



Basic Climatological Station Metadata

Current status

Metadata compiled: 28 JUL 2018

Station: LAVERTON RAAF

Bureau of Meteorology station number: 087031

Bureau of Meteorology district name: West Central

State: VIC

World Meteorological Organization number: 94865

Identification: YLVT

Network Classification: CLIMAT Stations, National Benchmark Network for Agrometeorology

Station purpose: Synoptic, Upper Air, Aeronautical

Automatic Weather Station: Almos



Current Station Location				
Latitude	Decimal	-37.8565	Hour Min Sec	37°51'23"S
Longitude	Decimal	144.7566	Hour Min Sec	144°45'24"E
Station Height	20.1 m	Barometer Height	20.4 m	
Method of station geographic positioning			SURVEY	

Year opened: 1941

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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Current status

Station: LAVERTON RAAF	Location: LAVERTON RAAF			State: VIC
Bureau No.: 087031	WMO No.: 94865	Aviation ID: YLVT	Opened: 01 Jan 1941	Current Status: Still open
Latitude: -37.8565	Longitude: 144.7566	Elevation: 20.1 m	Barometer Elev: 20.4 m	Metadata compiled: 28 JUL 2018

Observation summary

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



DAILY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
EVAPORATION	JAN 1976	AUG 1999	99.7	23	0
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	JAN 1976	AUG 1999	96.4	278	1
GROUND MINIMUM TEMPERATURE	SEP 1959	AUG 1999	16.5	47	399
MAXIMUM AIR TEMPERATURE	OCT 1943	JUN 2018	99.5	135	0
MAXIMUM WIND GUST SPEED	JUL 1941	JUN 2018	85.8	688	108
SUNSHINE HOURS	OCT 1967	AUG 1999	99.4	68	0
WIND RUN ABOVE 10 FEET	MAR 1997	JUN 2018	80.8	120	45
WIND RUN BELOW 10 FEET	JAN 1976	AUG 1999	99.4	46	0
RAINFALL	JUN 1941	JUL 2018	100	N/A	N/A

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HOURLY DATA HOLDINGS - from 1 to 24 observations per day

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
AIR TEMPERATURE	AUG 1941	JUN 2018	92.5	8.0	188	55
DEW POINT	NOV 1946	JUN 2018	93.7	8.1	4	48
MEAN SEA LEVEL PRESSURE	JUL 1951	JUN 2018	99.2	8.1	11	0
SOIL TEMPERATURE - 10cm	JAN 1999	AUG 1999	80.1	2.0	43	0
TOTAL CLOUD AMOUNT	AUG 1941	JUN 2018	80.0	6.3	1203	128
WIND SPEED	AUG 1941	JUN 2018	92.5	8.0	188	55
UPPER AIR TEMPERATURE	JAN 1945	AUG 1999	88.7	1.6	304	46
UPPER AIR WIND SPEED	AUG 1953	JUL 2006	82.8	3.5	106	97

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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 1965	AUG 1999	89.7	1292	0

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	DEC 2001	JUL 2018	98.7	1421.7	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	NOV 1993	JUL 2018	93.8	45.0	N/A	0

UPPER-AIR EDT DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
Wind only flights	May 1998	Aug 1999	N/A	2.0	3	0
Wind, temperature and pressure flights	Oct 1990	Aug 1999	N/A	1.9	51	1

Holdings calculated up to 01 Jul 2018

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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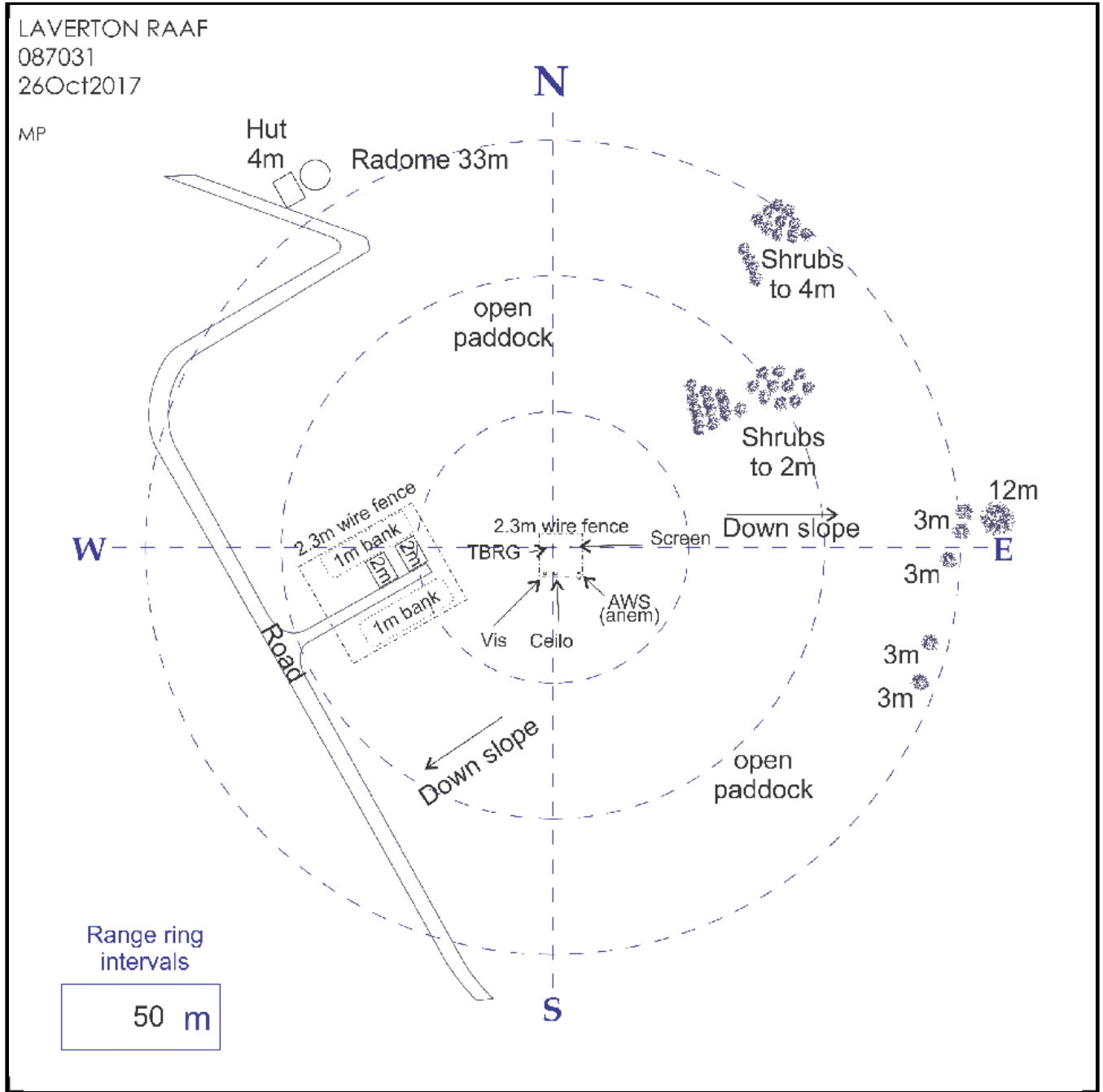
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

