



Basic Climatological Station Metadata
Current status

Metadata compiled: 26 JUL 2025

Station: MEEKATHARRA AIRPORT

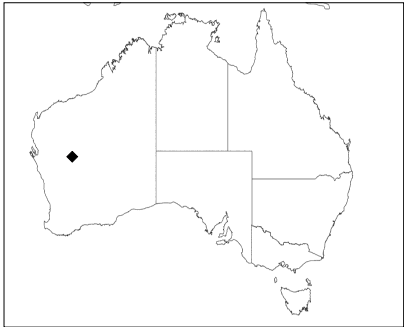
Bureau of Meteorology station number: 007045
Bureau of Meteorology district name: Murchison
State: WA

World Meteorological Organization number: 94430
Identification: YMEK

Network Classification: CLIMAT Stations, CLIMAT TEMP 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	-26.6136	Hour Min Sec	26°36'49"S
Longitude	Decimal	118.5372	Hour Min Sec	118°32'14"E
Station Height	517 m	Barometer Height	517.9 m	
Method of station geographic positioning			GPS	

Year opened: 1944
Status: Open

Station summary

No summary for this site has been written as yet.

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

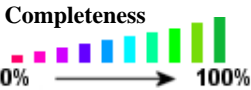


Basic Climatological Station Metadata
Current status

Station: MEEKATHARRA AIRPORT		Location: MEEKATHARRA AIRPORT		State: WA	
Bureau No.: 007045	WMO No.: 94430	Aviation ID: YMEK	Opened: 01 Jan 1944	Current Status: Still open	
Latitude: -26.6136	Longitude: 118.5372	Elevation: 517 m	Barometer Elev: 517.9 m	Metadata compiled: 26 JUL 2025	

Observation summary

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



DAILY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
EVAPORATION	JAN 1967	JAN 2017	92.5	1369	0
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	AUG 1968	JUN 2011	92.8	815	10
GROUND MINIMUM TEMPERATURE	JUN 1951	APR 2016	91.8	1858	2
MAXIMUM AIR TEMPERATURE	APR 1950	JUN 2025	99.3	137	1
MAXIMUM WIND GUST SPEED	MAR 1957	JUN 2025	99.1	221	0
WIND RUN ABOVE 10 FEET	MAY 1992	JUN 2025	97.6	283	0
WIND RUN BELOW 10 FEET	OCT 1968	JAN 2017	92.3	1359	0
RAINFALL	JUN 1944	JUL 2025	97	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	APR 1950	JUN 2025	97.4	9.3	64	0
DEW POINT	APR 1950	JUN 2025	97.4	9.3	75	0
MEAN SEA LEVEL PRESSURE	JUL 1951	JUN 2025	97.6	9.3	40	0
PRECIPITATION SINCE LAST OBS	JAN 1960	AUG 1999	75.3	5.7	3163	1
SOIL TEMPERATURE - 10cm	JUL 1959	APR 2016	68.6	5.5	1268	163
TOTAL CLOUD AMOUNT	APR 1950	JUN 2025	87.2	6.1	2101	0
WIND SPEED	APR 1950	JUN 2025	97.4	9.3	65	0
UPPER AIR TEMPERATURE	AUG 1994	JUN 2025	59.5	1.5	3332	4
UPPER AIR WIND SPEED	APR 1951	JUN 2025	78.2	2.9	2653	20

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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	AUG 2016	89.0	1749	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 2025	99.2	1428.1	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	DEC 1993	JUL 2025	101.5	48.7	N/A	3

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 2003	Feb 2017	N/A	1.0	235	159
Wind, temperature and pressure flights	Aug 1994	Nov 2018	N/A	1.4	2145	0

Holdings calculated up to 01 Jul 2025

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

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

Unlisted element

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

Listed element to use

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

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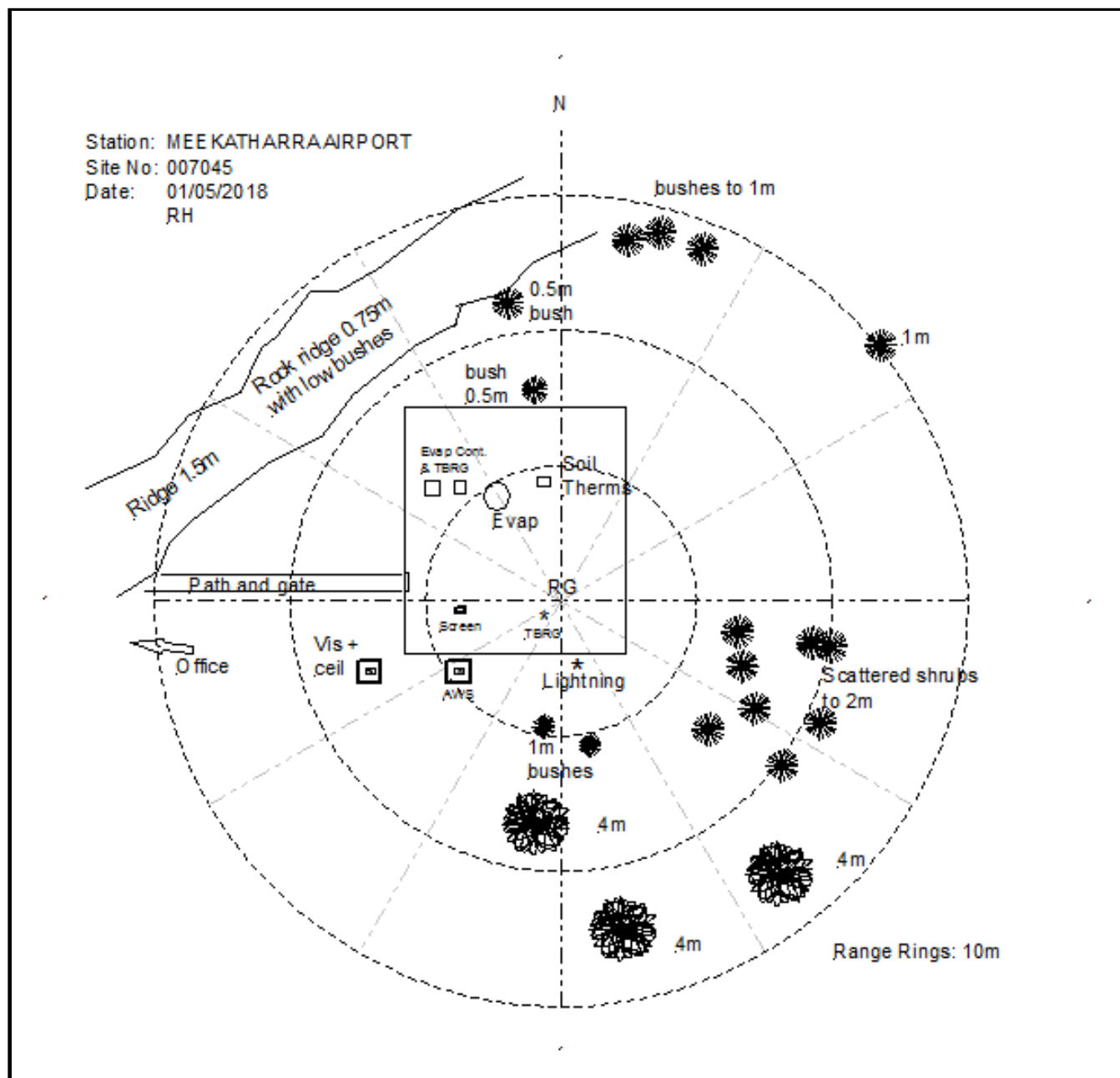
Extended Climatological Station Metadata

All History

Station:	MEEKATHARRA AIRPORT			Location:	MEEKATHARRA AIRPORT			State:	WA
Bureau No.:	007045	WMO No.:	94430	Aviation ID:	YMEK	Opened:	01 Jan 1944	Current Status:	Still open
Latitude:	-26.6136	Longitude:	118.5372	Elevation:	517 m	Barometer Elev:	517.9 m	Metadata compiled:	26 JUL 2025

Instrument Location and Surrounding Features

01/05/2018(most recent)



