



Basic Climatological Station Metadata  
Current status

Metadata compiled: 28 JUL 2025

Station: MELBOURNE AIRPORT

Bureau of Meteorology station number: 086282  
Bureau of Meteorology district name: East Central  
State: VIC

World Meteorological Organization number: 94866  
Identification: YMML

Network Classification: CLIMAT Stations, CLIMAT TEMP Stations, Regional  
Basic Synoptic Network

Station purpose: Synoptic, Aeronautical  
Automatic Weather Station: Almos



Current Station Location				
Latitude	Decimal	-37.6654	Hour Min Sec	37°39'55"S
Longitude	Decimal	144.8322	Hour Min Sec	144°49'56"E
Station Height	113.4 m	Barometer Height	115.7 m	
Method of station geographic positioning			GPS	

Year opened: 1970  
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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<b>Station:</b> MELBOURNE AIRPORT			<b>Location:</b> MELBOURNE AIRPORT			<b>State:</b> VIC			
<b>Bureau No.:</b>	086282	<b>WMO No.:</b>	94866	<b>Aviation ID:</b>	<b>Opened:</b>	18 Jun 1970	<b>Current Status:</b>	Still open	
<b>Latitude:</b>	-37.6654	<b>Longitude:</b>	144.8322	<b>Elevation:</b>	113.4 m	<b>Barometer Elev:</b>	115.7 m	<b>Metadata compiled:</b>	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	APR 1998	JUN 2025	99.9	9	0
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	APR 1998	JUN 2011	99.8	7	0
GROUND MINIMUM TEMPERATURE	AUG 1999	JUN 2025	99.4	49	0
MAXIMUM AIR TEMPERATURE	JUL 1970	JUN 2025	99.9	1	0
MAXIMUM WIND GUST SPEED	JUL 1970	JUN 2025	99.6	64	0
SUNSHINE HOURS	AUG 1999	JUN 2025	99.8	19	0
WIND RUN ABOVE 10 FEET	OCT 1997	JUN 2025	99.3	65	0
WIND RUN BELOW 10 FEET	APR 1998	JUN 2025	99.7	28	0
RAINFALL	JUL 1970	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	JUL 1970	JUN 2025	99.6	11.4	0	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	JUL 1970	JUN 2025	99.6	11.4	0	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	JUL 1970	JUN 2025	99.6	11.4	0	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	SEP 1999	MAR 2023	99.1	2.0	24	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
TOTAL CLOUD AMOUNT	JUL 1970	JUN 2025	99.4	7.9	0	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	JUL 1970	JUN 2025	99.5	11.4	0	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	AUG 1999	JUN 2025	87.6	2.4	62	1
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 WIND SPEED	AUG 1999	JUN 2025	89.2	3.8	93	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

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RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	JUN 1970	AUG 2016	86.7	1393	28

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	OCT 1997	JUL 2025	99.5	1432.4	N/A	6

HALF-HOURLY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	JUL 1970	JUL 2025	102.0	49.0	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	Aug 1999	Sep 2017	N/A	2.0	133	5
Wind, temperature and pressure flights	Aug 1999	Sep 2017	N/A	2.1	12	0

Holdings calculated up to 01 Jul 2025

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

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

Unlisted element

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

Listed element to use

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

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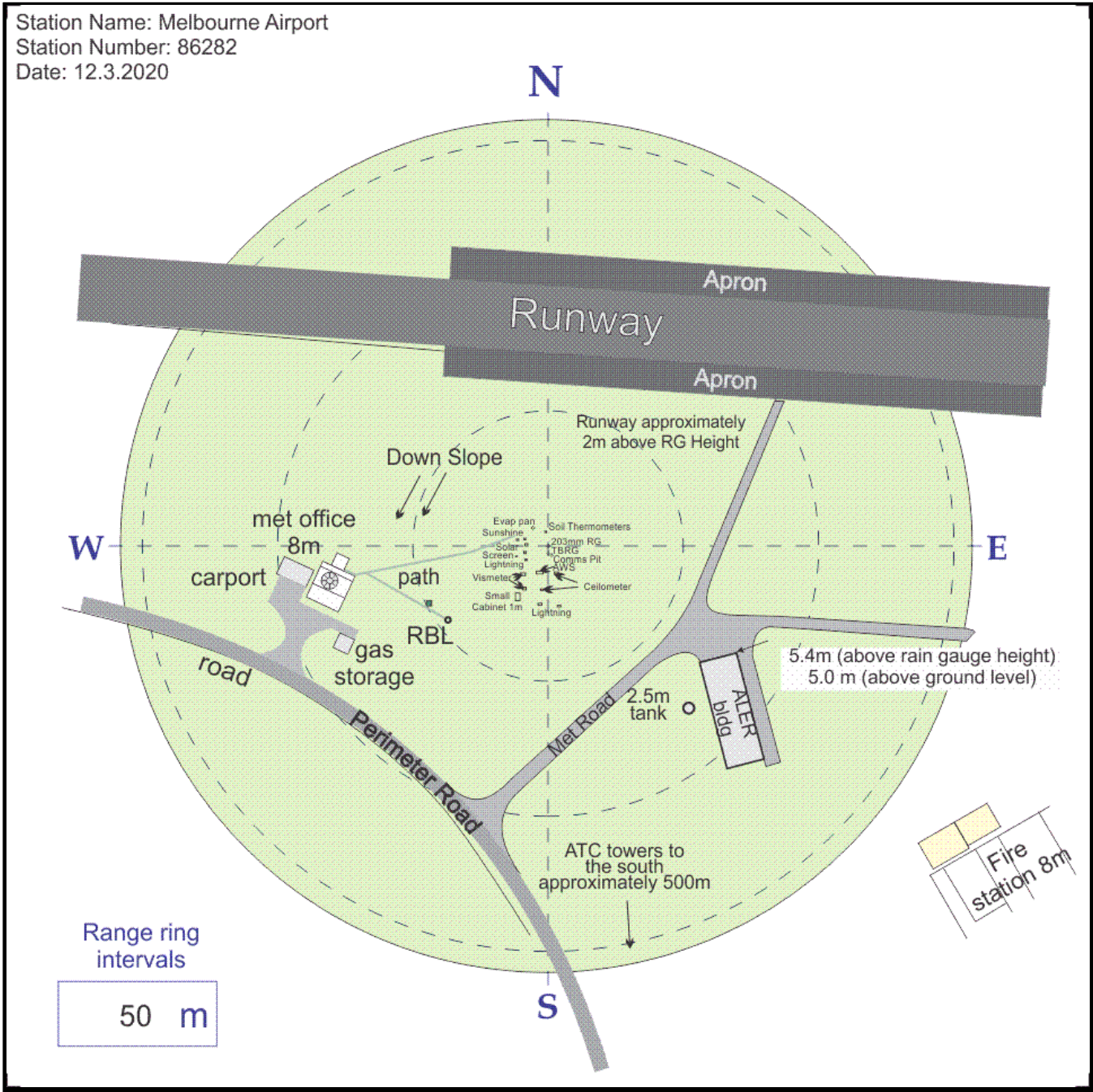
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Extended Climatological Station Metadata  
All History

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Instrument Location and Surrounding Features  
12/03/2020(most recent)



