



Basic Climatological Station Metadata  
Current status

Metadata compiled: 26 JUL 2025

Station: GERALDTON AIRPORT COMPARISON

Bureau of Meteorology station number: 008051  
Bureau of Meteorology district name: North Coast  
State: WA

World Meteorological Organization number: 95403  
Identification: GEAP

Network Classification:  
Station purpose: Synoptic, Upper Air, Aeronautical  
Automatic Weather Station:



Current Station Location				
Latitude	Decimal	-28.7953	Hour Min Sec	28°47'43"S
Longitude	Decimal	114.6975	Hour Min Sec	114°41'51"E
Station Height	33 m	Barometer Height	35 m	
Method of station geographic positioning			GPS	

Year opened: 1941  
Status: Closed

Station summary

No summary for this site has been written as yet.

Historical metadata for this site has not been quality controlled for accuracy and completeness. Data other than current station information, particularly earlier than 1998, should be considered accordingly. Information may not be complete, as backfilling of historical data is incomplete.



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Current status

Station:	GERALDTON AIRPORT COMPARISON		Location:	GERALDTON AIRPORT COMPARISON		State:	WA
Bureau No.:	008051	WMO No.:	95403	Aviation ID:	GEAP	Opened:	01 Jan 1941
Latitude:	-28.7953	Longitude:	114.6975	Elevation:	33 m	Barometer Elev:	35 m
						Current Status:	Closed
						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	MAY 1967	JUL 2011	98.8	58	4
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	JAN 1969	JUN 2011	93.0	464	20
GROUND MINIMUM TEMPERATURE	JUN 1957	JUL 2011	99.4	114	0
MAXIMUM AIR TEMPERATURE	AUG 1941	JUN 2014	97.6	192	14
MAXIMUM WIND GUST SPEED	FEB 1957	JUN 2014	99.1	185	0
WIND RUN ABOVE 10 FEET	MAY 1992	JUN 2014	96.8	252	0
WIND RUN BELOW 10 FEET	FEB 1969	JUL 2011	97.2	391	1
RAINFALL	AUG 1941	JUN 2014	98	N/A	N/A

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HOURLY DATA HOLDINGS - from 1 to 24 observations per day

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
AIR TEMPERATURE	AUG 1941	JUN 2014	97.5	7.5	98	8
DEW POINT	AUG 1941	JUN 2014	97.5	7.5	114	8
MEAN SEA LEVEL PRESSURE	JAN 1942	JUL 2011	97.6	7.5	54	8
PRECIPITATION SINCE LAST OBS	JAN 1960	AUG 1999	79.6	5.9	2402	3
SOIL TEMPERATURE - 10cm	SEP 1986	JUL 2011	43.3	7.0	44	163
TOTAL CLOUD AMOUNT	AUG 1941	JUL 2011	96.1	6.9	77	8
WIND SPEED	AUG 1941	JUN 2014	97.6	7.5	96	8
UPPER AIR TEMPERATURE	APR 1988	JUL 2011	68.3	1.7	586	2
UPPER AIR WIND SPEED	JAN 1950	JUL 2011	89.8	3.7	283	16

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RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	APR 1953	SEP 2011	93.1	1001	15

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	NOV 2002	JUN 2014	98.9	1424.5	N/A	6

HALF-HOURLY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	DEC 1993	JUN 2014	101.2	48.6	N/A	11

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	Nov 2000	Mar 2019	N/A	1.6	688	1
Wind, temperature and pressure flights	May 1991	Apr 2018	N/A	1.1	1484	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

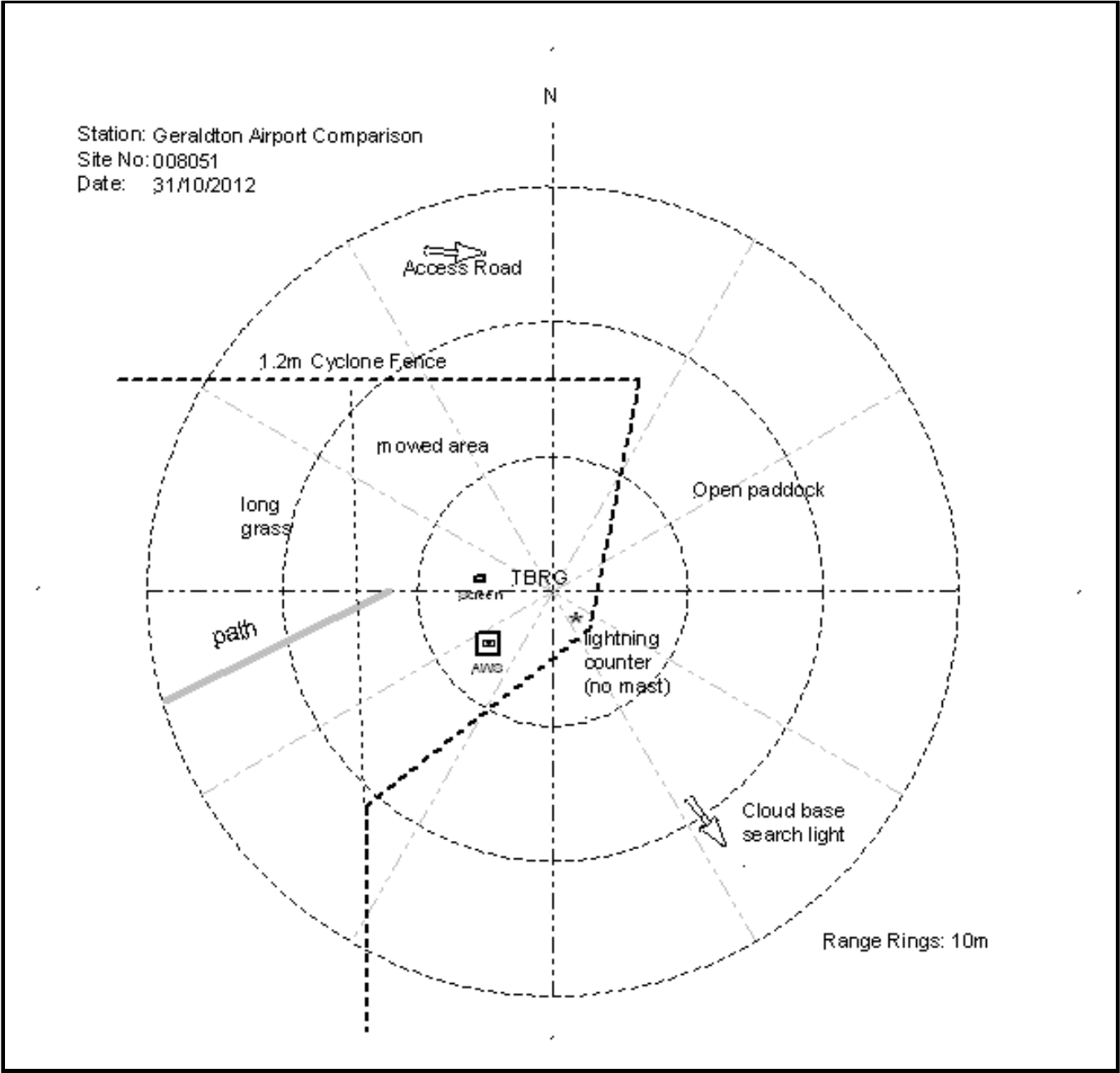
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Extended Climatological Station Metadata  
All History

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Current Status:							Closed
Metadata compiled:							26 JUL 2025

Instrument Location and Surrounding Features  
31/10/2012(most recent)