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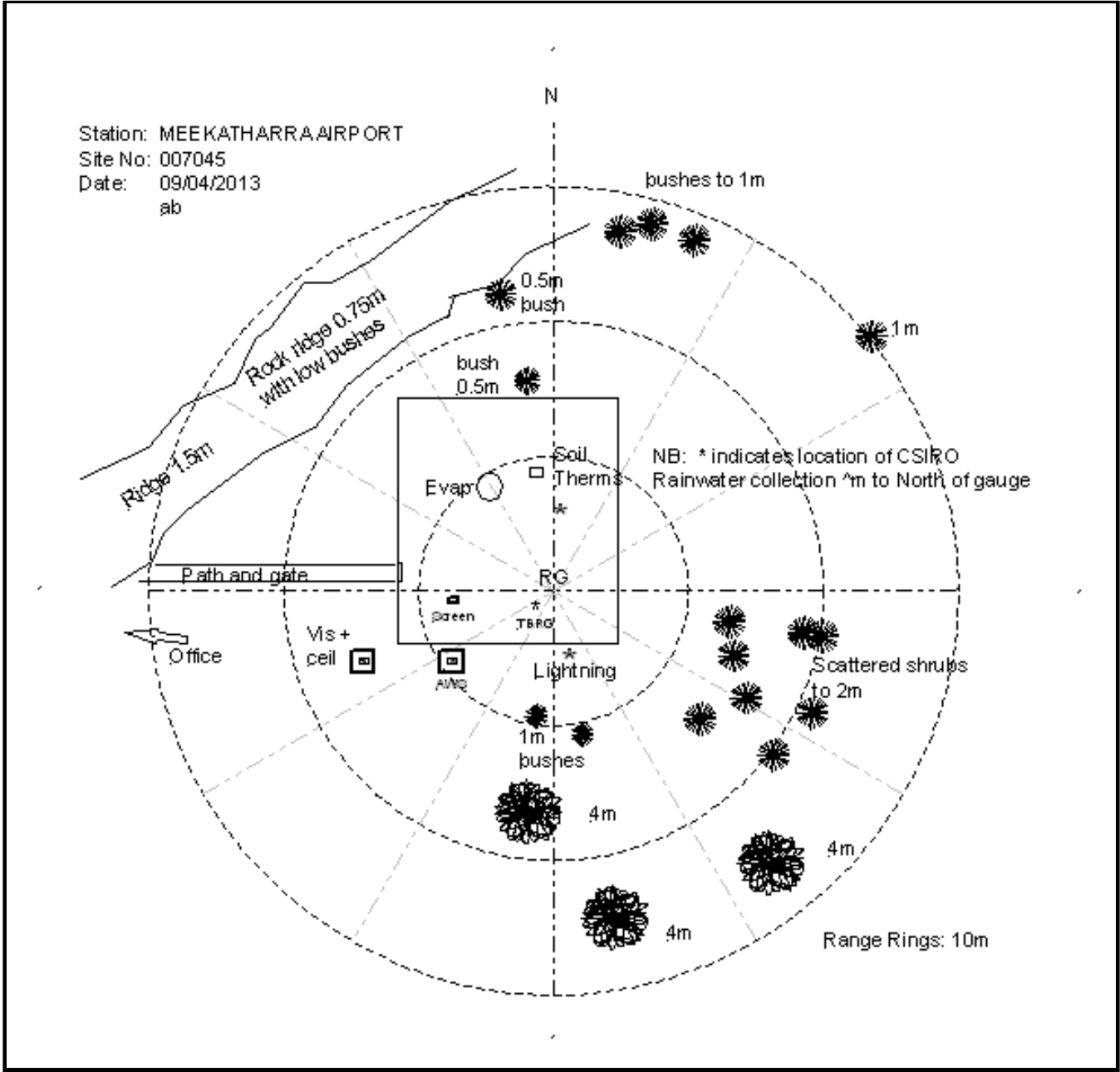
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Instrument Location and Surrounding Features
09/04/2013



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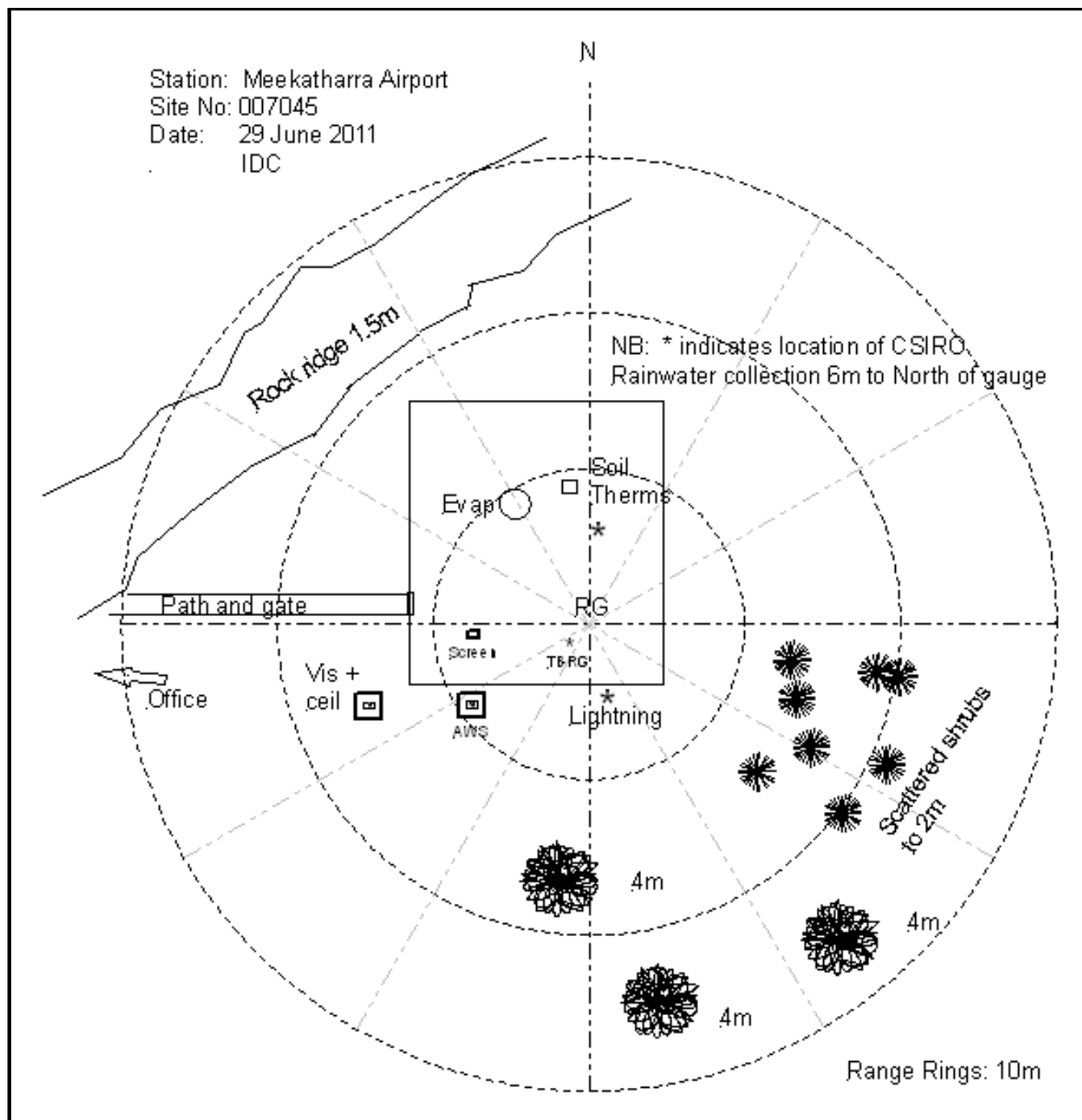
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Instrument Location and Surrounding Features