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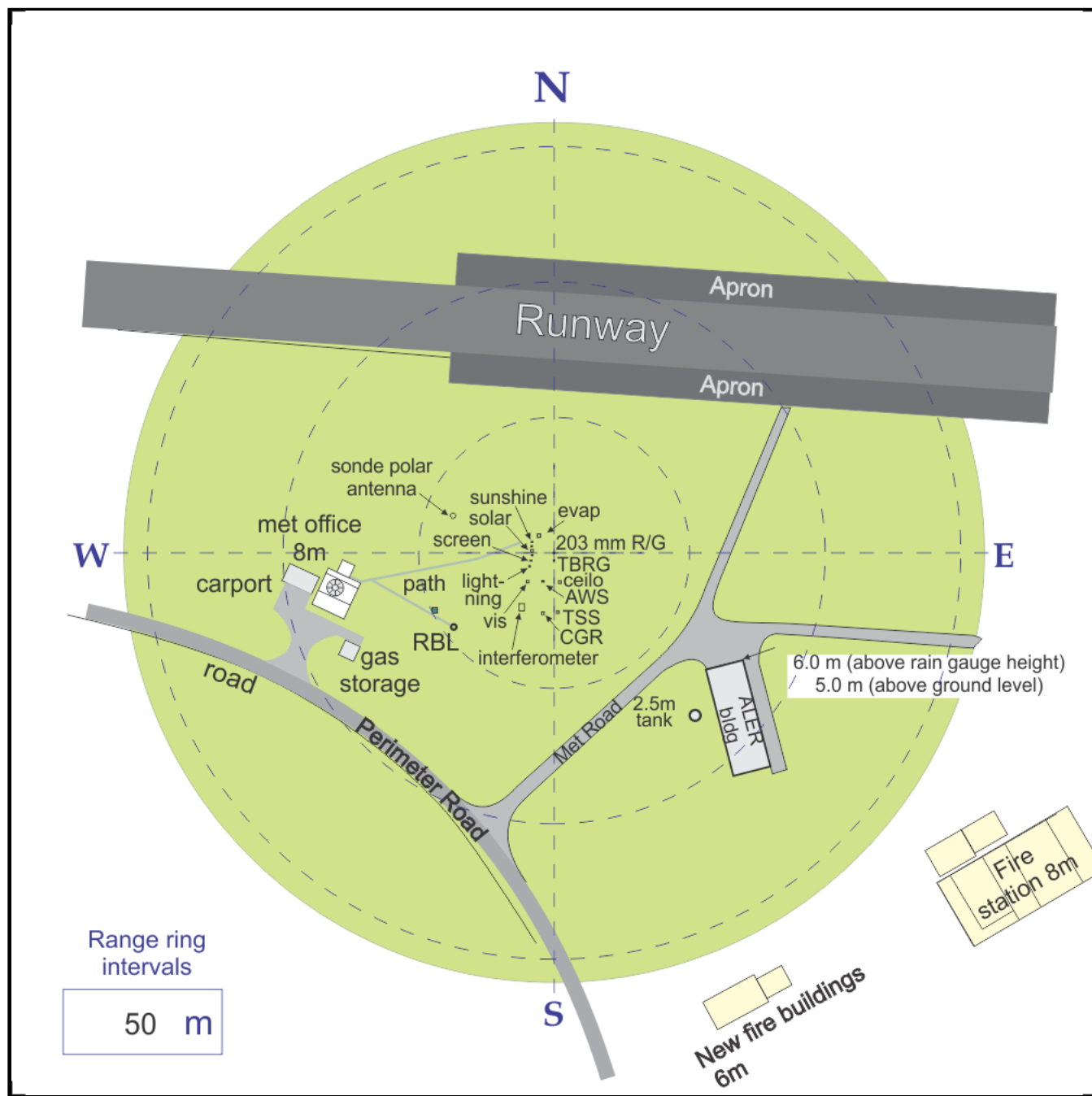
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All History

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### Instrument Location and Surrounding Features

02/12/2014



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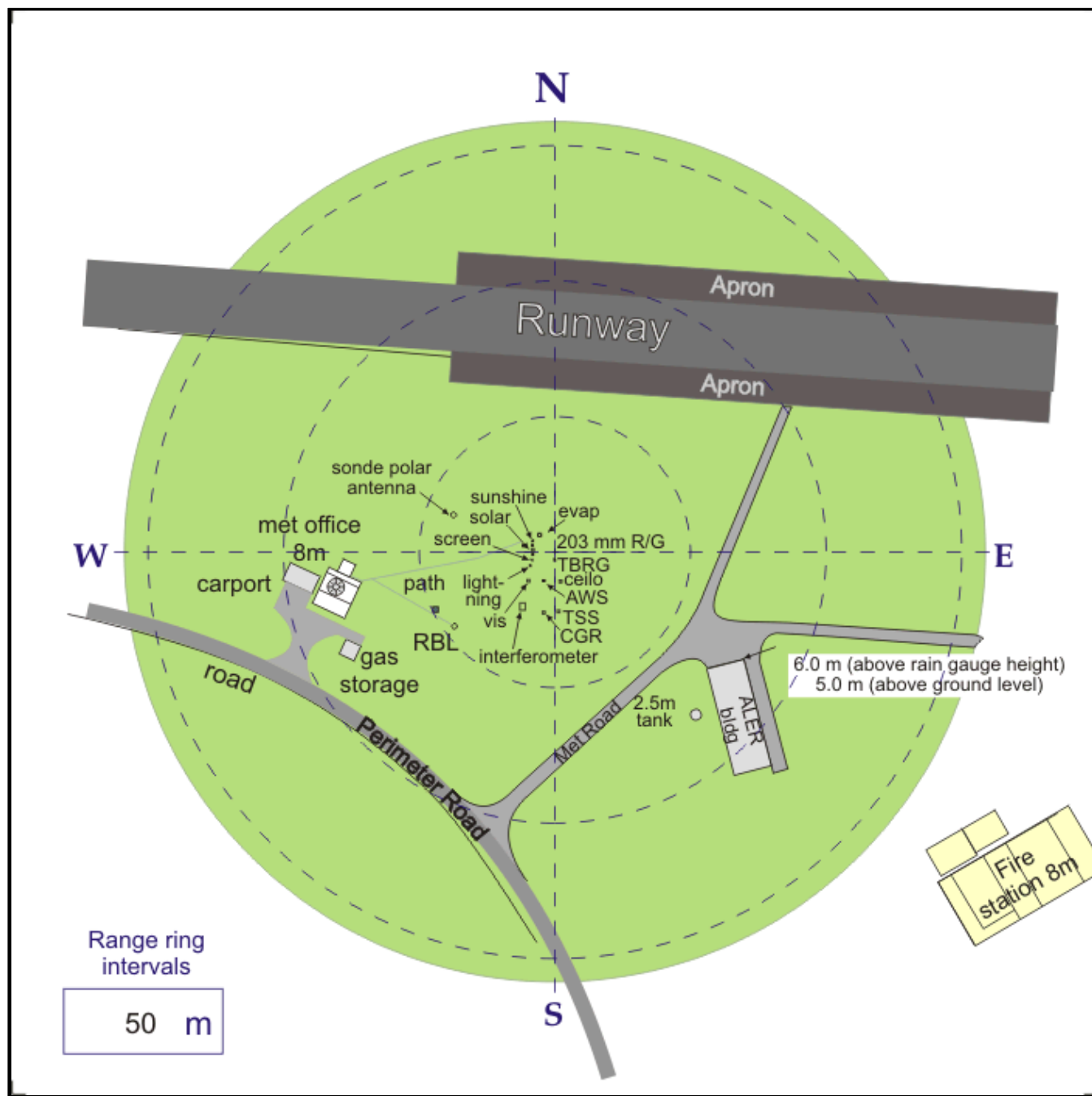
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All History

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### Instrument Location and Surrounding Features