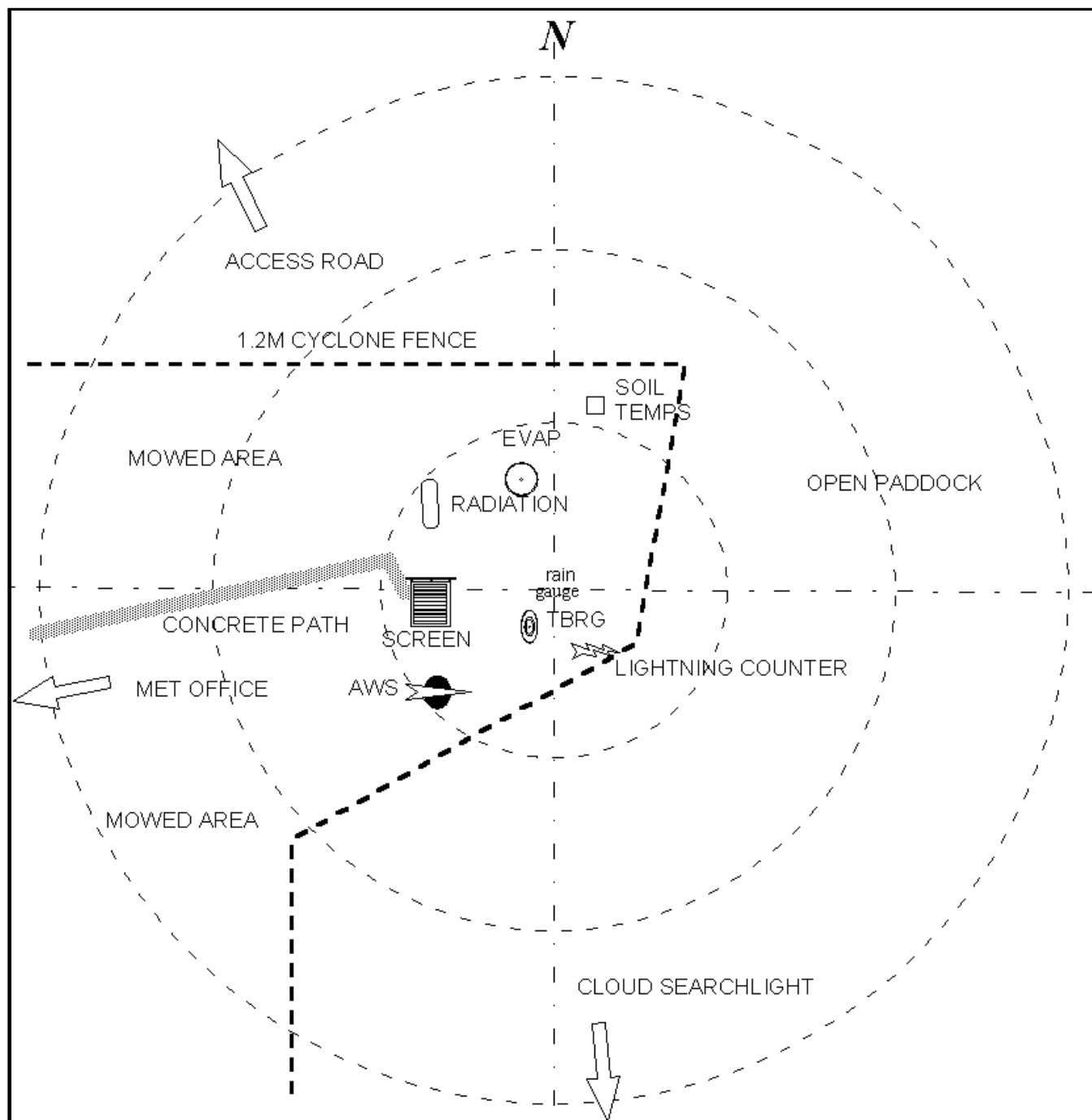


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## All History

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<b>Bureau No.:</b>	008051	<b>WMO No.:</b>	95403	<b>Aviation ID:</b>	GEAP	<b>Opened:</b>	01 Jan 1941	<b>Current Status:</b>	Closed
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22/08/1997



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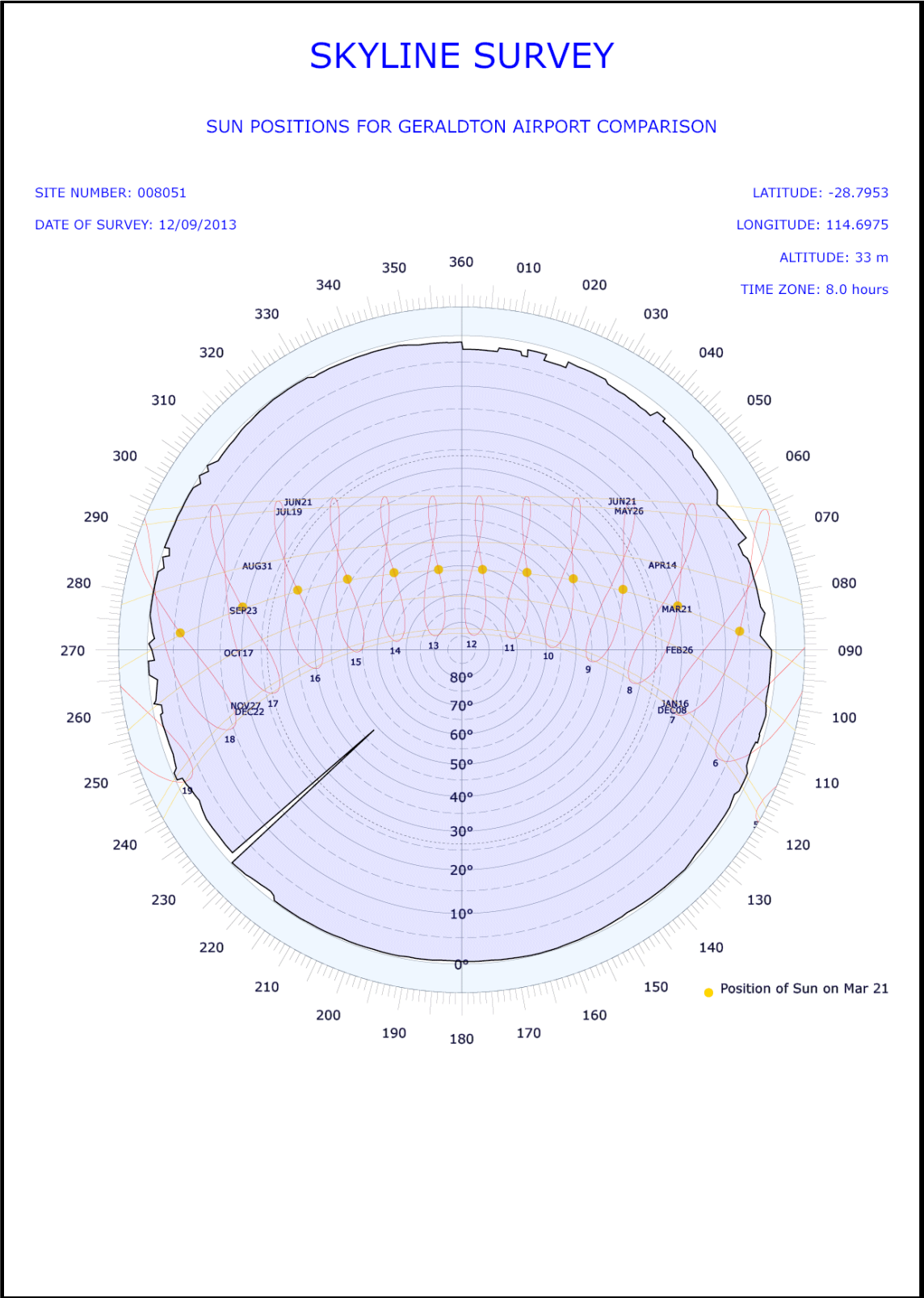
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Skyline Diagram  
12/09/2013(most recent)



