



Basic Climatological Station Metadata
Current status

Metadata compiled: 26 JUL 2025

Station: PEARCE RAAF

Bureau of Meteorology station number: 009053
Bureau of Meteorology district name: Central Coast
State: WA

World Meteorological Organization number: 94612
Identification: YPEA

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



Current Station Location				
Latitude	Decimal	-31.6669	Hour Min Sec	31°40'1"S
Longitude	Decimal	116.0189	Hour Min Sec	116°1'8"E
Station Height	40 m	Barometer Height	46.2 m	
Method of station geographic positioning			GPS	

Year opened: 1937
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: PEARCE RAAF		Location: PEARCE RAAF		State: WA	
Bureau No.: 009053	WMO No.: 94612	Aviation ID: YPEA	Opened: 01 Jan 1937	Current Status: Still open	
Latitude: -31.6669	Longitude: 116.0189	Elevation: 40 m	Barometer Elev: 46.2 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
GROUND MINIMUM TEMPERATURE	SEP 1984	MAR 2016	39.4	5770	40
MAXIMUM AIR TEMPERATURE	DEC 1940	JUN 2025	67.2	2716	244
MAXIMUM WIND GUST SPEED	NOV 1941	JUN 2025	65.7	2725	255
WIND RUN ABOVE 10 FEET	JUL 1995	JUN 2025	88.8	1220	0
RAINFALL	AUG 1937	JUL 2025	77	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	NOV 1940	JUN 2025	65.7	7.2	3831	204
DEW POINT	AUG 1944	JUN 2025	60.8	7.2	4054	228
MEAN SEA LEVEL PRESSURE	MAR 1953	JUN 2025	67.7	7.2	4151	124
PRECIPITATION SINCE LAST OBS	OCT 1966	AUG 1999	50.8	2.1	5190	9
SOIL TEMPERATURE - 10cm	SEP 1984	MAR 2016	32.8	2.0	2774	148
TOTAL CLOUD AMOUNT	NOV 1940	JUN 2025	54.2	3.2	6892	204
WIND SPEED	NOV 1940	JUN 2025	68.2	8.0	3097	204
UPPER AIR TEMPERATURE	SEP 1945	NOV 1955	35.6	1.0	206	72

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RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	SEP 1984	SEP 2014	78.2	965	47

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	JUL 2001	JUL 2025	99.2	1429.0	N/A	0

HALF-HOURLY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	DEC 1993	JUL 2025	70.5	33.9	N/A	3

THERE ARE NO UPPER-AIR EDT DATA HOLDINGS

Holdings calculated up to 01 Jul 2025

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

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

Unlisted element

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

Listed element to use

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

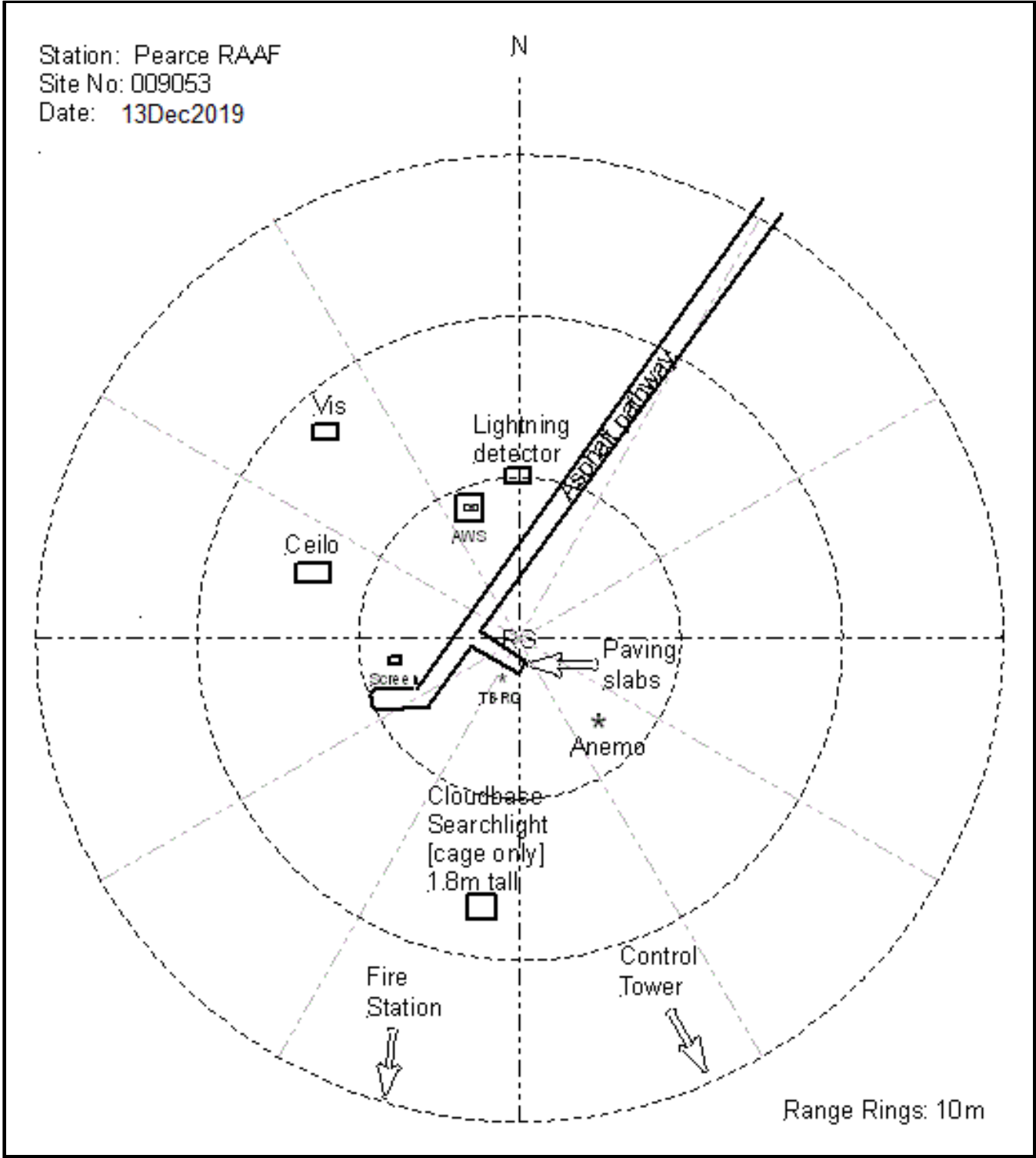
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Extended Climatological Station Metadata
All History

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Bureau No.:	009053	WMO No.:	94612	Aviation ID:	YPEA
Latitude:	-31.6669	Longitude:	116.0189	Opened:	01 Jan 1937
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Instrument Location and Surrounding Features
13/12/2019(most recent)



