



Basic Climatological Station Metadata
Current status

Metadata compiled: 28 JUL 2025

Station: EAST SALE

Bureau of Meteorology station number: 085072
Bureau of Meteorology district name: West Gippsland
State: VIC

World Meteorological Organization number: 94907
Identification: EASL

Network Classification: CLIMAT Stations, GCOS Surface Network, National
Benchmark Network for Agrometeorology, Regional Basic
Synoptic Network

Station purpose: Synoptic, Upper Air, Aeronautical

Automatic Weather Station: Almos



Current Station Location				
Latitude	Decimal	-38.1156	Hour Min Sec	38°6'56"S
Longitude	Decimal	147.1323	Hour Min Sec	147°7'56"E
Station Height	4.6 m	Barometer Height	8.2 m	
Method of station geographic positioning			GPS	

Year opened: 1943
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.



Basic Climatological Station Metadata
Current status

Station: EAST SALE			Location: EAST SALE			State: VIC			
Bureau No.:	085072	WMO No.:	94907	Aviation ID:	EASL	Opened:	22 Apr 1943	Current Status:	Still open
Latitude:	-38.1156	Longitude:	147.1323	Elevation:	4.6 m	Barometer Elev:	8.2 m	Metadata compiled:	28 JUL 2025

Observation summary

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



DAILY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
EVAPORATION	FEB 1971	JAN 2015	99.4	87	0
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	FEB 1971	JUL 2011	98.6	194	0
GROUND MINIMUM TEMPERATURE	FEB 1960	APR 2014	98.3	256	2
MAXIMUM AIR TEMPERATURE	AUG 1945	JUN 2025	99.8	30	0
MAXIMUM WIND GUST SPEED	SEP 1951	SEP 2017	98.4	230	5
SUNSHINE HOURS	MAY 1950	JAN 2015	97.6	150	13
WIND RUN ABOVE 10 FEET	MAY 1996	SEP 2017	96.4	190	3
WIND RUN BELOW 10 FEET	FEB 1971	JAN 2015	98.8	192	0
RAINFALL	APR 1943	JUL 2025	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	APR 1943	JUN 2025	98.1	9.5	23	0
DEW POINT	DEC 1943	JUN 2025	89.9	9.8	12	83
MEAN SEA LEVEL PRESSURE	JUL 1951	SEP 2017	98.0	8.2	30	0
SOIL TEMPERATURE - 10cm	OCT 1969	JAN 2015	36.6	2.3	483	326
TOTAL CLOUD AMOUNT	APR 1943	SEP 2017	96.2	6.7	107	0
WIND SPEED	APR 1943	SEP 2017	97.9	8.1	46	0
UPPER AIR TEMPERATURE	MAY 2000	JUN 2000	5.7	1.5	57	0
UPPER AIR WIND SPEED	JAN 1950	AUG 2009	77.5	3.1	1949	15

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RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	MAY 1953	JUL 2016	87.6	2156	23

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	MAY 2000	JUL 2025	99.2	1428.7	N/A	1

HALF-HOURLY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	NOV 1993	JUL 2025	101.1	48.5	N/A	0

THERE ARE NO UPPER-AIR EDT DATA HOLDINGS

Holdings calculated up to 01 Jul 2025

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

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

Unlisted element

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

Listed element to use

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

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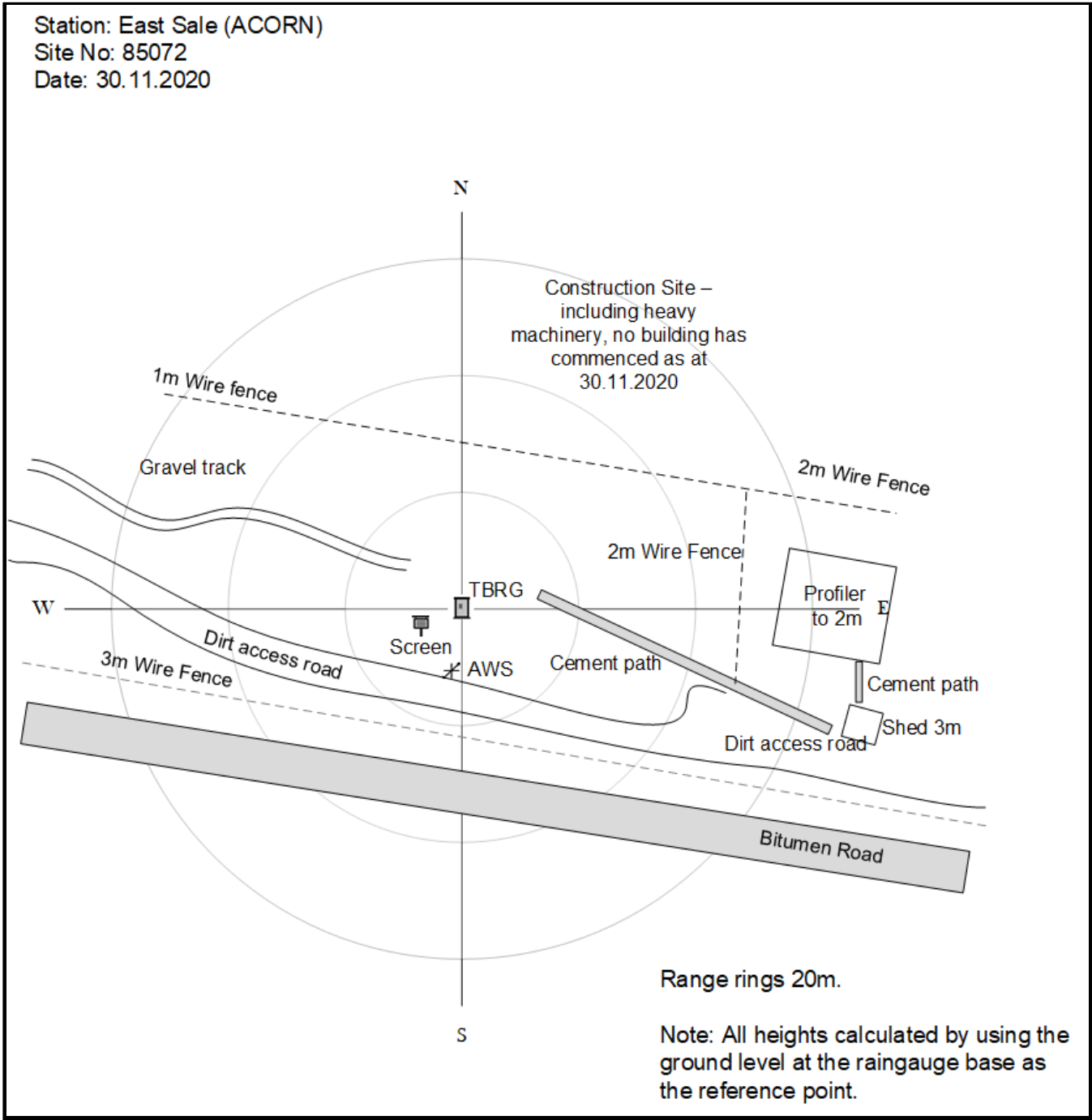
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

30/11/2020(most recent)



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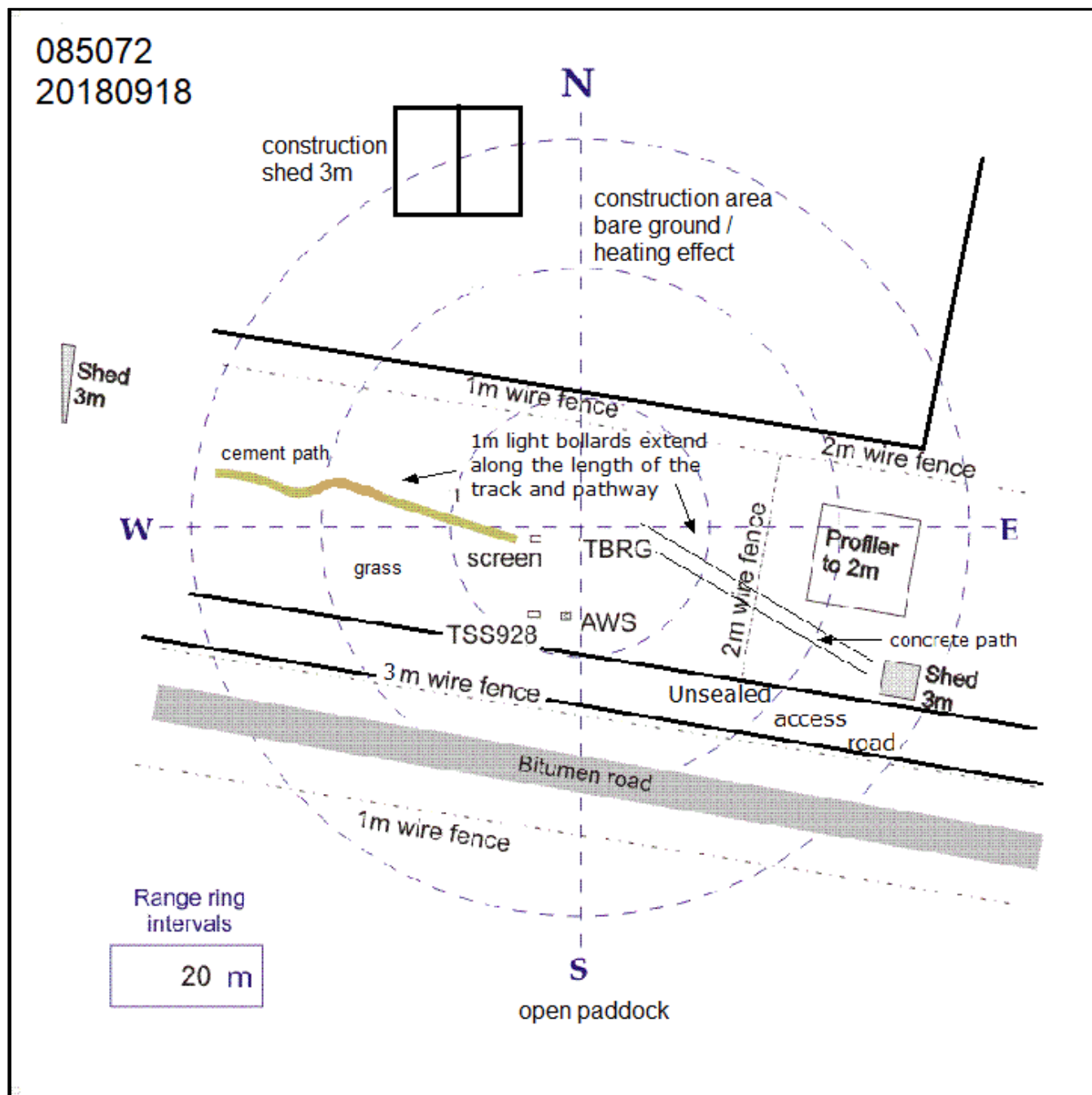
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