26/10/2017(most recent)



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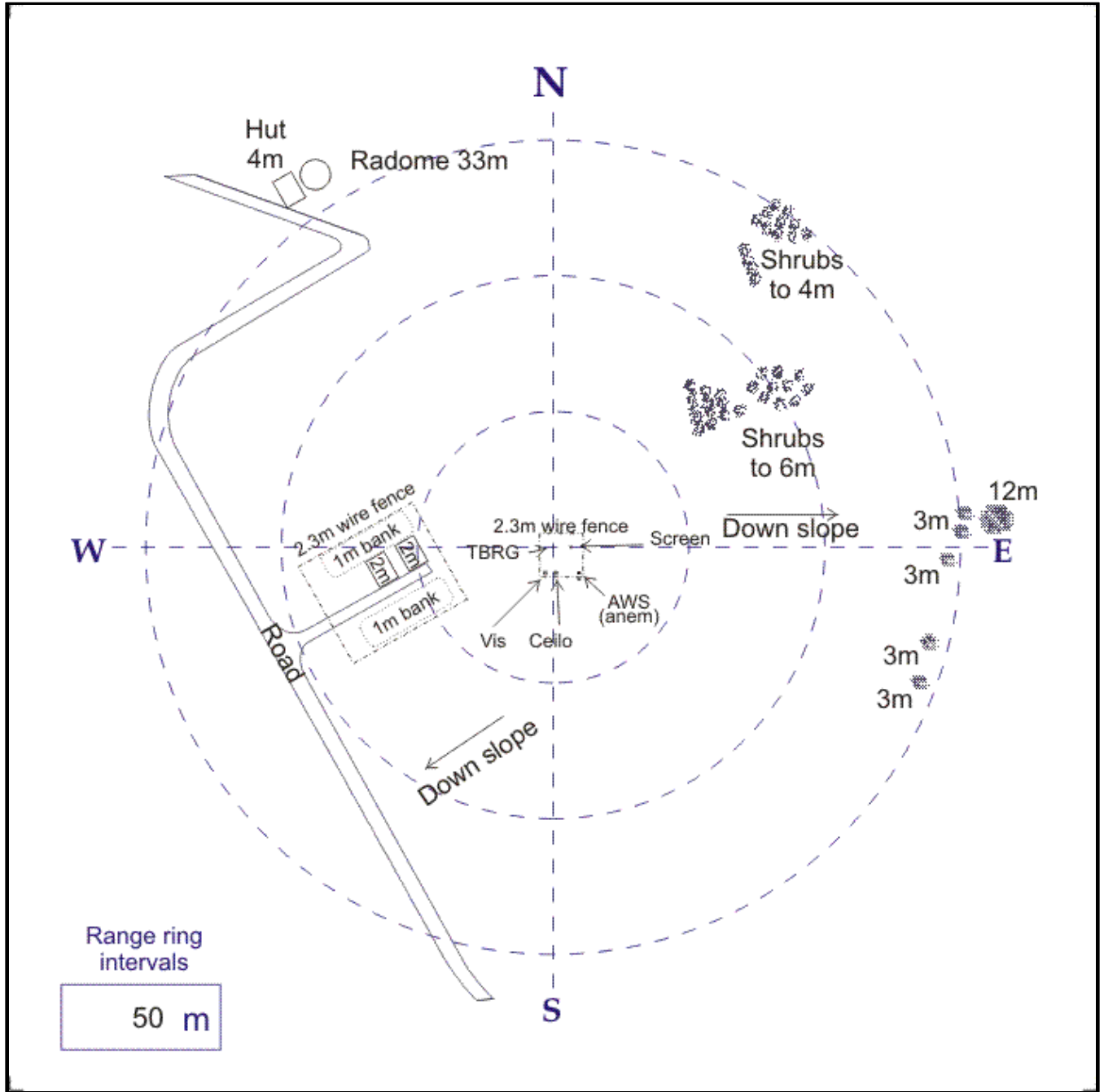
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Instrument Location and Surrounding Features

