



## Basic Climatological Station Metadata

Current status

Metadata compiled: 28 JUL 2025

**Station:** LAUNCESTON AIRPORT COMPARISON

**Bureau of Meteorology station number:** 091104

**Bureau of Meteorology district name:** Northern

**State:** TAS

**World Meteorological Organization number:** 94968

**Identification:** NO ID

**Network Classification:**

**Station purpose:** Synoptic, Upper Air, Aeronautical

**Automatic Weather Station:**



Current Station Location				
Latitude	Decimal	-41.5397	Hour Min Sec	41°32'23"S
Longitude	Decimal	147.2033	Hour Min Sec	147°12'12"E
Station Height	166 m	Barometer Height	178 m	
Method of station geographic positioning			GPS	

**Year opened:** 1931

**Status:** Closed

### Station summary

No summary for this site has been written as yet.

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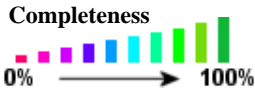
Basic Climatological Station Metadata  
Current status

Station:	LAUNCESTON AIRPORT COMPARISON	Location:	LAUNCESTON AIRPORT COMPARISON	State:	TAS
Bureau No.:	091104	WMO No.:	94968	Aviation ID:	NO ID
				Opened:	01 Jan 1931
Latitude:	-41.5397	Longitude:	147.2033	Elevation:	166 m
				Barometer Elev:	178 m
				Metadata compiled:	28 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	FEB 1966	JUN 2009	92.1	842	13
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	APR 1970	MAY 2009	90.2	1064	11
GROUND MINIMUM TEMPERATURE	JUL 1951	JUL 2004	98.1	366	0
MAXIMUM AIR TEMPERATURE	APR 1939	JUN 2009	99.1	209	0
MAXIMUM WIND GUST SPEED	JAN 1941	JUN 2009	99.4	148	0
SUNSHINE HOURS	JAN 1966	JUL 2004	84.4	123	68
WIND RUN ABOVE 10 FEET	MAR 1995	JUN 2009	97.9	106	0
WIND RUN BELOW 10 FEET	APR 1970	MAY 2009	94.3	693	4
RAINFALL	JUL 1931	JUN 2009	99	N/A	N/A

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<b>Bureau No.:</b> 091104	<b>WMO No.:</b> 94968	<b>Aviation ID:</b> NO ID	<b>Opened:</b> 01 Jan 1931		<b>Current Status:</b> Closed
<b>Latitude:</b> -41.5397	<b>Longitude:</b> 147.2033	<b>Elevation:</b> 166 m	<b>Barometer Elev:</b> 178 m	<b>Metadata compiled:</b> 28 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	APR 1939	JUN 2009	99.5	7.5	17	0
DEW POINT	AUG 1948	JUN 2009	94.5	8.0	54	35
MEAN SEA LEVEL PRESSURE	JUL 1951	JUL 2004	99.6	8.0	2	0
SOIL TEMPERATURE - 10cm	DEC 2001	JUL 2004	95.1	1.5	24	0
TOTAL CLOUD AMOUNT	APR 1939	JUL 2004	99.2	7.2	7	0
WIND SPEED	APR 1939	JUN 2009	99.6	7.5	13	0
UPPER AIR WIND SPEED	JAN 1938	JUN 2004	81.2	3.3	1432	21

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RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	JUL 1938	JUN 2009	93.3	1204	17

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	DEC 2001	JUL 2004	98.4	1417.0	N/A	1

HALF-HOURLY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	OCT 1990	JUN 2009	84.4	40.5	N/A	0

THERE ARE NO UPPER-AIR EDT DATA HOLDINGS

Holdings calculated up to 01 Jul 2025

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

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

Unlisted element

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

Listed element to use

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

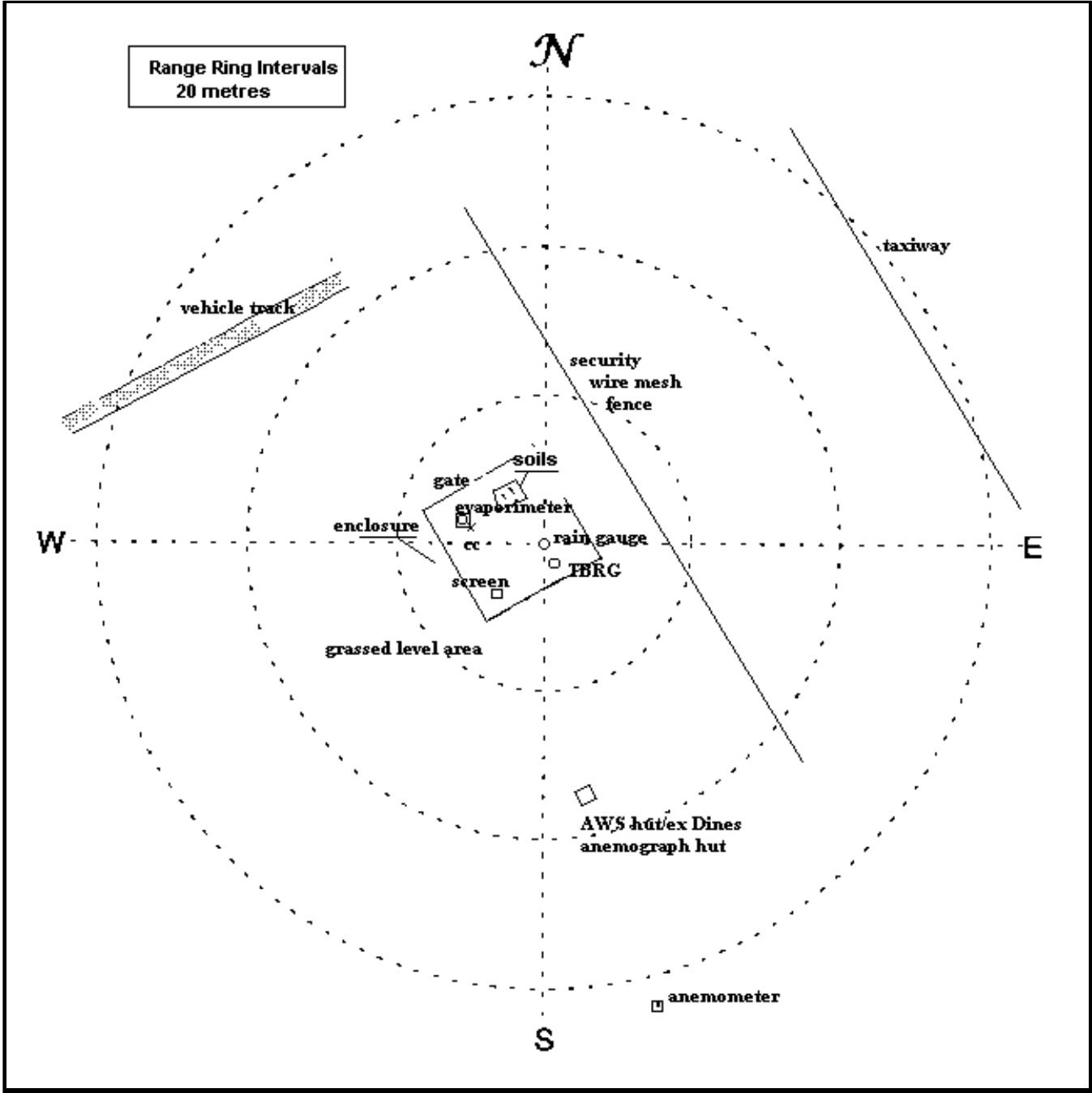
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Extended Climatological Station Metadata  
All History