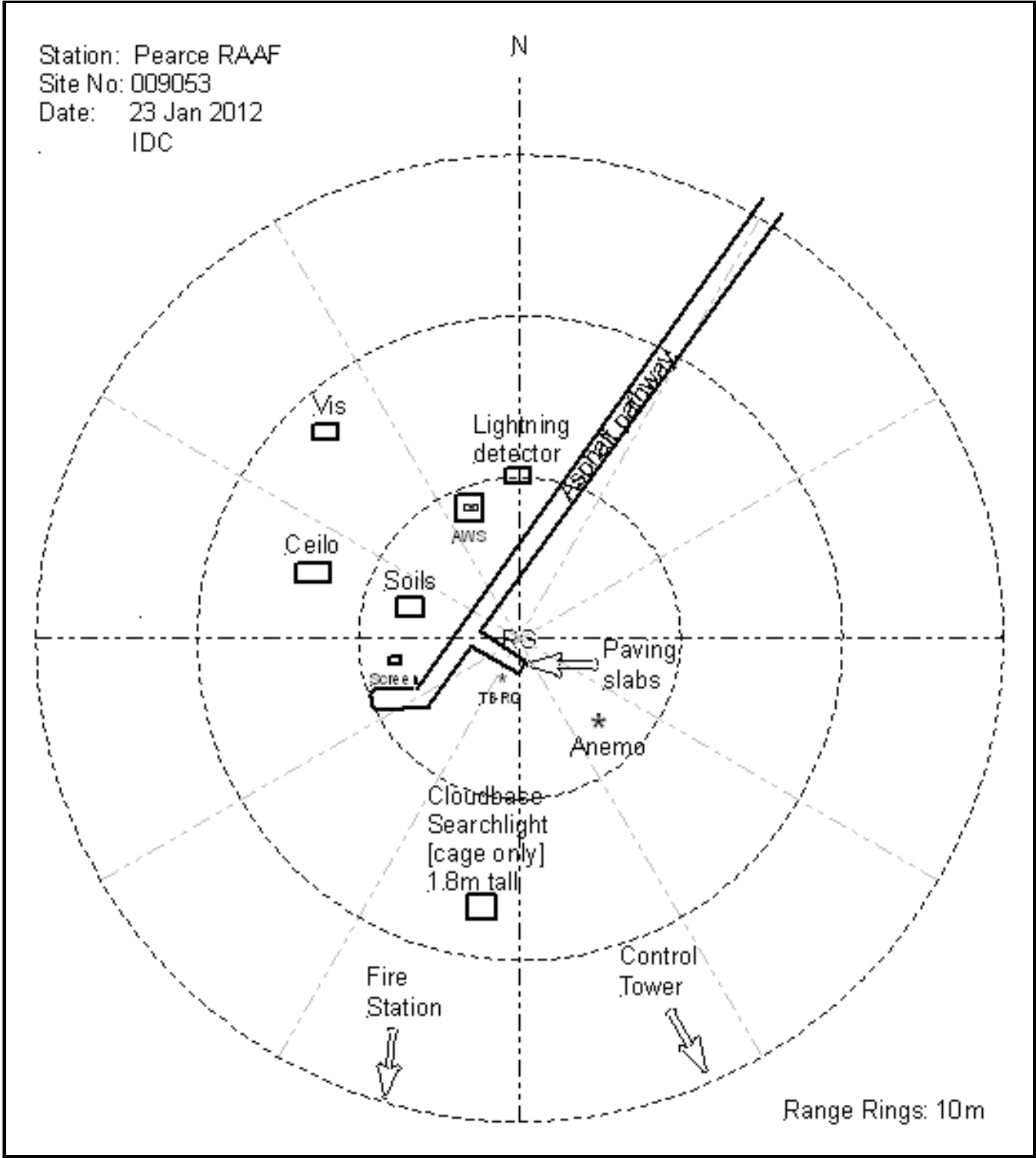
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Instrument Location and Surrounding Features
24/01/2012



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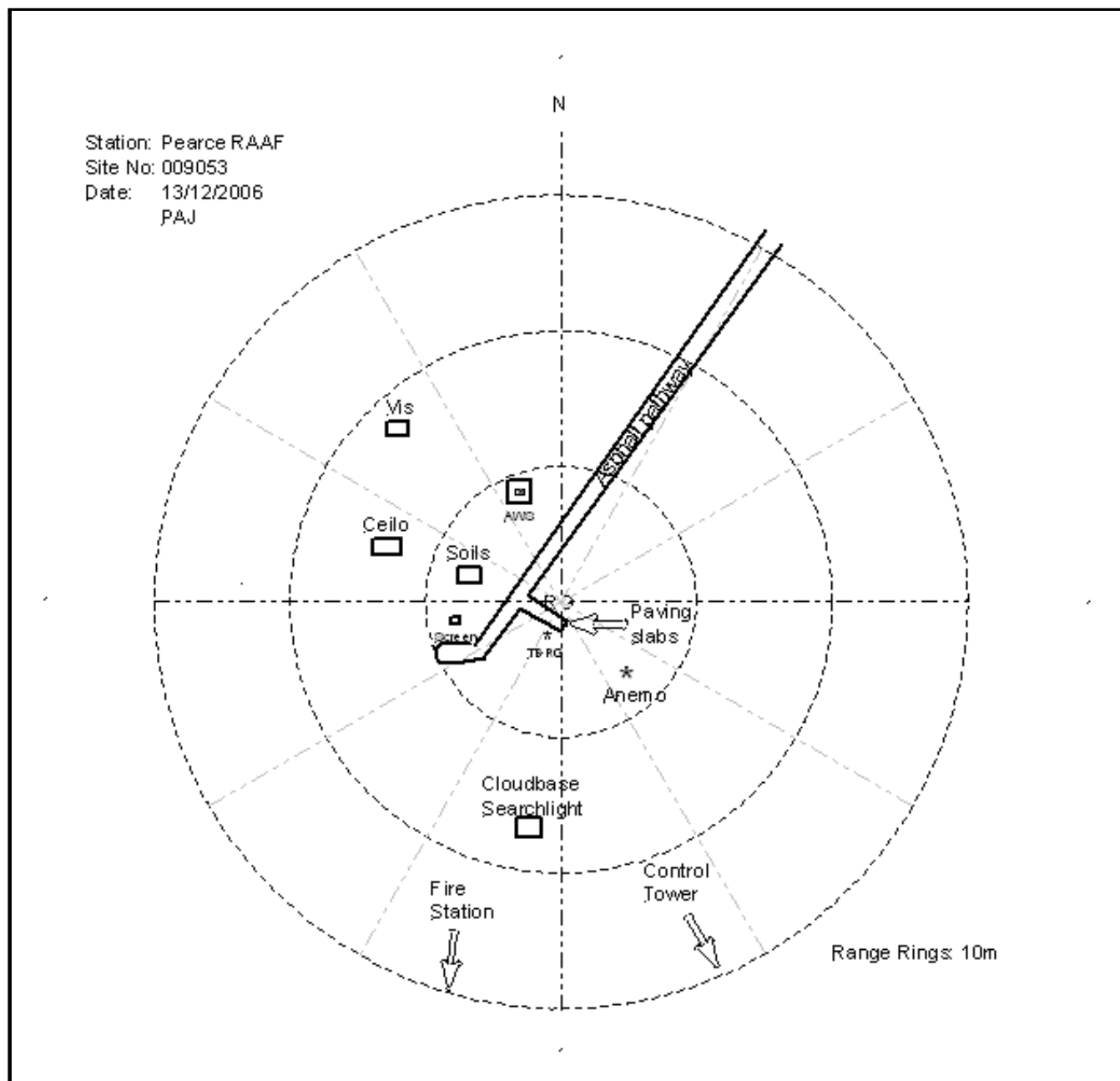
Extended Climatological Station Metadata