06/11/2009



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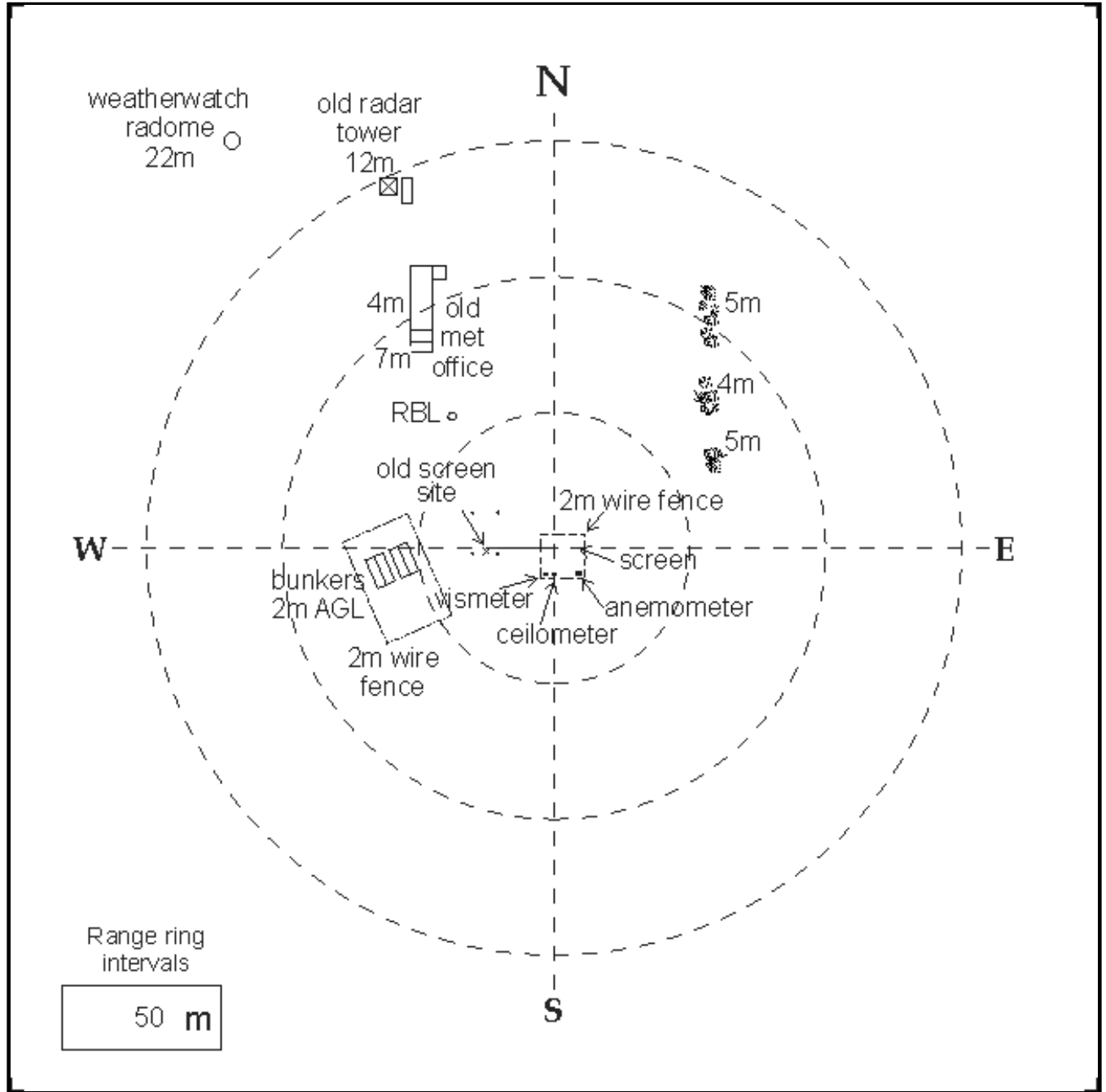
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Instrument Location and Surrounding Features

20/10/2004



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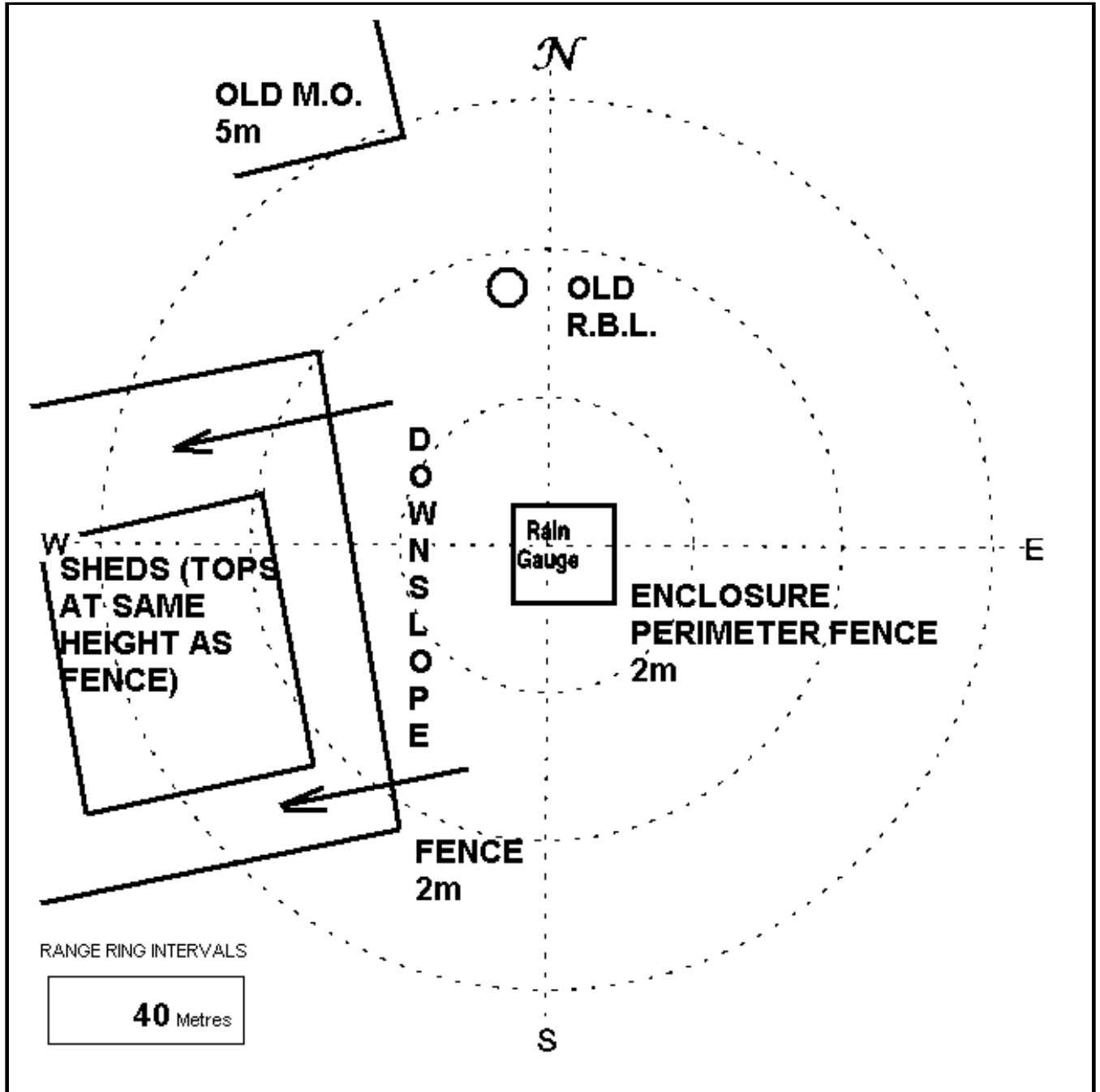
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Instrument Location and Surrounding Features