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Latitude:	-41.5397	Longitude:	147.2033	Elevation:	166 m	Barometer Elev:	178 m	Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features  
14/05/2009(most recent)



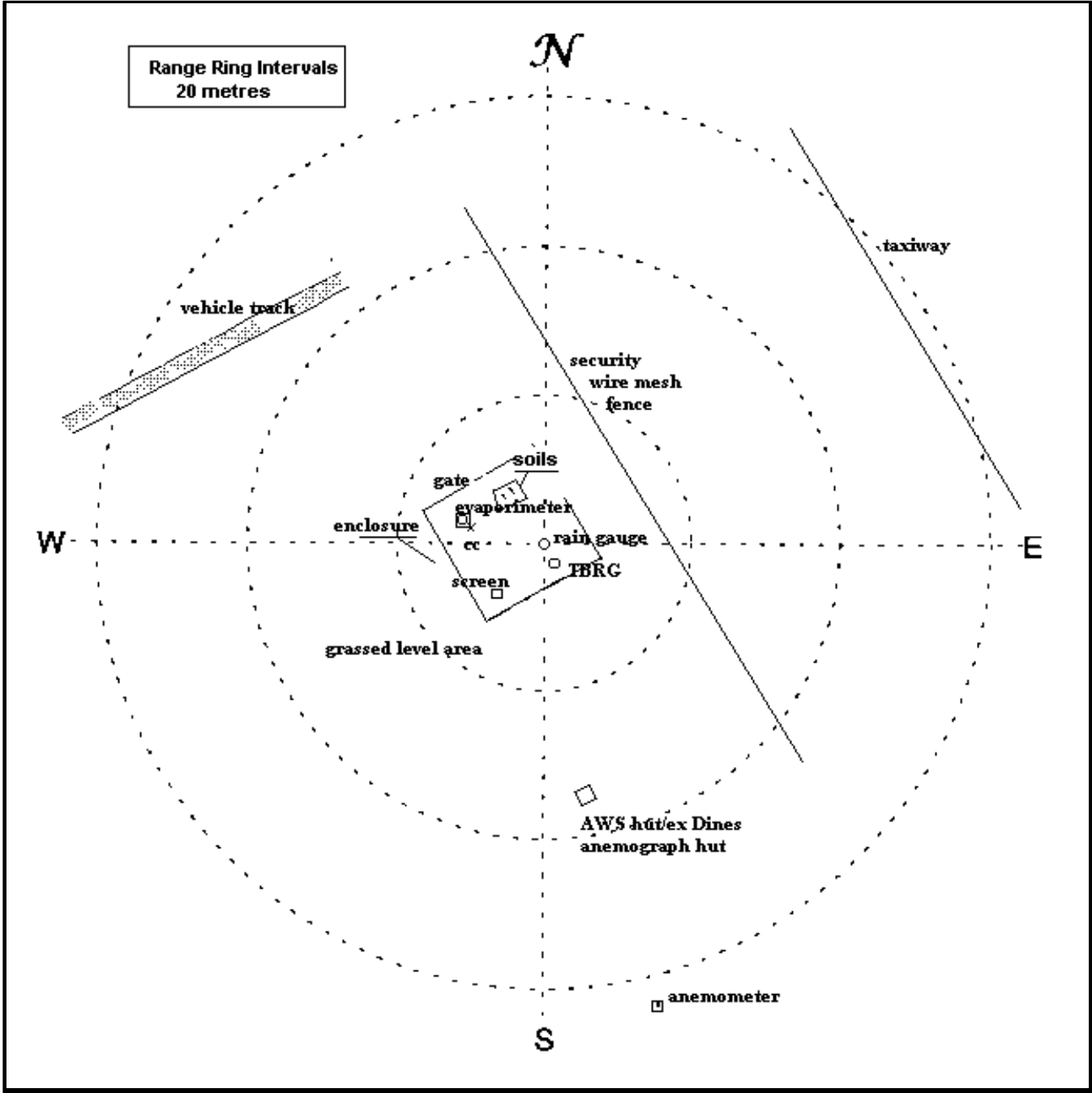
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							<b>Current Status:</b>	Closed
							<b>Metadata compiled:</b>	28 JUL 2025

