



Basic Climatological Station Metadata
Current status

Metadata compiled: 27 JUL 2025

Station: SYDNEY AIRPORT AMO

Bureau of Meteorology station number: 066037
Bureau of Meteorology district name: Metropolitan (E)
State: NSW

World Meteorological Organization number: 94767
Identification: YSSY

Network Classification: CLIMAT Stations, Regional Basic Synoptic Network
Station purpose: Synoptic, Upper Air, Aeronautical
Automatic Weather Station: Almos



Current Station Location				
Latitude	Decimal	-33.9465	Hour Min Sec	33°56'47"S
Longitude	Decimal	151.1731	Hour Min Sec	151°10'23"E
Station Height	6 m	Barometer Height	5 m	
Method of station geographic positioning			SURVEY	

Year opened: 1929
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.

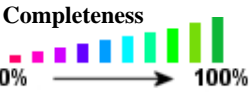


Basic Climatological Station Metadata
Current status

Station: SYDNEY AIRPORT AMO		Location: SYDNEY AIRPORT AMO		State: NSW	
Bureau No.: 066037	WMO No.: 94767	Aviation ID: YSSY	Opened: 01 Jan 1929	Current Status: Still open	
Latitude: -33.9465	Longitude: 151.1731	Elevation: 6 m	Barometer Elev: 5 m	Metadata compiled: 27 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 1974	JUN 2025	98.9	200	0
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	JAN 1974	JUN 2011	98.0	266	0
GROUND MINIMUM TEMPERATURE	AUG 1995	JUN 2025	98.7	134	0
MAXIMUM AIR TEMPERATURE	APR 1939	JUN 2025	99.9	24	0
MAXIMUM WIND GUST SPEED	APR 1939	JUN 2025	99.0	301	0
SUNSHINE HOURS	DEC 1976	JUN 2025	98.3	73	7
WIND RUN ABOVE 10 FEET	FEB 1995	JUN 2025	97.3	293	0
WIND RUN BELOW 10 FEET	JAN 1974	JUN 2025	99.3	128	0
RAINFALL	SEP 1929	JUL 2025	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	APR 1939	JUN 2025	99.1	10.0	53	0
DEW POINT	MAY 1939	JUN 2025	86.5	10.6	6	136
MEAN SEA LEVEL PRESSURE	JUL 1951	JUN 2025	99.8	10.7	0	0
SOIL TEMPERATURE - 10cm	JUL 2001	JAN 2023	97.9	2.0	50	0
TOTAL CLOUD AMOUNT	APR 1939	JUN 2025	98.9	7.7	54	0
WIND SPEED	APR 1939	JUN 2025	99.1	10.0	55	0
UPPER AIR TEMPERATURE	JUL 1976	JUN 2025	85.9	2.0	351	1
UPPER AIR WIND SPEED	JAN 1946	JUN 2025	84.6	3.7	1225	17

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RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	JUL 1962	JUN 2016	86.7	1027	52

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	DEC 1998	JUL 2025	98.2	1414.3	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	OCT 1948	JUL 2025	101.7	48.8	N/A	244

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	Jul 1998	Jan 2019	N/A	3.0	203	52
Wind, temperature and pressure flights	May 1991	May 2019	N/A	1.8	323	1

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

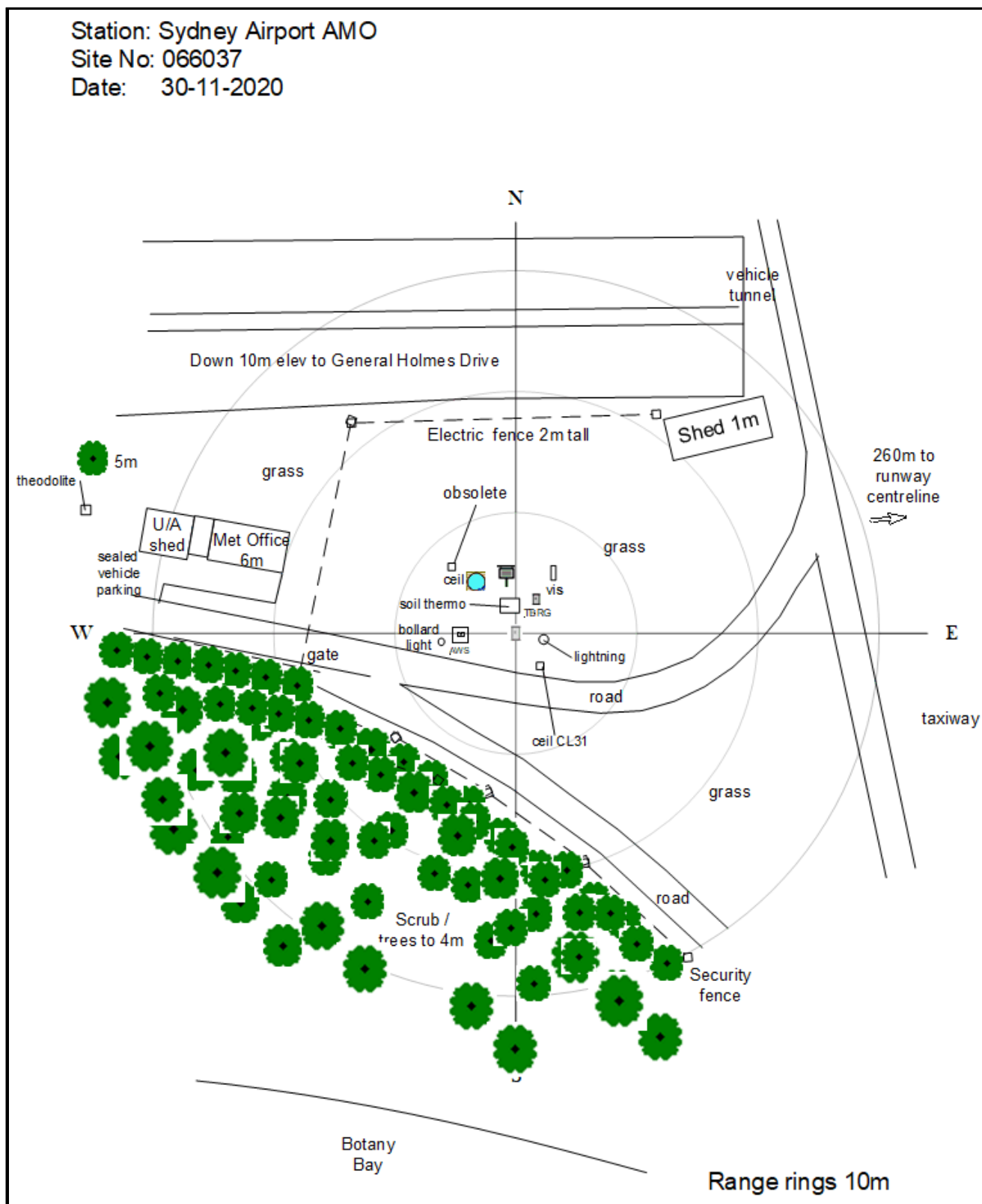
- Maximum air temperature
- Dew point
- 10cm soil temperature
- Dew point
- Evaporimeter - max water temp
- Total cloud amount
- Sea state

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30/11/2020(most recent)



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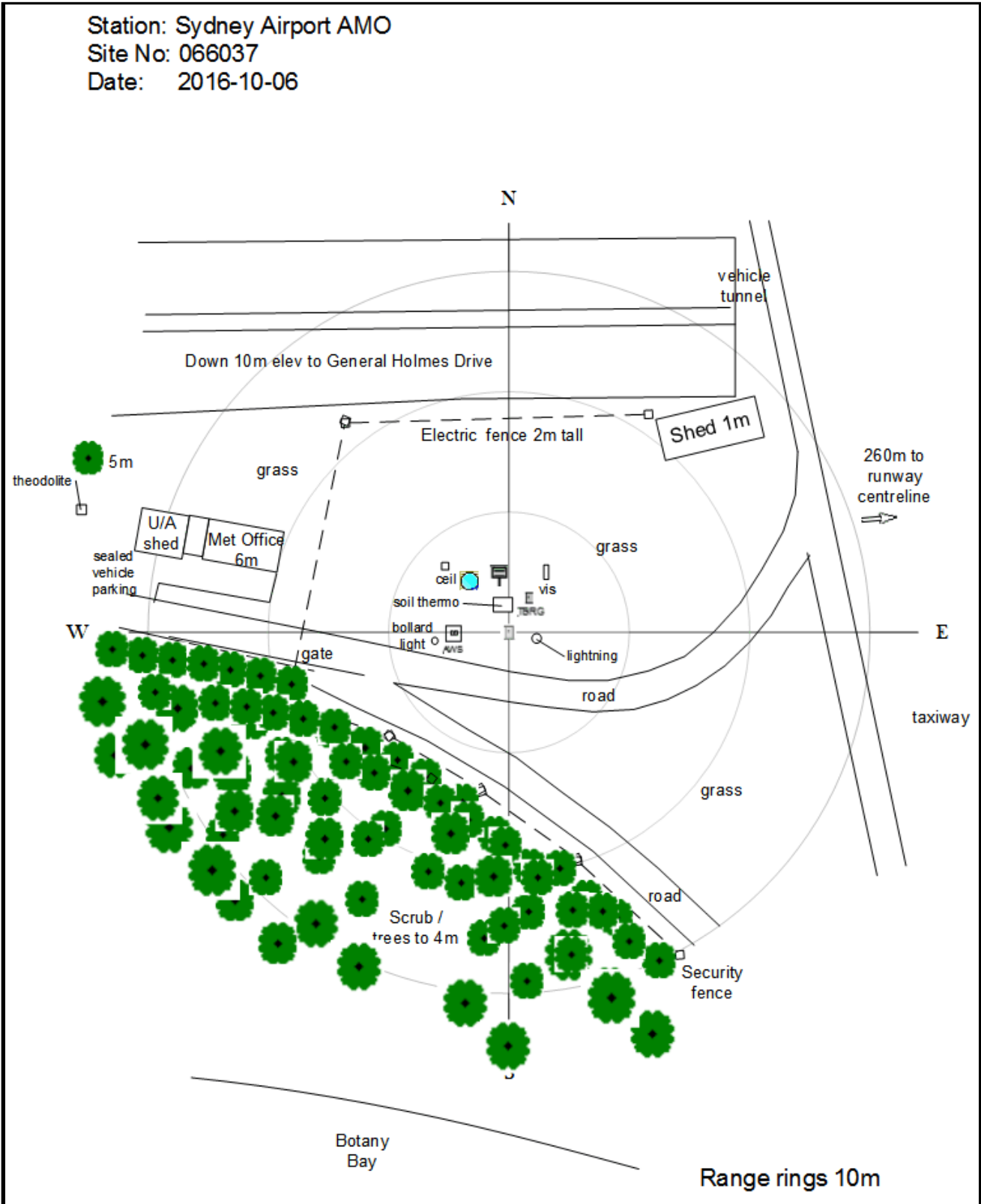
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Extended Climatological Station Metadata
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Instrument Location and Surrounding Features
06/10/2016