10/05/2012



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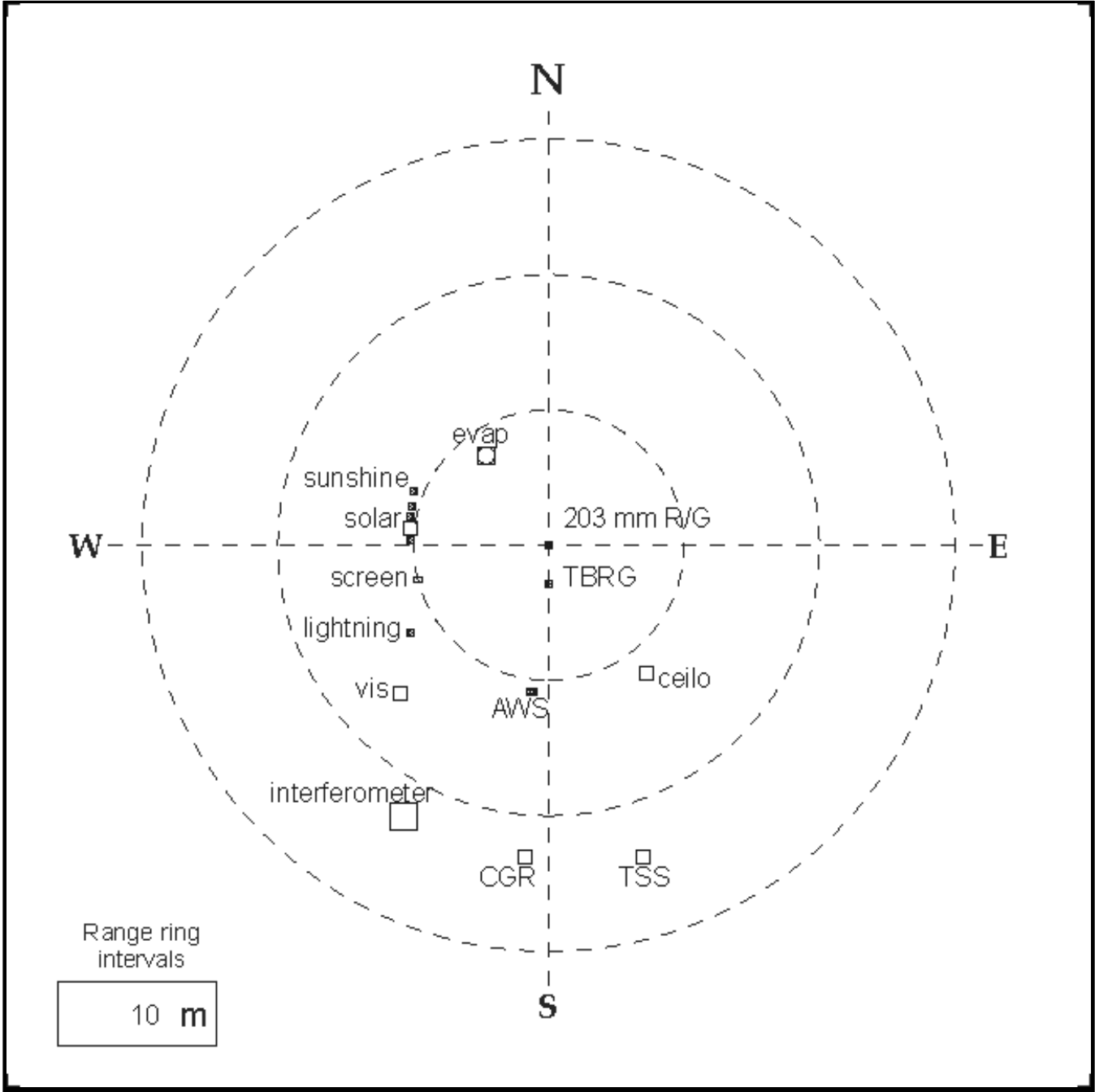
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Extended Climatological Station Metadata  
All History

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Bureau No.:	086282	WMO No.:	94866	Aviation ID:	YMML	Opened:	18 Jun 1970
Latitude:	-37.6654	Longitude:	144.8322	Elevation:	113.4 m	Barometer Elev:	115.7 m
						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features  
05/05/2006



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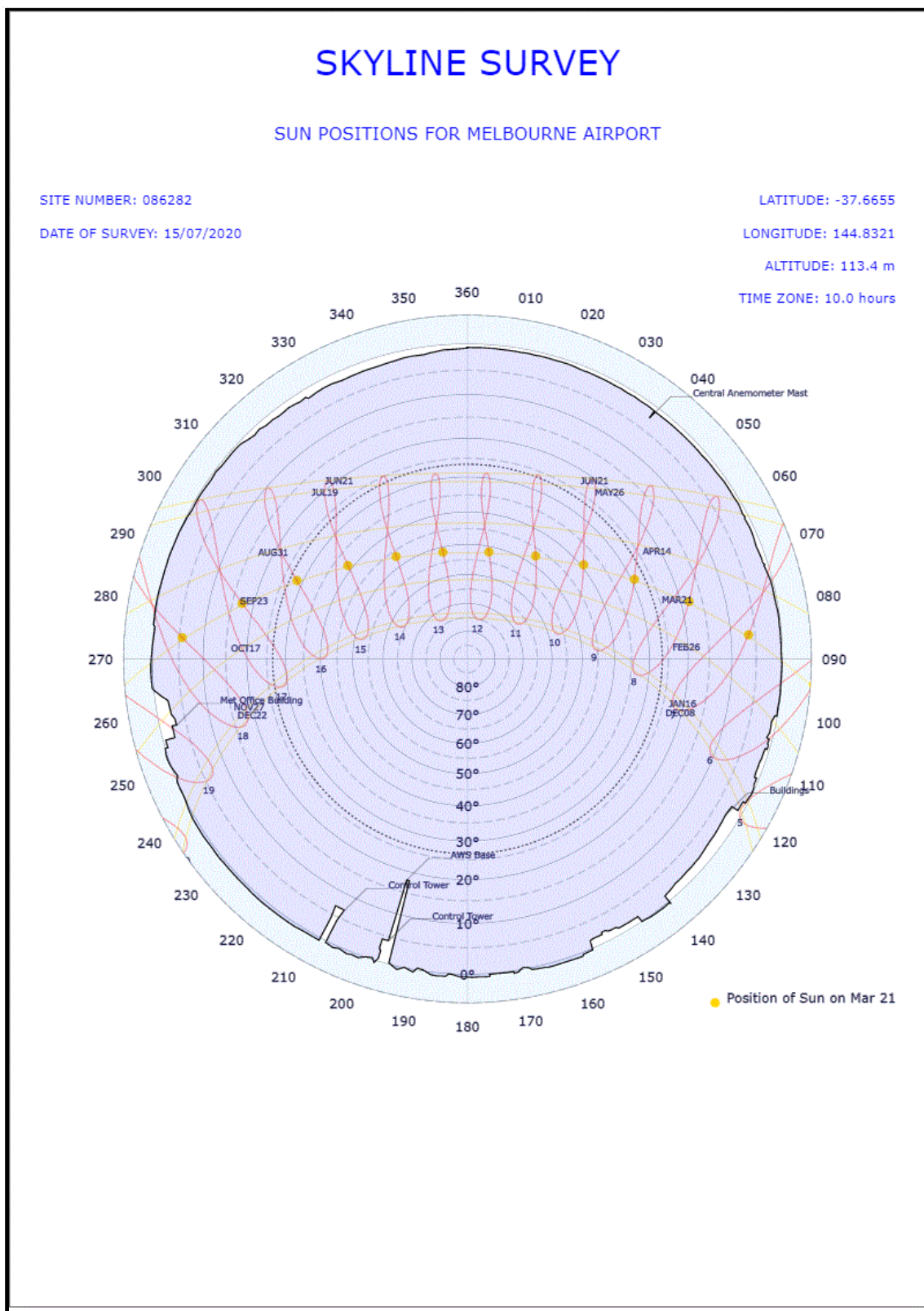
## Extended Climatological Station Metadata

All History

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				<b>Current Status:</b>	Still open
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### Skyline Diagram

15/07/2020(most recent)