Instrument Location and Surrounding Features  
14/12/2007



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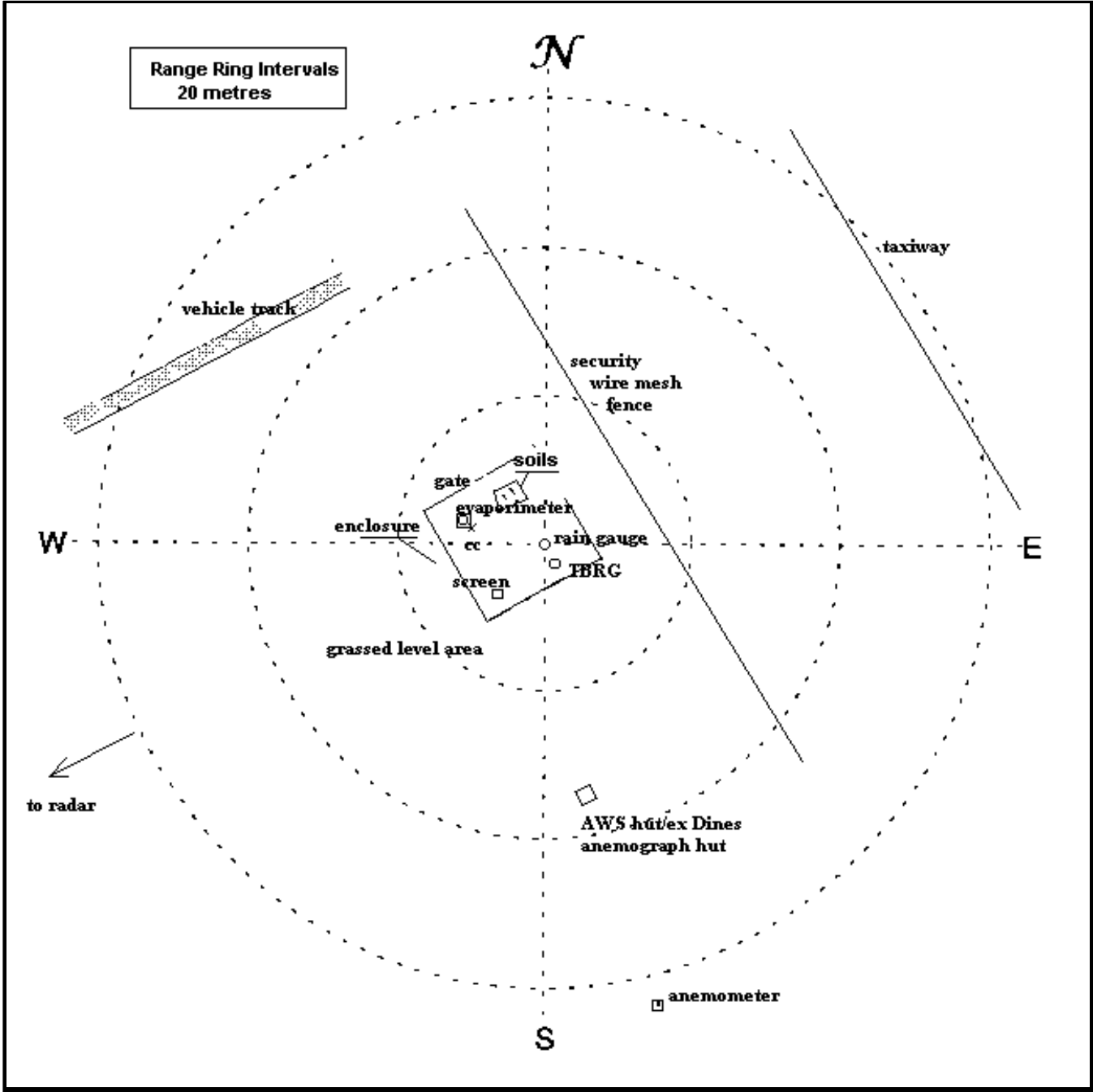
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Instrument Location and Surrounding Features  
11/07/2003



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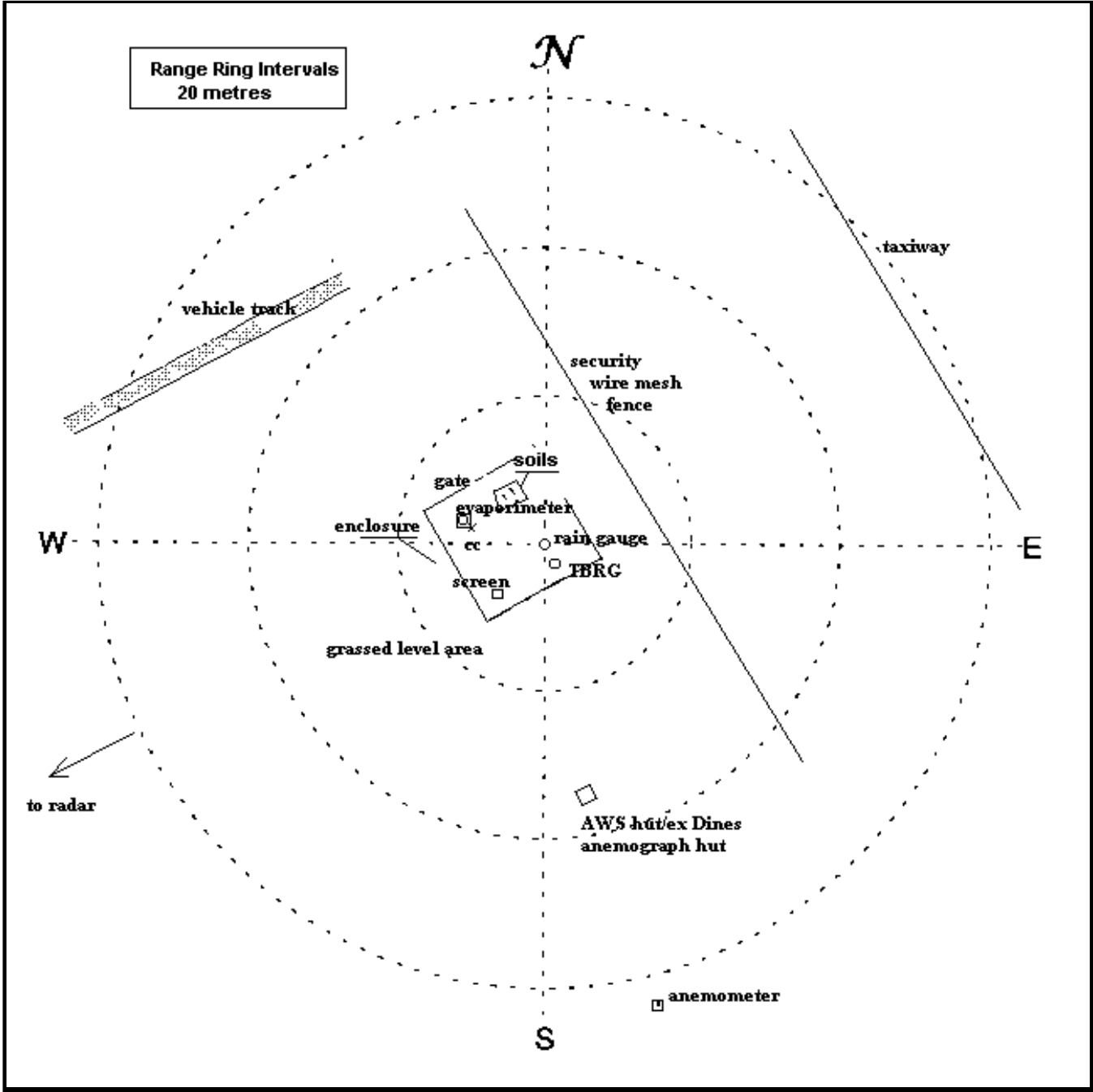
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Instrument Location and Surrounding Features  
23/10/1999