18/09/2019



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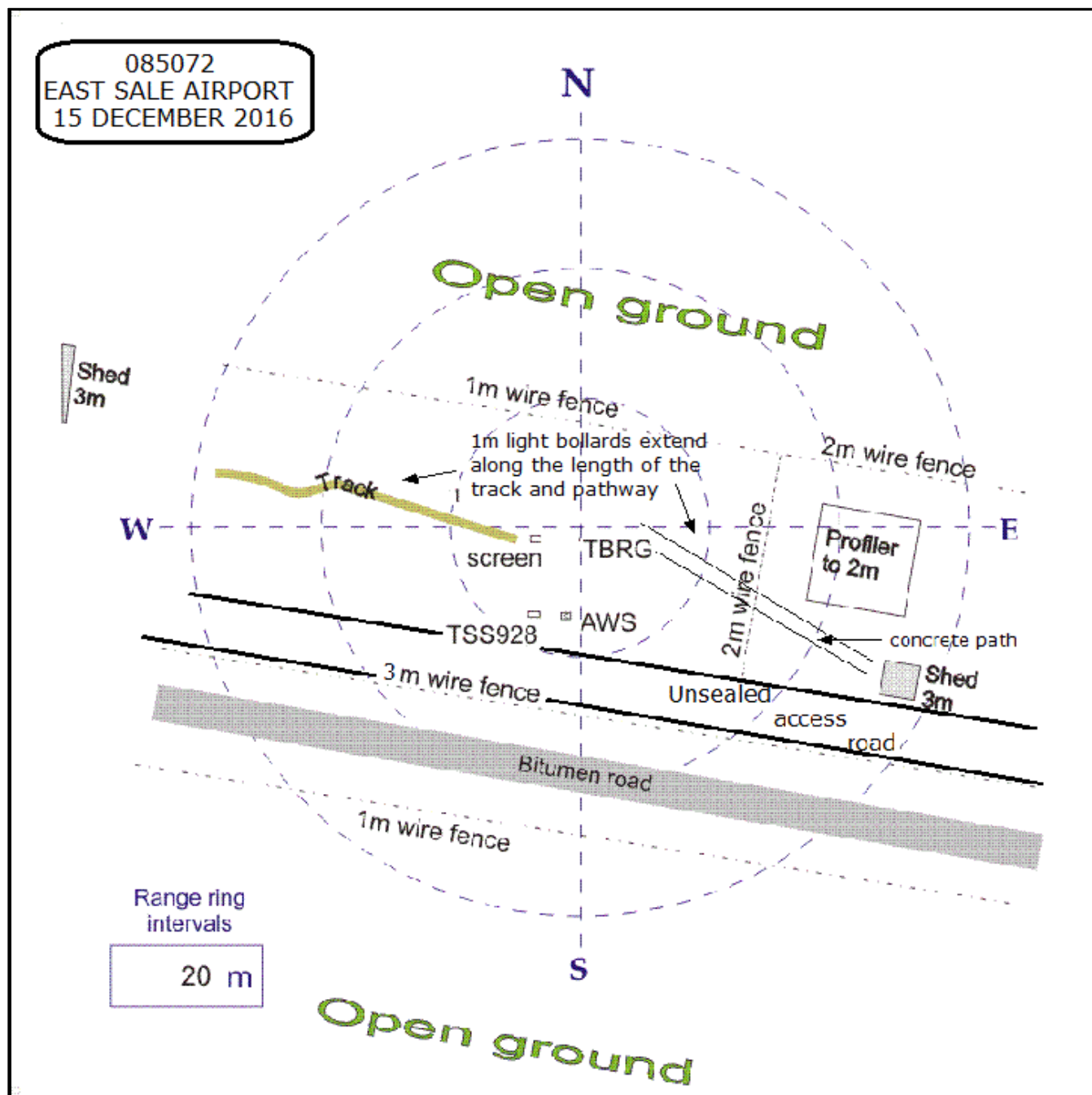
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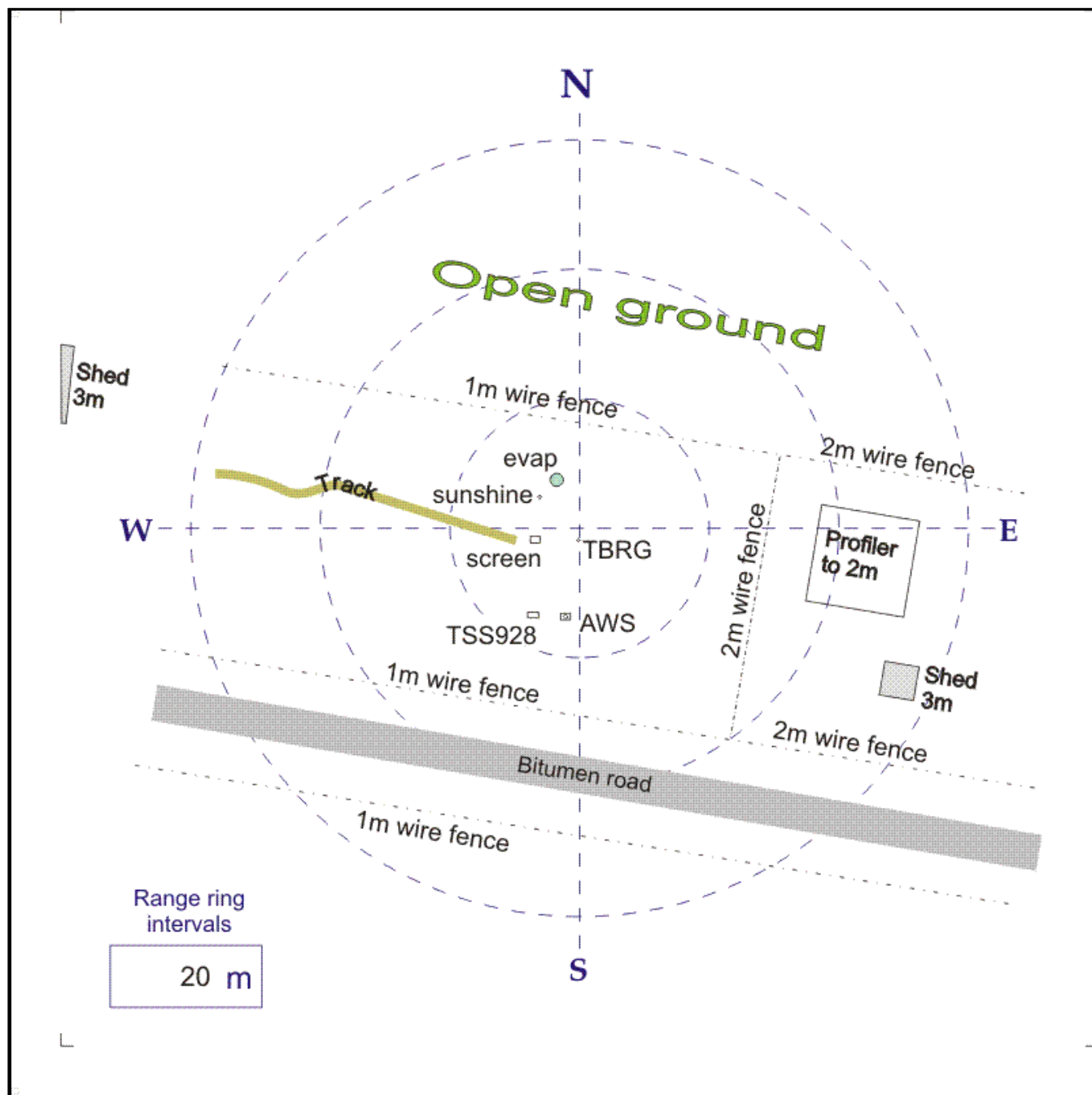
Extended Climatological Station Metadata

