



Basic Climatological Station Metadata  
Current status

Metadata compiled: 26 JUL 2025

Station: KALGOORLIE-BOULDER AIRPORT

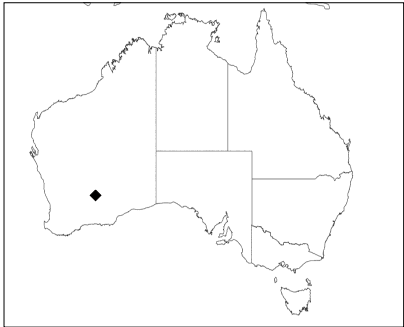
Bureau of Meteorology station number: 012038  
Bureau of Meteorology district name: South East  
State: WA

World Meteorological Organization number: 94637  
Identification: YPKG

Network Classification: CLIMAT Stations, CLIMAT TEMP 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	-30.7847	Hour Min Sec	30°47'5"S
Longitude	Decimal	121.4533	Hour Min Sec	121°27'12"E
Station Height	365.3 m	Barometer Height	366 m	
Method of station geographic positioning			GPS	

Year opened: 1939  
Status: Open

Station summary

No summary for this site has been written as yet.

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



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Current status

<b>Station:</b> KALGOORLIE-BOULDER AIRPORT		<b>Location:</b> KALGOORLIE-BOULDER AIRPORT		<b>State:</b> WA	
<b>Bureau No.:</b> 012038	<b>WMO No.:</b> 94637	<b>Aviation ID:</b> YPKG	<b>Opened:</b> 23 Feb 1939		<b>Current Status:</b> Still open
<b>Latitude:</b> -30.7847	<b>Longitude:</b> 121.4533	<b>Elevation:</b> 365.3 m	<b>Barometer Elev:</b> 366 m	<b>Metadata compiled:</b> 26 JUL 2025	

Observation summary

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



DAILY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
EVAPORATION	NOV 1966	NOV 2016	93.5	1143	1
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	FEB 1969	JUN 2011	82.3	764	65
GROUND MINIMUM TEMPERATURE	DEC 1965	APR 2016	91.9	1455	1
MAXIMUM AIR TEMPERATURE	APR 1939	JUN 2025	97.0	129	26
MAXIMUM WIND GUST SPEED	OCT 1939	JUN 2025	98.9	308	1
WIND RUN ABOVE 10 FEET	FEB 1994	JUN 2025	97.3	274	1
WIND RUN BELOW 10 FEET	FEB 1969	NOV 2016	92.2	1167	6
RAINFALL	MAR 1939	JUL 2025	99	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	MAR 1939	JUN 2025	98.2	8.7	198	0
DEW POINT	MAR 1939	JUN 2025	91.6	8.9	84	76
MEAN SEA LEVEL PRESSURE	JUL 1951	JUN 2025	99.6	9.1	8	0
PRECIPITATION SINCE LAST OBS	OCT 1959	AUG 1999	77.5	5.7	2862	4
SOIL TEMPERATURE - 10cm	SEP 1963	APR 2016	66.9	5.7	1125	161
TOTAL CLOUD AMOUNT	MAR 1939	JUN 2025	91.4	6.3	1585	0
WIND SPEED	MAR 1939	JUN 2025	98.9	8.7	62	0
UPPER AIR TEMPERATURE	DEC 1949	JUN 2025	77.2	1.3	4087	2
UPPER AIR WIND SPEED	JAN 1950	JUN 2025	82.5	3.2	2129	16

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						<b>Metadata compiled:</b>	26 JUL 2025

RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	JAN 1939	NOV 2017	65.8	2603	238

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	SEP 2002	JUL 2025	99.3	1430.0	N/A	0

HALF-HOURLY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	JAN 1994	JUL 2025	102.3	49.1	N/A	3

UPPER-AIR EDT DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
Wind only flights	Jun 2006	Apr 2018	N/A	1.1	898	63
Wind, temperature and pressure flights	Mar 1991	Apr 2018	N/A	1.3	1097	1

