



Basic Climatological Station Metadata

Current status

Metadata compiled: 26 JUL 2025

Station: LEARMONTH AIRPORT

Bureau of Meteorology station number: 005007

Bureau of Meteorology district name: Fortescue

State: WA

World Meteorological Organization number: 94302

Identification: YPLM

Network Classification: CLIMAT Stations, CLIMAT TEMP Stations, GCOS
Surface Network, GCOS Upper Air Network, Regional
Basic Synoptic Network

Station purpose: Synoptic, Upper Air, Aeronautical

Automatic Weather Station: Almos



Current Station Location				
Latitude	Decimal	-22.2406	Hour Min Sec	22°14'26"S
Longitude	Decimal	114.0967	Hour Min Sec	114°5'48"E
Station Height	5 m	Barometer Height	5.5 m	
Method of station geographic positioning			GPS	

Year opened: 1945

Status: Open

Station summary

No summary for this site has been written as yet.

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

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Basic Climatological Station Metadata
Current status

Station: LEARMONTH AIRPORT		Location: LEARMONTH AIRPORT		State: WA	
Bureau No.: 005007	WMO No.: 94302	Aviation ID: YPLM	Opened: 01 Jan 1945	Current Status: Still open	
Latitude: -22.2406	Longitude: 114.0967	Elevation: 5 m	Barometer Elev: 5.5 m	Metadata compiled: 26 JUL 2025	

Observation summary

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



DAILY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
EVAPORATION	APR 1975	OCT 2017	91.5	1309	0
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	APR 1975	JUN 2011	96.6	444	0
GROUND MINIMUM TEMPERATURE	MAR 1975	APR 2016	90.9	1361	0
MAXIMUM AIR TEMPERATURE	MAR 1975	JUN 2025	99.4	92	0
MAXIMUM WIND GUST SPEED	OCT 1978	JUN 2025	98.2	299	0
WIND RUN ABOVE 10 FEET	SEP 1994	JUN 2025	97.5	275	0
WIND RUN BELOW 10 FEET	MAY 1975	OCT 2017	91.4	1332	0
RAINFALL	APR 1945	JUL 2025	86	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	FEB 1975	JUN 2025	99.2	10.4	33	0
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	0 0 0 0
DEW POINT	FEB 1975	JUN 2025	99.2	10.4	36	0
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	0 0 0 0
MEAN SEA LEVEL PRESSURE	FEB 1975	JUN 2025	99.1	10.4	41	0
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	0 0 0 0
PRECIPITATION SINCE LAST OBS	FEB 1975	AUG 1999	61.4	5.2	3176	1
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	1 0 0 0
SEA STATE	MAY 2001	MAY 2001	3.2	1.0	30	0
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	0 0 0 0
SOIL TEMPERATURE - 10cm	JUL 1988	APR 2016	51.1	4.8	950	125
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	125 0 0 0
TOTAL CLOUD AMOUNT	FEB 1975	JUN 2025	84.1	6.1	2287	0
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	0 0 0 0
WIND SPEED	FEB 1975	JUN 2025	99.4	10.4	43	0
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	0 0 0 0
UPPER AIR TEMPERATURE	JUL 1988	JUN 2025	87.1	1.9	917	3
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	3 0 0 0
UPPER AIR WIND SPEED	MAR 1975	JUN 2025	88.3	2.8	727	15
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	15 0 0 0

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RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	MAR 1975	MAY 2017	87.7	1184	23

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	OCT 2002	JUL 2025	99.4	1430.9	N/A	0

HALF-HOURLY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	DEC 1993	JUL 2025	100.5	48.2	N/A	3

UPPER-AIR EDT DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
Wind only flights	May 1993	Sep 2017	N/A	1.0	854	262
Wind, temperature and pressure flights	May 1991	Sep 2017	N/A	1.8	527	1

Holdings calculated up to 01 Jul 2025

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

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

Unlisted element

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

Listed element to use

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

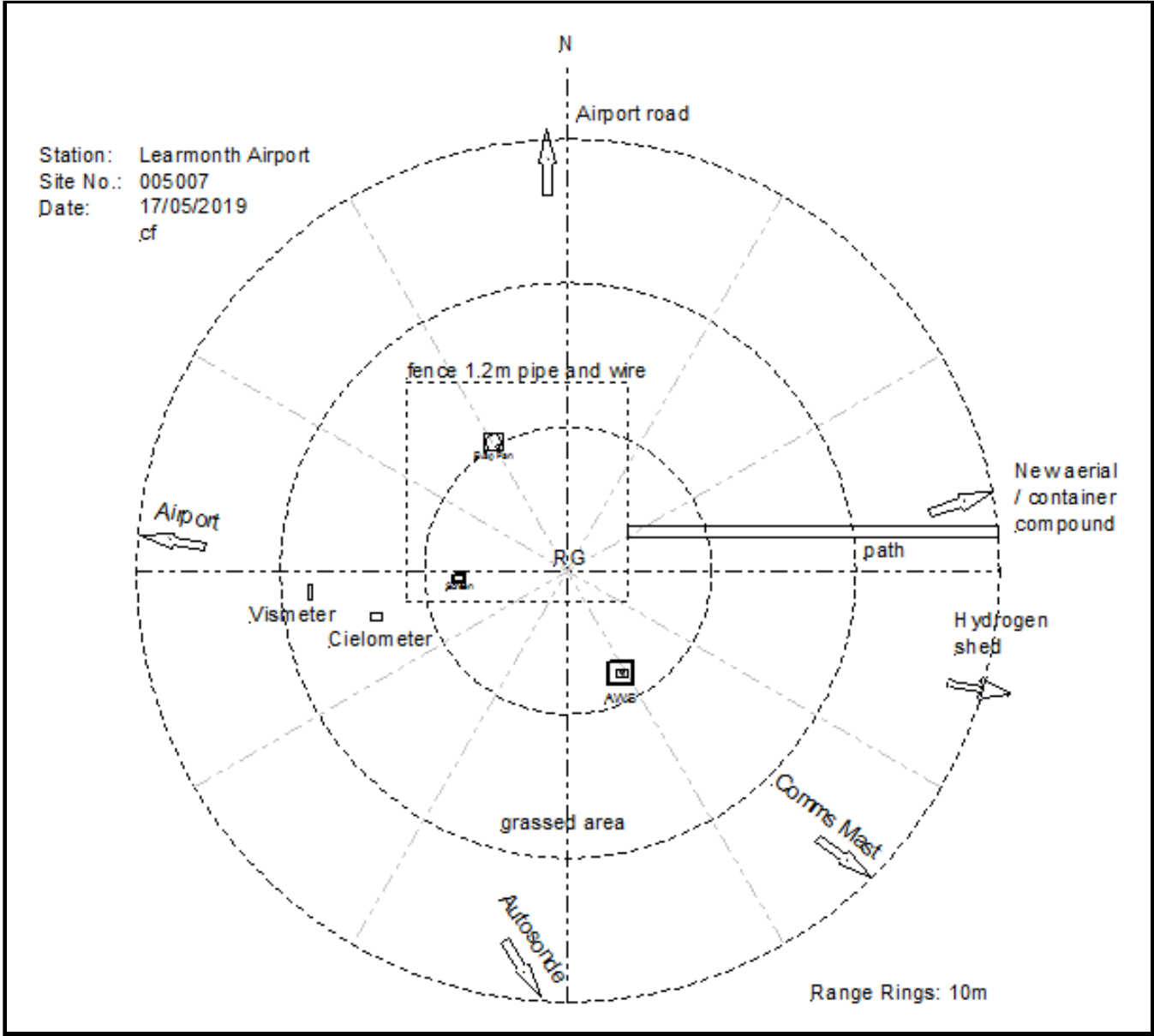
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Extended Climatological Station Metadata
All History

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Instrument Location and Surrounding Features
17/05/2019(most recent)



