epply PIR S/N - 28986F3) Radiation
 02/MAR/2006 REMOVE Pyrgeometer (Type Epply PIR S/N - 28986F3) Radiation

RF Reflectivity

29/JUL/1989 INSTALL Radar (Type WF100-5C S/N - 00030) Upper Air
 29/JUL/1989 INSTALL Radar (Type WF100-5C S/N - 00030) WeatherWatch
 01/APR/1963 INSTALL Radar (Type WF2 S/N - Unknown) Upper Air
 17/OCT/1995 INSTALL Radar Interface (Type BOM S/N - Unknown) Upper Air
 09/JUN/2015 INSTALL Radar Safety System (RSS) (Type RSS (2502C/8502S) S/N - 6003-09) WeatherWatch
 01/JUN/1989 INSTALL Radar Tower (Type Cylindrical WF100 - 7.75 m S/N - Unknown) Infrastructure
 01/JUN/1989 REMOVE Radar (Type WF2 S/N - Unknown) Upper Air

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
05/JUL/2005 - 17/APR/2019	Cloud Height	1
25/JUL/2008 - 30/MAY/2018	Wind Run	0
25/JUL/2008 - 17/APR/2019	Evaporation	0
25/JUL/2008 - 06/DEC/2016	Minimum Temperature	0
25/JUL/2008 - 30/MAY/2018	Soil Temperature 50cm	0
25/JUL/2008 - 03/FEB/2016	Maximum Temperature	0
25/JUL/2008 - 30/MAY/2018	Soil Temperature 20cm	0
29/APR/1996 - 06/NOV/1998	Solar Radiation	0
25/JUL/2008 - 06/DEC/2016	Terrestrial Minimum Temperature	0
05/JUL/2005 - 17/APR/2019	Visibility	5
29/APR/1996 - 06/NOV/1998	Solar Radiation (Direct)	0
02/DEC/1997 - 17/APR/2019	Wind Direction	1
02/DEC/1997 - 17/APR/2019	Air Temperature	0

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Station Equipment History (continued)

Available Date Range	Element	Fail Field Performance Check
02/DEC/1997 - 30/MAY/2018	Wet Bulb Temperature	2
02/DEC/1997 - 17/APR/2019	Pressure	0
27/OCT/2014 - 17/APR/2019	Humidity	0
04/SEP/2013 - 04/SEP/2013	Pressure Trend	0
02/DEC/1997 - 17/APR/2019	Wind Speed	1
02/DEC/1997 - 17/APR/2019	Rainfall	6
25/JUL/2008 - 30/MAY/2018	Soil Temperature 100cm	0
25/JUL/2008 - 30/MAY/2018	Soil Temperature 10cm	0
06/NOV/1998 - 06/NOV/1998	Solar Radiation (Long Wave)	0
30/AUG/2002 - 14/JUN/2019	RF Reflectivity	5

Station Detail Changes

09/MAY/2006 CLASSIFICATION Assets Funded (AVAF)
 01/JUL/2011 CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT)
 26/JUN/2002 CLASSIFICATION CLIMAT Stations (CLC)
 09/MAY/2006 CLASSIFICATION Category B (TAF B)
 10/JAN/2011 CLASSIFICATION Critical (ASOSCRIT)
 01/MAY/1997 CLASSIFICATION GCOS Surface Network (GSN)
 01/JUL/2018 CLASSIFICATION HQ EVAPORATION (HQEVAP)
 01/JUL/2018 CLASSIFICATION HQ RAINFALL (HQRAIN)
 10/JUN/2014 CLASSIFICATION Important Aviation or Defence (AVIMP)
 01/JUL/1998 CLASSIFICATION Information and Observations (MIO) ENDED 28-01-2015
 05/OCT/2001 CLASSIFICATION National Benchmark Network for Agrometeorology (NBNA)
 01/JUL/2017 CLASSIFICATION Observing Operations Hub - Adelaide (OOH-A)
 21/MAR/2016 CLASSIFICATION Processed by ASOS (PBA)
 01/SEP/1992 CLASSIFICATION Reference Climate Stations (RCS) ENDED 30-06-2011
 14/FEB/1997 CLASSIFICATION Regional Basic Synoptic Network (RBSN)
 01/JUL/1998 CLASSIFICATION Upper Wind only (UW)
 12/JAN/2012 OBJECT Document/ASBESTOS REGISTER
 13/MAY/2011 OBJECT Document/AWS SITE AUDIT
 17/APR/2019 OBJECT Document/AWS SITE AUDIT
 03/FEB/2016 OBJECT Document/CEILOMETER STATUS
 21/OCT/2014 OBJECT Document/CEILOMETER STATUS
 18/NOV/2015 OBJECT Document/CEILOMETER STATUS
 06/DEC/2016 OBJECT Document/CEILOMETER STATUS
 11/OCT/2012 OBJECT Document/CEILOMETER STATUS
 24/JUL/2013 OBJECT Document/CEILOMETER STATUS
 10/APR/2014 OBJECT Document/CEILOMETER STATUS
 17/APR/2019 OBJECT Document/CEILOMETER STATUS
 30/MAY/2018 OBJECT Document/CEILOMETER STATUS
 10/MAY/2011 OBJECT Document/CEILOMETER STATUS
 29/JUL/2016 OBJECT Document/CEILOMETER STATUS
 06/APR/2017 OBJECT Document/CEILOMETER STATUS

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Station Equipment History (continued)

Station Detail Changes(Continued)