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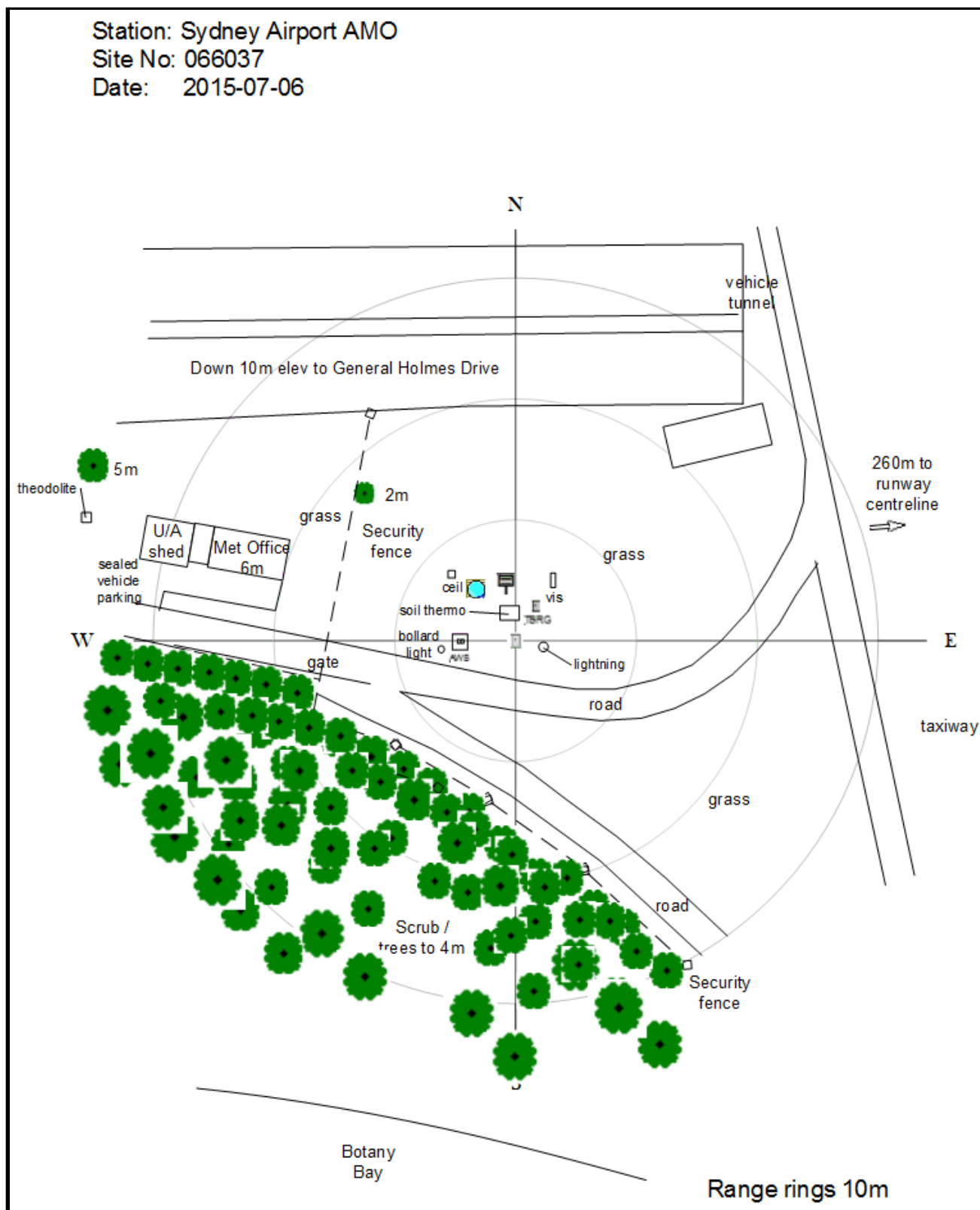
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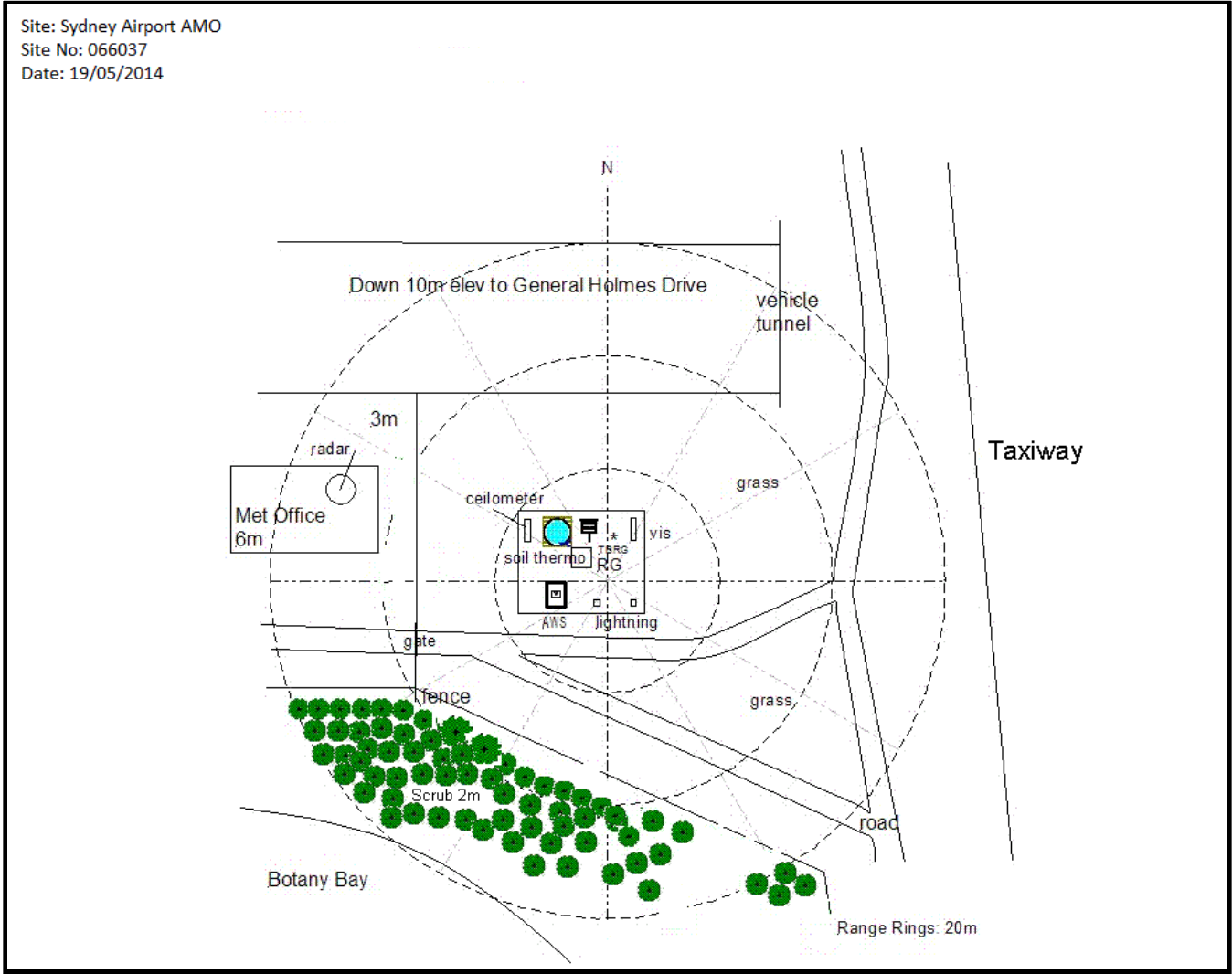
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Extended Climatological Station Metadata
All History

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Instrument Location and Surrounding Features
19/05/2014