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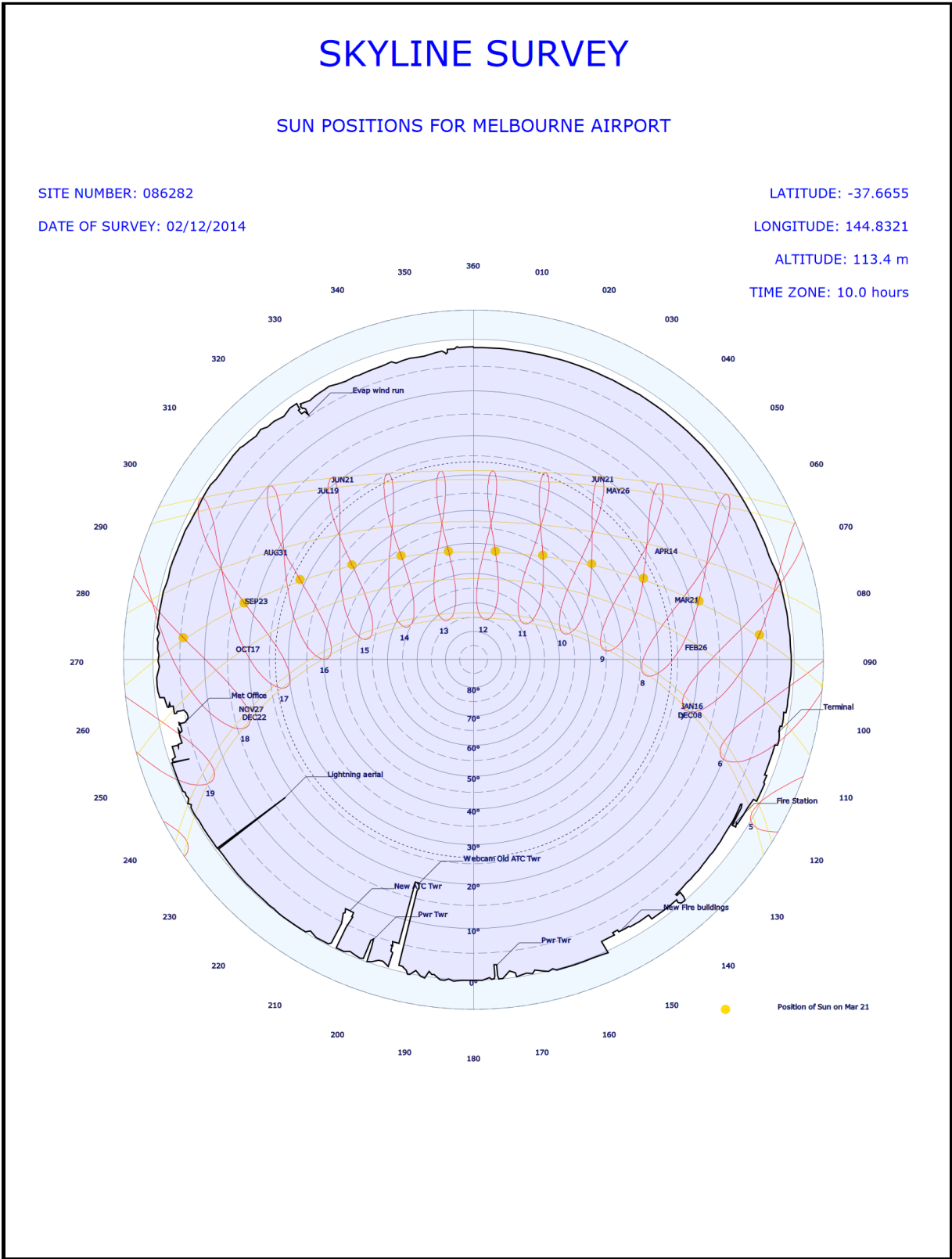
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Skyline Diagram  
02/12/2014



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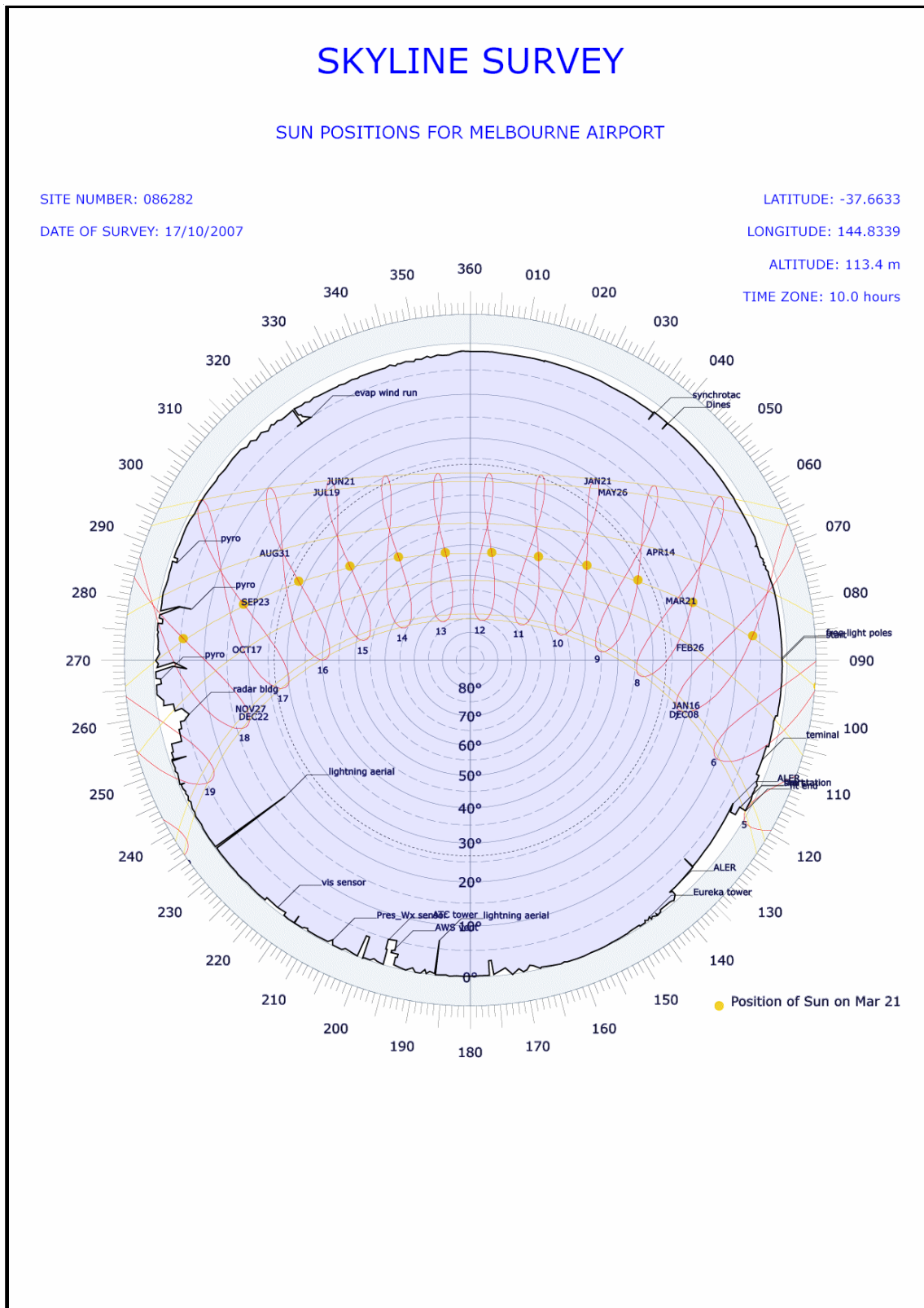
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### Skyline Diagram