Holdings calculated up to 01 Jul 2025

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

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

Unlisted element

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

Listed element to use

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

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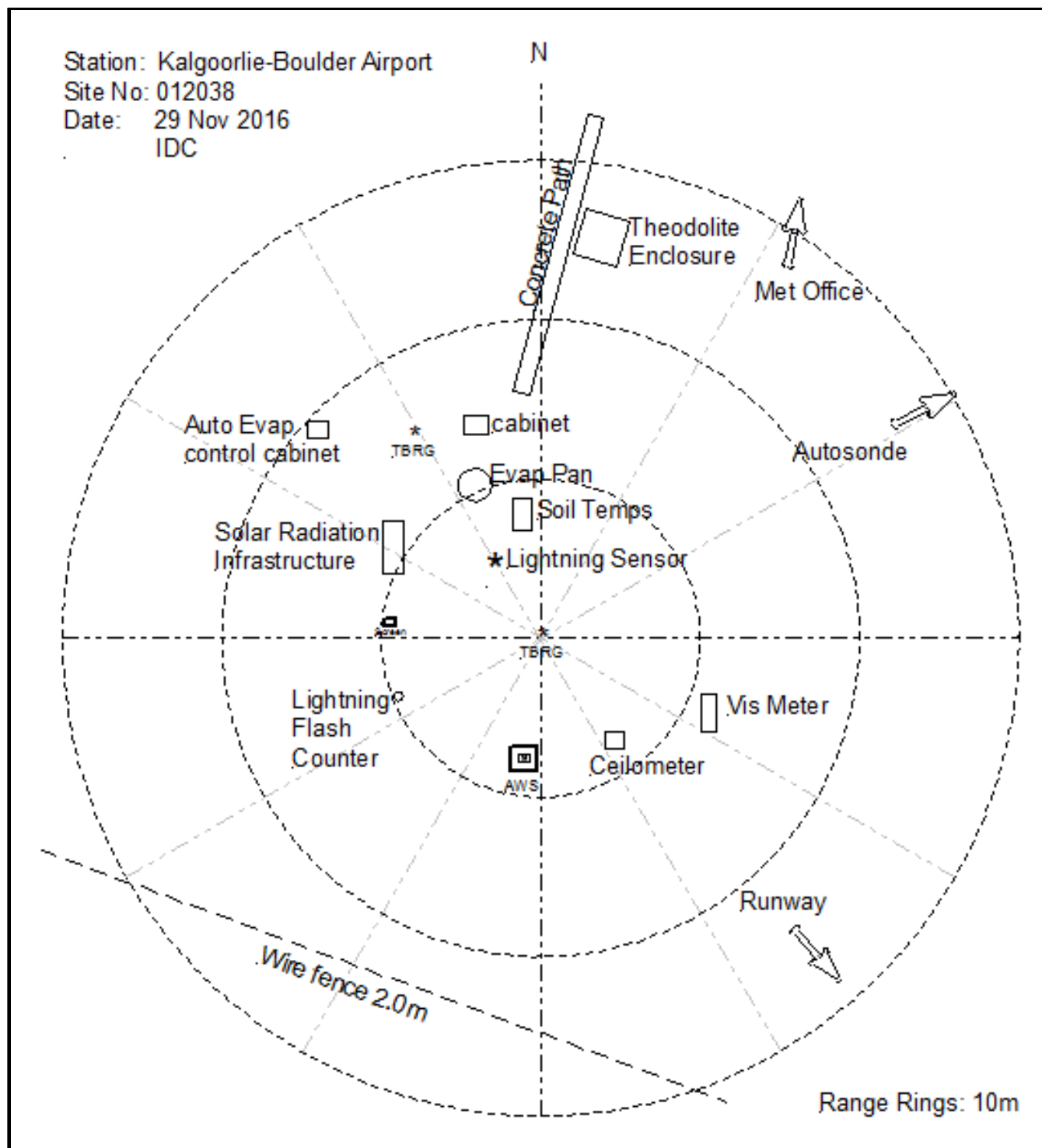
## Extended Climatological Station Metadata

