



Basic Climatological Station Metadata
Current status

Metadata compiled: 26 JUL 2025

Station: EUCLA

Bureau of Meteorology station number: 011003

Bureau of Meteorology district name: Eucla

State: WA

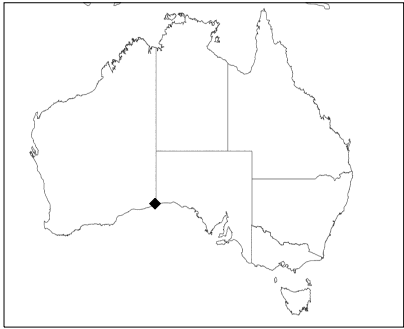
World Meteorological Organization number: 94647

Identification: ECLT

Network Classification: CLIMAT Stations, Regional Basic Synoptic Network

Station purpose: Synoptic, Upper Air, Aeronautical

Automatic Weather Station: Almos



Current Station Location				
Latitude	Decimal	-31.6797	Hour Min Sec	31°40'47"S
Longitude	Decimal	128.8958	Hour Min Sec	128°53'45"E
Station Height	93.1 m	Barometer Height	93.6 m	
Method of station geographic positioning			GPS	

Year opened: 1876

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.

Prepared by the Bureau of Meteorology.

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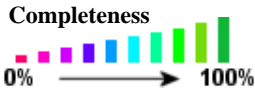
Basic Climatological Station Metadata
Current status

Station: EUCLA		Location: EUCLA		State: WA	
Bureau No.: 011003	WMO No.: 94647	Aviation ID: ECLT	Opened: 01 Jan 1876	Current Status: Still open	
Latitude: -31.6797	Longitude: 128.8958	Elevation: 93.1 m	Barometer Elev: 93.6 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	MAR 1995	MAY 2025	84.9	1449	7
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	MAR 1995	JUN 2011	87.2	759	0
GROUND MINIMUM TEMPERATURE	JUN 1965	JUN 2021	51.2	1520	278
MAXIMUM AIR TEMPERATURE	JAN 1910	JUN 2025	90.3	1348	89
MAXIMUM WIND GUST SPEED	MAR 1995	JUN 2025	96.8	259	3
WIND RUN ABOVE 10 FEET	MAR 1995	JUN 2025	91.6	711	7
WIND RUN BELOW 10 FEET	MAR 1995	MAY 2025	86.7	1339	4
RAINFALL	JAN 1876	JUL 2025	74	N/A	N/A

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Basic Climatological Station Metadata
Current status

Station:	EUCLA	Location:	EUCLA	State:	WA
Bureau No.:	011003	WMO No.:	94647	Aviation ID:	ECLT
Latitude:	-31.6797	Longitude:	128.8958	Elevation:	93.1 m
		Barometer Elev:	93.6 m	Opened:	01 Jan 1876
				Current Status:	Still open
				Metadata compiled:	26 JUL 2025

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 1957	JUN 2025	90.8	8.2	749	41
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	2 0 0 0
DEW POINT	JAN 1957	JUN 2025	85.6	8.5	814	82
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	2 0 0 0
MEAN SEA LEVEL PRESSURE	JAN 1957	JUN 2025	90.0	8.3	739	48
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	2 0 0 0
PRECIPITATION SINCE LAST OBS	JAN 1960	AUG 1999	28.5	2.8	2215	254
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	2 0 0 0
SOIL TEMPERATURE - 10cm	MAY 1988	JUL 2021	50.5	3.0	1077	155
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	2 0 0 0
TOTAL CLOUD AMOUNT	JAN 1957	JUL 2021	85.2	3.5	1525	41
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	2 0 0 0
WIND SPEED	JAN 1957	JUN 2025	90.4	8.2	769	42
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	2 0 0 0
UPPER AIR TEMPERATURE	MAR 1995	OCT 2012	78.8	1.7	363	1
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	2 0 0 0
UPPER AIR WIND SPEED	MAR 1995	OCT 2012	76.6	2.5	285	0
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	2 0 0 0

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RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	MAR 1995	MAY 2017	78.4	657	36

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	JUN 2003	JUL 2025	99.5	1433.1	N/A	0

HALF-HOURLY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	MAR 1995	JUL 2025	103.2	49.5	N/A	0

UPPER-AIR EDT DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
Wind only flights	May 2009	Apr 2012	N/A	1.0	141	31
Wind, temperature and pressure flights	Mar 1995	Oct 2012	N/A	1.4	318	0

Holdings calculated up to 01 Jul 2025

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

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

Unlisted element

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

Listed element to use

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

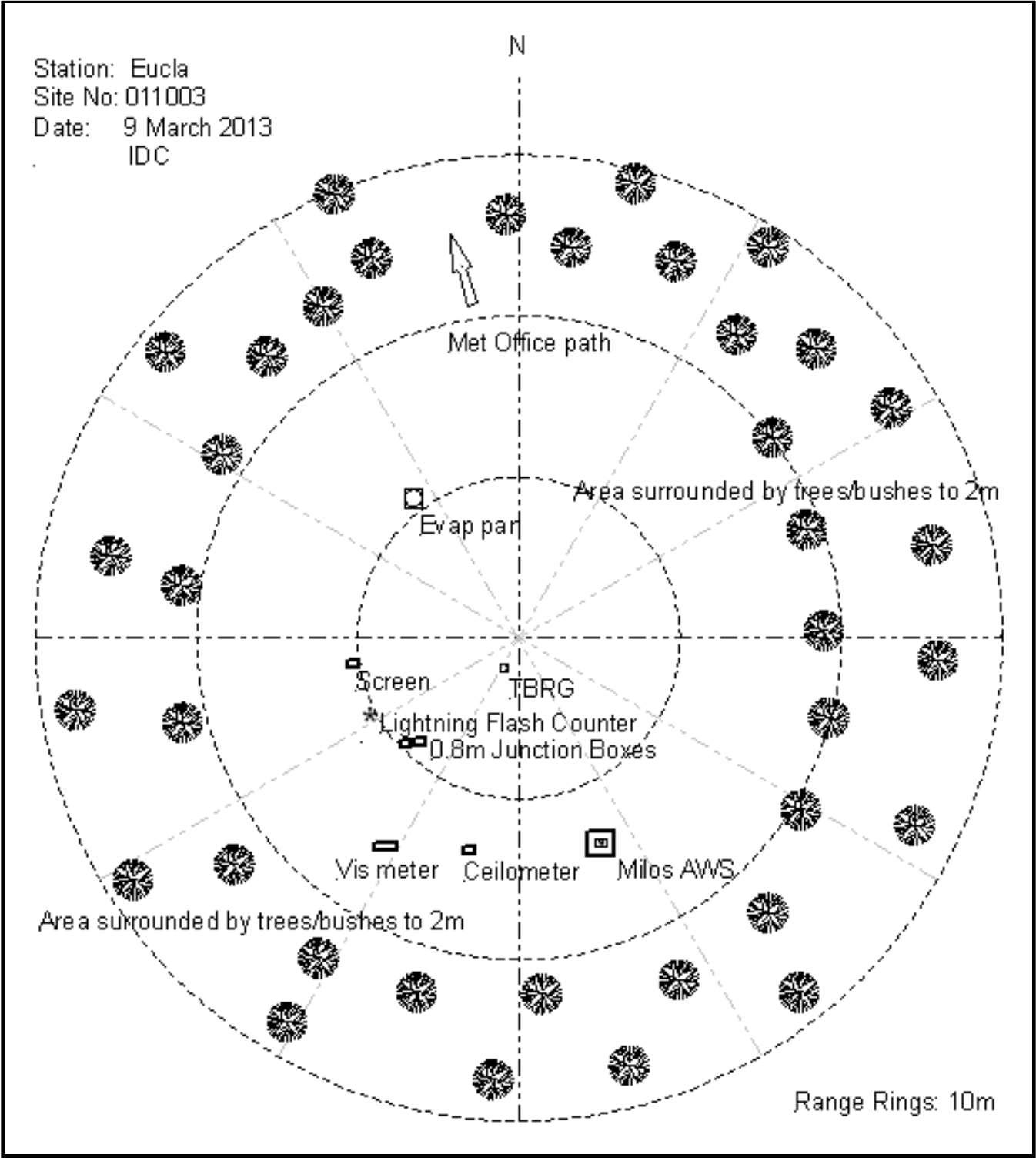
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Extended Climatological Station Metadata
All History