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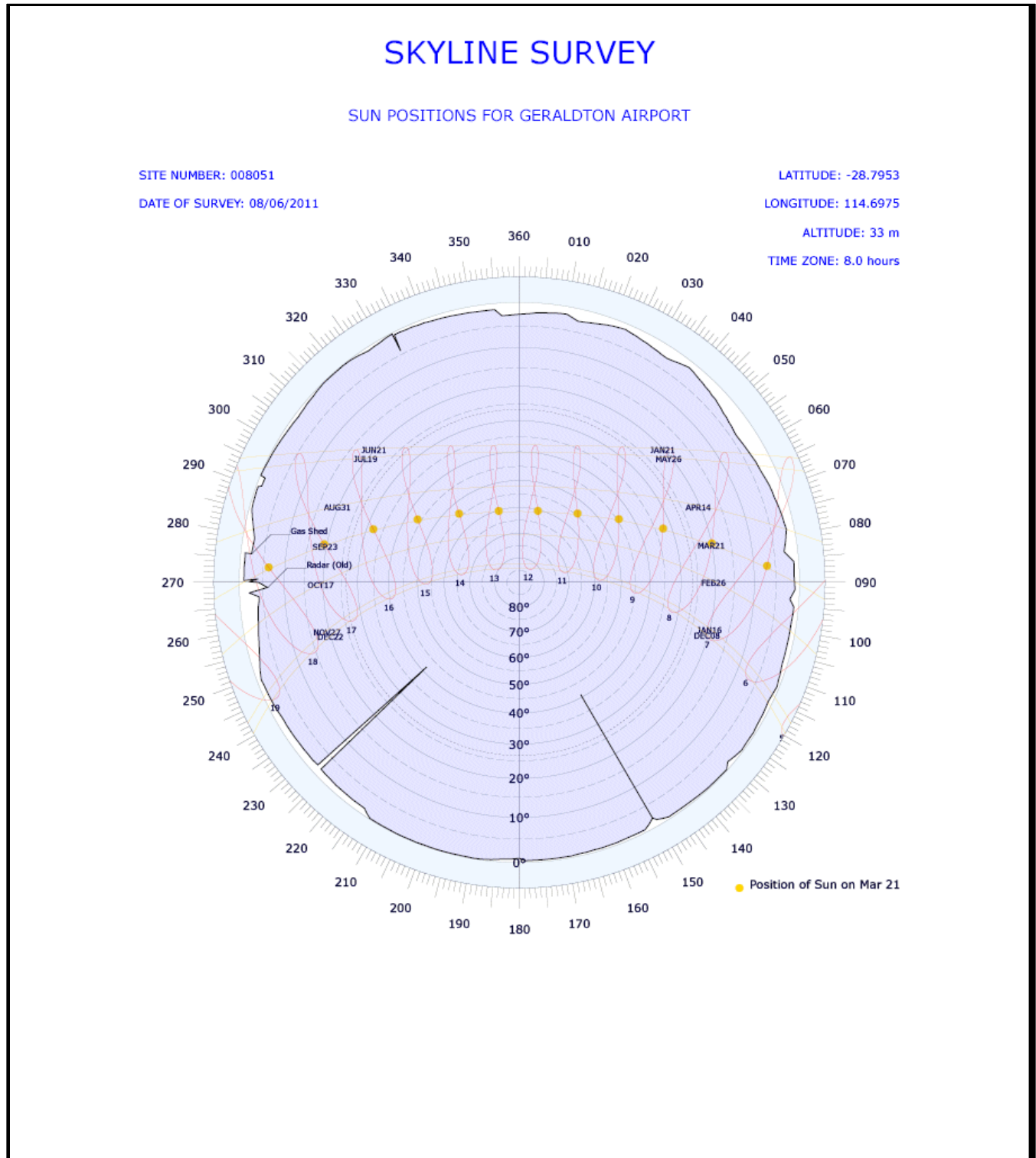
## Extended Climatological Station Metadata

All History

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### Skyline Diagram

08/06/2011



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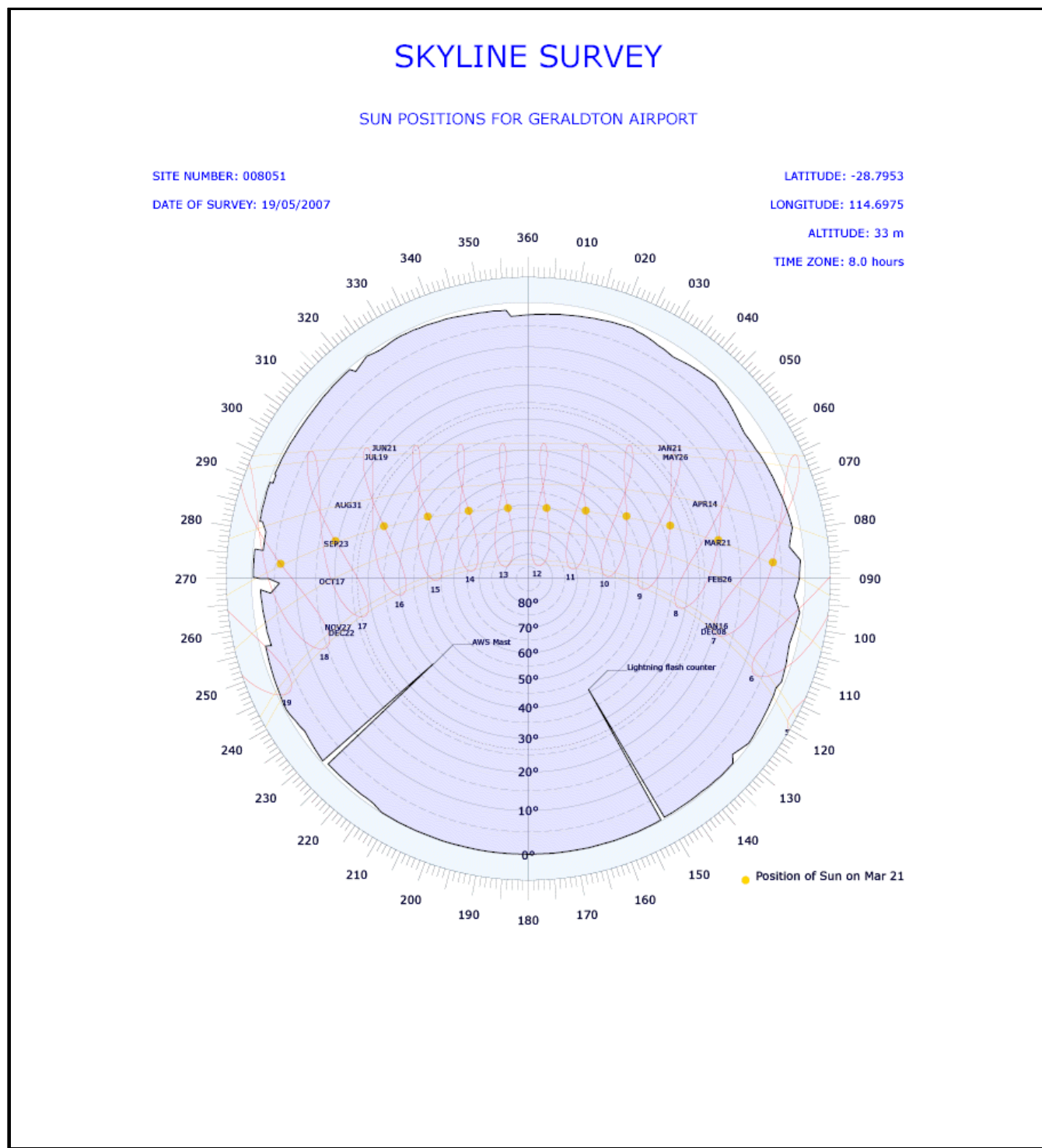
## Extended Climatological Station Metadata