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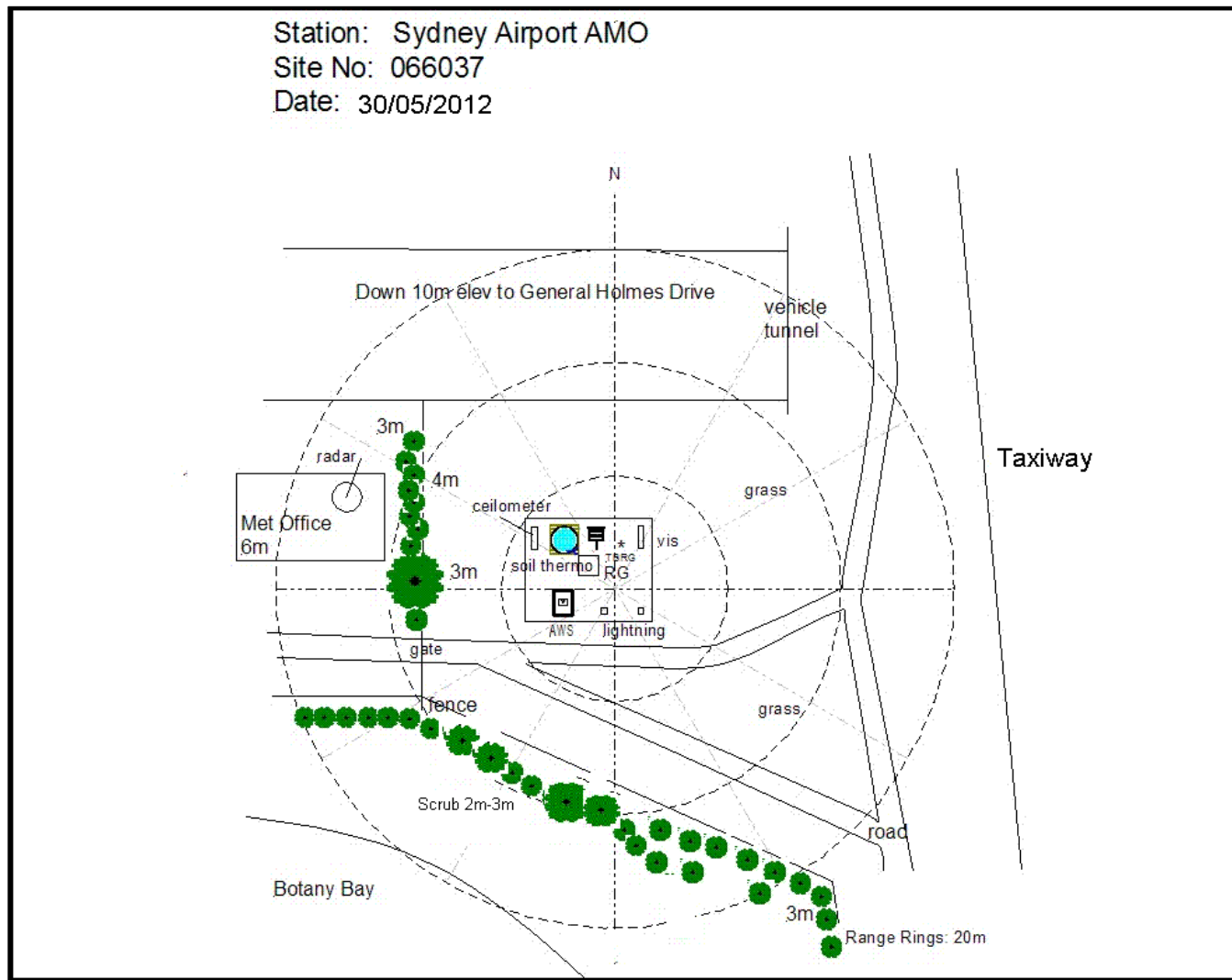
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

30/05/2012



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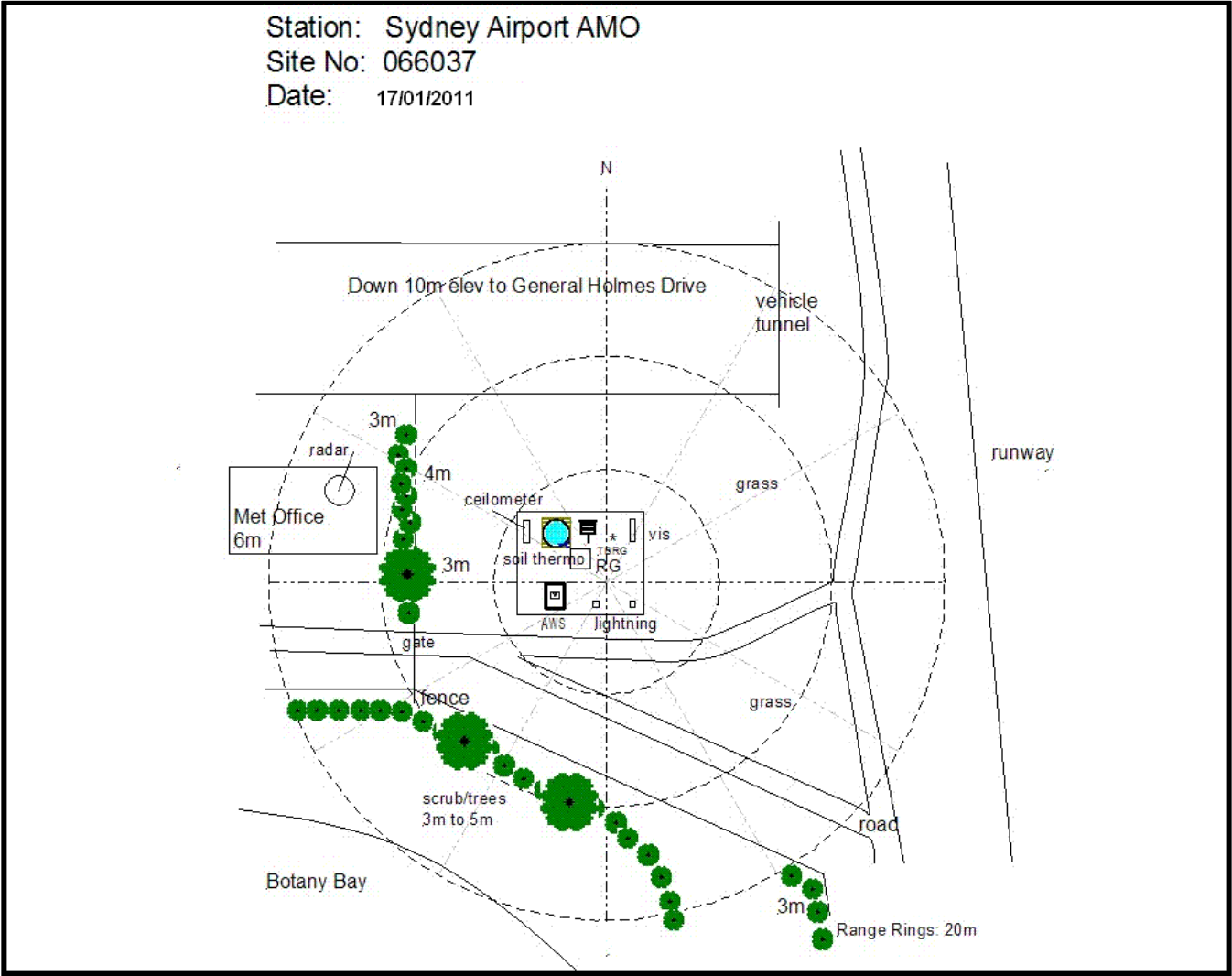
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Instrument Location and Surrounding Features
17/01/2011



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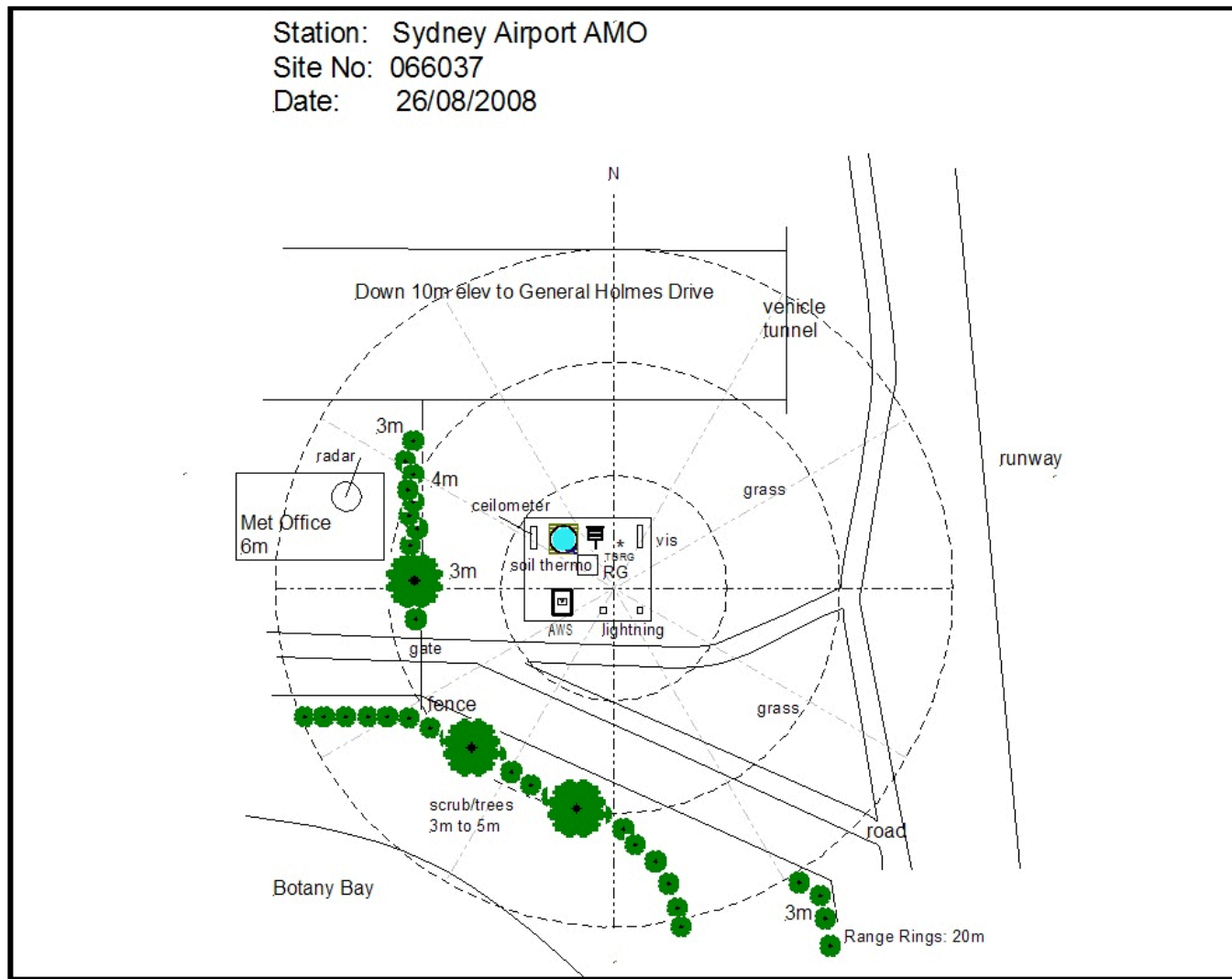
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Instrument Location and Surrounding Features