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Instrument Location and Surrounding Features
09/03/2013(most recent)



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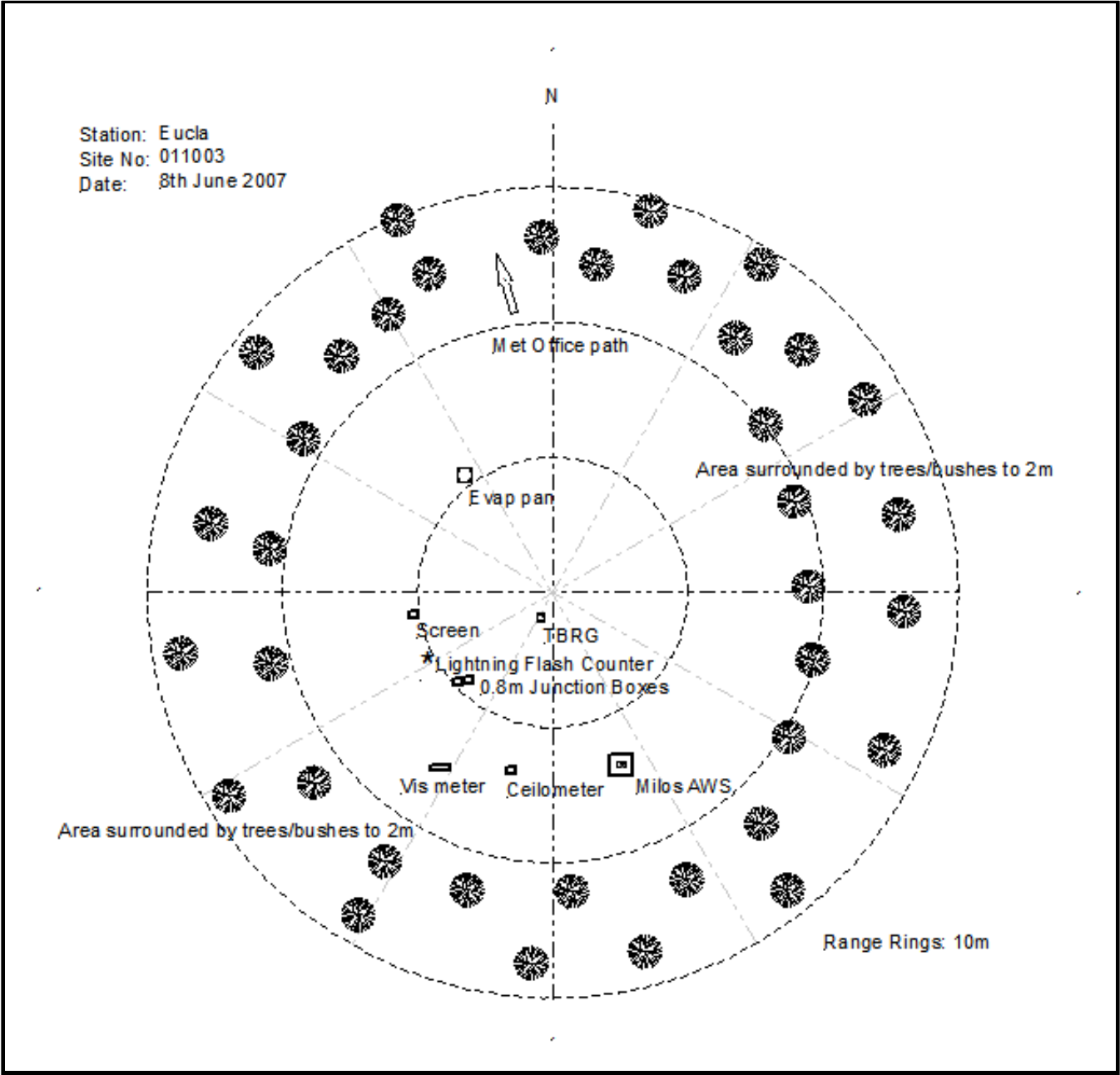
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Latitude:	-31.6797	Longitude:	128.8958	Elevation:	93.1 m
				Barometer Elev:	93.6 m
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Instrument Location and Surrounding Features
08/06/2007