All History

Station:	PEARCE RAAF	Location:	PEARCE RAAF	State:	WA
Bureau No.:	009053	WMO No.:	94612	Aviation ID:	YPEA
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Instrument Location and Surrounding Features

13/12/2006



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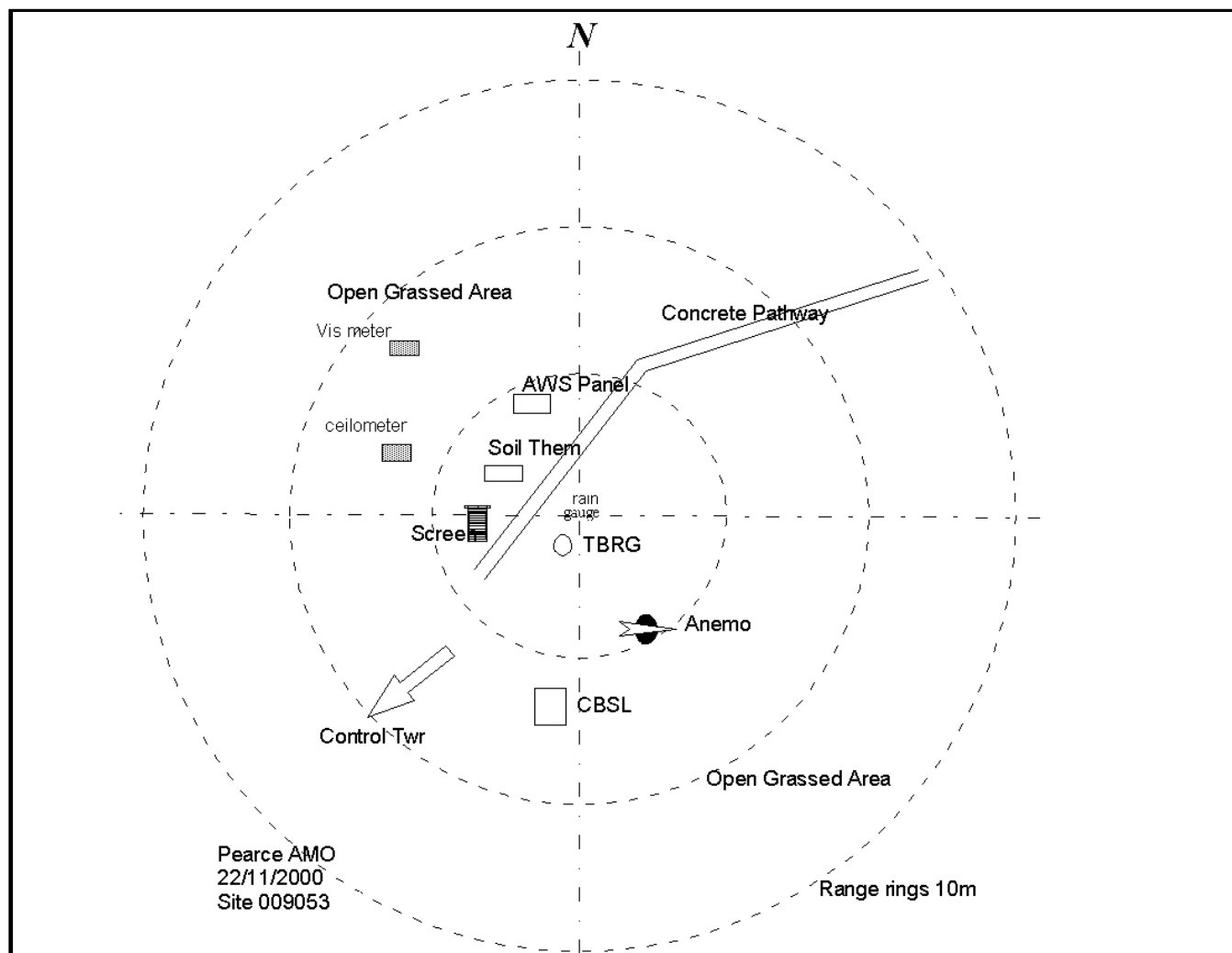
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

25/09/2001



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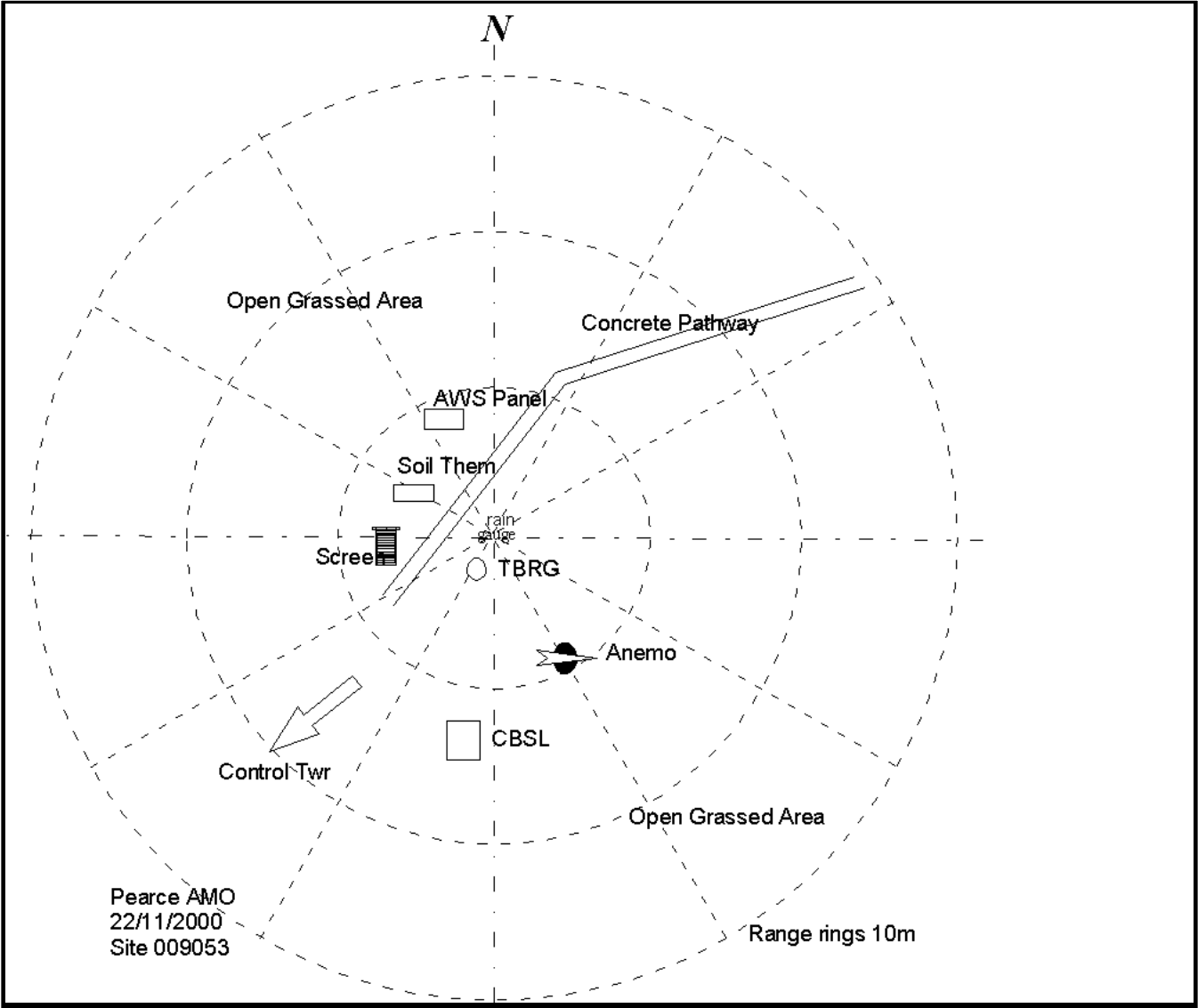
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All History