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Instrument Location and Surrounding Features

18/09/2013



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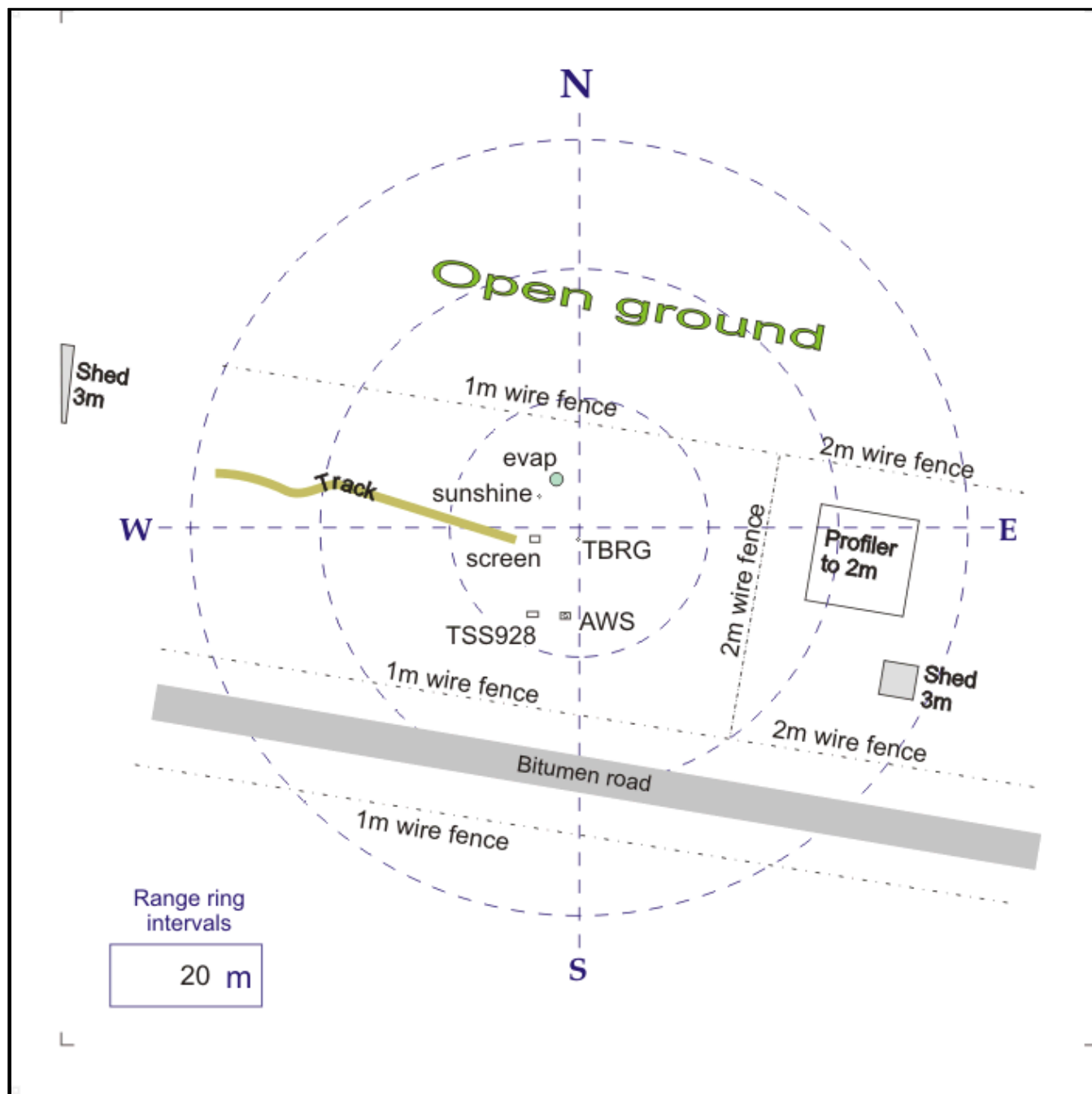
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

07/10/2011



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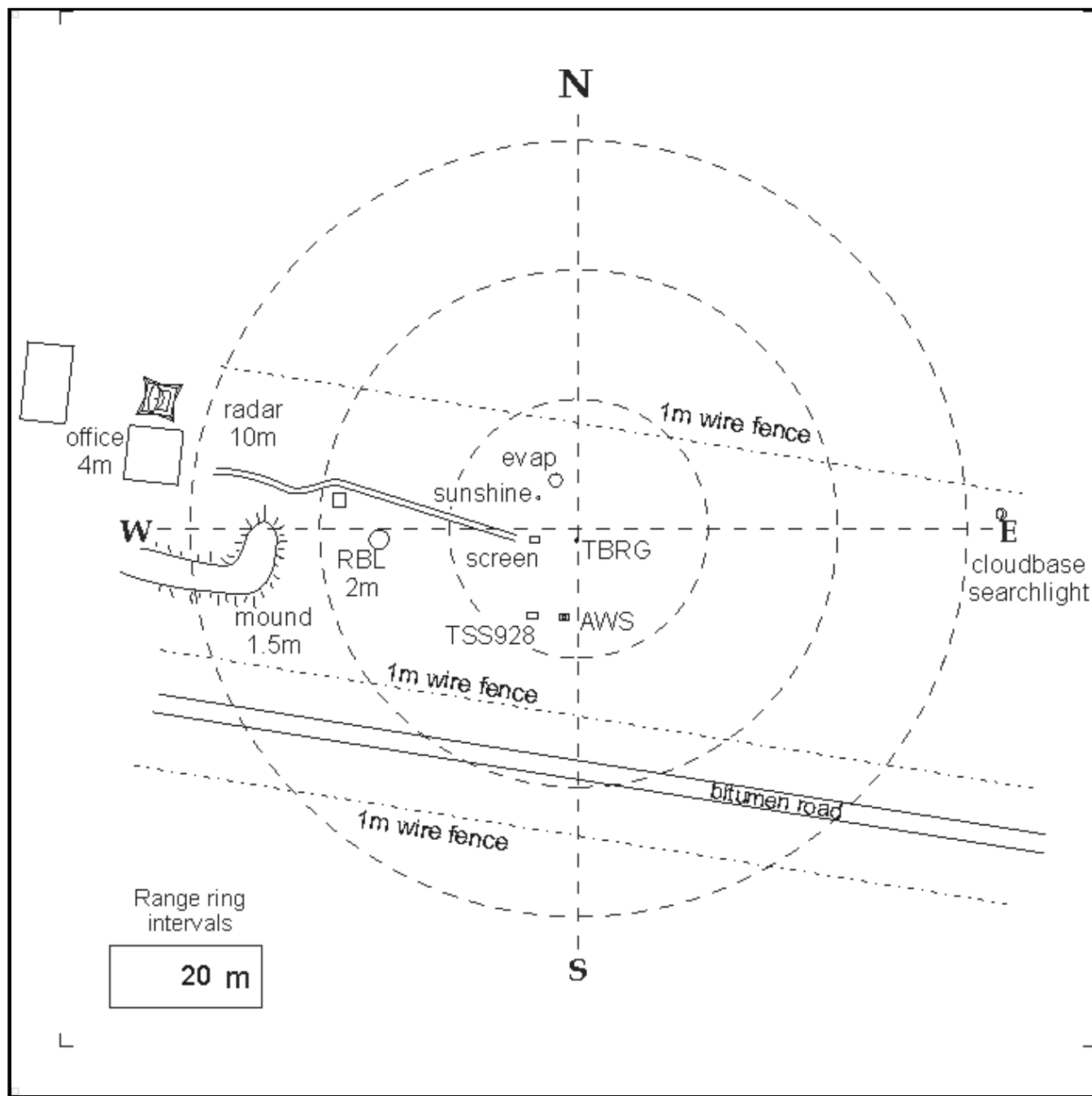
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Instrument Location and Surrounding Features