15/10/2002



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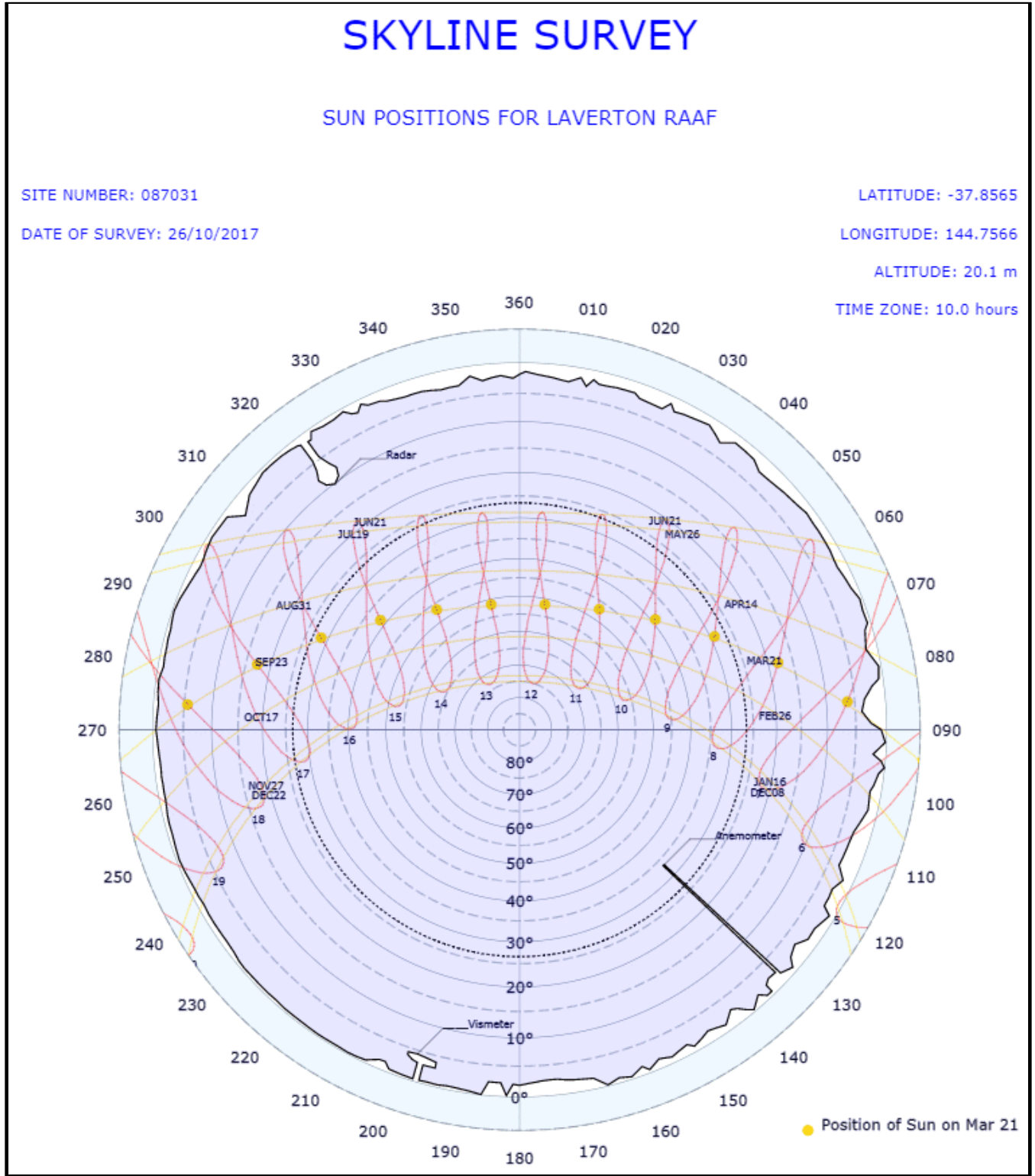
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Latitude: -37.8565	Longitude: 144.7566	Elevation: 20.1 m
	Barometer Elev: 20.4 m	Opened: 01 Jan 1941
		Current Status: Still open
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Skyline Diagram

26/10/2017(most recent)



