



Basic Climatological Station Metadata

Current status

Metadata compiled: 26 JUL 2025

Station: PERTH AIRPORT

Bureau of Meteorology station number: 009021
Bureau of Meteorology district name: Central Coast
State: WA

World Meteorological Organization number: 94610
Identification: YPPH

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

Station purpose: Synoptic, Upper Air, Aeronautical
Automatic Weather Station: Almos



Current Station Location				
Latitude	Decimal	-31.9275	Hour Min Sec	31°55'39"S
Longitude	Decimal	115.9764	Hour Min Sec	115°58'35"E
Station Height	15.4 m	Barometer Height	20 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.



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Current status

Station: PERTH AIRPORT		Location: PERTH AIRPORT		State: WA	
Bureau No.: 009021	WMO No.: 94610	Aviation ID: YPPH	Opened: 01 Jan 1944	Current Status: Still open	
Latitude: -31.9275	Longitude: 115.9764	Elevation: 15.4 m	Barometer Elev: 20 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	OCT 1981	JUN 2025	99.6	52	0
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	OCT 1981	JUN 2011	88.9	193	33
GROUND MINIMUM TEMPERATURE	DEC 1965	JUN 2025	99.4	115	0
MAXIMUM AIR TEMPERATURE	JUN 1944	JUN 2025	99.9	6	0
MAXIMUM WIND GUST SPEED	JUN 1944	JUN 2025	99.5	116	1
SUNSHINE HOURS	JAN 1993	JUN 2025	99.9	10	0
WIND RUN ABOVE 10 FEET	JUN 1994	JUN 2025	98.4	175	0
WIND RUN BELOW 10 FEET	OCT 1981	JUN 2025	99.4	54	1
RAINFALL	MAY 1944	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	MAY 1944	JUN 2025	99.7	9.5	28	0
DEW POINT	JUN 1944	JUN 2025	99.8	9.5	3	0
MEAN SEA LEVEL PRESSURE	MAY 1944	JUN 2025	91.2	9.7	369	71
PRECIPITATION SINCE LAST OBS	JAN 1960	AUG 1999	82.3	6.4	2271	1
SOIL TEMPERATURE - 10cm	FEB 1986	JUN 2025	66.0	7.8	37	156
TOTAL CLOUD AMOUNT	MAY 1944	JUN 2025	99.8	7.6	1	0
WIND SPEED	MAY 1944	JUN 2025	99.8	9.5	1	0
UPPER AIR TEMPERATURE	JUN 1952	JUN 2025	92.5	2.0	173	2
UPPER AIR WIND SPEED	JAN 1950	JUN 2025	93.2	4.0	67	16

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RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	JAN 1961	JUL 2017	86.4	2252	18

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	APR 1997	JUL 2025	99.4	1430.7	N/A	0

HALF-HOURLY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	JAN 1985	JUL 2025	105.2	50.5	N/A	0

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	May 2000	Aug 2019	N/A	2.0	145	1
Wind, temperature and pressure flights	Mar 1991	Apr 2018	N/A	2.0	69	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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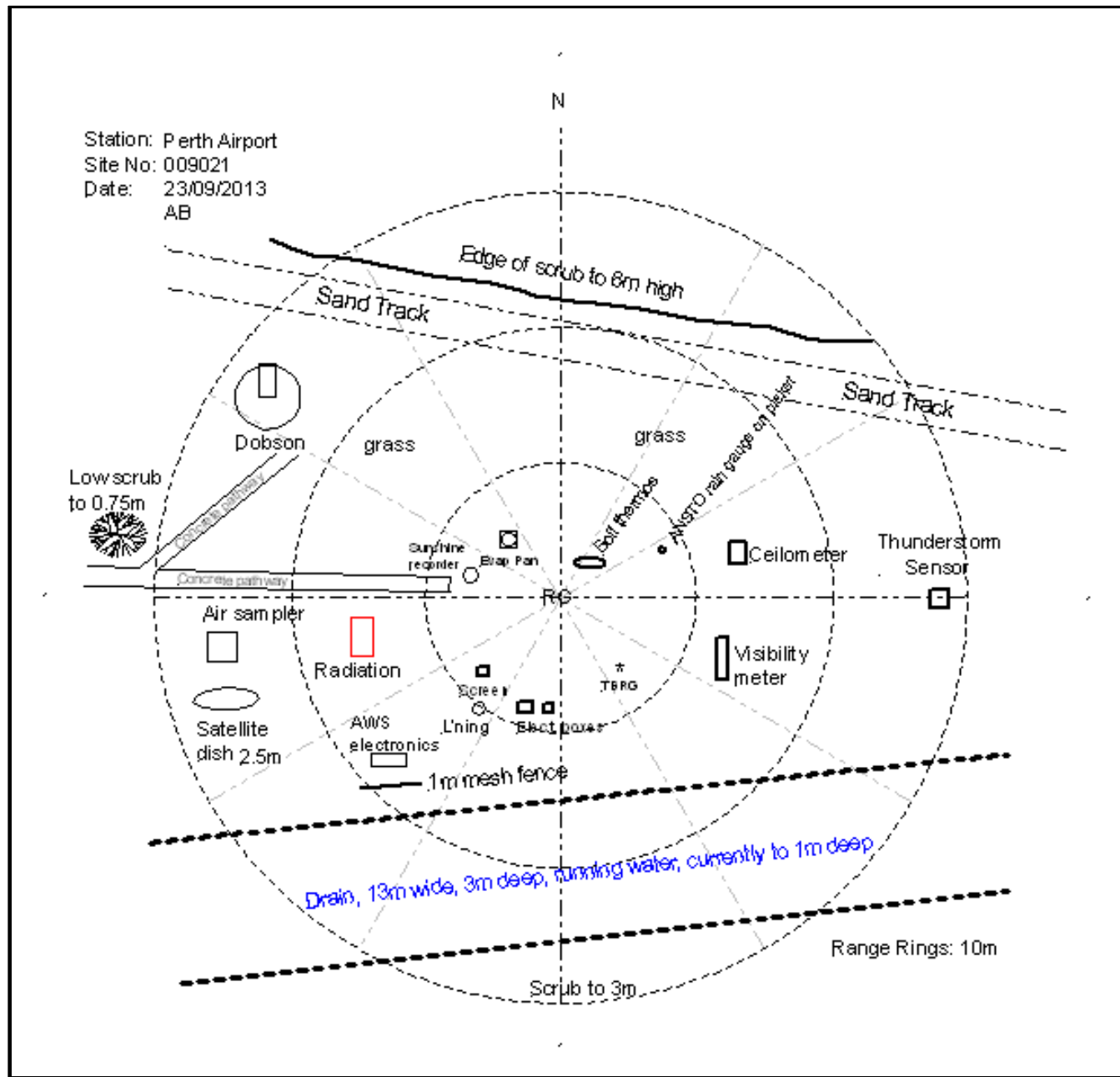
Extended Climatological Station Metadata

All History

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Bureau No.:	009021	WMO No.:	94610	Aviation ID:	YPPH	Opened:	01 Jan 1944	Current Status:	Still open
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Instrument Location and Surrounding Features

23/09/2013(most recent)



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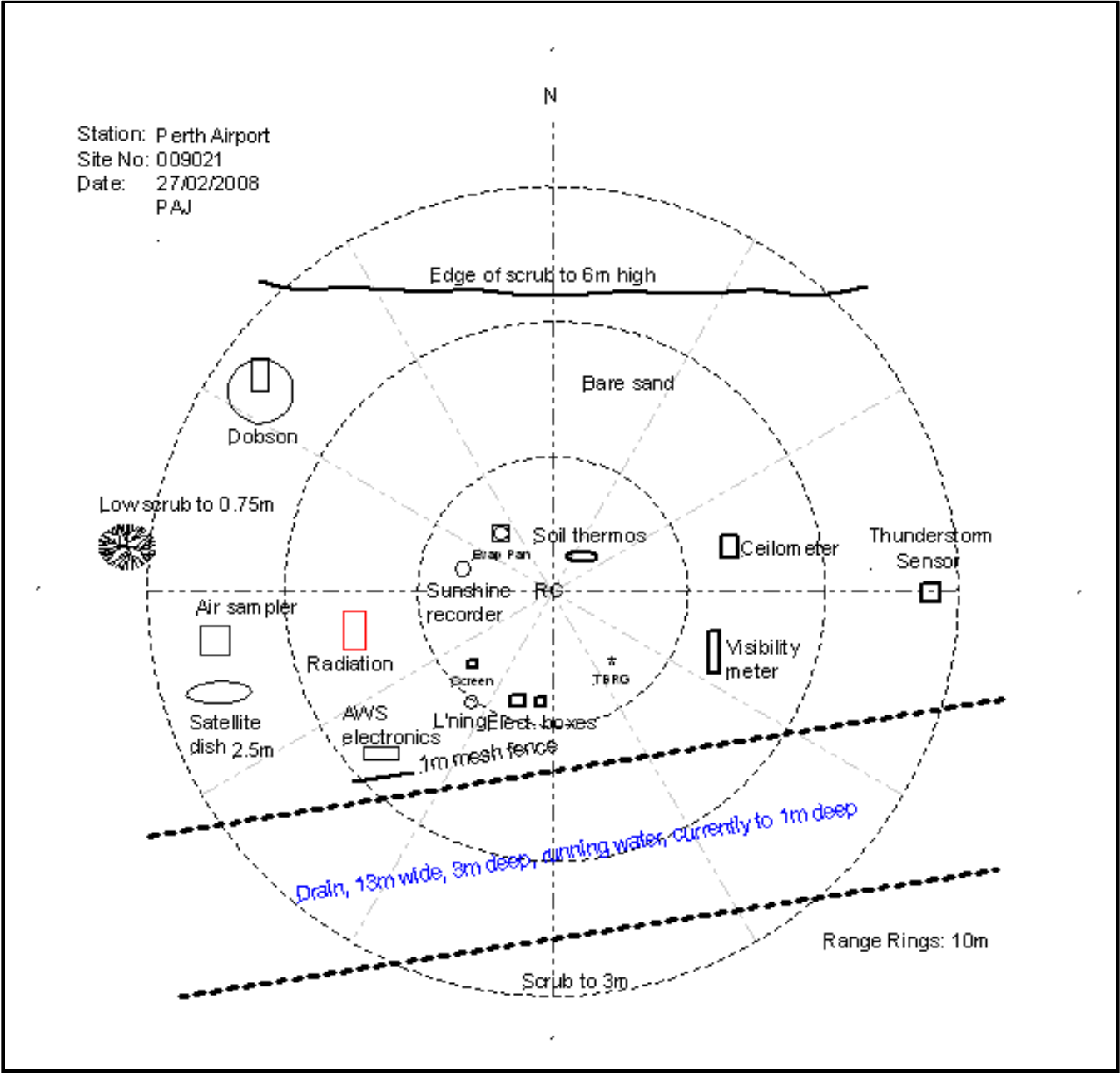
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Instrument Location and Surrounding Features
27/02/2008