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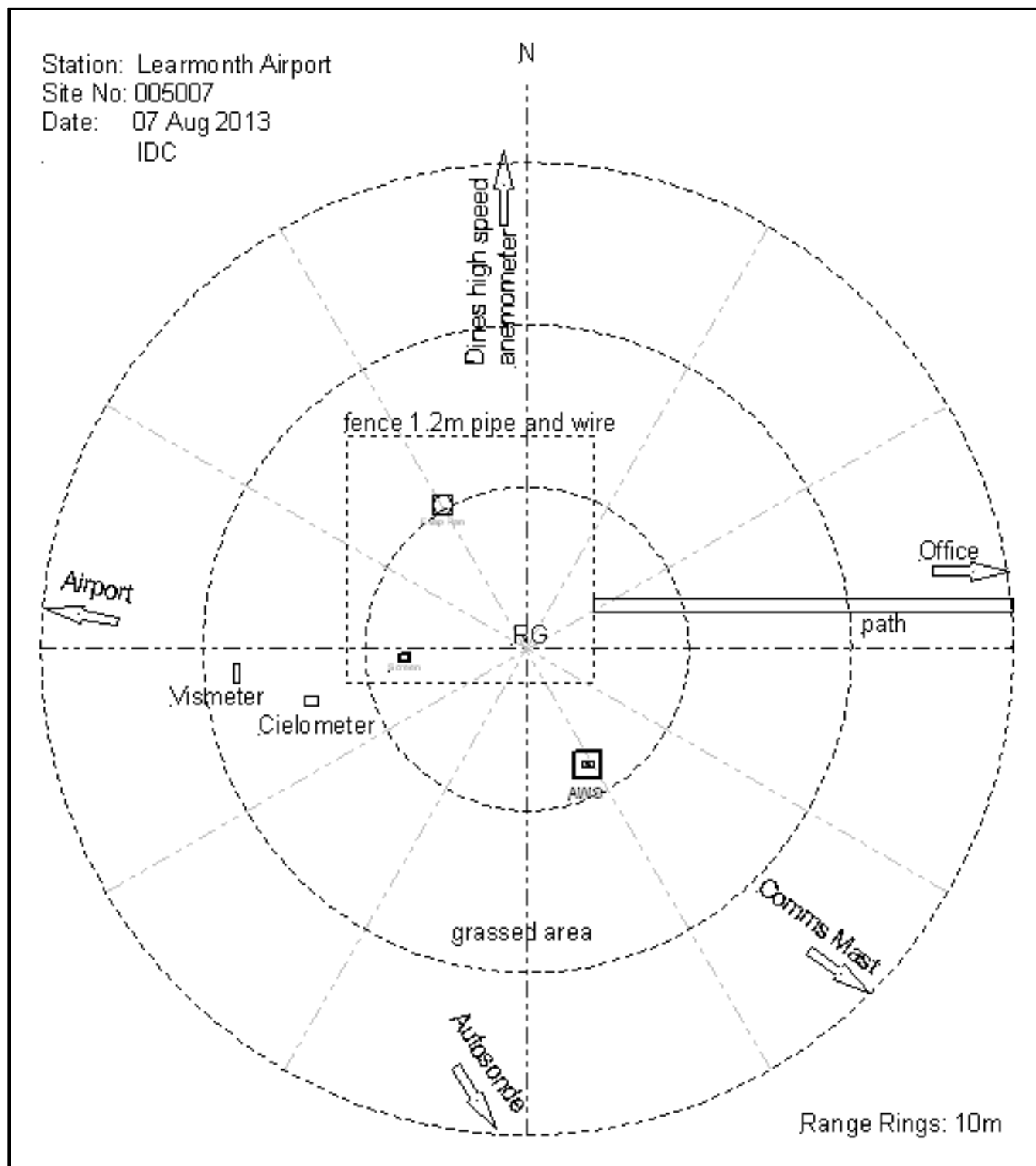
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

07/08/2013



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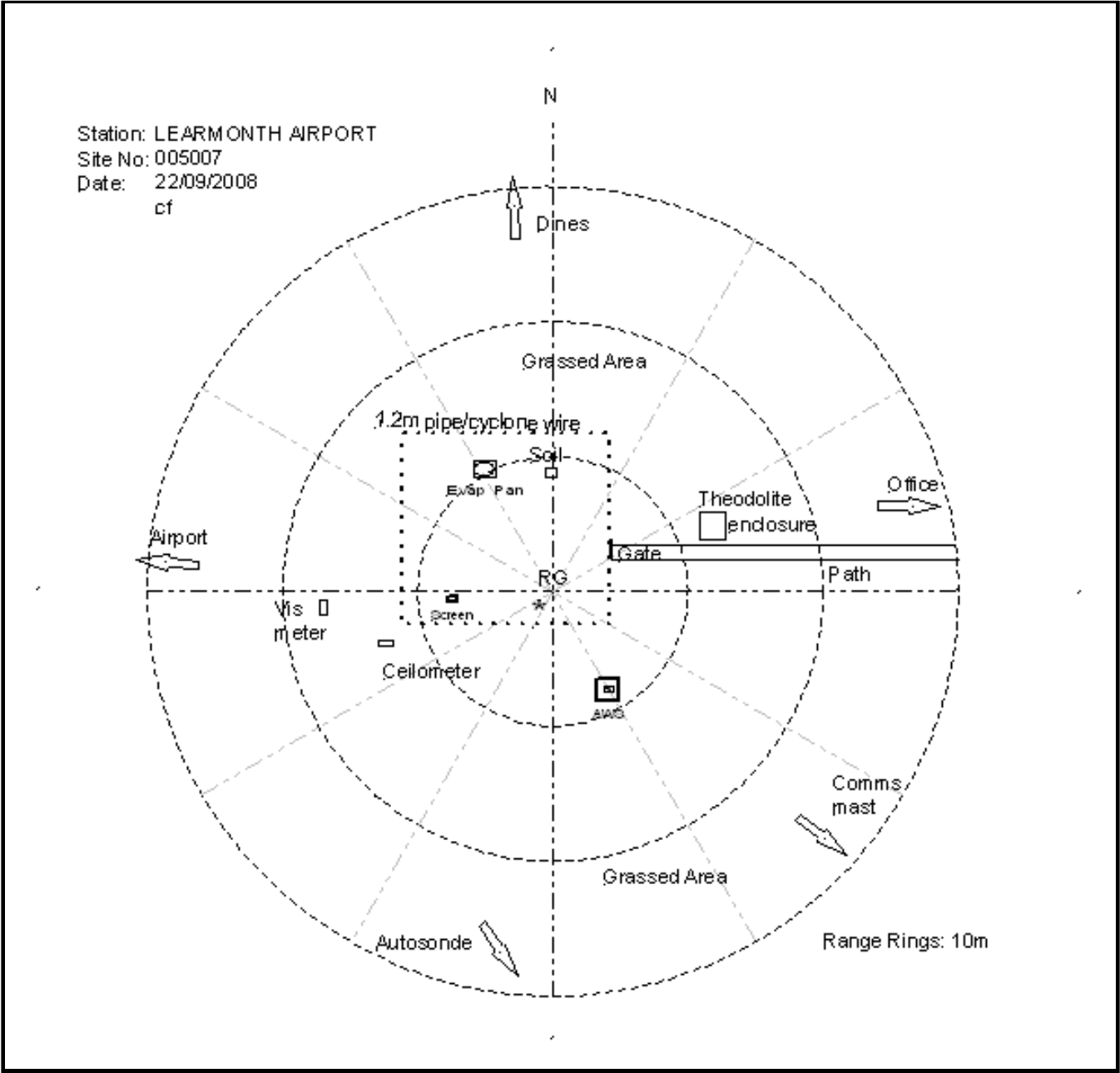
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Instrument Location and Surrounding Features
22/09/2008



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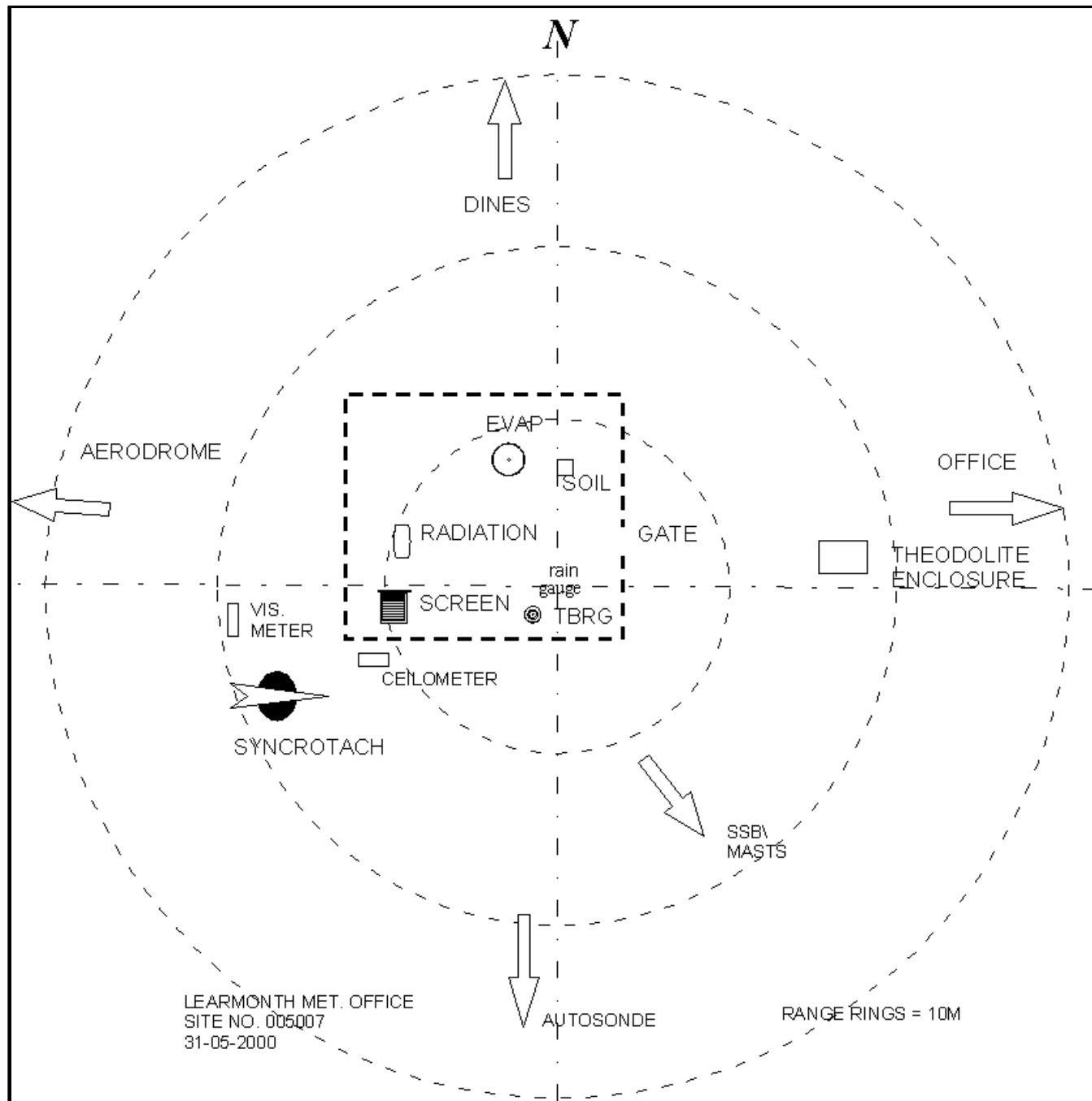
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Instrument Location and Surrounding Features