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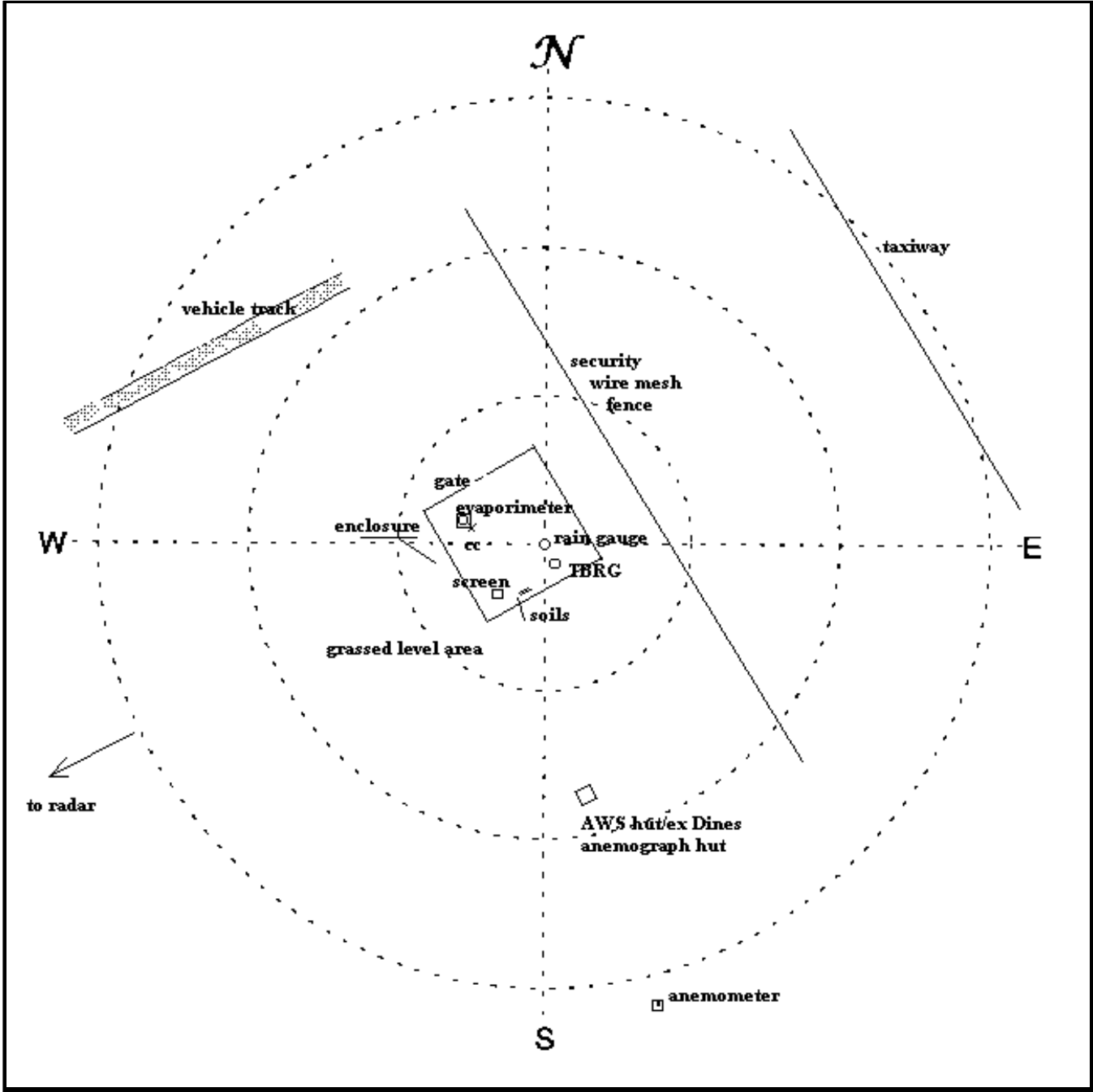




Extended Climatological Station Metadata  
All History

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Instrument Location and Surrounding Features  
23/01/1998