26/08/2008



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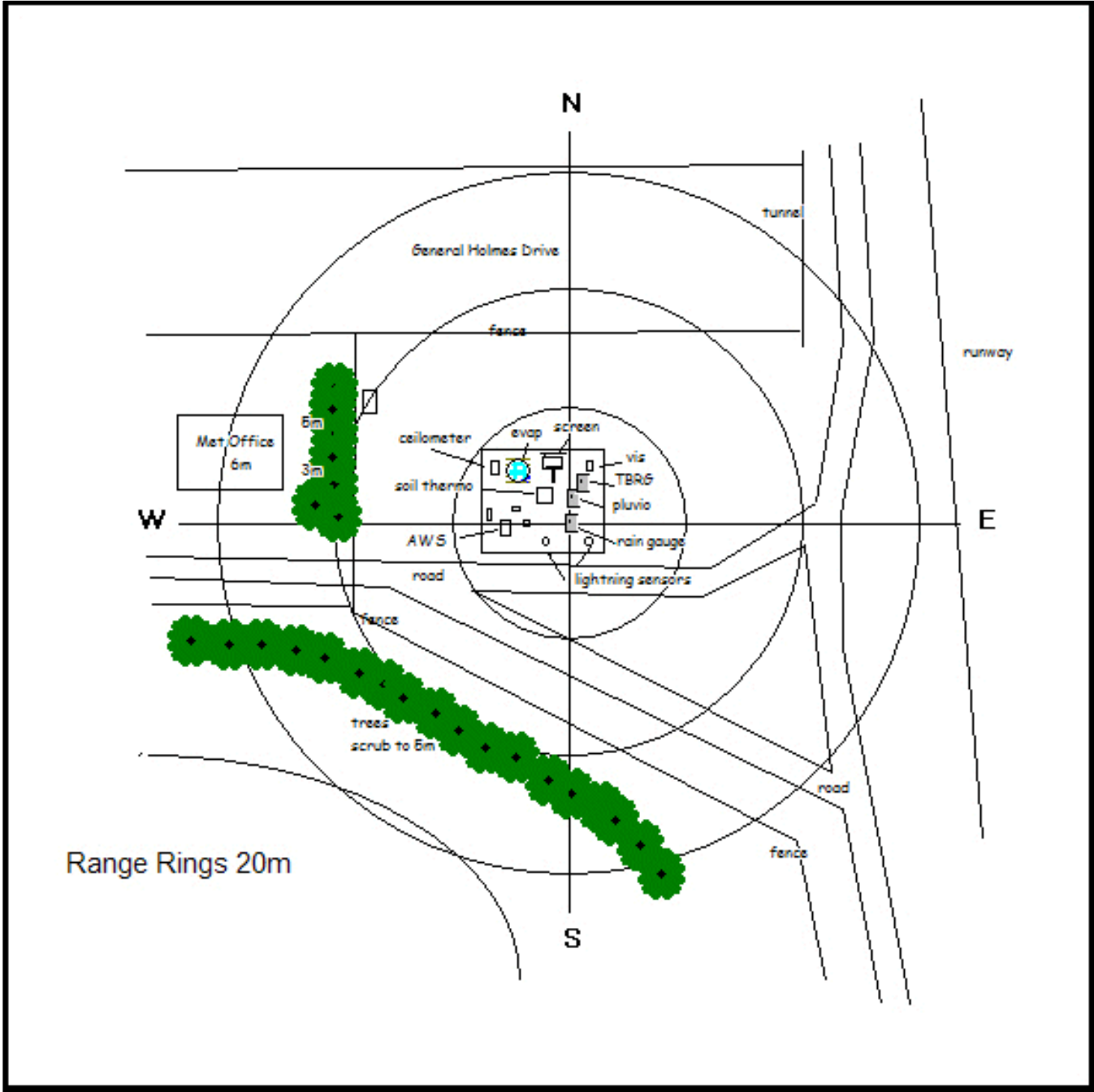
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Instrument Location and Surrounding Features
25/06/2007



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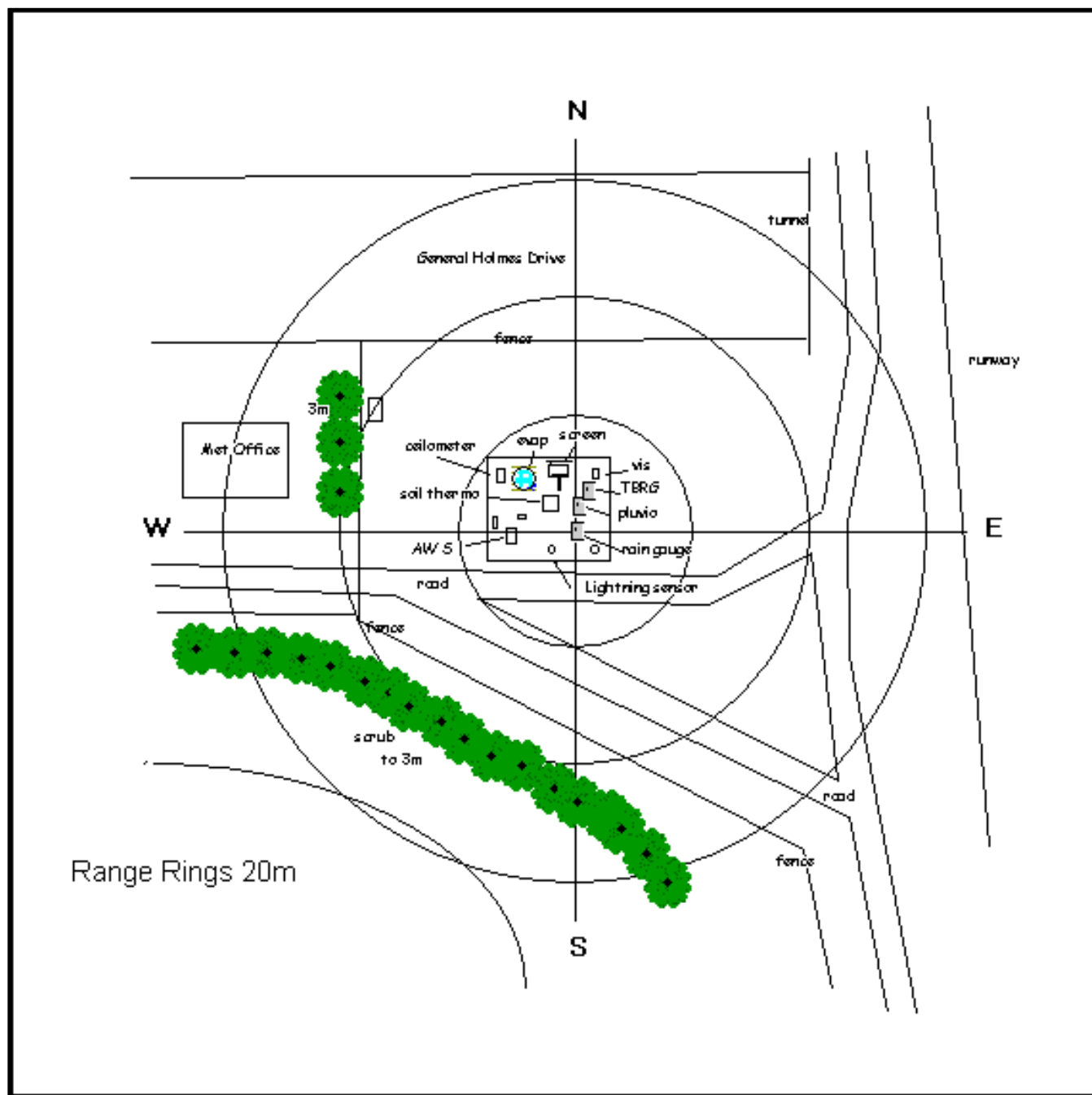
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

17/09/2004



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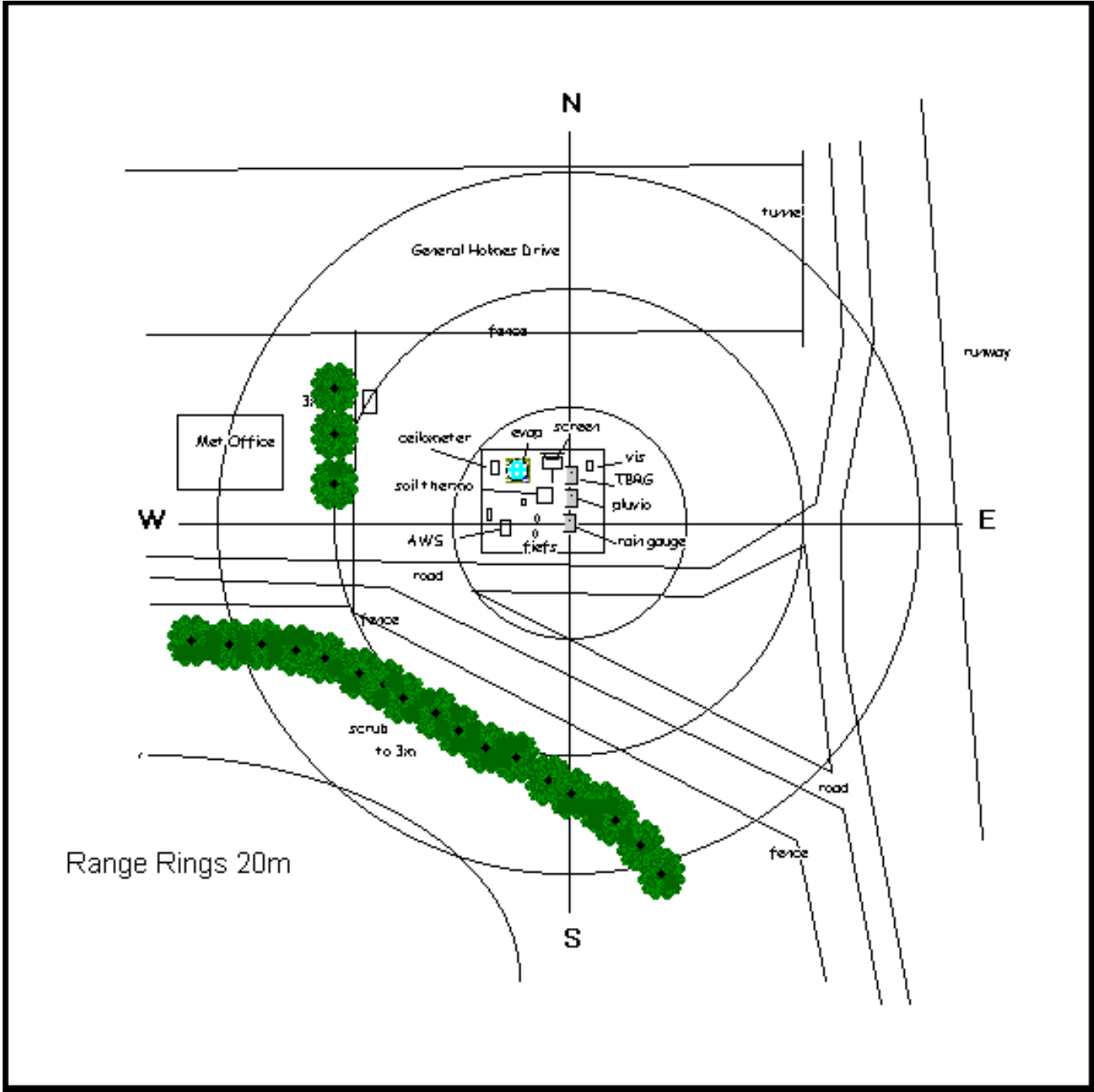
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Instrument Location and Surrounding Features
13/08/2002



