



Basic Climatological Station Metadata
Current status

Metadata compiled: 26 JUL 2025

Station: CARNARVON AIRPORT

Bureau of Meteorology station number: 006011
Bureau of Meteorology district name: West Gascoyne
State: WA

World Meteorological Organization number: 94300
Identification: YCAR

Network Classification: CLIMAT Stations, GCOS Surface Network, Regional
Basic Synoptic Network

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



Current Station Location				
Latitude	Decimal	-24.8878	Hour Min Sec	24°53'16"S
Longitude	Decimal	113.6700	Hour Min Sec	113°40'12"E
Station Height	4 m	Barometer Height	4.5 m	
Method of station geographic positioning			GPS	

Year opened: 1945
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: CARNARVON AIRPORT			Location: CARNARVON AIRPORT			State: WA	
Bureau No.: 006011	WMO No.: 94300	Aviation ID: YCAR	Opened: 01 Jan 1945		Current Status: Still open		
Latitude: -24.8878	Longitude: 113.6700	Elevation: 4 m	Barometer Elev: 4.5 m		Metadata compiled: 26 JUL 2025		

Observation summary

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



DAILY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
EVAPORATION	JAN 1966	OCT 2020	92.5	1286	7
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	JAN 1969	AUG 2014	90.7	394	38
GROUND MINIMUM TEMPERATURE	JAN 1966	OCT 2020	94.0	1163	1
MAXIMUM AIR TEMPERATURE	JAN 1945	JUN 2025	97.0	278	19
MAXIMUM WIND GUST SPEED	MAY 1953	JUN 2025	99.0	211	1
WIND RUN ABOVE 10 FEET	MAY 1992	JUN 2025	96.8	324	2
WIND RUN BELOW 10 FEET	JAN 1969	OCT 2020	93.3	1017	8
RAINFALL	JAN 1945	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	JAN 1945	JUN 2025	98.2	8.4	196	0
DEW POINT	JAN 1945	JUN 2025	97.9	8.4	231	2
MEAN SEA LEVEL PRESSURE	JUN 1951	JUN 2025	98.9	8.7	72	0
PRECIPITATION SINCE LAST OBS	JAN 1960	AUG 1999	75.7	5.6	3080	4
SOIL TEMPERATURE - 10cm	NOV 1986	OCT 2020	48.2	4.3	889	163
TOTAL CLOUD AMOUNT	JAN 1945	JUN 2025	91.5	6.1	1178	0
WIND SPEED	JAN 1945	JUN 2025	98.5	8.6	185	0
UPPER AIR TEMPERATURE	JUL 1961	JUL 1988	90.4	1.1	569	0
UPPER AIR WIND SPEED	JAN 1950	OCT 2012	88.9	3.6	177	15

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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 1956	APR 2018	84.6	1699	59

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	AUG 2002	JUL 2025	99.2	1429.2	N/A	0

HALF-HOURLY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	DEC 1993	JUL 2025	101.1	48.5	N/A	3

UPPER-AIR EDT DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
Wind only flights	Mar 2005	Oct 2012	N/A	2.2	162	1

Holdings calculated up to 01 Jul 2025

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

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

Unlisted element

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

Listed element to use

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

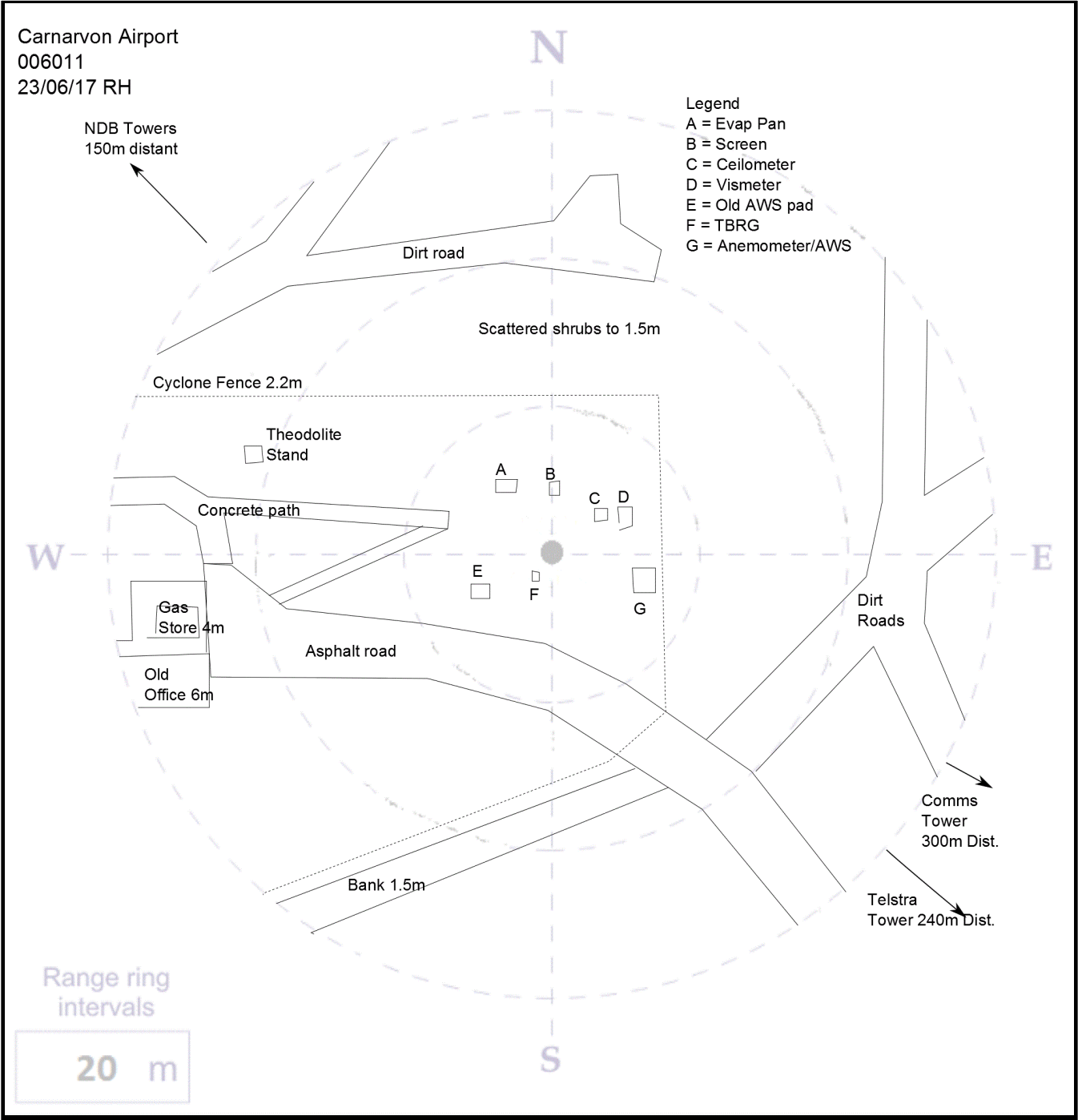
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Extended Climatological Station Metadata
All History

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Bureau No.:	006011	WMO No.:	94300	Aviation ID:	YCAR	Opened:	01 Jan 1945
Latitude:	-24.8878	Longitude:	113.6700	Elevation:	4 m	Barometer Elev:	4.5 m
						Current Status:	Still open
						Metadata compiled:	26 JUL 2025

Instrument Location and Surrounding Features
23/06/2017(most recent)