All History

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### Skyline Diagram

19/05/2007



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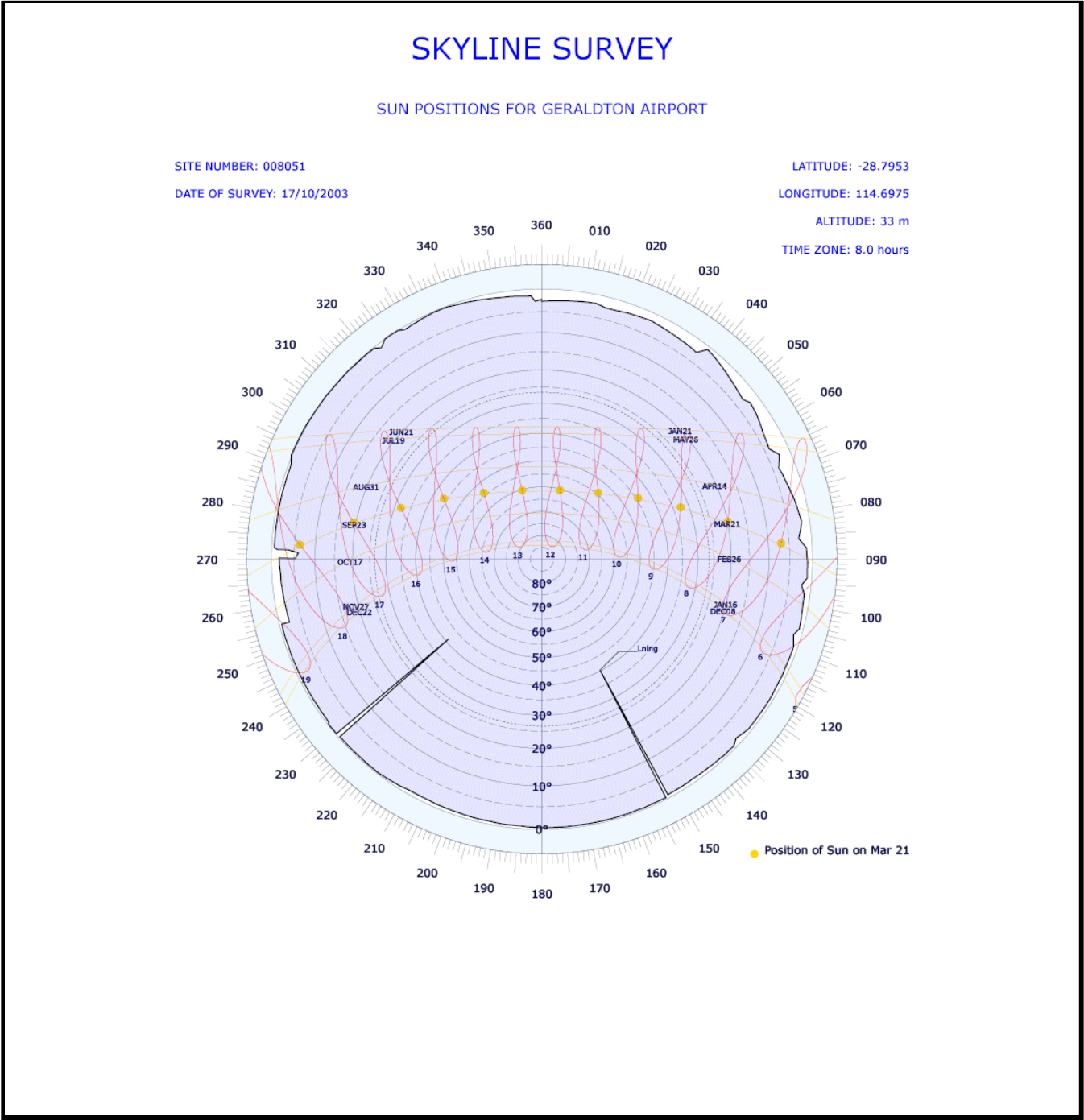
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Skyline Diagram  
13/10/2003



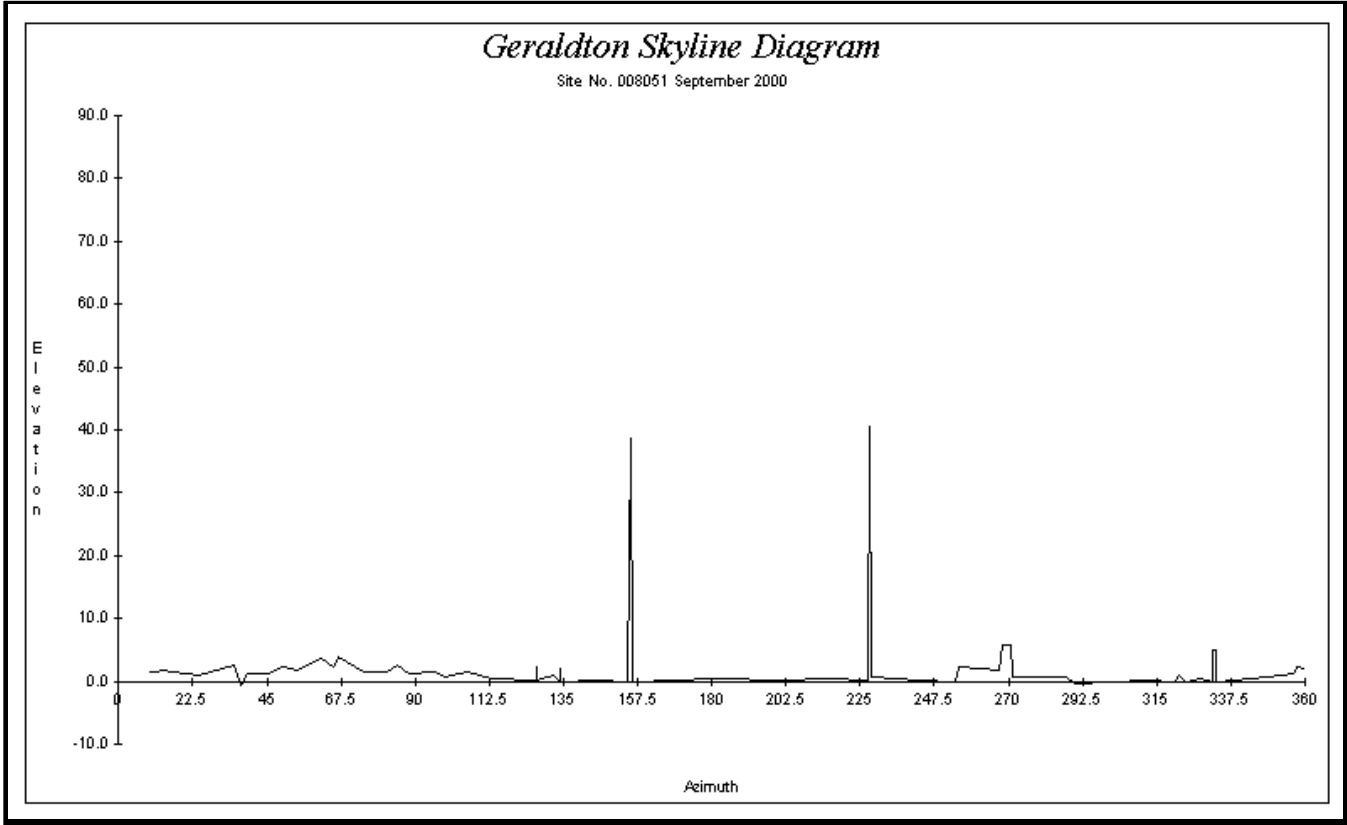
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Skyline Diagram  
25/09/2000