08/11/2007



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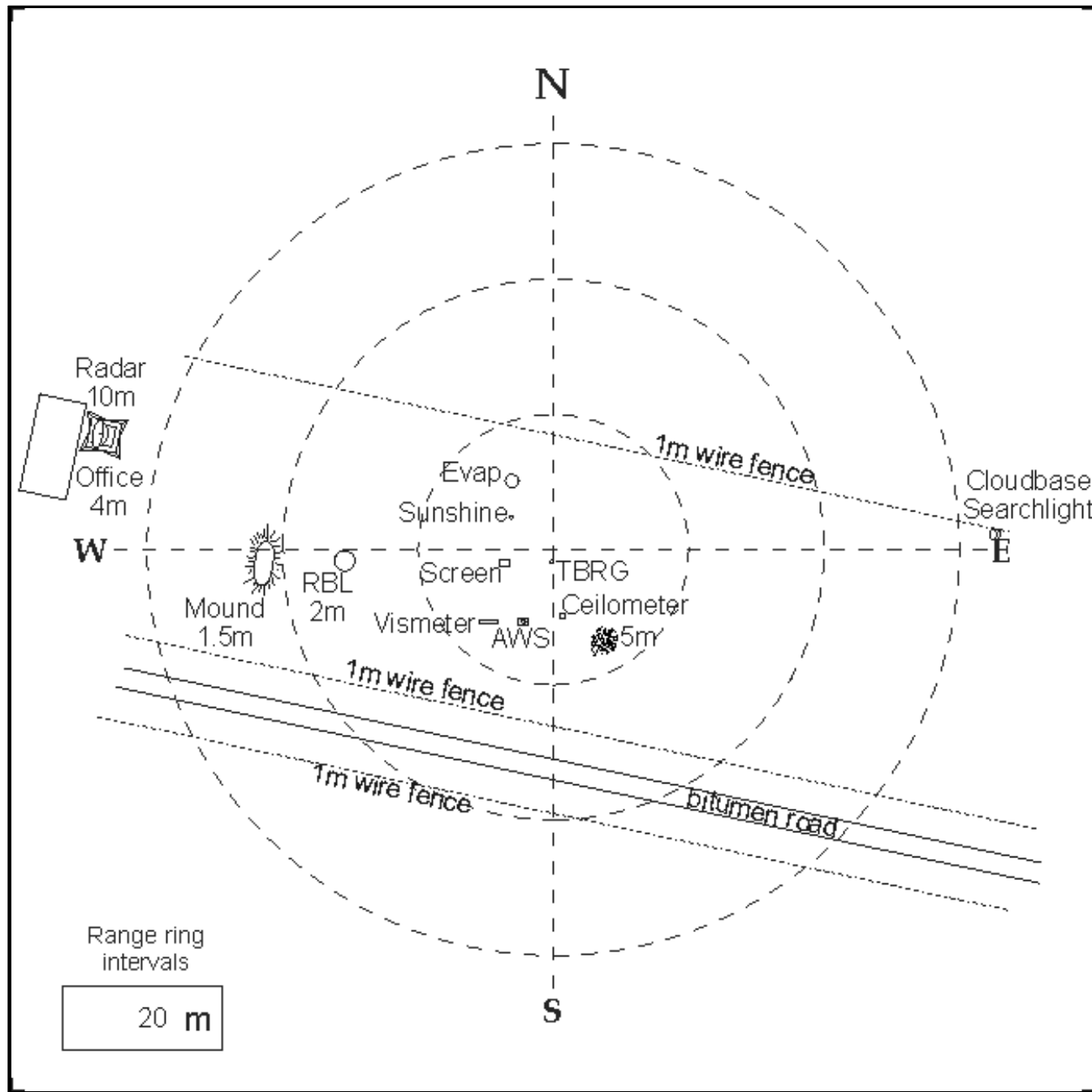
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Instrument Location and Surrounding Features

13/10/2003



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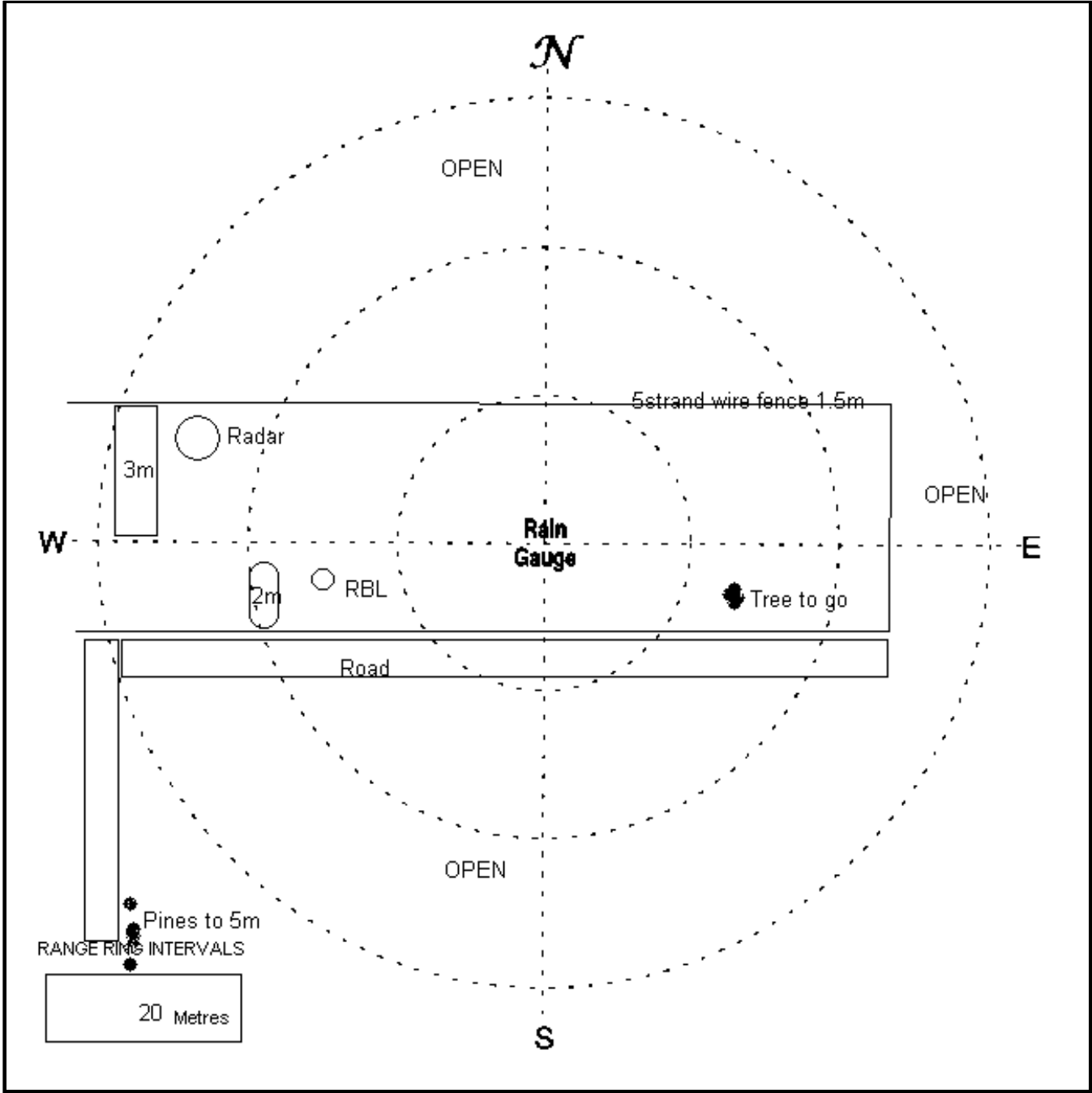
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Instrument Location and Surrounding Features
14/08/2002



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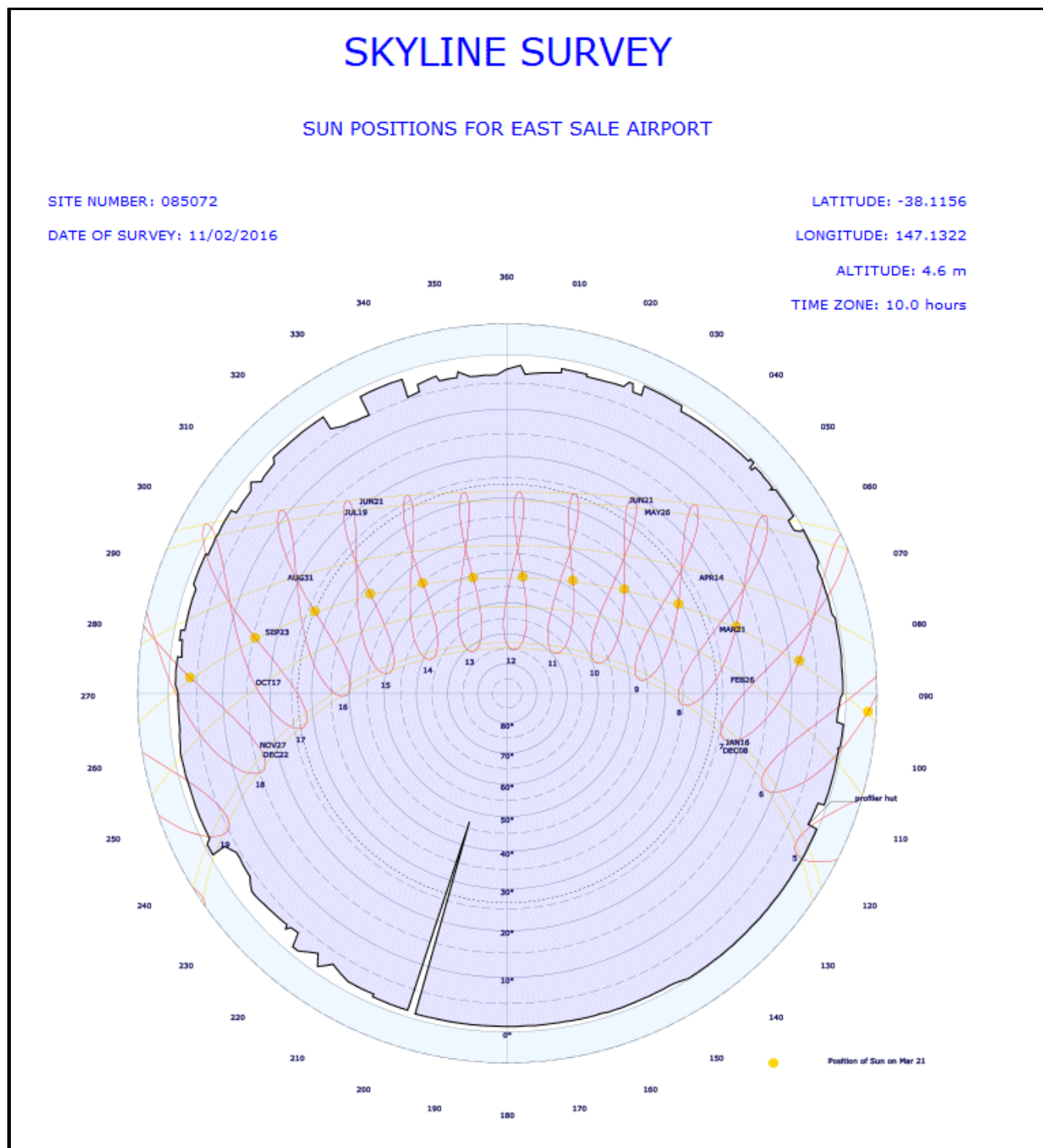
Extended Climatological Station Metadata