17/10/2007



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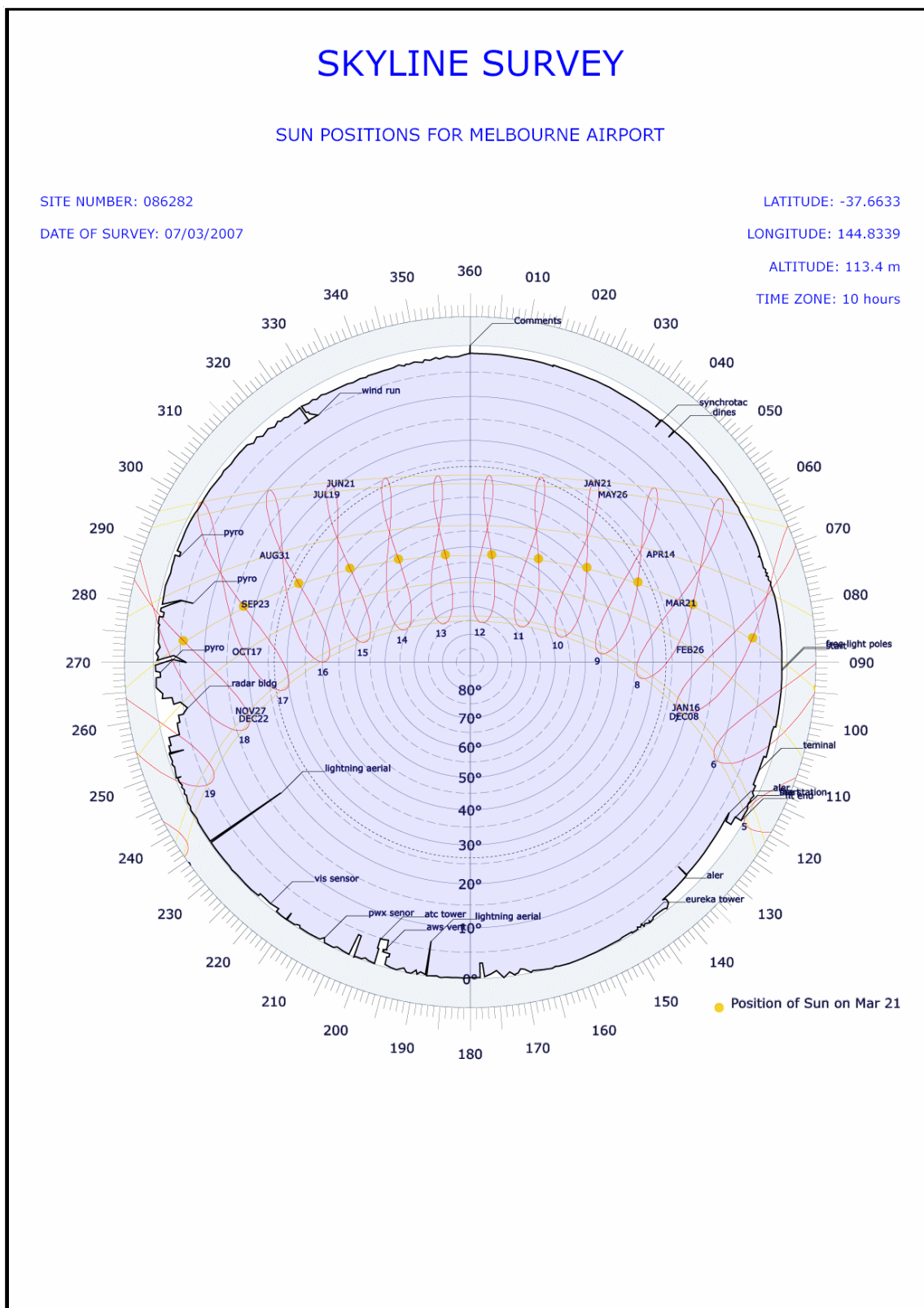
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### Skyline Diagram

07/03/2007



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Station Observation Program Summary (Surface Observations) from 18/06/1970 to 19/10/1997

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) 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	-	-	-	-	-	-	-	-

Upper Air Routine 18/08/1999 to 17/06/2006

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

Upper Air Routine 17/06/2006 to 22/01/2007

Flight type	Time UTC	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Wind & Temp.	00:00	Y	Y	Y	Y	Y	Y	Y
Wind & Temp.	06:00	-	-	-	-	-	-	-
Wind & Temp.	12:00	Y	Y	Y	Y	Y	Y	Y
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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### Upper Air Routine 22/01/2007 to 02/10/2007

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

### Upper Air Routine 02/10/2007 to 01/10/2017

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

### Upper Air Routine 01/10/2017 (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	-	-	-	-	-	-	-
Wind & Temp.	12:00	Y	Y	Y	Y	Y	Y	Y
Wind & Temp.	18:00	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-

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Extended Climatological Station Metadata  
All History

<b>Station:</b> MELBOURNE AIRPORT			<b>Location:</b> MELBOURNE AIRPORT			<b>State:</b> VIC			
<b>Bureau No.:</b>	086282	<b>WMO No.:</b>	94866	<b>Aviation ID:</b>	<b>Opened:</b>	18 Jun 1970	<b>Current Status:</b>	Still open	
<b>Latitude:</b>	-37.6654	<b>Longitude:</b>	144.8322	<b>Elevation:</b>	113.4 m	<b>Barometer Elev:</b>	115.7 m	<b>Metadata compiled:</b>	28 JUL 2025

Station Equipment History

Equipment Install/Remove

Cloud Height

01/DEC/1991 INSTALL Ceilometer (Type Unknown S/N - Unknown) Surface Observations  
01/FEB/1997 INSTALL Ceilometer (Type Vaisala CT12K S/N - 0395297E) Surface Observations  
01/FEB/1997 REMOVE Ceilometer (Type Unknown S/N - Unknown) Surface Observations  
07/MAY/2015 REPLACE Ceilometer (Now Vaisala CL31 S/N - H3850008) Surface Observations  
08/DEC/2004 REPLACE Ceilometer (Now Vaisala CT12K S/N - 0395297E) Surface Observations  
15/SEP/2003 REPLACE Ceilometer (Now Vaisala CT12K S/N - 0397376E) Surface Observations  
29/AUG/2003 REPLACE Ceilometer (Now Vaisala CT12K S/N - 0397377E) Surface Observations  
17/MAY/2006 REPLACE Ceilometer (Now Vaisala CT25K S/N - B02105) Surface Observations  
18/AUG/1999 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - Unknown) Surface Observations  
18/JUN/1970 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - Unknown) Surface Observations  
27/JUN/2003 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - Unknown) Surface Observations  
05/APR/2002 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - Unknown) Surface Observations

Humidity

01/JUL/2021 INSTALL Humidity Probe (Type Vaisala HMP155A S/N - T1311040) Surface Observations

Pressure Trend

18/JUN/1970 INSTALL Barograph (Type Weekly S/N - CBM072) Surface Observations

Lightning

01/DEC/1979 INSTALL Lightning Flash Counter (Type CIGRE - Vertical Aerial S/N - Unknown) Surface Observations  
09/DEC/2003 INSTALL Lightning Flash Counter (Type Unknown S/N - Unknown) Surface Observations  
10/APR/2003 INSTALL Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - 2200-0098) Surface Observations  
18/SEP/2009 REPLACE Lightning Sensor (Now Vaisala TSS928 (Thunderstorm Sensor) S/N - E044002) Surface Observations

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

18/JUN/1970 INSTALL Anemometer (Type Dines S/N - Unknown) Surface Observations  
14/SEP/2000 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 72373) Surface Observations  
01/AUG/1995 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations  
06/MAR/1997 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - WD=69445 WS=69535) Surface Observations  
01/AUG/1995 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - NONE) Infrastructure  
31/MAR/1998 INSTALL Wind Run Anemometer (Type Munro S/N - CBM448) Surface Observations  
23/JUL/1995 REMOVE Anemometer (Type Dines S/N - Unknown) Surface Observations  
06/MAR/1997 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations  
14/SEP/2000 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 72345) Surface Observations  
03/APR/2014 REPLACE Mast Anemometer (Now Pivot, Standard 8m S/N - NONE) Infrastructure  
18/AUG/1999 REPLACE Wind Run Anemometer (Now Munro S/N - CBM593) Surface Observations  
13/SEP/2007 REPLACE Wind Run Anemometer (Now Munro S/N - CBM613) Surface Observations  
19/JUL/2014 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 36558) Surface Observations  
24/JAN/2009 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 400) Surface Observations

Wet Bulb Temperature

01/AUG/1995 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 0487) Surface Observations  
01/JUL/2021 REMOVE Temperature Probe - Wet Bulb (Type Rosemount ST2401 S/N - 0731) Surface Observations  
15/FEB/2010 REPLACE Temperature Probe - Wet Bulb (Now Rosemount ST2401 S/N - 0731) Surface Observations