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Station Observation Program Summary (Surface Observations) from 01/08/1941 to 20/11/2002

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	Y	Y

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

Station Observation Program Summary (Surface Observations) from 20/11/2002 to 20/07/2011

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 20/07/2011 to 20/06/2014

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	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	-	-	-

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

Upper Air Routine 01/07/1999 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	-	-	-	-	-	-	-

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Wind	00:00	Y	Y	Y	Y	Y	Y	Y
Wind	06:00	Y	Y	Y	Y	Y	Y	Y
Wind	12:00	Y	Y	Y	Y	Y	Y	Y
Wind	18:00	Y	Y	Y	Y	Y	Y	Y



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### Upper Air Routine 05/01/2005 to 07/12/2005

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	Y	Y	Y	Y	Y	Y	Y
Wind	18:00	Y	Y	Y	Y	Y	Y	Y

### Upper Air Routine 07/12/2005 to 20/07/2011

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 20/07/2011 to 21/07/2011

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

13/MAR/2008 INSTALL Ceilometer (Type Vaisala CT25K S/N - C04202) Surface Observations  
20/JUL/2011 REMOVE Ceilometer (Type Vaisala CT25K S/N - A02505) Surface Observations  
09/FEB/2010 REPLACE Ceilometer (Now Vaisala CT25K S/N - A02505) Surface Observations  
01/AUG/1941 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - NONE) Surface Observations  
10/APR/2008 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - NONE) Surface Observations

#### Humidity

14/JUL/2011 INSTALL Humidity Probe (Type Rotronics MP300-001 S/N - 1902000/13) Surface Observations  
20/JUN/2014 REMOVE Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 7843010) Surface Observations  
21/MAY/2012 REPLACE Humidity Probe (Now Rotronics MP101A-T4-W4W S/N - 7843010) Surface Observations

#### Pressure Trend

01/JAN/1966 INSTALL Barograph (Type Weekly S/N - CBM107) Surface Observations  
20/JUL/2011 REMOVE Barograph (Type Weekly S/N - CBM047) Surface Observations  
24/AUG/1998 REPLACE Barograph (Now Weekly S/N - CBM047) Surface Observations

#### Lightning

01/SEP/1980 INSTALL Lightning Flash Counter (Type CIGRE - Vertical Aerial S/N - M-G7) Surface Observations  
20/JUL/2011 REMOVE Lightning Flash Counter (Type CIGRE - Vertical Aerial S/N - M10) Surface Observations  
09/FEB/2010 REPLACE Lightning Flash Counter (Now CIGRE - Vertical Aerial S/N - M10) Surface Observations

#### Sea Surface Temperature (No Electronic History)

#### Magnetic Bearing (No Electronic History)

#### Wind Direction

19/FEB/1957 INSTALL Anemometer (Type Dines S/N - Unknown) Surface Observations  
24/JUN/1990 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - Unknown) Surface Observations  
24/JUN/1990 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - W/S:64123) Surface Observations  
24/JUN/1990 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure  
01/MAY/1967 INSTALL Wind Run Anemometer (Type Munro S/N - 3655) Surface Observations  
08/JUN/2005 INSTALL Wind Run Anemometer (Type Synchrotac Cups - Type 732 S/N - 84366) Surface Observations  
01/JUL/1990 REMOVE Anemometer (Type Dines S/N - Unknown) Surface Observations  
20/JUN/2014 REMOVE Anemometer (Type Synchrotac Cups - Type 732 S/N - NONE) Surface Observations  
20/JUN/2014 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - CART-84321) Surface Observations  
20/JUN/2014 REMOVE Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure  
08/JUN/2005 REMOVE Wind Run Anemometer (Type Munro S/N - 3655) Surface Observations  
20/JUL/2011 REMOVE Wind Run Anemometer (Type Synchrotac Cups - Type 732 S/N - 84366) Surface Observations  
04/AUG/2003 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - NONE) Surface Observations  
04/AUG/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - CART-84321) Surface Observations

#### Wet Bulb Temperature

24/JUN/1990 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations  
14/JUL/2011 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations  
01/JAN/1943 INSTALL Thermometer, Mercury, Wet Bulb (Type Unknown S/N - Unknown) Surface Observations  
20/JUL/2011 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 20100) Surface Observations  
08/JUN/2010 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 20100) Surface Observations  
01/OCT/2001 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 20100) Surface Observations  
23/NOV/2005 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 20100) Surface Observations

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## Extended Climatological Station Metadata

All History

<b>Station:</b>	GERALDTON AIRPORT COMPARISON		<b>Location:</b>	GERALDTON AIRPORT COMPARISON		<b>State:</b>	WA
<b>Bureau No.:</b>	008051	<b>WMO No.:</b>	95403	<b>Aviation ID:</b>	GEAP	<b>Opened:</b>	01 Jan 1941
<b>Latitude:</b>	-28.7953	<b>Longitude:</b>	114.6975	<b>Elevation:</b>	33 m	<b>Barometer Elev:</b>	35 m
<b>Current Status:</b>							Closed
<b>Metadata compiled:</b>							26 JUL 2025

## Station Equipment History (continued)

### Equipment Install/Remove(Continued)

13/OCT/2003 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 21776) Surface Observations  
03/OCT/1994 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - CBM5405) Surface Observations

### Solar Radiation (Long Wave)

26/AUG/1996 INSTALL Pyrgeometer (Type Epply PIR S/N - 29083F3) Radiation  
20/JUN/2006 REMOVE Pyrgeometer (Type Epply PIR S/N - 29083F3) Radiation

### Spectral Radiation

11/NOV/1998 INSTALL Photometer Head (Type SPO2 Mk1 S/N - 1005) Radiation  
20/JUN/2006 REMOVE Photometer Head (Type SPO2 Mk1 S/N - 1029) Radiation  
17/OCT/2003 REPLACE Photometer Head (Now SPO2 Mk1 S/N - 1001) Radiation  
01/DEC/2005 REPLACE Photometer Head (Now SPO2 Mk1 S/N - 1029) Radiation

### Maximum Temperature

01/SEP/1941 INSTALL Thermometer, Mercury, Max (Type Unknown S/N - Unknown) Surface Observations  
20/JUL/2011 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - 20892) Surface Observations  
03/OCT/1994 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 14771) Surface Observations  
11/JAN/2009 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 20892) Surface Observations  
13/OCT/2003 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - CBM3924) Surface Observations  
04/NOV/2002 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M6463) Surface Observations

### Soil Temperature 10cm

08/JUN/2005 INSTALL Temperature Probe - 10cm (Type Temp Control, Buried S/N - 0054) Surface Observations  
20/JUL/2011 REMOVE Temperature Probe - 10cm (Type Temp Control, Buried S/N - 0054) Surface Observations  
01/JAN/1986 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - 9604869) Surface Observations  
20/JUL/2011 REMOVE Thermometer, Soil, 10cm (Type Dobros S/N - 9604869) Surface Observations

### Soil Temperature 20cm

08/JUN/2005 INSTALL Temperature Probe - 20cm (Type Temp Control, Buried S/N - 0024) Surface Observations  
20/JUL/2011 REMOVE Temperature Probe - 20cm (Type Temp Control, Buried S/N - 0024) Surface Observations  
01/JAN/1986 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - 9604814) Surface Observations  
20/JUL/2011 REMOVE Thermometer, Soil, 20cm (Type Dobros S/N - 9984022) Surface Observations  
14/APR/2002 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 9984012) Surface Observations  
08/DEC/2003 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 9984022) Surface Observations