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Instrument Location and Surrounding Features
22/11/2000



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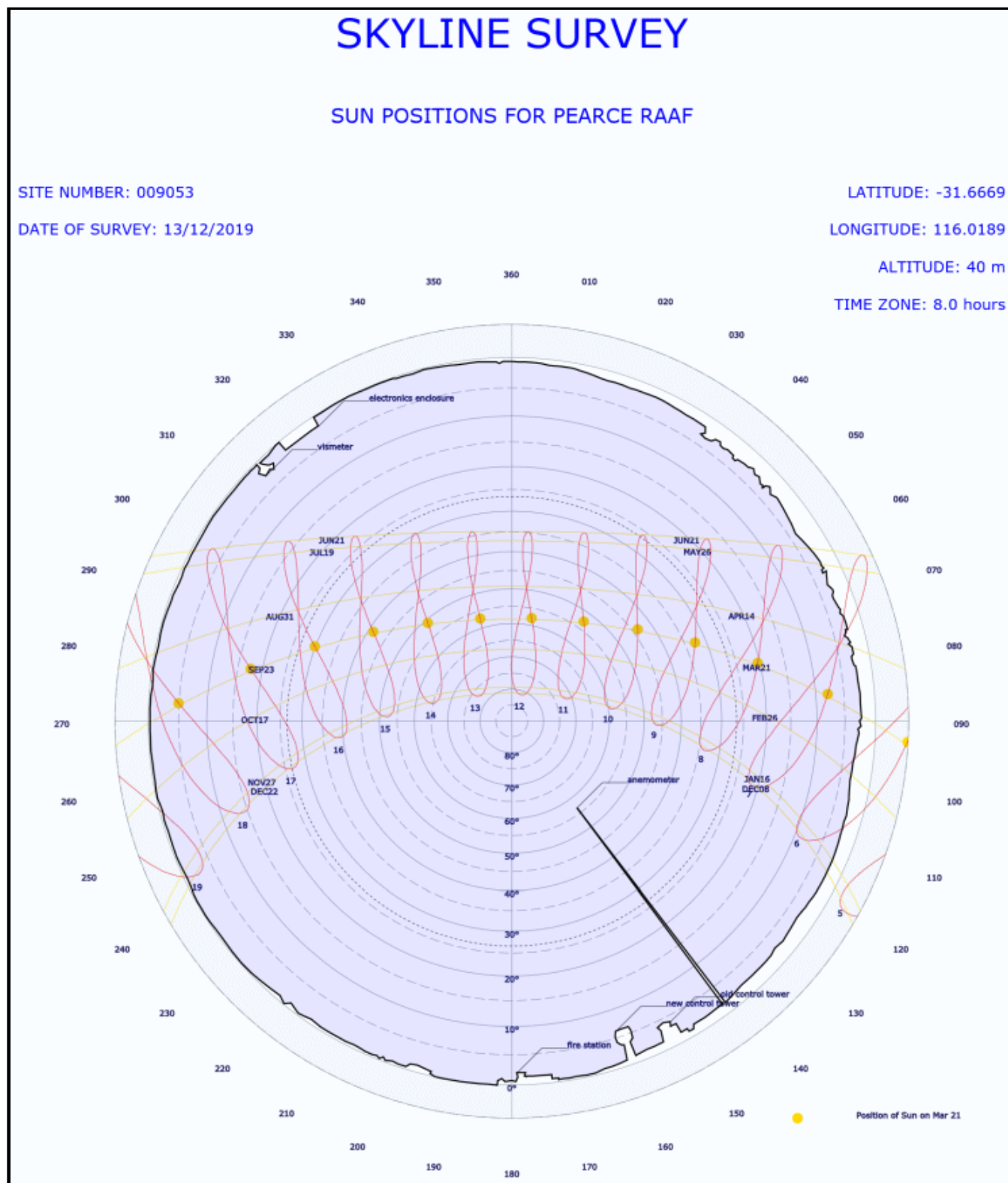
Extended Climatological Station Metadata

All History

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Bureau No.:	009053	WMO No.:	94612	Aviation ID:	YPEA	Opened:	01 Jan 1937	Current Status:	Still open
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Skyline Diagram

13/12/2019(most recent)



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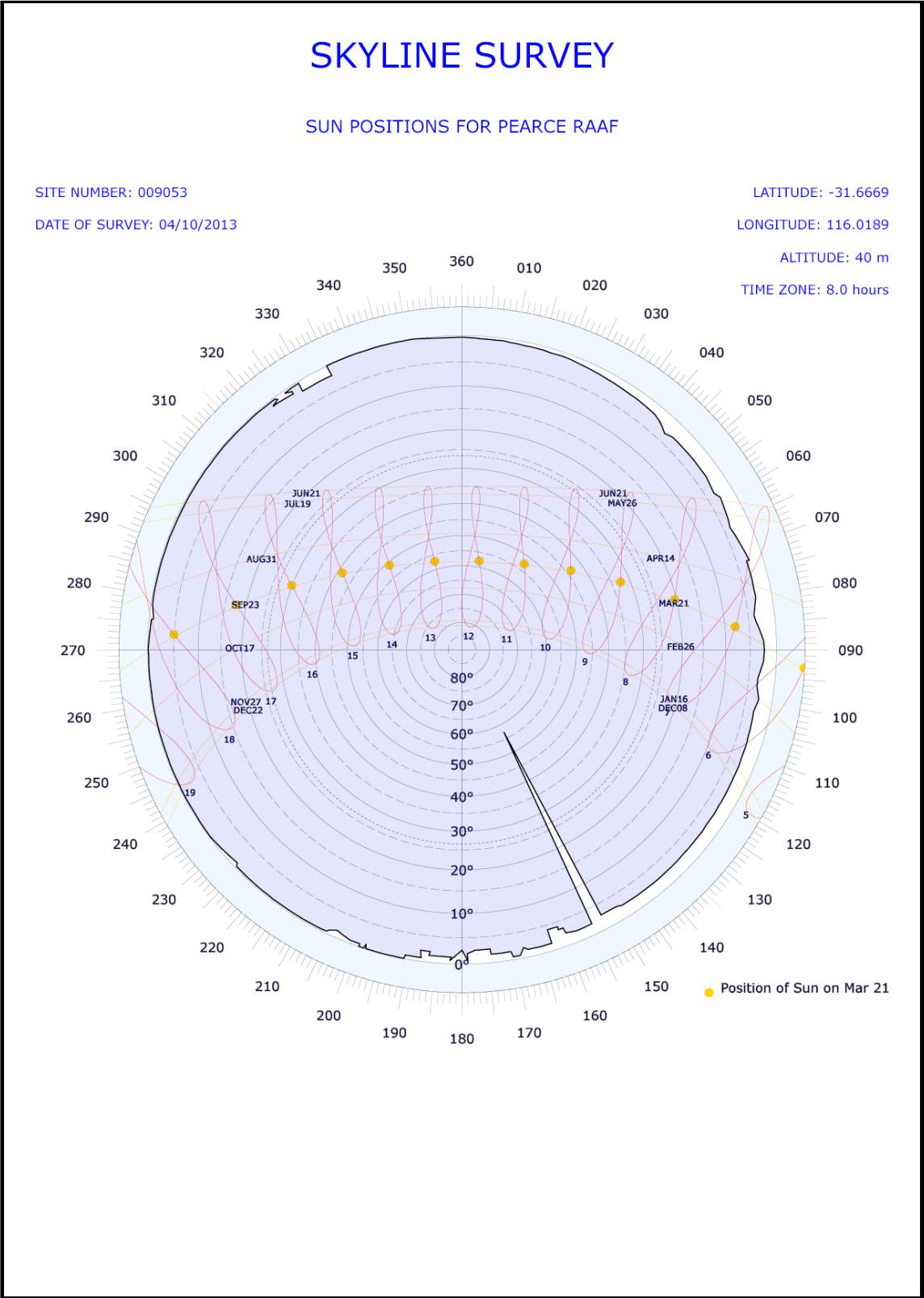
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All History