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Skyline Diagram

11/02/2016(most recent)



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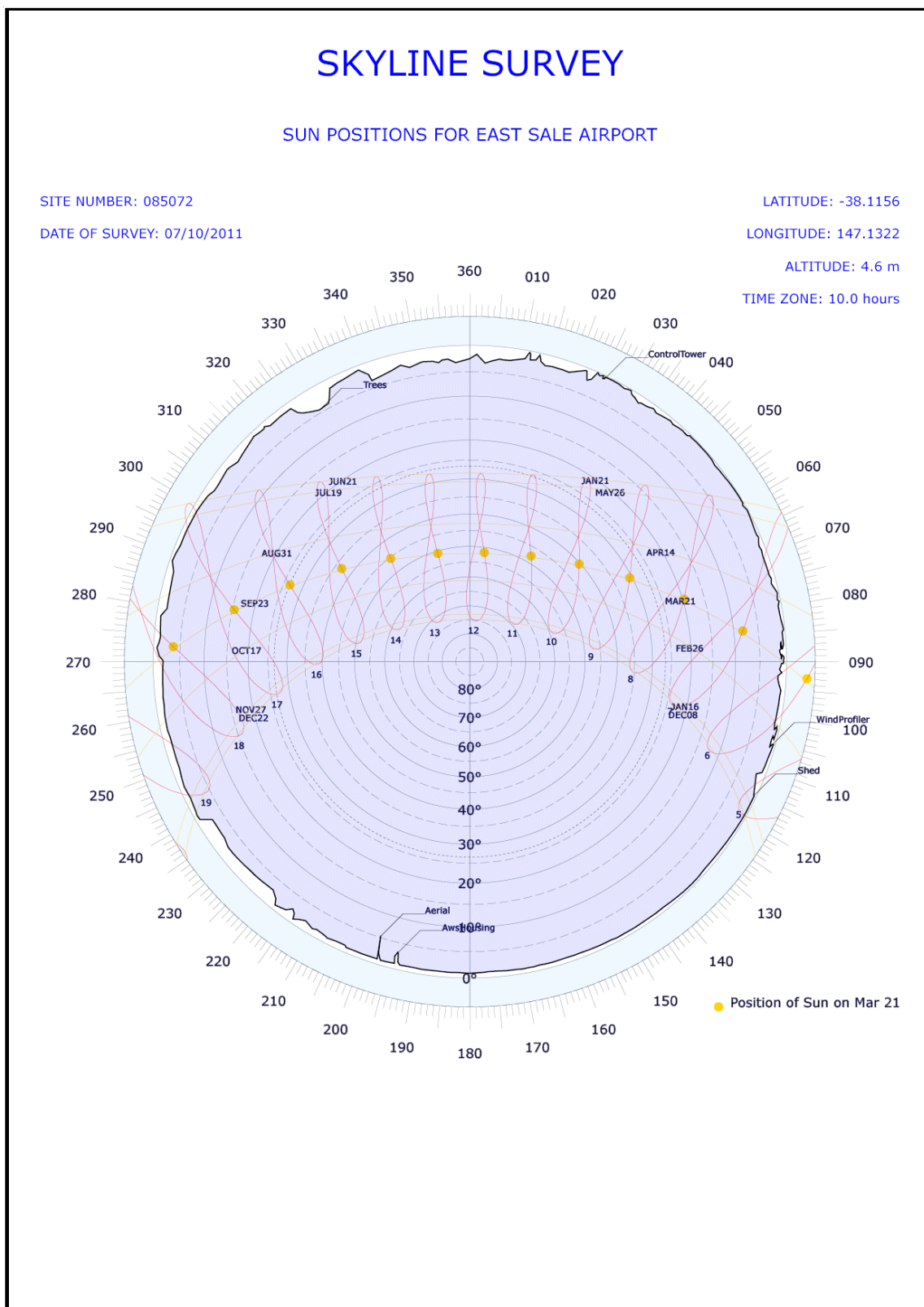
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Skyline Diagram

07/10/2011



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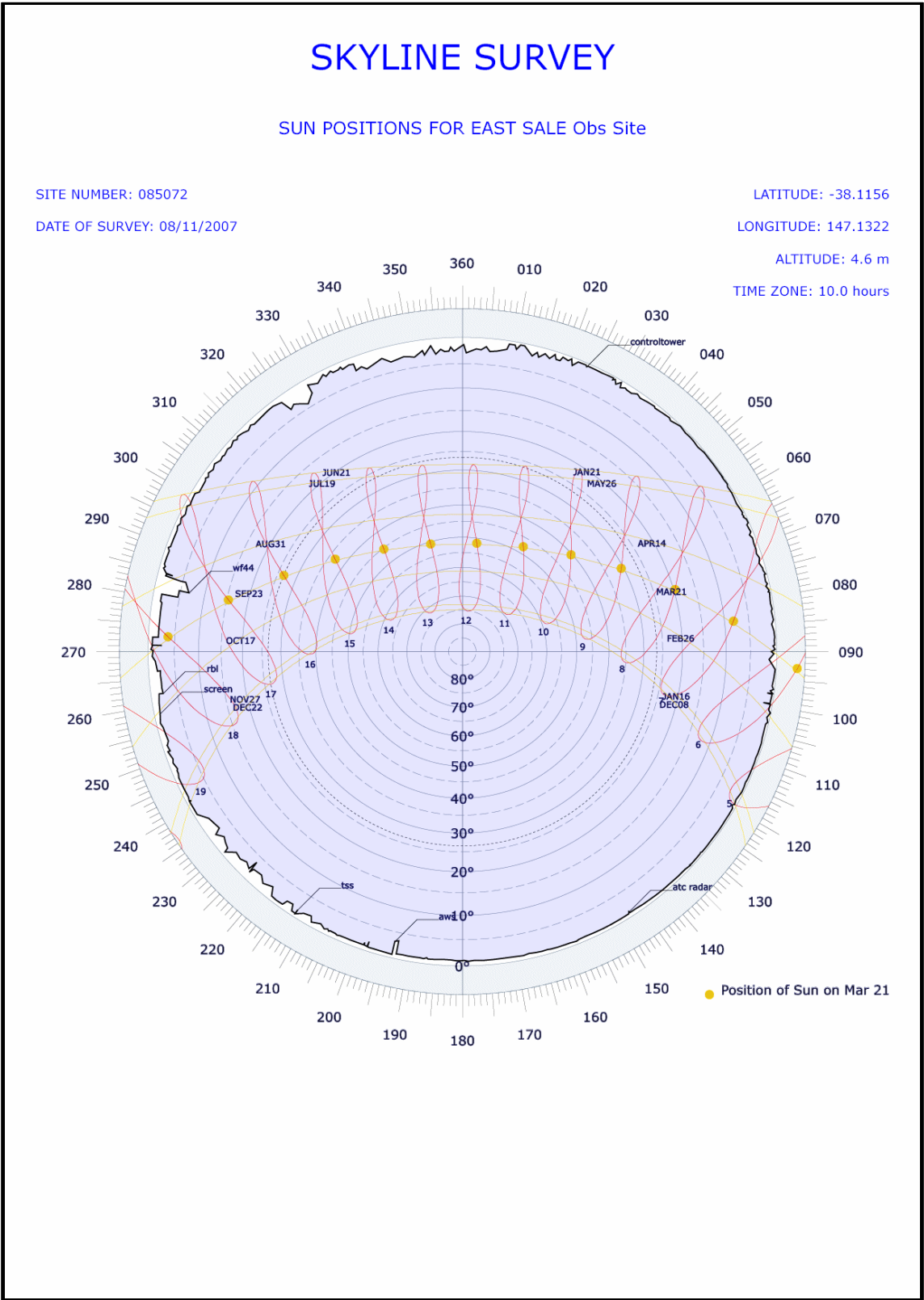
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Skyline Diagram
08/11/2007