### Soil Temperature 50cm

08/JUN/2005 INSTALL Temperature Probe - 50cm (Type Temp Control S/N - 0051) Surface Observations  
20/JUL/2011 REMOVE Temperature Probe - 50cm (Type Temp Control S/N - 0051) Surface Observations  
01/JAN/1986 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - CBM414) Surface Observations  
20/JUL/2011 REMOVE Thermometer, Soil, 50cm (Type Dobros S/N - M0982) Surface Observations  
03/DEC/2003 REPLACE Thermometer, Soil, 50cm (Now Amarol S/N - 9990151) Surface Observations  
06/OCT/2004 REPLACE Thermometer, Soil, 50cm (Now Dobros S/N - M0982) Surface Observations

### Snow Height (No Electronic History)

### Soil Temperature 100cm

08/JUN/2005 INSTALL Temperature Probe - 100cm (Type Temp Control S/N - 0023) Surface Observations  
20/JUL/2011 REMOVE Temperature Probe - 100cm (Type Temp Control S/N - 0023) Surface Observations  
01/JAN/1986 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - CBM353) Surface Observations  
20/JUL/2011 REMOVE Thermometer, Soil, 100cm (Type Amarol S/N - 9690806) Surface Observations  
26/JAN/2007 REPLACE Thermometer, Soil, 100cm (Now Amarol S/N - 9690806) Surface Observations

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## Extended Climatological Station Metadata

All History

<b>Station:</b>	GERALDTON AIRPORT COMPARISON		<b>Location:</b>	GERALDTON AIRPORT COMPARISON		<b>State:</b>	WA
<b>Bureau No.:</b>	008051	<b>WMO No.:</b>	95403	<b>Aviation ID:</b>	GEAP	<b>Opened:</b>	01 Jan 1941
<b>Latitude:</b>	-28.7953	<b>Longitude:</b>	114.6975	<b>Elevation:</b>	33 m	<b>Barometer Elev:</b>	35 m
<b>Current Status:</b>							Closed
<b>Metadata compiled:</b>							26 JUL 2025

## Station Equipment History (continued)

### Equipment Install/Remove(Continued)

#### Sunshine Hours (No Electronic History)

##### Wind Run

01/MAY/1967 INSTALL Wind Run Anemometer (Type Munro S/N - 3655) Surface Observations  
08/JUN/2005 INSTALL Wind Run Anemometer (Type Synchrotac Cups - Type 732 S/N - 84366) Surface Observations  
08/JUN/2005 REMOVE Wind Run Anemometer (Type Munro S/N - 3655) Surface Observations  
20/JUL/2011 REMOVE Wind Run Anemometer (Type Synchrotac Cups - Type 732 S/N - 84366) Surface Observations

##### Minimum Temperature

01/SEP/1941 INSTALL Thermometer, Alcohol, Min (Type Unknown S/N - Unknown) Surface Observations  
20/JUL/2011 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - 20753) Surface Observations  
03/OCT/1994 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 1442) Surface Observations  
20/JUL/2004 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 20693) Surface Observations  
08/JUN/2010 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 20753) Surface Observations  
01/OCT/2001 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 20784) Surface Observations

##### Terrestrial Minimum Temperature

08/JUN/2005 INSTALL Temperature Probe - Grass (Type Temp Control, Surface S/N - 012) Surface Observations  
20/JUL/2011 REMOVE Temperature Probe - Grass (Type Temp Control, Surface S/N - 012) Surface Observations  
01/JUN/1957 INSTALL Thermometer, Terrestrial, Min (Type Dobros S/N - M2688) Surface Observations  
20/JUL/2011 REMOVE Thermometer, Terrestrial, Min (Type Unknown S/N - 25896) Surface Observations  
21/JUL/2008 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19622) Surface Observations  
21/FEB/2003 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19622) Surface Observations  
13/OCT/2003 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19622) Surface Observations  
04/FEB/2002 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19622) Surface Observations  
05/JAN/2003 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 20693) Surface Observations  
23/NOV/2005 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 20784) Surface Observations  
05/OCT/2006 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 43103) Surface Observations  
01/OCT/2001 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 5209) Surface Observations  
21/JAN/2010 REPLACE Thermometer, Terrestrial, Min (Now Unknown S/N - 25896) Surface Observations

##### Visibility

13/MAR/2008 INSTALL Visibility Meter (Type Vaisala FD12 S/N - C02202) Surface Observations  
20/JUL/2011 REMOVE Visibility Meter (Type Vaisala FD12 S/N - C02202) Surface Observations

##### Soil Temperature 5cm

08/JUN/2005 INSTALL Temperature Probe - 5cm (Type Temp Control, Buried S/N - 0026) Surface Observations  
20/JUL/2011 REMOVE Temperature Probe - 5cm (Type Temp Control, Buried S/N - 0026) Surface Observations

##### Sub Surface Temperature (No Electronic History)

##### Electrical Conductivity (No Electronic History)

##### Oxygen Content (No Electronic History)

##### RF Reflectivity

08/AUG/1983 INSTALL Radar (Type WF100-5C S/N - Unknown) Upper Air  
08/AUG/1983 INSTALL Radar (Type WF100-5C S/N - Unknown) WeatherWatch  
01/NOV/1965 INSTALL Radar (Type WF2 S/N - Unknown) Upper Air  
01/JUL/1983 INSTALL Radar Tower (Type Lattice WF100 - 7.0 m S/N - NONE) Infrastructure  
20/JUL/2011 REMOVE Radar (Type WF100-5C S/N - Unknown) Upper Air  
20/JUL/2011 REMOVE Radar (Type WF100-5C S/N - Unknown) WeatherWatch

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Extended Climatological Station Metadata  
All History

<b>Station:</b>	GERALDTON AIRPORT COMPARISON		<b>Location:</b>	GERALDTON AIRPORT COMPARISON		<b>State:</b>	WA
<b>Bureau No.:</b>	008051	<b>WMO No.:</b>	95403	<b>Aviation ID:</b>	GEAP	<b>Opened:</b>	01 Jan 1941
<b>Latitude:</b>	-28.7953	<b>Longitude:</b>	114.6975	<b>Elevation:</b>	33 m	<b>Barometer Elev:</b>	35 m
<b>Current Status:</b>							Closed
<b>Metadata compiled:</b>							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

01/JUL/1983 REMOVE Radar (Type WF2 S/N - Unknown) Upper Air  
20/JUL/2011 REMOVE Radar Tower (Type Lattice WF100 - 7.0 m S/N - NONE) Infrastructure

Total Column Ozone Amount (No Electronic History)

Pressure

01/JAN/1946 INSTALL Barometer (Type Kew pattern mercury S/N - 1919) Surface Observations  
01/JUL/1990 INSTALL Barometer (Type Vaisala DPA25 S/N - Unknown) Surface Observations  
01/JUL/1990 REMOVE Barometer (Type Kew pattern mercury S/N - 1919) Surface Observations  
20/JUL/2011 REMOVE Barometer (Type Vaisala PA11A S/N - 1110008) Surface Observations  
01/MAR/1993 REPLACE Barometer (Now Vaisala PA11 S/N - 433544) Surface Observations  
30/AUG/1997 REPLACE Barometer (Now Vaisala PA11A S/N - 1110008) Surface Observations

Evaporation

01/MAY/1967 INSTALL Evaporation Pan (Type Class A S/N - Unknown) Surface Observations  
20/JUL/2011 REMOVE Evaporation Pan (Type Class A S/N - NONE) Surface Observations  
25/JAN/2006 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations  
23/DEC/2008 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations  
13/AUG/2002 REPLACE Evaporation Pan (Now Class A S/N - Unknown) Surface Observations  
31/DEC/2003 REPLACE Evaporation Pan (Now Class A S/N - Unknown) Surface Observations