29/06/2011



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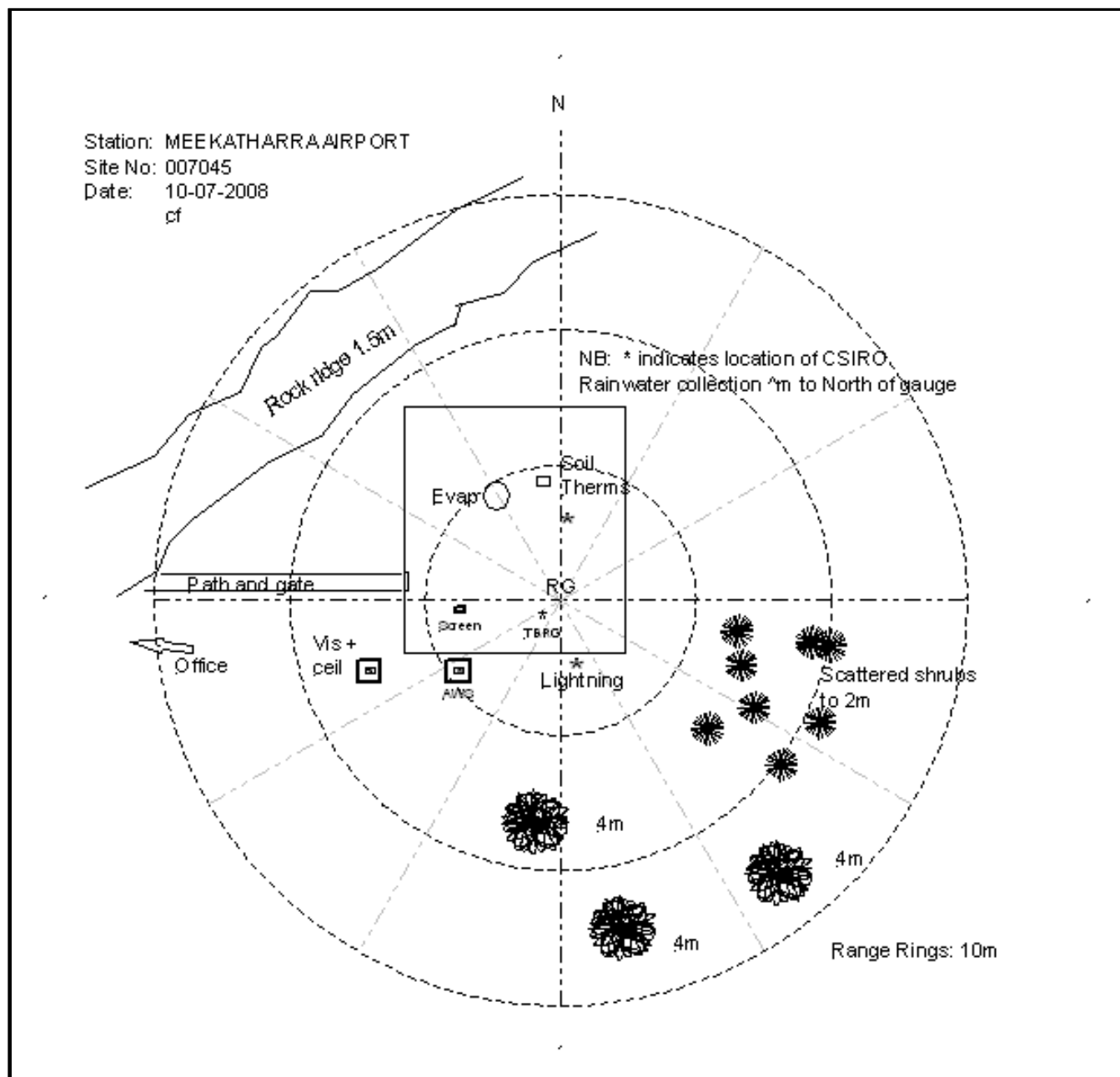
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

10/07/2008



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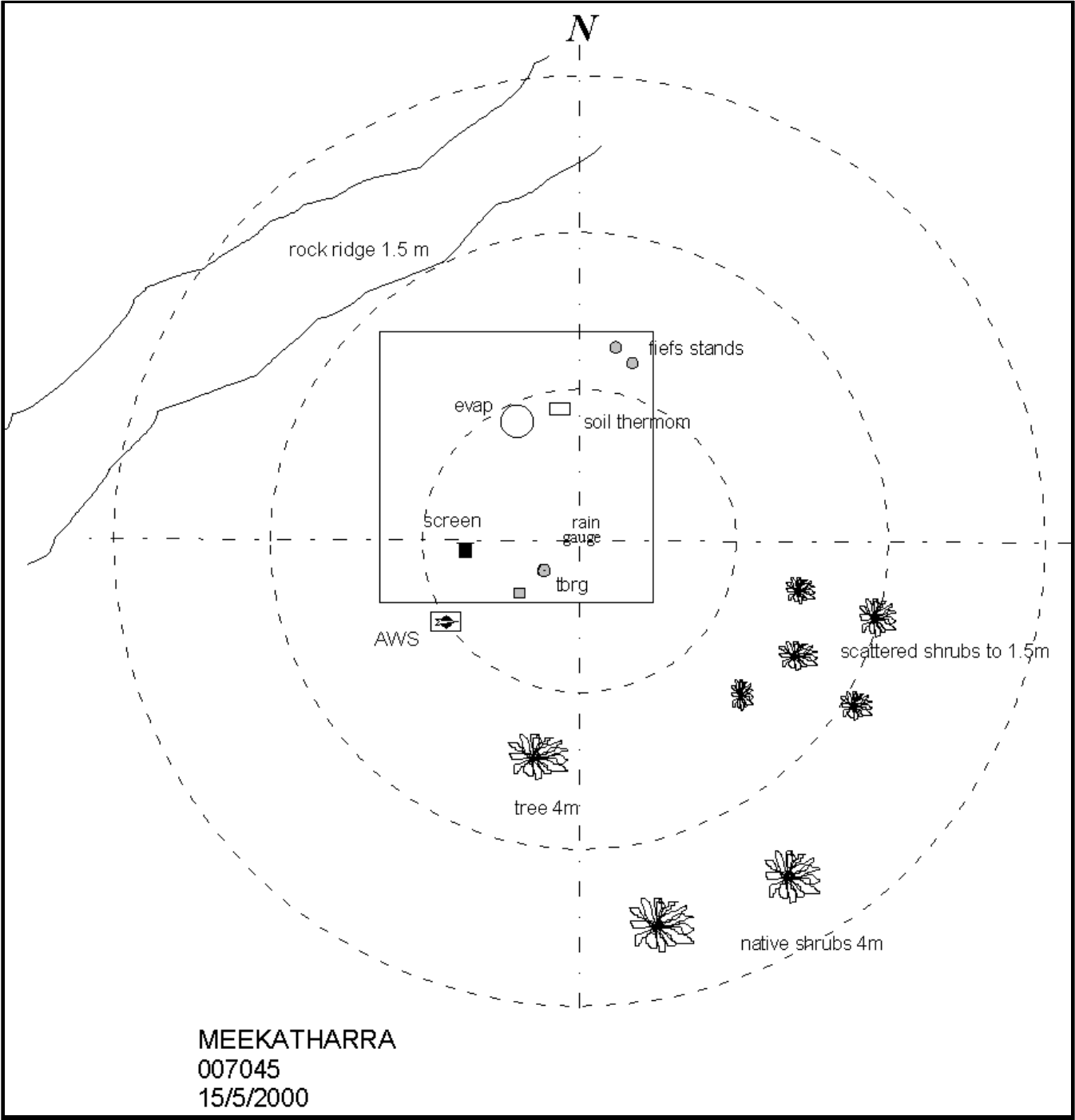
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Extended Climatological Station Metadata
All History

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Instrument Location and Surrounding Features
19/06/2000