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Extended Climatological Station Metadata  
All History

<b>Station:</b>	MELBOURNE AIRPORT		<b>Location:</b>	MELBOURNE AIRPORT		<b>State:</b>	VIC
<b>Bureau No.:</b>	086282	<b>WMO No.:</b>	94866	<b>Aviation ID:</b>	YMML	<b>Opened:</b>	18 Jun 1970
<b>Latitude:</b>	-37.6654	<b>Longitude:</b>	144.8322	<b>Elevation:</b>	113.4 m	<b>Current Status:</b>	Still open
						<b>Barometer Elev:</b>	115.7 m
							<b>Metadata compiled:</b> 28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

18/JUN/1970 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - Unknown) Surface Observations  
30/MAR/2023 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 15974) Surface Observations  
15/DEC/2011 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 15974) Surface Observations  
18/AUG/1999 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 16797) Surface Observations

Solar Radiation (Long Wave)

10/JUN/1999 INSTALL Pyrgeometer (Type Epply PIR S/N - 29073F3) Radiation

Spectral Radiation

28/JUL/1999 INSTALL Photometer Head (Type SPO1A Mk1 S/N - Unknown) Radiation  
09/OCT/2001 INSTALL Photometer Head (Type SPO2 Mk1 S/N - 1021) Radiation  
31/OCT/2005 INSTALL Photometer Head (Type SPO2 Mk1 S/N - 1049) Radiation  
03/NOV/2005 REMOVE Photometer Head (Type SPO2 Mk1 S/N - 1049) Radiation  
19/AUG/2005 REMOVE Photometer Head (Type SPO2 Mk1 S/N - 1052) Radiation  
15/NOV/2000 REPLACE Photometer Head (Now SPO1A Mk1 S/N - 003) Radiation  
31/JAN/2001 REPLACE Photometer Head (Now SPO1A Mk1 S/N - 03) Radiation  
10/MAR/2005 REPLACE Photometer Head (Now SPO1A Mk1 S/N - 03) Radiation  
10/MAR/2005 REPLACE Photometer Head (Now SPO2 Mk1 S/N - 1002) Radiation  
22/DEC/2000 REPLACE Photometer Head (Now SPO2 Mk1 S/N - 1020) Radiation  
31/MAR/2005 REPLACE Photometer Head (Now SPO2 Mk1 S/N - 1029) Radiation  
06/JUL/2005 REPLACE Photometer Head (Now SPO2 Mk1 S/N - 1052) Radiation

Maximum Temperature

18/JUN/1970 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - Unknown) Surface Observations  
30/MAR/2023 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - M2449) Surface Observations  
18/AUG/1999 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 17368) Surface Observations  
09/SEP/2017 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 17368) Surface Observations  
05/JAN/2018 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M2449) Surface Observations  
15/DEC/2011 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M2449) Surface Observations  
08/SEP/2017 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M2449) Surface Observations  
24/OCT/2020 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M2449) Surface Observations  
19/APR/2018 REPLACE Thermometer, Mercury, Max (Now WIKA S/N - 32844) Surface Observations

Soil Temperature 10cm

18/AUG/1999 INSTALL Thermometer, Soil, 10cm (Type Unknown S/N - 1286) Surface Observations  
30/MAR/2023 REMOVE Thermometer, Soil, 10cm (Type Dobros S/N - M2161) Surface Observations  
29/JUN/2015 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - 9604903) Surface Observations  
12/NOV/2007 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - M0871) Surface Observations  
12/MAR/2017 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - M2161) Surface Observations  
09/FEB/2009 REPLACE Thermometer, Soil, 10cm (Now Unknown S/N - 0416363) Surface Observations

Soil Temperature 20cm

18/AUG/1999 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - 11833) Surface Observations  
30/MAR/2023 REMOVE Thermometer, Soil, 20cm (Type Unknown S/N - 0709819) Surface Observations  
15/FEB/2009 REPLACE Thermometer, Soil, 20cm (Now Unknown S/N - 0709819) Surface Observations

Soil Temperature 50cm

18/AUG/1999 INSTALL Thermometer, Soil, 50cm (Type Amarol S/N - 9564476) Surface Observations  
30/MAR/2023 REMOVE Thermometer, Soil, 50cm (Type Amarol S/N - 9564476) Surface Observations

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Extended Climatological Station Metadata  
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<b>Bureau No.:</b>	086282	<b>WMO No.:</b>	94866	<b>Aviation ID:</b>	<b>Opened:</b>	18 Jun 1970	<b>Current Status:</b>	Still open	
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Station Equipment History (continued)

Equipment Install/Remove(Continued)

Snow Height (No Electronic History)

Soil Temperature 100cm

18/AUG/1999 INSTALL Thermometer, Soil, 100cm (Type Amarol S/N - 9859570) Surface Observations  
30/MAR/2023 REMOVE Thermometer, Soil, 100cm (Type Amarol S/N - 9859570) Surface Observations

Sunshine Hours

03/MAY/2004 INSTALL Sunshine Recorder (Type Negretti/Zambra S/N - CMO104) Surface Observations

Wind Run

31/MAR/1998 INSTALL Wind Run Anemometer (Type Munro S/N - CBM448) Surface Observations  
18/AUG/1999 REPLACE Wind Run Anemometer (Now Munro S/N - CBM593) Surface Observations  
13/SEP/2007 REPLACE Wind Run Anemometer (Now Munro S/N - CBM613) Surface Observations  
19/JUL/2014 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 36558) Surface Observations  
24/JAN/2009 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 400) Surface Observations

Minimum Temperature

18/JUN/1970 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - Unknown) Surface Observations  
30/MAR/2023 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - 14469) Surface Observations  
15/DEC/2011 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 13215) Surface Observations  
13/SEP/2017 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 14469) Surface Observations  
18/AUG/1999 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 17254) Surface Observations  
24/AUG/2016 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - CBM3753) Surface Observations  
08/SEP/2017 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - M2674) Surface Observations  
27/JAN/2017 REPLACE Thermometer, Alcohol, Min (Now WIKA S/N - 32446) Surface Observations

Terrestrial Minimum Temperature

14/SEP/2017 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - CBM3753) Surface Observations  
18/AUG/1999 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - S6697) Surface Observations  
14/SEP/2017 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - 23357) Surface Observations  
04/JAN/2019 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19439) Surface Observations  
23/AUG/2016 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 23357) Surface Observations  
23/JUN/2008 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - CBM4337) Surface Observations  
12/OCT/2017 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M2574) Surface Observations  
27/NOV/2009 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 31185) Surface Observations  
21/OCT/2013 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 31836) Surface Observations

Visibility

01/DEC/1991 INSTALL Visibility Meter (Type Unknown S/N - Unknown) Surface Observations  
01/FEB/1997 INSTALL Visibility Meter (Type Vaisala FD12 S/N - 433620) Surface Observations  
01/FEB/1997 REMOVE Visibility Meter (Type Unknown S/N - Unknown) Surface Observations  
12/JUN/2018 REPLACE Visibility Meter (Now Vaisala FS11 S/N - P1950650) 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

18/AUG/1999 INSTALL Radar (Type WF100-6C S/N - Unknown) Upper Air  
18/AUG/1999 INSTALL Radar Interface (Type BOM S/N - NONE) Upper Air

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

21/FEB/2019 REMOVE Radar (Type WF100-6C S/N - Unknown) Upper Air  
21/FEB/2019 REMOVE Radar (Type WF100-6C S/N - Unknown) WeatherWatch  
21/FEB/2019 REMOVE Radar Interface (Type BOM S/N - NONE) Upper Air  
21/FEB/2019 REMOVE Radar Interface (Type BOM S/N - NONE) WeatherWatch  
11/SEP/2000 SHARE Radar (Type WF100-6C S/N - Unknown) WeatherWatch  
11/SEP/2000 SHARE Radar Interface (Type BOM S/N - NONE) WeatherWatch