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Skyline Diagram
04/10/2013



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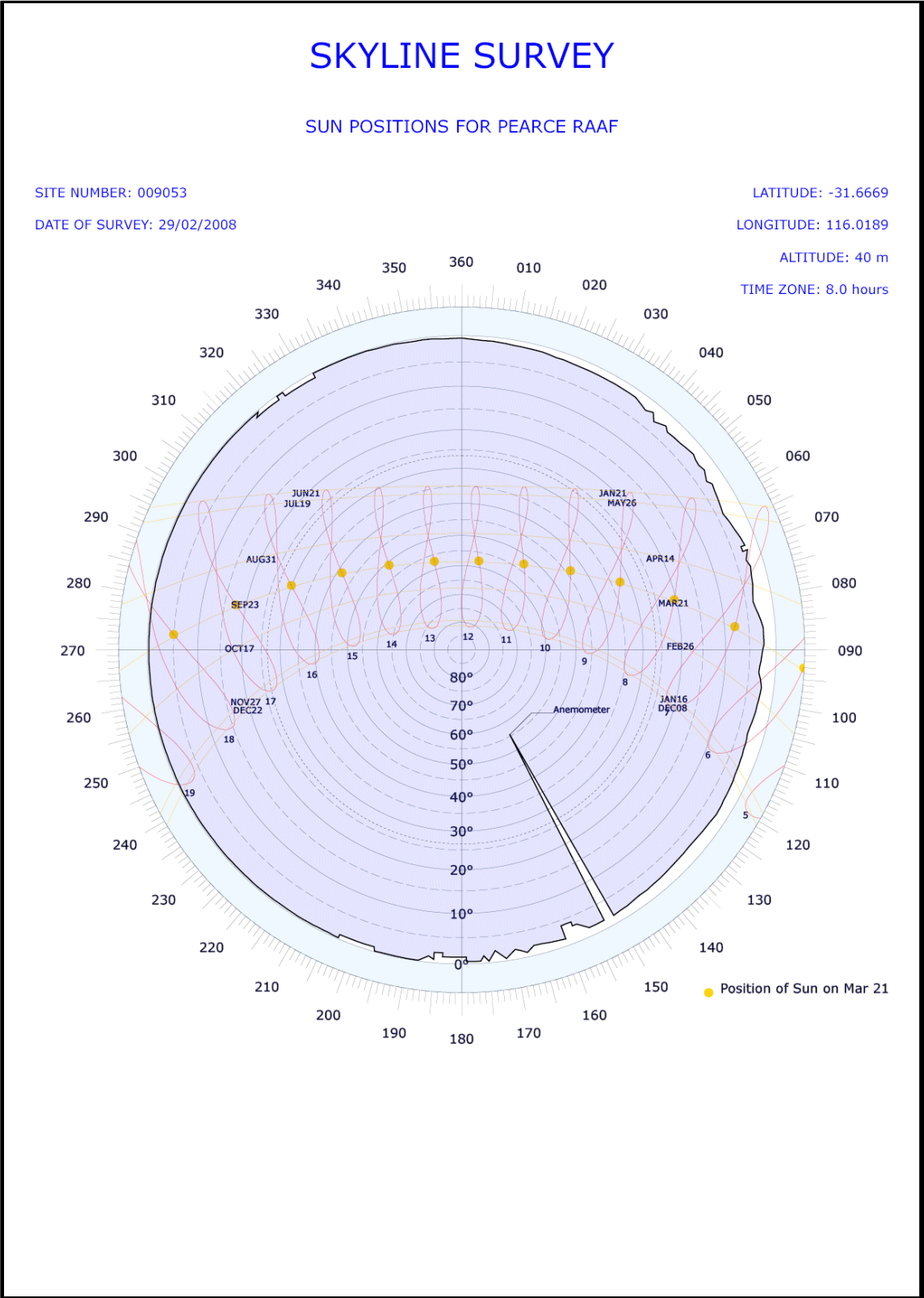
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All History

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Skyline Diagram
29/02/2008



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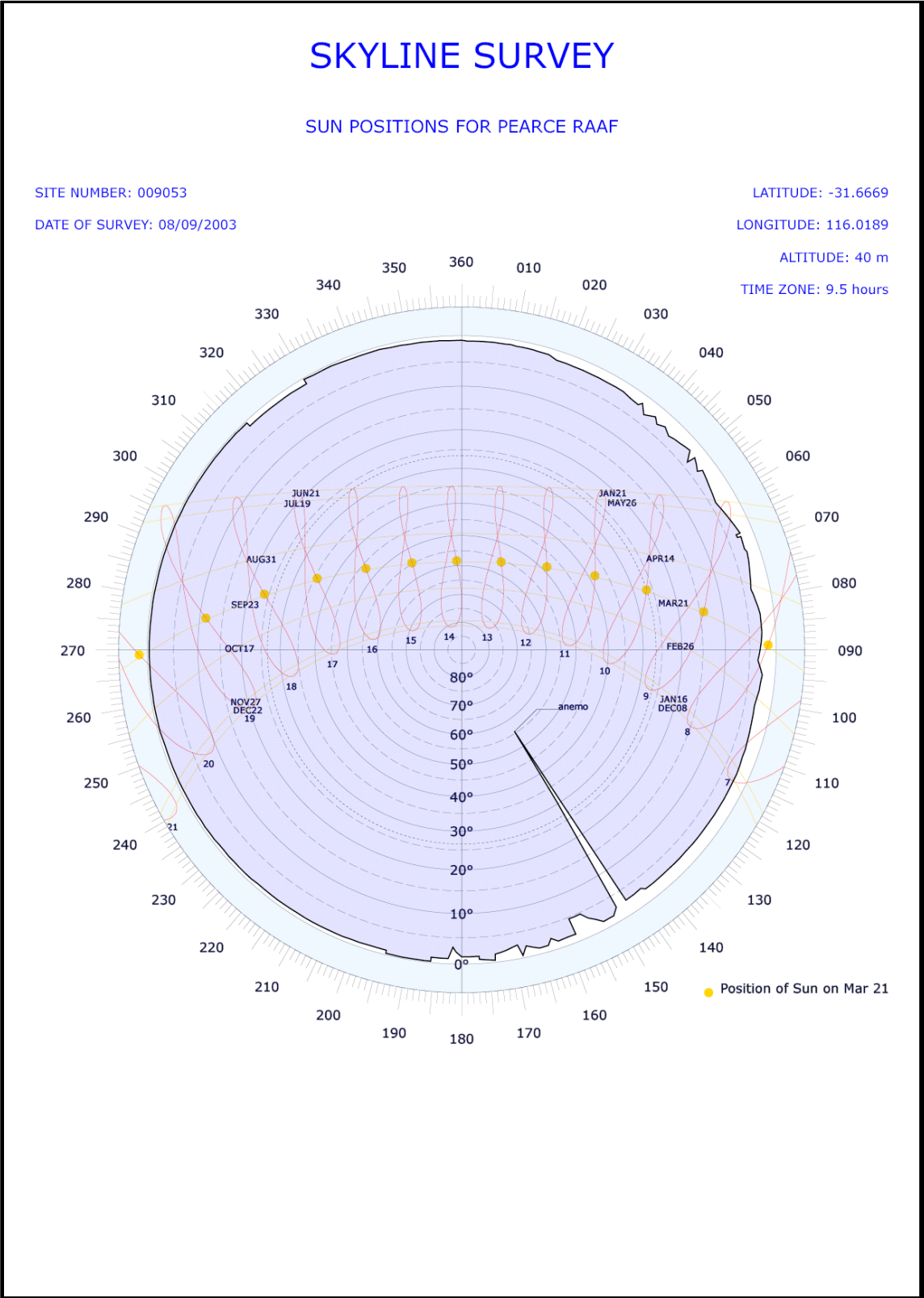
Extended Climatological Station Metadata