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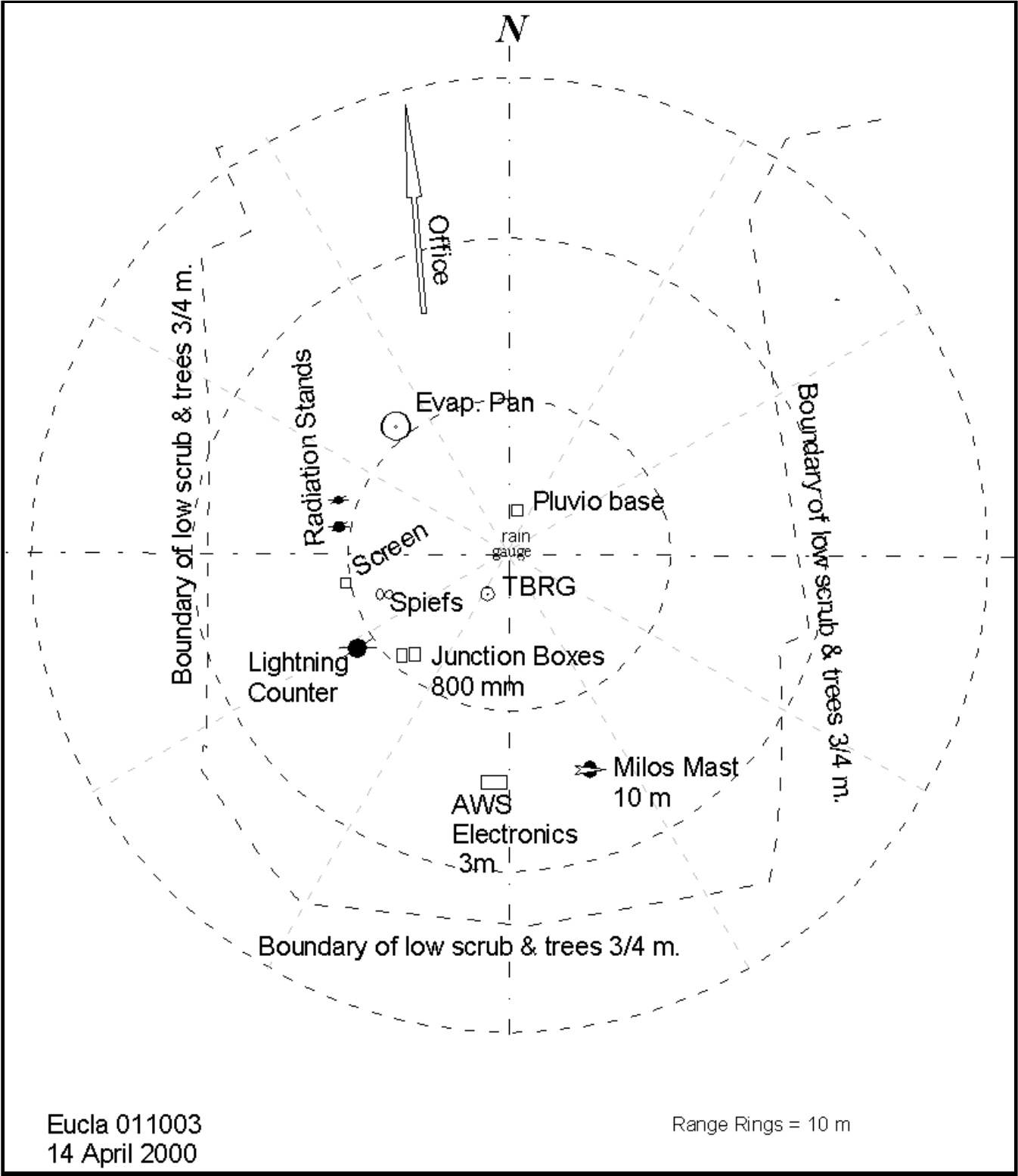
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All History

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Latitude:	-31.6797	Longitude:	128.8958	Opened:	01 Jan 1876
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Instrument Location and Surrounding Features
03/05/2000



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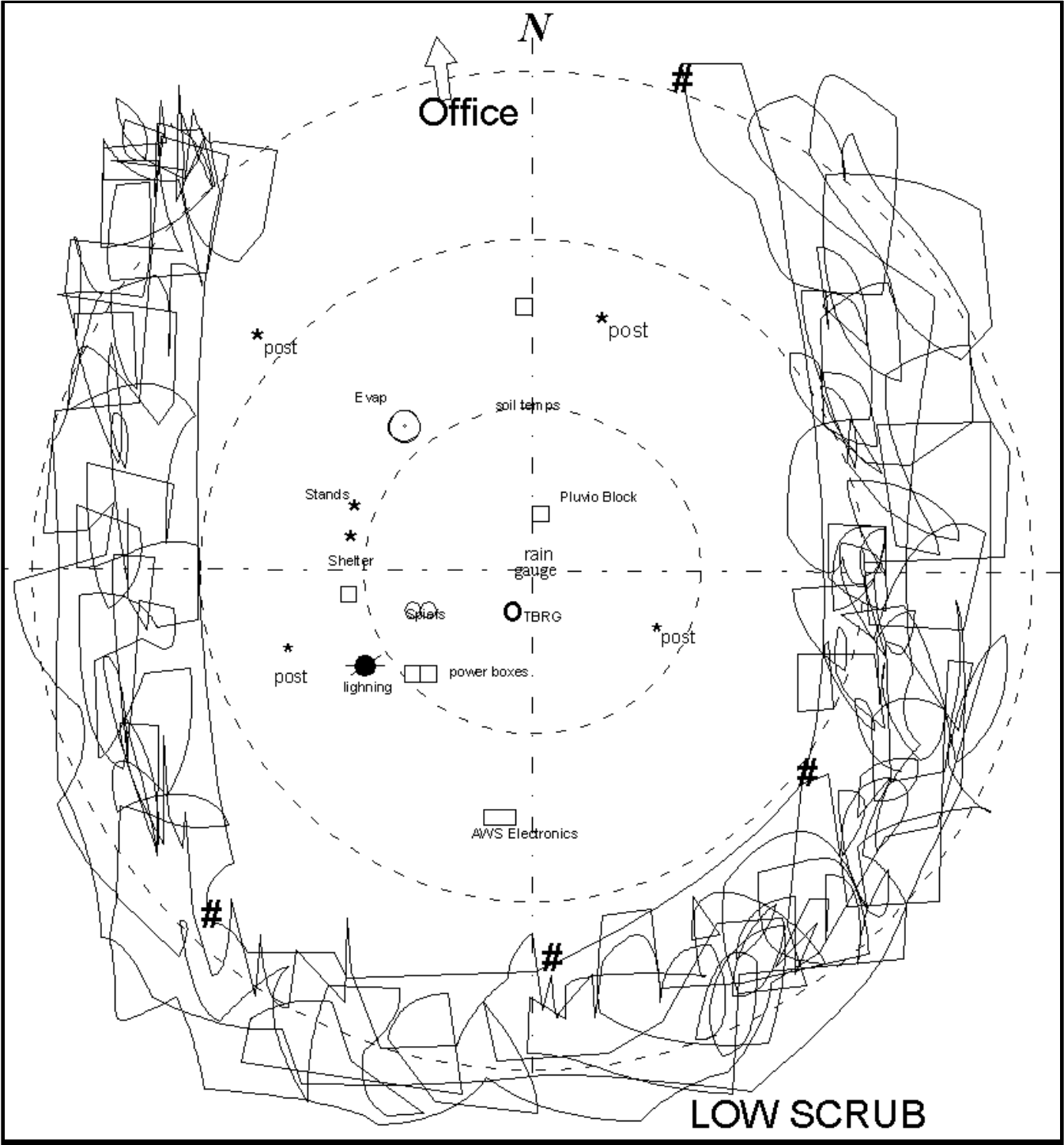
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All History