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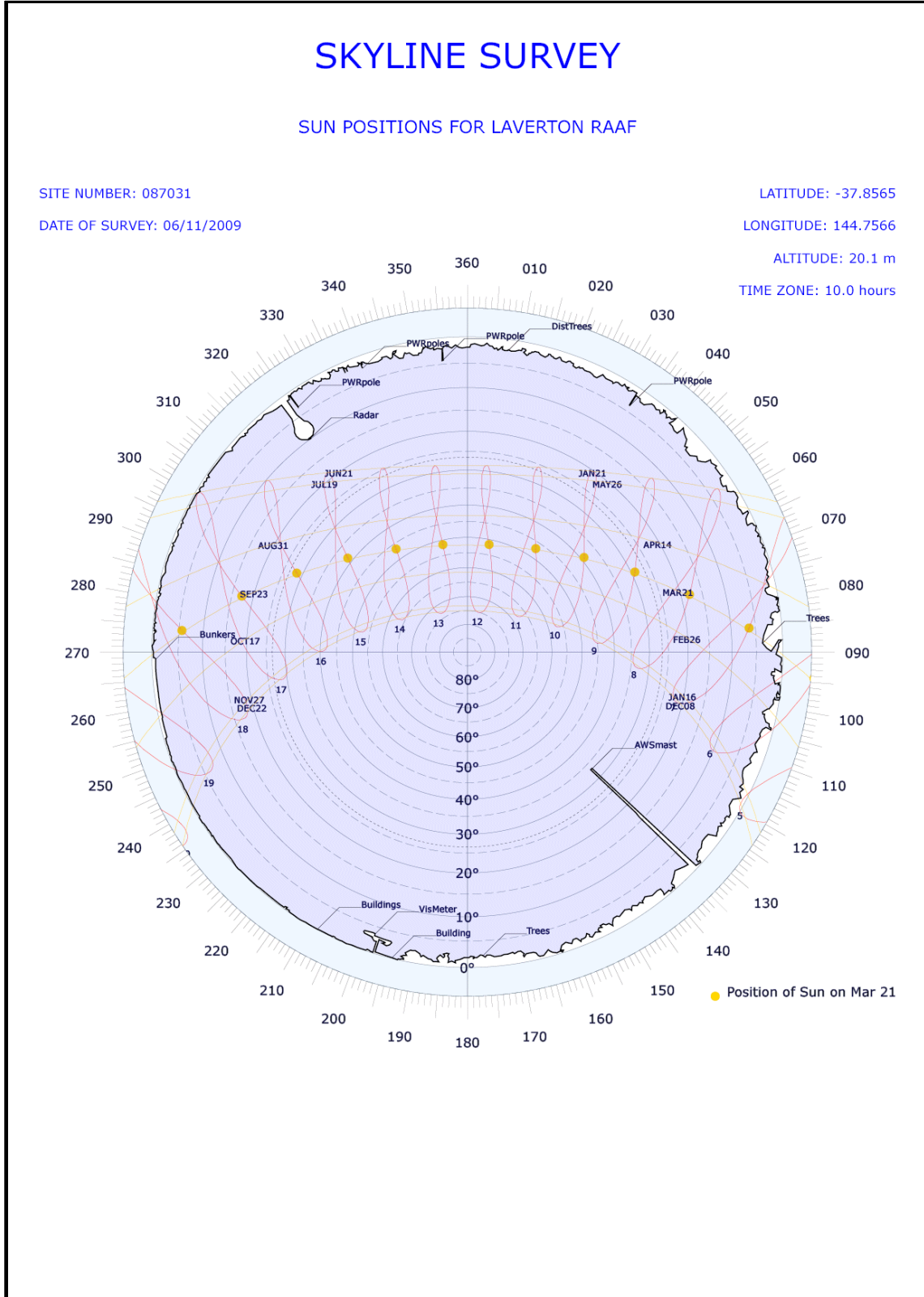


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Skyline Diagram 06/11/2009



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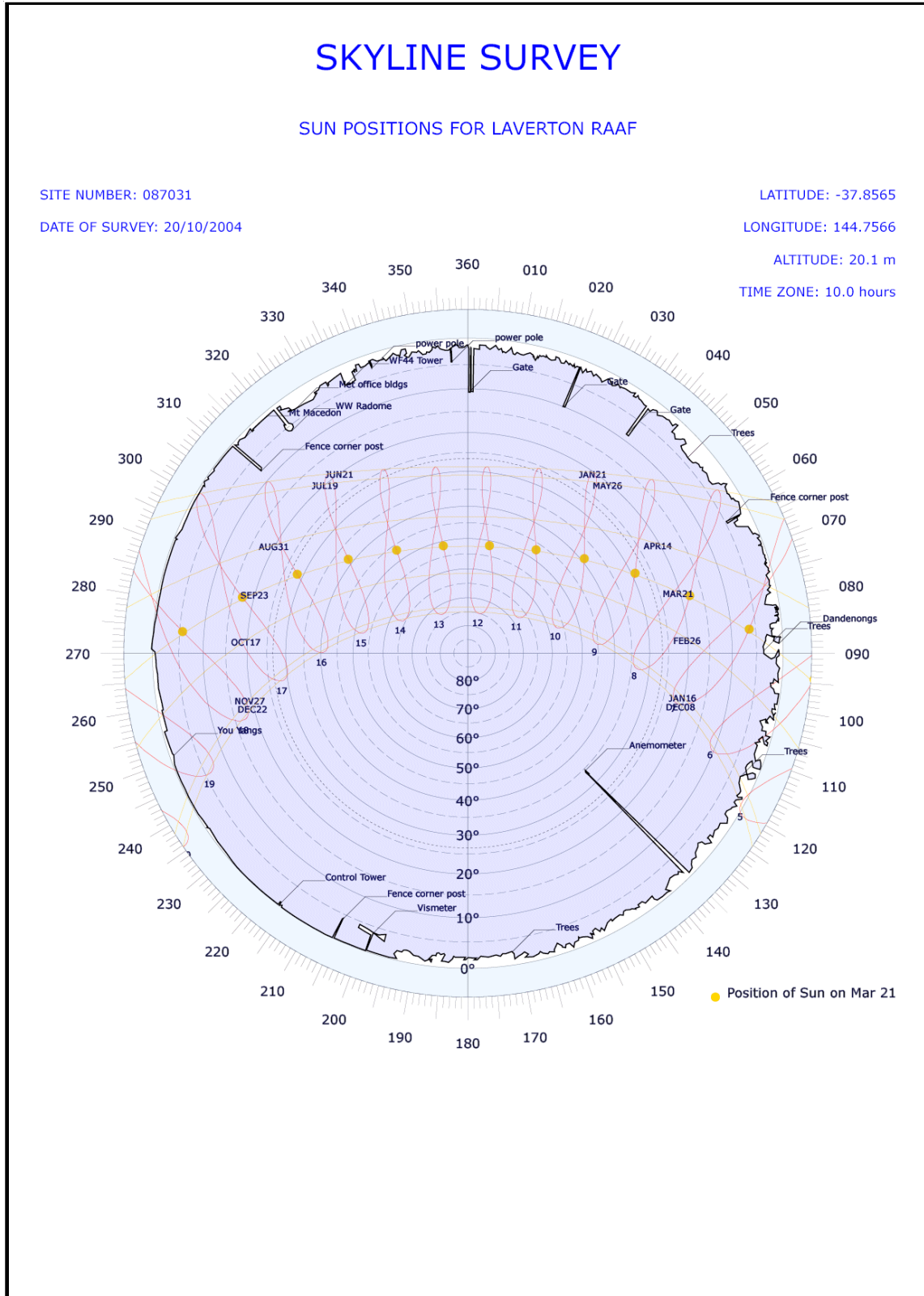


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Skyline Diagram 20/10/2004



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Station Observation Program Summary (Surface Observations) from 01/06/1941 to 15/08/1999