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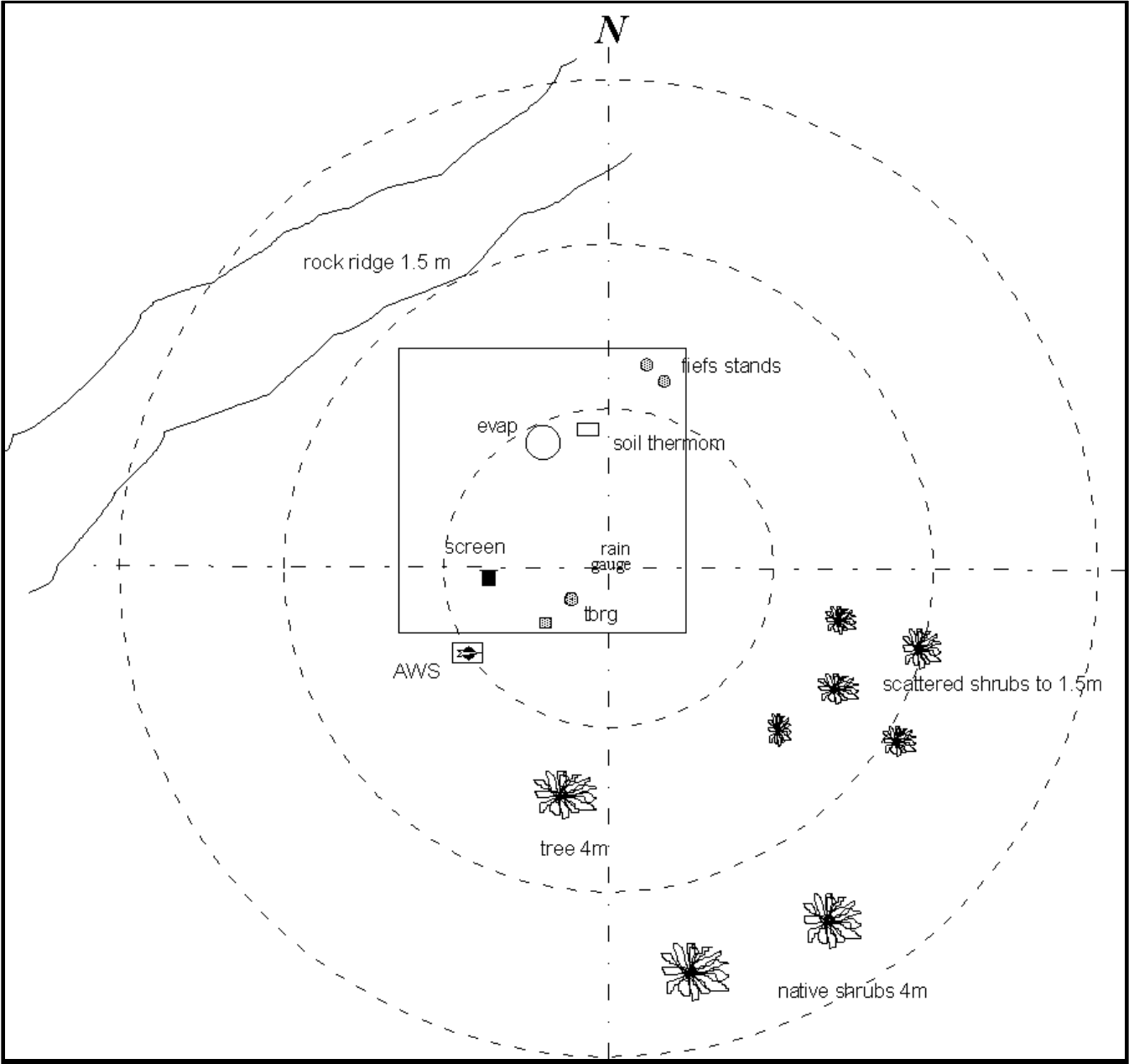
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Instrument Location and Surrounding Features
17/06/1998



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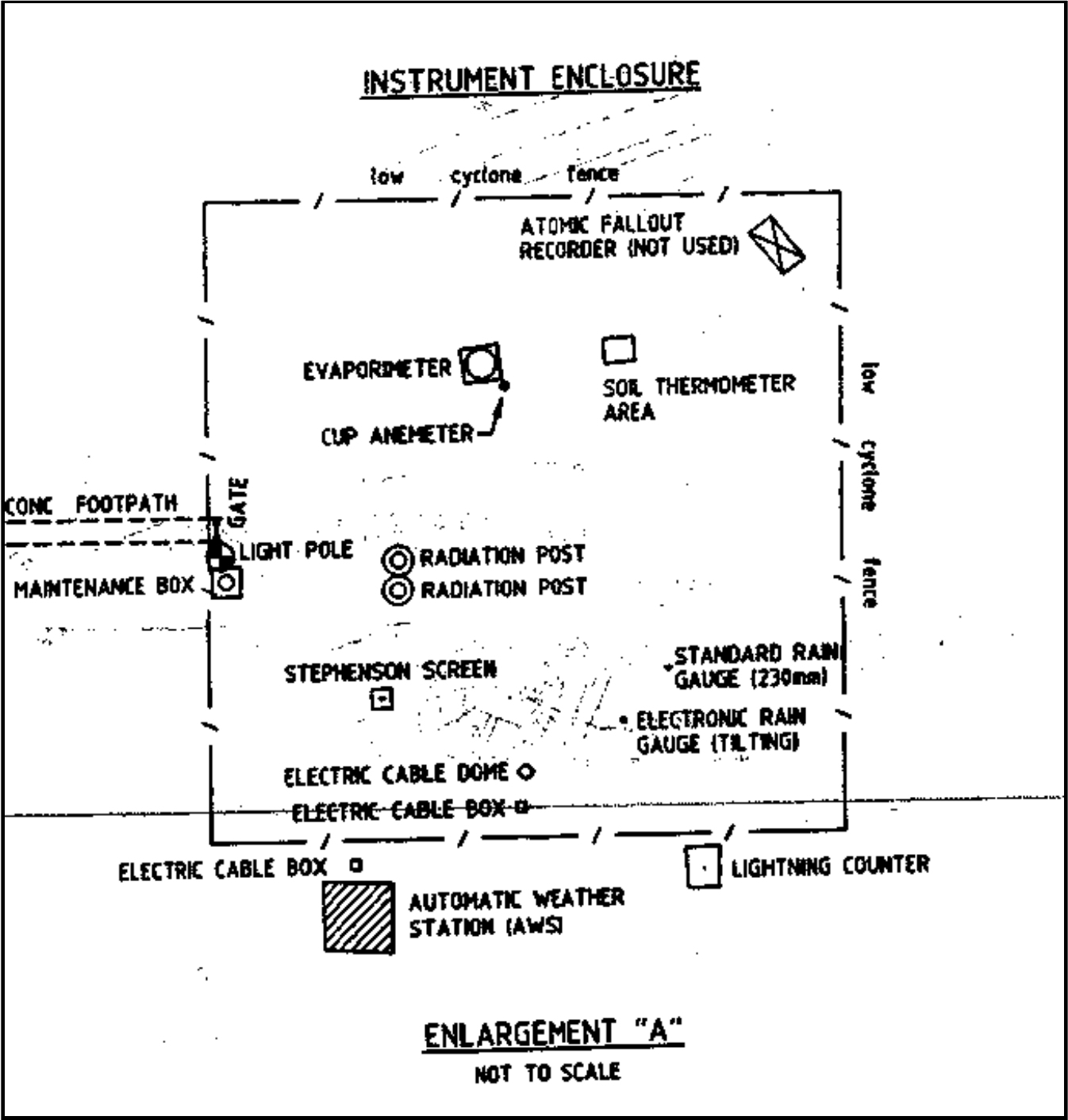
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Instrument Location and Surrounding Features
05/02/1998



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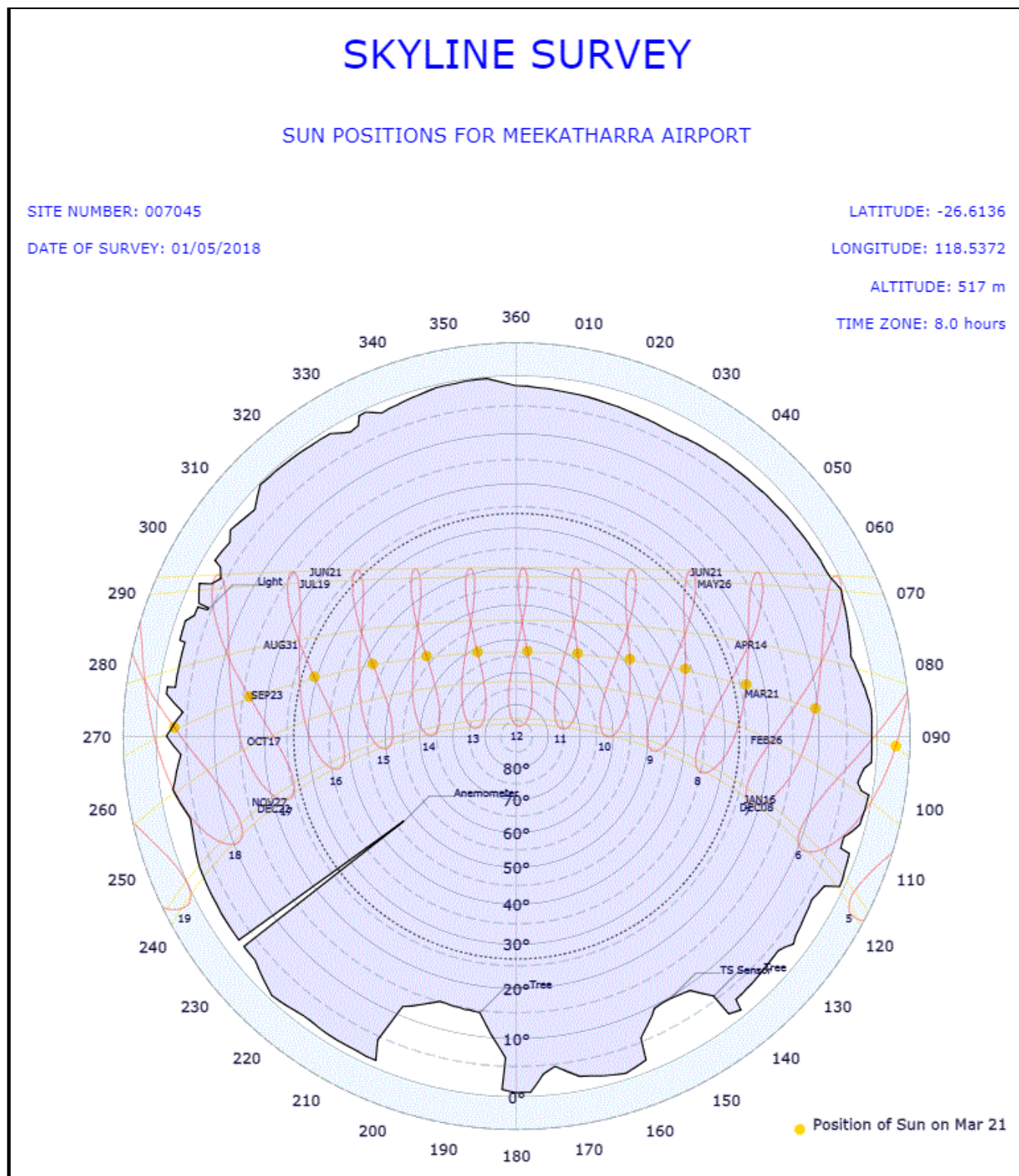
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Skyline Diagram