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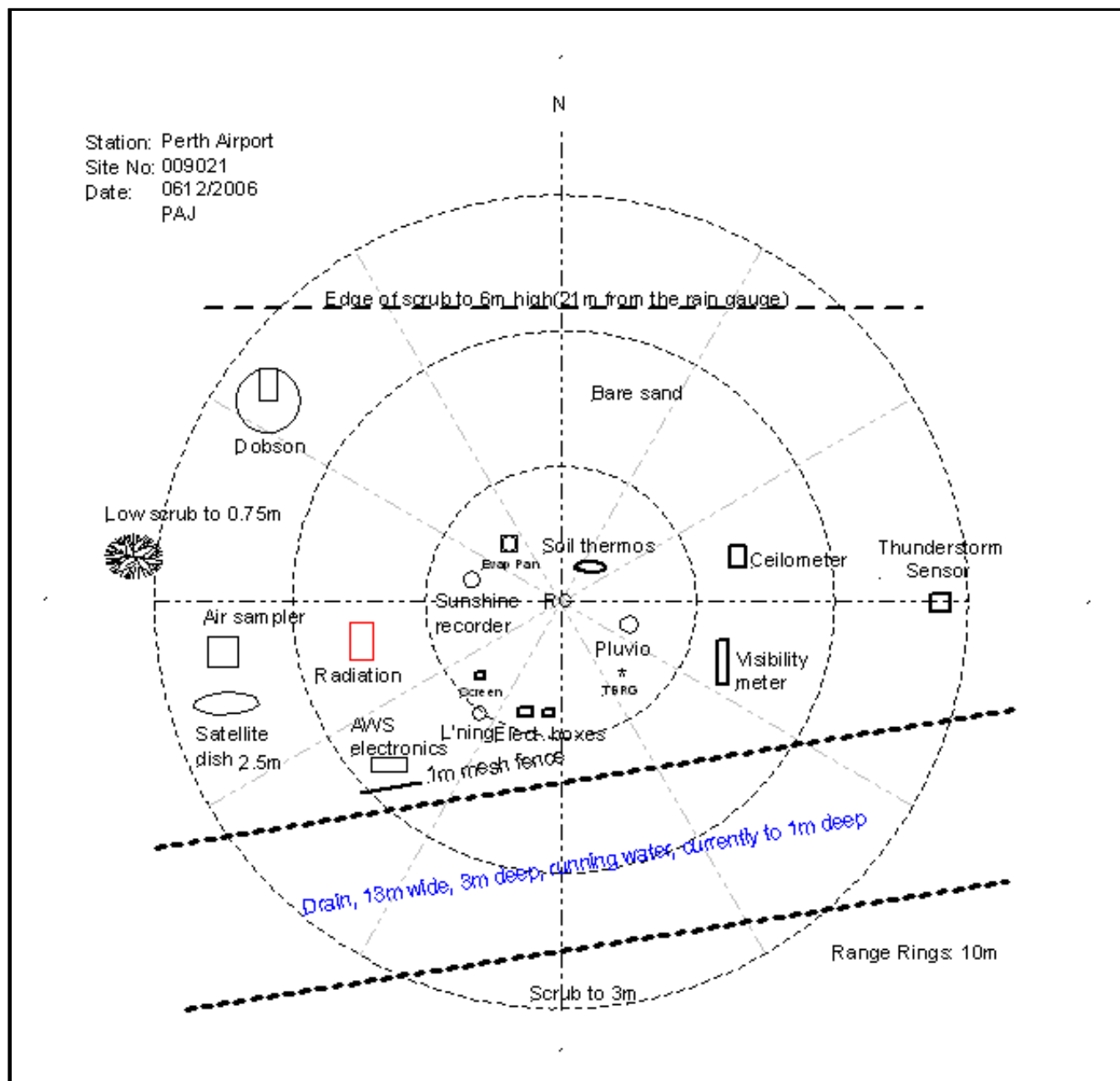
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Instrument Location and Surrounding Features

06/12/2006



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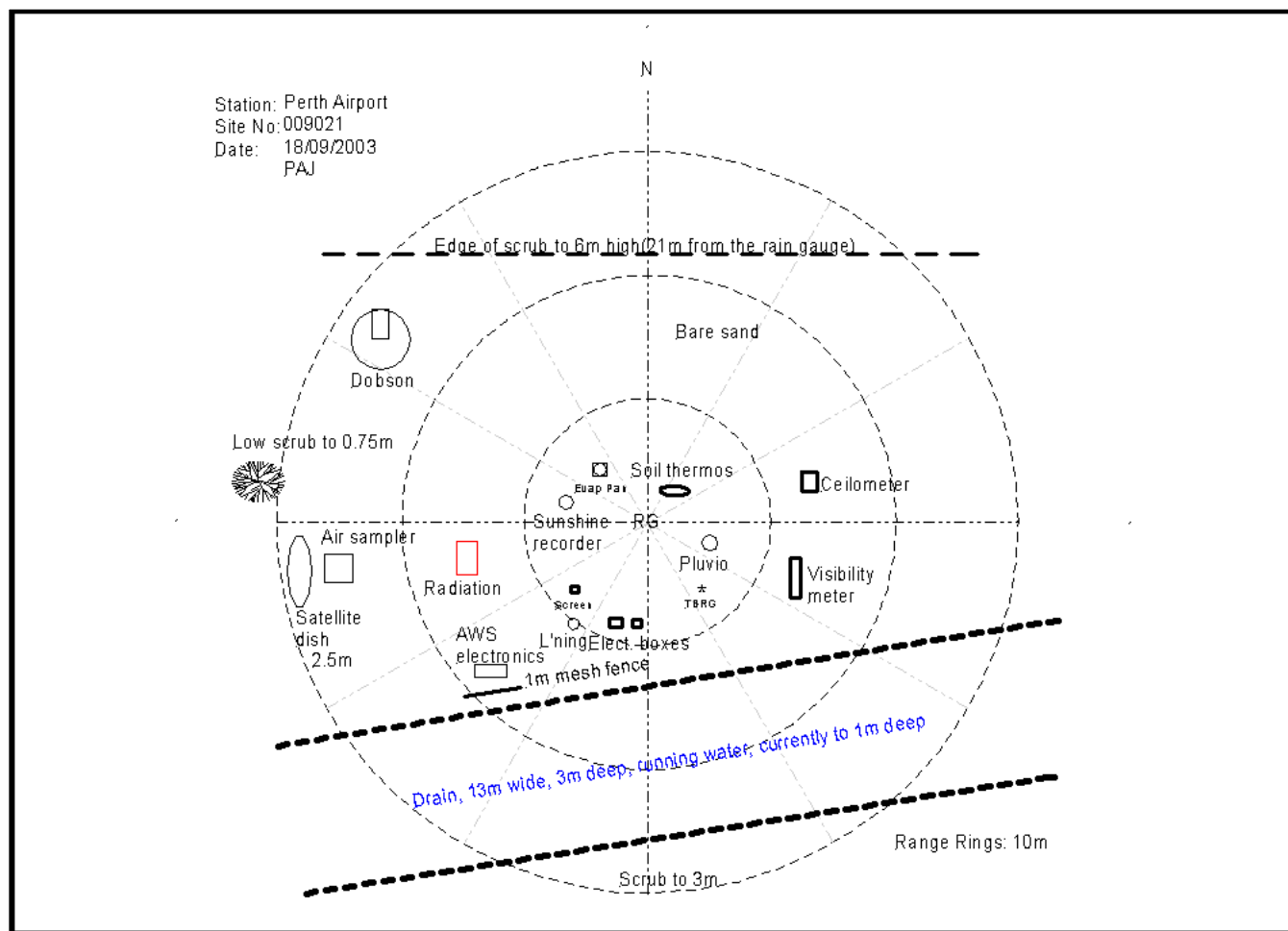
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Instrument Location and Surrounding Features