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Instrument Location and Surrounding Features
25/03/1995



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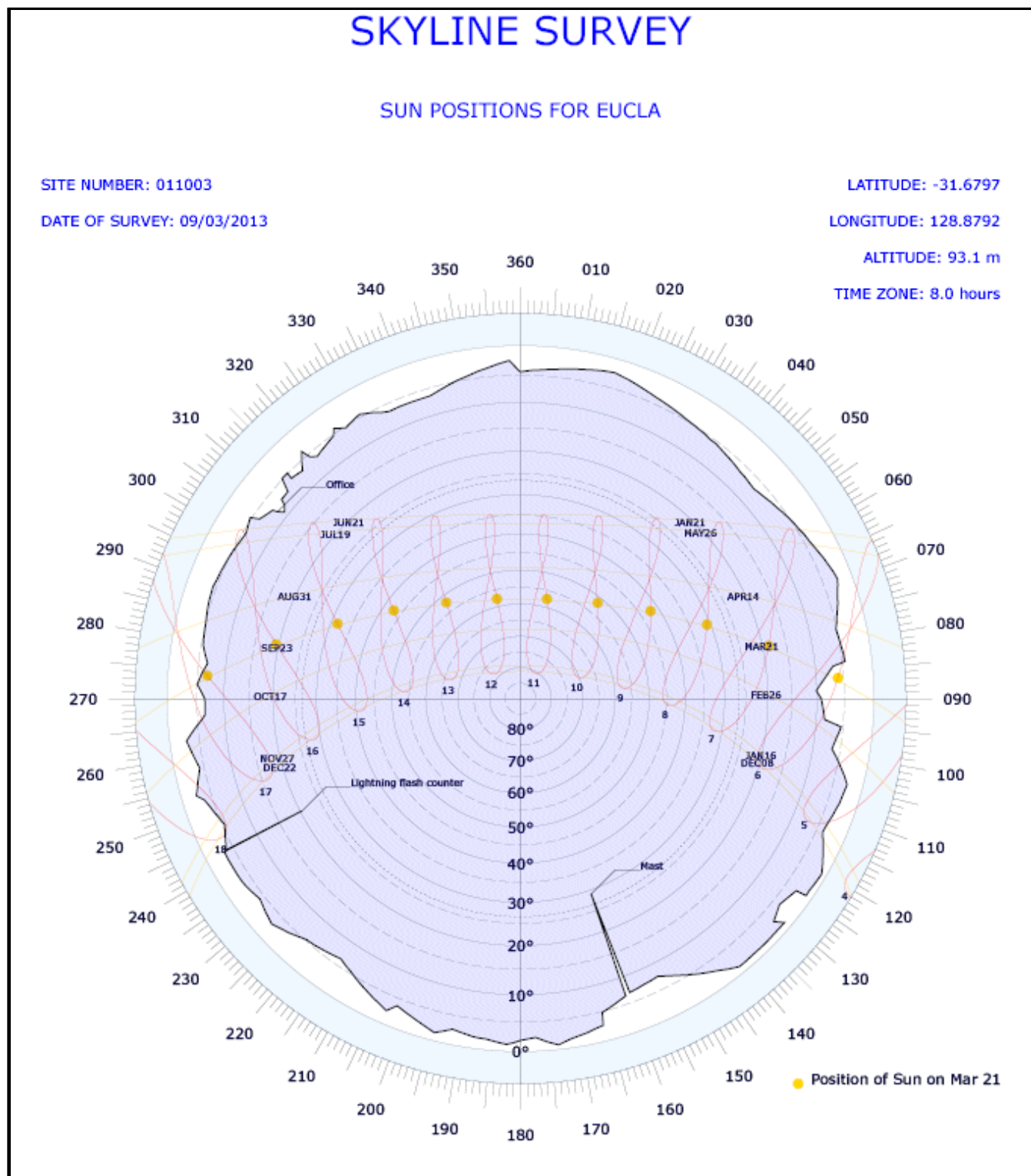
Extended Climatological Station Metadata

All History

Station:	EUCLA	Location:	EUCLA	State:	WA
Bureau No.:	011003	WMO No.:	94647	Aviation ID:	ECLT
Latitude:	-31.6797	Longitude:	128.8958	Elevation:	93.1 m
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Skyline Diagram

09/03/2013(most recent)



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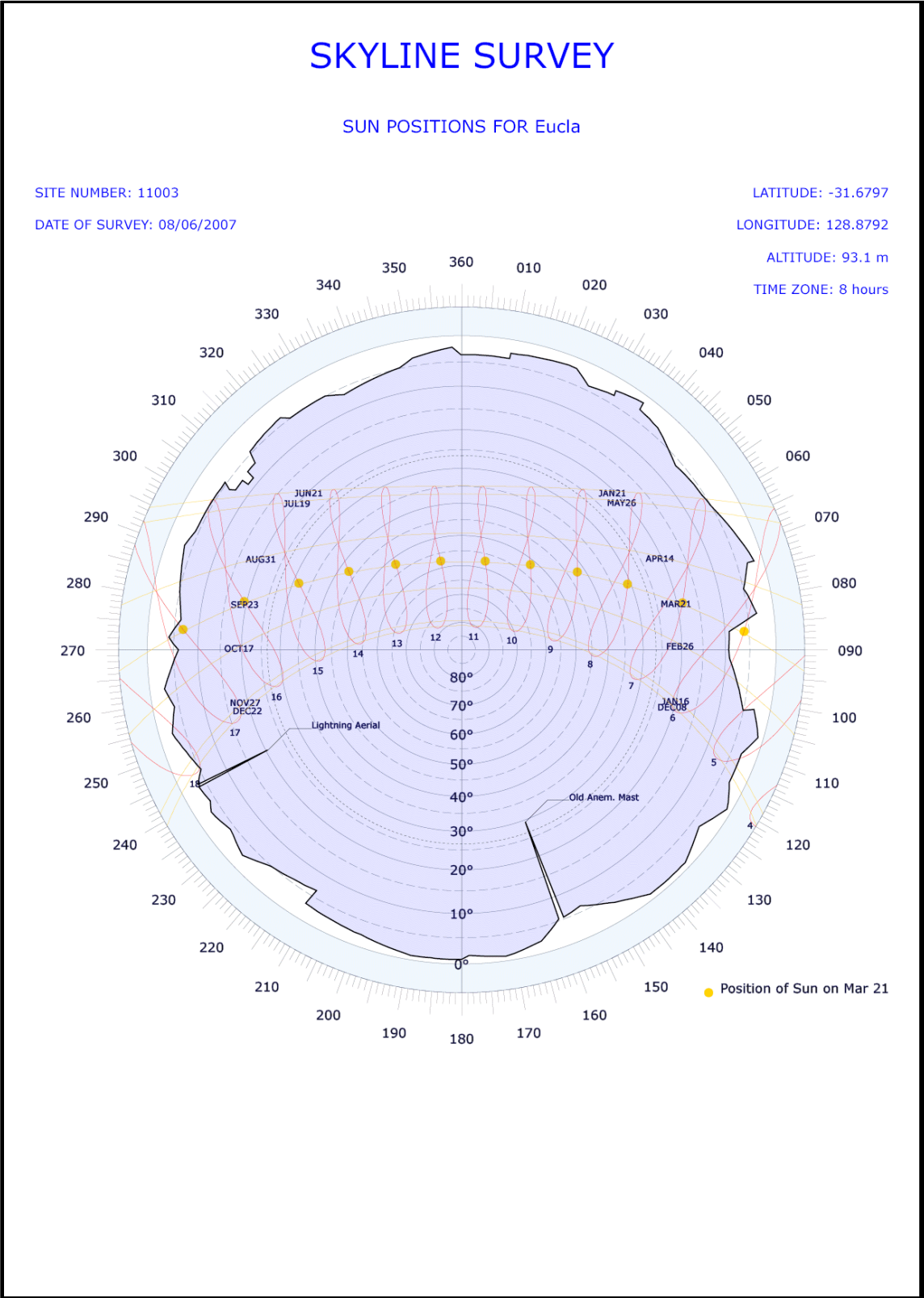
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Extended Climatological Station Metadata
All History