31/05/2000



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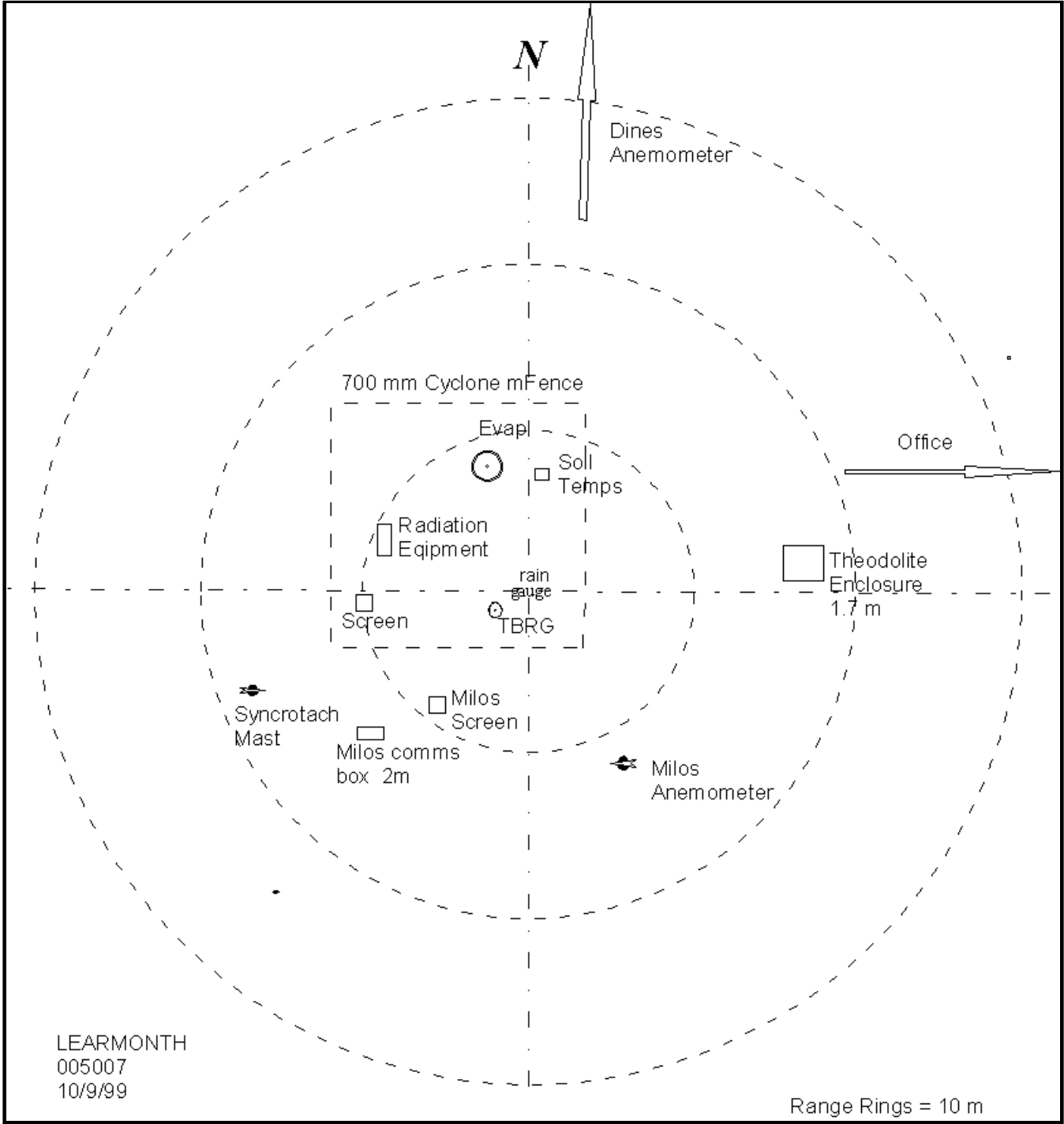
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Instrument Location and Surrounding Features
10/09/1999



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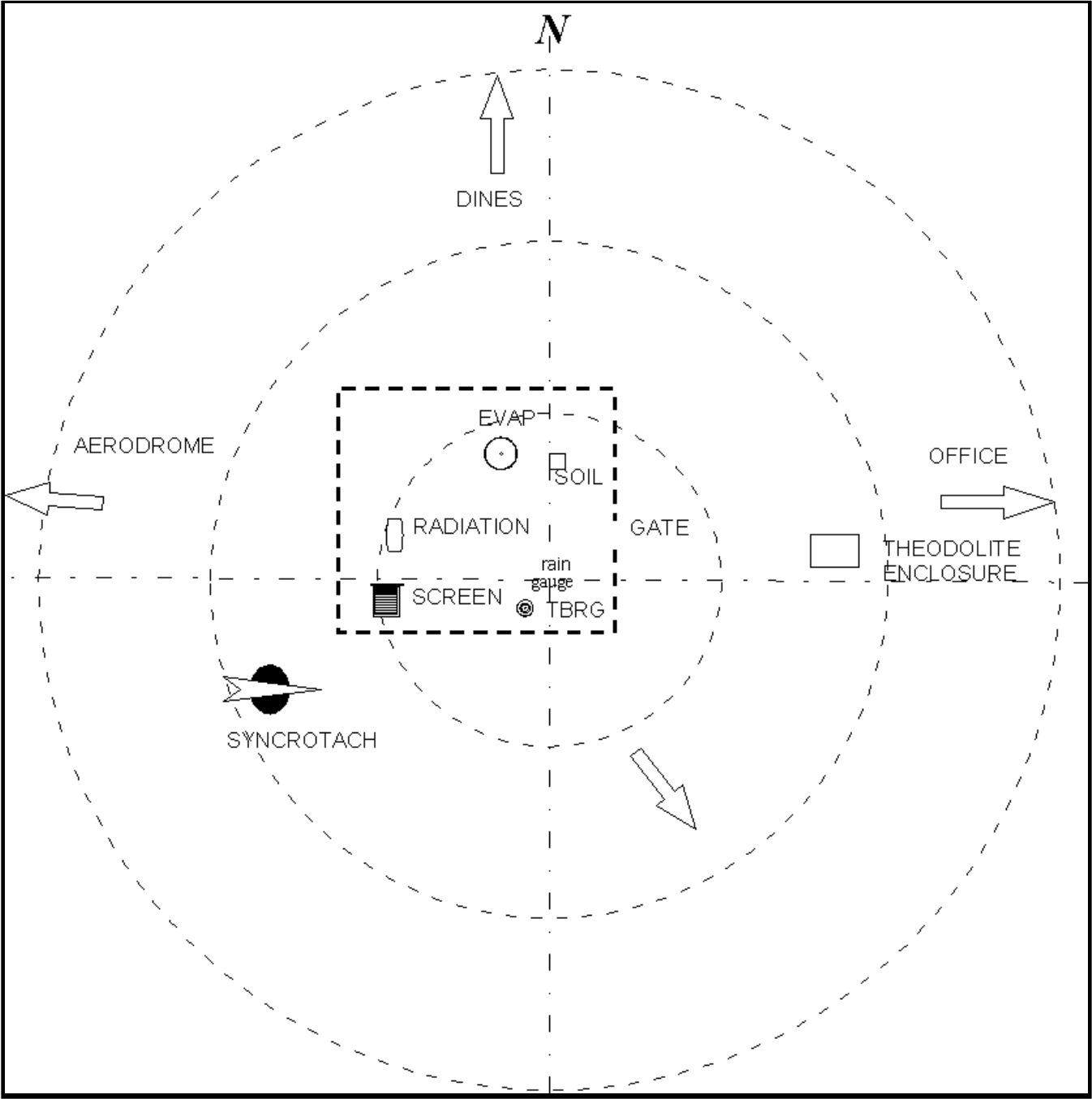
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Instrument Location and Surrounding Features
17/08/1997