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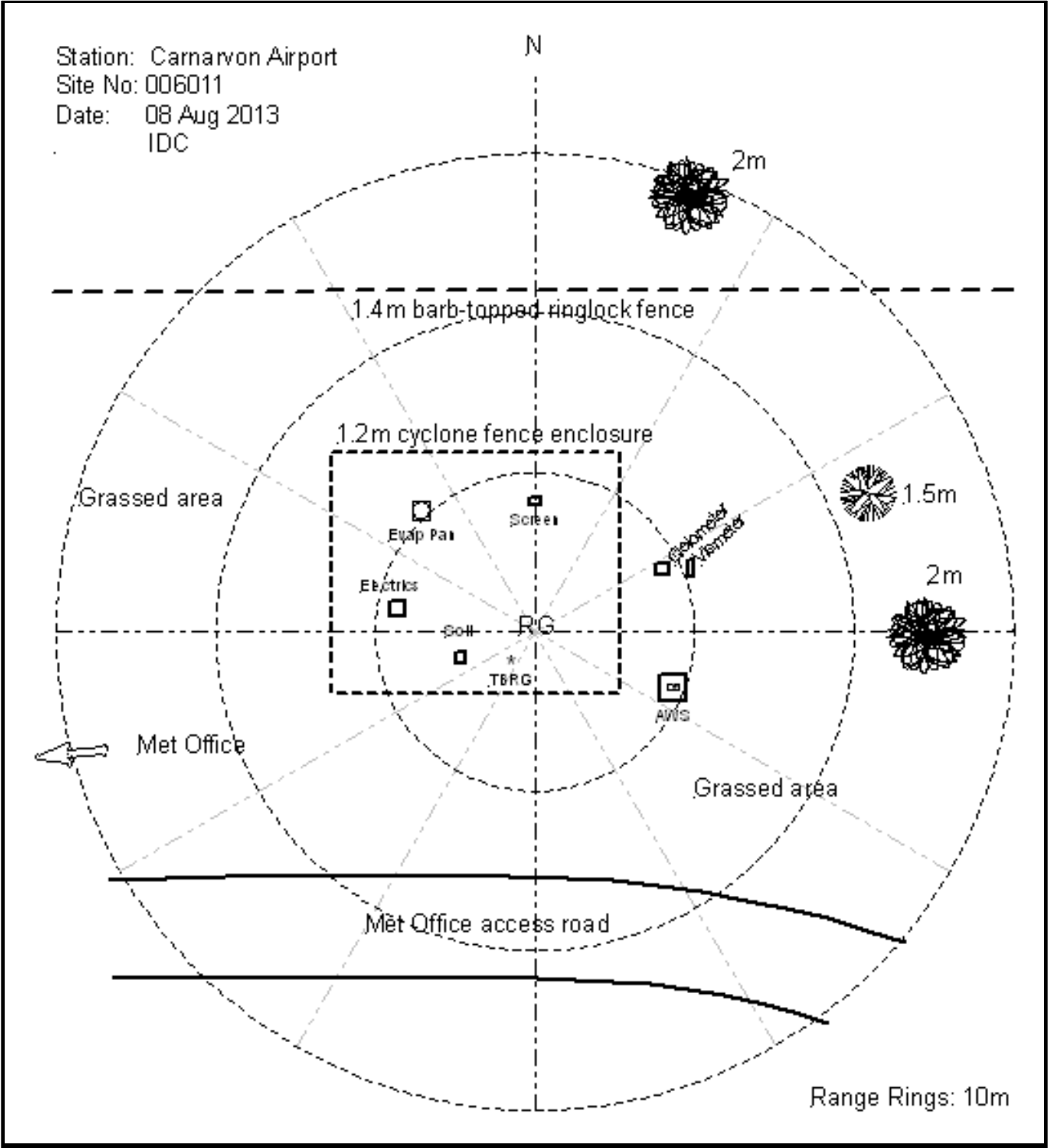
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All History

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Instrument Location and Surrounding Features
08/08/2013



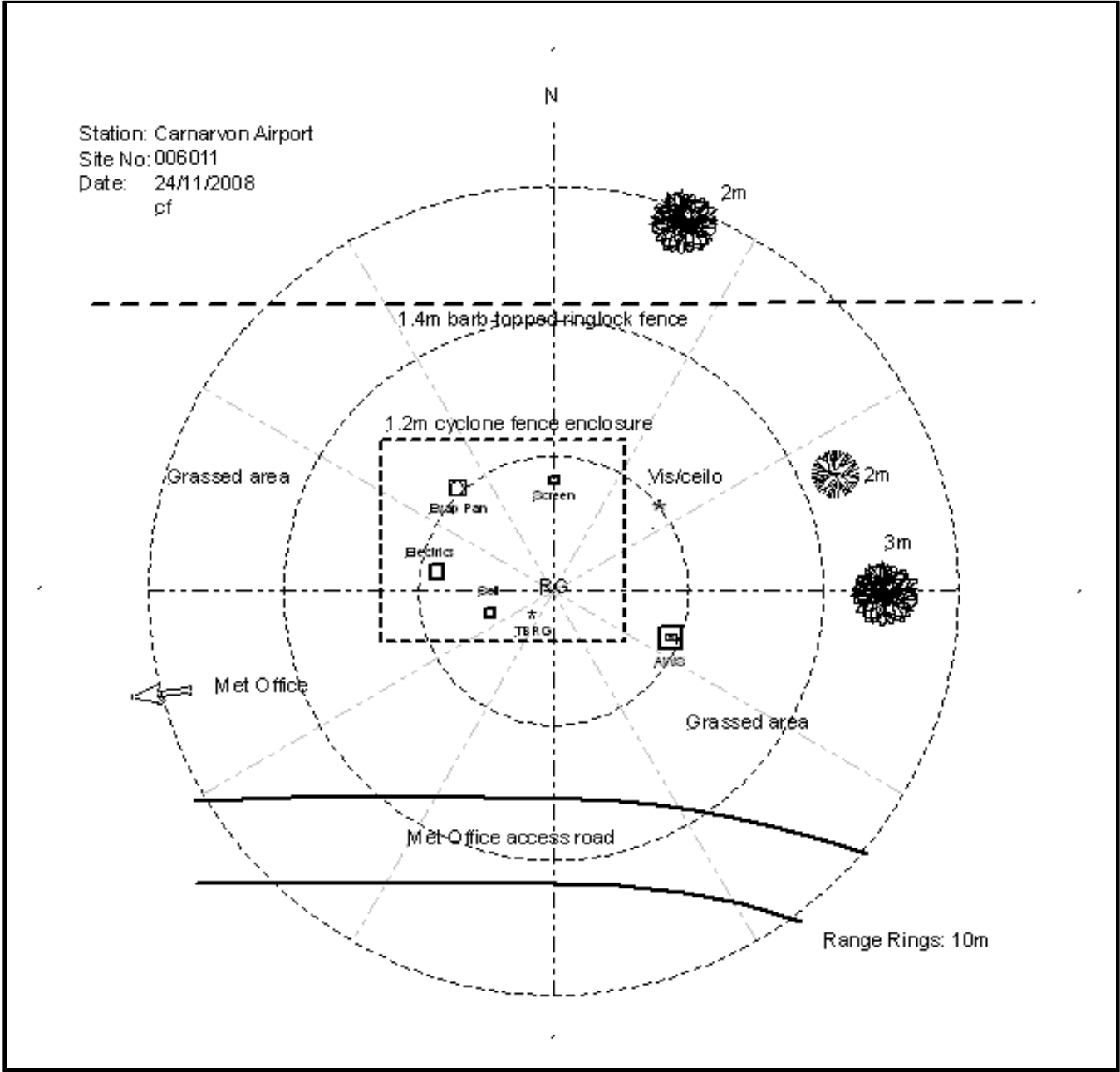
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Instrument Location and Surrounding Features
24/11/2008