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Bureau No.:	011003	WMO No.:	94647	Aviation ID:	ECLT
Latitude:	-31.6797	Longitude:	128.8958	Opened:	01 Jan 1876
		Elevation:	93.1 m	Barometer Elev:	93.6 m
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Skyline Diagram
08/06/2007



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All History

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Latitude:	-31.6797	Longitude:	128.8958	Elevation:	93.1 m	Barometer Elev: 93.6 m	Metadata compiled: 26 JUL 2025

Station Observation Program Summary (Surface Observations) from 01/01/1876 to 01/11/1926

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	-	-

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

Station Observation Program Summary (Surface Observations) from 01/11/1926 to 23/09/1948

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	-	-

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	-	-
Surface Observation	REPORTED	-	-	-	Y	-	Y	-	-
Surface Observation	SEASONAL	-	-	-	-	-	-	-	-

Station Observation Program Summary (Surface Observations) from 23/09/1948 to 11/04/1950

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	-	-

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	-	-
Surface Observation	REPORTED	Y	Y	Y	Y	-	Y	-	-
Surface Observation	SEASONAL	-	-	-	-	-	-	-	-

Station Observation Program Summary (Surface Observations) from 11/04/1950 to 01/08/1967

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	-	-

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	-	-
Surface Observation	REPORTED	Y	-	-	Y	-	Y	-	-
Surface Observation	SEASONAL	-	-	-	-	-	-	-	-

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Station Observation Program Summary (Surface Observations) from 01/08/1967 to 25/03/1995

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	-	-

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	-	-
Surface Observation	REPORTED	-	-	-	Y	-	Y	-	-
Surface Observation	SEASONAL	-	-	-	-	-	-	-	-

Station Observation Program Summary (Surface Observations) from 25/03/1995 to 18/04/1999

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 18/04/1999 to 13/06/2003

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 13/06/2003 to 09/10/2012

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 Observation Program Summary (Surface Observations) from 09/10/2012 to 01/08/2021

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 25/03/1995 to 15/07/1999

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

Upper Air Routine 15/07/1999 to 05/01/2005

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

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Current Status:							Still open
Metadata compiled:							26 JUL 2025

Upper Air Routine 05/01/2005 to 01/09/2005

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

Upper Air Routine 01/09/2005 to 08/10/2012

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

Upper Air Routine 08/10/2012 to 03/10/2014

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

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Extended Climatological Station Metadata
All History

Station:	EUCLA	Location:	EUCLA	State:	WA
Bureau No.:	011003	WMO No.:	94647	Aviation ID:	ECLT
Latitude:	-31.6797	Longitude:	128.8958	Opened:	01 Jan 1876
		Elevation:	93.1 m	Barometer Elev:	93.6 m
				Current Status:	Still open
				Metadata compiled:	26 JUL 2025

Station Equipment History

Equipment Install/Remove

Cloud Height

08/MAY/2001 INSTALL Ceilometer (Type Vaisala CT25K S/N - W09404) Surface Observations
06/NOV/2013 REMOVE Ceilometer (Type Vaisala CT25K S/N - V01402) Surface Observations
09/FEB/2011 REPLACE Ceilometer (Now Vaisala CT25K S/N - V01402) Surface Observations
25/MAR/1995 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - Unknown) Surface Observations

Humidity

23/MAR/2013 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 60150674) Surface Observations

Pressure Trend

25/MAR/1995 INSTALL Barograph (Type Weekly S/N - CBM057) Surface Observations
09/OCT/2012 REMOVE Barograph (Type Weekly S/N - CBM057) Surface Observations

Lightning

25/MAR/1995 INSTALL Lightning Flash Counter (Type CIGRE - Vertical Aerial S/N - Unknown) Surface Observations

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

25/OCT/1985 INSTALL Anemometer (Type Dwyer hand held S/N - Unknown) Surface Observations
07/JUL/2001 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - NONE) Surface Observations
25/MAR/1995 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 69055) Surface Observations
07/JUL/2001 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 69055) Surface Observations
16/JUL/1999 INSTALL Anemometer (Type Vaisala Cups WAA151 S/N - T39640) Surface Observations
16/JUL/1999 INSTALL Anemometer (Type Vaisala Vane WAV151 S/N - T40302) Surface Observations
01/JAN/1957 INSTALL Anemometer (Type Wind Vane S/N - Unknown) Surface Observations
25/MAR/1995 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
15/JUL/1999 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
25/MAR/1995 INSTALL Wind Run Anemometer (Type Munro S/N - CBM524) Surface Observations
03/DEC/1992 REMOVE Anemometer (Type Dwyer hand held S/N - Unknown) Surface Observations
06/JUL/2001 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - 69055) Surface Observations
06/JUL/2001 REMOVE Anemometer (Type Vaisala Cups WAA151 S/N - T39640) Surface Observations
06/JUL/2001 REMOVE Anemometer (Type Vaisala Vane WAV151 S/N - T40302) Surface Observations
25/MAR/1995 REMOVE Anemometer (Type Wind Vane S/N - Unknown) Surface Observations
18/MAY/2013 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 0402) Surface Observations
25/FEB/2003 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 74088) Surface Observations
06/NOV/2013 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 89477) Surface Observations
30/MAR/2019 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - Unknown) Surface Observations
25/FEB/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - NONE) Surface Observations
25/FEB/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - NONE) Upper Air
05/FEB/2007 REPLACE Wind Run Anemometer (Now Munro S/N - 8800) Surface Observations
14/APR/2000 REPLACE Wind Run Anemometer (Now Munro S/N - CBM376) Surface Observations
04/FEB/2012 REPLACE Wind Run Anemometer (Now Munro S/N - CBM387) Surface Observations
25/FEB/2003 SHARE Anemometer (Type Synchrotac Vane - Type 706 S/N - 69055) Upper Air
15/OCT/2012 UNSHARE Anemometer (Type Synchrotac Vane - Type 706 S/N - NONE) Upper Air