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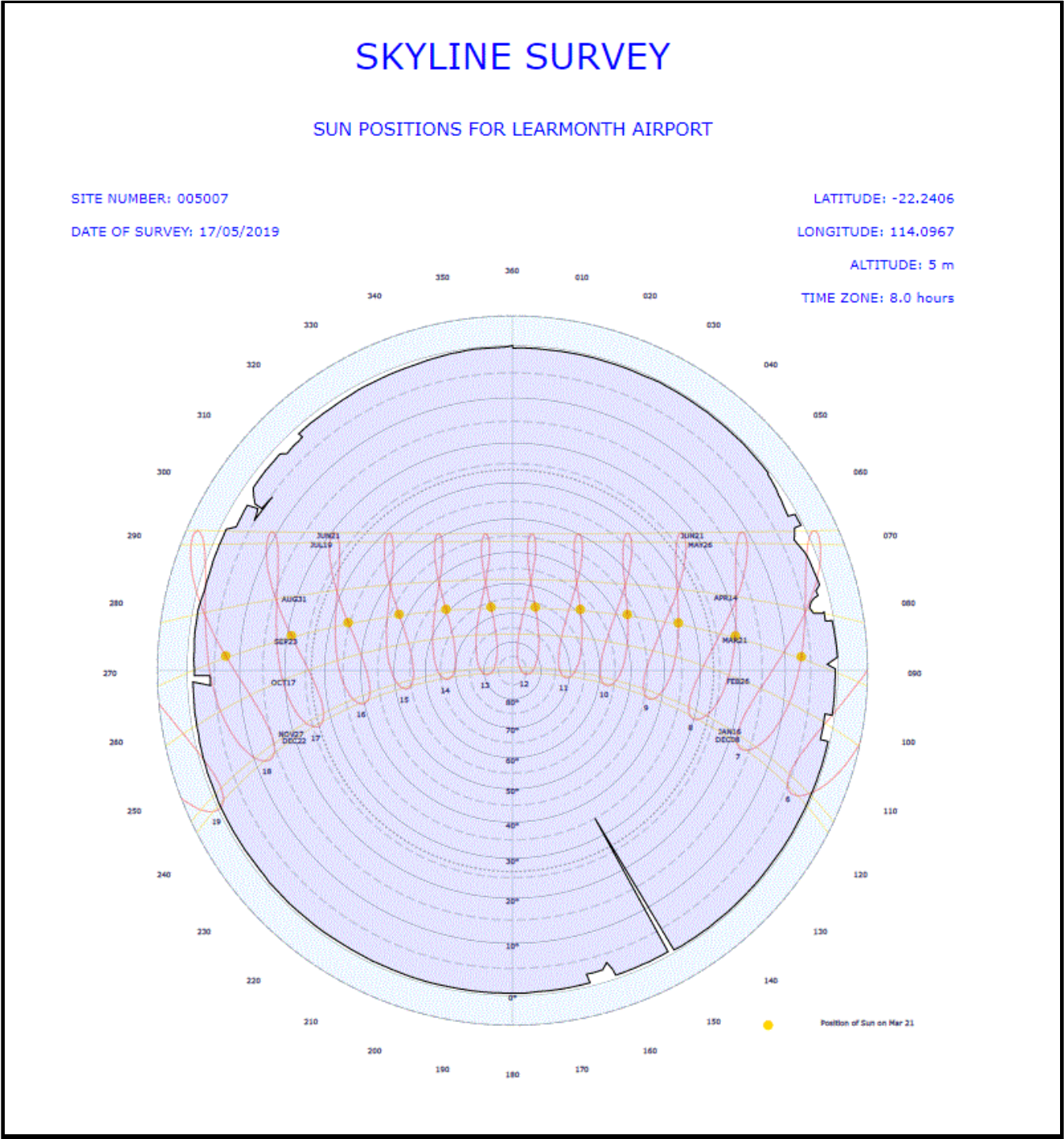
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Skyline Diagram
17/05/2019(most recent)



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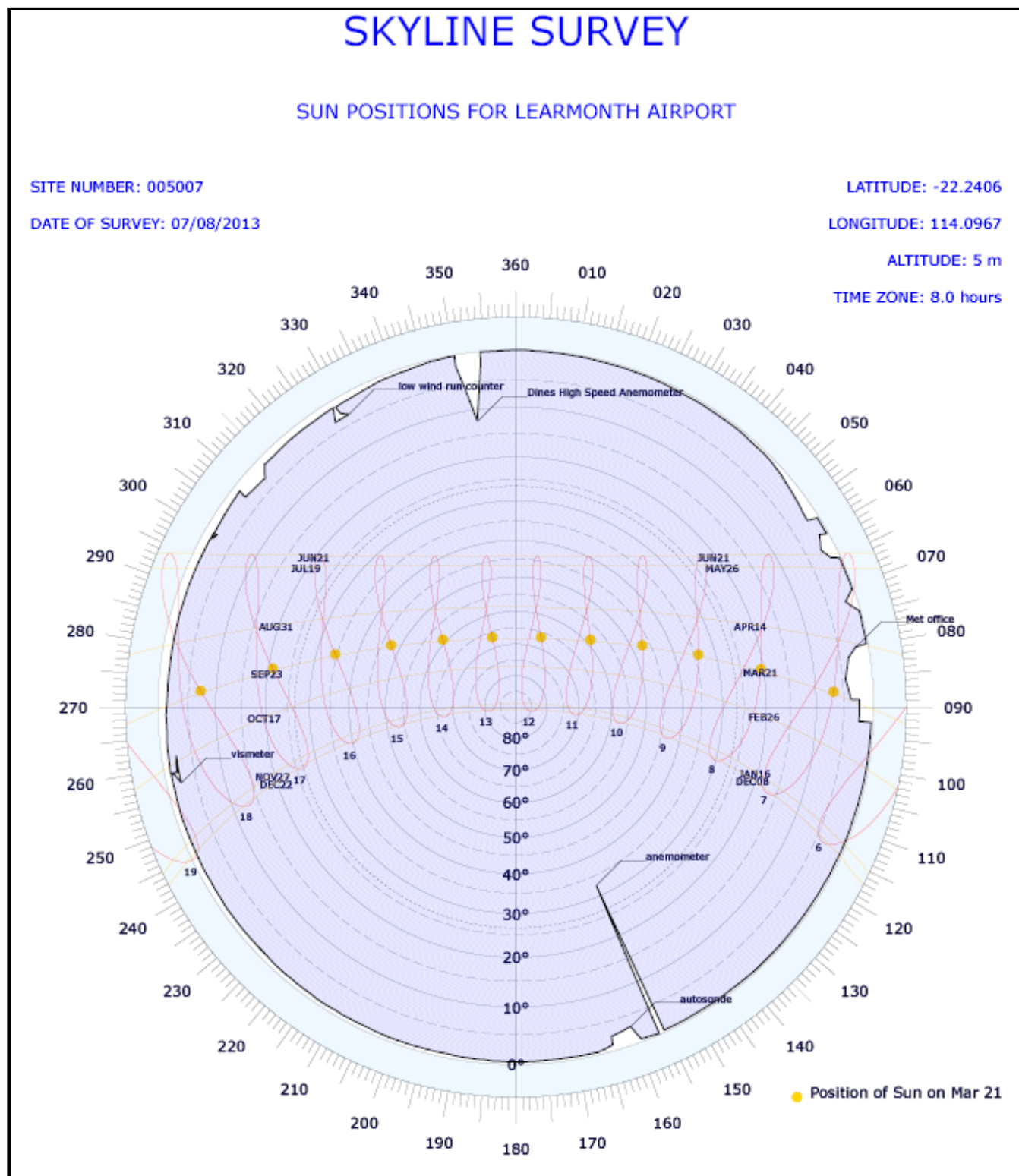
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Skyline Diagram

07/08/2013



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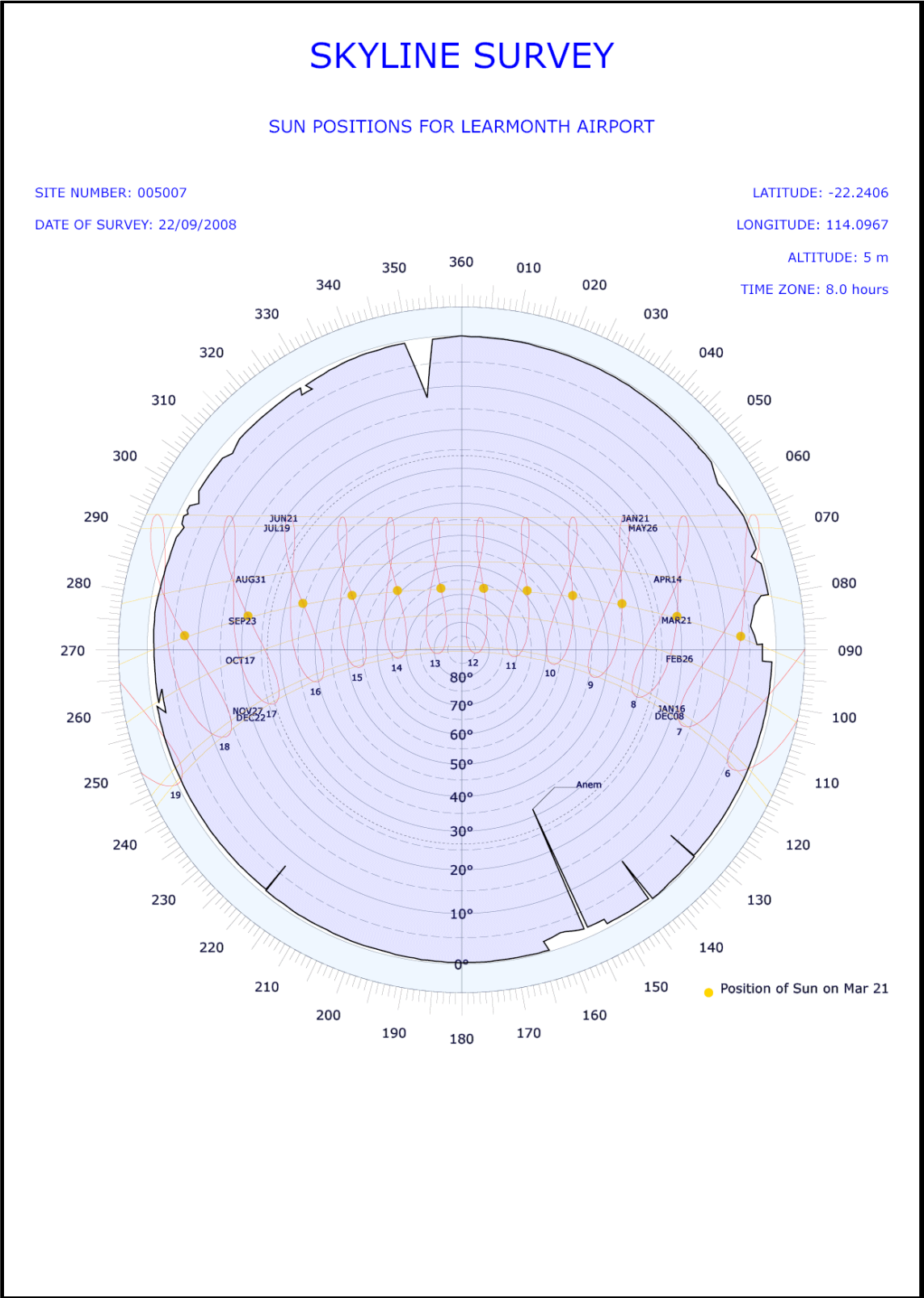
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Skyline Diagram
22/09/2008