Rainfall

01/APR/1953 INSTALL Pluviograph (Type Unknown S/N - Unknown) Rainfall Intensity  
01/OCT/1996 REMOVE Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity  
28/AUG/1953 REPLACE Pluviograph (Now Dines syphoning S/N - Unknown) Rainfall Intensity  
01/AUG/1941 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations  
24/JUN/1990 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Surface Observations  
20/JUL/2011 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations  
20/JUL/2011 REMOVE Raingauge (Type Rimco 8020 TBRG S/N - Unknown) Rainfall Intensity  
20/JUN/2014 REMOVE Raingauge (Type Rimco 8020 TBRG S/N - Unknown) Surface Observations  
30/JUL/2002 REPLACE Raingauge (Now 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations  
09/OCT/1996 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-179) Rainfall Intensity  
09/OCT/1996 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-179) Surface Observations  
04/JUN/1999 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-255) Rainfall Intensity  
04/JUN/1999 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-255) Surface Observations  
30/SEP/1999 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 99/191) Rainfall Intensity  
30/SEP/1999 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 99/191) Surface Observations  
18/NOV/2002 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - Unknown) Rainfall Intensity  
18/NOV/2002 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - Unknown) Surface Observations  
18/NOV/2002 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96-179) Rainfall Intensity  
18/NOV/2002 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96-255) Rainfall Intensity  
18/NOV/2002 SHARE Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Rainfall Intensity  
18/NOV/2002 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 99/191) Rainfall Intensity  
18/NOV/2002 SHARE Raingauge (Type Rimco 8020 TBRG S/N - Unknown) Rainfall Intensity

River Height (No Electronic History)

Solar Radiation

26/AUG/1996 INSTALL Global Pyranometer Mount (Type Carter Scott Mk1 S/N - Unknown) Radiation

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All History

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<b>Current Status:</b>							Closed
<b>Metadata compiled:</b>							26 JUL 2025

## Station Equipment History (continued)

### Equipment Install/Remove(Continued)

26/AUG/1996 INSTALL Pyranometer (Type Kipp&Zonen CM11 S/N - 924015) Radiation  
 26/AUG/1996 INSTALL Pyranometer (Type Kipp&Zonen CM11 S/N - 924017) Radiation  
 20/JUN/2006 REMOVE Global Pyranometer Mount (Type Carter Scott Mk1 S/N - Unknown) Radiation  
 20/JUN/2006 REMOVE Pyranometer (Type Kipp&Zonen CM11 S/N - 924024) Radiation  
 20/JUN/2006 REMOVE Pyranometer (Type Kipp&Zonen CM11 S/N - 955968) Radiation  
 15/JAN/1997 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924015) Radiation  
 12/NOV/1998 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924015) Radiation  
 15/OCT/1999 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924015) Radiation  
 15/JAN/1997 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924017) Radiation  
 12/NOV/1998 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924017) Radiation  
 15/OCT/1999 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924017) Radiation  
 17/OCT/2003 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924024) Radiation  
 01/DEC/2005 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924024) Radiation  
 17/OCT/2003 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 955968) Radiation  
 01/DEC/2005 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 955968) Radiation

### Solar Radiation (Direct)

26/AUG/1996 INSTALL Pyrheliometer (Type Kipp&Zonen CH1 S/N - 940049) Radiation  
 20/JUN/2006 REMOVE Pyrheliometer (Type Carter Scott DN5 S/N - 5019) Radiation  
 17/OCT/2003 REPLACE Pyrheliometer (Now Carter Scott DN5 S/N - 5019) Radiation

### Turbidity (No Electronic History)

### Sea Water Level (No Electronic History)

### Sea Water Temperature (No Electronic History)

### Wind Speed

19/FEB/1957 INSTALL Anemometer (Type Dines S/N - Unknown) Surface Observations  
 24/JUN/1990 INSTALL Anemometer (Type Synchronac Cups - Type 732 S/N - Unknown) Surface Observations  
 24/JUN/1990 INSTALL Anemometer (Type Synchronac Vane - Type 706 S/N - W/S:64123) Surface Observations  
 24/JUN/1990 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure  
 01/MAY/1967 INSTALL Wind Run Anemometer (Type Munro S/N - 3655) Surface Observations  
 08/JUN/2005 INSTALL Wind Run Anemometer (Type Synchronac Cups - Type 732 S/N - 84366) Surface Observations  
 01/JUL/1990 REMOVE Anemometer (Type Dines S/N - Unknown) Surface Observations  
 20/JUN/2014 REMOVE Anemometer (Type Synchronac Cups - Type 732 S/N - NONE) Surface Observations  
 20/JUN/2014 REMOVE Anemometer (Type Synchronac Vane - Type 706 S/N - CART-84321) Surface Observations  
 20/JUN/2014 REMOVE Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure  
 08/JUN/2005 REMOVE Wind Run Anemometer (Type Munro S/N - 3655) Surface Observations  
 20/JUL/2011 REMOVE Wind Run Anemometer (Type Synchronac Cups - Type 732 S/N - 84366) Surface Observations  
 04/AUG/2003 REPLACE Anemometer (Now Synchronac Cups - Type 732 S/N - NONE) Surface Observations  
 04/AUG/2003 REPLACE Anemometer (Now Synchronac Vane - Type 706 S/N - CART-84321) Surface Observations

### Air Temperature

14/JUL/2011 INSTALL Humidity Probe (Type Rotronics MP300-001 S/N - 1902000/13) Surface Observations  
 20/JUN/2014 REMOVE Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 7843010) Surface Observations  
 21/MAY/2012 REPLACE Humidity Probe (Now Rotronics MP101A-T4-W4W S/N - 7843010) Surface Observations  
 24/JUN/1990 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - NONE) Surface Observations  
 20/JUN/2014 REMOVE Temperature Probe - Dry Bulb (Type Rosemount S/N - NONE) Surface Observations

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## Extended Climatological Station Metadata

### All History

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<b>Latitude:</b>	-28.7953	<b>Longitude:</b>	114.6975	<b>Elevation:</b>	33 m	<b>Barometer Elev:</b>	35 m	<b>Metadata compiled:</b>	26 JUL 2025

## Station Equipment History (continued)

### Equipment Install/Remove(Continued)

01/SEP/1941 INSTALL Thermometer, Mercury, Dry Bulb (Type Unknown S/N - Unknown) Surface Observations  
20/JUL/2011 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 23037) Surface Observations  
01/OCT/2001 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 20123) Surface Observations  
10/MAR/2008 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 21734) Surface Observations  
08/JUN/2010 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 23037) Surface Observations  
03/OCT/1994 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 5487) Surface Observations

### Surface Inclination (No Electronic History)

The following table summarises information on field performance checks available electronically over the period indicated. The number of instances an instrument was found to fail field performance checks should only be used as a guide. A system of data quality flags is implemented by the Bureau of Meteorology to indicate the data quality of an observation as determined by a multi-stage quality control process.