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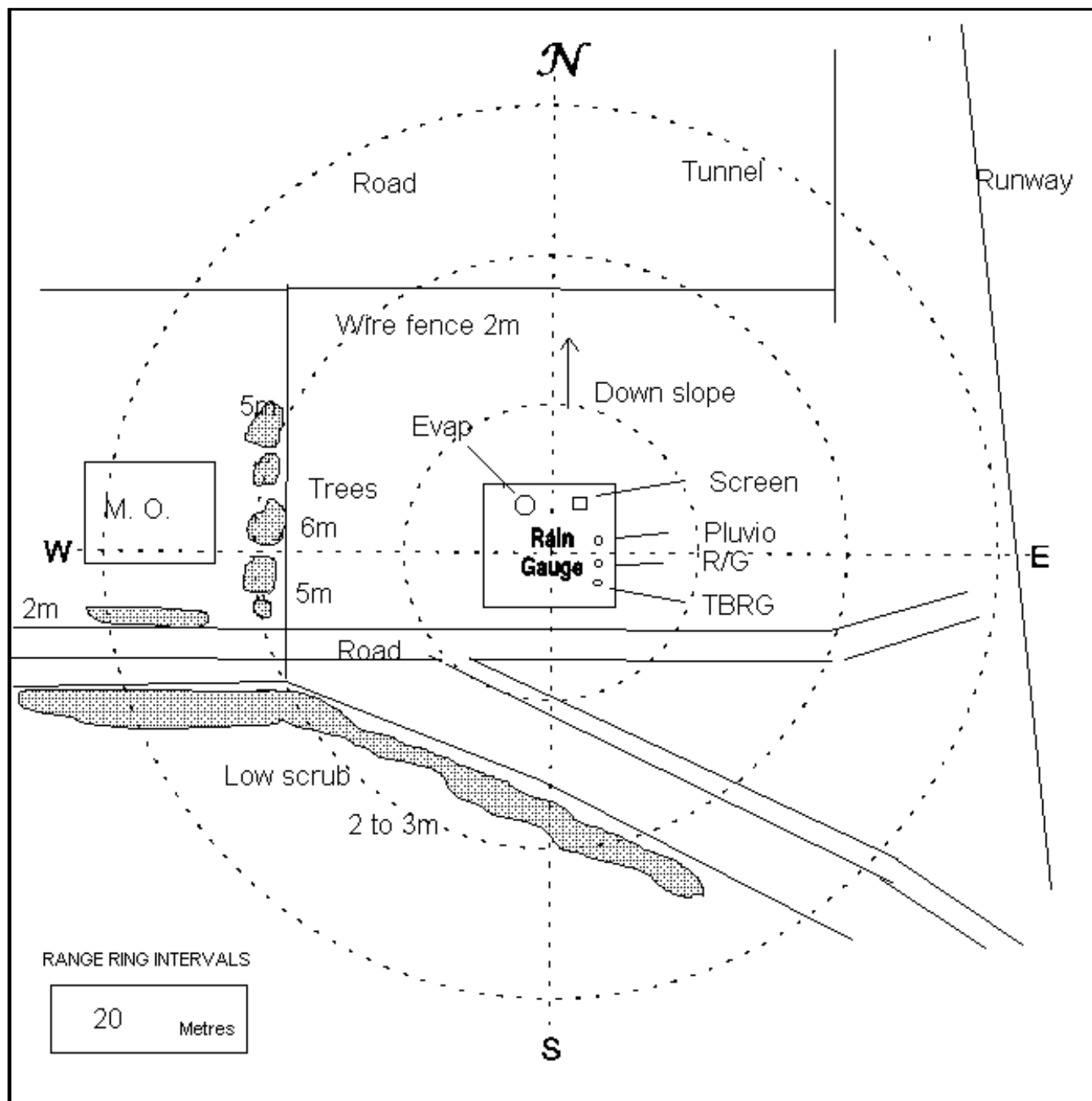
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Instrument Location and Surrounding Features

09/12/1998



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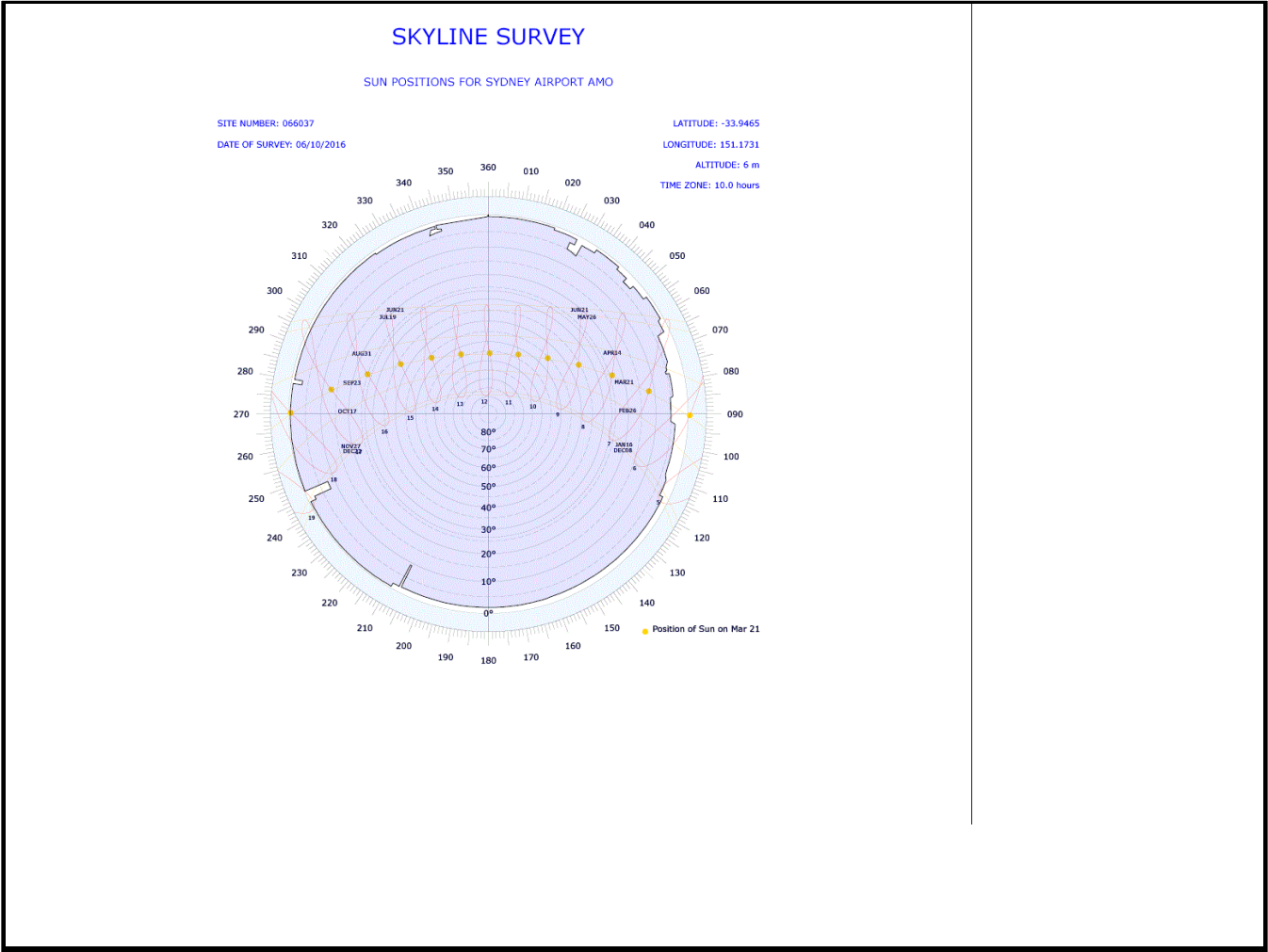
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Skyline Diagram
06/10/2016(most recent)