All History

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Skyline Diagram

08/09/2003



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Station Observation Program Summary (Surface Observations) from 01/08/1937 to 25/06/1993

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	Y	Y

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

Station Observation Program Summary (Surface Observations) from 25/06/1993 to 28/11/2001

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	Y	Y

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

Station Observation Program Summary (Surface Observations) from 28/11/2001 to 28/04/2016

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

Station Observation Program Summary (Surface Observations) 26 JUL 2025 (most recent)

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

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Station Equipment History

Equipment Install/Remove

Cloud Height

11/MAY/1999 INSTALL Ceilometer (Type Vaisala CT25K S/N - T13202) Surface Observations
11/OCT/2013 REPLACE Ceilometer (Now Vaisala CL31 S/N - J3510008) Surface Observations
28/JUN/2000 REPLACE Ceilometer (Now Vaisala CT25K S/N - T13201) Surface Observations
01/AUG/1937 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - NONE) Surface Observations
11/MAY/1999 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - NONE) Surface Observations

Humidity

22/DEC/1999 INSTALL Humidity Probe (Type Rotronics S/N - 1506-13) Surface Observations
09/AUG/2004 INSTALL Humidity Probe (Type Vaisala HMP45D S/N - Z2040010) Surface Observations
11/MAY/2004 REMOVE Humidity Probe (Type Rotronics S/N - 1506-13) Surface Observations
23/SEP/2014 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - A3140008) Surface Observations
04/JUL/1963 INSTALL Hygrograph (Type Fielden S/N - Unknown) Surface Observations
25/JUN/2003 REMOVE Hygrograph (Type Fielden S/N - Unknown) Surface Observations

Pressure Trend

01/JAN/1972 INSTALL Barograph (Type Weekly S/N - CBM025) Surface Observations
02/AUG/2016 REMOVE Barograph (Type Weekly S/N - CBM025) Surface Observations

Lightning

28/FEB/2008 INSTALL Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - B5050001) Surface Observations

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

04/JUL/1963 INSTALL Anemometer (Type Dines S/N - Unknown) Surface Observations
06/MAR/2018 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 64194) Surface Observations
25/JUN/1993 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 72824/72862) Surface Observations
25/JUN/1999 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - NONE) Infrastructure
25/JUN/1993 REMOVE Anemometer (Type Dines S/N - Unknown) Surface Observations
06/MAR/2018 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 111212) Surface Observations
19/JUL/2017 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 71648) Surface Observations
20/JUN/2017 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 74061) Surface Observations

Wet Bulb Temperature

25/JUN/1993 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations
11/MAY/2004 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations
22/DEC/1999 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations
09/AUG/2004 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations
25/SEP/2001 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 16841) Surface Observations
22/NOV/2018 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 16841) Surface Observations

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

16/MAR/1952 INSTALL Thermometer, Mercury, Max (Type Unknown S/N - Unknown) Surface Observations
28/APR/2016 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - 18838) Surface Observations
29/FEB/2008 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 18838) Surface Observations
28/AUG/2006 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 18838) Surface Observations

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

04/JUL/2005 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 23440) Surface Observations
20/AUG/1999 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M1311) Surface Observations
28/JUN/2007 REPLACE Thermometer, Mercury, Max (Now WIKA S/N - 44424) Surface Observations

Soil Temperature 10cm

05/SEP/1984 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - 9604825) Surface Observations
25/OCT/2017 REMOVE Thermometer, Soil, 10cm (Type Amarol S/N - 0416368) Surface Observations
24/MAY/2013 REPLACE Thermometer, Soil, 10cm (Now Amarol S/N - 0416368) Surface Observations
24/JAN/2012 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - CBM718) Surface Observations
01/NOV/2008 REPLACE Thermometer, Soil, 10cm (Now Unknown S/N - CBM778) Surface Observations

Soil Temperature 20cm

05/SEP/1984 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - 9566392) Surface Observations
25/OCT/2017 REMOVE Thermometer, Soil, 20cm (Type Amarol S/N - 0543839) Surface Observations
08/DEC/2008 REPLACE Thermometer, Soil, 20cm (Now Amarol S/N - 0543839) Surface Observations
24/JAN/2012 REPLACE Thermometer, Soil, 20cm (Now Amarol S/N - 0543839) Surface Observations
12/JUL/2011 REPLACE Thermometer, Soil, 20cm (Now Amarol S/N - 0967-14-3) Surface Observations
31/JAN/2005 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 0398738) Surface Observations
27/FEB/2004 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 9604825) Surface Observations
04/JUL/2005 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - Unknown) Surface Observations

Soil Temperature 50cm

05/SEP/1984 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - CBM269) Surface Observations
25/OCT/2017 REMOVE Thermometer, Soil, 50cm (Type Dobros S/N - R3727) Surface Observations
24/JAN/2012 REPLACE Thermometer, Soil, 50cm (Now Dobros S/N - R3727) Surface Observations

Snow Height (No Electronic History)

Soil Temperature 100cm

05/SEP/1984 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - CBM216) Surface Observations
25/OCT/2017 REMOVE Thermometer, Soil, 100cm (Type Dobros S/N - CBM395) Surface Observations
11/DEC/2012 REPLACE Thermometer, Soil, 100cm (Now Dobros S/N - CBM395) Surface Observations
24/JAN/2012 REPLACE Thermometer, Soil, 100cm (Now Dobros S/N - M0988) Surface Observations

Sunshine Hours (No Electronic History)

Wind Run (No Electronic History)