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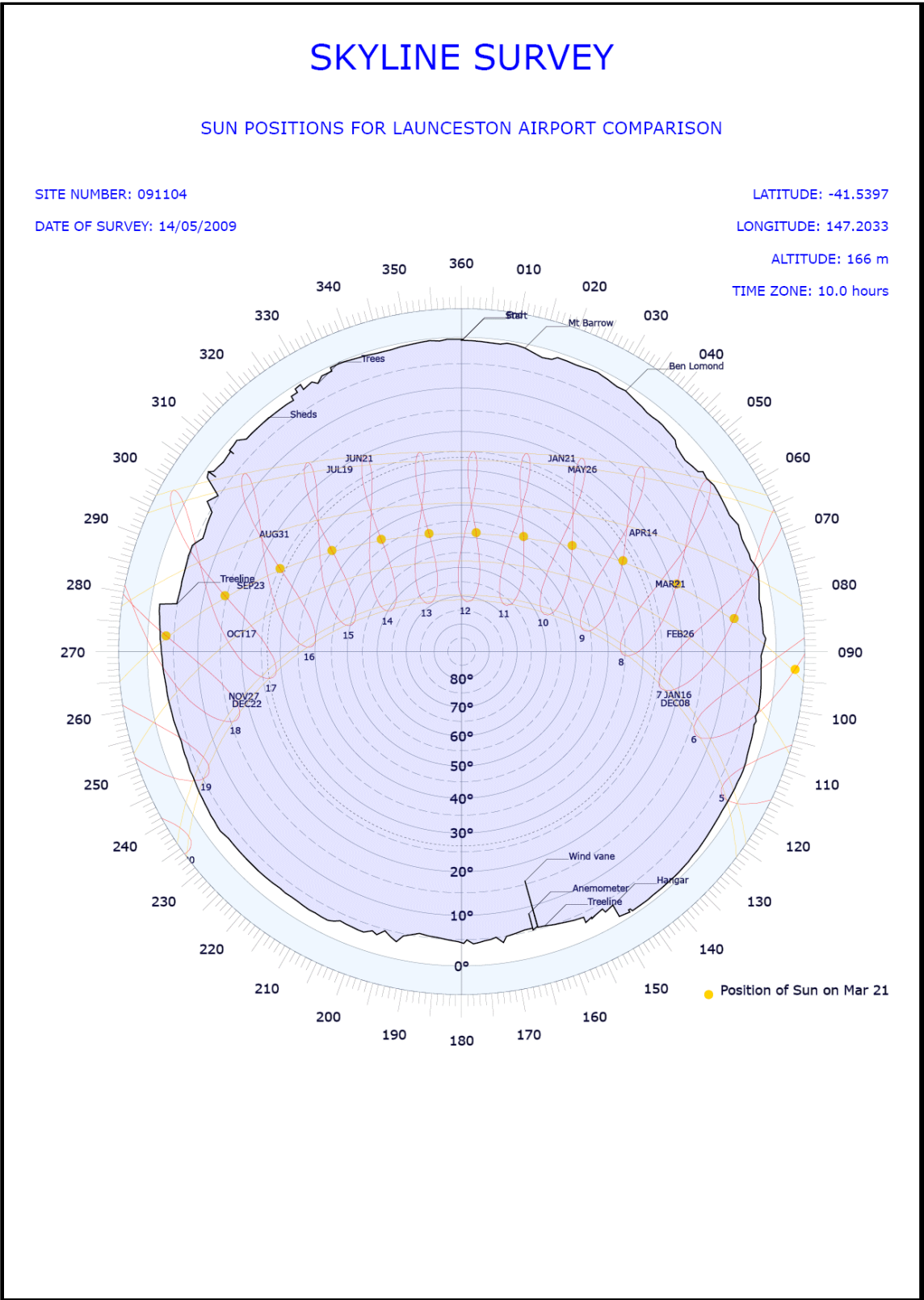
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Skyline Diagram  
14/05/2009(most recent)



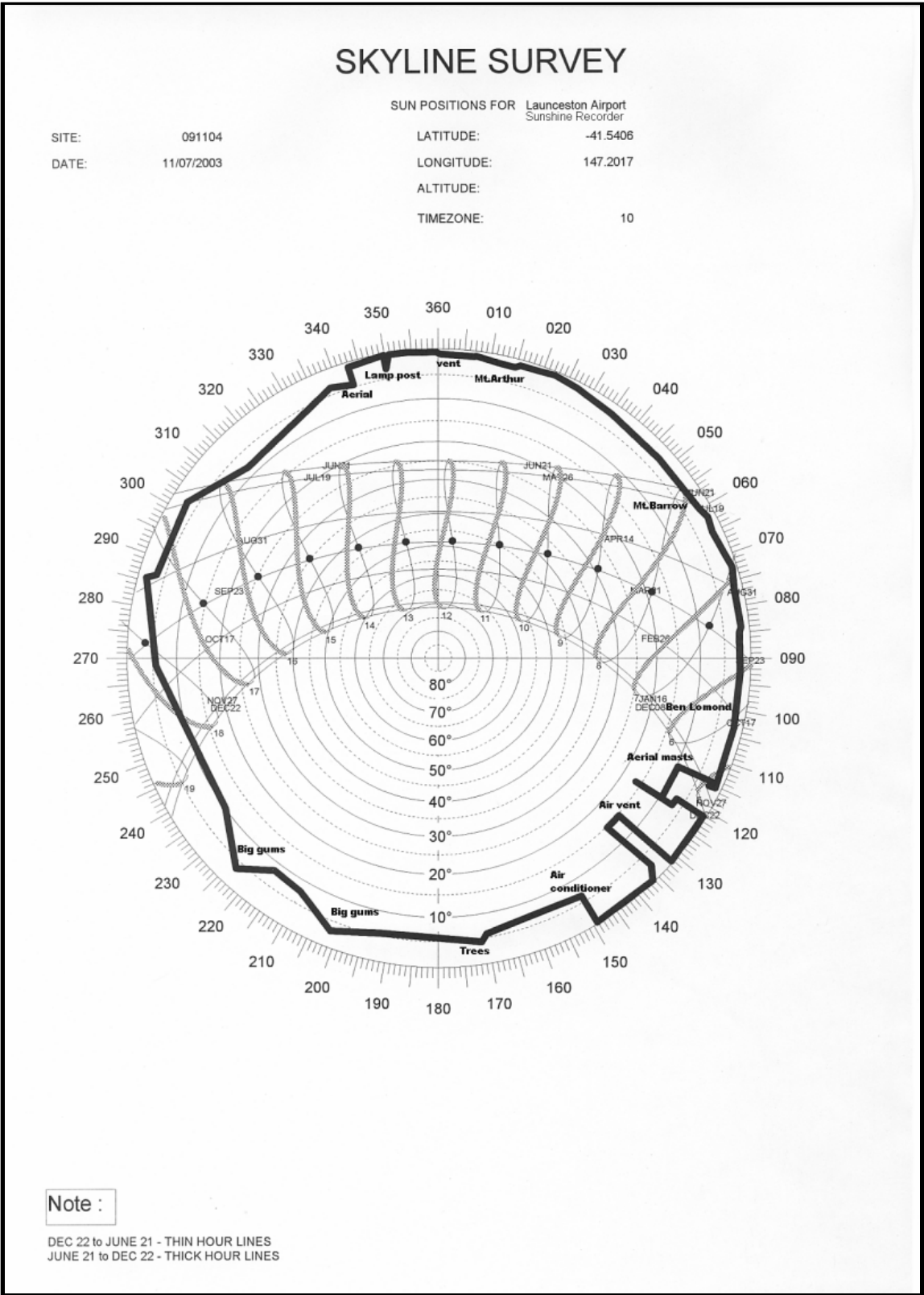
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Metadata compiled:							28 JUL 2025