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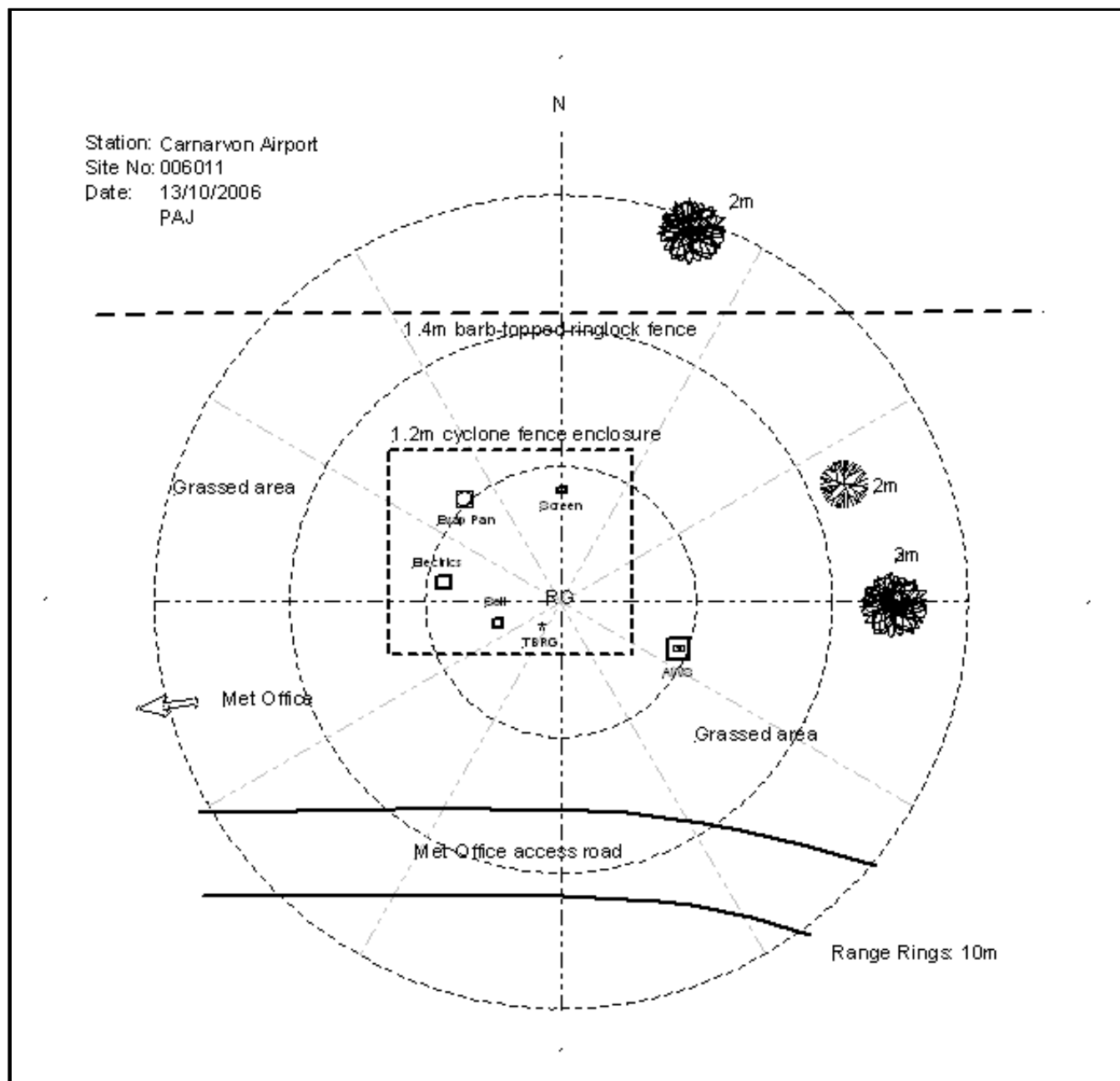
Extended Climatological Station Metadata

All History

Station:	CARNARVON AIRPORT			Location:	CARNARVON AIRPORT		State:	WA	
Bureau No.:	006011	WMO No.:	94300	Aviation ID:	YCAR	Opened:	01 Jan 1945	Current Status:	Still open
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Instrument Location and Surrounding Features

13/10/2006



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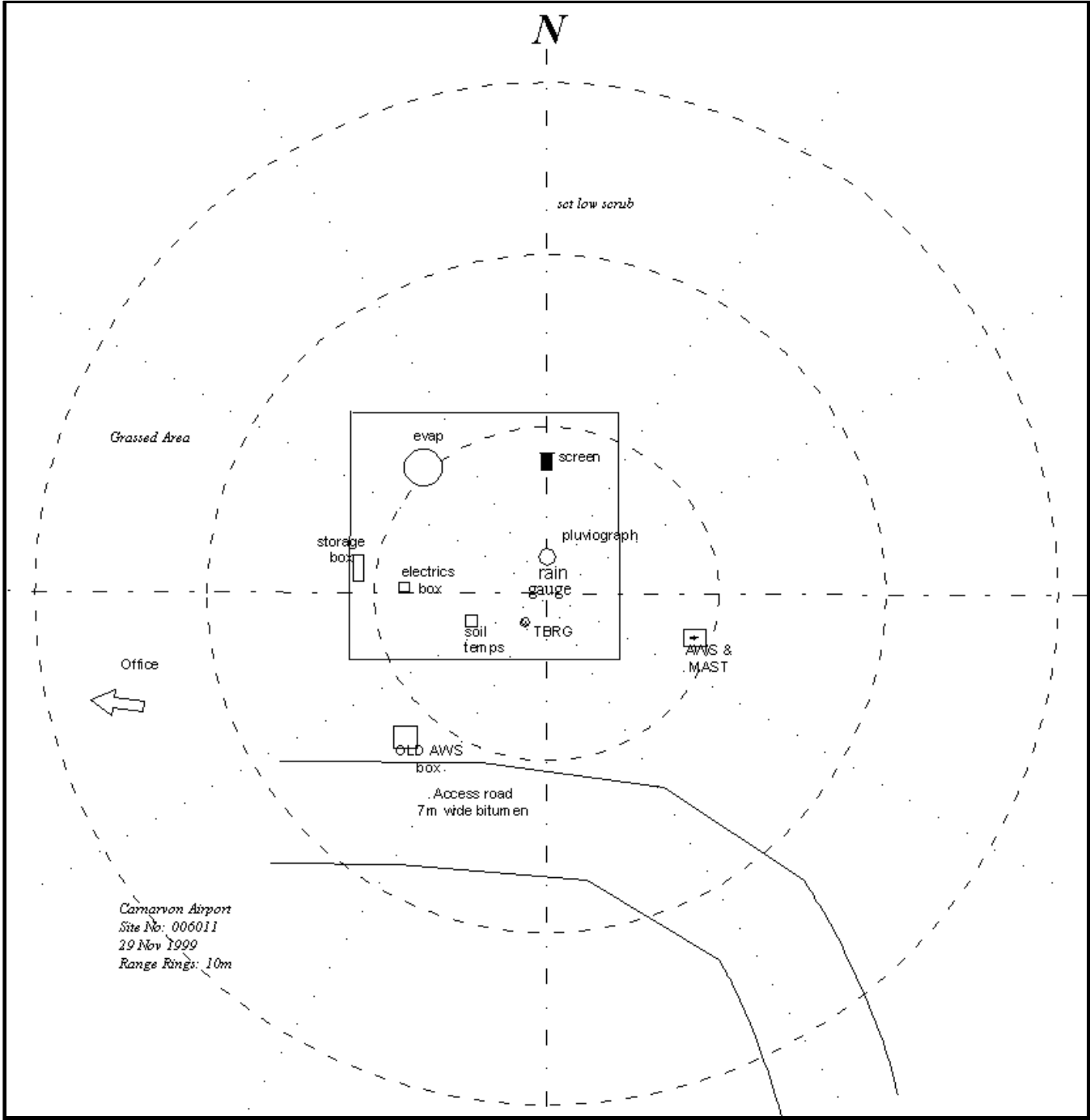
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Extended Climatological Station Metadata
All History