Available Date Range	Element	Fail Field Performance Check
21/OCT/2008 - 14/JUL/2011	Cloud Height	0
14/JUL/2011 - 20/JUN/2014	Humidity	1
25/SEP/2000 - 08/JUN/2011	Pressure Trend	0
06/MAY/2002 - 30/SEP/2009	Lightning	2
07/JUN/1996 - 20/JUN/2014	Wind Direction	2
07/JUN/1996 - 08/JUN/2011	Wet Bulb Temperature	0
26/AUG/1996 - 26/AUG/1996	Solar Radiation (Long Wave)	0
25/SEP/2000 - 08/JUN/2011	Maximum Temperature	0
25/SEP/2000 - 08/JUN/2011	Soil Temperature 10cm	0
25/SEP/2000 - 08/JUN/2011	Soil Temperature 20cm	0
25/SEP/2000 - 08/JUN/2011	Soil Temperature 50cm	0
25/SEP/2000 - 08/JUN/2011	Soil Temperature 100cm	0
25/SEP/2000 - 23/NOV/2005	Wind Run	0
25/SEP/2000 - 08/JUN/2011	Minimum Temperature	0
25/SEP/2000 - 08/JUN/2011	Terrestrial Minimum Temperature	0
21/OCT/2008 - 14/JUL/2011	Visibility	2
05/NOV/2001 - 17/NOV/2010	RF Reflectivity	0
07/JUN/1996 - 14/JUL/2011	Pressure	3
25/SEP/2000 - 08/JUN/2011	Evaporation	0
08/OCT/1996 - 20/JUN/2014	Rainfall	9
26/AUG/1996 - 15/OCT/1999	Solar Radiation	0
26/AUG/1996 - 26/AUG/1996	Solar Radiation (Direct)	0
07/JUN/1996 - 20/JUN/2014	Wind Speed	2
07/JUN/1996 - 20/JUN/2014	Air Temperature	1

### Station Detail Changes

01/JUL/2011 CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT) ENDED 20-06-2014  
26/JUN/2002 CLASSIFICATION CLIMAT Stations (CLC) ENDED 20-07-2011

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Extended Climatological Station Metadata  
All History

<b>Station:</b>	GERALDTON AIRPORT COMPARISON		<b>Location:</b>	GERALDTON AIRPORT COMPARISON		<b>State:</b>	WA
<b>Bureau No.:</b>	008051	<b>WMO No.:</b>	95403	<b>Aviation ID:</b>	GEAP	<b>Opened:</b>	01 Jan 1941
<b>Latitude:</b>	-28.7953	<b>Longitude:</b>	114.6975	<b>Elevation:</b>	33 m	<b>Barometer Elev:</b>	35 m
<b>Current Status:</b>							Closed
<b>Metadata compiled:</b>							26 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

26/JUN/2002 CLASSIFICATION CLIMAT TEMP Stations (CLT) ENDED 20-07-2011  
09/MAY/2006 CLASSIFICATION Category B (TAF B) ENDED 20-07-2011  
10/JAN/2011 CLASSIFICATION Critical (ASOSCRIT) ENDED 20-07-2011  
24/JUN/1990 CLASSIFICATION Fielden (FFD) ENDED 20-07-2011  
01/MAY/1997 CLASSIFICATION GCOS Surface Network (GSN) ENDED 20-07-2011  
01/JUL/2018 CLASSIFICATION HQ EVAPORATION (HQEVAP)  
01/JUL/1998 CLASSIFICATION Information and Observations (MIO) ENDED 20-07-2011  
01/MAY/1989 CLASSIFICATION National Benchmark Network for Agrometeorology (NBNA) ENDED 20-07-2011  
01/JUL/2017 CLASSIFICATION Observing Operations Hub - Perth (OOH-P)  
01/JUL/1998 CLASSIFICATION Rawinsonde Stations (RS) ENDED 20-07-2011  
01/SEP/1992 CLASSIFICATION Reference Climate Stations (RCS) ENDED 30-06-2011  
14/FEB/1997 CLASSIFICATION Regional Basic Synoptic Network (RBSN) ENDED 20-07-2011  
21/JUL/2011 CLASSIFICATION Standard (ASOSSTD)  
08/JUN/2010 OBJECT Document/008051100609tt  
23/MAR/2011 OBJECT Document/BAROMETER COEFFICIENTS  
25/JAN/2011 OBJECT Document/New radar skyline, photos  
28/OCT/2005 OBJECT Document/RAPIC TX CAL DATA  
05/OCT/2005 OBJECT Document/RAPIC TX CAL DATA  
12/SEP/2013 OBJECT Document/SKYLINE DATA  
19/MAY/2007 OBJECT Document/SKYLINE DATA  
08/JUN/2011 OBJECT Document/SKYLINE DATA  
13/OCT/2003 OBJECT Document/SKYLINE DATA  
25/SEP/2000 OBJECT Document/SKYLINE DATA  
01/JAN/1941 STATION - (nondb seeding) Opened  
01/JAN/1941 STATION - (nondb seeding) aero\_ht Changed to 36.9  
01/JAN/1941 STATION - (nondb seeding) bar\_ht Changed to 35  
01/JAN/1941 STATION - (nondb seeding) bar\_ht\_deriv Changed to SURVEY  
01/JAN/1941 STATION - (nondb seeding) name Changed to GERALDTON AIRPORT  
01/JAN/1941 STATION - (nondb seeding) stn\_ht Changed to 33  
01/JAN/1941 STATION - (nondb seeding) stn\_ht\_deriv Changed to SURVEY  
01/JAN/1941 STATION - (nondb seeding) wmo\_num Changed to 94403  
20/JUN/2014 STATION Closed  
20/JUL/2011 STATION aviation\_id Changed to GEAP  
03/OCT/1994 STATION aviation\_id Changed to YGEL  
01/JAN/1941 STATION latitude Changed to -28.7953Seeded from NonDb  
01/JAN/1941 STATION latlon\_deriv Changed to GPS  
01/JAN/1941 STATION longitude Changed to 114.6975Seeded from NonDb  
03/OCT/1994 STATION lu\_0\_100m Changed to Open farmland, grassland or tundra  
03/OCT/1994 STATION lu\_100m\_1km Changed to Airport  
03/OCT/1994 STATION lu\_1km\_10km Changed to Open farmland, grassland or tundra  
20/JUL/2011 STATION name Changed to GERALDTON AIRPORT COMPARISON  
03/OCT/1994 STATION soil\_type Changed to red soil  
03/OCT/1994 STATION surface\_type Changed to mostly covered by grass

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Extended Climatological Station Metadata  
All History

<b>Station:</b> GERALDTON AIRPORT COMPARISON			<b>Location:</b> GERALDTON AIRPORT COMPARISON			<b>State:</b> WA	
<b>Bureau No.:</b> 008051	<b>WMO No.:</b> 95403	<b>Aviation ID:</b> GEAP	<b>Opened:</b> 01 Jan 1941		<b>Current Status:</b> Closed		
<b>Latitude:</b> -28.7953	<b>Longitude:</b> 114.6975	<b>Elevation:</b> 33 m	<b>Barometer Elev:</b> 35 m		<b>Metadata compiled:</b> 26 JUL 2025		

Station Equipment History (continued)

Station Detail Changes(Continued)

20/JUL/2011 STATION wmo\_num Changed to 95403

System Changes

- 20/JUL/2011 SYSTEM Flood Warning Ceased
- 05/DEC/2000 SYSTEM Flood Warning Commenced
- 01/AUG/1941 SYSTEM Infrastructure Commenced
- 20/JUN/2006 SYSTEM Radiation Ceased
- 26/AUG/1996 SYSTEM Radiation Commenced
- 20/JUL/2011 SYSTEM Rainfall Intensity Ceased
- 01/APR/1953 SYSTEM Rainfall Intensity Commenced
- 13/JUL/2011 SYSTEM Reference Standards Ceased
- 01/JAN/2011 SYSTEM Reference Standards Commenced
- 01/AUG/1941 SYSTEM Surface Observations Commenced
- 21/JUL/2011 SYSTEM Upper Air Ceased
- 01/NOV/1965 SYSTEM Upper Air Commenced
- 20/JUL/2011 SYSTEM WeatherWatch Ceased
- 01/JAN/1983 SYSTEM WeatherWatch Commenced

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## Notes on these metadata

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

### Reliability of the metadata

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

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

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

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

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

### Station Number

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

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

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## Notes on these metadata

### Network Classification

<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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