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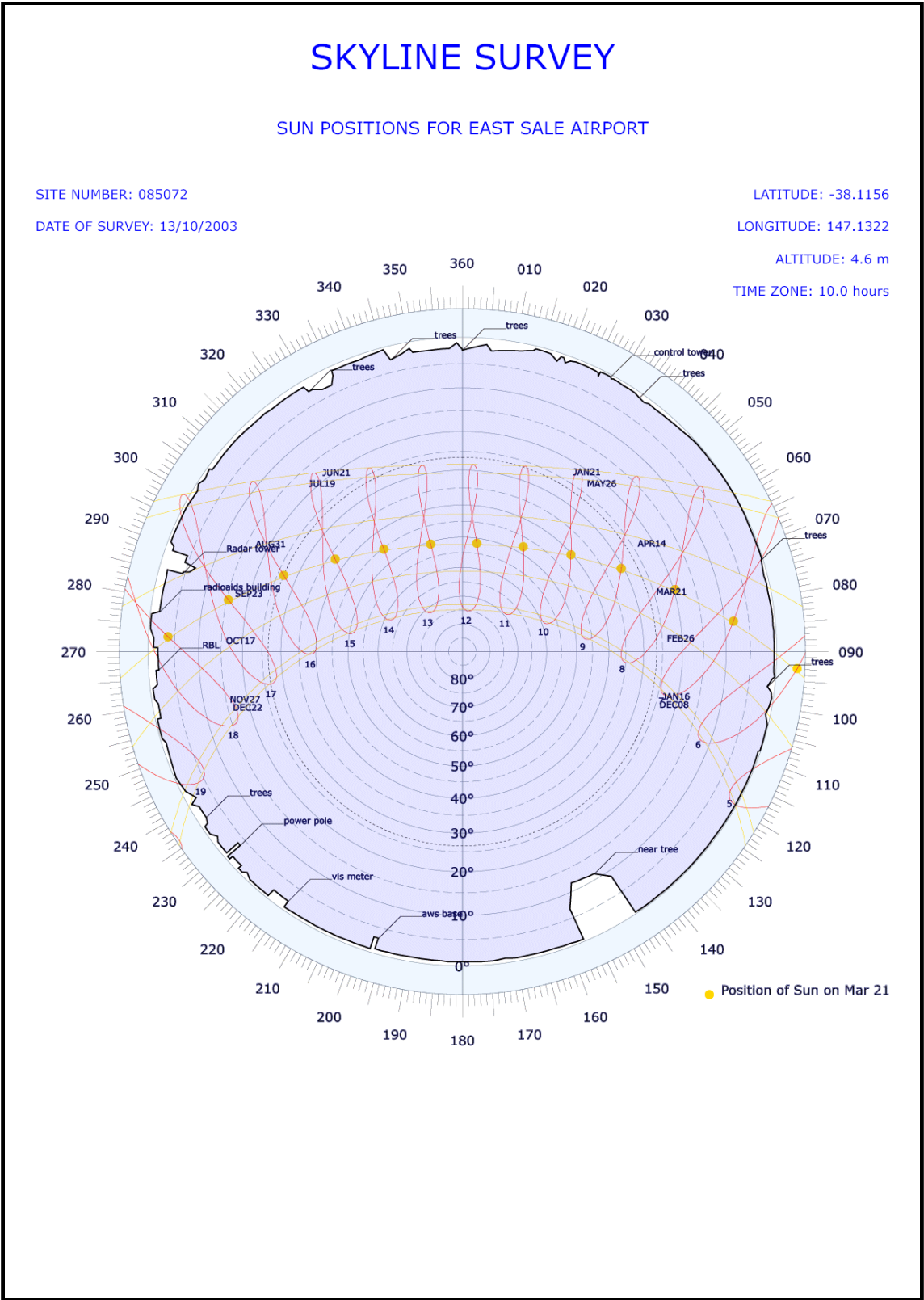
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Skyline Diagram
13/10/2003



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Station Observation Program Summary (Surface Observations) from 01/04/1943 to 12/06/1996

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 12/06/1996 to 01/01/2005

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

Station Observation Program Summary (Surface Observations) from 01/01/2005 to 01/11/2006

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

Station Observation Program Summary (Surface Observations) from 01/11/2006 to 23/10/2009

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

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Station Observation Program Summary (Surface Observations) from 09/04/2010 to 10/01/2015

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) 28 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	-	-	-	-	-	-	-	-

Station Observation Program Summary (Surface Observations) from 23/10/2009 to 09/04/2010

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 01/07/1999 to 01/09/2009

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

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Extended Climatological Station Metadata
All History

Station: EAST SALE			Location: EAST SALE			State: VIC			
Bureau No.:	085072	WMO No.:	94907	Aviation ID:	EASL	Opened:	22 Apr 1943	Current Status:	Still open
Latitude:	-38.1156	Longitude:	147.1323	Elevation:	4.6 m	Barometer Elev:	8.2 m	Metadata compiled:	28 JUL 2025

Upper Air Routine 01/09/2009 (most recent)

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

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Extended Climatological Station Metadata

All History

Station:	EAST SALE		Location:	EAST SALE		State:	VIC
Bureau No.:	085072	WMO No.:	94907	Aviation ID:	EASL	Opened:	22 Apr 1943
Latitude:	-38.1156	Longitude:	147.1323	Elevation:	4.6 m	Barometer Elev:	8.2 m
Current Status:							Still open
Metadata compiled:							28 JUL 2025

Station Equipment History

Equipment Install/Remove

Cloud Height

05/JUN/1998 INSTALL Ceilometer (Type Vaisala CT25K S/N - T13205) Surface Observations
04/SEP/2017 REMOVE Ceilometer (Type Vaisala CL31 S/N - K1640004) Surface Observations
14/MAY/2013 REPLACE Ceilometer (Now Vaisala CL31 S/N - D0820007) Surface Observations
09/FEB/2015 REPLACE Ceilometer (Now Vaisala CL31 S/N - K1640004) Surface Observations
13/FEB/2007 REPLACE Ceilometer (Now Vaisala CT25K S/N - T13205) Surface Observations
04/JUN/2001 REPLACE Ceilometer (Now Vaisala CT25K S/N - U01505) Surface Observations
01/MAY/1943 INSTALL Cloud Base Searchlight (Type 90 Degree S/N - Unknown) Surface Observations
01/JAN/2016 REMOVE Cloud Base Searchlight (Type 90 Degree S/N - Unknown) Surface Observations

Humidity

27/APR/2017 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 11780001) Surface Observations
09/FEB/2015 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 61421998) Surface Observations
05/SEP/2017 REMOVE Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 11780001) Surface Observations
12/MAY/2015 REPLACE Humidity Probe (Now Rotronics MP101A-T4-W4W S/N - 61422017) Surface Observations

Pressure Trend

01/JUL/1951 INSTALL Barograph (Type Weekly S/N - CBM0023) Surface Observations
07/FEB/2018 REMOVE Barograph (Type Weekly S/N - CBM0023) Surface Observations

Lightning

07/AUG/2007 INSTALL Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - B5050003) Surface Observations
01/AUG/2017 INSTALL Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - D0910001) Surface Observations
15/DEC/2016 REMOVE Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - B5050003) Surface Observations
04/SEP/2017 REMOVE Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - D0910001) Surface Observations

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

01/SEP/1951 INSTALL Anemometer (Type Dines S/N - Unknown) Surface Observations
24/MAR/1999 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 65786) Surface Observations
11/JUN/1996 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - WS=70832 WD=70814) Surface Observations
19/MAY/2005 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
13/JUN/2012 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - Unknown) Infrastructure
01/APR/1943 INSTALL Wind Run Anemometer (Type Unknown S/N - NONE) Surface Observations
11/JUN/1996 REMOVE Anemometer (Type Dines S/N - Unknown) Surface Observations
04/SEP/2017 REMOVE Anemometer (Type Synchrotac Cups - Type 732 S/N - 96869) Surface Observations
04/SEP/2017 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - 80308) Surface Observations
05/SEP/2017 REMOVE Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
21/MAY/2015 REMOVE Wind Run Anemometer (Type Synchrotac S/N - 817) Surface Observations
19/MAY/2005 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 80256) Surface Observations
23/MAR/2010 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 88722) Surface Observations
15/MAY/2013 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 96869) Surface Observations
19/MAY/2005 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 80308) Surface Observations
24/MAR/1999 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - NONE) Surface Observations
13/JUN/2012 REPLACE Wind Run Anemometer (Now Munro S/N - CBM591) Surface Observations
22/MAY/2013 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 817) Surface Observations

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Extended Climatological Station Metadata
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Latitude:	-38.1156	Longitude:	147.1323	Elevation:	4.6 m	Barometer Elev:	8.2 m
Current Status:							Still open
Metadata compiled:							28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

Wet Bulb Temperature

11/JUN/1996 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 0144) Surface Observations
09/FEB/2015 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 0144) Surface Observations
01/MAY/1943 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 15813) Surface Observations
10/JAN/2015 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 15813) Surface Observations
13/OCT/2003 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 15813) Surface Observations