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Instrument Location and Surrounding Features
29/11/1999



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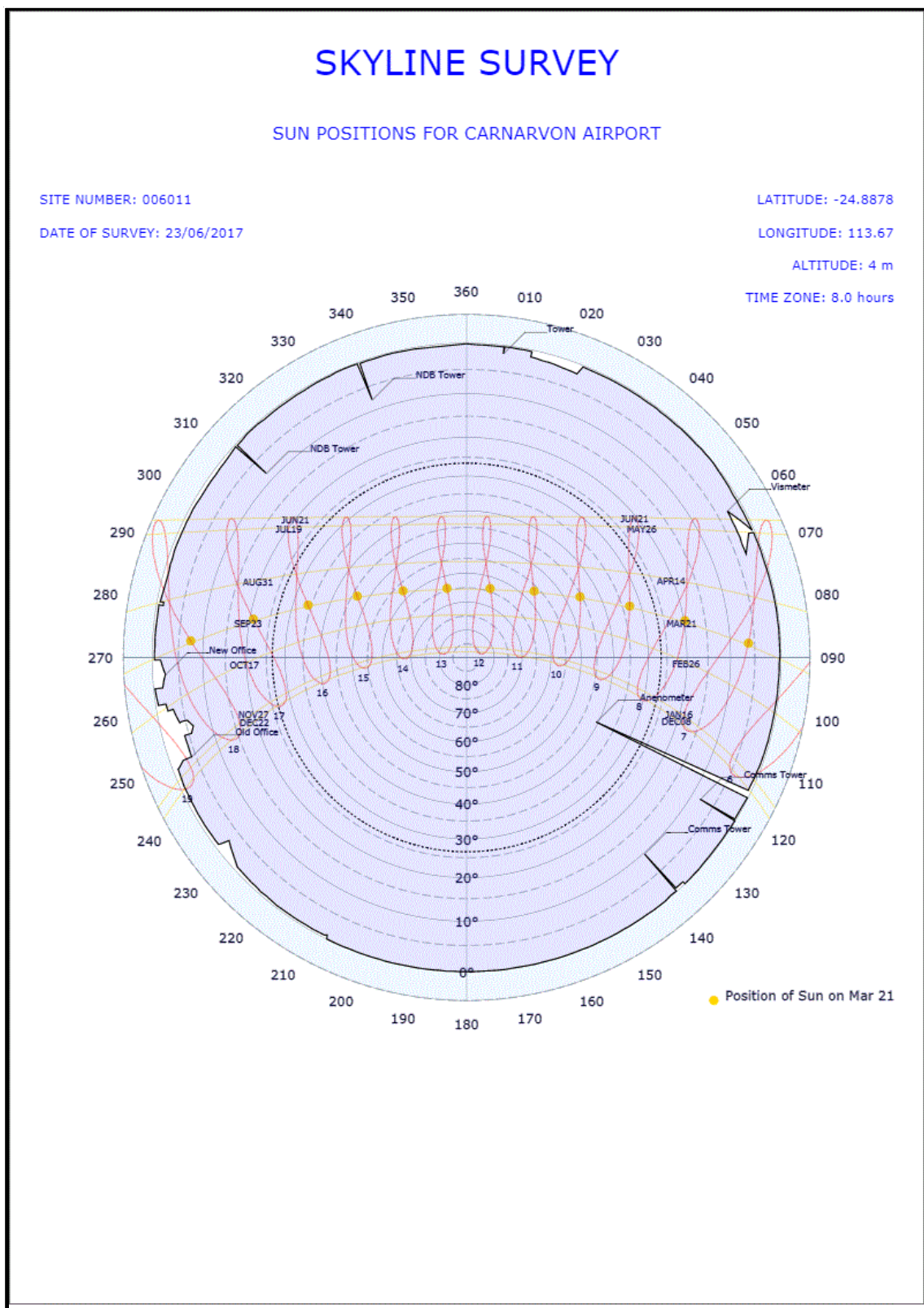
Extended Climatological Station Metadata

All History

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Skyline Diagram

23/06/2017(most recent)



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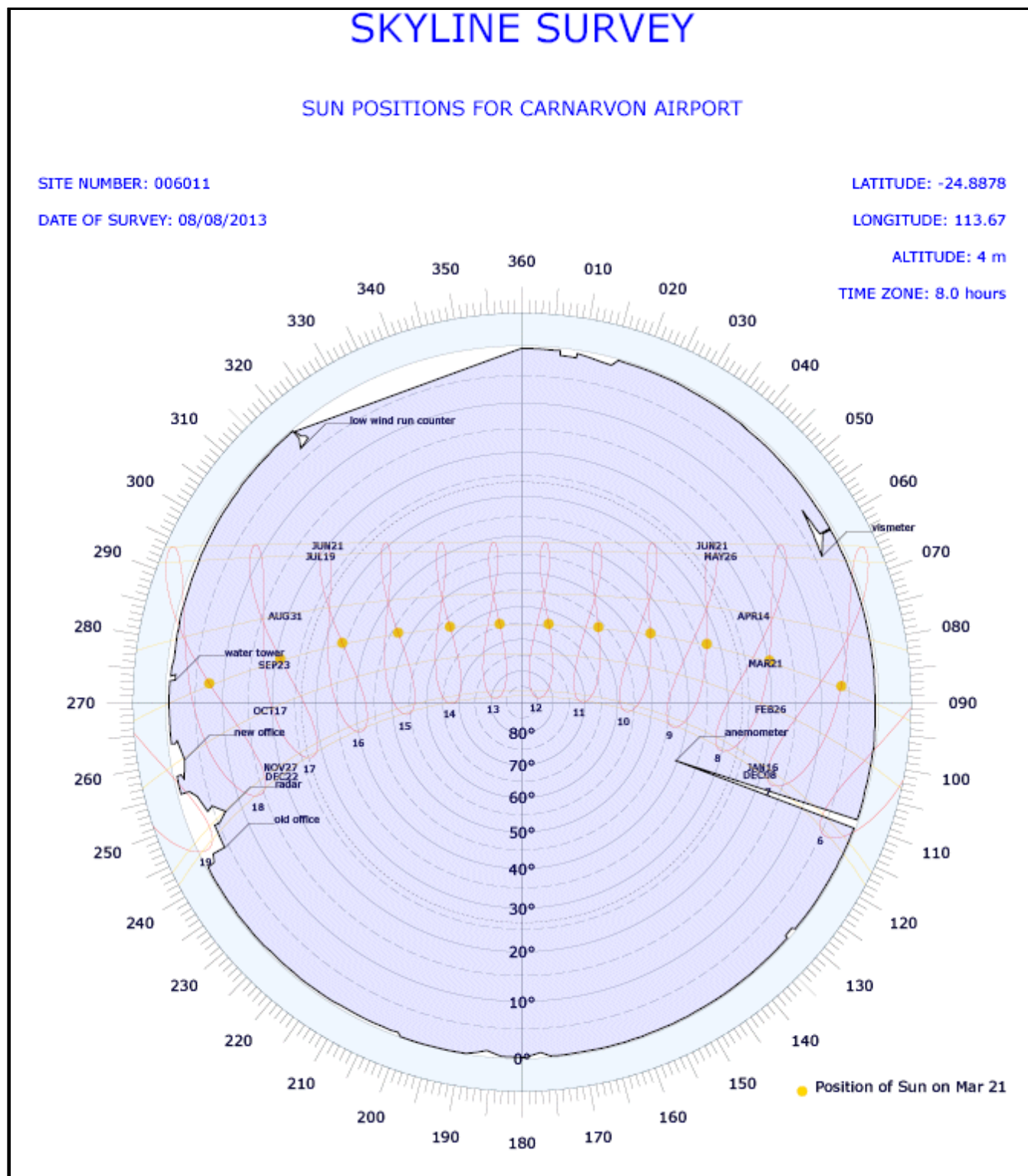
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Skyline Diagram