Minimum Temperature

16/MAR/1952 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - M1565) Surface Observations
28/APR/2016 REMOVE Thermometer, Alcohol, Min (Type WIKA S/N - 31179) Surface Observations
30/OCT/2008 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 19034) Surface Observations
29/FEB/2008 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 19034) Surface Observations
28/JUN/2007 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 22118) Surface Observations
04/JUL/2005 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 25914) Surface Observations
10/OCT/2008 REPLACE Thermometer, Alcohol, Min (Now WIKA S/N - 27596) Surface Observations
24/JAN/2012 REPLACE Thermometer, Alcohol, Min (Now WIKA S/N - 31179) Surface Observations
03/MAY/2010 REPLACE Thermometer, Alcohol, Min (Now WIKA S/N - 31242) Surface Observations

Terrestrial Minimum Temperature

01/AUG/1937 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - CBM4539) Surface Observations
13/NOV/2012 INSTALL Thermometer, Terrestrial, Min (Type WIKA S/N - 32930) Surface Observations

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Extended Climatological Station Metadata

All History

Station:	PEARCE RAAF		Location:	PEARCE RAAF		State:	WA
Bureau No.:	009053	WMO No.:	94612	Aviation ID:	YPEA	Opened:	01 Jan 1937
Latitude:	-31.6669	Longitude:	116.0189	Elevation:	40 m	Barometer Elev:	46.2 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

07/NOV/2012 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - M7014) Surface Observations
28/APR/2016 REMOVE Thermometer, Terrestrial, Min (Type WIKA S/N - 29041) Surface Observations
30/OCT/2008 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 15683) Surface Observations
29/FEB/2008 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 15683) Surface Observations
28/JUN/2007 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19034) Surface Observations
10/OCT/2008 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19469) Surface Observations
12/MAR/2009 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19469) Surface Observations
28/FEB/2006 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 21858) Surface Observations
31/JAN/2005 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - CBM4021) Surface Observations
24/JAN/2012 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M7014) Surface Observations
03/DEC/2013 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 29041) Surface Observations
25/FEB/2010 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 31179) Surface Observations
24/APR/2013 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 32978) Surface Observations

Visibility

11/MAY/1999 INSTALL Visibility Meter (Type Vaisala FD12 S/N - T49301) Surface Observations
14/SEP/2016 REPLACE Visibility Meter (Now Vaisala FS11 S/N - L4010404) 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 (No Electronic History)

Total Column Ozone Amount (No Electronic History)

Pressure

01/APR/1953 INSTALL Barometer (Type Kew pattern mercury S/N - 1842) Surface Observations
03/JUN/1993 INSTALL Barometer (Type Vaisala PA11A S/N - 458222) Surface Observations
03/JUL/2012 INSTALL Barometer (Type Vaisala PTB330B (General Use) S/N - G2970056) Surface Observations
25/JUN/1993 REMOVE Barometer (Type Unknown S/N - Unknown) Surface Observations
03/JUL/2012 REMOVE Barometer (Type Vaisala PA11A S/N - T1110015) Surface Observations
01/JAN/1957 REPLACE Barometer (Now Unknown S/N - Unknown) Surface Observations
01/JAN/1995 REPLACE Barometer (Now Vaisala PA11A S/N - 458216) Surface Observations
08/MAY/1997 REPLACE Barometer (Now Vaisala PA11A S/N - 679518) Surface Observations
02/AUG/2007 REPLACE Barometer (Now Vaisala PA11A S/N - T1110015) Surface Observations

Evaporation (No Electronic History)

Rainfall

05/SEP/1984 INSTALL Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
26/JUL/1996 REMOVE Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
01/AUG/1937 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
25/JUN/1993 INSTALL Raingauge (Type HS TB3A-0.2 S/N - 95-112) Surface Observations
19/JAN/2021 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
13/DEC/2006 REPLACE Raingauge (Now 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
24/AUG/2000 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 621) Rainfall Intensity
24/AUG/2000 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 621) Surface Observations
26/JUL/1996 SHARE Raingauge (Type HS TB3A-0.2 S/N - 95-112) Rainfall Intensity

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Extended Climatological Station Metadata
All History

Station:	PEARCE RAAF		Location:	PEARCE RAAF		State:	WA
Bureau No.:	009053	WMO No.:	94612	Aviation ID:	YPEA	Opened:	01 Jan 1937
Latitude:	-31.6669	Longitude:	116.0189	Elevation:	40 m	Barometer Elev:	46.2 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

13/DEC/2019 UNSHARE Raingauge (Type Rimco TBRG (type unspecified) S/N - 621) 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

04/JUL/1963 INSTALL Anemometer (Type Dines S/N - Unknown) Surface Observations

06/MAR/2018 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 64194) Surface Observations

25/JUN/1993 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 72824/72862) Surface Observations

25/JUN/1999 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - NONE) Infrastructure

25/JUN/1993 REMOVE Anemometer (Type Dines S/N - Unknown) Surface Observations

06/MAR/2018 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 111212) Surface Observations

19/JUL/2017 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 71648) Surface Observations

20/JUN/2017 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 74061) Surface Observations

Air Temperature

22/DEC/1999 INSTALL Humidity Probe (Type Rotronics S/N - 1506-13) Surface Observations

09/AUG/2004 INSTALL Humidity Probe (Type Vaisala HMP45D S/N - Z2040010) Surface Observations

11/MAY/2004 REMOVE Humidity Probe (Type Rotronics S/N - 1506-13) Surface Observations

23/SEP/2014 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - A3140008) Surface Observations

25/JUN/1993 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - NONE) Surface Observations

12/JUL/2012 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - 10255) Surface Observations

01/AUG/1937 INSTALL Thermograph (Type Fielden S/N - Unknown) Surface Observations

17/JAN/1991 REMOVE Thermograph (Type Fielden S/N - Unknown) Surface Observations

16/MAR/1952 INSTALL Thermometer, Mercury, Dry Bulb (Type Unknown S/N - Unknown) Surface Observations

28/APR/2016 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - S1508) Surface Observations

20/AUG/1999 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - S1508) 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 mutli-stage quality control process.

Available Date Range	Element	Fail Field Performance Check
30/MAR/2001 - 14/MAY/2021	Cloud Height	0
22/DEC/1999 - 14/MAY/2021	Humidity	3
08/SEP/2003 - 04/OCT/2013	Pressure Trend	0
13/JUN/2012 - 10/JUL/2013	Lightning	1
22/JUL/1998 - 14/MAY/2021	Wind Direction	2
22/JUL/1998 - 04/OCT/2013	Wet Bulb Temperature	4
22/NOV/2000 - 05/SEP/2014	Maximum Temperature	0

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Extended Climatological Station Metadata

All History

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Bureau No.:	009053	WMO No.:	94612	Aviation ID:	YPEA	Opened:	01 Jan 1937
Latitude:	-31.6669	Longitude:	116.0189	Elevation:	40 m	Barometer Elev:	46.2 m
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Station Equipment History (continued)

Available Date Range	Element	Fail Field Performance Check
22/NOV/2000 - 05/SEP/2014	Soil Temperature 10cm	1
22/NOV/2000 - 05/SEP/2014	Soil Temperature 20cm	1
22/NOV/2000 - 05/SEP/2014	Soil Temperature 50cm	1
22/NOV/2000 - 05/SEP/2014	Soil Temperature 100cm	1
22/NOV/2000 - 05/SEP/2014	Minimum Temperature	2
22/NOV/2000 - 05/SEP/2014	Terrestrial Minimum Temperature	3
30/MAR/2001 - 14/MAY/2021	Visibility	2
22/JUL/1998 - 14/MAY/2021	Pressure	7
22/JUL/1998 - 14/MAY/2021	Rainfall	6
22/JUL/1998 - 14/MAY/2021	Wind Speed	2
22/JUL/1998 - 14/MAY/2021	Air Temperature	4