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	Y	Y

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

Station Observation Program Summary (Surface Observations) from 15/08/1999 to 07/12/2001

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) 28 JUL 2018 (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	-	-	-	-	-	-	-	-

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Station Equipment History

Equipment Install/Remove

Cloud Height

09/NOV/2000 INSTALL Ceilometer (Type Vaisala CT25K S/N - Unknown) Surface Observations
 03/JUL/2007 REPLACE Ceilometer (Now Vaisala CT25K S/N - A50403) Surface Observations
 29/SEP/2009 REPLACE Ceilometer (Now Vaisala CT25K S/N - C07403) Surface Observations
 23/NOV/2005 REPLACE Ceilometer (Now Vaisala CT25K S/N - U14503) Surface Observations
 08/FEB/2011 REPLACE Ceilometer (Now Vaisala CT25K S/N - W09410) Surface Observations
 01/JAN/1946 INSTALL Cloud Base Searchlight (Type 90 Degree S/N - Unknown) Surface Observations
 15/AUG/1999 REMOVE Cloud Base Searchlight (Type 90 Degree S/N - Unknown) Surface Observations

River Height (No Electronic History)

Wind Run

01/JAN/1976 INSTALL Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations
 15/AUG/1999 REMOVE Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations

Spectral Radiation (No Electronic History)

Sea Surface Temperature (No Electronic History)

Sea Water Temperature (No Electronic History)

Evaporation

01/JAN/1976 INSTALL Evaporation Pan (Type Class A S/N - Unknown) Surface Observations
 15/AUG/1999 REMOVE Evaporation Pan (Type Class A S/N - Unknown) Surface Observations

Minimum Temperature

01/JUN/1941 INSTALL Thermometer, Alcohol, Min (Type Unknown S/N - Unknown) Surface Observations
 15/AUG/1999 REMOVE Thermometer, Alcohol, Min (Type Unknown S/N - Unknown) Surface Observations

Soil Temperature 50cm (No Electronic History)

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Maximum Temperature

01/JUN/1941 INSTALL Thermometer, Mercury, Max (Type Unknown S/N - Unknown) Surface Observations
 15/AUG/1999 REMOVE Thermometer, Mercury, Max (Type Unknown S/N - Unknown) Surface Observations

Soil Temperature 20cm (No Electronic History)

Solar Radiation (No Electronic History)

Soil Temperature 5cm (No Electronic History)

Oxygen Content (No Electronic History)

Sea Water Level (No Electronic History)

Surface Inclination (No Electronic History)

Terrestrial Minimum Temperature

01/SEP/1959 INSTALL Thermometer, Terrestrial, Min (Type Unknown S/N - Unknown) Surface Observations
 15/AUG/1999 REMOVE Thermometer, Terrestrial, Min (Type Unknown S/N - Unknown) Surface Observations

Visibility

26/OCT/2000 INSTALL Visibility Meter (Type Vaisala FD12 S/N - V18101) Surface Observations

Solar Radiation (Direct) (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

22/FEB/1997 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 72854) Surface Observations
 22/FEB/1997 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 72635) Surface Observations

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

- 22/FEB/1997 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - Unknown) Infrastructure
- 01/JAN/1976 INSTALL Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations
- 15/AUG/1999 REMOVE Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations
- 03/MAR/2011 REPLACE Anemometer (Now Synchronac Cups - Type 732 S/N - 96874) Surface Observations

Air Temperature

- 20/AUG/1999 INSTALL Humidity Probe (Type Rotronics S/N - 8862003) Surface Observations
- 16/APR/2002 REPLACE Humidity Probe (Now Rotronics MP101A-T4-W4W S/N - 19522-018) Surface Observations
- 11/APR/2002 REPLACE Humidity Probe (Now Rotronics S/N - 11450 007) Surface Observations
- 22/FEB/1997 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 8830) Surface Observations
- 01/JUN/1941 INSTALL Thermometer, Mercury, Dry Bulb (Type Unknown S/N - Unknown) Surface Observations
- 15/AUG/1999 REMOVE Thermometer, Mercury, Dry Bulb (Type Unknown S/N - Unknown) Surface Observations

Wet Bulb Temperature

- 22/FEB/1997 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - Unknown) Surface Observations
- 20/AUG/1999 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - Unknown) Surface Observations

Lightning (No Electronic History)

Turbidity (No Electronic History)

Total Column Ozone Amount (No Electronic History)

Pressure

- 01/JUL/1951 INSTALL Barometer (Type Unknown S/N - Unknown) Surface Observations
- 22/FEB/1997 INSTALL Barometer (Type Vaisala PA11A S/N - 561164) Surface Observations
- 22/FEB/1997 REMOVE Barometer (Type Vaisala PA11A S/N - 561164) Surface Observations
- 01/JAN/1994 REPLACE Barometer (Now Kew pattern mercury S/N - 1972) Surface Observations
- 17/SEP/1993 REPLACE Barometer (Now Kew pattern mercury S/N - 2002) Surface Observations
- 01/FEB/1994 REPLACE Barometer (Now Vaisala PA11A S/N - 561164) Surface Observations
- 10/OCT/2007 REPLACE Barometer (Now Vaisala PTB220B S/N - W4920017) Surface Observations
- 19/SEP/2013 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - G2330014) Surface Observations

Humidity

- 20/AUG/1999 INSTALL Humidity Probe (Type Rotronics S/N - 8862003) Surface Observations
- 16/APR/2002 REPLACE Humidity Probe (Now Rotronics MP101A-T4-W4W S/N - 19522-018) Surface Observations
- 11/APR/2002 REPLACE Humidity Probe (Now Rotronics S/N - 11450 007) Surface Observations

Sunshine Hours

- 01/JAN/1967 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - Unknown) Surface Observations
- 15/AUG/1999 REMOVE Sunshine Recorder (Type Campbell-Stokes S/N - Unknown) Surface Observations

Pressure Trend

- 01/JUN/1941 INSTALL Barograph (Type Unknown S/N - Unknown) Surface Observations
- 15/AUG/1999 REMOVE Barograph (Type Unknown S/N - Unknown) Surface Observations

Snow Height (No Electronic History)