08/08/2013



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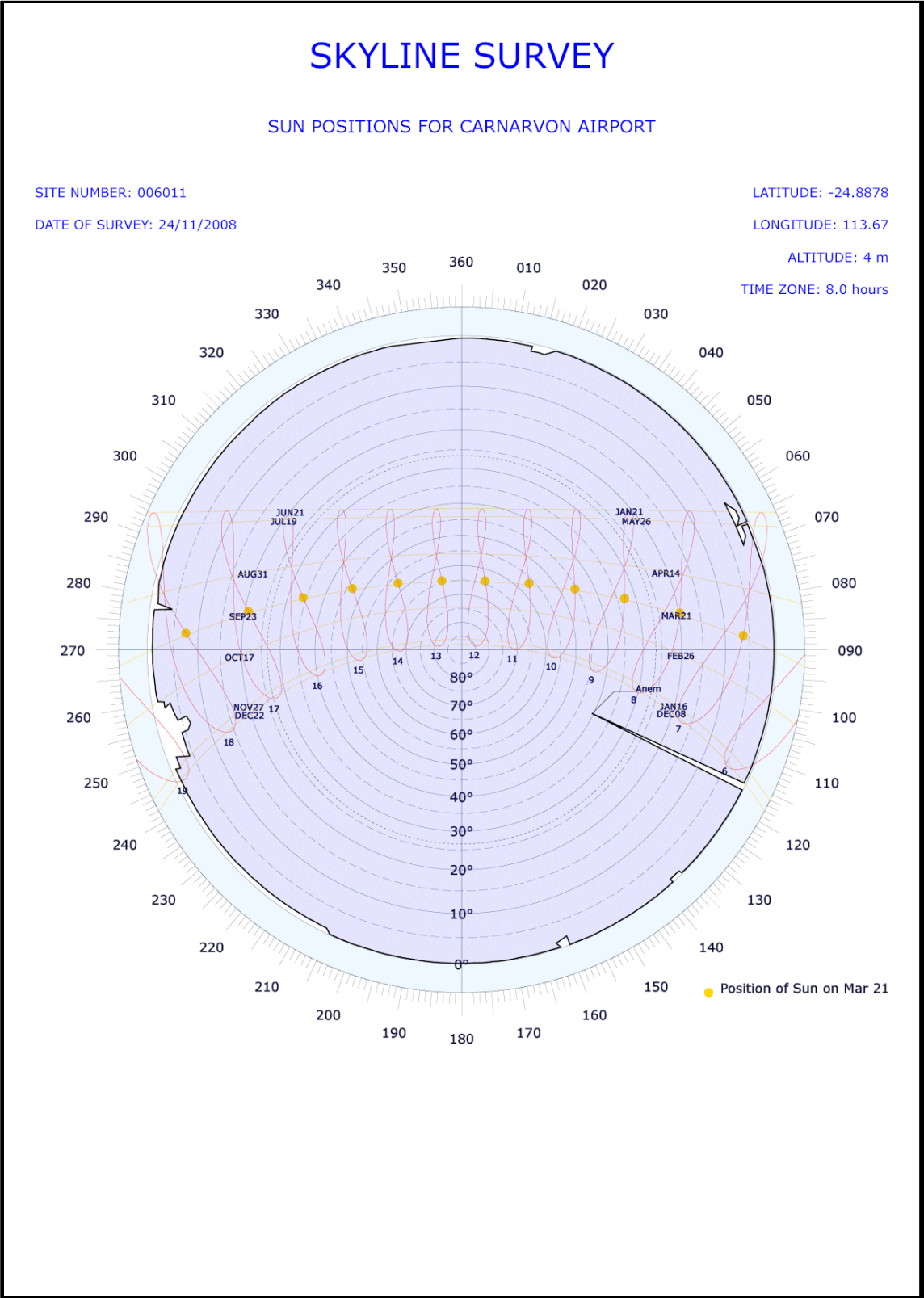
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Skyline Diagram
24/11/2008



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Station Observation Program Summary (Surface Observations) from 01/01/1945 to 02/05/1996

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 02/05/1996 to 09/08/2002

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	Y	Y

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

Station Observation Program Summary (Surface Observations) from 09/08/2002 to 16/02/2015

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

Station Observation Program Summary (Surface Observations) 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 22/11/2007

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

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Station metadata	Wind	00:00	Y	Y	Y	Y	Y	Y	nor accept
	Wind	06:00	Y	Y	Y	Y	Y	Y	
	Wind	12:00	Y	Y	Y	Y	Y	Y	
	Wind	18:00							



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Upper Air Routine 22/11/2007 to 19/10/2012

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

Upper Air Routine 19/10/2012 to 20/10/2012

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

Upper Air Routine 20/10/2012 (most recent)

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

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Station Equipment History

Equipment Install/Remove

Cloud Height

17/APR/2008 INSTALL Ceilometer (Type Vaisala CT25K S/N - C04201) Surface Observations
24/FEB/2020 REPLACE Ceilometer (Now Vaisala CL31 S/N - R3610709) Surface Observations
01/JAN/1945 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - NONE) Surface Observations
17/APR/2008 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - NONE) Surface Observations

Humidity

17/FEB/2018 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 11666001) Surface Observations
01/JAN/1945 INSTALL Hygrograph (Type Fielden S/N - Unknown) Surface Observations
01/JAN/1945 INSTALL Hygrograph (Type Hair Hygrograph S/N - Unknown) Surface Observations
22/OCT/1990 REMOVE Hygrograph (Type Fielden S/N - Unknown) Surface Observations
22/OCT/1990 REMOVE Hygrograph (Type Hair Hygrograph S/N - Unknown) Surface Observations

Pressure Trend

01/JAN/1966 INSTALL Barograph (Type Weekly S/N - CBM094) Surface Observations
03/MAR/2015 REMOVE Barograph (Type Weekly S/N - CBM094) Surface Observations

Lightning (No Electronic History)