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

01/MAY/1943 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - M2473) Surface Observations
10/JAN/2015 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - M3992) Surface Observations
16/OCT/2014 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M3992) Surface Observations

Soil Temperature 10cm

01/DEC/1959 INSTALL Thermometer, Soil, 10cm (Type Unknown S/N - Unknown) Surface Observations
10/JAN/2015 REMOVE Thermometer, Soil, 10cm (Type Dobros S/N - M2169) Surface Observations
13/OCT/2003 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - CBM474) Surface Observations
02/NOV/2005 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - M2169) Surface Observations
27/FEB/2001 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - Unknown) Surface Observations

Soil Temperature 20cm

01/DEC/1959 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - Unknown) Surface Observations
10/JAN/2015 REMOVE Thermometer, Soil, 20cm (Type Amarol S/N - 0543833) Surface Observations
11/JUL/2012 REPLACE Thermometer, Soil, 20cm (Now Amarol S/N - 0543833) Surface Observations
02/NOV/2005 REPLACE Thermometer, Soil, 20cm (Now Amarol S/N - 428928) Surface Observations
01/APR/2012 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 583) Surface Observations
13/OCT/2003 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 9566410) Surface Observations

Soil Temperature 50cm

01/DEC/1959 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - M3569) Surface Observations
10/JAN/2015 REMOVE Thermometer, Soil, 50cm (Type Dobros S/N - M3569) Surface Observations

Snow Height (No Electronic History)

Soil Temperature 100cm

01/DEC/1959 INSTALL Thermometer, Soil, 100cm (Type Amarol S/N - 9859564) Surface Observations
10/JAN/2015 REMOVE Thermometer, Soil, 100cm (Type Amarol S/N - 9859564) Surface Observations

Sunshine Hours

01/MAY/1950 INSTALL Sunshine Recorder (Type Casella S/N - 7797) Surface Observations
01/FEB/2015 REMOVE Sunshine Recorder (Type Casella S/N - 7781) Surface Observations
17/MAY/2009 REPLACE Sunshine Recorder (Now Casella S/N - 7781) Surface Observations

Wind Run

01/APR/1943 INSTALL Wind Run Anemometer (Type Unknown S/N - NONE) Surface Observations
21/MAY/2015 REMOVE Wind Run Anemometer (Type Synchrotac S/N - 817) Surface Observations
13/JUN/2012 REPLACE Wind Run Anemometer (Now Munro S/N - CBM591) Surface Observations
22/MAY/2013 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 817) Surface Observations

Minimum Temperature

01/MAY/1943 INSTALL Thermometer, Alcohol, Min (Type Unknown S/N - Unknown) Surface Observations

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Extended Climatological Station Metadata

All History

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Current Status:							Still open
Metadata compiled:							28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

10/AUG/2015 REMOVE Thermometer, Alcohol, Min (Type WIKA S/N - 31263) Surface Observations
21/FEB/2001 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 17257) Surface Observations
07/OCT/2011 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - CBM3856) Surface Observations
16/OCT/2014 REPLACE Thermometer, Alcohol, Min (Now WIKA S/N - 31263) Surface Observations

Terrestrial Minimum Temperature

01/MAR/1960 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - 19660) Surface Observations
22/APR/2014 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - 19660) Surface Observations

Visibility

05/JUN/1998 INSTALL Visibility Meter (Type Vaisala FD12 S/N - T07305) Surface Observations
04/SEP/2017 REMOVE Visibility Meter (Type Vaisala FS11 S/N - M3940561) Surface Observations
04/APR/2000 REPLACE Visibility Meter (Now Vaisala FD12 S/N - P12207) Surface Observations
31/JAN/2013 REPLACE Visibility Meter (Now Vaisala FD12 S/N - Z09203) Surface Observations
05/APR/2017 REPLACE Visibility Meter (Now Vaisala FS11 S/N - M3940561) 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

01/DEC/1992 INSTALL Radar (Type WF3 S/N - Unknown) Upper Air
17/JUN/1996 INSTALL Radar (Type WF44 S/N - Unknown) Upper Air
17/JUN/1996 INSTALL Radar (Type WF44 S/N - Unknown) WeatherWatch
17/JUN/1996 INSTALL Radar Interface (Type BOM S/N - Unknown) Upper Air
17/JUN/1996 INSTALL Radar Tower (Type Lattice WF44 - 18 ft S/N - Unknown) Infrastructure
17/JUN/1996 REMOVE Radar (Type WF3 S/N - Unknown) Upper Air
02/SEP/2009 REMOVE Radar (Type WF44 S/N - Unknown) Upper Air
02/SEP/2009 REMOVE Radar (Type WF44 S/N - Unknown) WeatherWatch
01/SEP/2009 REMOVE Radar Interface (Type BOM S/N - Unknown) Upper Air
02/SEP/2009 REMOVE Radar Tower (Type Lattice WF44 - 18 ft S/N - Unknown) Infrastructure

Total Column Ozone Amount (No Electronic History)

Pressure

01/JUL/1951 INSTALL Barometer (Type Unknown S/N - Unknown) Surface Observations
11/JUN/1996 INSTALL Barometer (Type Vaisala PA11A S/N - P4060013) Surface Observations
22/FEB/2012 INSTALL Barometer (Type Vaisala PTB220B S/N - D4750001) Surface Observations
30/AUG/2016 REMOVE Barometer (Type Vaisala PA11A S/N - 661810) Surface Observations
11/JUN/1996 REMOVE Barometer (Type Vaisala PA11A S/N - Unknown) Surface Observations
04/SEP/2017 REMOVE Barometer (Type Vaisala PTB330B (General Use) S/N - K3750004) Surface Observations
01/JAN/1995 REPLACE Barometer (Now Kew pattern mercury S/N - 2082) Surface Observations
21/OCT/1993 REPLACE Barometer (Now Negretti and Zambra Mk I S/N - CBM082) Surface Observations
19/JUN/2014 REPLACE Barometer (Now Vaisala PA11A S/N - 661810) Surface Observations
26/AUG/2009 REPLACE Barometer (Now Vaisala PA11A S/N - 661815) Surface Observations
18/NOV/1999 REPLACE Barometer (Now Vaisala PA11A S/N - S0840006) Surface Observations
05/SEP/2007 REPLACE Barometer (Now Vaisala PA11A S/N - T0550006) Surface Observations
05/OCT/2006 REPLACE Barometer (Now Vaisala PA11A S/N - T1110012) Surface Observations

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All History

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

18/JAN/1995 REPLACE Barometer (Now Vaisala PA11A S/N - Unknown) Surface Observations
29/JUN/2016 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - K3750004) Surface Observations

Evaporation

01/FEB/1971 INSTALL Evaporation Pan (Type Class A S/N - Unknown) Surface Observations
11/FEB/2016 REMOVE Evaporation Pan (Type Class A S/N - Unknown) Surface Observations

Rainfall

01/MAY/1953 INSTALL Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
31/MAR/1996 REMOVE Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
01/MAY/1943 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations
30/MAY/1995 INSTALL Raingauge (Type HS TB3A-0.2 S/N - 94-112) Rainfall Intensity
11/JUN/1996 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - 131) Surface Observations
27/APR/2017 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - 226) Surface Observations
10/JAN/2015 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations
16/APR/1998 REMOVE Raingauge (Type Rimco 7499 TBRG S/N - 131) Surface Observations
05/SEP/2017 REMOVE Raingauge (Type Rimco 7499 TBRG S/N - 226) Surface Observations
31/JAN/2013 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 84620) Rainfall Intensity
31/JAN/2013 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 84620) Surface Observations
20/SEP/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 76610) Rainfall Intensity
20/SEP/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 76610) Surface Observations
16/APR/1998 SHARE Raingauge (Type HS TB3A-0.2 S/N - 94-112) Surface Observations
16/APR/1998 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 76610) Surface Observations
18/SEP/2019 UNSHARE Raingauge (Type Rimco 7499 TBRG S/N - 84620) Rainfall Intensity

River Height (No Electronic History)

Solar Radiation (No Electronic History)

Solar Radiation (Direct) (No Electronic History)

Turbidity (No Electronic History)

Sea Water Level (No Electronic History)

Sea Water Temperature (No Electronic History)

Wind Speed

01/SEP/1951 INSTALL Anemometer (Type Dines S/N - Unknown) Surface Observations
24/MAR/1999 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 65786) Surface Observations
11/JUN/1996 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - WS=70832 WD=70814) Surface Observations
19/MAY/2005 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
13/JUN/2012 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - Unknown) Infrastructure
01/APR/1943 INSTALL Wind Run Anemometer (Type Unknown S/N - NONE) Surface Observations
11/JUN/1996 REMOVE Anemometer (Type Dines S/N - Unknown) Surface Observations
04/SEP/2017 REMOVE Anemometer (Type Synchrotac Cups - Type 732 S/N - 96869) Surface Observations
04/SEP/2017 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - 80308) Surface Observations
05/SEP/2017 REMOVE Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
21/MAY/2015 REMOVE Wind Run Anemometer (Type Synchrotac S/N - 817) Surface Observations
19/MAY/2005 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 80256) Surface Observations
23/MAR/2010 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 88722) Surface Observations
15/MAY/2013 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 96869) Surface Observations