Wind Speed

- 22/FEB/1997 INSTALL Anemometer (Type Synchronac Cups - Type 732 S/N - 72854) Surface Observations
- 22/FEB/1997 INSTALL Anemometer (Type Synchronac Vane - Type 706 S/N - 72635) Surface Observations
- 22/FEB/1997 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - Unknown) Infrastructure
- 01/JAN/1976 INSTALL Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations
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Extended Climatological Station Metadata

All History

Station: LAVERTON RAAF	Location: LAVERTON RAAF			State: VIC
Bureau No.: 087031	WMO No.: 94865	Aviation ID: YLVT	Opened: 01 Jan 1941	Current Status: Still open
Latitude: -37.8565	Longitude: 144.7566	Elevation: 20.1 m	Barometer Elev: 20.4 m	Metadata compiled: 28 JUL 2018

Station Equipment History (continued)

Equipment Install/Remove(Continued)

03/MAR/2011 REPLACE Anemometer (Now Synchronac Cups - Type 732 S/N - 96874) Surface Observations

Rainfall

- 01/MAR/1965 INSTALL Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
- 06/APR/1996 REMOVE Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
- 01/JUN/1941 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations
- 12/MAR/1996 INSTALL Raingauge (Type HS TB3A-0.2 S/N - 94-204) Rainfall Intensity
- 22/FEB/1997 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - 492) Surface Observations
- 15/AUG/1999 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations
- 16/AUG/1999 REMOVE Raingauge (Type HS TB3A-0.2 S/N - 94-204) Rainfall Intensity
- 09/OCT/2015 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 82466) Surface Observations

Soil Temperature 100cm (No Electronic History)

Soil Temperature 10cm (No Electronic History)

Solar Radiation (Long Wave) (No Electronic History)

RF Reflectivity

- 31/AUG/1993 INSTALL Equipment Shelter (Type Radar - Modified Container S/N - Unknown) Infrastructure
- 02/OCT/2007 INSTALL Equipment Shelter (Type Radar - Purpose Built Building S/N - Unknown) Infrastructure
- 01/JUL/1953 INSTALL Radar (Type 277F S/N - Unknown) Upper Air
- 01/JUL/1953 INSTALL Radar (Type 277F S/N - Unknown) WeatherWatch
- 02/OCT/2007 INSTALL Radar (Type M1500-S1 S/N - VLV281-1185224) WeatherWatch
- 01/AUG/1964 INSTALL Radar (Type WF2 S/N - Unknown) Upper Air
- 01/FEB/1976 INSTALL Radar (Type WF44 S/N - Unknown) Upper Air
- 01/FEB/1976 INSTALL Radar (Type WF44 S/N - Unknown) WeatherWatch
- 31/AUG/1993 INSTALL Radar (Type WSR74C S/N - Unknown) WeatherWatch
- 26/MAR/1997 INSTALL Radar Interface (Type BOM S/N - Unknown) Upper Air
- 02/OCT/2007 INSTALL Radar Tower (Type Cylindrical Spiral Staircase S1 - 20m S/N - Unknown) Infrastructure
- 31/AUG/1993 INSTALL Radar Tower (Type Cylindrical WSR74 - 15.75 m S/N - Unknown) Infrastructure
- 01/APR/1966 INSTALL Radar Tower (Type Lattice WF44 - 18 ft S/N - Unknown) Infrastructure
- 01/FEB/1976 INSTALL Radar Tower (Type Lattice WF44 - 30 ft S/N - Unknown) Infrastructure
- 16/OCT/2003 INSTALL WW Radar Interface (Type BOM S/N - Unknown) WeatherWatch
- 27/JAN/2007 REMOVE Equipment Shelter (Type Radar - Modified Container S/N - Unknown) Infrastructure
- 13/SEP/1993 REMOVE Radar (Type WF2 S/N - Unknown) Upper Air
- 01/OCT/1979 REMOVE Radar (Type WF44 S/N - P0001) Upper Air
- 01/OCT/1979 REMOVE Radar (Type WF44 S/N - P0001) WeatherWatch
- 03/NOV/1999 REMOVE Radar (Type WF44 S/N - Unknown) Upper Air
- 03/NOV/1999 REMOVE Radar (Type WF44 S/N - Unknown) WeatherWatch
- 22/JAN/2007 REMOVE Radar (Type WSR74C S/N - Unknown) WeatherWatch
- 03/NOV/1999 REMOVE Radar Interface (Type BOM S/N - Unknown) Upper Air
- 27/JAN/2007 REMOVE Radar Tower (Type Cylindrical WSR74 - 15.75 m S/N - Unknown) Infrastructure
- 01/OCT/1979 REMOVE Radar Tower (Type Lattice WF44 - 18 ft S/N - Unknown) Infrastructure
- 27/JAN/2007 REMOVE Radar Tower (Type Lattice WF44 - 30 ft S/N - Unknown) Infrastructure
- 22/JAN/2007 REMOVE WW Radar Interface (Type BOM S/N - Unknown) WeatherWatch
- 01/APR/1966 REPLACE Radar (Now WF44 S/N - P0001) Upper Air
- 01/APR/1966 REPLACE Radar (Now WF44 S/N - P0001) WeatherWatch

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Extended Climatological Station Metadata

All History

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Bureau No.: 087031	WMO No.: 94865	Aviation ID: YLVT	Opened: 01 Jan 1941	Current Status: Still open
Latitude: -37.8565	Longitude: 144.7566	Elevation: 20.1 m	Barometer Elev: 20.4 m	Metadata compiled: 28 JUL 2018

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
09/NOV/2000 - 26/OCT/2017	Cloud Height	2
26/OCT/2000 - 26/OCT/2017	Visibility	3
03/JUL/1997 - 26/OCT/2017	Wind Direction	1
30/JUN/1997 - 26/OCT/2017	Air Temperature	3
30/JUN/1997 - 23/FEB/1999	Wet Bulb Temperature	0
03/JUL/1997 - 26/OCT/2017	Pressure	4
20/AUG/1999 - 26/OCT/2017	Humidity	3
03/JUL/1997 - 26/OCT/2017	Wind Speed	1
03/JUL/1997 - 26/OCT/2017	Rainfall	4
01/NOV/2000 - 19/OCT/2017	RF Reflectivity	2