01/05/2018(most recent)



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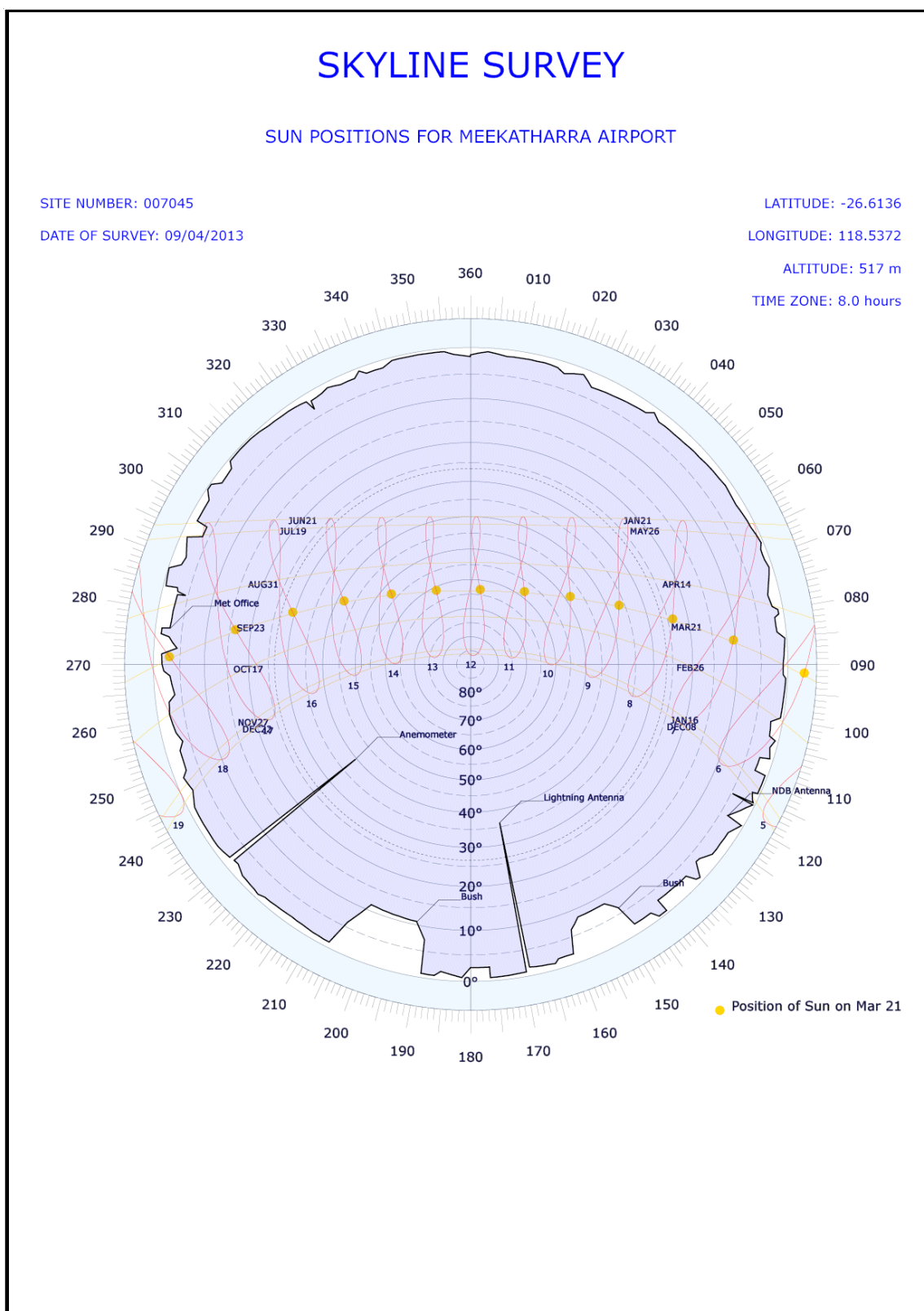
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Skyline Diagram



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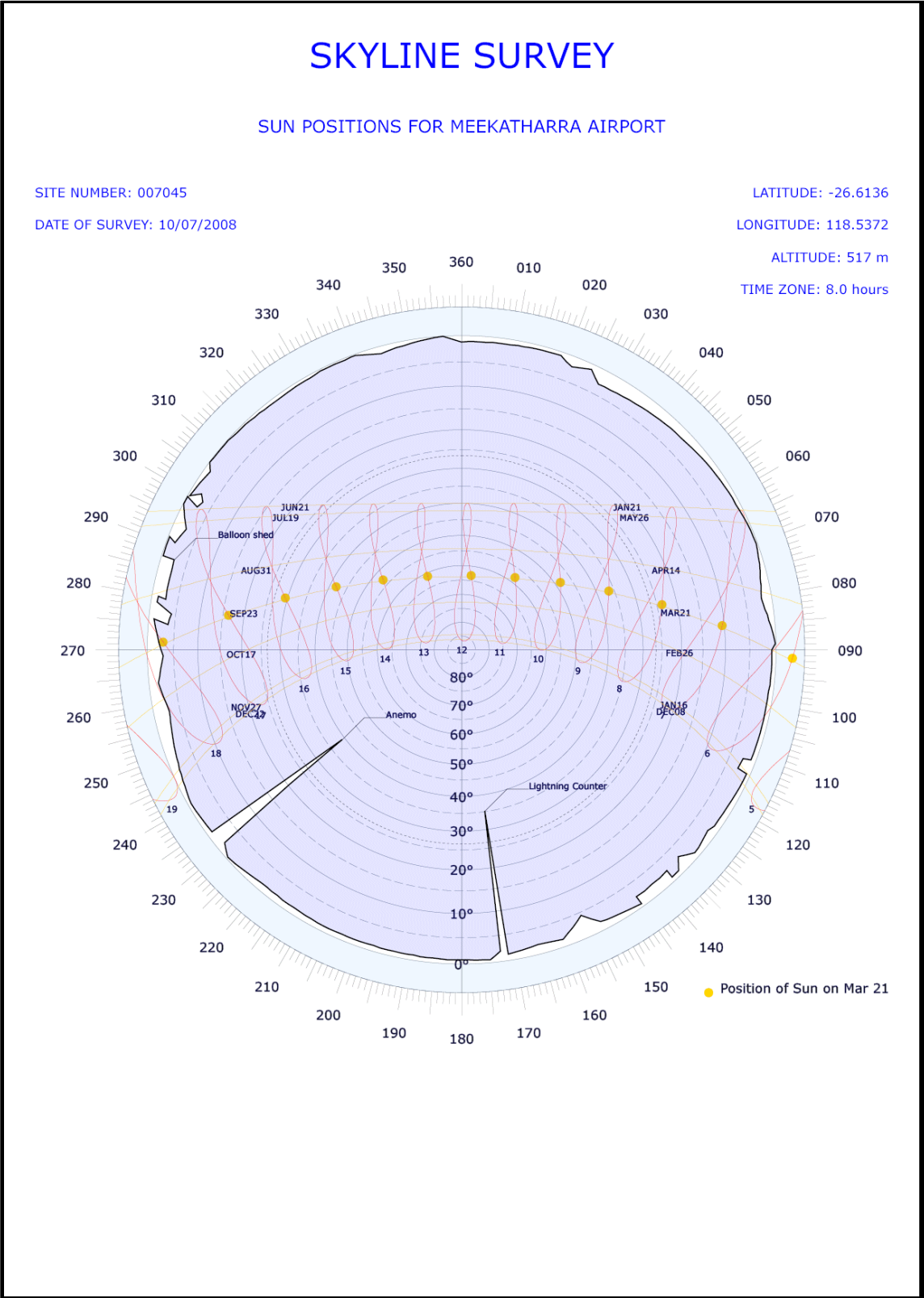
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Skyline Diagram
10/07/2008