26/OCT/2011 OBJECT Document/CEILOMETER STATUS
 27/JUN/2012 OBJECT Document/CEILOMETER STATUS
 14/NOV/2012 OBJECT Document/CEILOMETER STATUS
 26/NOV/2019 OBJECT Document/CL31 Certificate
 30/OCT/2006 OBJECT Document/Mildura Radar 15m
 04/JUN/2015 OBJECT Document/Mildura Site Survey
 25/MAY/2018 OBJECT Document/RADAR MAINTENANCE CHECKSHEET
 08/APR/2014 OBJECT Document/RAPIC TX CAL DATA
 19/JUN/2008 OBJECT Document/RAPIC TX CAL DATA
 06/JUL/2005 OBJECT Document/RAPIC TX CAL DATA
 23/MAR/2006 OBJECT Document/RAPIC TX CAL DATA
 15/JUN/2006 OBJECT Document/RAPIC TX CAL DATA
 19/JAN/2007 OBJECT Document/RAPIC TX CAL DATA
 10/MAY/2007 OBJECT Document/RAPIC TX CAL DATA
 24/OCT/2007 OBJECT Document/RAPIC TX CAL DATA
 03/JAN/2008 OBJECT Document/RAPIC TX CAL DATA
 24/APR/2009 OBJECT Document/RAPIC TX CAL DATA
 01/APR/2010 OBJECT Document/RAPIC TX CAL DATA
 10/MAY/2011 OBJECT Document/RAPIC TX CAL DATA
 25/JUL/2008 OBJECT Document/SKYLINE DATA
 30/OCT/2006 OBJECT Document/SKYLINE DATA
 30/OCT/2003 OBJECT Document/SKYLINE DATA
 04/SEP/2013 OBJECT Document/SKYLINE DATA
 30/MAY/2018 OBJECT Document/SKYLINE DATA
 30/OCT/2006 OBJECT Document/SKYLINE DATA - RADAR
 21/OCT/2014 OBJECT Document/VISIBILITY METER STATUS
 04/AUG/2016 OBJECT Document/VISIBILITY METER STATUS
 18/NOV/2015 OBJECT Document/VISIBILITY METER STATUS
 11/OCT/2012 OBJECT Document/VISIBILITY METER STATUS
 24/JUL/2013 OBJECT Document/VISIBILITY METER STATUS
 10/APR/2014 OBJECT Document/VISIBILITY METER STATUS
 17/APR/2019 OBJECT Document/VISIBILITY METER STATUS
 30/MAY/2018 OBJECT Document/VISIBILITY METER STATUS
 10/MAY/2011 OBJECT Document/VISIBILITY METER STATUS
 06/APR/2017 OBJECT Document/VISIBILITY METER STATUS
 26/OCT/2011 OBJECT Document/VISIBILITY METER STATUS
 27/JUN/2012 OBJECT Document/VISIBILITY METER STATUS
 14/NOV/2012 OBJECT Document/VISIBILITY METER STATUS
 01/AUG/1946 STATION - (nondb seeding) Opened
 01/AUG/1946 STATION - (nondb seeding) aero_ht Changed to 50.6
 01/AUG/1946 STATION - (nondb seeding) bar_ht Changed to 52.2
 01/AUG/1946 STATION - (nondb seeding) bar_ht_deriv Changed to SURVEY
 01/AUG/1946 STATION - (nondb seeding) name Changed to MILDURA AIRPORT

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Latitude: -34.2358	Longitude: 142.0867	Elevation: 50 m	Barometer Elev: 51.1 m	Metadata compiled: 28 JUL 2020

Station Equipment History (continued)

Station Detail Changes(Continued)

01/AUG/1946 STATION - (nondb seeding) stn_ht Changed to 50
 01/AUG/1946 STATION - (nondb seeding) stn_ht_deriv Changed to SURVEY
 01/AUG/1946 STATION - (nondb seeding) wmo_num Changed to 94693
 01/AUG/1946 STATION aviation_id Changed to YMIA
 04/JUN/2015 STATION bar_ht Changed to 51.05
 03/MAY/2000 STATION bar_ht Changed to 52.8
 03/MAY/2000 STATION bar_ht_deriv Changed to SURVEY
 04/JUN/2015 STATION bar_ht_deriv Changed to SURVEY
 01/AUG/1946 STATION latitude Changed to -34.23053WGS 84
 14/JUL/1989 STATION latitude Changed to -34.2358Site relocated to radar bulding area 14/7/1989
 14/JUL/1989 STATION latlon_deriv Changed to GPS
 01/AUG/1946 STATION latlon_deriv Changed to MAP 1:10 000
 14/JUL/1989 STATION latlon_error Changed to 20
 01/AUG/1946 STATION latlon_error Changed to 50
 14/JUL/1989 STATION longitude Changed to 142.0867Site relocated to radar bulding area 14/7/1989
 01/AUG/1946 STATION longitude Changed to 142.08764WGS 84
 01/AUG/1946 STATION lu_0_100m Changed to Airport
 01/AUG/1946 STATION lu_100m_1km Changed to Airport
 01/AUG/1946 STATION lu_1km_10km Changed to City area, buildings < 10 metres (3 storey)
 01/AUG/1946 STATION soil_type Changed to red soil
 01/AUG/1946 STATION surface_type Changed to mostly covered by grass

System Changes

02/JAN/1946 SYSTEM Infrastructure Commenced
 02/MAR/2006 SYSTEM Radiation Ceased
 29/APR/1996 SYSTEM Radiation Commenced
 30/MAY/2018 SYSTEM Rainfall Intensity Ceased
 01/APR/1953 SYSTEM Rainfall Intensity Commenced
 01/JAN/2006 SYSTEM Reference Standards Commenced
 02/JAN/1946 SYSTEM Surface Observations Commenced
 02/JAN/1946 SYSTEM Upper Air Commenced
 01/JUN/1989 SYSTEM WeatherWatch 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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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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