11/09/2003



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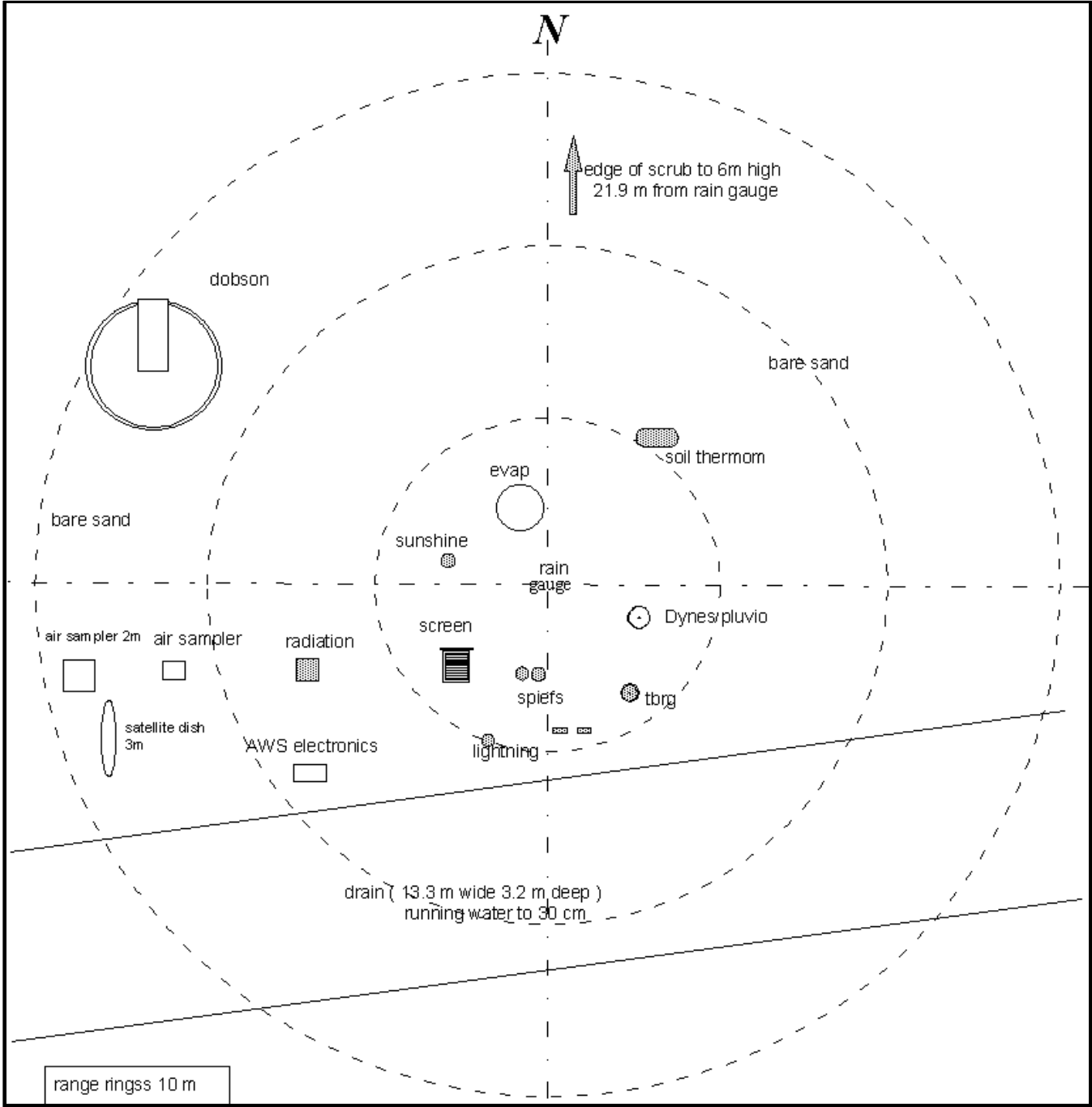
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Instrument Location and Surrounding Features
02/11/2000



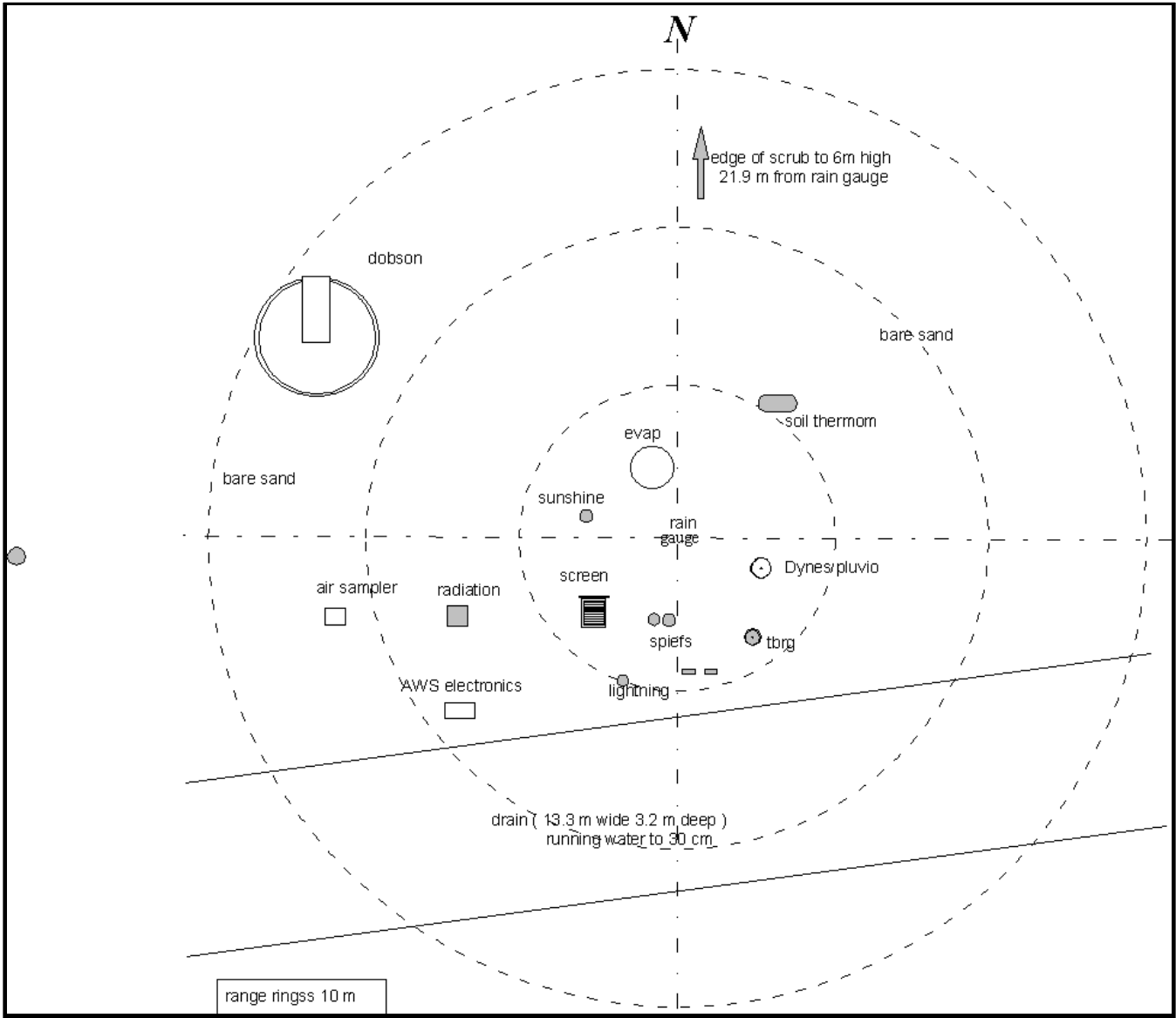
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Instrument Location and Surrounding Features
27/10/1997