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Station Observation Program Summary (Surface Observations) from 01/06/1944 to 06/06/1998

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 06/06/1998 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 28/04/2016

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) 26 JUL 2025 (most recent)

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

Upper Air Routine 15/06/1998 to 05/01/2005

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

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Station metadata

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

may not accept



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Upper Air Routine 05/01/2005 to 01/08/2012

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

Upper Air Routine 01/08/2012 (most recent)

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

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Station Equipment History

Equipment Install/Remove

Cloud Height

03/AUG/2001 INSTALL Ceilometer (Type Vaisala CT25K S/N - W09403) Surface Observations
12/DEC/2017 REPLACE Ceilometer (Now Vaisala CL31 S/N - N3620299) Surface Observations
11/NOV/2008 REPLACE Ceilometer (Now Vaisala CT25K S/N - Y08109) Surface Observations
01/MAY/1950 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - 1017) Surface Observations
03/AUG/2001 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - 1017) Surface Observations

Humidity

13/SEP/2016 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 407076013) Surface Observations
13/SEP/2016 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 407076013) Upper Air
01/APR/1973 INSTALL Hygrograph (Type Fielden S/N - Unknown) Surface Observations
07/FEB/1991 REMOVE Hygrograph (Type Fielden S/N - Unknown) Surface Observations

Pressure Trend

01/JAN/1967 INSTALL Barograph (Type Weekly S/N - CBM058) Surface Observations
15/APR/2013 REMOVE Barograph (Type Weekly S/N - CBM058) Surface Observations

Lightning

28/MAR/1974 INSTALL Lightning Flash Counter (Type CIGRE - Horizontal Aerial S/N - Unknown) Surface Observations
02/FEB/2017 REMOVE Lightning Flash Counter (Type CIGRE - Vertical Aerial S/N - M37) Surface Observations
01/FEB/1984 REPLACE Lightning Flash Counter (Now CIGRE - Vertical Aerial S/N - M37) Surface Observations

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

07/FEB/1991 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 64454) Surface Observations
15/JUN/1998 INSTALL Anemometer (Type Vaisala Cups WAA151 S/N - S41514) Upper Air
15/JUN/1998 INSTALL Anemometer (Type Vaisala Vane WAV151 S/N - S42226) Upper Air
07/FEB/1991 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
15/JUN/1998 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
01/JAN/1967 INSTALL Wind Run Anemometer (Type Munro S/N - CBM562) Surface Observations
02/AUG/2001 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - 64454) Surface Observations
03/AUG/2001 REMOVE Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
02/FEB/2017 REMOVE Wind Run Anemometer (Type Munro S/N - CBM562) Surface Observations
03/SEP/2013 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 103644) Surface Observations
03/SEP/2013 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 103644) Upper Air
03/SEP/2013 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 103634) Surface Observations
03/SEP/2013 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 103634) Upper Air
26/SEP/2011 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - T39640) Surface Observations
26/SEP/2011 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - T39640) Upper Air
27/MAR/2012 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - V16335) Surface Observations
27/MAR/2012 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - V16335) Upper Air
03/AUG/2001 SHARE Anemometer (Type Vaisala Cups WAA151 S/N - S41514) Surface Observations
03/AUG/2001 SHARE Anemometer (Type Vaisala Cups WAA151 S/N - T39640) Surface Observations
03/AUG/2001 SHARE Anemometer (Type Vaisala Vane WAV151 S/N - S42226) Surface Observations
03/AUG/2001 SHARE Anemometer (Type Vaisala Vane WAV151 S/N - V16335) Surface Observations

Wet Bulb Temperature

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Extended Climatological Station Metadata
All History

Station:	MEEKATHARRA AIRPORT		Location:	MEEKATHARRA AIRPORT		State:	WA
Bureau No.:	007045	WMO No.:	94430	Aviation ID:	YMEK	Opened:	01 Jan 1944
Latitude:	-26.6136	Longitude:	118.5372	Elevation:	517 m	Barometer Elev:	517.9 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

15/JUN/1998 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 0410) Upper Air
07/FEB/1991 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 410) Surface Observations
13/SEP/2016 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 0410) Surface Observations
13/SEP/2016 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 0410) Upper Air
02/AUG/2001 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 410) Surface Observations
03/AUG/2001 SHARE Temperature Probe - Wet Bulb (Type Rosemount S/N - 0410) Surface Observations
24/NOV/1999 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - M1918) Surface Observations
01/MAY/1950 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - M5967) Surface Observations
30/AUG/2016 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - M1918) Surface Observations
02/FEB/2017 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - M5962) Surface Observations
24/NOV/1999 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M5962) Surface Observations

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

01/MAY/1950 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 4979) Surface Observations
28/APR/2016 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - M2403) Surface Observations
24/MAY/2002 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M2403) Surface Observations

Soil Temperature 10cm

01/JAN/1959 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - CBM631) Surface Observations
28/APR/2016 REMOVE Thermometer, Soil, 10cm (Type Dobros S/N - 0270804) Surface Observations
29/JUN/2011 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - 0270804) Surface Observations
30/JAN/2003 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - 9604882) Surface Observations
24/NOV/1999 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - CBM624) Surface Observations

Soil Temperature 20cm

01/JAN/1959 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - CBM517) Surface Observations
28/APR/2016 REMOVE Thermometer, Soil, 20cm (Type Dobros S/N - CBM530) Surface Observations
24/NOV/1999 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - CBM517) Surface Observations
30/JAN/2003 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - CBM530) Surface Observations

Soil Temperature 50cm

01/JAN/1959 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - M 2148) Surface Observations
28/APR/2016 REMOVE Thermometer, Soil, 50cm (Type Dobros S/N - 9564487) Surface Observations
01/NOV/2002 REPLACE Thermometer, Soil, 50cm (Now Dobros S/N - 9564487) Surface Observations

Snow Height (No Electronic History)

Soil Temperature 100cm

01/JAN/1959 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - CBM463) Surface Observations
28/APR/2016 REMOVE Thermometer, Soil, 100cm (Type Dobros S/N - CBM463) Surface Observations

Sunshine Hours (No Electronic History)

Wind Run

01/JAN/1967 INSTALL Wind Run Anemometer (Type Munro S/N - CBM562) Surface Observations
02/FEB/2017 REMOVE Wind Run Anemometer (Type Munro S/N - CBM562) Surface Observations

Minimum Temperature

01/MAY/1950 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - 12730) Surface Observations
03/MAY/2016 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - 15671) Surface Observations

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Extended Climatological Station Metadata

All History

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Current Status:							Still open
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Station Equipment History (continued)

Equipment Install/Remove(Continued)

15/MAY/2000 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 15671) Surface Observations

24/NOV/1999 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 17262) Surface Observations

Terrestrial Minimum Temperature

01/SEP/1951 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - 2386) Surface Observations

28/APR/2016 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - 20664) Surface Observations

24/NOV/1999 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 12730) Surface Observations

02/MAR/2007 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 20664) Surface Observations

23/DEC/2003 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 21901) Surface Observations

15/MAY/2000 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M17262) Surface Observations

Visibility

03/AUG/2001 INSTALL Visibility Meter (Type Vaisala FD12 S/N - W11109) Surface Observations

12/APR/2019 REPLACE Visibility Meter (Now Vaisala FS11 S/N - P4110308) Surface Observations

Soil Temperature 5cm (No Electronic History)

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Oxygen Content (No Electronic History)

RF Reflectivity

28/MAR/1974 INSTALL Radar (Type WF3 S/N - Unknown) Upper Air

15/JUN/1998 REMOVE Radar (Type WF3 S/N - Unknown) Upper Air

Total Column Ozone Amount (No Electronic History)

Pressure

01/JUL/1951 INSTALL Barometer (Type Kew pattern mercury S/N - 1620) Surface Observations

15/JUN/1998 INSTALL Barometer (Type Vaisala DPA21 S/N - S222) Upper Air

12/JAN/1993 INSTALL Barometer (Type Vaisala PA11A S/N - 433541) Surface Observations

12/JAN/1993 REMOVE Barometer (Type Kew pattern mercury S/N - 1620) Surface Observations

21/APR/2011 REMOVE Barometer (Type Vaisala DPA21 S/N - S222) Surface Observations