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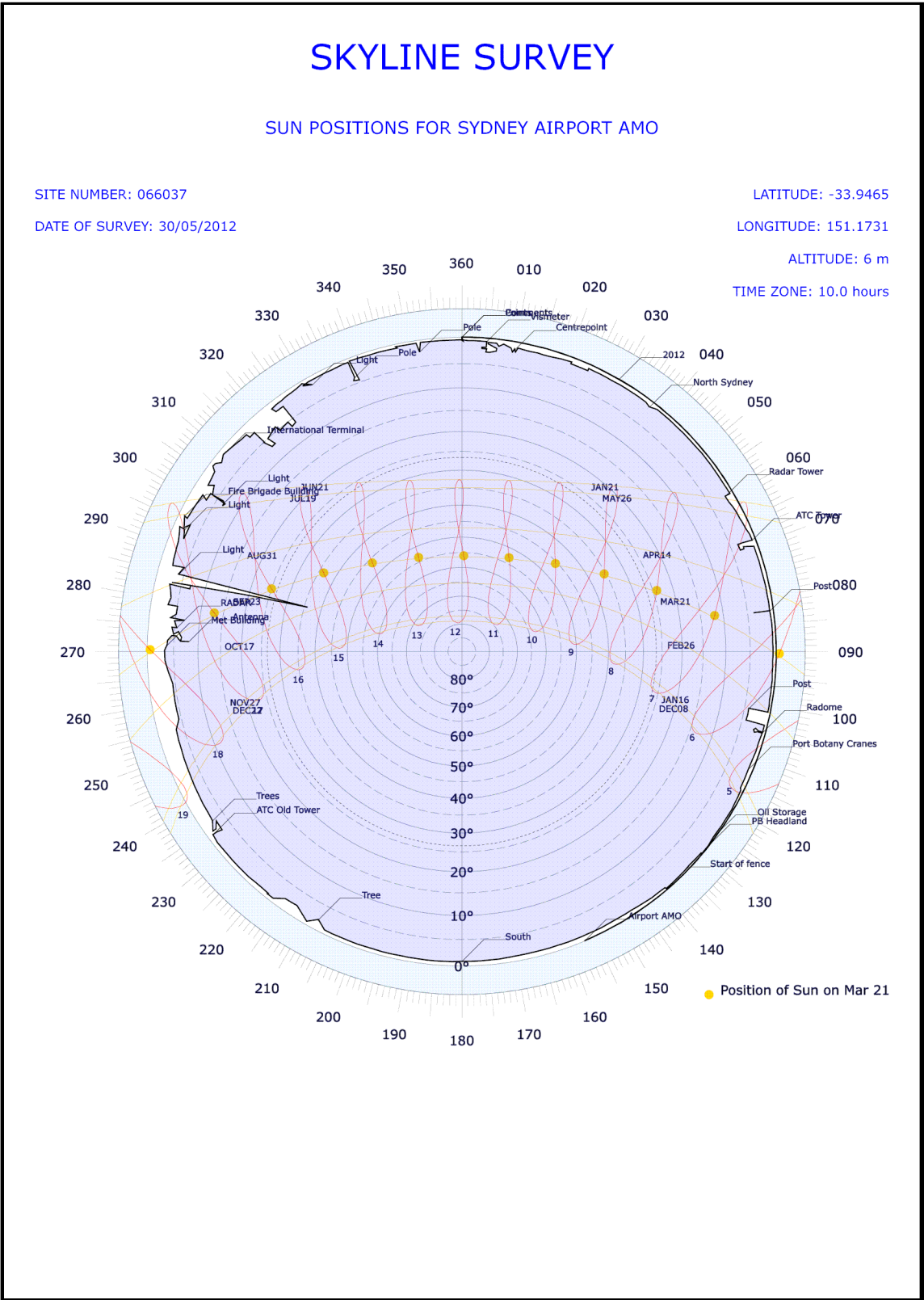
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Skyline Diagram
30/05/2012



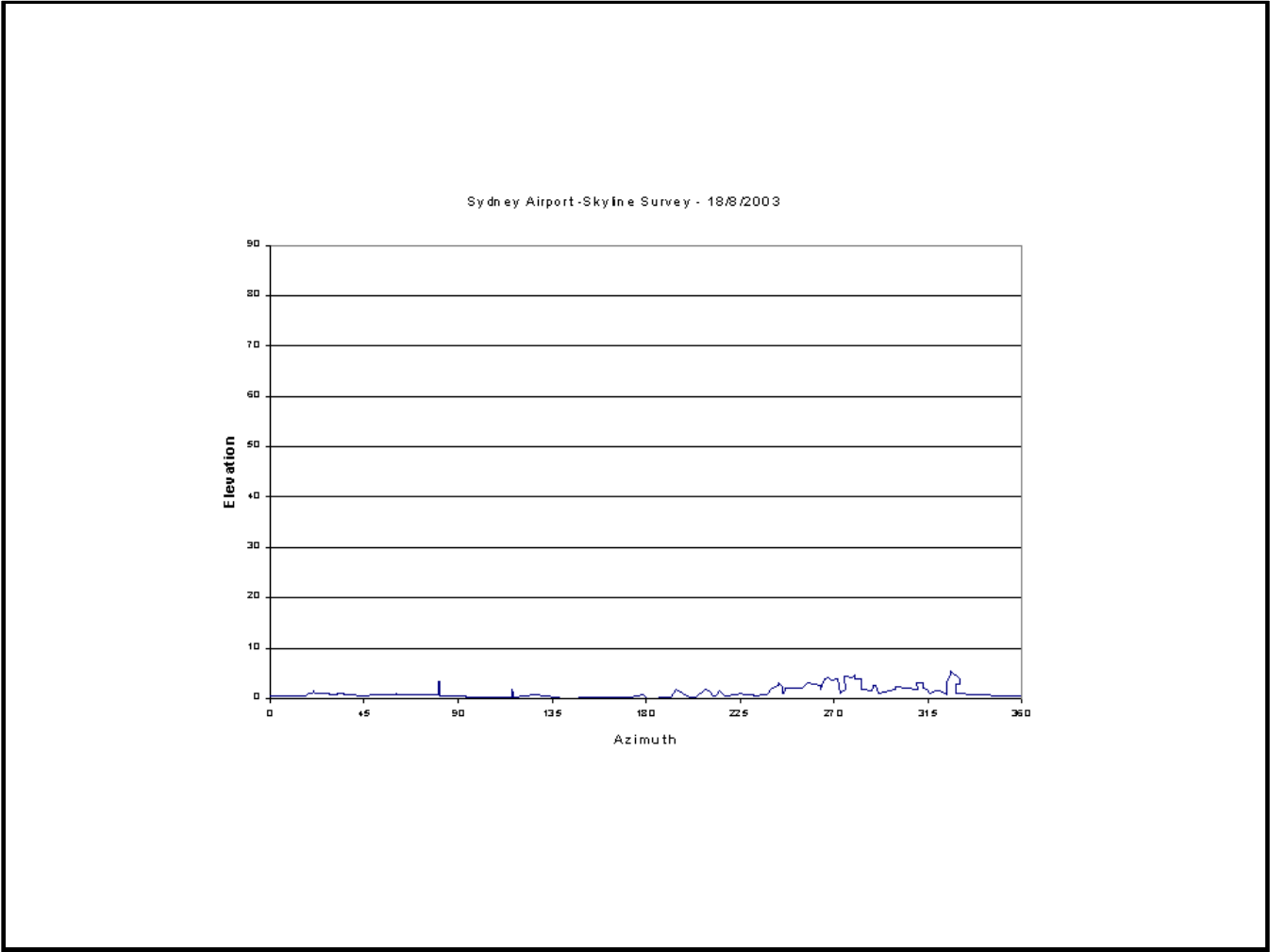
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Skyline Diagram
18/08/2003



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Station Observation Program Summary (Surface Observations) 27 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 01/09/1976 to 01/08/2012

Flight type	Time UTC	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Wind & Temp.	00:00	-	-	-	-	-	-	-
Wind & Temp.	06:00	Y	Y	Y	Y	Y	Y	Y
Wind & Temp.	12:00	-	-	-	-	-	-	-
Wind & Temp.	18:00	Y	Y	Y	Y	Y	Y	Y
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 01/08/2012 to 31/08/2014

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	Y	Y	Y	Y	Y	Y	Y
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 01/09/2014 (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	Y	Y	Y	Y	Y	Y	Y
Wind	00:00	-	-	-	-	-	-	-
Wind	06:00	-	-	-	-	-	-	-
Wind	12:00	-	-	-	-	-	-	-
Wind	18:00	Y	Y	Y	Y	Y	Y	Y

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Current Status:							Still open
Metadata compiled:							27 JUL 2025

Station Equipment History

Equipment Install/Remove

Cloud Height

14/MAR/1997 INSTALL Ceilometer (Type Vaisala CT12K S/N - 0890118E) Surface Observations
12/MAY/2020 REPLACE Ceilometer (Now Vaisala CL31 S/N - R1940326) Surface Observations
26/JAN/2001 REPLACE Ceilometer (Now Vaisala CT12K S/N - 0890118E) Surface Observations
23/JAN/2008 REPLACE Ceilometer (Now Vaisala CT25K S/N - C04406) Surface Observations
04/FEB/2015 REPLACE Ceilometer (Now Vaisala CT25K S/N - W09414) Surface Observations
01/MAR/1939 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - Unknown) Surface Observations
01/APR/2000 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - Unknown) Surface Observations

Humidity

16/FEB/2017 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 36656004) Surface Observations
24/OCT/2017 REPLACE Humidity Probe (Now Rotronics MP101A-T4-W4W S/N - 1902000/13) Surface Observations
29/JAN/2018 REPLACE Humidity Probe (Now Vaisala HMP45DX S/N - X4150010) Surface Observations
01/JUN/1939 INSTALL Hygrograph (Type Fielden S/N - Unknown) Surface Observations
01/JUL/1994 REMOVE Hygrograph (Type Fielden S/N - Unknown) Surface Observations

Pressure Trend

01/JUL/1951 INSTALL Barograph (Type Weekly S/N - 094) Surface Observations

Lightning

13/MAY/2004 INSTALL Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - Z0850003) Surface Observations
13/MAY/2004 INSTALL Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - Z1040001) Surface Observations
13/JUN/2008 INSTALL Lightning Sensor (Type Vaisla EFM550 (Thunderstorm Electrical Field Mill) S/N - Z0850003) Surface Observations
18/MAY/2020 REMOVE Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - A5020001) Surface Observations
30/JUL/2007 REMOVE Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - Z0850003) Surface Observations
26/NOV/2009 REPLACE Lightning Sensor (Now Vaisala TSS928 (Thunderstorm Sensor) S/N - 22000098) Surface Observations
16/OCT/2012 REPLACE Lightning Sensor (Now Vaisala TSS928 (Thunderstorm Sensor) S/N - A5020001) Surface Observations

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

05/SEP/2003 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 82626) Surface Observations
01/JUL/1994 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
28/APR/2000 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
31/DEC/1973 INSTALL Wind Run Anemometer (Type Synchrotac S/N - 660927160) Surface Observations
12/MAR/2020 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 68403) Surface Observations
03/JAN/2006 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 79931) Surface Observations
12/MAR/2020 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 129608) Surface Observations
05/SEP/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 82672) Surface Observations
03/JAN/2006 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - MK7890921) Surface Observations
24/JUN/2013 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - MK7890921) Surface Observations
28/APR/1999 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - WD:74051 WS:74081) Surface Observations
01/JUN/2009 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 695) Surface Observations
10/SEP/1999 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 807) Surface Observations