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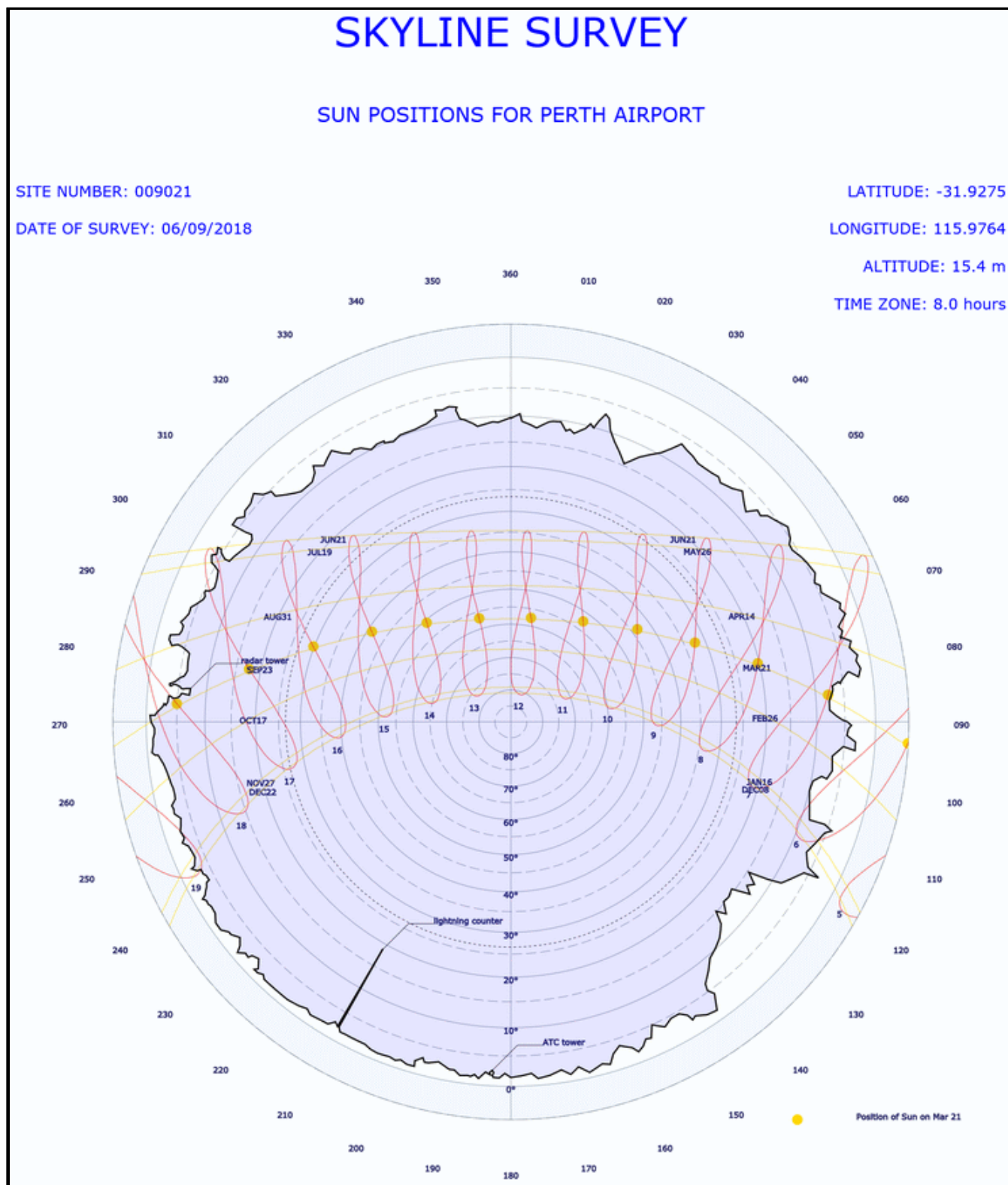
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Skyline Diagram

06/09/2018(most recent)



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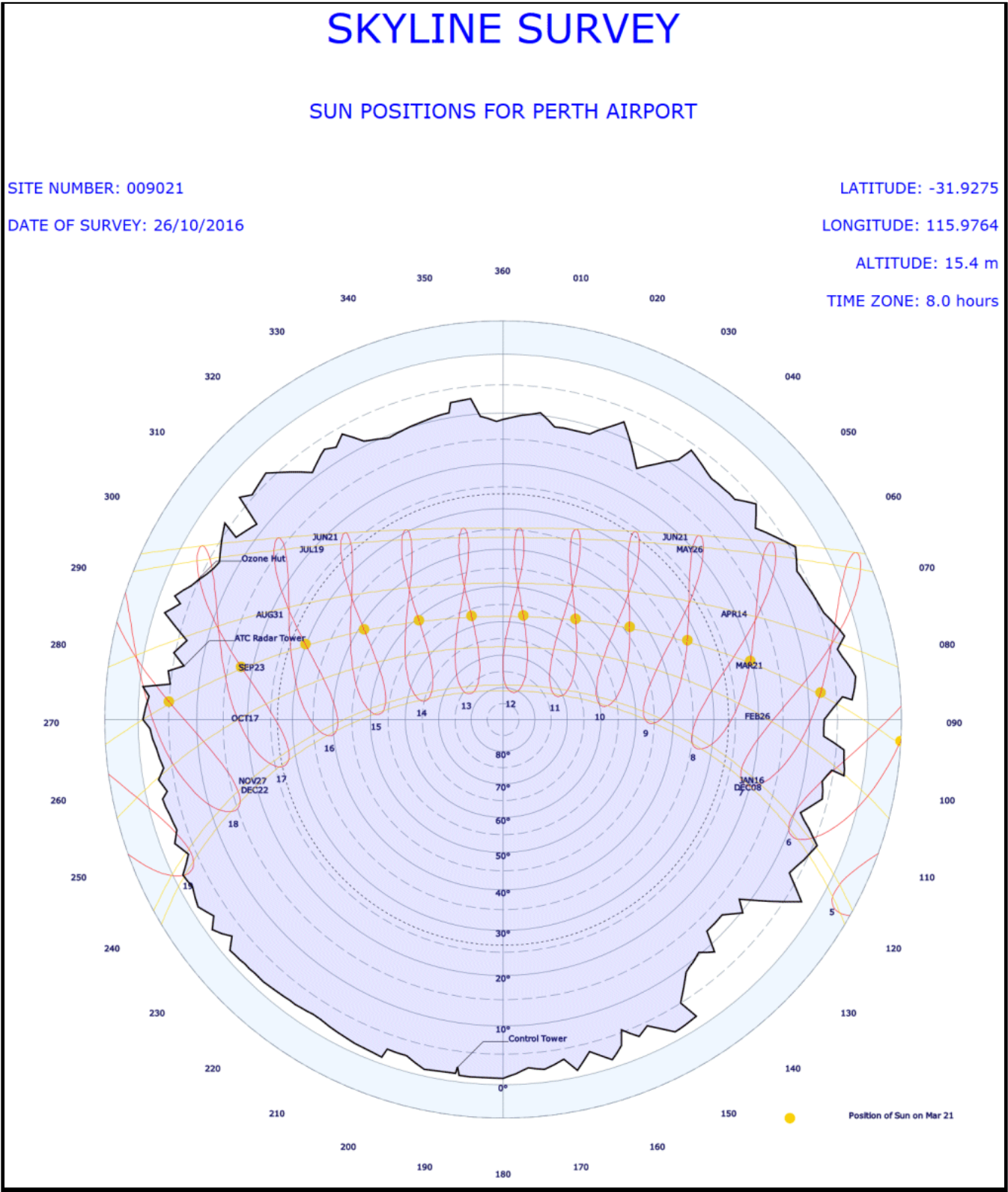
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Skyline Diagram
26/10/2016



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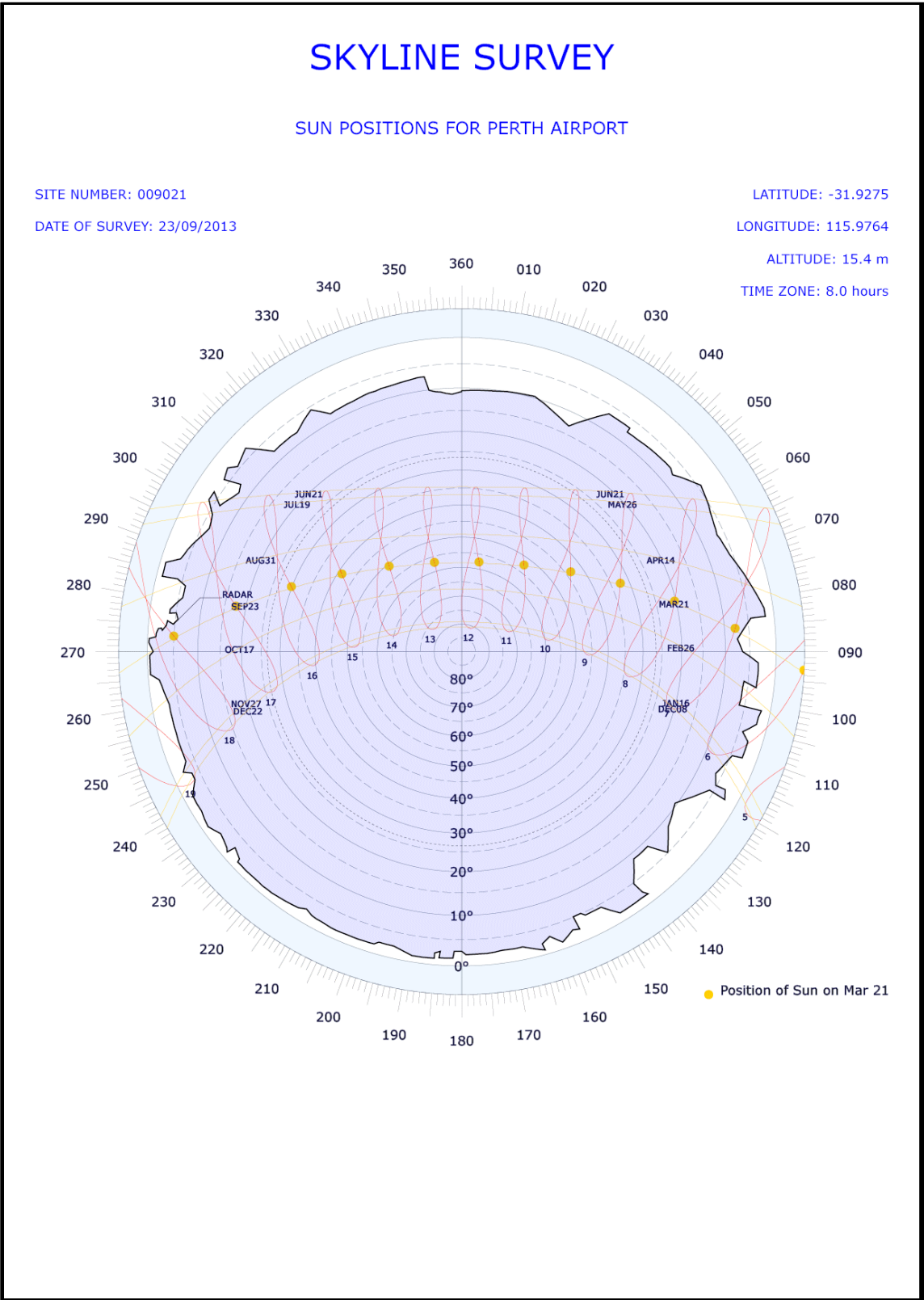
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Skyline Diagram
23/09/2013