Skyline Diagram  
11/07/2003



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Station Observation Program Summary (Surface Observations) from 01/07/1931 to 03/11/2003

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 03/11/2003 to 12/07/2004

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) from 12/07/2004 to 29/07/2004

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	-	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 29/07/2004 to 17/06/2009

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	-	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 31/08/1999

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	Y	Y	Y	Y	Y	Y	
	Wind	00:00	Y	Y	Y	Y	Y	Y	



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### Upper Air Routine 31/08/1999 to 10/09/2002

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	-	-	-	-	-	-	-

### Upper Air Routine 10/09/2002 to 08/12/2003

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	-	-	-	-	-	-	-
Wind	18:00	-	-	-	-	-	-	-

### Upper Air Routine 08/12/2003 to 11/07/2004

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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Station Equipment History

Equipment Install/Remove

Cloud Height

01/APR/1939 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - NONE) Surface Observations  
01/FEB/2007 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - NONE) Surface Observations

Humidity

01/JUL/1931 INSTALL Hygograph (Type Unknown S/N - Unknown) Surface Observations  
01/SEP/1969 REMOVE Hygograph (Type Unknown S/N - Unknown) Surface Observations  
01/JUL/1931 INSTALL Thermohygograph (Type Unknown S/N - Unknown) Surface Observations  
01/SEP/1969 REMOVE Thermohygograph (Type Unknown S/N - Unknown) Surface Observations

Pressure Trend (No Electronic History)

Lightning (No Electronic History)

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

19/MAY/1992 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 71/417) Surface Observations  
19/MAY/1992 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - CARTRIDGE-JE75566141) Surface Observations  
01/APR/1970 INSTALL Wind Run Anemometer (Type Synchrotac S/N - Unknown) Surface Observations  
17/JUN/2009 REMOVE Anemometer (Type Synchrotac Cups - Type 732 S/N - 71/417) Surface Observations  
17/JUN/2009 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - CARTRIDGE-JE75566141) Surface Observations  
17/JUN/2009 REMOVE Wind Run Anemometer (Type Synchrotac S/N - CBM618) Surface Observations  
23/JAN/1998 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 313) Surface Observations  
27/AUG/1998 REPLACE Wind Run Anemometer (Now Synchrotac S/N - CBM618) Surface Observations

Wet Bulb Temperature

19/MAY/1992 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 07/597) Surface Observations  
17/JUN/2009 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 07/597) Surface Observations  
01/APR/1939 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - M0822) Surface Observations  
30/JUL/2004 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - M0822) Surface Observations

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

01/APR/1939 INSTALL Thermometer, Mercury, Max (Type Unknown S/N - Unknown) Surface Observations  
30/JUL/2004 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - 20619) Surface Observations  
18/DEC/1998 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 13405) Surface Observations  
17/JUN/2000 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 15574) Surface Observations  
10/JAN/2002 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 20619) Surface Observations

Soil Temperature 10cm

01/OCT/1990 INSTALL Thermometer, Soil, 10cm (Type Unknown S/N - Unknown) Surface Observations  
17/JUN/2009 REMOVE Thermometer, Soil, 10cm (Type Dobros S/N - 9725439) Surface Observations  
25/MAY/2000 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - 96404897) Surface Observations  
09/JAN/2002 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - 9725439) Surface Observations

Soil Temperature 20cm

01/OCT/1990 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - 9725390) Surface Observations  
17/JUN/2009 REMOVE Thermometer, Soil, 20cm (Type Dobros S/N - 0011834) Surface Observations  
24/AUG/2005 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 0011834) Surface Observations

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## Extended Climatological Station Metadata

All History

<b>Station:</b>	LAUNCESTON AIRPORT COMPARISON			<b>Location:</b>	LAUNCESTON AIRPORT COMPARISON			<b>State:</b>	TAS
<b>Bureau No.:</b>	091104	<b>WMO No.:</b>	94968	<b>Aviation ID:</b>	NO ID	<b>Opened:</b>	01 Jan 1931	<b>Current Status:</b>	Closed
<b>Latitude:</b>	-41.5397	<b>Longitude:</b>	147.2033	<b>Elevation:</b>	166 m	<b>Barometer Elev:</b>	178 m	<b>Metadata compiled:</b>	28 JUL 2025

## Station Equipment History (continued)

### Equipment Install/Remove(Continued)

#### Soil Temperature 50cm (No Electronic History)

#### Snow Height (No Electronic History)

#### Soil Temperature 100cm (No Electronic History)

#### Sunshine Hours

01/JAN/1966 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - CBM025) Surface Observations

30/JUL/2004 REMOVE Sunshine Recorder (Type Campbell-Stokes S/N - CBM025) Surface Observations

#### Wind Run

01/APR/1970 INSTALL Wind Run Anemometer (Type Synchrotac S/N - Unknown) Surface Observations

17/JUN/2009 REMOVE Wind Run Anemometer (Type Synchrotac S/N - CBM618) Surface Observations

23/JAN/1998 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 313) Surface Observations

27/AUG/1998 REPLACE Wind Run Anemometer (Now Synchrotac S/N - CBM618) Surface Observations

#### Minimum Temperature

01/APR/1939 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - S6658) Surface Observations

30/JUL/2004 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - S6658) Surface Observations

#### Terrestrial Minimum Temperature

01/JUL/1951 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - 14422) Surface Observations