Station Detail Changes

01/JUL/2011	CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT)
01/SEP/2002	CLASSIFICATION CLIMAT Stations (CLC)
22/FEB/1997	CLASSIFICATION Climate (FCL)
01/JUL/1998	CLASSIFICATION Information and Observations (MIO) ENDED 15-08-1999
05/OCT/2001	CLASSIFICATION National Benchmark Network for Agrometeorology (NBNA)
01/JUL/2017	CLASSIFICATION Observing Operations Hub - Melbourne (OOH-M)
21/MAR/2016	CLASSIFICATION Processed by ASOS (PBA)
01/SEP/1992	CLASSIFICATION Reference Climate Stations (RCS) ENDED 30-06-2011
14/FEB/1997	CLASSIFICATION Regional Basic Synoptic Network (RBSN) ENDED 04-05-2000
01/JAN/1941	CLASSIFICATION Restricted Images (XIMG)
10/JAN/2011	CLASSIFICATION Standard (ASOSSTD)
22/MAY/2014	OBJECT Document/CEILOMETER STATUS
28/JUN/2016	OBJECT Document/CEILOMETER STATUS
12/JUN/2012	OBJECT Document/CEILOMETER STATUS
07/JUN/2012	OBJECT Document/CEILOMETER STATUS
20/MAR/2013	OBJECT Document/CEILOMETER STATUS
02/DEC/2014	OBJECT Document/CEILOMETER STATUS
19/SEP/2013	OBJECT Document/CEILOMETER STATUS
23/NOV/2011	OBJECT Document/CEILOMETER STATUS
03/APR/2012	OBJECT Document/CEILOMETER STATUS
01/AUG/2006	OBJECT Document/SITE LEASE
06/NOV/2009	OBJECT Document/SKYLINE DATA
20/OCT/2004	OBJECT Document/SKYLINE DATA
26/OCT/2017	OBJECT Document/SKYLINE DATA
05/FEB/2007	OBJECT Document/SKYLINE DATA - RADAR
22/MAY/2014	OBJECT Document/VISIBILITY METER STATUS
28/JUN/2016	OBJECT Document/VISIBILITY METER STATUS

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Extended Climatological Station Metadata

All History

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Bureau No.: 087031	WMO No.: 94865	Aviation ID: YLVT	Opened: 01 Jan 1941	Current Status: Still open
Latitude: -37.8565	Longitude: 144.7566	Elevation: 20.1 m	Barometer Elev: 20.4 m	Metadata compiled: 28 JUL 2018

Station Equipment History (continued)

Station Detail Changes(Continued)

07/JUN/2012 OBJECT Document/VISIBILITY METER STATUS
 20/MAR/2013 OBJECT Document/VISIBILITY METER STATUS
 19/SEP/2013 OBJECT Document/VISIBILITY METER STATUS
 02/DEC/2014 OBJECT Document/VISIBILITY METER STATUS
 13/SEP/2012 OBJECT Document/VISIBILITY METER STATUS
 26/OCT/2017 OBJECT Document/VISIBILITY METER STATUS
 23/NOV/2011 OBJECT Document/VISIBILITY METER STATUS
 03/APR/2012 OBJECT Document/VISIBILITY METER STATUS
 01/JAN/1941 STATION - (nondb seeding) Opened
 01/JAN/1941 STATION - (nondb seeding) aero_ht Changed to 18
 01/JAN/1941 STATION - (nondb seeding) bar_ht Changed to 21
 01/JAN/1941 STATION - (nondb seeding) bar_ht_deriv Changed to MAP 1:250 000
 01/JAN/1941 STATION - (nondb seeding) name Changed to LAVERTON RAAF
 01/JAN/1941 STATION - (nondb seeding) wmo_num Changed to 94865
 01/JAN/1941 STATION aviation_id Changed to YLVT
 29/OCT/1998 STATION bar_ht Changed to 20.42
 29/OCT/1998 STATION bar_ht_deriv Changed to SURVEY
 01/JAN/1941 STATION latitude Changed to -37.8565WGS-84
 01/JAN/1941 STATION latlon_deriv Changed to SURVEY
 01/JAN/1941 STATION latlon_error Changed to 10
 01/JAN/1941 STATION longitude Changed to 144.7566WGS-84
 15/OCT/2002 STATION lu_0_100m Changed to Airport
 22/NOV/2011 STATION lu_0_100m Changed to Open farmland, grassland or tundra
 15/OCT/2002 STATION lu_100m_1km Changed to Airport
 22/NOV/2011 STATION lu_100m_1km Changed to City area, buildings < 10 metres (3 storey)
 15/OCT/2002 STATION lu_1km_10km Changed to City area, buildings < 10 metres (3 storey)
 15/OCT/2002 STATION soil_type Changed to black soil
 01/JAN/1941 STATION stn_ht Changed to 20.1
 01/JAN/1941 STATION stn_ht_deriv Changed to SURVEY
 15/OCT/2002 STATION surface_type Changed to fully covered by grass

System Changes

01/JUN/1941 SYSTEM Infrastructure Commenced
 16/AUG/1999 SYSTEM Rainfall Intensity Ceased
 01/MAR/1965 SYSTEM Rainfall Intensity Commenced
 01/JUN/1941 SYSTEM Surface Observations Commenced
 03/NOV/1999 SYSTEM Upper Air Ceased
 01/JAN/1943 SYSTEM Upper Air Commenced
 01/JUL/1953 SYSTEM WeatherWatch Commenced

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Notes on these metadata

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

Reliability of the metadata

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

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

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

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

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

Station Number

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

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

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Notes on these metadata

Network Classification

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

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

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Notes on these metadata

Network Classification Continued....

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

Station Purpose

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

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

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

Station Observation Program Summary

Surface Observations

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

Set a)

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

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Notes on these metadata

Surface observations continued....

Set b)

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

Current Station Equipment Summary

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

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

Station Equipment History

Equipment Install/Remove

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

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

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

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

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

Unshare - The instrument is no longer shared between systems

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Notes on these metadata

Calibration

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

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

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

Station Detail Changes

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

- STATION

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

Station position

- Latitude and longitude

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

- Height

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

Heights which may appear in these metadata are:

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

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Notes on these metadata

- Land Use

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

Defined Land use Types.

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

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

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

Defined Soil Type (At Enclosure).

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

Surface Type (At Enclosure).

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

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