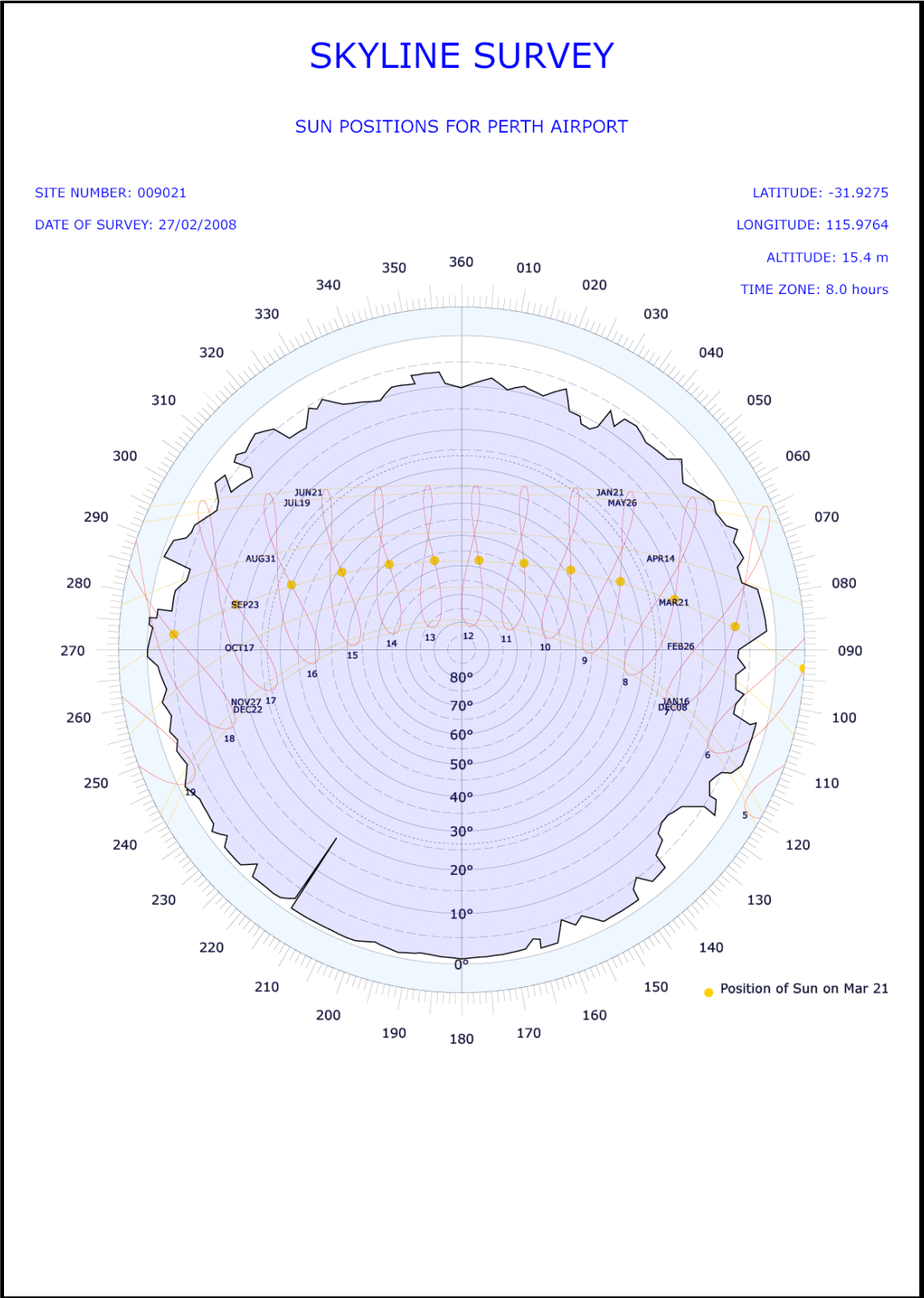
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Skyline Diagram
27/02/2008



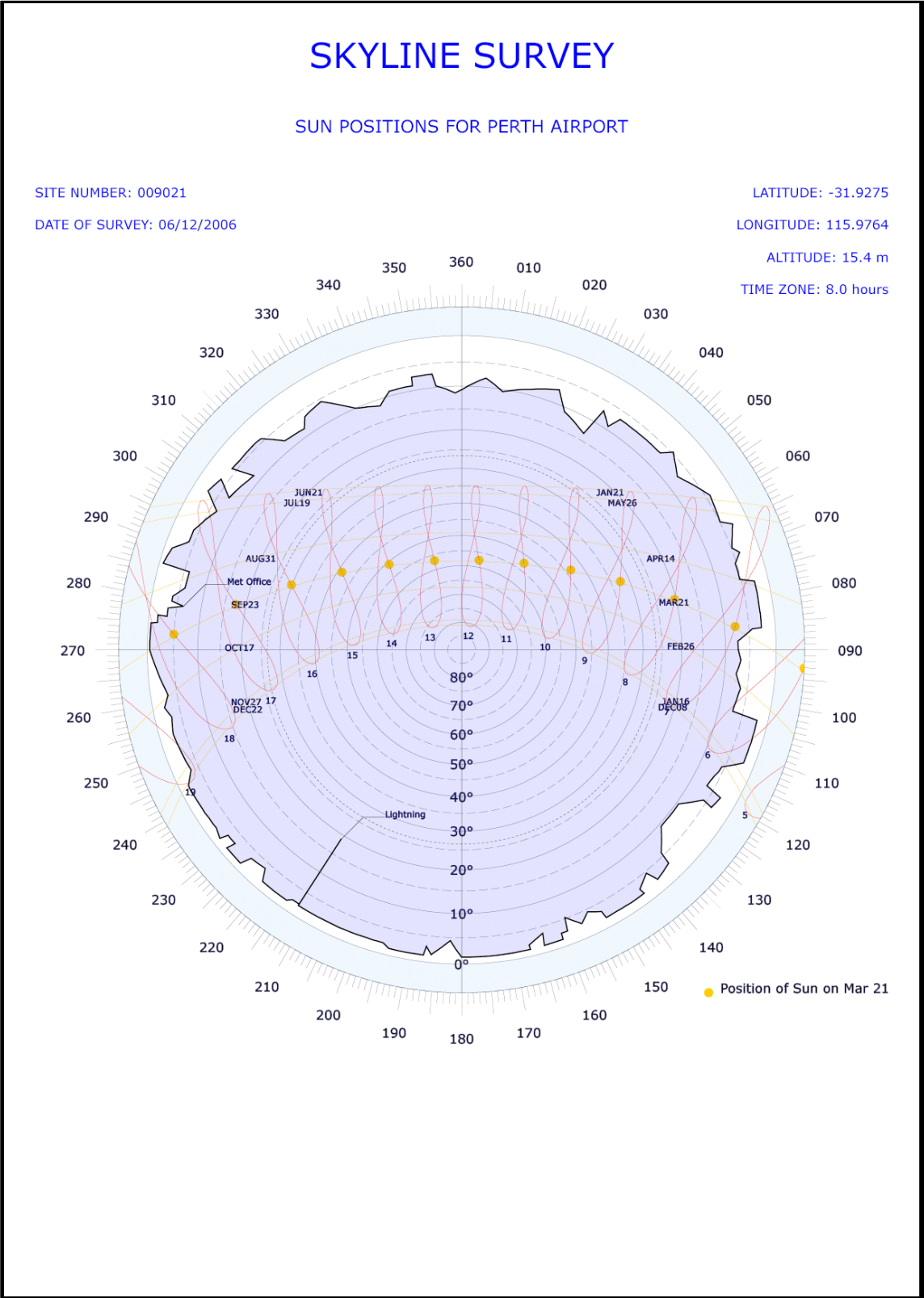
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Skyline Diagram
06/12/2006