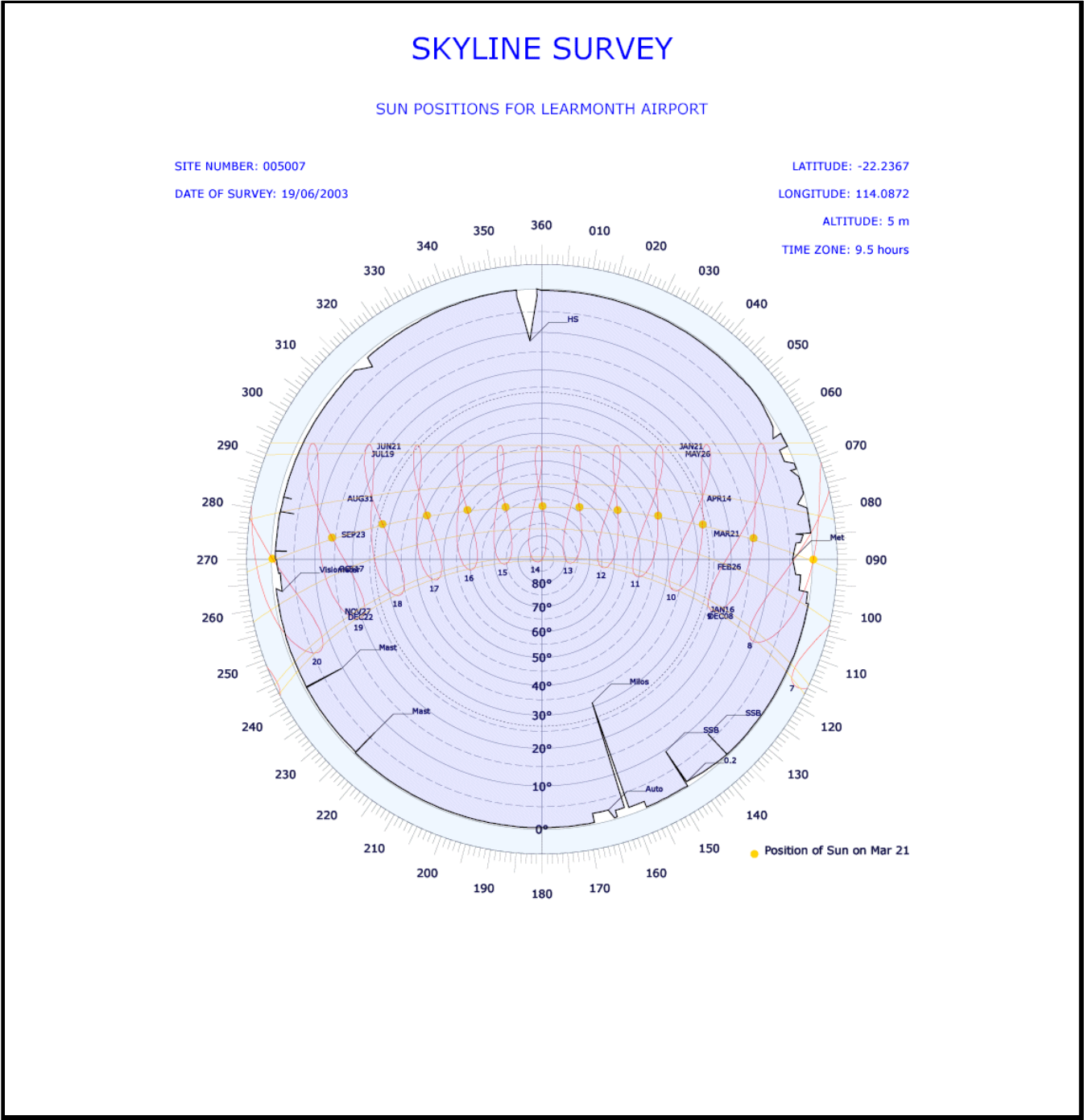
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Skyline Diagram
19/06/2003



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Station Observation Program Summary (Surface Observations) from 01/03/1975 to 14/05/1997

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 14/05/1997 to 24/10/2002

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 24/10/2002 to 28/04/2016

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

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

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

Upper Air Routine 30/11/1997 (most recent)

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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Station meta

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

y nor accept



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Current Status:							Still open
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Station Equipment History

Equipment Install/Remove

Cloud Height

14/OCT/1999 INSTALL Ceilometer (Type Vaisala CT25K S/N - U14502) Surface Observations
22/OCT/2019 REPLACE Ceilometer (Now Vaisala CL31 S/N - R2120413) Surface Observations
22/OCT/2019 REPLACE Ceilometer (Now Vaisala CL31 S/N - R2120413) Upper Air
30/SEP/2011 REPLACE Ceilometer (Now Vaisala CT25K S/N - C04204) Surface Observations
30/SEP/2011 REPLACE Ceilometer (Now Vaisala CT25K S/N - C04204) Upper Air
19/APR/2001 REPLACE Ceilometer (Now Vaisala CT25K S/N - T13202) Surface Observations
19/APR/2001 REPLACE Ceilometer (Now Vaisala CT25K S/N - T13202) Upper Air
03/NOV/2001 REPLACE Ceilometer (Now Vaisala CT25K S/N - U14502) Surface Observations
03/NOV/2001 REPLACE Ceilometer (Now Vaisala CT25K S/N - U14502) Upper Air
12/OCT/2001 SHARE Ceilometer (Type Vaisala CT25K S/N - C04204) Surface Observations
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11/OCT/2001 SHARE Ceilometer (Type Vaisala CT25K S/N - U14502) Upper Air
11/OCT/2001 SHARE Ceilometer (Type Vaisala CT25K S/N - U14502) Upper Air
12/OCT/2001 UNSHARE Ceilometer (Type Vaisala CL31 S/N - R2120413) Surface Observations
01/MAR/1975 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - Unknown) Surface Observations
04/MAR/2004 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - Unknown) Surface Observations

Humidity

30/MAR/2017 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 31855003) Surface Observations
30/MAR/2017 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 31855003) Upper Air
01/MAR/1975 INSTALL Hygrograph (Type Fielden S/N - Unknown) Surface Observations
29/AUG/1994 REMOVE Hygrograph (Type Fielden S/N - Unknown) Surface Observations

Pressure Trend

01/MAR/1975 INSTALL Barograph (Type Weekly S/N - CBM0015) Surface Observations
08/MAY/2017 REMOVE Barograph (Type Weekly S/N - CBM083) Surface Observations
22/AUG/2001 REPLACE Barograph (Now Weekly S/N - CBM076) Surface Observations
21/JAN/2002 REPLACE Barograph (Now Weekly S/N - CBM083) Surface Observations

Lightning

29/SEP/2012 INSTALL Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - F4310005) Surface Observations
26/NOV/2012 REPLACE Lightning Sensor (Now Vaisala TSS928 (Thunderstorm Sensor) S/N - F4540001) Surface Observations
11/OCT/2013 REPLACE Lightning Sensor (Now Vaisala TSS928 (Thunderstorm Sensor) S/N - F4540002) Surface Observations

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

01/OCT/1978 INSTALL Anemometer (Type Dines - Hi Speed S/N - NONE) Surface Observations
01/MAR/1975 INSTALL Anemometer (Type Synchrotac - dial & max gust recorder S/N - Unknown) Surface Observations
01/MAR/1975 INSTALL Anemometer (Type Synchrotac - dial S/N - Unknown) Surface Observations
29/AUG/1994 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 69443/69533) Surface Observations
30/NOV/1997 INSTALL Anemometer (Type Vaisala Cups WAA151 S/N - S21202) Upper Air

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Extended Climatological Station Metadata

All History

Station:	LEARMONTH AIRPORT			Location:	LEARMONTH AIRPORT			State:	WA
Bureau No.:	005007	WMO No.:	94302	Aviation ID:	YPLM	Opened:	01 Jan 1945	Current Status:	Still open
Latitude:	-22.2406	Longitude:	114.0967	Elevation:	5 m	Barometer Elev:	5.5 m	Metadata compiled:	26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