Wet Bulb Temperature

01/JUL/1994 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations

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Extended Climatological Station Metadata

All History

Station:	SYDNEY AIRPORT AMO		Location:	SYDNEY AIRPORT AMO		State:	NSW
Bureau No.:	066037	WMO No.:	94767	Aviation ID:	YSSY	Opened:	01 Jan 1929
Latitude:	-33.9465	Longitude:	151.1731	Elevation:	6 m	Barometer Elev:	5 m
Current Status:							Still open
Metadata compiled:							27 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

16/FEB/2017 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 10511) Surface Observations
14/DEC/2011 REPLACE Temperature Probe - Wet Bulb (Now Rosemount S/N - 10511) Surface Observations
01/JUN/1939 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 5420) Surface Observations
06/OCT/2016 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 24150) Surface Observations
14/APR/1999 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M5278) Surface Observations
30/NOV/2020 REPLACE Thermometer, Mercury, Wet Bulb (Now WIKA S/N - 24110) Surface Observations

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

01/JUN/1939 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 2464) Surface Observations
14/APR/1999 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 14799) Surface Observations
24/AUG/2016 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 17463) Surface Observations
19/OCT/2000 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 20888) Surface Observations

Soil Temperature 10cm

01/AUG/1995 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - 2150) Surface Observations
14/APR/1999 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - 9725440) Surface Observations

Soil Temperature 20cm

15/OCT/2012 INSTALL Thermometer, Soil, 20cm (Type Amarol S/N - 00415484) Surface Observations
01/AUG/1995 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - 6880) Surface Observations
15/OCT/2012 REMOVE Thermometer, Soil, 20cm (Type Amarol S/N - 0673886) Surface Observations
05/JAN/2012 REPLACE Thermometer, Soil, 20cm (Now Amarol S/N - 0673886) Surface Observations
20/JAN/2014 REPLACE Thermometer, Soil, 20cm (Now Amarol S/N - 0673887) Surface Observations
05/MAY/2015 REPLACE Thermometer, Soil, 20cm (Now Amarol S/N - 0967149) Surface Observations
22/OCT/2007 REPLACE Thermometer, Soil, 20cm (Now Amarol S/N - 9984014) Surface Observations
14/APR/1999 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 0011824) Surface Observations
07/MAR/2015 REPLACE Thermometer, Soil, 20cm (Now Unknown S/N - CBM1736) Surface Observations

Soil Temperature 50cm (No Electronic History)

Snow Height (No Electronic History)

Soil Temperature 100cm (No Electronic History)

Sunshine Hours

01/DEC/1976 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - 24) Surface Observations

Wind Run

31/DEC/1973 INSTALL Wind Run Anemometer (Type Synchrotac S/N - 660927160) Surface Observations
01/JUN/2009 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 695) Surface Observations
10/SEP/1999 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 807) Surface Observations

Minimum Temperature

26/AUG/2008 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - 23184) Surface Observations
25/JUN/2007 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - 25890) Surface Observations
01/JUN/1939 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - 5306) Surface Observations
25/JUN/2007 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - 23184) Surface Observations
26/AUG/2008 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - 25890) Surface Observations
14/APR/1999 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 17017) Surface Observations
10/MAR/2004 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 23184) Surface Observations

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Extended Climatological Station Metadata
All History

Station:	SYDNEY AIRPORT AMO		Location:	SYDNEY AIRPORT AMO		State:	NSW
Bureau No.:	066037	WMO No.:	94767	Aviation ID:	YSSY	Opened:	01 Jan 1929
Latitude:	-33.9465	Longitude:	151.1731	Elevation:	6 m	Barometer Elev:	5 m
Metadata compiled:							27 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

18/MAY/2014 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 25890) Surface Observations

Terrestrial Minimum Temperature

25/JUN/2007 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - 23184) Surface Observations
26/AUG/2008 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - 25890) Surface Observations
01/AUG/1995 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - 4388) Surface Observations
26/AUG/2008 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - 23184) Surface Observations
25/JUN/2007 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - 25890) Surface Observations
23/JAN/2013 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 17053) Surface Observations
14/APR/1999 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 17303) Surface Observations
01/MAY/2016 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 20791) Surface Observations
19/OCT/2000 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 25890) Surface Observations

Visibility

14/MAR/1997 INSTALL Visibility Meter (Type Vaisala FD12 S/N - N47110) Surface Observations
18/JAN/2000 INSTALL Visibility Meter (Type Vaisala FD12 S/N - T49304) Surface Observations
05/APR/2012 INSTALL Visibility Meter (Type Vaisala FD12 S/N - T49304) Surface Observations
27/MAR/2012 REMOVE Visibility Meter (Type Vaisala FD12 S/N - N47110) Surface Observations
08/JUN/2000 REMOVE Visibility Meter (Type Vaisala FD12 S/N - T49304) 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

01/SEP/1976 INSTALL Radar (Type WF3 S/N - Unknown) Upper Air
01/DEC/1966 INSTALL Radar (Type WF44 S/N - P0005) WeatherWatch
01/DEC/1966 INSTALL Radar Tower (Type Lattice WF44 - 18 ft S/N - Unknown) Infrastructure
01/SEP/2014 REMOVE Radar (Type WF100-4X S/N - 00015) Upper Air
10/MAR/1999 REMOVE Radar (Type WF44 S/N - P0005) WeatherWatch
10/MAR/1999 REMOVE Radar Tower (Type Lattice WF44 - 30 ft S/N - Unknown) Infrastructure
04/FEB/1997 REPLACE Radar (Now WF100-4X S/N - 00015) Upper Air
01/SEP/1969 REPLACE Radar Tower (Now Lattice WF44 - 30 ft S/N - Unknown) Infrastructure

Total Column Ozone Amount (No Electronic History)

Pressure

01/JUL/1951 INSTALL Barometer (Type Kew pattern mercury S/N - 1980) Surface Observations
01/FEB/1992 REPLACE Barometer (Now Vaisala PA11A S/N - 458194) Surface Observations
27/AUG/2002 REPLACE Barometer (Now Vaisala PA11A S/N - 561171) Surface Observations
01/JUL/1994 REPLACE Barometer (Now Vaisala PA11A S/N - 56182) Surface Observations
28/FEB/1997 REPLACE Barometer (Now Vaisala PA11A S/N - 661831) Surface Observations
26/AUG/2008 REPLACE Barometer (Now Vaisala PA11A S/N - R5110005) Surface Observations
01/FEB/2012 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - G2970033) Surface Observations

Evaporation

31/DEC/1973 INSTALL Evaporation Pan (Type Class A S/N - NONE) Surface Observations
29/JUL/2015 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations

Rainfall

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Extended Climatological Station Metadata
All History

Station:	SYDNEY AIRPORT AMO		Location:	SYDNEY AIRPORT AMO		State:	NSW
Bureau No.:	066037	WMO No.:	94767	Aviation ID:	YSSY	Opened:	01 Jan 1929
Latitude:	-33.9465	Longitude:	151.1731	Elevation:	6 m	Barometer Elev:	5 m
Current Status:							Still open
Metadata compiled:							27 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

01/JAN/1960 INSTALL Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
31/DEC/2007 REMOVE Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
01/SEP/1929 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
29/OCT/2013 INSTALL Raingauge (Type HS-TB3/0.2/P S/N - 00001) Surface Observations
01/JUL/1994 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - 848471) Surface Observations
14/NOV/2014 REMOVE Raingauge (Type HS-TB3/0.2/P S/N - 00001) Surface Observations
09/NOV/1999 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 77123) Rainfall Intensity
09/NOV/1999 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 77123) Surface Observations
02/DEC/1996 SHARE Raingauge (Type Rimco 7499 TBRG S/N - 848471) Rainfall Intensity
30/NOV/2020 UNSHARE Raingauge (Type Rimco 7499 TBRG S/N - 77123) Rainfall Intensity

River Height (No Electronic History)

Solar Radiation (No Electronic History)

Solar Radiation (Direct) (No Electronic History)

Turbidity (No Electronic History)

Sea Water Level (No Electronic History)

Sea Water Temperature (No Electronic History)

Wind Speed

05/SEP/2003 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 82626) Surface Observations
01/JUL/1994 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
28/APR/2000 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
31/DEC/1973 INSTALL Wind Run Anemometer (Type Synchrotac S/N - 660927160) Surface Observations
12/MAR/2020 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 68403) Surface Observations
03/JAN/2006 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 79931) Surface Observations
12/MAR/2020 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 129608) Surface Observations
05/SEP/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 82672) Surface Observations
03/JAN/2006 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - MK7890921) Surface Observations
24/JUN/2013 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - MK7890921) Surface Observations
28/APR/1999 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - WD:74051 WS:74081) Surface Observations
01/JUN/2009 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 695) Surface Observations
10/SEP/1999 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 807) Surface Observations

Air Temperature

16/FEB/2017 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 36656004) Surface Observations
24/OCT/2017 REPLACE Humidity Probe (Now Rotronics MP101A-T4-W4W S/N - 1902000/13) Surface Observations
29/JAN/2018 REPLACE Humidity Probe (Now Vaisala HMP45DX S/N - X4150010) Surface Observations
01/JUL/1994 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - NONE) Surface Observations
14/DEC/2011 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - 10276) Surface Observations
12/AUG/2015 REPLACE Temperature Probe - Dry Bulb (Now Rosemount ST2401 S/N - 0611) Surface Observations
20/MAR/2017 REPLACE Temperature Probe - Dry Bulb (Now Temp Control TCBMP01 S/N - 10280/1) Surface Observations
01/JUN/1939 INSTALL Thermograph (Type Fielden S/N - Unknown) Surface Observations
01/JUL/1994 REMOVE Thermograph (Type Fielden S/N - Unknown) Surface Observations
01/JUN/1939 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 5895) Surface Observations
25/MAY/2011 REPLACE Thermometer, Mercury, Dry Bulb (Now WIKA S/N - 27566) Surface Observations
06/OCT/2016 REPLACE Thermometer, Mercury, Dry Bulb (Now WIKA S/N - M5278) Surface Observations

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Extended Climatological Station Metadata
All History