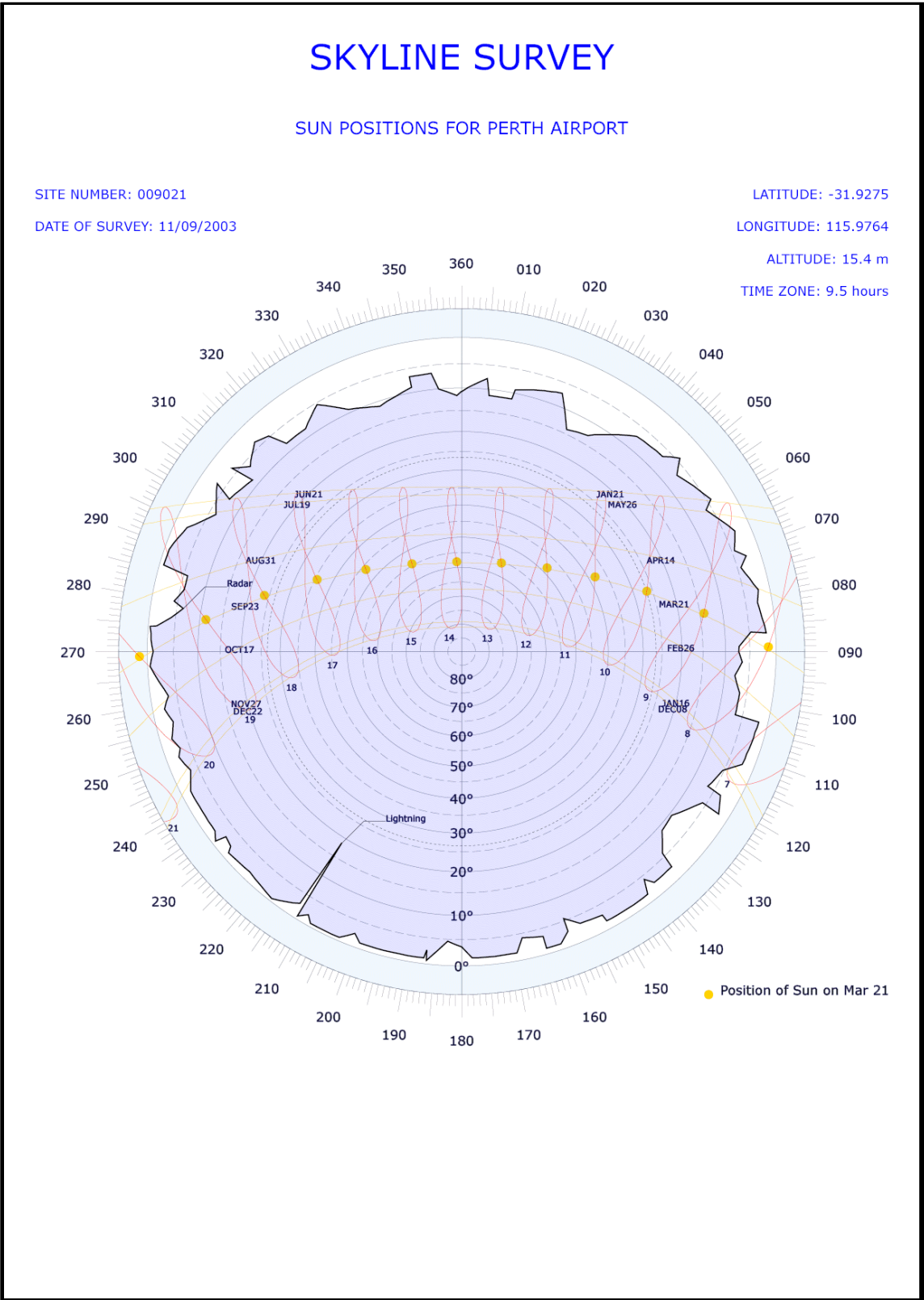
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Skyline Diagram
11/09/2003



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Station Observation Program Summary (Surface Observations) from 01/06/1944 to 31/10/1997

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 01/07/1999 to 24/08/2019

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	Y	Y	Y	Y	Y	Y	Y
Wind & Temp.	18:00	-	-	-	-	-	-	-
Wind	00:00	Y	Y	Y	Y	Y	Y	Y
Wind	06:00	Y	Y	Y	Y	Y	Y	Y
Wind	12:00	Y	Y	Y	Y	Y	Y	Y
Wind	18:00	Y	Y	Y	Y	Y	Y	Y

Upper Air Routine 24/08/2019 (most recent)

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	Y	Y	Y	Y	Y	Y	Y
Wind & Temp.	18:00	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-

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Station Equipment History

Equipment Install/Remove

Cloud Height

04/APR/2000 INSTALL Ceilometer (Type Vaisala CT25K S/N - U01507) Surface Observations
14/DEC/2016 REPLACE Ceilometer (Now Vaisala CL31 S/N - L4230405) Surface Observations
02/JUL/2011 REPLACE Ceilometer (Now Vaisala CT25K S/N - W09405) Surface Observations
17/JUL/2015 REPLACE Ceilometer (Now Vaisala CT25K S/N - X11502) Surface Observations
01/MAY/1944 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - Unknown) Surface Observations
04/APR/2000 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - Unknown) Surface Observations

Humidity

06/JUN/2019 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 61144950) Surface Observations
01/MAY/1944 INSTALL Hygrograph (Type Fielden S/N - Unknown) Surface Observations
20/JUN/1994 REMOVE Hygrograph (Type Fielden S/N - Unknown) Surface Observations

Pressure Trend

01/JAN/1966 INSTALL Barograph (Type Weekly S/N - CBM068) Surface Observations
15/FEB/2010 REMOVE Barograph (Type Weekly S/N - CBM068) Surface Observations

Lightning

21/FEB/1981 INSTALL Lightning Flash Counter (Type CIGRE - Vertical Aerial S/N - Unknown) Surface Observations
03/AUG/2005 INSTALL Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - Z5030005) Surface Observations
30/JUL/2013 REPLACE Lightning Sensor (Now Vaisala TSS928 (Thunderstorm Sensor) S/N - Z5150004) Surface Observations

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

01/JUN/1944 INSTALL Anemometer (Type Dines S/N - Unknown) Surface Observations
25/JAN/2017 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - Unknown) Surface Observations
27/OCT/1997 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 65493) Surface Observations
20/JUN/1994 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
20/JUN/1994 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - NONE) Infrastructure
22/OCT/1981 INSTALL Wind Run Anemometer (Type Unknown S/N - CBM391) Surface Observations
20/JUN/1994 REMOVE Anemometer (Type Dines S/N - Unknown) Surface Observations
27/OCT/1997 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
25/JAN/2017 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 104029) Surface Observations

Wet Bulb Temperature

20/JUN/1994 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 0224) Surface Observations
06/JUN/2019 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 265) Surface Observations
08/MAY/2000 REPLACE Temperature Probe - Wet Bulb (Now Rosemount S/N - 265) Surface Observations
26/JUN/2003 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 14633) Surface Observations
02/NOV/2000 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 14645) Surface Observations
02/NOV/2000 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - M1874) Surface Observations
25/JUN/2003 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 14633) Surface Observations
15/SEP/2009 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 20340) Surface Observations
12/APR/2004 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 14632) Surface Observations
06/SEP/2002 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 14633) Surface Observations
12/SEP/2005 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 20340) Surface Observations
14/JUL/2008 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 20381) Surface Observations

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Extended Climatological Station Metadata

All History

Station:	PERTH AIRPORT		Location:	PERTH AIRPORT		State:	WA
Bureau No.:	009021	WMO No.:	94610	Aviation ID:	YPPH	Opened:	01 Jan 1944
Latitude:	-31.9275	Longitude:	115.9764	Elevation:	15.4 m	Barometer Elev:	20 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

29/APR/2004 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 24119) Surface Observations
23/AUG/2004 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M0695) Surface Observations
18/JUN/2002 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M1895) Surface Observations
21/OCT/2014 REPLACE Thermometer, Mercury, Wet Bulb (Now WIKA S/N - 20374) Surface Observations
17/JUL/2019 REPLACE Thermometer, Mercury, Wet Bulb (Now WIKA S/N - 23057) Surface Observations
01/MAR/2013 REPLACE Thermometer, Mercury, Wet Bulb (Now WIKA S/N - 24112) Surface Observations
27/JUN/2011 REPLACE Thermometer, Mercury, Wet Bulb (Now WIKA S/N - 27462) Surface Observations
23/SEP/2013 REPLACE Thermometer, Mercury, Wet Bulb (Now WIKA S/N - 27462) Surface Observations

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

01/JUN/1944 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 15391) Surface Observations
04/OCT/2002 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 17198) Surface Observations
25/JUN/2009 REPLACE Thermometer, Mercury, Max (Now WIKA S/N - 22072) Surface Observations
17/JUL/2015 REPLACE Thermometer, Mercury, Max (Now WIKA S/N - 32863) Surface Observations

Soil Temperature 10cm

26/SEP/2003 INSTALL Temperature Probe - 10cm (Type Unknown S/N - 0045) Surface Observations
05/FEB/1986 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - 9725416) Surface Observations

Soil Temperature 20cm

26/SEP/2003 INSTALL Temperature Probe - 20cm (Type Unknown S/N - 0061) Surface Observations
05/FEB/1986 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - 9684859) Surface Observations
25/JUN/2012 REPLACE Thermometer, Soil, 20cm (Now Amarol S/N - 0967153) Surface Observations
06/DEC/2006 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - CBM597) Surface Observations
12/NOV/2004 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - M2305) Surface Observations

Soil Temperature 50cm

26/SEP/2003 INSTALL Temperature Probe - 50cm (Type Unknown S/N - 0067) Surface Observations
05/FEB/1986 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - M0976) Surface Observations
10/JUL/2010 REPLACE Thermometer, Soil, 50cm (Now Amarol S/N - 0137361) Surface Observations
03/OCT/2011 REPLACE Thermometer, Soil, 50cm (Now Dobros S/N - M5163) Surface Observations
04/JUL/2010 REPLACE Thermometer, Soil, 50cm (Now Dobros S/N - M5163) Surface Observations

Snow Height (No Electronic History)

Soil Temperature 100cm

26/SEP/2003 INSTALL Temperature Probe - 100cm (Type Unknown S/N - 0041) Surface Observations
05/FEB/1986 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - 9725159) Surface Observations
13/OCT/2007 REPLACE Thermometer, Soil, 100cm (Now Amarol S/N - 0398354) Surface Observations
08/AUG/2012 REPLACE Thermometer, Soil, 100cm (Now Amarol S/N - 0398366) Surface Observations

Sunshine Hours

01/JAN/1993 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - 190) Surface Observations

Wind Run

22/OCT/1981 INSTALL Wind Run Anemometer (Type Unknown S/N - CBM391) Surface Observations