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

19/MAY/2005 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 80308) Surface Observations
24/MAR/1999 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - NONE) Surface Observations
13/JUN/2012 REPLACE Wind Run Anemometer (Now Munro S/N - CBM591) Surface Observations
22/MAY/2013 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 817) Surface Observations

Air Temperature

27/APR/2017 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 11780001) Surface Observations
09/FEB/2015 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 61421998) Surface Observations
05/SEP/2017 REMOVE Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 11780001) Surface Observations
12/MAY/2015 REPLACE Humidity Probe (Now Rotronics MP101A-T4-W4W S/N - 61422017) Surface Observations
11/JUN/1996 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 0141) Surface Observations
27/APR/2017 INSTALL Temperature Probe - Dry Bulb (Type Temp Control TCBMP01 S/N - 10282) Surface Observations
30/AUG/2017 REMOVE Temperature Probe - Dry Bulb (Type Temp Control TCBMP01 S/N - 10282) Surface Observations
01/MAY/1943 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - Unknown) Surface Observations
10/JAN/2015 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 15938) Surface Observations
13/OCT/2003 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 15938) 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
24/MAR/1999 - 01/JUN/2016	Cloud Height	0
09/FEB/2015 - 30/NOV/2020	Humidity	1
07/OCT/2011 - 07/OCT/2011	Pressure Trend	1
17/SEP/1996 - 21/MAR/2017	Wind Direction	2
17/SEP/1996 - 09/FEB/2015	Wet Bulb Temperature	2
07/OCT/2011 - 16/OCT/2014	Maximum Temperature	0
07/OCT/2011 - 16/OCT/2014	Soil Temperature 10cm	0
07/OCT/2011 - 16/OCT/2014	Soil Temperature 20cm	0
07/OCT/2011 - 16/OCT/2014	Soil Temperature 50cm	0
07/OCT/2011 - 16/OCT/2014	Soil Temperature 100cm	0
07/OCT/2011 - 16/OCT/2014	Wind Run	0
07/OCT/2011 - 16/OCT/2014	Minimum Temperature	0
07/OCT/2011 - 18/SEP/2013	Terrestrial Minimum Temperature	0
01/JUL/1998 - 11/JAN/2016	Visibility	12
30/MAY/2002 - 19/DEC/2007	RF Reflectivity	0
18/SEP/1996 - 21/MAR/2017	Pressure	3
07/OCT/2011 - 16/OCT/2014	Evaporation	0
17/SEP/1996 - 08/JUL/2021	Rainfall	7
17/SEP/1996 - 21/MAR/2017	Wind Speed	2
17/SEP/1996 - 30/NOV/2020	Air Temperature	1

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Metadata compiled:							28 JUL 2025

Station Detail Changes

01/JUL/2011 CLASSIFICATION AWS Funding - Defence Aviation (FDF) ENDED 06-09-2017
01/FEB/2021 CLASSIFICATION AWS Priority 3 - Standard (SLP3-AWS)
01/JUL/2011 CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT)
11/JUN/1996 CLASSIFICATION Basic & Severe (FBS)
26/JUN/2002 CLASSIFICATION CLIMAT Stations (CLC)
09/MAY/2006 CLASSIFICATION Category B (TAF B) ENDED 06-09-2017
26/OCT/2022 CLASSIFICATION Cold Climate Site (COLD)
10/JAN/2011 CLASSIFICATION Critical (ASOSCRIT)
01/JAN/2016 CLASSIFICATION Critical Defence (DEFSCRIT) ENDED 06-09-2017
01/MAY/1997 CLASSIFICATION GCOS Surface Network (GSN)
01/JUL/2018 CLASSIFICATION HQ EVAPORATION (HQEVAP)
10/JUN/2014 CLASSIFICATION Important Aviation or Defence (AVIMP) ENDED 06-09-2017
01/JUL/1998 CLASSIFICATION Local Forecasting, Information and Observations (WSO)
02/AUG/2021 CLASSIFICATION Mastered in EAMS (EAMS)
01/MAY/1989 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)
22/APR/1943 CLASSIFICATION Restricted Images (XIMG)
01/JUL/1998 CLASSIFICATION Upper Wind only (UW)
26/MAY/2005 OBJECT Document/85072a
05/MAR/2012 OBJECT Document/BAROMETER COEFFICIENTS
18/JAN/2016 OBJECT Document/CEILOMETER STATUS
31/JAN/2013 OBJECT Document/CEILOMETER STATUS
01/JUN/2016 OBJECT Document/CEILOMETER STATUS
16/MAY/2013 OBJECT Document/CEILOMETER STATUS
19/JUN/2014 OBJECT Document/CEILOMETER STATUS
18/SEP/2013 OBJECT Document/CEILOMETER STATUS
10/MAY/2011 OBJECT Document/CEILOMETER STATUS
24/FEB/2012 OBJECT Document/CEILOMETER STATUS
29/MAY/2012 OBJECT Document/CEILOMETER STATUS
28/JAN/2014 OBJECT Document/Excess stock
18/SEP/2019 OBJECT Document/Mast Inspection Checklist
03/OCT/2006 OBJECT Document/RAPIC TX CAL DATA
07/AUG/2003 OBJECT Document/RAPIC TX CAL DATA
12/FEB/2004 OBJECT Document/RAPIC TX CAL DATA
15/SEP/2004 OBJECT Document/RAPIC TX CAL DATA
12/MAY/2005 OBJECT Document/RAPIC TX CAL DATA
10/MAR/2006 OBJECT Document/RAPIC TX CAL DATA
20/DEC/2007 OBJECT Document/RAPIC TX CAL DATA
11/FEB/2016 OBJECT Document/SKYLINE DATA
07/OCT/2011 OBJECT Document/SKYLINE DATA
08/NOV/2007 OBJECT Document/SKYLINE DATA

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Extended Climatological Station Metadata
All History

Station:	EAST SALE		Location:	EAST SALE		State:	VIC
Bureau No.:	085072	WMO No.:	94907	Aviation ID:	EASL	Opened:	22 Apr 1943
Latitude:	-38.1156	Longitude:	147.1323	Elevation:	4.6 m	Barometer Elev:	8.2 m
Current Status:							Still open
Metadata compiled:							28 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

13/OCT/2003 OBJECT Document/SKYLINE DATA
18/SEP/2013 OBJECT Document/SKYLINE DATA - ANEMOMETER
31/JAN/2013 OBJECT Document/VISIBILITY METER STATUS
18/SEP/2013 OBJECT Document/VISIBILITY METER STATUS
10/MAY/2011 OBJECT Document/VISIBILITY METER STATUS
24/FEB/2012 OBJECT Document/VISIBILITY METER STATUS
29/MAY/2012 OBJECT Document/VISIBILITY METER STATUS
22/APR/1943 STATION - (nondb seeding) Opened
22/APR/1943 STATION - (nondb seeding) bar_ht Changed to 8.2
22/APR/1943 STATION - (nondb seeding) bar_ht_deriv Changed to MAP 1:100 000
22/APR/1943 STATION - (nondb seeding) name Changed to EAST SALE AIRPORT
22/APR/1943 STATION - (nondb seeding) stn_ht Changed to 4.6
22/APR/1943 STATION - (nondb seeding) stn_ht_deriv Changed to MAP 1:100 000
22/APR/1943 STATION - (nondb seeding) wmo_num Changed to 94907
22/APR/1943 STATION aero_ht Changed to 7.0
22/APR/1943 STATION aero_ht_deriv Changed to SURVEY
06/SEP/2017 STATION aviation_id Changed to EASL
22/APR/1943 STATION aviation_id Changed to YMES
22/APR/1943 STATION latitude Changed to -38.11556Seeded from NonDb
22/APR/1943 STATION latlon_deriv Changed to GPS
22/APR/1943 STATION latlon_error Changed to 3
22/APR/1943 STATION longitude Changed to 147.13231Seeded from NonDb
19/SEP/2000 STATION lu_0_100m Changed to Open farmland, grassland or tundra
19/SEP/2000 STATION lu_100m_1km Changed to Airport
15/DEC/2016 STATION lu_1km_10km Changed to City area, buildings < 10 metres (3 storey)
19/SEP/2000 STATION lu_1km_10km Changed to Town 1000 to 10,000
06/SEP/2017 STATION name Changed to EAST SALE
19/SEP/2000 STATION soil_type Changed to clay
15/DEC/2016 STATION surface_type Changed to fully covered by grass
18/SEP/2019 STATION surface_type Changed to mostly covered by grass
19/SEP/2000 STATION surface_type Changed to mostly covered by grass

System Changes

20/NOV/2009 SYSTEM Flood Warning Commenced
01/APR/1943 SYSTEM Infrastructure Commenced
18/SEP/2019 SYSTEM Rainfall Intensity Ceased
01/MAY/1953 SYSTEM Rainfall Intensity Commenced
01/JAN/2006 SYSTEM Reference Standards Commenced
01/APR/1943 SYSTEM Surface Observations Commenced
01/DEC/1992 SYSTEM Upper Air Commenced
02/SEP/2009 SYSTEM WeatherWatch Ceased
17/JUN/1996 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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