All History

<b>Station:</b>	KALGOORLIE-BOULDER AIRPORT			<b>Location:</b>	KALGOORLIE-BOULDER AIRPORT		<b>State:</b>	WA	
<b>Bureau No.:</b>	012038	<b>WMO No.:</b>	94637	<b>Aviation ID:</b>	YPKG	<b>Opened:</b>	23 Feb 1939	<b>Current Status:</b>	Still open
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### Instrument Location and Surrounding Features

29/11/2016(most recent)



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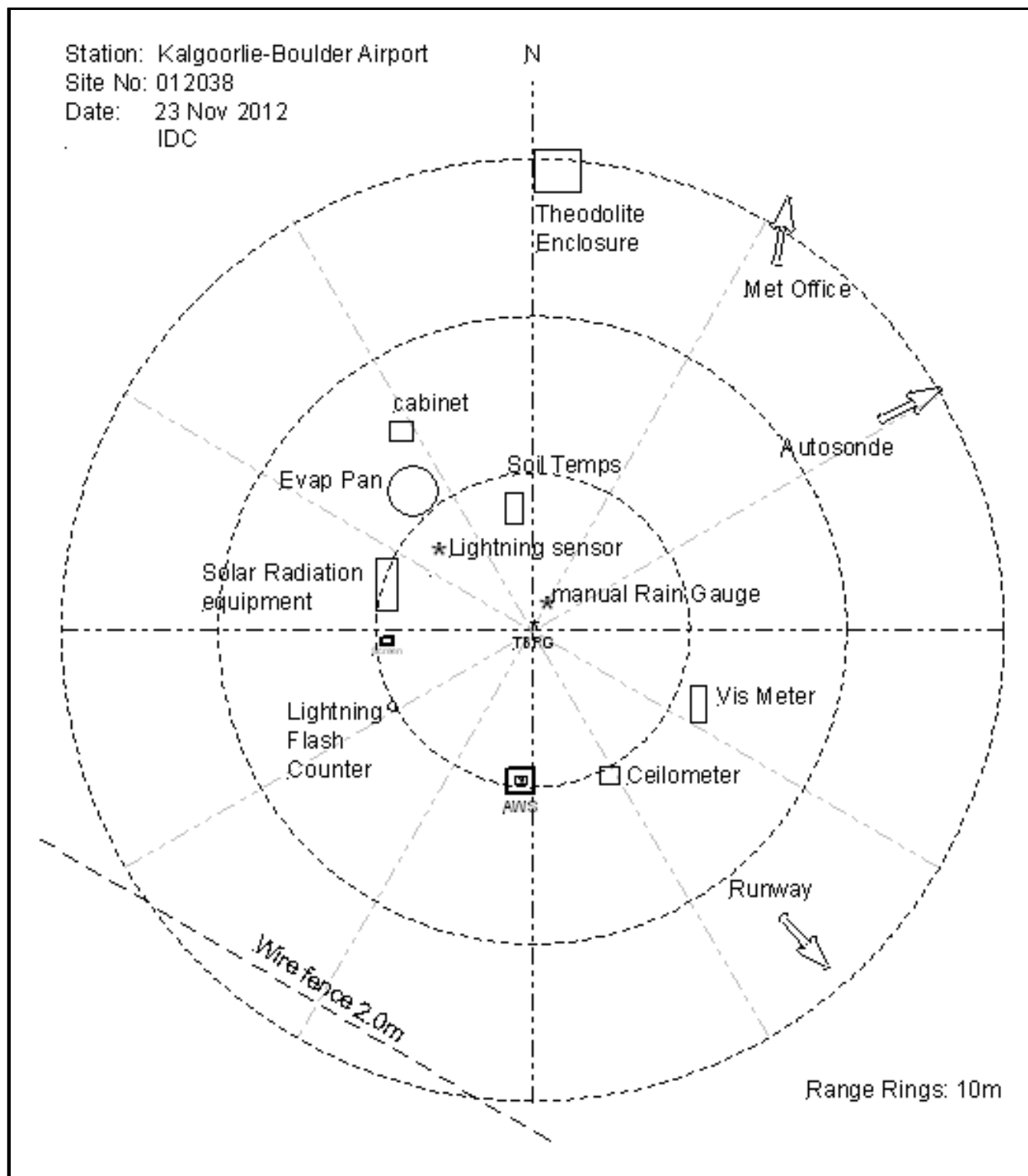
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### Instrument Location and Surrounding Features