Minimum Temperature

01/JUN/1944 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - 17031) Surface Observations
20/JUN/2009 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 29052) Surface Observations

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Extended Climatological Station Metadata

All History

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Latitude:	-31.9275	Longitude:	115.9764	Elevation:	15.4 m	Barometer Elev:	20 m
Current Status:							Still open
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Station Equipment History (continued)

Equipment Install/Remove(Continued)

25/JUN/2012 REPLACE Thermometer, Alcohol, Min (Now WIKA S/N - 29048) Surface Observations

Terrestrial Minimum Temperature

26/SEP/2003 INSTALL Temperature Probe - Grass (Type Unknown S/N - NONE) Surface Observations

06/OCT/2016 REPLACE Temperature Probe - Grass (Now Unknown S/N - 92/1) Surface Observations

01/JAN/1965 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - M0059) Surface Observations

16/JAN/2017 INSTALL Thermometer, Terrestrial, Min (Type WIKA S/N - 32918) Surface Observations

16/JAN/2017 REMOVE Thermometer, Terrestrial, Min (Type WIKA S/N - 90/1) Surface Observations

27/FEB/2008 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19625) Surface Observations

16/JAN/2007 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19625) Surface Observations

24/JUN/2002 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19638) Surface Observations

06/JUL/2001 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19654) Surface Observations

27/OCT/2011 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 20766) Surface Observations

27/AUG/2001 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 20766) Surface Observations

06/JUL/2007 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 25974) Surface Observations

21/MAR/2006 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - CBM040) Surface Observations

31/OCT/2011 REPLACE Thermometer, Terrestrial, Min (Now Unknown S/N - 17031) Surface Observations

09/JUL/2019 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 30409) Surface Observations

08/DEC/2012 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 32449) Surface Observations

24/JUL/2015 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 90/1) Surface Observations

Visibility

04/APR/2000 INSTALL Visibility Meter (Type Vaisala FD12 S/N - T49305) Surface Observations

Soil Temperature 5cm

26/SEP/2003 INSTALL Temperature Probe - 5cm (Type Unknown S/N - 0071) Surface Observations

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Oxygen Content (No Electronic History)

RF Reflectivity

01/AUG/1955 INSTALL Radar (Type 277F S/N - Unknown) Upper Air

01/AUG/1955 INSTALL Radar (Type 277F S/N - Unknown) WeatherWatch

01/AUG/1972 INSTALL Radar (Type WF44 S/N - Unknown) Upper Air

01/AUG/1972 INSTALL Radar (Type WF44 S/N - Unknown) WeatherWatch

20/NOV/2019 INSTALL Radar (Type Wurrung-2502C S/N - NONE) WeatherWatch

20/NOV/2019 INSTALL Radar Antenna Controller (RACCOON) (Type Wurrung V1.0 S/N - B008428) WeatherWatch

01/OCT/2009 INSTALL Radar Interface (Type EEC 502 (BoM) S/N - 05) Upper Air

20/NOV/2019 INSTALL Radar Safety System (RSS) (Type RSS (2502C/8502S) S/N - NONE) WeatherWatch

01/OCT/2009 INSTALL Radar Safety System (RSS) (Type RSS (2502C/8502S) S/N - Unknown) Upper Air

01/OCT/2009 INSTALL Radar Safety System (RSS) (Type RSS (2502C/8502S) S/N - Unknown) WeatherWatch

01/AUG/1972 INSTALL Radar Tower (Type Lattice WF44 - 18 ft S/N - Unknown) Infrastructure

01/JUL/1972 REMOVE Radar (Type 277F S/N - Unknown) Upper Air

01/JUL/1972 REMOVE Radar (Type 277F S/N - Unknown) WeatherWatch

18/NOV/2019 REMOVE Radar (Type DWSR 2502C S/N - 018) Upper Air

18/NOV/2019 REMOVE Radar (Type DWSR 2502C S/N - 018) WeatherWatch

18/NOV/2019 REMOVE Radar Interface (Type EEC 502 (BoM) S/N - 05) Upper Air

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Extended Climatological Station Metadata

All History

Station:	PERTH AIRPORT		Location:	PERTH AIRPORT		State:	WA
Bureau No.:	009021	WMO No.:	94610	Aviation ID:	YPPH	Opened:	01 Jan 1944
Latitude:	-31.9275	Longitude:	115.9764	Elevation:	15.4 m	Barometer Elev:	20 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

18/NOV/2019 REMOVE Radar Safety System (RSS) (Type RSS (2502C/8502S) S/N - 5026-03) Upper Air
18/NOV/2019 REMOVE Radar Safety System (RSS) (Type RSS (2502C/8502S) S/N - 5026-03) WeatherWatch
27/OCT/1997 REMOVE Radar Tower (Type Lattice WF44 - 18 ft S/N - Unknown) Infrastructure
01/OCT/2009 REPLACE Radar (Now DWSR 2502C S/N - 018) Upper Air
01/OCT/2009 REPLACE Radar (Now DWSR 2502C S/N - 018) WeatherWatch
28/JUN/2012 REPLACE Radar Safety System (RSS) (Now RSS (2502C/8502S) S/N - 5026-03) Upper Air
28/JUN/2012 REPLACE Radar Safety System (RSS) (Now RSS (2502C/8502S) S/N - 5026-03) WeatherWatch

Total Column Ozone Amount

19/OCT/1998 INSTALL Photo Spectrometer (Type Dobson S/N - Unknown) Radiation

Pressure

01/JUL/1951 INSTALL Barometer (Type Kew pattern mercury S/N - 1983) Surface Observations
20/JUN/1994 INSTALL Barometer (Type Vaisala PA11A S/N - R5110008) Surface Observations
20/JUN/1994 REMOVE Barometer (Type Vaisala PA11A S/N - 561174) Surface Observations
01/JAN/1990 REPLACE Barometer (Now Kew pattern mercury S/N - 1948) Surface Observations
13/JUN/2007 REPLACE Barometer (Now Vaisala PA11A S/N - 433545) Surface Observations
31/MAR/1993 REPLACE Barometer (Now Vaisala PA11A S/N - 561174) Surface Observations
10/FEB/2012 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - G2970057) Surface Observations
22/JAN/2019 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - J4030021) Surface Observations

Evaporation

22/OCT/1981 INSTALL Evaporation Pan (Type Class A S/N - Unknown) Surface Observations
10/AUG/2010 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations
08/JAN/2018 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations
24/JUN/2008 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations
14/JUN/2005 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations
03/FEB/2003 REPLACE Evaporation Pan (Now Class A S/N - Unknown) Surface Observations

Rainfall

01/JAN/1961 INSTALL Pluviograph (Type Unknown S/N - Unknown) Rainfall Intensity
01/JAN/2008 REMOVE Pluviograph (Type Dines syphoning S/N - CBM251) Rainfall Intensity
19/APR/2005 REPLACE Pluviograph (Now Dines syphoning S/N - CBM251) Rainfall Intensity
26/JAN/1961 REPLACE Pluviograph (Now Dines syphoning S/N - Unknown) Rainfall Intensity
01/MAY/1944 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations
30/OCT/2013 INSTALL Raingauge (Type HS TB3 S/N - 00004) Surface Observations
07/AUG/1996 INSTALL Raingauge (Type HS TB3A-0.2 S/N - 95-105) Rainfall Intensity
20/JUN/1994 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Surface Observations
26/OCT/2016 REMOVE Raingauge (Type HS TB3 S/N - 00004) Surface Observations
27/OCT/1997 REMOVE Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Surface Observations
19/AUG/2005 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 84595) Rainfall Intensity
19/AUG/2005 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 84595) Surface Observations
24/MAY/2000 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 890) Rainfall Intensity
24/MAY/2000 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 890) Surface Observations
27/OCT/1997 SHARE Raingauge (Type HS TB3A-0.2 S/N - 95-105) Surface Observations
27/OCT/1997 SHARE Raingauge (Type Rimco TBRG (type unspecified) S/N - 890) Surface Observations
13/AUG/2019 UNSHARE Raingauge (Type Rimco TBRG (type unspecified) S/N - 84595) Rainfall Intensity

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Extended Climatological Station Metadata

All History

Station:	PERTH AIRPORT	Location:	PERTH AIRPORT	State:	WA
Bureau No.:	009021	WMO No.:	94610	Aviation ID:	YPPH
Latitude:	-31.9275	Longitude:	115.9764	Opened:	01 Jan 1944
		Elevation:	15.4 m	Barometer Elev:	20 m
				Current Status:	Still open
				Metadata compiled:	26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

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

01/JUN/1944 INSTALL Anemometer (Type Dines S/N - Unknown) Surface Observations
25/JAN/2017 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - Unknown) Surface Observations
27/OCT/1997 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 65493) Surface Observations
20/JUN/1994 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
20/JUN/1994 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - NONE) Infrastructure
22/OCT/1981 INSTALL Wind Run Anemometer (Type Unknown S/N - CBM391) Surface Observations
20/JUN/1994 REMOVE Anemometer (Type Dines S/N - Unknown) Surface Observations
27/OCT/1997 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
25/JAN/2017 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 104029) Surface Observations