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

21/JAN/1969 INSTALL Anemometer (Type Dines - Hi Speed S/N - TANK942,DIR189) Surface Observations
22/OCT/1990 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 71625) Surface Observations
22/OCT/1990 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 71634) Surface Observations
23/OCT/1990 INSTALL Mast Anemometer (Type Pivot, Hydraulic S/N - Unknown) Infrastructure
01/SEP/1964 INSTALL Wind Run Anemometer (Type Synchrotac S/N - CBM5477) Surface Observations
06/SEP/2012 REMOVE Anemometer (Type Dines - Hi Speed S/N - TANK942,DIR189) Surface Observations
16/OCT/2020 REMOVE Wind Run Anemometer (Type Munro S/N - 610) Surface Observations
17/SEP/2003 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 82668) Surface Observations
25/MAY/2016 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 95938) Surface Observations
28/MAR/2007 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - NONE) Surface Observations
25/MAY/2016 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 104105) Surface Observations
28/MAR/2007 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 78305) Surface Observations
17/SEP/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 82641) Surface Observations
30/MAY/2012 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - NONE) Surface Observations
30/MAY/2012 REPLACE Mast Anemometer (Now Pivot, SS 8m S/N - NONE) Infrastructure
15/FEB/2000 REPLACE Mast Anemometer (Now Pivot, Standard 8m S/N - NONE) Infrastructure
17/MAY/2019 REPLACE Wind Run Anemometer (Now Munro S/N - 610) Surface Observations
27/DEC/2012 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 557) Surface Observations

Wet Bulb Temperature

22/OCT/1990 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations
13/MAY/1998 INSTALL Temperature Probe - Wet Bulb (Type Unknown S/N - Unknown) Surface Observations
17/FEB/2018 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 10347) Surface Observations
22/SEP/1998 REMOVE Temperature Probe - Wet Bulb (Type Unknown S/N - Unknown) Surface Observations
29/MAR/2011 REPLACE Temperature Probe - Wet Bulb (Now Rosemount S/N - 10347) Surface Observations
01/JAN/1945 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 5362 & 4205) Surface Observations

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Extended Climatological Station Metadata
All History

Station:	CARNARVON AIRPORT		Location:	CARNARVON AIRPORT		State:	WA
Bureau No.:	006011	WMO No.:	94300	Aviation ID:	YCAR	Opened:	01 Jan 1945
Latitude:	-24.8878	Longitude:	113.6700	Elevation:	4 m	Barometer Elev:	4.5 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

26/APR/2018 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - NONE) Surface Observations
29/NOV/1999 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 16824) Surface Observations
23/MAY/2002 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 21769) Surface Observations
18/MAY/2011 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 21777) Surface Observations
26/OCT/2015 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - NONE) Surface Observations

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

01/JAN/1945 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - Unknown) Surface Observations
16/OCT/2020 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - 15429) Surface Observations
13/MAR/2002 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 15429) Surface Observations
27/FEB/2001 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 17154) Surface Observations
27/OCT/1995 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 3457) Surface Observations
26/MAY/2000 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 4394) Surface Observations

Soil Temperature 10cm

01/NOV/1986 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - CBM718) Surface Observations
17/OCT/2020 REMOVE Thermometer, Soil, 10cm (Type Amarol S/N - 0967156) Surface Observations
28/MAY/2014 REPLACE Thermometer, Soil, 10cm (Now Amarol S/N - 0967156) Surface Observations
29/NOV/1999 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - CBM758) Surface Observations

Soil Temperature 20cm

01/NOV/1986 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - M0914) Surface Observations
17/OCT/2020 REMOVE Thermometer, Soil, 20cm (Type Dobros S/N - 0967140) Surface Observations
04/SEP/2012 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 0967140) Surface Observations
09/AUG/2007 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - M0923) Surface Observations

Soil Temperature 50cm

01/NOV/1986 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - S6735) Surface Observations
17/OCT/2020 REMOVE Thermometer, Soil, 50cm (Type Amarol S/N - AMA0269676) Surface Observations
02/MAR/2005 REPLACE Thermometer, Soil, 50cm (Now Amarol S/N - AMA0269676) Surface Observations
15/NOV/2004 REPLACE Thermometer, Soil, 50cm (Now Amarol S/N - AMA0398359) Surface Observations

Snow Height (No Electronic History)

Soil Temperature 100cm

01/NOV/1986 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - CBM458) Surface Observations
17/OCT/2020 REMOVE Thermometer, Soil, 100cm (Type Amarol S/N - 0269672) Surface Observations
25/AUG/2010 REPLACE Thermometer, Soil, 100cm (Now Amarol S/N - 0269672) Surface Observations

Sunshine Hours (No Electronic History)

Wind Run

01/SEP/1964 INSTALL Wind Run Anemometer (Type Synchrotac S/N - CBM5477) Surface Observations
16/OCT/2020 REMOVE Wind Run Anemometer (Type Munro S/N - 610) Surface Observations
17/MAY/2019 REPLACE Wind Run Anemometer (Now Munro S/N - 610) Surface Observations
27/DEC/2012 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 557) Surface Observations

Minimum Temperature

01/JAN/1945 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - 5136) Surface Observations
03/MAR/2015 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - 13194) Surface Observations

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Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

20/MAY/2001 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 13187) Surface Observations
08/MAY/2014 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 13194) Surface Observations
15/OCT/2003 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 15678) Surface Observations
18/OCT/2005 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 23217) Surface Observations

Terrestrial Minimum Temperature

01/JAN/1966 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - 15678) Surface Observations
28/MAR/2013 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - 31888) Surface Observations
16/OCT/2020 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - 31276) Surface Observations
28/MAR/2013 REMOVE Thermometer, Terrestrial, Min (Type WIKA S/N - 31809) Surface Observations
20/SEP/2010 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 13194) Surface Observations
22/JUL/2013 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 13194) Surface Observations
15/OCT/2003 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 22156) Surface Observations
28/JAN/2015 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 23217) Surface Observations
03/MAR/2015 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 31276) Surface Observations
07/JAN/2014 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 31888) Surface Observations
17/FEB/2011 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 31809) Surface Observations

Visibility

17/APR/2008 INSTALL Visibility Meter (Type Vaisala FD12 S/N - C02402) Surface Observations

Soil Temperature 5cm (No Electronic History)

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Oxygen Content (No Electronic History)

RF Reflectivity

01/JUN/1961 INSTALL Radar (Type 3MKVII S/N - Unknown) Upper Air
13/MAY/1983 INSTALL Radar (Type WF100-5C S/N - NONE) Upper Air
13/MAY/1983 INSTALL Radar (Type WF100-5C S/N - NONE) WeatherWatch
17/APR/2015 INSTALL Radar Safety System (RSS) (Type RSS (2502C/8502S) S/N - 5652-04) WeatherWatch
01/APR/1983 REMOVE Radar (Type WF3 S/N - Unknown) Upper Air
18/MAY/2009 REPLACE Radar (Now DWSR 2502C S/N - Unknown) Upper Air
18/MAY/2009 REPLACE Radar (Now DWSR 2502C S/N - Unknown) WeatherWatch
01/NOV/1972 REPLACE Radar (Now WF3 S/N - Unknown) Upper Air
04/JUL/1988 UNSHARE Radar (Type DWSR 2502C S/N - Unknown) Upper Air
14/FEB/2013 UNSHARE Radar (Type DWSR 2502C S/N - Unknown) Upper Air

Total Column Ozone Amount (No Electronic History)