21/APR/2011 REMOVE Barometer (Type Vaisala DPA21 S/N - S222) Upper Air

14/DEC/2000 REPLACE Barometer (Now Vaisala PA11A S/N - T1110007) Surface Observations

14/DEC/2000 REPLACE Barometer (Now Vaisala PA11A S/N - T1110007) Upper Air

26/MAR/2012 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - G2970051) Surface Observations

26/MAR/2012 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - G2970051) Upper Air

03/AUG/2001 SHARE Barometer (Type Vaisala DPA21 S/N - S222) Surface Observations

03/AUG/2001 SHARE Barometer (Type Vaisala PA11A S/N - 433541) Surface Observations

15/JUN/1998 SHARE Barometer (Type Vaisala PA11A S/N - 433541) Upper Air

03/AUG/2001 SHARE Barometer (Type Vaisala PA11A S/N - T1110007) Surface Observations

15/JUN/1998 SHARE Barometer (Type Vaisala PA11A S/N - T1110007) Upper Air

02/AUG/2001 UNSHARE Barometer (Type Vaisala PTB330B (General Use) S/N - G2970051) Surface Observations

Evaporation

10/MAR/2018 INSTALL Equipment Reset Device (Type Watchdog Automatic Evaporation Pan S/N - NONE) Surface Observations

01/JAN/1967 INSTALL Evaporation Pan (Type Class A S/N - Unknown) Surface Observations

25/NOV/2016 INSTALL Evaporation Pan (Type SS Class A Automatic S/N - NONE) Surface Observations

02/FEB/2017 REMOVE Evaporation Pan (Type Class A S/N - Unknown) Surface Observations

Rainfall

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Current Status:							Still open
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Station Equipment History (continued)

Equipment Install/Remove(Continued)

01/APR/1953 INSTALL Pluviograph (Type Unknown S/N - Unknown) Rainfall Intensity
06/FEB/1997 REMOVE Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
01/APR/1973 REPLACE Pluviograph (Now Dines syphoning S/N - Unknown) Rainfall Intensity
01/JUN/1944 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
06/FEB/1997 INSTALL Raingauge (Type HS TB3A-0.2 S/N - 96 - 197) Rainfall Intensity
06/FEB/1997 INSTALL Raingauge (Type HS TB3A-0.2 S/N - 96 - 197) Surface Observations
25/NOV/2016 INSTALL Raingauge (Type HS-TB3/0.1/P S/N - 00170) Surface Observations
07/FEB/1991 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Surface Observations
02/FEB/2017 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations
09/JUL/2019 REMOVE Raingauge (Type Rimco 7499 TBRG S/N - 88774) Rainfall Intensity
02/AUG/2001 REMOVE Raingauge (Type Rimco 7499 TBRG S/N - 88774) Surface Observations
18/MAY/2021 REMOVE Raingauge (Type Rimco 7499 TBRG S/N - 88774) Surface Observations
06/FEB/1997 REMOVE Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Surface Observations
27/MAR/2002 REPLACE Raingauge (Now 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations
03/FEB/1999 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-197) Rainfall Intensity
03/FEB/1999 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-197) Surface Observations
26/JUL/1999 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-893) Rainfall Intensity
01/FEB/1999 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-893) Rainfall Intensity
26/JUL/1999 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-893) Surface Observations
01/FEB/1999 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-893) Surface Observations
24/MAR/2015 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 88774) Rainfall Intensity
24/MAR/2015 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 88774) Surface Observations
29/APR/2003 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 050) Rainfall Intensity
29/APR/2003 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 050) Surface Observations
14/FEB/2000 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 118) Rainfall Intensity
14/FEB/2000 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 118) Surface Observations
06/SEP/2001 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 294) Rainfall Intensity
06/SEP/2001 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 294) Surface Observations
24/MAY/2002 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 82479) Rainfall Intensity
24/MAY/2002 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 82479) Surface Observations
03/AUG/2001 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96 - 197) Surface Observations
03/AUG/2001 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96-197) Surface Observations
03/AUG/2001 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96-893) Surface Observations
03/AUG/2001 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96-893) Surface Observations
03/AUG/2001 SHARE Raingauge (Type Rimco 7499 TBRG S/N - 88774) Surface Observations
03/AUG/2001 SHARE Raingauge (Type Rimco TBRG (type unspecified) S/N - 050) Surface Observations
03/AUG/2001 SHARE Raingauge (Type Rimco TBRG (type unspecified) S/N - 118) Surface Observations
03/AUG/2001 SHARE Raingauge (Type Rimco TBRG (type unspecified) S/N - 294) Surface Observations
03/AUG/2001 SHARE Raingauge (Type Rimco TBRG (type unspecified) S/N - 82479) Surface Observations

River Height (No Electronic History)

Solar Radiation (No Electronic History)

Solar Radiation (Direct) (No Electronic History)

Turbidity (No Electronic History)

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All History

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

Sea Water Level (No Electronic History)

Sea Water Temperature

25/NOV/2016 INSTALL Temperature Probe - Water (Type TEMP CONTROLS TCBMP02A S/N - Unknown) Surface Observations
10/MAR/2018 REPLACE Temperature Probe - Water (Now TEMP CONTROLS TCBMP02A S/N - Unknown) Surface Observations

Wind Speed

07/FEB/1991 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 64454) Surface Observations
15/JUN/1998 INSTALL Anemometer (Type Vaisala Cups WAA151 S/N - S41514) Upper Air
15/JUN/1998 INSTALL Anemometer (Type Vaisala Vane WAV151 S/N - S42226) Upper Air
07/FEB/1991 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
15/JUN/1998 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
01/JAN/1967 INSTALL Wind Run Anemometer (Type Munro S/N - CBM562) Surface Observations
02/AUG/2001 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - 64454) Surface Observations
03/AUG/2001 REMOVE Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
02/FEB/2017 REMOVE Wind Run Anemometer (Type Munro S/N - CBM562) Surface Observations
03/SEP/2013 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 103644) Surface Observations
03/SEP/2013 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 103644) Upper Air
03/SEP/2013 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 103634) Surface Observations
03/SEP/2013 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 103634) Upper Air
26/SEP/2011 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - T39640) Surface Observations
26/SEP/2011 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - T39640) Upper Air
27/MAR/2012 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - V16335) Surface Observations
27/MAR/2012 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - V16335) Upper Air
03/AUG/2001 SHARE Anemometer (Type Vaisala Cups WAA151 S/N - S41514) Surface Observations
03/AUG/2001 SHARE Anemometer (Type Vaisala Cups WAA151 S/N - T39640) Surface Observations
03/AUG/2001 SHARE Anemometer (Type Vaisala Vane WAV151 S/N - S42226) Surface Observations
03/AUG/2001 SHARE Anemometer (Type Vaisala Vane WAV151 S/N - V16335) Surface Observations

Air Temperature

13/SEP/2016 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 407076013) Surface Observations
13/SEP/2016 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 407076013) Upper Air
15/JUN/1998 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 0411) Upper Air
07/FEB/1991 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 411) Surface Observations
02/AUG/2001 REMOVE Temperature Probe - Dry Bulb (Type Rosemount S/N - 411) Surface Observations
22/JAN/2008 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - 0174) Surface Observations
22/JAN/2008 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - 0174) Upper Air
19/JUL/2006 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - 0214) Surface Observations
19/JUL/2006 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - 0214) Upper Air
03/AUG/2001 SHARE Temperature Probe - Dry Bulb (Type Rosemount S/N - 0214) Surface Observations
03/AUG/2001 SHARE Temperature Probe - Dry Bulb (Type Rosemount S/N - 0411) Surface Observations
01/APR/1973 INSTALL Thermograph (Type Fielden S/N - Unknown) Surface Observations
07/FEB/1991 REMOVE Thermograph (Type Fielden S/N - Unknown) Surface Observations
01/MAY/1950 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - CBM3993) Surface Observations
03/MAY/2016 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - CBM3993) Surface Observations
28/APR/2016 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - CBM3993) Surface Observations