Air Temperature

06/JUN/2019 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 61144950) Surface Observations
20/JUN/1994 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 304) Surface Observations
01/MAY/1944 INSTALL Thermograph (Type Fielden S/N - Unknown) Surface Observations
20/JUN/1994 REMOVE Thermograph (Type Fielden S/N - Unknown) Surface Observations
01/JUN/1944 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 14561) 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
24/JUL/2003 - 09/MAY/2019	Cloud Height	1
06/JUN/2019 - 06/JUN/2019	Humidity	0
02/NOV/2000 - 06/DEC/2006	Pressure Trend	0
02/NOV/2000 - 21/MAY/2013	Lightning	1
16/AUG/1998 - 20/AUG/2019	Wind Direction	4
18/MAR/1998 - 09/MAY/2019	Wet Bulb Temperature	2
02/NOV/2000 - 06/SEP/2018	Maximum Temperature	0
02/NOV/2000 - 06/SEP/2018	Soil Temperature 10cm	0
02/NOV/2000 - 06/SEP/2018	Soil Temperature 20cm	0
02/NOV/2000 - 06/SEP/2018	Soil Temperature 50cm	0
02/NOV/2000 - 06/SEP/2018	Soil Temperature 100cm	0
02/NOV/2000 - 06/SEP/2018	Wind Run	0
02/NOV/2000 - 06/SEP/2018	Minimum Temperature	0

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Station Equipment History (continued)

Available Date Range	Element	Fail Field Performance Check
02/NOV/2000 - 06/SEP/2018	Terrestrial Minimum Temperature	0
21/AUG/2001 - 09/MAY/2019	Visibility	4
21/MAR/2005 - 02/SEP/2021	RF Reflectivity	0
18/MAR/1998 - 09/MAY/2019	Pressure	4
02/NOV/2000 - 06/SEP/2018	Evaporation	0
18/MAR/1998 - 02/AUG/2021	Rainfall	9
16/AUG/1998 - 20/AUG/2019	Wind Speed	4
18/MAR/1998 - 06/JUN/2019	Air Temperature	1

Station Detail Changes

09/MAY/2006 CLASSIFICATION AWS Funding - Aviation Funded Assets (AVAF)
12/OCT/2020 CLASSIFICATION AWS Priority 1 - Critical (SLP1-AWS)
01/JUL/2011 CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT)
26/JUN/2002 CLASSIFICATION CLIMAT Stations (CLC)
26/JUN/2002 CLASSIFICATION CLIMAT TEMP Stations (CLT)
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
27/OCT/1997 CLASSIFICATION Fielden (FFD)
14/FEB/1997 CLASSIFICATION GCOS Upper Air Network (GUAN)
01/JUL/2018 CLASSIFICATION HQ EVAPORATION (HQEVAP)
01/JUL/1998 CLASSIFICATION Information and Observations (MIO) ENDED 18-11-2002
27/SEP/2021 CLASSIFICATION Mastered in EAMS (EAMS)
04/JAN/2017 CLASSIFICATION Melbourne FIR Majors (MEL_FIR_1)
21/MAR/2016 CLASSIFICATION NOT Processed by ASOS (NPBA) ENDED 10-08-2016
18/NOV/2002 CLASSIFICATION Observations Only (MO)
01/JUL/2017 CLASSIFICATION Observing Operations Hub - Perth (OOH-P)
10/AUG/2016 CLASSIFICATION Processed by ASOS (PBA)
01/JUL/1998 CLASSIFICATION Rawinsonde Stations (RS)
14/FEB/1997 CLASSIFICATION Regional Basic Synoptic Network (RBSN)
01/JAN/2017 CLASSIFICATION Western Australia (1) (WA_1)
07/APR/2003 OBJECT Document/009021Upgrade
11/JUN/2019 OBJECT Document/ASOS CONFIGURATION
01/MAR/2011 OBJECT Document/AWS SITE AUDIT
06/SEP/2018 OBJECT Document/CEILOMETER STATUS
09/MAY/2019 OBJECT Document/CEILOMETER STATUS
01/JUL/2011 OBJECT Document/CEILOMETER STATUS
21/MAY/2013 OBJECT Document/CEILOMETER STATUS
14/DEC/2016 OBJECT Document/CEILOMETER STATUS
13/DEC/2016 OBJECT Document/CEILOMETER STATUS
30/SEP/2015 OBJECT Document/CEILOMETER STATUS
16/OCT/2017 OBJECT Document/CEILOMETER STATUS
06/AUG/2014 OBJECT Document/CEILOMETER STATUS

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Station Equipment History (continued)

Station Detail Changes(Continued)

28/AUG/2015 OBJECT Document/HYDRO INSPECTION CHECKSHEET
11/AUG/2016 OBJECT Document/PerthAP_009021_ASOS_StationConfigurationForm_160809
05/OCT/2005 OBJECT Document/RAPIC TX CAL DATA
23/SEP/2013 OBJECT Document/SKYLINE DATA
26/OCT/2016 OBJECT Document/SKYLINE DATA
06/SEP/2018 OBJECT Document/SKYLINE DATA
06/DEC/2006 OBJECT Document/SKYLINE DATA
11/SEP/2003 OBJECT Document/SKYLINE DATA
27/FEB/2008 OBJECT Document/SKYLINE DATA
20/OCT/2020 OBJECT Document/SKYLINE DATA - ANEMOMETER
06/SEP/2018 OBJECT Document/VISIBILITY METER STATUS
09/MAY/2019 OBJECT Document/VISIBILITY METER STATUS
02/SEP/2011 OBJECT Document/VISIBILITY METER STATUS
11/OCT/2012 OBJECT Document/VISIBILITY METER STATUS
21/MAY/2013 OBJECT Document/VISIBILITY METER STATUS
30/SEP/2015 OBJECT Document/VISIBILITY METER STATUS
16/JUL/2014 OBJECT Document/VISIBILITY METER STATUS
21/MAY/2013 OBJECT Document/ypph_tss_20130521
01/JAN/1944 STATION - (nondb seeding) Opened
01/JAN/1944 STATION - (nondb seeding) aero_ht Changed to 20
01/JAN/1944 STATION - (nondb seeding) bar_ht Changed to 31
01/JAN/1944 STATION - (nondb seeding) bar_ht_deriv Changed to SURVEY
01/JAN/1944 STATION - (nondb seeding) latitude Changed to -31.9414
01/JAN/1944 STATION - (nondb seeding) longitude Changed to 115.9653
01/JAN/1944 STATION - (nondb seeding) name Changed to PERTH AIRPORT
01/JAN/1944 STATION - (nondb seeding) stn_ht Changed to 20
01/JAN/1944 STATION - (nondb seeding) stn_ht_deriv Changed to SURVEY
01/JAN/1944 STATION - (nondb seeding) wmo_num Changed to 94610
27/OCT/1997 STATION aero_ht Changed to 20.4
27/OCT/1997 STATION aero_ht_deriv Changed to SURVEY
27/OCT/1997 STATION aviation_id Changed to YPPH
08/OCT/2003 STATION bar_ht Changed to 20
27/OCT/1997 STATION bar_ht Changed to 20.3
08/OCT/2003 STATION bar_ht_deriv Changed to SURVEY
27/OCT/1997 STATION bar_ht_deriv Changed to SURVEY
11/SEP/2003 STATION latitude Changed to -31.9275Using WGS84
27/OCT/1997 STATION latitude Changed to -31.9286
27/OCT/1997 STATION latlon_deriv Changed to GPS
11/SEP/2003 STATION latlon_deriv Changed to GPS
27/OCT/1997 STATION latlon_error Changed to
27/OCT/1997 STATION longitude Changed to 115.975
11/SEP/2003 STATION longitude Changed to 115.9764Using WGS84
27/OCT/1997 STATION lu_0_100m Changed to Airport

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Extended Climatological Station Metadata
All History

Station:	PERTH AIRPORT			Location:	PERTH AIRPORT			State:	WA
Bureau No.:	009021	WMO No.:	94610	Aviation ID:	YPPH	Opened:	01 Jan 1944	Current Status:	Still open
Latitude:	-31.9275	Longitude:	115.9764	Elevation:	15.4 m	Barometer Elev:	20 m	Metadata compiled:	26 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

27/OCT/1997 STATION lu_100m_1km Changed to Airport
27/OCT/1997 STATION lu_1km_10km Changed to City area, buildings < 10 metres (3 storey)
27/OCT/1997 STATION soil_type Changed to sand
27/OCT/1997 STATION stn_ht Changed to 15.4
27/OCT/1997 STATION stn_ht_deriv Changed to SURVEY
12/OCT/2004 STATION surface_type Changed to mostly covered by grass
06/DEC/2006 STATION surface_type Changed to partly covered by grass
27/OCT/1997 STATION surface_type Changed to partly covered by grass

System Changes

01/JAN/1944 SYSTEM Infrastructure Commenced
19/OCT/1998 SYSTEM Radiation Commenced
13/AUG/2019 SYSTEM Rainfall Intensity Ceased
01/JAN/1961 SYSTEM Rainfall Intensity Commenced
01/JAN/2011 SYSTEM Reference Standards Commenced
01/MAY/1944 SYSTEM Surface Observations Commenced
01/JAN/1944 SYSTEM Upper Air Commenced
01/AUG/1955 SYSTEM WeatherWatch Commenced

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Notes on these metadata

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

Reliability of the metadata

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

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

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

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

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

Station Number

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

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

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Notes on these metadata

Network Classification

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

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

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Notes on these metadata

Network Classification Continued....

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

Station Purpose

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

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

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

Station Observation Program Summary

Surface Observations

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

Set a)

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

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Notes on these metadata

Surface observations continued....

Set b)

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

Current Station Equipment Summary

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

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

Station Equipment History

Equipment Install/Remove

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

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

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

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

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

Unshare - The instrument is no longer shared between systems

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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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