Wet Bulb Temperature

25/MAR/1995 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 0029) Surface Observations

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Extended Climatological Station Metadata
All History

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Bureau No.:	011003	WMO No.:	94647	Aviation ID:	ECLT
Latitude:	-31.6797	Longitude:	128.8958	Opened:	01 Jan 1876
		Elevation:	93.1 m	Barometer Elev:	93.6 m
				Current Status:	Still open
				Metadata compiled:	26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

16/JUL/1999 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 0471) Surface Observations
16/JUL/1999 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 0471) Upper Air
06/JUL/2001 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 0029) Surface Observations
23/MAR/2013 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 0471) Surface Observations
15/OCT/2012 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 0471) Upper Air
08/FEB/2005 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 23052) Surface Observations
01/JAN/1926 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - Unknown) Surface Observations
21/AUG/2005 INSTALL Thermometer, Mercury, Wet Bulb (Type WIKA S/N - 23064) Surface Observations
09/OCT/2012 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 14608) Surface Observations
24/JUL/2005 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 23052) Surface Observations
09/OCT/2012 REMOVE Thermometer, Mercury, Wet Bulb (Type WIKA S/N - 23064) Surface Observations
21/JAN/2002 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 14608) Surface Observations
25/MAR/1995 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M6192) Surface Observations
14/APR/2000 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M6226) Surface Observations

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

01/JAN/1926 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - Unknown) Surface Observations
23/OCT/2012 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - M0399) Surface Observations
25/MAR/1995 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M0399) Surface Observations

Soil Temperature 10cm

25/MAR/1995 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - 726) Surface Observations
18/OCT/2006 REPLACE Thermometer, Soil, 10cm (Now Amarol S/N - 0011812) Surface Observations
14/APR/2000 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - CBM726) Surface Observations

Soil Temperature 20cm

25/MAR/1995 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - Unknown) Surface Observations
18/OCT/2006 REPLACE Thermometer, Soil, 20cm (Now Amarol S/N - 0011830) Surface Observations
14/APR/2000 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - M6420) Surface Observations

Soil Temperature 50cm

25/MAR/1995 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - CBM413) Surface Observations

Snow Height (No Electronic History)

Soil Temperature 100cm

25/MAR/1995 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - CBM362) Surface Observations
13/OCT/2006 REPLACE Thermometer, Soil, 100cm (Now Dobros S/N - M6606) Surface Observations

Sunshine Hours (No Electronic History)

Wind Run

25/MAR/1995 INSTALL Wind Run Anemometer (Type Munro S/N - CBM524) Surface Observations
05/FEB/2007 REPLACE Wind Run Anemometer (Now Munro S/N - 8800) Surface Observations
14/APR/2000 REPLACE Wind Run Anemometer (Now Munro S/N - CBM376) Surface Observations
04/FEB/2012 REPLACE Wind Run Anemometer (Now Munro S/N - CBM387) Surface Observations

Minimum Temperature

01/JAN/1926 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - Unknown) Surface Observations
09/OCT/2012 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - S6701) Surface Observations

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Extended Climatological Station Metadata

All History

Station:	EUCLA	Location:	EUCLA	State:	WA
Bureau No.:	011003	WMO No.:	94647	Aviation ID:	ECLT
Latitude:	-31.6797	Longitude:	128.8958	Opened:	01 Jan 1876
		Elevation:	93.1 m	Current Status:	Still open
		Barometer Elev:	93.6 m	Metadata compiled:	26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

25/MAR/1995 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - S6701) Surface Observations

Terrestrial Minimum Temperature

13/FEB/2014 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - 23183) Surface Observations

01/JAN/1972 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - M2569) Surface Observations

12/FEB/2014 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - 23183) Surface Observations

09/FEB/2004 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 15704) Surface Observations

26/JUN/2012 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 23183) Surface Observations

13/OCT/2006 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 23230) Surface Observations

04/NOV/2003 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 23377) Surface Observations

16/JUN/2003 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M6180) Surface Observations

26/MAR/2014 REPLACE Thermometer, Terrestrial, Min (Now Unknown S/N - 29103) Surface Observations

14/MAR/2014 REPLACE Thermometer, Terrestrial, Min (Now Unknown S/N - 56701) Surface Observations

30/JAN/2017 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 31179) Surface Observations

24/JUL/2015 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 32878) Surface Observations

Visibility

08/MAY/2001 INSTALL Visibility Meter (Type Vaisala FD12 S/N - W05303) Surface Observations

06/NOV/2013 REMOVE Visibility Meter (Type Vaisala FD12 S/N - W05303) 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

25/MAR/1995 INSTALL Radar (Type WF100-5C S/N - 00062) Upper Air

25/MAR/1995 INSTALL Radar (Type WF100-5C S/N - 00062) WeatherWatch

03/OCT/2014 REMOVE Radar (Type WF100-5C S/N - 00062) Upper Air

03/OCT/2014 REMOVE Radar (Type WF100-5C S/N - 00062) WeatherWatch

Total Column Ozone Amount (No Electronic History)

Pressure

01/JAN/1957 INSTALL Barometer (Type Kew pattern mercury S/N - 2054) Surface Observations

16/JUL/1999 INSTALL Barometer (Type Vaisala DPA21 S/N - Unknown) Surface Observations

16/JUL/1999 INSTALL Barometer (Type Vaisala DPA21 S/N - Unknown) Upper Air

25/MAR/1995 INSTALL Barometer (Type Vaisala PA11A S/N - 661871) Surface Observations

07/JUL/2001 INSTALL Barometer (Type Vaisala PA11A S/N - 661871) Surface Observations

23/MAR/2013 REMOVE Barometer (Type Vaisala DPA21 S/N - Unknown) Surface Observations

15/OCT/2012 REMOVE Barometer (Type Vaisala DPA21 S/N - Unknown) Upper Air

25/MAR/1995 REMOVE Barometer (Type Vaisala PA11 S/N - Unknown) Surface Observations