Pressure

01/JAN/1945 INSTALL Barometer (Type Kew pattern mercury S/N - 1870) Surface Observations
22/OCT/1990 REPLACE Barometer (Now Vaisala DPA25 S/N - Unknown) Surface Observations
02/OCT/1997 REPLACE Barometer (Now Vaisala PA11A S/N - 433544) Surface Observations
01/JUL/1995 REPLACE Barometer (Now Vaisala PA11A S/N - P073003) Surface Observations
06/FEB/2012 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - G2970047) Surface Observations

Evaporation

01/SEP/1964 INSTALL Evaporation Pan (Type Class A S/N - NONE) Surface Observations
16/OCT/2020 REMOVE Evaporation Pan (Type Class A S/N - NONE) Surface Observations

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						Barometer Elev:	4.5 m
							Metadata compiled: 26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

08/MAY/2019 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations

Rainfall

01/JAN/1956 INSTALL Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
01/DEC/1996 REMOVE Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
01/JAN/1945 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
28/JUL/1983 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Surface Observations
22/OCT/1990 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Surface Observations
16/OCT/2020 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
22/OCT/1990 REMOVE Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Surface Observations
01/DEC/1996 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-178) Rainfall Intensity
01/DEC/1996 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-178) Surface Observations
10/OCT/1996 REPLACE Raingauge (Now HS TB3A-0.2 S/N - Unknown) Rainfall Intensity
10/OCT/1996 REPLACE Raingauge (Now HS TB3A-0.2 S/N - Unknown) Surface Observations
05/SEP/2000 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 690) Rainfall Intensity
05/SEP/2000 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 690) Surface Observations
29/MAR/2011 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 83282) Rainfall Intensity
29/MAR/2011 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 83282) Surface Observations
07/OCT/2002 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - CBM-067) Rainfall Intensity
07/OCT/2002 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - CBM-067) Surface Observations
01/DEC/1996 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96-178) Rainfall Intensity
01/DEC/1996 SHARE Raingauge (Type HS TB3A-0.2 S/N - Unknown) Rainfall Intensity
01/DEC/1996 SHARE Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Rainfall Intensity
01/DEC/1996 SHARE Raingauge (Type Rimco TBRG (type unspecified) S/N - 690) Rainfall Intensity
01/DEC/1996 SHARE Raingauge (Type Rimco TBRG (type unspecified) S/N - CBM-067) Rainfall Intensity
17/MAY/2019 UNSHARE Raingauge (Type Rimco TBRG (type unspecified) S/N - 83282) 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

21/JAN/1969 INSTALL Anemometer (Type Dines - Hi Speed S/N - TANK942,DIR189) Surface Observations
22/OCT/1990 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 71625) Surface Observations
22/OCT/1990 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 71634) Surface Observations
23/OCT/1990 INSTALL Mast Anemometer (Type Pivot, Hydraulic S/N - Unknown) Infrastructure
01/SEP/1964 INSTALL Wind Run Anemometer (Type Synchrotac S/N - CBM5477) Surface Observations
06/SEP/2012 REMOVE Anemometer (Type Dines - Hi Speed S/N - TANK942,DIR189) Surface Observations
16/OCT/2020 REMOVE Wind Run Anemometer (Type Munro S/N - 610) Surface Observations
17/SEP/2003 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 82668) Surface Observations
25/MAY/2016 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 95938) Surface Observations
28/MAR/2007 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - NONE) Surface Observations
25/MAY/2016 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 104105) Surface Observations

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Extended Climatological Station Metadata

All History

Station:	CARNARVON AIRPORT		Location:	CARNARVON AIRPORT		State:	WA
Bureau No.:	006011	WMO No.:	94300	Aviation ID:	YCAR	Opened:	01 Jan 1945
Latitude:	-24.8878	Longitude:	113.6700	Elevation:	4 m	Current Status:	Still open
						Barometer Elev:	4.5 m
							Metadata compiled: 26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

28/MAR/2007 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 78305) Surface Observations
17/SEP/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 82641) Surface Observations
30/MAY/2012 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - NONE) Surface Observations
30/MAY/2012 REPLACE Mast Anemometer (Now Pivot, SS 8m S/N - NONE) Infrastructure
15/FEB/2000 REPLACE Mast Anemometer (Now Pivot, Standard 8m S/N - NONE) Infrastructure
17/MAY/2019 REPLACE Wind Run Anemometer (Now Munro S/N - 610) Surface Observations
27/DEC/2012 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 557) Surface Observations

Air Temperature

17/FEB/2018 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 11666001) Surface Observations
22/OCT/1990 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - NONE) Surface Observations
29/MAR/2011 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - 10508) Surface Observations
01/JAN/1945 INSTALL Thermograph (Type Fielden S/N - Unknown) Surface Observations
01/JAN/1945 INSTALL Thermograph (Type Weekly S/N - Unknown) Surface Observations
22/OCT/1990 REMOVE Thermograph (Type Fielden S/N - Unknown) Surface Observations
22/OCT/1990 REMOVE Thermograph (Type Weekly S/N - Unknown) Surface Observations
01/JAN/1945 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 5232) Surface Observations
26/APR/2018 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 19102) Surface Observations
20/MAY/2001 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 15956) Surface Observations
01/APR/2015 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 19102) Surface Observations
24/NOV/2008 REPLACE Thermometer, Mercury, Dry Bulb (Now WIKA S/N - 24176) 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
30/JUL/2008 - 06/SEP/2021	Cloud Height	1
17/FEB/2018 - 06/SEP/2021	Humidity	0
29/NOV/1999 - 13/OCT/2006	Pressure Trend	0
18/MAR/1996 - 06/SEP/2021	Wind Direction	6
18/MAR/1996 - 15/FEB/2018	Wet Bulb Temperature	1
29/NOV/1999 - 17/MAY/2019	Maximum Temperature	0
29/NOV/1999 - 17/MAY/2019	Soil Temperature 10cm	0
29/NOV/1999 - 17/MAY/2019	Soil Temperature 20cm	1
29/NOV/1999 - 17/MAY/2019	Soil Temperature 50cm	0
29/NOV/1999 - 17/MAY/2019	Soil Temperature 100cm	0
29/NOV/1999 - 17/MAY/2019	Wind Run	0
29/NOV/1999 - 28/MAY/2014	Minimum Temperature	0
29/NOV/1999 - 17/MAY/2019	Terrestrial Minimum Temperature	1
30/JUL/2008 - 06/SEP/2021	Visibility	6
17/MAR/2003 - 04/AUG/2020	RF Reflectivity	1

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Station Equipment History (continued)

Available Date Range	Element	Fail Field Performance Check
18/MAR/1996 - 04/AUG/2020	Pressure	0
26/MAY/2000 - 23/JUN/2017	Evaporation	0
18/MAR/1996 - 06/SEP/2021	Rainfall	8
18/MAR/1996 - 06/SEP/2021	Wind Speed	6
18/MAR/1996 - 06/SEP/2021	Air Temperature	0