30/NOV/1997 INSTALL Anemometer (Type Vaisala Vane WAV151 S/N - S22301) Upper Air
29/AUG/1994 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - NONE) Infrastructure
30/NOV/1997 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
01/MAR/1975 INSTALL Wind Run Anemometer (Type Munro S/N - 7119) Surface Observations
01/APR/2016 REMOVE Anemometer (Type Dines - Hi Speed S/N - NONE) Surface Observations
29/AUG/1994 REMOVE Anemometer (Type Synchrotac - dial & max gust recorder S/N - Unknown) Surface Observations
01/OCT/1978 REMOVE Anemometer (Type Synchrotac - dial S/N - Unknown) Surface Observations
12/OCT/2001 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - 65492/76385) Surface Observations
12/OCT/2001 REMOVE Mast Anemometer (Type Pivot, Standard 10m S/N - NONE) Infrastructure
13/MAR/2013 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 65497) Surface Observations
13/MAR/2013 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 65497) Upper Air
16/OCT/1999 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 65492/76385) Surface Observations
13/MAR/2013 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - NONE) Surface Observations
13/MAR/2013 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - NONE) Upper Air
29/APR/2003 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - 1A) Surface Observations
29/APR/2003 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - 1A) Upper Air
30/AUG/2008 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - D12302) Surface Observations
30/AUG/2008 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - D12302) Upper Air
12/JUL/2000 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - R16216) Surface Observations
12/JUL/2000 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - R16216) Upper Air
30/AUG/2008 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - D11302) Surface Observations
30/AUG/2008 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - D11302) Upper Air
06/APR/2010 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - D11303) Surface Observations
06/APR/2010 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - D11303) Upper Air
29/APR/2003 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - X51201) Surface Observations
29/APR/2003 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - X51201) Upper Air
12/OCT/2001 SHARE Anemometer (Type Vaisala Cups WAA151 S/N - 1A) Surface Observations
12/OCT/2001 SHARE Anemometer (Type Vaisala Cups WAA151 S/N - D12302) Surface Observations
12/OCT/2001 SHARE Anemometer (Type Vaisala Cups WAA151 S/N - R16216) Surface Observations
12/OCT/2001 SHARE Anemometer (Type Vaisala Cups WAA151 S/N - S21202) Surface Observations
12/OCT/2001 SHARE Anemometer (Type Vaisala Vane WAV151 S/N - D11302) Surface Observations
12/OCT/2001 SHARE Anemometer (Type Vaisala Vane WAV151 S/N - D11303) Surface Observations
12/OCT/2001 SHARE Anemometer (Type Vaisala Vane WAV151 S/N - S22301) Surface Observations
12/OCT/2001 SHARE Anemometer (Type Vaisala Vane WAV151 S/N - X51201) Surface Observations

Wet Bulb Temperature

29/AUG/1994 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 0234) Surface Observations
30/NOV/1997 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 0234) Upper Air
30/MAR/2017 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 10154) Surface Observations
30/MAR/2017 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 10154) Upper Air
12/OCT/2001 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations
17/JUL/2015 REPLACE Temperature Probe - Wet Bulb (Now Rosemount S/N - 10154) Surface Observations
17/JUL/2015 REPLACE Temperature Probe - Wet Bulb (Now Rosemount S/N - 10154) Upper Air
20/NOV/1996 REPLACE Temperature Probe - Wet Bulb (Now Rosemount S/N - NONE) Surface Observations

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Latitude:	-22.2406	Longitude:	114.0967	Elevation:	5 m	Current Status:	Still open
						Barometer Elev:	5.5 m
							Metadata compiled: 26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

12/OCT/2001 SHARE Temperature Probe - Wet Bulb (Type Rosemount S/N - 0234) Surface Observations
12/OCT/2001 SHARE Temperature Probe - Wet Bulb (Type Rosemount S/N - 10154) Surface Observations
10/AUG/2006 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 14643) Surface Observations
17/JUN/2001 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 15881) Surface Observations
01/MAR/1975 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 5240) Surface Observations
04/OCT/2012 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - CBM5240) Surface Observations
04/OCT/2012 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 14611) Surface Observations
13/DEC/2013 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - M1767) Surface Observations
19/JUN/2003 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - M1767) Surface Observations
31/MAY/2000 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 12584) Surface Observations
12/DEC/2005 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 14611) Surface Observations
29/JUN/2015 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 14643) Surface Observations
27/FEB/2012 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 15903) Surface Observations
08/OCT/2015 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 27571) Surface Observations
04/OCT/2012 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M1767) Surface Observations
17/JUN/2001 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M1767) Surface Observations

Solar Radiation (Long Wave)

19/AUG/1996 INSTALL Pyrgeometer (Type Epply PIR S/N - 29081F3) Radiation
21/JUN/2006 REMOVE Pyrgeometer (Type Epply PIR S/N - 28984F3) Radiation
07/NOV/1996 REPLACE Pyrgeometer (Now Epply PIR S/N - 28984F3) Radiation

Spectral Radiation

16/NOV/1998 INSTALL Photometer Head (Type SPO2 Mk1 S/N - 1003) Radiation
21/JUN/2006 REMOVE Photometer Head (Type SPO2 Mk1 S/N - 1004) Radiation
03/DEC/2005 REPLACE Photometer Head (Now SPO2 Mk1 S/N - 1004) Radiation
05/OCT/2003 REPLACE Photometer Head (Now SPO2 Mk1 S/N - 1042) Radiation

Maximum Temperature

01/MAR/1975 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 4889) Surface Observations
28/APR/2016 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - 15545) Surface Observations
21/MAY/2014 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 15545) Surface Observations
05/JAN/2003 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 15545) Surface Observations
10/AUG/2007 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - CBM4264) Surface Observations

Soil Temperature 10cm

01/MAR/1975 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - 9604875) Surface Observations
28/APR/2016 REMOVE Thermometer, Soil, 10cm (Type Dobros S/N - 9604875) Surface Observations

Soil Temperature 20cm

01/MAR/1975 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - 9566414) Surface Observations
28/APR/2016 REMOVE Thermometer, Soil, 20cm (Type Dobros S/N - 9604846) Surface Observations
31/MAY/2000 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 9604846) Surface Observations

Soil Temperature 50cm

01/MAR/1975 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - M6768) Surface Observations
28/APR/2016 REMOVE Thermometer, Soil, 50cm (Type Dobros S/N - M6768) Surface Observations

Snow Height (No Electronic History)

Soil Temperature 100cm

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All History

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Bureau No.:	005007	WMO No.:	94302	Aviation ID:	YPLM	Opened:	01 Jan 1945	Current Status:	Still open
Latitude:	-22.2406	Longitude:	114.0967	Elevation:	5 m	Barometer Elev:	5.5 m	Metadata compiled:	26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

01/MAR/1975 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - 9690796) Surface Observations
28/APR/2016 REMOVE Thermometer, Soil, 100cm (Type Dobros S/N - 9725165) Surface Observations
24/SEP/2002 REPLACE Thermometer, Soil, 100cm (Now Dobros S/N - 9725165) Surface Observations

Sunshine Hours (No Electronic History)

Wind Run

01/MAR/1975 INSTALL Wind Run Anemometer (Type Munro S/N - 7119) Surface Observations

Minimum Temperature

01/MAR/1975 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - M0299) Surface Observations
28/APR/2016 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - 12715) Surface Observations
31/OCT/2007 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 12715) Surface Observations

Terrestrial Minimum Temperature

01/MAR/1975 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - M3452) Surface Observations
28/APR/2016 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - 18949) Surface Observations
31/MAY/2000 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 12767) Surface Observations
16/MAR/2016 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 18949) Surface Observations
24/OCT/2013 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M2575) Surface Observations
12/OCT/2001 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M6519) Surface Observations
23/JUN/2010 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 29094) Surface Observations

Visibility

14/OCT/1999 INSTALL Visibility Meter (Type Vaisala FD12 S/N - U02507) Surface Observations
12/APR/2019 REPLACE Visibility Meter (Now Vaisala FS11 S/N - P4110311) Surface Observations
12/APR/2019 REPLACE Visibility Meter (Now Vaisala FS11 S/N - P4110311) Upper Air
12/OCT/2001 SHARE Visibility Meter (Type Vaisala FD12 S/N - U02507) Surface Observations
11/OCT/2001 SHARE Visibility Meter (Type Vaisala FD12 S/N - U02507) Upper Air
12/OCT/2001 UNSHARE Visibility Meter (Type Vaisala FS11 S/N - P4110311) Surface Observations

Soil Temperature 5cm (No Electronic History)

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Oxygen Content (No Electronic History)

RF Reflectivity

13/SEP/1978 INSTALL Radar (Type WF2 S/N - Unknown) Upper Air
17/NOV/1997 REMOVE Radar (Type WF2 S/N - Unknown) Upper Air

Total Column Ozone Amount (No Electronic History)

Pressure

01/MAR/1975 INSTALL Barometer (Type Kew pattern mercury S/N - 1845) Surface Observations
30/NOV/1997 INSTALL Barometer (Type Vaisala DPA21 S/N - S15310) Upper Air
29/AUG/1994 INSTALL Barometer (Type Vaisala PA11A S/N - S1110005) Surface Observations
13/MAR/2013 REMOVE Barometer (Type Vaisala DPA21 S/N - S15310) Surface Observations
13/MAR/2013 REMOVE Barometer (Type Vaisala DPA21 S/N - S15310) Upper Air
29/AUG/1994 REMOVE Barometer (Type Vaisala PA11A S/N - 679509) Surface Observations
05/JUL/1994 REPLACE Barometer (Now Vaisala PA11A S/N - 679509) Surface Observations
15/MAR/2012 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - G2970050) Surface Observations
15/MAR/2012 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - G2970050) Upper Air

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All History

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Bureau No.:	005007	WMO No.:	94302	Aviation ID:	YPLM	Opened:	01 Jan 1945
Latitude:	-22.2406	Longitude:	114.0967	Elevation:	5 m	Barometer Elev:	5.5 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