06/JUL/2001 REMOVE Barometer (Type Vaisala PA11A S/N - 661871) Surface Observations

05/DEC/1989 REPLACE Barometer (Now Vaisala PA11 S/N - Unknown) Surface Observations

05/DEC/2002 REPLACE Barometer (Now Vaisala PA11A S/N - 653247) Surface Observations

05/DEC/2002 REPLACE Barometer (Now Vaisala PA11A S/N - 653247) Upper Air

21/MAY/2011 REPLACE Barometer (Now Vaisala PTB220B S/N - D3540118) Surface Observations

21/MAY/2011 REPLACE Barometer (Now Vaisala PTB220B S/N - D3540118) Upper Air

05/DEC/2002 SHARE Barometer (Type Vaisala PA11A S/N - 653247) Upper Air

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Extended Climatological Station Metadata

All History

Station:	EUCLA		Location:	EUCLA		State:	WA
Bureau No.:	011003	WMO No.:	94647	Aviation ID:	ECLT	Opened:	01 Jan 1876
Latitude:	-31.6797	Longitude:	128.8958	Elevation:	93.1 m	Barometer Elev:	93.6 m
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

05/DEC/2002 SHARE Barometer (Type Vaisala PA11A S/N - 661871) Upper Air
15/OCT/2012 UNSHARE Barometer (Type Vaisala PTB220B S/N - D3540118) Upper Air

Evaporation

01/JAN/1910 INSTALL Evaporation Pan (Type Australian sunken tank S/N - Unknown) Surface Observations
25/MAR/1995 INSTALL Evaporation Pan (Type Class A S/N - Unknown) Surface Observations
31/DEC/1919 REMOVE Evaporation Pan (Type Australian sunken tank S/N - Unknown) Surface Observations
24/MAY/2004 REPLACE Evaporation Pan (Now Class A S/N - Unknown) Surface Observations
08/DEC/2008 REPLACE Evaporation Pan (Now Class A S/N - Unknown) Surface Observations

Rainfall

25/MAR/1995 INSTALL Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
01/MAR/1997 REMOVE Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
01/JAN/1876 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
25/MAR/1995 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Surface Observations
01/MAR/1997 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96196) Rainfall Intensity
01/MAR/1997 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96196) Surface Observations
11/MAY/2005 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 84609) Rainfall Intensity
11/MAY/2005 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 84609) Surface Observations
12/JAN/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 77826) Rainfall Intensity
12/JAN/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 77826) Surface Observations
01/MAR/1997 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96196) Rainfall Intensity
07/JUL/2001 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96196) Surface Observations
01/MAR/1997 SHARE Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Rainfall Intensity
07/JUL/2001 SHARE Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Surface Observations
01/MAR/1997 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 77826) Rainfall Intensity
07/JUL/2001 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 77826) Surface Observations
06/JUL/2001 UNSHARE Raingauge (Type Rimco 7499 TBRG S/N - 84609) Surface Observations

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

25/OCT/1985 INSTALL Anemometer (Type Dwyer hand held S/N - Unknown) Surface Observations
07/JUL/2001 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - NONE) Surface Observations
25/MAR/1995 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 69055) Surface Observations
07/JUL/2001 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 69055) Surface Observations
16/JUL/1999 INSTALL Anemometer (Type Vaisala Cups WAA151 S/N - T39640) Surface Observations
16/JUL/1999 INSTALL Anemometer (Type Vaisala Vane WAV151 S/N - T40302) Surface Observations
01/JAN/1957 INSTALL Anemometer (Type Wind Vane S/N - Unknown) Surface Observations
25/MAR/1995 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
15/JUL/1999 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
25/MAR/1995 INSTALL Wind Run Anemometer (Type Munro S/N - CBM524) Surface Observations

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		Elevation:	93.1 m	Barometer Elev:	93.6 m
				Current Status:	Still open
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Station Equipment History (continued)

Equipment Install/Remove(Continued)

03/DEC/1992 REMOVE Anemometer (Type Dwyer hand held S/N - Unknown) Surface Observations
06/JUL/2001 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - 69055) Surface Observations
06/JUL/2001 REMOVE Anemometer (Type Vaisala Cups WAA151 S/N - T39640) Surface Observations
06/JUL/2001 REMOVE Anemometer (Type Vaisala Vane WAV151 S/N - T40302) Surface Observations
25/MAR/1995 REMOVE Anemometer (Type Wind Vane S/N - Unknown) Surface Observations
18/MAY/2013 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 0402) Surface Observations
25/FEB/2003 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 74088) Surface Observations
06/NOV/2013 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 89477) Surface Observations
30/MAR/2019 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - Unknown) Surface Observations
25/FEB/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - NONE) Surface Observations
25/FEB/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - NONE) Upper Air
05/FEB/2007 REPLACE Wind Run Anemometer (Now Munro S/N - 8800) Surface Observations
14/APR/2000 REPLACE Wind Run Anemometer (Now Munro S/N - CBM376) Surface Observations
04/FEB/2012 REPLACE Wind Run Anemometer (Now Munro S/N - CBM387) Surface Observations
25/FEB/2003 SHARE Anemometer (Type Synchrotac Vane - Type 706 S/N - 69055) Upper Air
15/OCT/2012 UNSHARE Anemometer (Type Synchrotac Vane - Type 706 S/N - NONE) Upper Air

Air Temperature

23/MAR/2013 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 60150674) Surface Observations
25/MAR/1995 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 0026) Surface Observations
16/JUL/1999 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 0485) Surface Observations
16/JUL/1999 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 0485) Upper Air
06/JUL/2001 REMOVE Temperature Probe - Dry Bulb (Type Rosemount S/N - 0026) Surface Observations
15/OCT/2012 UNSHARE Temperature Probe - Dry Bulb (Type Rosemount S/N - 0485) Upper Air
01/JAN/1926 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - Unknown) Surface Observations
09/OCT/2012 REMOVE Thermometer, Mercury, Dry Bulb (Type WIKA S/N - 23074) Surface Observations
08/MAR/2002 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 21789) Surface Observations
14/APR/2000 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - M6199) Surface Observations
25/MAR/1995 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - M6203) Surface Observations
21/NOV/2008 REPLACE Thermometer, Mercury, Dry Bulb (Now WIKA S/N - 23074) 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
13/DEC/2001 - 18/MAY/2013	Cloud Height	2
18/MAY/2013 - 06/NOV/2019	Humidity	0
14/APR/2000 - 08/APR/2011	Pressure Trend	0
14/APR/2000 - 16/FEB/2017	Lightning	0
27/MAY/1996 - 06/NOV/2019	Wind Direction	4
27/MAY/1996 - 20/MAR/2013	Wet Bulb Temperature	0

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Station Equipment History (continued)