Station Detail Changes

05/MAR/2015 CLASSIFICATION AWS Funding - Aviation Funded Assets (AVAF)
01/FEB/2021 CLASSIFICATION AWS Priority 3 - Standard (SLP3-AWS)
01/JUL/2011 CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT)
26/JUN/2002 CLASSIFICATION CLIMAT Stations (CLC)
09/MAY/2006 CLASSIFICATION Category C (TAF C) ENDED 05-03-2015
05/MAR/2015 CLASSIFICATION Category D (TAF D)
10/JAN/2011 CLASSIFICATION Critical (ASOSCRIT)
22/OCT/1990 CLASSIFICATION Fielden (FFD)
01/MAY/1997 CLASSIFICATION GCOS Surface Network (GSN)
01/JUL/2018 CLASSIFICATION HQ EVAPORATION (HQEVAP)
01/JUL/2018 CLASSIFICATION HQ RAINFALL (HQRAIN)
01/JUL/1998 CLASSIFICATION Information and Observations (MIO) ENDED 31-01-2015
27/SEP/2021 CLASSIFICATION Mastered in EAMS (EAMS)
21/MAR/2016 CLASSIFICATION NOT Processed by ASOS (NPBA) ENDED 20-05-2020
01/JUL/2017 CLASSIFICATION Observing Operations Hub - Perth (OOH-P)
21/MAY/2020 CLASSIFICATION Processed by ASOS (PBA)
01/SEP/1992 CLASSIFICATION Reference Climate Stations (RCS) ENDED 30-06-2011
14/FEB/1997 CLASSIFICATION Regional Basic Synoptic Network (RBSN)
10/JUN/2014 CLASSIFICATION Standard Aviation or Defence (AVSTD) ENDED 16-10-2020
01/JUL/1998 CLASSIFICATION Upper Wind only (UW)
26/AUG/2009 OBJECT Document/006011090826tnt
16/AUG/2010 OBJECT Document/006011100610tnt
16/OCT/2020 OBJECT Document/006011WaterInstruct
20/JUN/2019 OBJECT Document/ASOS CONFIGURATION
08/MAY/2020 OBJECT Document/ASOS CONFIGURATION
21/OCT/2013 OBJECT Document/BAROMETER COEFFICIENTS
12/MAY/2016 OBJECT Document/CEILOMETER STATUS
22/AUG/2018 OBJECT Document/CEILOMETER STATUS
25/FEB/2020 OBJECT Document/CEILOMETER STATUS
19/AUG/2013 OBJECT Document/CEILOMETER STATUS
01/MAR/2016 OBJECT Document/CEILOMETER STATUS
26/FEB/2014 OBJECT Document/CEILOMETER STATUS
04/AUG/2020 OBJECT Document/CEILOMETER STATUS
07/SEP/2011 OBJECT Document/CEILOMETER STATUS
14/FEB/2013 OBJECT Document/CEILOMETER STATUS
02/AUG/2016 OBJECT Document/CEILOMETER STATUS

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Station Equipment History (continued)

Station Detail Changes(Continued)

27/FEB/2018 OBJECT Document/CEILOMETER STATUS
23/JUN/2017 OBJECT Document/CEILOMETER STATUS
12/FEB/2015 OBJECT Document/CEILOMETER STATUS
05/OCT/2005 OBJECT Document/RAPIC TX CAL DATA
04/AUG/2016 OBJECT Document/RSS VALIDATION RECORD
24/NOV/2008 OBJECT Document/SKYLINE DATA
23/JUN/2017 OBJECT Document/SKYLINE DATA
26/AUG/2009 OBJECT Document/SKYLINE DATA
24/NOV/2008 OBJECT Document/Tagandtest
22/AUG/2018 OBJECT Document/VISIBILITY METER STATUS
01/MAR/2016 OBJECT Document/VISIBILITY METER STATUS
26/FEB/2014 OBJECT Document/VISIBILITY METER STATUS
07/SEP/2011 OBJECT Document/VISIBILITY METER STATUS
14/FEB/2013 OBJECT Document/VISIBILITY METER STATUS
02/AUG/2016 OBJECT Document/VISIBILITY METER STATUS
27/FEB/2018 OBJECT Document/VISIBILITY METER STATUS
04/AUG/2020 OBJECT Document/VISIBILITY METER STATUS
12/FEB/2015 OBJECT Document/VISIBILITY METER STATUS
26/FEB/2019 OBJECT Document/see-saw mast inspection
01/JAN/1945 STATION - (nondb seeding) Opened
01/JAN/1945 STATION - (nondb seeding) aero_ht Changed to 4
01/JAN/1945 STATION - (nondb seeding) bar_ht Changed to 8
01/JAN/1945 STATION - (nondb seeding) bar_ht_deriv Changed to SURVEY
01/JAN/1945 STATION - (nondb seeding) latitude Changed to -24.8819
01/JAN/1945 STATION - (nondb seeding) longitude Changed to 113.6708
01/JAN/1945 STATION - (nondb seeding) name Changed to CARNARVON AIRPORT
01/JAN/1945 STATION - (nondb seeding) stn_ht Changed to 4
01/JAN/1945 STATION - (nondb seeding) stn_ht_deriv Changed to SURVEY
01/JAN/1945 STATION - (nondb seeding) wmo_num Changed to 94300
01/JAN/1945 STATION aviation_id Changed to YCAR
24/OCT/2013 STATION bar_ht Changed to 4.5
24/OCT/2013 STATION bar_ht_deriv Changed to SURVEY
23/MAY/2002 STATION latitude Changed to -24.8878WGS84 System
23/MAY/2002 STATION latlon_deriv Changed to GPS
23/MAY/2002 STATION latlon_error Changed to
23/MAY/2002 STATION longitude Changed to 113.67WGS84 System
29/SEP/1994 STATION lu_0_100m Changed to Airport
29/SEP/1994 STATION lu_100m_1km Changed to Airport
29/SEP/1994 STATION lu_1km_10km Changed to Town 1000 to 10,000
29/SEP/1994 STATION soil_type Changed to sand
29/SEP/1994 STATION surface_type Changed to partly covered by grass

System Changes

01/JAN/1945 SYSTEM Infrastructure Commenced

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Extended Climatological Station Metadata
All History

Station:	CARNARVON AIRPORT		Location:	CARNARVON AIRPORT		State:	WA
Bureau No.:	006011	WMO No.:	94300	Aviation ID:	YCAR	Opened:	01 Jan 1945
Latitude:	-24.8878	Longitude:	113.6700	Elevation:	4 m	Barometer Elev:	4.5 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

System Changes(Continued)

17/MAY/2019 SYSTEM Rainfall Intensity Ceased
01/JAN/1956 SYSTEM Rainfall Intensity Commenced
09/MAR/2015 SYSTEM Reference Standards Ceased
01/JAN/2011 SYSTEM Reference Standards Commenced
01/JAN/1945 SYSTEM Surface Observations Commenced
04/JUL/1988 SYSTEM Upper Air Ceased
01/JAN/1950 SYSTEM Upper Air Commenced
01/JAN/1961 SYSTEM Upper Air Commenced
01/JAN/1983 SYSTEM WeatherWatch Commenced

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Notes on these metadata

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

Reliability of the metadata

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

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

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

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

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

Station Number

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

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

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Notes on these metadata

Network Classification

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

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

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Notes on these metadata

Network Classification Continued....

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

Station Purpose

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

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

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

Station Observation Program Summary

Surface Observations

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

Set a)

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

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Notes on these metadata

Surface observations continued....

Set b)

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

Current Station Equipment Summary

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

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

Station Equipment History

Equipment Install/Remove

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

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

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

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

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

Unshare - The instrument is no longer shared between systems

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Calibration

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

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

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

Station Detail Changes

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

- STATION

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

Station position

- Latitude and longitude

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

- Height

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

Heights which may appear in these metadata are:

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

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Notes on these metadata

- Land Use

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

Defined Land use Types.

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

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

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

Defined Soil Type (At Enclosure).

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

Surface Type (At Enclosure).

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

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