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

02/FEB/2017 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - CBM3993) 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
17/FEB/2003 - 03/APR/2021	Cloud Height	0
13/SEP/2016 - 03/APR/2021	Humidity	0
17/JUN/1998 - 19/JUN/2009	Pressure Trend	0
17/JUN/1998 - 20/FEB/2013	Lightning	2
10/JUL/1996 - 03/APR/2021	Wind Direction	0
10/JUL/1996 - 13/SEP/2016	Wet Bulb Temperature	1
17/JUN/1998 - 07/SEP/2012	Maximum Temperature	0
17/JUN/1998 - 07/SEP/2012	Soil Temperature 10cm	1
17/JUN/1998 - 07/SEP/2012	Soil Temperature 20cm	1
17/JUN/1998 - 07/SEP/2012	Soil Temperature 50cm	0
17/JUN/1998 - 07/SEP/2012	Soil Temperature 100cm	0
17/JUN/1998 - 07/SEP/2012	Wind Run	0
17/JUN/1998 - 24/AUG/2014	Minimum Temperature	0
17/JUN/1998 - 24/AUG/2014	Terrestrial Minimum Temperature	0
03/AUG/2001 - 03/APR/2021	Visibility	3
10/JUL/1996 - 03/APR/2021	Pressure	2
15/MAY/2000 - 18/JUL/2021	Evaporation	0
06/FEB/1997 - 03/APR/2021	Rainfall	11
10/JUL/1996 - 03/APR/2021	Wind Speed	0
10/JUL/1996 - 03/APR/2021	Air Temperature	1

Station Detail Changes

09/MAY/2006 CLASSIFICATION AWS Funding - Aviation Funded Assets (AVAF)
12/OCT/2020 CLASSIFICATION AWS Priority 2 - Important (SLP2-AWS)
01/JUL/2011 CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT)
01/JUL/1998 CLASSIFICATION Autosonde (RSA)
26/JUN/2002 CLASSIFICATION CLIMAT Stations (CLC)
26/JUN/2002 CLASSIFICATION CLIMAT TEMP Stations (CLT)
05/MAR/2015 CLASSIFICATION Category C (TAF C)
09/MAY/2006 CLASSIFICATION Category D (TAF D) ENDED 05-03-2015
10/JAN/2011 CLASSIFICATION Critical (ASOSCRIT)
01/MAY/1997 CLASSIFICATION GCOS Surface Network (GSN)
01/JUL/2018 CLASSIFICATION HQ EVAPORATION (HQEVAP)
01/JUL/1998 CLASSIFICATION Information and Observations (MIO)

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Extended Climatological Station Metadata
All History

Station:	MEEKATHARRA AIRPORT		Location:	MEEKATHARRA AIRPORT		State:	WA
Bureau No.:	007045	WMO No.:	94430	Aviation ID:	YMEK	Opened:	01 Jan 1944
Latitude:	-26.6136	Longitude:	118.5372	Elevation:	517 m	Barometer Elev:	517.9 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

27/SEP/2021 CLASSIFICATION Mastered in EAMS (EAMS)
21/MAR/2016 CLASSIFICATION NOT Processed by ASOS (NPBA)
01/MAY/1989 CLASSIFICATION National Benchmark Network for Agrometeorology (NBNA)
01/JUL/2017 CLASSIFICATION Observing Operations Hub - Perth (OOH-P)
01/SEP/1992 CLASSIFICATION Reference Climate Stations (RCS) ENDED 30-06-2011
14/FEB/1997 CLASSIFICATION Regional Basic Synoptic Network (RBSN)
10/JUN/2014 CLASSIFICATION Standard Aviation or Defence (AVSTD) ENDED 16-10-2020
19/JUN/2009 OBJECT Document/007045090619tnt
30/JUN/2011 OBJECT Document/007045100630tnt
29/APR/2019 OBJECT Document/ASOS CONFIGURATION
16/MAR/2016 OBJECT Document/AWS SITE AUDIT
12/DEC/2017 OBJECT Document/CEILOMETER STATUS
09/MAY/2014 OBJECT Document/CEILOMETER STATUS
19/MAY/2017 OBJECT Document/CEILOMETER STATUS
19/SEP/2012 OBJECT Document/CEILOMETER STATUS
03/NOV/2014 OBJECT Document/CEILOMETER STATUS
21/SEP/2015 OBJECT Document/CEILOMETER STATUS
29/AUG/2018 OBJECT Document/CEILOMETER STATUS
10/FEB/2017 OBJECT Document/CEILOMETER STATUS
10/MAR/2020 OBJECT Document/CEILOMETER STATUS
09/APR/2013 OBJECT Document/SKYLINE DATA
10/JUL/2008 OBJECT Document/SKYLINE DATA
14/MAY/2003 OBJECT Document/SKYLINE DATA
01/MAY/2018 OBJECT Document/SKYLINE DATA
12/DEC/2017 OBJECT Document/VISIBILITY METER STATUS
09/MAY/2014 OBJECT Document/VISIBILITY METER STATUS
19/SEP/2012 OBJECT Document/VISIBILITY METER STATUS
03/NOV/2014 OBJECT Document/VISIBILITY METER STATUS
21/SEP/2015 OBJECT Document/VISIBILITY METER STATUS
29/AUG/2018 OBJECT Document/VISIBILITY METER STATUS
10/FEB/2017 OBJECT Document/VISIBILITY METER STATUS
10/MAR/2020 OBJECT Document/VISIBILITY METER STATUS
01/JAN/1944 STATION - (nondb seeding) Opened
01/JAN/1944 STATION - (nondb seeding) aero_ht Changed to 522.1
01/JAN/1944 STATION - (nondb seeding) bar_ht Changed to 519
01/JAN/1944 STATION - (nondb seeding) bar_ht_deriv Changed to SURVEY
01/JAN/1944 STATION - (nondb seeding) latitude Changed to -26.6108
01/JAN/1944 STATION - (nondb seeding) longitude Changed to 118.5444
01/JAN/1944 STATION - (nondb seeding) name Changed to MEEKATHARRA AIRPORT
01/JAN/1944 STATION - (nondb seeding) stn_ht Changed to 517
01/JAN/1944 STATION - (nondb seeding) stn_ht_deriv Changed to SURVEY
01/JAN/1944 STATION - (nondb seeding) wmo_num Changed to 94430
01/JAN/1944 STATION aviation_id Changed to YMEK

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Extended Climatological Station Metadata
All History

Station:	MEEKATHARRA AIRPORT		Location:	MEEKATHARRA AIRPORT		State:	WA
Bureau No.:	007045	WMO No.:	94430	Aviation ID:	YMEK	Opened:	01 Jan 1944
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Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

14/DEC/2017 STATION bar_ht Changed to 517.9
14/DEC/2017 STATION bar_ht_deriv Changed to SURVEY
24/NOV/1999 STATION latitude Changed to -26.6133GPSd at Inspection
24/MAY/2002 STATION latitude Changed to -26.6136GPS using WGS84
24/NOV/1999 STATION latlon_deriv Changed to GPS
24/MAY/2002 STATION latlon_deriv Changed to GPS
24/NOV/1999 STATION latlon_error Changed to
24/MAY/2002 STATION latlon_error Changed to
24/MAY/2002 STATION longitude Changed to 118.5372GPS using WGS84
24/NOV/1999 STATION longitude Changed to 118.5372GPSd at Inspection
17/JUN/1998 STATION lu_0_100m Changed to Airport
17/JUN/1998 STATION lu_100m_1km Changed to Open farmland, grassland or tundra
17/JUN/1998 STATION lu_1km_10km Changed to Open farmland, grassland or tundra
17/JUN/1998 STATION soil_type Changed to red soil
19/JUN/2009 STATION surface_type Changed to bare ground
17/JUN/1998 STATION surface_type Changed to partly covered by grass

System Changes

01/JAN/1974 SYSTEM Infrastructure Commenced
09/JUL/2019 SYSTEM Rainfall Intensity Ceased
01/APR/1953 SYSTEM Rainfall Intensity Commenced
12/MAR/2019 SYSTEM Reference Standards Ceased
01/JAN/2011 SYSTEM Reference Standards Commenced
01/JUN/1944 SYSTEM Surface Observations Commenced
01/JAN/1974 SYSTEM Upper Air Commenced

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Notes on these metadata

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

Reliability of the metadata

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

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

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

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

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

Station Number

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

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

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Notes on these metadata

Network Classification

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

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

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Notes on these metadata

Network Classification Continued....

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

Station Purpose

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

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

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

Station Observation Program Summary

Surface Observations

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

Set a)

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

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Notes on these metadata

Surface observations continued....

Set b)

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

Current Station Equipment Summary

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

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

Station Equipment History

Equipment Install/Remove

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

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

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

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

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

Unshare - The instrument is no longer shared between systems

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Notes on these metadata

Calibration

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

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

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

Station Detail Changes

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

- STATION

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

Station position

- Latitude and longitude

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

- Height

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

Heights which may appear in these metadata are:

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

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Notes on these metadata

- Land Use

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

Defined Land use Types.

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

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

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

Defined Soil Type (At Enclosure).

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

Surface Type (At Enclosure).

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

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