12/OCT/2001 SHARE Barometer (Type Vaisala DPA21 S/N - S15310) Surface Observations
12/OCT/2001 SHARE Barometer (Type Vaisala PA11A S/N - S1110005) Surface Observations
30/NOV/1997 SHARE Barometer (Type Vaisala PA11A S/N - S1110005) Upper Air
12/OCT/2001 UNSHARE Barometer (Type Vaisala PTB330B (General Use) S/N - G2970050) Surface Observations

Evaporation

30/AUG/2017 INSTALL Equipment Reset Device (Type Watchdog Automatic Evaporation Pan S/N - NONE) Surface Observations
01/MAR/1975 INSTALL Evaporation Pan (Type Class A S/N - NONE) Surface Observations
10/MAY/2017 INSTALL Evaporation Pan (Type SS Class A Automatic S/N - NONE) Surface Observations
27/OCT/2021 REMOVE Evaporation Pan (Type Class A S/N - NONE) Surface Observations
28/NOV/2018 REPLACE Equipment Reset Device (Now Watchdog Automatic Evaporation Pan S/N - NONE) Surface Observations
20/FEB/2014 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations

Rainfall

01/MAR/1975 INSTALL Pluviograph (Type Unknown S/N - Unknown) Rainfall Intensity
01/APR/1997 REMOVE Pluviograph (Type Unknown S/N - Unknown) Rainfall Intensity
01/APR/1945 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
29/AUG/1994 INSTALL Raingauge (Type HS TB3A-0.2 S/N - 96-201) Surface Observations
10/MAY/2017 INSTALL Raingauge (Type HS-TB3/0.1/P S/N - 15-136) Surface Observations
24/MAR/1999 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 76506) Rainfall Intensity
24/MAR/1999 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 76506) Surface Observations
24/MAR/1999 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 76506) Upper Air
06/DEC/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 78157) Rainfall Intensity
06/DEC/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 78157) Surface Observations
06/DEC/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 78157) Upper Air
08/OCT/2004 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 84075) Rainfall Intensity
08/OCT/2004 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 84075) Surface Observations
08/OCT/2004 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 84075) Upper Air
01/APR/1997 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96-201) Rainfall Intensity
12/OCT/2001 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96-201) Surface Observations
11/OCT/2001 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96-201) Upper Air
01/APR/1997 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 76506) Rainfall Intensity
12/OCT/2001 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 76506) Surface Observations
11/OCT/2001 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 76506) Upper Air
01/APR/1997 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 78157) Rainfall Intensity
12/OCT/2001 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 78157) Surface Observations
11/OCT/2001 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 78157) Upper Air
23/OCT/2019 UNSHARE Raingauge (Type Rimco 8020 TBRG S/N - 84075) Rainfall Intensity
12/OCT/2001 UNSHARE Raingauge (Type Rimco 8020 TBRG S/N - 84075) Surface Observations

River Height (No Electronic History)

Solar Radiation

19/AUG/1996 INSTALL Global Pyranometer Mount (Type Carter Scott Mk1 S/N - Unknown) Radiation
19/AUG/1996 INSTALL Pyranometer (Type Kipp&Zonen CM11 S/N - 924010) Radiation
19/AUG/1996 INSTALL Pyranometer (Type Kipp&Zonen CM11 S/N - 924016) Radiation
21/JUN/2006 REMOVE Global Pyranometer Mount (Type Carter Scott Mk1 S/N - Unknown) Radiation

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Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

21/JUN/2006 REMOVE Pyranometer (Type Kipp&Zonen CM11 S/N - 924649) Radiation
 21/JUN/2006 REMOVE Pyranometer (Type Kipp&Zonen CM11 S/N - 924650) Radiation
 17/APR/1997 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924010) Radiation
 16/NOV/1998 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924010) Radiation
 25/MAY/2001 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924010) Radiation
 17/APR/1997 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924016) Radiation
 16/NOV/1998 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924016) Radiation
 25/MAY/2001 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924016) Radiation
 27/OCT/2002 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924649) Radiation
 15/OCT/2003 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924649) Radiation
 02/DEC/2005 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924649) Radiation
 27/OCT/2002 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924650) Radiation
 15/OCT/2003 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924650) Radiation
 02/DEC/2005 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924650) Radiation

Solar Radiation (Direct)

19/AUG/1996 INSTALL Pyrheliometer (Type Kipp&Zonen CH1 S/N - 940048) Radiation
 21/JUN/2006 REMOVE Pyrheliometer (Type Carter Scott DN5 S/N - 5017) Radiation
 15/OCT/2003 REPLACE Pyrheliometer (Now Carter Scott DN5 S/N - 5017) Radiation

Turbidity (No Electronic History)

Sea Water Level (No Electronic History)

Sea Water Temperature

10/MAY/2017 INSTALL Temperature Probe - Water (Type TEMP CONTROLS TCBMP02A S/N - Unknown) Surface Observations
 28/NOV/2018 REPLACE Temperature Probe - Water (Now TEMP CONTROLS TCBMP02A S/N - Unknown) Surface Observations

Wind Speed

01/OCT/1978 INSTALL Anemometer (Type Dines - Hi Speed S/N - NONE) Surface Observations
 01/MAR/1975 INSTALL Anemometer (Type Synchronac - dial & max gust recorder S/N - Unknown) Surface Observations
 01/MAR/1975 INSTALL Anemometer (Type Synchronac - dial S/N - Unknown) Surface Observations
 29/AUG/1994 INSTALL Anemometer (Type Synchronac Vane - Type 706 S/N - 69443/69533) Surface Observations
 30/NOV/1997 INSTALL Anemometer (Type Vaisala Cups WAA151 S/N - S21202) Upper Air
 30/NOV/1997 INSTALL Anemometer (Type Vaisala Vane WAV151 S/N - S22301) Upper Air
 29/AUG/1994 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - NONE) Infrastructure
 30/NOV/1997 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
 01/MAR/1975 INSTALL Wind Run Anemometer (Type Munro S/N - 7119) Surface Observations
 01/APR/2016 REMOVE Anemometer (Type Dines - Hi Speed S/N - NONE) Surface Observations
 29/AUG/1994 REMOVE Anemometer (Type Synchronac - dial & max gust recorder S/N - Unknown) Surface Observations
 01/OCT/1978 REMOVE Anemometer (Type Synchronac - dial S/N - Unknown) Surface Observations
 12/OCT/2001 REMOVE Anemometer (Type Synchronac Vane - Type 706 S/N - 65492/76385) Surface Observations
 12/OCT/2001 REMOVE Mast Anemometer (Type Pivot, Standard 10m S/N - NONE) Infrastructure
 13/MAR/2013 REPLACE Anemometer (Now Synchronac Cups - Type 732 S/N - 65497) Surface Observations
 13/MAR/2013 REPLACE Anemometer (Now Synchronac Cups - Type 732 S/N - 65497) Upper Air
 16/OCT/1999 REPLACE Anemometer (Now Synchronac Vane - Type 706 S/N - 65492/76385) Surface Observations
 13/MAR/2013 REPLACE Anemometer (Now Synchronac Vane - Type 706 S/N - NONE) Surface Observations
 13/MAR/2013 REPLACE Anemometer (Now Synchronac Vane - Type 706 S/N - NONE) Upper Air

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Extended Climatological Station Metadata

All History

Station:	LEARMONTH AIRPORT		Location:	LEARMONTH AIRPORT		State:	WA
Bureau No.:	005007	WMO No.:	94302	Aviation ID:	YPLM	Opened:	01 Jan 1945
Latitude:	-22.2406	Longitude:	114.0967	Elevation:	5 m	Barometer Elev:	5.5 m
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

29/APR/2003 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - 1A) Surface Observations
 29/APR/2003 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - 1A) Upper Air
 30/AUG/2008 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - D12302) Surface Observations
 30/AUG/2008 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - D12302) Upper Air
 12/JUL/2000 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - R16216) Surface Observations
 12/JUL/2000 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - R16216) Upper Air
 30/AUG/2008 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - D11302) Surface Observations
 30/AUG/2008 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - D11302) Upper Air
 06/APR/2010 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - D11303) Surface Observations
 06/APR/2010 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - D11303) Upper Air
 29/APR/2003 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - X51201) Surface Observations
 29/APR/2003 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - X51201) Upper Air
 12/OCT/2001 SHARE Anemometer (Type Vaisala Cups WAA151 S/N - 1A) Surface Observations
 12/OCT/2001 SHARE Anemometer (Type Vaisala Cups WAA151 S/N - D12302) Surface Observations
 12/OCT/2001 SHARE Anemometer (Type Vaisala Cups WAA151 S/N - R16216) Surface Observations
 12/OCT/2001 SHARE Anemometer (Type Vaisala Cups WAA151 S/N - S21202) Surface Observations
 12/OCT/2001 SHARE Anemometer (Type Vaisala Vane WAV151 S/N - D11302) Surface Observations
 12/OCT/2001 SHARE Anemometer (Type Vaisala Vane WAV151 S/N - D11303) Surface Observations
 12/OCT/2001 SHARE Anemometer (Type Vaisala Vane WAV151 S/N - S22301) Surface Observations
 12/OCT/2001 SHARE Anemometer (Type Vaisala Vane WAV151 S/N - X51201) Surface Observations