Station Detail Changes

01/JUL/2011 CLASSIFICATION AWS Funding - Defence Aviation (FDF)
01/FEB/2021 CLASSIFICATION AWS Priority 3 - Standard (SLP3-AWS)
09/MAY/2006 CLASSIFICATION Category B (TAF B)
10/JAN/2011 CLASSIFICATION Critical (ASOSCRIT)
10/AUG/2020 CLASSIFICATION Critical Aviation or Defence (AVCRIT) ENDED 16-10-2020
01/JAN/2016 CLASSIFICATION Critical Defence (DEFSCRIT) ENDED 16-10-2020
25/JUN/1993 CLASSIFICATION Fielden (FFD)
10/JUN/2014 CLASSIFICATION Important Aviation or Defence (AVIMP) ENDED 16-10-2020
01/JUL/1998 CLASSIFICATION Local Forecasting, Information and Observations (WSO)
27/SEP/2021 CLASSIFICATION Mastered in EAMS (EAMS)
21/MAR/2016 CLASSIFICATION NOT Processed by ASOS (NPBA)
01/JUL/2017 CLASSIFICATION Observing Operations Hub - Perth (OOH-P)
01/JAN/1937 CLASSIFICATION Restricted Images (XIMG)
01/JUL/1998 CLASSIFICATION Surface Observations only (SO)
13/DEC/2019 OBJECT Document/009053191213_mast inspection
18/JUL/2013 OBJECT Document/2013-04-30- BOM 3G routers on Defence sites additional locations response - BOM (2)
16/MAY/2013 OBJECT Document/2013-04-30- BOM 3G routers on Defence sites response - BOM
12/MAY/2015 OBJECT Document/ASBESTOS REGISTER
23/JUN/2015 OBJECT Document/ASBESTOS REGISTER
30/AUG/2016 OBJECT Document/AWS SITE AUDIT
02/AUG/2016 OBJECT Document/CEILOMETER STATUS
06/MAR/2018 OBJECT Document/CEILOMETER STATUS
22/NOV/2018 OBJECT Document/CEILOMETER STATUS
10/JUL/2019 OBJECT Document/CEILOMETER STATUS
31/JUL/2014 OBJECT Document/CEILOMETER STATUS
13/DEC/2019 OBJECT Document/CEILOMETER STATUS
14/MAY/2021 OBJECT Document/CEILOMETER STATUS
25/OCT/2017 OBJECT Document/CEILOMETER STATUS
29/AUG/2011 OBJECT Document/CEILOMETER STATUS
16/MAY/2013 OBJECT Document/Intro of 3G on Defence Bases

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Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

09/JUN/2009 OBJECT Document/Joey Rawson Authorised Observer Certificate
05/MAY/2015 OBJECT Document/PROFILER ANTENNA TUNING TEMPLATE
30/AUG/2016 OBJECT Document/Pearce RAAF 009053 - ASOS Station Configuration Form
09/JAN/2009 OBJECT Document/Pearce RAAF Early History
04/OCT/2013 OBJECT Document/SKYLINE DATA
13/DEC/2019 OBJECT Document/SKYLINE DATA
08/SEP/2003 OBJECT Document/SKYLINE DATA
29/FEB/2008 OBJECT Document/SKYLINE DATA
19/SEP/2016 OBJECT Document/VISIBILITY METER STATUS
06/MAR/2018 OBJECT Document/VISIBILITY METER STATUS
22/NOV/2018 OBJECT Document/VISIBILITY METER STATUS
10/JUL/2019 OBJECT Document/VISIBILITY METER STATUS
31/JUL/2014 OBJECT Document/VISIBILITY METER STATUS
13/DEC/2019 OBJECT Document/VISIBILITY METER STATUS
14/MAY/2021 OBJECT Document/VISIBILITY METER STATUS
14/SEP/2016 OBJECT Document/VISIBILITY METER STATUS
29/AUG/2011 OBJECT Document/VISIBILITY METER STATUS
01/JAN/1937 STATION - (nondb seeding) Opened
01/JAN/1937 STATION - (nondb seeding) aero_ht Changed to 45.4
01/JAN/1937 STATION - (nondb seeding) name Changed to PEARCE RAAF
01/JAN/1937 STATION - (nondb seeding) stn_ht Changed to 40
01/JAN/1937 STATION - (nondb seeding) stn_ht_deriv Changed to SURVEY
01/JAN/1937 STATION - (nondb seeding) wmo_num Changed to 94612
31/OCT/1997 STATION aviation_id Changed to YPEA
15/FEB/2017 STATION bar_ht Changed to 46.2
01/JAN/1937 STATION bar_ht Changed to 54
15/FEB/2017 STATION bar_ht_deriv Changed to SURVEY
01/JAN/1937 STATION bar_ht_deriv Changed to Unknown
08/SEP/2003 STATION latitude Changed to -31.6669GPS using WGS84
01/JAN/1937 STATION latitude Changed to -31.6669Seeded from NonDb
01/JAN/1937 STATION latlon_deriv Changed to GPS
08/SEP/2003 STATION latlon_deriv Changed to GPS
08/SEP/2003 STATION longitude Changed to 116.0189GPS using WGS84
01/JAN/1937 STATION longitude Changed to 116.0189Seeded from NonDb
22/NOV/2000 STATION lu_0_100m Changed to Airport
22/NOV/2000 STATION lu_100m_1km Changed to Airport
22/NOV/2000 STATION lu_1km_10km Changed to Open farmland, grassland or tundra
22/NOV/2000 STATION soil_type Changed to sand
08/SEP/2003 STATION surface_type Changed to fully covered by grass
22/NOV/2000 STATION surface_type Changed to mostly covered by grass

System Changes

19/OCT/2018 SYSTEM Flood Warning Commenced
25/JUN/1999 SYSTEM Infrastructure Commenced

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Extended Climatological Station Metadata
All History

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Bureau No.:	009053	WMO No.:	94612	Aviation ID:	YPEA	Opened:	01 Jan 1937	Current Status:	Still open
Latitude:	-31.6669	Longitude:	116.0189	Elevation:	40 m	Barometer Elev:	46.2 m	Metadata compiled:	26 JUL 2025

Station Equipment History (continued)

System Changes(Continued)

13/DEC/2019 SYSTEM Rainfall Intensity Ceased
05/SEP/1984 SYSTEM Rainfall Intensity Commenced
01/AUG/1937 SYSTEM Surface Observations Commenced
26/JUN/1952 SYSTEM Upper Air Ceased
14/MAY/1945 SYSTEM Upper Air Commenced

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Notes on these metadata

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

Reliability of the metadata

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

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

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

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

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

Station Number

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

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

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Notes on these metadata

Network Classification

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

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

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Notes on these metadata

Network Classification Continued....

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

Station Purpose

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

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

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

Station Observation Program Summary

Surface Observations

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

Set a)

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

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Notes on these metadata

Surface observations continued....

Set b)

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

Current Station Equipment Summary

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

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

Station Equipment History

Equipment Install/Remove

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

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

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

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

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

Unshare - The instrument is no longer shared between systems

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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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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