Available Date Range	Element	Fail Field Performance Check
14/APR/2000 - 09/OCT/2012	Maximum Temperature	0
14/APR/2000 - 16/FEB/2017	Soil Temperature 10cm	0
14/APR/2000 - 16/FEB/2017	Soil Temperature 20cm	0
14/APR/2000 - 16/FEB/2017	Soil Temperature 50cm	0
14/APR/2000 - 16/FEB/2017	Soil Temperature 100cm	0
14/APR/2000 - 16/FEB/2017	Wind Run	0
28/FEB/2002 - 08/APR/2011	Minimum Temperature	0
14/APR/2000 - 16/FEB/2017	Terrestrial Minimum Temperature	0
09/MAY/2001 - 18/MAY/2013	Visibility	2
06/AUG/1997 - 09/JUN/2012	RF Reflectivity	1
27/MAY/1996 - 06/NOV/2019	Pressure	3
14/APR/2000 - 30/MAR/2019	Evaporation	1
10/JUL/1998 - 06/NOV/2019	Rainfall	3
27/MAY/1996 - 06/NOV/2019	Wind Speed	4
27/MAY/1996 - 06/NOV/2019	Air Temperature	2

Station Detail Changes

01/FEB/2021	CLASSIFICATION AWS Priority 3 - Standard (SLP3-AWS)
01/JUL/2011	CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT)
15/JUL/1999	CLASSIFICATION Autosonde (RSA) ENDED 08-10-2012
07/JUL/2001	CLASSIFICATION Building (FBL)
26/JUN/2002	CLASSIFICATION CLIMAT Stations (CLC)
26/JUN/2002	CLASSIFICATION CLIMAT TEMP Stations (CLT) ENDED 08-10-2012
10/JAN/2011	CLASSIFICATION Critical (ASOSCRIT)
01/JUL/1998	CLASSIFICATION Information and Observations (MIO) ENDED 08-10-2012
27/SEP/2021	CLASSIFICATION Mastered in EAMS (EAMS)
01/JUL/2017	CLASSIFICATION Observing Operations Hub - Adelaide (OOH-A)
21/MAR/2016	CLASSIFICATION Processed by ASOS (PBA)
01/JUL/1998	CLASSIFICATION Rawinsonde Stations (RS) ENDED 14-07-1999
14/FEB/1997	CLASSIFICATION Regional Basic Synoptic Network (RBSN)
08/APR/2011	OBJECT Document/011003110408tnt
30/MAR/2019	OBJECT Document/011003190330MstInsp
14/MAR/2013	OBJECT Document/ASOS_config_011003
10/DEC/2011	OBJECT Document/CEILOMETER STATUS
30/JUN/2010	OBJECT Document/Eucla co-op doc
26/JUN/2006	OBJECT Document/Eucla_Holdings
05/OCT/2005	OBJECT Document/RAPIC TX CAL DATA
08/JUN/2007	OBJECT Document/SKYLINE DATA
10/DEC/2011	OBJECT Document/VISIBILITY METER STATUS
01/JAN/1876	STATION - (nondb seeding) Opened
01/JAN/1876	STATION - (nondb seeding) aero_ht Changed to 7
01/JAN/1876	STATION - (nondb seeding) bar_ht Changed to 102.3
01/JAN/1876	STATION - (nondb seeding) bar_ht_deriv Changed to MAP 1:100 000

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Extended Climatological Station Metadata
All History

Station:	EUCLA		Location:	EUCLA		State:	WA
Bureau No.:	011003	WMO No.:	94647	Aviation ID:	ECLT	Opened:	01 Jan 1876
Latitude:	-31.6797	Longitude:	128.8958	Elevation:	93.1 m	Barometer Elev:	93.6 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

01/JAN/1876 STATION - (nondb seeding) latitude Changed to -31.6803Seeded from NonDb
01/JAN/1876 STATION - (nondb seeding) longitude Changed to 128.8769Seeded from NonDb
01/JAN/1876 STATION - (nondb seeding) name Changed to EUCLA
01/JAN/1876 STATION - (nondb seeding) stn_ht Changed to 93.1
01/JAN/1876 STATION - (nondb seeding) stn_ht_deriv Changed to MAP 1:100 000
01/JAN/1876 STATION - (nondb seeding) wmo_num Changed to 94647
01/JAN/1876 STATION aviation_id Changed to ECLT
22/MAR/2013 STATION bar_ht Changed to 93.6
22/MAR/2013 STATION bar_ht_deriv Changed to Unknown
05/DEC/2002 STATION latitude Changed to -31.6797GPS using WGS84
25/MAR/1995 STATION latitude Changed to -31.6806
05/DEC/2002 STATION latlon_deriv Changed to GPS
25/MAR/1995 STATION latlon_deriv Changed to SURVEY
01/JAN/1876 STATION latlon_deriv Changed to Unknown
25/MAR/1995 STATION latlon_error Changed to
25/MAR/1995 STATION longitude Changed to 128.8769
05/DEC/2002 STATION longitude Changed to 128.8958GPS using WGS84
25/MAR/1995 STATION lu_0_100m Changed to Coastal or Island
25/MAR/1995 STATION lu_100m_1km Changed to Coastal or Island
25/MAR/1995 STATION lu_1km_10km Changed to Coastal or Island
25/MAR/1995 STATION soil_type Changed to sand
25/MAR/1995 STATION surface_type Changed to bare ground

System Changes

25/MAR/1995 SYSTEM Infrastructure Commenced
25/MAR/1995 SYSTEM Rainfall Intensity Commenced
13/SEP/2014 SYSTEM Reference Standards Ceased
01/JAN/2011 SYSTEM Reference Standards Commenced
01/JAN/1876 SYSTEM Surface Observations Commenced
03/OCT/2014 SYSTEM Upper Air Ceased
25/MAR/1995 SYSTEM Upper Air Commenced
25/MAR/1995 SYSTEM WeatherWatch Commenced

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Notes on these metadata

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

Reliability of the metadata

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

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

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

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

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

Station Number

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

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

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Notes on these metadata

Network Classification

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

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

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Notes on these metadata

Network Classification Continued....

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

Station Purpose

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

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

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

Station Observation Program Summary

Surface Observations

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

Set a)

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

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Notes on these metadata

Surface observations continued....

Set b)

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

Current Station Equipment Summary

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

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

Station Equipment History

Equipment Install/Remove

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

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

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

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

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

Unshare - The instrument is no longer shared between systems

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Notes on these metadata

Calibration

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

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

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

Station Detail Changes

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

- STATION

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

Station position

- Latitude and longitude

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

- Height

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

Heights which may appear in these metadata are:

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

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Notes on these metadata

- Land Use

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

Defined Land use Types.

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

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

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

Defined Soil Type (At Enclosure).

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

Surface Type (At Enclosure).

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

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