30/JUL/2004 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - 14422) Surface Observations

#### Visibility (No Electronic History)

#### 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/JUL/1966 INSTALL Radar (Type WF2 S/N - Unknown) Upper Air

11/JUL/2004 REMOVE Radar (Type WF3 S/N - Unknown) Upper Air

22/MAY/1998 REPLACE Radar (Now WF3 S/N - Unknown) Upper Air

#### Total Column Ozone Amount (No Electronic History)

#### Pressure

01/JUL/1951 INSTALL Barometer (Type Kew pattern mercury S/N - 1539) Surface Observations

19/MAY/1992 INSTALL Barometer (Type Vaisala PA11A S/N - 433543) Surface Observations

27/AUG/1998 REMOVE Barometer (Type Kew pattern mercury S/N - 2009) Surface Observations

29/JUL/2004 REMOVE Barometer (Type Vaisala PA11A S/N - 679523) Surface Observations

09/JAN/1979 REPLACE Barometer (Now Kew pattern mercury S/N - 1694) Surface Observations

01/SEP/1969 REPLACE Barometer (Now Kew pattern mercury S/N - 1739) Surface Observations

01/NOV/1985 REPLACE Barometer (Now Kew pattern mercury S/N - 2009) Surface Observations

14/JUL/1975 REPLACE Barometer (Now Kew pattern mercury S/N - Unknown) Surface Observations

04/NOV/1983 REPLACE Barometer (Now Kew pattern mercury S/N - Unknown) Surface Observations

11/JAN/2001 REPLACE Barometer (Now Vaisala PA11A S/N - 679523) Surface Observations

#### Evaporation

01/APR/1966 INSTALL Evaporation Pan (Type Class A S/N - NONE) Surface Observations

17/JUN/2009 REMOVE Evaporation Pan (Type Class A S/N - NONE) Surface Observations

#### Rainfall

01/JUL/1938 INSTALL Pluviograph (Type Unknown S/N - Unknown) Rainfall Intensity

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## Extended Climatological Station Metadata

All History

<b>Station:</b>	LAUNCESTON AIRPORT COMPARISON			<b>Location:</b>	LAUNCESTON AIRPORT COMPARISON			<b>State:</b>	TAS
<b>Bureau No.:</b>	091104	<b>WMO No.:</b>	94968	<b>Aviation ID:</b>	NO ID	<b>Opened:</b>	01 Jan 1931	<b>Current Status:</b>	Closed
<b>Latitude:</b>	-41.5397	<b>Longitude:</b>	147.2033	<b>Elevation:</b>	166 m	<b>Barometer Elev:</b>	178 m	<b>Metadata compiled:</b>	28 JUL 2025

## Station Equipment History (continued)

### Equipment Install/Remove(Continued)

30/JUN/1996 REMOVE Pluviograph (Type Unknown S/N - Unknown) Rainfall Intensity  
01/JUL/1931 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations  
19/MAY/1992 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - G8953) Surface Observations  
17/JUN/2009 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations  
17/JUN/2009 REMOVE Raingauge (Type Rimco 8020 TBRG S/N - 75527) Rainfall Intensity  
17/JUN/2009 REMOVE Raingauge (Type Rimco 8020 TBRG S/N - 75527) Surface Observations  
31/JUL/2000 REPLACE Raingauge (Now 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations  
16/MAY/1996 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 95/067) Rainfall Intensity  
16/MAY/1996 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 95/067) Surface Observations  
19/MAY/1998 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 75527) Rainfall Intensity  
19/MAY/1998 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 75527) Surface Observations  
16/MAY/1996 SHARE Raingauge (Type HS TB3A-0.2 S/N - 95/067) Rainfall Intensity  
16/MAY/1996 SHARE Raingauge (Type Rimco 7499 TBRG S/N - G8953) Rainfall Intensity  
16/MAY/1996 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 75527) 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

19/MAY/1992 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 71/417) Surface Observations  
19/MAY/1992 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - CARTRIDGE-JE75566141) Surface Observations  
01/APR/1970 INSTALL Wind Run Anemometer (Type Synchrotac S/N - Unknown) Surface Observations  
17/JUN/2009 REMOVE Anemometer (Type Synchrotac Cups - Type 732 S/N - 71/417) Surface Observations  
17/JUN/2009 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - CARTRIDGE-JE75566141) Surface Observations  
17/JUN/2009 REMOVE Wind Run Anemometer (Type Synchrotac S/N - CBM618) Surface Observations  
23/JAN/1998 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 313) Surface Observations  
27/AUG/1998 REPLACE Wind Run Anemometer (Now Synchrotac S/N - CBM618) Surface Observations

### Air Temperature

19/MAY/1992 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 07/598) Surface Observations  
17/JUN/2009 REMOVE Temperature Probe - Dry Bulb (Type Rosemount S/N - 07/598) Surface Observations  
01/JUL/1931 INSTALL Thermohygrograph (Type Unknown S/N - Unknown) Surface Observations  
01/SEP/1969 REMOVE Thermohygrograph (Type Unknown S/N - Unknown) Surface Observations  
01/APR/1939 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - M0615) Surface Observations  
30/JUL/2004 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - M0615) Surface Observations

### Surface Inclination (No Electronic History)

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## Extended Climatological Station Metadata

### All History

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<b>Bureau No.:</b>	091104	<b>WMO No.:</b>	94968	<b>Aviation ID:</b>	NO ID	<b>Opened:</b>	01 Jan 1931	<b>Current Status:</b>	Closed
<b>Latitude:</b>	-41.5397	<b>Longitude:</b>	147.2033	<b>Elevation:</b>	166 m	<b>Barometer Elev:</b>	178 m	<b>Metadata compiled:</b>	28 JUL 2025