Air Temperature

30/MAR/2017 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 31855003) Surface Observations
 30/MAR/2017 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 31855003) Upper Air
 30/NOV/1997 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 0233) Upper Air
 29/AUG/1994 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - NONE) Surface Observations
 12/OCT/2001 REMOVE Temperature Probe - Dry Bulb (Type Rosemount S/N - NONE) Surface Observations
 01/MAR/1975 INSTALL Thermograph (Type Fielden S/N - Unknown) Surface Observations
 29/AUG/1994 REMOVE Thermograph (Type Fielden S/N - Unknown) Surface Observations
 01/MAR/1975 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 5770) Surface Observations
 04/OCT/2012 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 12596) Surface Observations
 31/MAY/2000 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - CBM5240) 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
05/APR/2005 - 29/OCT/2020	Cloud Height	0
30/MAR/2017 - 27/MAR/2021	Humidity	0
15/SEP/1998 - 23/JUL/2011	Pressure Trend	0
26/NOV/2012 - 24/NOV/2018	Lightning	2

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Extended Climatological Station Metadata

All History

Station:	LEARMONTH AIRPORT		Location:	LEARMONTH AIRPORT		State:	WA
Bureau No.:	005007	WMO No.:	94302	Aviation ID:	YPLM	Opened:	01 Jan 1945
Latitude:	-22.2406	Longitude:	114.0967	Elevation:	5 m	Barometer Elev:	5.5 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Available Date Range	Element	Fail Field Performance Check
31/OCT/1996 - 27/MAR/2021	Wind Direction	2
31/OCT/1996 - 30/MAR/2017	Wet Bulb Temperature	4
15/SEP/1998 - 17/JUL/2015	Maximum Temperature	0
15/SEP/1998 - 17/JUL/2015	Soil Temperature 10cm	0
15/SEP/1998 - 17/JUL/2015	Soil Temperature 20cm	0
15/SEP/1998 - 17/JUL/2015	Soil Temperature 50cm	0
15/SEP/1998 - 17/JUL/2015	Soil Temperature 100cm	0
15/SEP/1998 - 22/JUN/2016	Wind Run	0
15/SEP/1998 - 17/JUL/2015	Minimum Temperature	0
15/SEP/1998 - 17/JUL/2015	Terrestrial Minimum Temperature	0
12/JUL/2000 - 23/OCT/2019	Visibility	2
31/OCT/1996 - 27/MAR/2021	Pressure	2
31/MAY/2000 - 12/FEB/2020	Evaporation	1
31/OCT/1996 - 27/MAR/2021	Rainfall	8
16/SEP/1996 - 16/NOV/1998	Solar Radiation	0
31/OCT/1996 - 27/MAR/2021	Wind Speed	2
31/OCT/1996 - 27/MAR/2021	Air Temperature	2

Station Detail Changes

09/MAY/2006 CLASSIFICATION AWS Funding - Aviation Funded Assets (AVAF)
12/OCT/2020 CLASSIFICATION AWS Priority 2 - Important (SLP2-AWS)
01/JUL/2011 CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT)
01/JUL/1998 CLASSIFICATION Autosonde (RSA)
26/JUN/2002 CLASSIFICATION CLIMAT Stations (CLC)
26/JUN/2002 CLASSIFICATION CLIMAT TEMP Stations (CLT)
09/MAY/2006 CLASSIFICATION Category A (TAF A)
10/JAN/2011 CLASSIFICATION Critical (ASOSCRIT)
10/AUG/2020 CLASSIFICATION Critical Aviation or Defence (AVCRIT) ENDED 16-10-2020
30/NOV/1997 CLASSIFICATION Fielden (FFD)
01/MAY/1997 CLASSIFICATION GCOS Surface Network (GSN)
14/FEB/1997 CLASSIFICATION GCOS Upper Air Network (GUAN)
01/JUL/2018 CLASSIFICATION HQ EVAPORATION (HQEVAP)
10/JUN/2014 CLASSIFICATION Important Aviation or Defence (AVIMP) ENDED 16-10-2020
01/JUL/1998 CLASSIFICATION Information and Observations (MIO)
27/SEP/2021 CLASSIFICATION Mastered in EAMS (EAMS)
21/MAR/2016 CLASSIFICATION NOT Processed by ASOS (NPBA)
01/JUL/2017 CLASSIFICATION Observing Operations Hub - Perth (OOH-P)
01/SEP/1992 CLASSIFICATION Reference Climate Stations (RCS) ENDED 30-06-2011
14/FEB/1997 CLASSIFICATION Regional Basic Synoptic Network (RBSN)
01/JAN/1945 CLASSIFICATION Restricted Images (XIMG)
09/JUL/2009 OBJECT Document/005007090709tnt
13/JUL/2010 OBJECT Document/005007100713tnt
02/AUG/2011 OBJECT Document/005007110723tnt

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Extended Climatological Station Metadata
All History

Station:	LEARMONTH AIRPORT		Location:	LEARMONTH AIRPORT		State:	WA
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Latitude:	-22.2406	Longitude:	114.0967	Elevation:	5 m	Current Status:	Still open
						Barometer Elev:	5.5 m
							Metadata compiled: 26 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

16/JUL/2018 OBJECT Document/ASOS CONFIGURATION
26/APR/2019 OBJECT Document/AWS SITE AUDIT
15/MAR/2011 OBJECT Document/AWS SITE AUDIT
21/OCT/2005 OBJECT Document/Action dated 21/10/2005
06/OCT/2011 OBJECT Document/CEILOMETER STATUS
26/OCT/2017 OBJECT Document/CEILOMETER STATUS
12/APR/2019 OBJECT Document/CEILOMETER STATUS
27/APR/2016 OBJECT Document/CEILOMETER STATUS
30/MAR/2017 OBJECT Document/CEILOMETER STATUS
16/APR/2012 OBJECT Document/CEILOMETER STATUS
08/JUN/2018 OBJECT Document/CEILOMETER STATUS
17/MAY/2019 OBJECT Document/SKYLINE DATA
22/SEP/2008 OBJECT Document/SKYLINE DATA
19/JUN/2003 OBJECT Document/SKYLINE DATA
06/OCT/2011 OBJECT Document/VISIBILITY METER STATUS
26/MAR/2013 OBJECT Document/VISIBILITY METER STATUS
26/OCT/2017 OBJECT Document/VISIBILITY METER STATUS
12/APR/2019 OBJECT Document/VISIBILITY METER STATUS
27/APR/2016 OBJECT Document/VISIBILITY METER STATUS
30/MAR/2017 OBJECT Document/VISIBILITY METER STATUS
16/APR/2012 OBJECT Document/VISIBILITY METER STATUS
08/JUN/2018 OBJECT Document/VISIBILITY METER STATUS
01/JAN/1945 STATION - (nondb seeding) Opened
01/JAN/1945 STATION - (nondb seeding) aero_ht Changed to 6
01/JAN/1945 STATION - (nondb seeding) bar_ht Changed to 5.5
01/JAN/1945 STATION - (nondb seeding) bar_ht_deriv Changed to SURVEY
01/JAN/1945 STATION - (nondb seeding) latitude Changed to -22.2367
01/JAN/1945 STATION - (nondb seeding) longitude Changed to 114.0872
01/JAN/1945 STATION - (nondb seeding) name Changed to LEARMONTH AIRPORT
01/JAN/1945 STATION - (nondb seeding) stn_ht Changed to 5
01/JAN/1945 STATION - (nondb seeding) stn_ht_deriv Changed to SURVEY
01/JAN/1945 STATION - (nondb seeding) wmo_num Changed to 94302
01/JAN/1945 STATION aviation_id Changed to YPLM
19/JUN/2003 STATION latitude Changed to -22.2406WGS84
19/JUN/2003 STATION latlon_deriv Changed to GPS
01/JAN/1945 STATION latlon_deriv Changed to Unknown
19/JUN/2003 STATION latlon_error Changed to
19/JUN/2003 STATION longitude Changed to 114.0967WGS84
13/OCT/1993 STATION lu_0_100m Changed to Airport
13/OCT/1993 STATION lu_100m_1km Changed to Airport
13/OCT/1993 STATION lu_1km_10km Changed to Open farmland, grassland or tundra
13/OCT/1993 STATION soil_type Changed to sand
13/OCT/1993 STATION surface_type Changed to mostly covered by grass

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All History

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Bureau No.:	005007	WMO No.:	94302	Aviation ID:	YPLM	Opened:	01 Jan 1945
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Current Status:							Still open
Metadata compiled:							26 JUL 2025

System Changes

- 01/APR/1945 SYSTEM Infrastructure Commenced
- 20/DEC/2018 SYSTEM Radiation Ceased
- 21/JUN/2006 SYSTEM Radiation Ceased
- 01/JUL/1986 SYSTEM Radiation Commenced
- 19/AUG/1996 SYSTEM Radiation Commenced
- 23/OCT/2019 SYSTEM Rainfall Intensity Ceased
- 01/MAR/1975 SYSTEM Rainfall Intensity Commenced
- 23/OCT/2019 SYSTEM Reference Standards Ceased
- 01/JAN/2011 SYSTEM Reference Standards Commenced
- 03/MAY/2013 SYSTEM Space Observations Commenced
- 01/APR/1945 SYSTEM Surface Observations Commenced
- 01/JAN/1978 SYSTEM Upper Air Commenced

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Notes on these metadata

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

Reliability of the metadata

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

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

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

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

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

Station Number

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

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

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Notes on these metadata

Network Classification

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

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

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Notes on these metadata

Network Classification Continued....

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

Station Purpose

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

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

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

Station Observation Program Summary

Surface Observations

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

Set a)

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

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Notes on these metadata

Surface observations continued....

Set b)

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

Current Station Equipment Summary

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

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

Station Equipment History

Equipment Install/Remove

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

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

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

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

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

Unshare - The instrument is no longer shared between systems

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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

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

Prepared by the Bureau of Meteorology.

Contact us by phone on (03) 9669 4082, by fax on (03) 9669 4515, or by email on climatedata@bom.gov.au

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