Total Column Ozone Amount (No Electronic History)

Pressure

18/JUN/1970 INSTALL Barometer (Type Kew pattern mercury S/N - 1813) Surface Observations  
24/JUN/1970 INSTALL Barometer (Type Negretti and Zambra Mk I S/N - CBM080) Surface Observations  
01/AUG/1995 INSTALL Barometer (Type Vaisala PA11A S/N - 661809) Surface Observations  
01/JAN/1990 REMOVE Barometer (Type Kew pattern mercury S/N - 1813) Surface Observations  
18/JAN/1995 REMOVE Barometer (Type Negretti and Zambra Mk I S/N - CBM019) Surface Observations  
05/OCT/1979 REPLACE Barometer (Now Negretti and Zambra Mk I S/N - CBM014) Surface Observations  
26/APR/1983 REPLACE Barometer (Now Negretti and Zambra Mk I S/N - CBM019) Surface Observations  
18/AUG/1999 REPLACE Barometer (Now Vaisala PA11A S/N - T1450035) Surface Observations  
01/NOV/2012 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - G2120006) Surface Observations

Evaporation

31/MAR/1998 INSTALL Evaporation Pan (Type Class A S/N - Unknown) Surface Observations  
18/AUG/1999 REPLACE Evaporation Pan (Now Class A S/N - Unknown) Surface Observations  
29/MAR/2019 REPLACE Evaporation Pan (Now Class A S/N - Unknown) Surface Observations

Rainfall

01/JUN/1970 INSTALL Pluviograph (Type Unknown S/N - Unknown) Rainfall Intensity  
01/MAY/1996 REMOVE Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity  
18/JUN/1970 REPLACE Pluviograph (Now Dines syphoning S/N - Unknown) Rainfall Intensity  
18/JUN/1970 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations  
12/MAY/1995 INSTALL Raingauge (Type HS TB3A-0.2 S/N - 94-109) Rainfall Intensity  
01/AUG/1995 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - 83) Surface Observations  
26/FEB/1998 REMOVE Raingauge (Type Rimco 7499 TBRG S/N - 83) Surface Observations  
18/AUG/1999 REPLACE Raingauge (Now 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations  
18/AUG/1999 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 98-217) Rainfall Intensity  
18/AUG/1999 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 98-217) Surface Observations  
07/MAR/2003 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 00829) Rainfall Intensity  
07/MAR/2003 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 00829) Surface Observations  
26/FEB/1998 SHARE Raingauge (Type HS TB3A-0.2 S/N - 94-109) Surface Observations  
26/FEB/1998 SHARE Raingauge (Type HS TB3A-0.2 S/N - 98-217) Surface Observations  
15/JUL/2020 UNSHARE Raingauge (Type Rimco 7499 TBRG S/N - 00829) Rainfall Intensity

River Height (No Electronic History)

Solar Radiation

10/JUN/1999 INSTALL Global Pyranometer Mount (Type Carter Scott Mk1 S/N - Unknown) Radiation  
10/JUN/1999 INSTALL Pyranometer (Type Kipp&Zonen CM11 S/N - 924009) Radiation  
10/JUN/1999 INSTALL Pyranometer (Type Kipp&Zonen CM11 S/N - 924047) Radiation  
08/AUG/2006 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 048543) Radiation

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							<b>Metadata compiled:</b> 28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

22/MAY/2006 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 058746) Radiation  
08/AUG/2006 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 058747) Radiation  
19/MAR/2007 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 058748) Radiation  
22/MAY/2006 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 058750) Radiation

Solar Radiation (Direct)

10/JUN/1999 INSTALL Pyrheliometer (Type Kipp&Zonen CH1 S/N - 940055) Radiation

Turbidity (No Electronic History)

Sea Water Level (No Electronic History)

Sea Water Temperature (No Electronic History)

Wind Speed

18/JUN/1970 INSTALL Anemometer (Type Dines S/N - Unknown) Surface Observations  
14/SEP/2000 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 72373) Surface Observations  
01/AUG/1995 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations  
06/MAR/1997 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - WD=69445 WS=69535) Surface Observations  
01/AUG/1995 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - NONE) Infrastructure  
31/MAR/1998 INSTALL Wind Run Anemometer (Type Munro S/N - CBM448) Surface Observations  
23/JUL/1995 REMOVE Anemometer (Type Dines S/N - Unknown) Surface Observations  
06/MAR/1997 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations  
14/SEP/2000 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 72345) Surface Observations  
03/APR/2014 REPLACE Mast Anemometer (Now Pivot, Standard 8m S/N - NONE) Infrastructure  
18/AUG/1999 REPLACE Wind Run Anemometer (Now Munro S/N - CBM593) Surface Observations  
13/SEP/2007 REPLACE Wind Run Anemometer (Now Munro S/N - CBM613) Surface Observations  
19/JUL/2014 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 36558) Surface Observations  
24/JAN/2009 REPLACE Wind Run Anemometer (Now Synchrotac S/N - 400) Surface Observations

Air Temperature

01/JUL/2021 INSTALL Humidity Probe (Type Vaisala HMP155A S/N - T1311040) Surface Observations  
01/AUG/1995 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 0486) Surface Observations  
18/JUN/1970 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - Unknown) Surface Observations  
30/MAR/2023 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 16852) Surface Observations  
18/AUG/1999 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 15974) Surface Observations  
15/DEC/2011 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 16852) 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
13/APR/1999 - 22/JUL/2019	Cloud Height	1
10/JUN/2008 - 10/MAY/2012	Pressure Trend	0
15/JAN/2014 - 02/DEC/2014	Lightning	1
25/MAR/1998 - 10/MAR/2021	Wind Direction	5

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Station Equipment History (continued)

Available Date Range	Element	Fail Field Performance Check
18/NOV/1997 - 22/JUL/2019	Wet Bulb Temperature	1
10/JUN/2008 - 02/DEC/2014	Maximum Temperature	0
10/JUN/2008 - 02/DEC/2014	Soil Temperature 10cm	0
10/JUN/2008 - 02/DEC/2014	Soil Temperature 20cm	0
10/JUN/2008 - 02/DEC/2014	Soil Temperature 50cm	0
10/JUN/2008 - 02/DEC/2014	Soil Temperature 100cm	0
10/JUN/2008 - 15/JUL/2020	Wind Run	0
10/JUN/2008 - 02/DEC/2014	Minimum Temperature	0
23/JUN/2008 - 02/DEC/2014	Terrestrial Minimum Temperature	1
07/JUL/1998 - 22/JUL/2019	Visibility	14
07/OCT/2004 - 22/DEC/2017	RF Reflectivity	1
14/NOV/1997 - 12/MAR/2020	Pressure	0
10/JUN/2008 - 15/JUL/2020	Evaporation	0
26/FEB/1998 - 03/MAR/2021	Rainfall	2
25/MAR/1998 - 10/MAR/2021	Wind Speed	5
18/NOV/1997 - 03/MAR/2021	Air Temperature	0

Station Detail Changes

09/MAY/2006 CLASSIFICATION AWS Funding - Aviation Funded Assets (AVAF)  
12/OCT/2020 CLASSIFICATION AWS Priority 1 - Critical (SLP1-AWS)  
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/JUN/2014 CLASSIFICATION Critical Aviation or Defence (AVCRIT) ENDED 16-10-2020  
01/JUL/1998 CLASSIFICATION Information and Observations (MIO) ENDED 18-11-2002  
02/AUG/2021 CLASSIFICATION Mastered in EAMS (EAMS)  
01/JAN/2017 CLASSIFICATION Melbourne FIR Majors (MEL\_FIR\_1)  
18/NOV/2002 CLASSIFICATION Observations Only (MO)  
01/JUL/2017 CLASSIFICATION Observing Operations Hub - Melbourne (OOH-M)  
21/MAR/2016 CLASSIFICATION Processed by ASOS (PBA)  
01/JUL/1998 CLASSIFICATION Rawinsonde Stations (RS)  
04/MAY/2000 CLASSIFICATION Regional Basic Synoptic Network (RBSN)  
01/JAN/2017 CLASSIFICATION Victoria (1) (VIC\_1)  
22/JUN/2016 OBJECT Document/CEILOMETER STATUS  
10/FEB/2017 OBJECT Document/CEILOMETER STATUS  
22/JUL/2019 OBJECT Document/CEILOMETER STATUS  
22/OCT/2014 OBJECT Document/CEILOMETER STATUS  
13/MAY/2015 OBJECT Document/CEILOMETER STATUS  
17/NOV/2015 OBJECT Document/CEILOMETER STATUS  
16/NOV/2011 OBJECT Document/CEILOMETER STATUS  
10/DEC/2013 OBJECT Document/CEILOMETER STATUS  
03/JUN/2011 OBJECT Document/CEILOMETER STATUS