## Station Equipment History (continued)

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
23/JAN/1998 - 14/MAY/2009	Wind Direction	1
29/APR/1999 - 14/MAY/2009	Wet Bulb Temperature	0
24/JUL/2001 - 11/JUL/2003	Maximum Temperature	0
24/JUL/2001 - 14/MAY/2009	Soil Temperature 10cm	0
24/JUL/2001 - 14/MAY/2009	Soil Temperature 20cm	0
24/JUL/2001 - 14/MAY/2009	Wind Run	1
24/JUL/2001 - 11/JUL/2003	Minimum Temperature	0
24/JUL/2001 - 11/JUL/2003	Terrestrial Minimum Temperature	0
23/JAN/1998 - 19/MAR/2004	Pressure	2
03/JUL/2002 - 14/MAY/2009	Evaporation	0
23/JAN/1998 - 14/MAY/2009	Rainfall	4
23/JAN/1998 - 14/MAY/2009	Wind Speed	1
23/JAN/1998 - 14/MAY/2009	Air Temperature	0

### Station Detail Changes

26/JUN/2002 CLASSIFICATION CLIMAT Stations (CLC) ENDED 31-05-2009  
24/SEP/2007 CLASSIFICATION Excluded from Web Access (RWEBX) ENDED 31-05-2009  
19/MAY/1992 CLASSIFICATION Fielden (FFD) ENDED 31-05-2009  
01/JUL/2018 CLASSIFICATION HQ EVAPORATION (HQEVAP)  
01/JUL/1998 CLASSIFICATION Local Forecasting, Information and Observations (WSO) ENDED 01-08-2004  
14/FEB/1997 CLASSIFICATION Regional Basic Synoptic Network (RBSN) ENDED 14-06-2004  
12/JUL/2004 CLASSIFICATION Surface Observations only (SO) ENDED 01-08-2004  
01/JUL/1998 CLASSIFICATION Upper Wind only (UW) ENDED 12-07-2004  
11/JUL/2003 OBJECT Document/091104030711  
11/JUL/2003 OBJECT Document/091104030711RG  
12/JUL/2004 OBJECT Document/091311ApprovalAmend  
05/FEB/2001 OBJECT Document/F611 YMLT0102  
11/JUL/2003 OBJECT Document/F611 YMLT0307  
23/JAN/1998 OBJECT Document/F611 YMLT9801  
14/MAY/2009 OBJECT Document/SKYLINE DATA  
01/JAN/1931 STATION - (nondb seeding) Opened  
01/JAN/1931 STATION - (nondb seeding) aero\_ht Changed to 171.3  
01/JAN/1931 STATION - (nondb seeding) wmo\_num Changed to 94968  
17/JUN/2009 STATION Closed  
31/MAY/2009 STATION aviation\_id Changed to  
12/JUL/2004 STATION aviation\_id Changed to LAPT  
01/JAN/1931 STATION aviation\_id Changed to YMLT  
01/JAN/1931 STATION bar\_ht Changed to 174

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Extended Climatological Station Metadata  
All History

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<b>Bureau No.:</b>	091104	<b>WMO No.:</b>	94968	<b>Aviation ID:</b>	NO ID	<b>Opened:</b>	01 Jan 1931	<b>Current Status:</b>	Closed
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Station Equipment History (continued)

Station Detail Changes(Continued)

21/AUG/1959 STATION bar\_ht Changed to 177  
01/SEP/1969 STATION bar\_ht Changed to 178  
01/JAN/1931 STATION bar\_ht\_deriv Changed to MAP 1:100 000  
21/AUG/1959 STATION bar\_ht\_deriv Changed to MAP 1:100 000  
01/SEP/1969 STATION bar\_ht\_deriv Changed to SURVEY  
16/JUN/1961 STATION latitude Changed to -41.5397WGS 84  
01/JAN/1931 STATION latitude Changed to -41.5503Approximate original site using letter s300/170 dated 10/07/1936 and F63 dated 10/07/1943 on ROS file 091104 vol 1 and 2.using thelist.tas.gov.au...  
16/JUN/1961 STATION latlon\_deriv Changed to GPS  
01/JAN/1931 STATION latlon\_deriv Changed to MAP 1:25 000  
16/JUN/1961 STATION latlon\_error Changed to  
16/JUN/1961 STATION longitude Changed to 147.2033WGS 84  
01/JAN/1931 STATION longitude Changed to 147.2092Approximate original site using letter s300/170 dated 10/07/1936 and F63 dated 10/07/1943 on ROS file 091104 vol 1 and 2.using thelist.tas.gov.au...  
23/JAN/1998 STATION lu\_0\_100m Changed to Airport  
23/JAN/1998 STATION lu\_100m\_1km Changed to Airport  
23/JAN/1998 STATION lu\_1km\_10km Changed to Small town < 1000 population  
16/JUN/1961 STATION name Changed to LAUNCESTON AIRPORT  
12/JUL/2004 STATION name Changed to LAUNCESTON AIRPORT COMPARISON  
01/JAN/1931 STATION name Changed to WESTERN JUNCTION  
23/JAN/1998 STATION soil\_type Changed to clay  
01/JAN/1931 STATION stn\_ht Changed to 166  
01/JAN/1931 STATION stn\_ht\_deriv Changed to MAP 1:25 000  
23/JAN/1998 STATION surface\_type Changed to fully covered by grass  
31/MAY/2009 STATION wmo\_num Changed to  
25/AUG/2020 STATION wmo\_num Changed to 94968

System Changes

27/JUN/2006 SYSTEM Flood Warning Ceased  
01/NOV/2001 SYSTEM Flood Warning Commenced  
26/JUN/2006 SYSTEM Infrastructure Ceased  
01/JAN/1966 SYSTEM Infrastructure Commenced  
17/JUN/2009 SYSTEM Rainfall Intensity Ceased  
01/JUL/1938 SYSTEM Rainfall Intensity Commenced  
01/JUL/1931 SYSTEM Surface Observations Commenced  
11/JUL/2004 SYSTEM Upper Air Ceased  
01/JAN/1966 SYSTEM Upper Air Commenced

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## Notes on these metadata

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

### Reliability of the metadata

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

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

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

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

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

### Station Number

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

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

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## Notes on these metadata

### Network Classification

<b>SUPPORTING the BASIC CLIMATE SERVICE</b>
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)
<b>SUPPORTING the NATIONAL WEATHER WATCH SYSTEM</b>
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)
<b>SUPPORTING the BASIC WEATHER SERVICE (BWS)</b>
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
<b>SUPPORTING the BASIC HYDROLOGICAL SERVICE</b>
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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