Station: SYDNEY AIRPORT AMO		Location: SYDNEY AIRPORT AMO			State: NSW
Bureau No.: 066037	WMO No.: 94767	Aviation ID: YSSY	Opened: 01 Jan 1929	Current Status: Still open	
Latitude: -33.9465	Longitude: 151.1731	Elevation: 6 m	Barometer Elev: 5 m	Metadata compiled: 27 JUL 2025	

Station Equipment History (continued)

Equipment Install/Remove(Continued)

Surface Inclination (No Electronic History)

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

Available Date Range	Element	Fail Field Performance Check
13/AUG/2002 - 30/NOV/2020	Cloud Height	0
24/OCT/2017 - 30/NOV/2020	Humidity	1
13/AUG/2002 - 06/OCT/2016	Pressure Trend	0
16/OCT/2012 - 08/DEC/2012	Lightning	0
09/DEC/1998 - 30/NOV/2020	Wind Direction	5
21/APR/1998 - 30/NOV/2020	Wet Bulb Temperature	0
09/DEC/1998 - 30/NOV/2020	Maximum Temperature	0
09/DEC/1998 - 06/OCT/2016	Soil Temperature 10cm	0
09/DEC/1998 - 06/OCT/2016	Soil Temperature 20cm	0
09/DEC/1998 - 30/NOV/2020	Wind Run	0
09/DEC/1998 - 30/NOV/2020	Minimum Temperature	0
09/DEC/1998 - 30/NOV/2020	Terrestrial Minimum Temperature	0
22/FEB/2000 - 30/NOV/2020	Visibility	4
18/AUG/2003 - 03/APR/2014	RF Reflectivity	2
09/DEC/1998 - 30/NOV/2020	Pressure	2
23/MAY/2001 - 30/NOV/2020	Evaporation	0
21/APR/1998 - 21/APR/2021	Rainfall	2
09/DEC/1998 - 30/NOV/2020	Wind Speed	5
21/APR/1998 - 30/NOV/2020	Air Temperature	3

Station Detail Changes

09/MAY/2006 CLASSIFICATION AWS Funding - Aviation Funded Assets (AVAF)
12/OCT/2020 CLASSIFICATION AWS Priority 1 - Critical (SLP1-AWS)
03/JAN/2017 CLASSIFICATION Brisbane FIR Majors (BRIS_FIR_1)
26/JUN/2002 CLASSIFICATION CLIMAT Stations (CLC)
09/MAY/2006 CLASSIFICATION Category A (TAF A)
10/JAN/2011 CLASSIFICATION Critical (ASOSCRIT)
10/JUN/2014 CLASSIFICATION Critical Aviation or Defence (AVCRIT) ENDED 16-10-2020
01/JUL/2018 CLASSIFICATION HQ EVAPORATION (HQEVAP)
01/JUL/1998 CLASSIFICATION Information and Observations (MIO) ENDED 18-11-2002
02/AUG/2021 CLASSIFICATION Mastered in EAMS (EAMS)
01/JAN/2017 CLASSIFICATION New South Wales (1) (NSW_1)
18/NOV/2002 CLASSIFICATION Observations Only (MO)
01/JUL/2017 CLASSIFICATION Observing Operations Hub - Sydney (OOH-S)
21/MAR/2016 CLASSIFICATION Processed by ASOS (PBA)

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Extended Climatological Station Metadata
All History

Station:	SYDNEY AIRPORT AMO		Location:	SYDNEY AIRPORT AMO		State:	NSW
Bureau No.:	066037	WMO No.:	94767	Aviation ID:	YSSY	Opened:	01 Jan 1929
Latitude:	-33.9465	Longitude:	151.1731	Elevation:	6 m	Barometer Elev:	5 m
Current Status:							Still open
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Station Equipment History (continued)

Station Detail Changes(Continued)

01/JUL/1998 CLASSIFICATION Rawinsonde Stations (RS)
14/FEB/1997 CLASSIFICATION Regional Basic Synoptic Network (RBSN)
01/JUL/2017 CLASSIFICATION SLS Flood forecasting priority â€™ Medium (FWP-M)
04/JUL/2007 OBJECT Document/066037070625prfchks
26/AUG/2008 OBJECT Document/066037080826perfchks
30/NOV/2020 OBJECT Document/066037201130Mast Inspection
20/JUN/2011 OBJECT Document/AWS SITE AUDIT
28/APR/2011 OBJECT Document/CEILOMETER STATUS
10/MAY/2011 OBJECT Document/CEILOMETER STATUS
06/OCT/2016 OBJECT Document/CEILOMETER STATUS
29/MAY/2018 OBJECT Document/CEILOMETER STATUS
30/NOV/2020 OBJECT Document/CEILOMETER STATUS
14/DEC/2011 OBJECT Document/CEILOMETER STATUS
24/JAN/2013 OBJECT Document/CEILOMETER STATUS
09/OCT/2013 OBJECT Document/CEILOMETER STATUS
05/AUG/2014 OBJECT Document/CEILOMETER STATUS
11/MAR/2015 OBJECT Document/CEILOMETER STATUS
30/MAR/2016 OBJECT Document/CEILOMETER STATUS
29/JAN/2018 OBJECT Document/CEILOMETER STATUS
08/FEB/2018 OBJECT Document/F611 2018
06/FEB/2019 OBJECT Document/HYDRO INSPECTION CHECKSHEET
06/FEB/2019 OBJECT Document/PROFILER ANTENNA TUNING TEMPLATE
08/AUG/2017 OBJECT Document/SITE LEASE
07/DEC/2017 OBJECT Document/SITE LEASE
26/AUG/2008 OBJECT Document/SKYLINE DATA
30/MAY/2012 OBJECT Document/SKYLINE DATA
06/OCT/2016 OBJECT Document/SKYLINE DATA
23/MAR/2011 OBJECT Document/SKYLINE DATA - RADAR
18/AUG/2003 OBJECT Document/Sydney Aiport
17/MAR/2015 OBJECT Document/Sydney Airport MO Hydrogen Yearly Check 2015
28/APR/2011 OBJECT Document/VISIBILITY METER STATUS
10/MAY/2011 OBJECT Document/VISIBILITY METER STATUS
06/OCT/2016 OBJECT Document/VISIBILITY METER STATUS
29/MAY/2018 OBJECT Document/VISIBILITY METER STATUS
30/NOV/2020 OBJECT Document/VISIBILITY METER STATUS
14/DEC/2011 OBJECT Document/VISIBILITY METER STATUS
04/JUL/2012 OBJECT Document/VISIBILITY METER STATUS
24/JAN/2013 OBJECT Document/VISIBILITY METER STATUS
09/OCT/2013 OBJECT Document/VISIBILITY METER STATUS
05/AUG/2014 OBJECT Document/VISIBILITY METER STATUS
11/MAR/2015 OBJECT Document/VISIBILITY METER STATUS
11/MAY/2015 OBJECT Document/VISIBILITY METER STATUS
30/MAR/2016 OBJECT Document/VISIBILITY METER STATUS

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All History

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Current Status:							Still open
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Station Equipment History (continued)

Station Detail Changes(Continued)

29/JAN/2018 OBJECT Document/VISIBILITY METER STATUS
03/JUL/2009 OBJECT Document/YSSY ceilometer status
01/JAN/1929 STATION - (nondb seeding) Opened
01/JAN/1929 STATION - (nondb seeding) aero_ht Changed to 6.4
01/JAN/1929 STATION - (nondb seeding) bar_ht Changed to 5
01/JAN/1929 STATION - (nondb seeding) bar_ht_deriv Changed to SURVEY
01/JAN/1929 STATION - (nondb seeding) stn_ht Changed to 6
01/JAN/1929 STATION - (nondb seeding) stn_ht_deriv Changed to SURVEY
01/JAN/1929 STATION - (nondb seeding) wmo_num Changed to 94767
01/JAN/1929 STATION aviation_id Changed to YSSY
01/JAN/1929 STATION latitude Changed to -33.9411Seeded from NonDb
01/SEP/1976 STATION latitude Changed to -33.9465
01/JAN/1929 STATION latlon_deriv Changed to GPS
01/SEP/1976 STATION latlon_deriv Changed to SURVEY
01/SEP/1976 STATION latlon_error Changed to 3
01/JAN/1929 STATION latlon_error Changed to 50
01/JAN/1929 STATION longitude Changed to 151.1725Seeded from NonDb
01/SEP/1976 STATION longitude Changed to 151.1731
21/APR/1998 STATION lu_0_100m Changed to Airport
21/APR/1998 STATION lu_100m_1km Changed to Airport
21/APR/1998 STATION lu_1km_10km Changed to City area, buildings > 10 metres (3 storey)
01/JAN/1929 STATION name Changed to SYDNEY AIRPORT AMO
21/APR/1998 STATION soil_type Changed to sand
21/APR/1998 STATION surface_type Changed to fully covered by grass

System Changes

21/APR/2001 SYSTEM External Clients Ceased
20/APR/2001 SYSTEM External Clients Commenced
01/SEP/1929 SYSTEM Infrastructure Commenced
30/NOV/2020 SYSTEM Rainfall Intensity Ceased
01/JAN/1960 SYSTEM Rainfall Intensity Commenced
01/OCT/2013 SYSTEM Reference Standards Commenced
01/SEP/1929 SYSTEM Surface Observations Commenced
01/JAN/1946 SYSTEM Upper Air Commenced
10/MAR/1999 SYSTEM WeatherWatch Ceased
01/JAN/1966 SYSTEM WeatherWatch Commenced

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

Notes on these metadata

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

Reliability of the metadata

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

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

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

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

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

Station Number

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

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

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Notes on these metadata

Network Classification

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

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

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Notes on these metadata

Network Classification Continued....

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

Station Purpose

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

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

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

Station Observation Program Summary

Surface Observations

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

Set a)

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

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Notes on these metadata

Surface observations continued....

Set b)

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

Current Station Equipment Summary

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

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

Station Equipment History

Equipment Install/Remove

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

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

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

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

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

Unshare - The instrument is no longer shared between systems

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Notes on these metadata

Calibration

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

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

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

Station Detail Changes

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

- STATION

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

Station position

- Latitude and longitude

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

- Height

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

Heights which may appear in these metadata are:

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

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Notes on these metadata

- Land Use

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

Defined Land use Types.

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

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

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

Defined Soil Type (At Enclosure).

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

Surface Type (At Enclosure).

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

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