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## Extended Climatological Station Metadata

All History

<b>Station:</b>	MELBOURNE AIRPORT			<b>Location:</b>	MELBOURNE AIRPORT			<b>State:</b>	VIC
<b>Bureau No.:</b>	086282	<b>WMO No.:</b>	94866	<b>Aviation ID:</b>	YMML	<b>Opened:</b>	18 Jun 1970	<b>Current Status:</b>	Still open
<b>Latitude:</b>	-37.6654	<b>Longitude:</b>	144.8322	<b>Elevation:</b>	113.4 m	<b>Barometer Elev:</b>	115.7 m	<b>Metadata compiled:</b>	28 JUL 2025

### Station Equipment History (continued)

#### Station Detail Changes(Continued)

14/SEP/2018 OBJECT Document/CEILOMETER STATUS  
06/JUN/2012 OBJECT Document/CEILOMETER STATUS  
15/MAR/2013 OBJECT Document/CEILOMETER STATUS  
23/JUL/2019 OBJECT Document/Melbourne Airport Central Mast Inspection  
26/FEB/2020 OBJECT Document/NOTIFICATION BEFORE MAINTENANCE  
02/DEC/2014 OBJECT Document/SKYLINE DATA  
12/MAR/2020 OBJECT Document/SKYLINE DATA  
15/JUL/2020 OBJECT Document/SKYLINE DATA  
17/OCT/2007 OBJECT Document/SKYLINE DATA  
07/MAR/2007 OBJECT Document/SKYLINE DATA  
11/AUG/2020 OBJECT Document/SKYLINE DATA - ANEMOMETER  
10/JUN/2008 OBJECT Document/SKYLINE DATA - ANEMOMETER  
22/JUN/2016 OBJECT Document/VISIBILITY METER STATUS  
10/FEB/2017 OBJECT Document/VISIBILITY METER STATUS  
22/JUL/2019 OBJECT Document/VISIBILITY METER STATUS  
22/OCT/2014 OBJECT Document/VISIBILITY METER STATUS  
13/MAY/2015 OBJECT Document/VISIBILITY METER STATUS  
17/NOV/2015 OBJECT Document/VISIBILITY METER STATUS  
16/NOV/2011 OBJECT Document/VISIBILITY METER STATUS  
10/DEC/2013 OBJECT Document/VISIBILITY METER STATUS  
03/JUN/2011 OBJECT Document/VISIBILITY METER STATUS  
14/SEP/2018 OBJECT Document/VISIBILITY METER STATUS  
06/JUN/2012 OBJECT Document/VISIBILITY METER STATUS  
15/MAR/2013 OBJECT Document/VISIBILITY METER STATUS  
12/JUN/2018 OBJECT Document/VISIBILITY METER STATUS  
18/JUN/1970 STATION - (nondb seeding) Opened  
18/JUN/1970 STATION - (nondb seeding) aero\_ht Changed to 132.3  
18/JUN/1970 STATION - (nondb seeding) bar\_ht Changed to 141.1  
18/JUN/1970 STATION - (nondb seeding) bar\_ht\_deriv Changed to SURVEY  
18/JUN/1970 STATION - (nondb seeding) name Changed to MELBOURNE AIRPORT  
18/JUN/1970 STATION - (nondb seeding) stn\_ht Changed to 132  
18/JUN/1970 STATION - (nondb seeding) stn\_ht\_deriv Changed to SURVEY  
18/JUN/1970 STATION - (nondb seeding) wmo\_num Changed to 94866  
18/JUN/1970 STATION aviation\_id Changed to YMML  
16/AUG/1999 STATION bar\_ht Changed to 115.67  
16/AUG/1999 STATION bar\_ht\_deriv Changed to SURVEY  
18/JUN/1970 STATION latitude Changed to -37.66542WGS84  
18/JUN/1970 STATION latlon\_deriv Changed to GPS  
18/JUN/1970 STATION latlon\_error Changed to 3  
18/JUN/1970 STATION longitude Changed to 144.83217WGS84  
31/MAR/1998 STATION lu\_0\_100m Changed to Airport  
31/MAR/1998 STATION lu\_100m\_1km Changed to Airport  
31/MAR/1998 STATION lu\_1km\_10km Changed to Open farmland, grassland or tundra

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Extended Climatological Station Metadata  
All History

<b>Station:</b> MELBOURNE AIRPORT			<b>Location:</b> MELBOURNE AIRPORT			<b>State:</b> VIC			
<b>Bureau No.:</b>	086282	<b>WMO No.:</b>	94866	<b>Aviation ID:</b>	<b>Opened:</b>	18 Jun 1970	<b>Current Status:</b>	Still open	
<b>Latitude:</b>	-37.6654	<b>Longitude:</b>	144.8322	<b>Elevation:</b>	113.4 m	<b>Barometer Elev:</b>	115.7 m	<b>Metadata compiled:</b>	28 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

31/MAR/1998 STATION soil\_type Changed to clay  
16/AUG/1999 STATION stn\_ht Changed to 113.4  
16/AUG/1999 STATION stn\_ht\_deriv Changed to SURVEY  
18/AUG/1999 STATION stn\_ht\_deriv Changed to SURVEY  
15/JUL/2020 STATION surface\_type Changed to fully covered by grass  
31/MAR/1998 STATION surface\_type Changed to partly covered by grass

System Changes

01/AUG/1995 SYSTEM Infrastructure Commenced  
10/JUN/1999 SYSTEM Radiation Commenced  
15/JUL/2020 SYSTEM Rainfall Intensity Ceased  
01/JUN/1970 SYSTEM Rainfall Intensity Commenced  
01/JAN/2006 SYSTEM Reference Standards Commenced  
18/JUN/1970 SYSTEM Surface Observations Commenced  
18/AUG/1999 SYSTEM Upper Air Commenced  
11/SEP/2000 SYSTEM WeatherWatch Commenced

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## Notes on these metadata

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

### Reliability of the metadata

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

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

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

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

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

### Station Number

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

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

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## Notes on these metadata

### Network Classification

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

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

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## Notes on these metadata

### Network Classification Continued....

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

### Station Purpose

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

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

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

### Station Observation Program Summary

#### Surface Observations

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

Set a)

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

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## Notes on these metadata

### Surface observations continued....

#### Set b)

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

### Current Station Equipment Summary

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

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

### Station Equipment History

#### Equipment Install/Remove

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

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

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

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

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

**Unshare** - The instrument is no longer shared between systems

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## Notes on these metadata

### Calibration

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

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

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

### Station Detail Changes

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

#### - STATION

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

#### Station position

##### - Latitude and longitude

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

##### - Height

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

Heights which may appear in these metadata are:

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

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## Notes on these metadata

### - Land Use

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

#### Defined Land use Types.

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

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

- lu\_0\_100m: Land Use 0 to 100 metres from the enclosure
- lu\_100m\_1km: Land Use 100 metres to 1 kilometre
- lu\_1km\_10km: Land Use 1 kilometre to 10 kilometres

#### Defined Soil Type (At Enclosure).

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

#### Surface Type (At Enclosure).

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

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