23/11/2012



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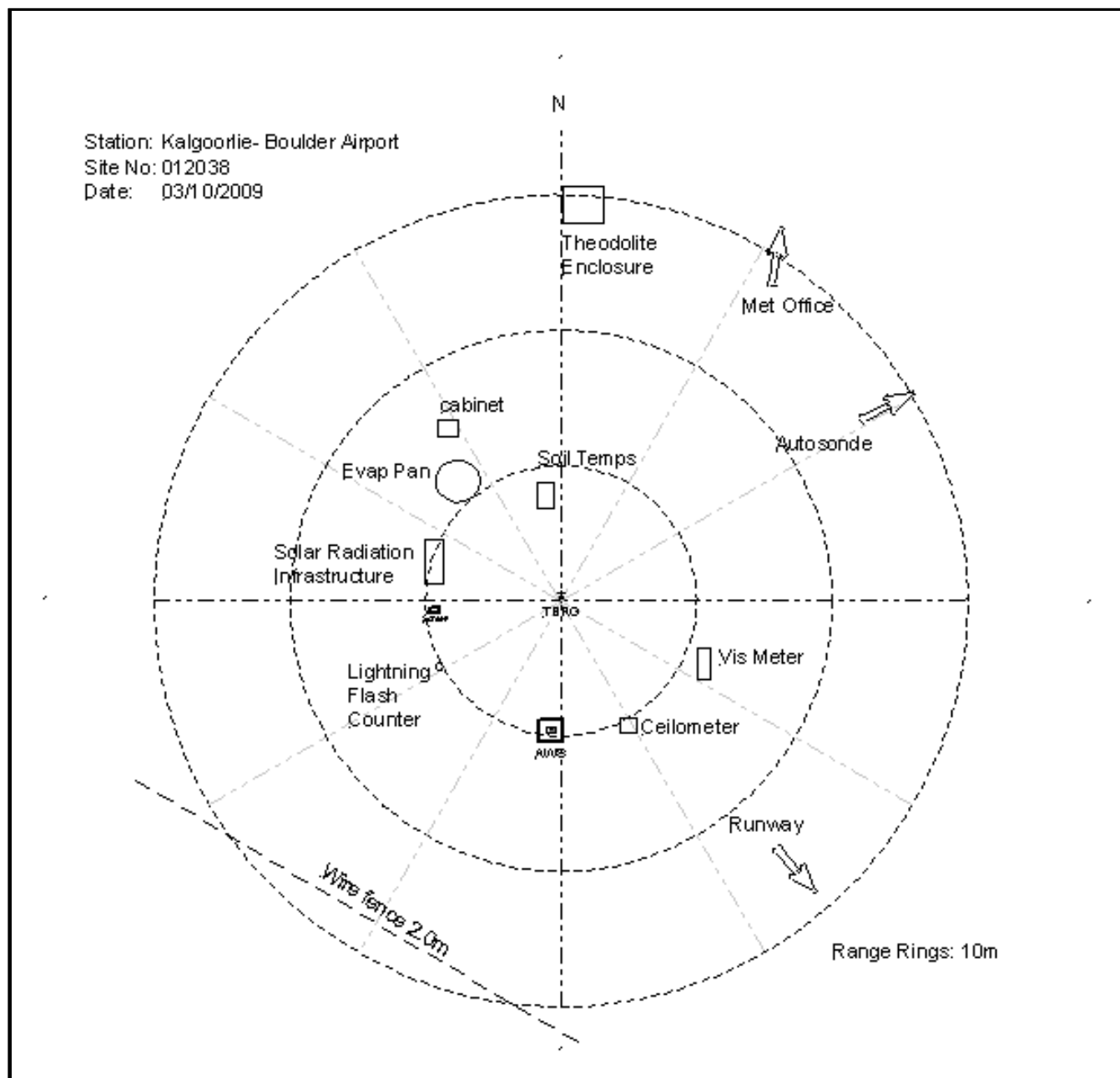
## Extended Climatological Station Metadata

All History

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### Instrument Location and Surrounding Features

03/10/2009



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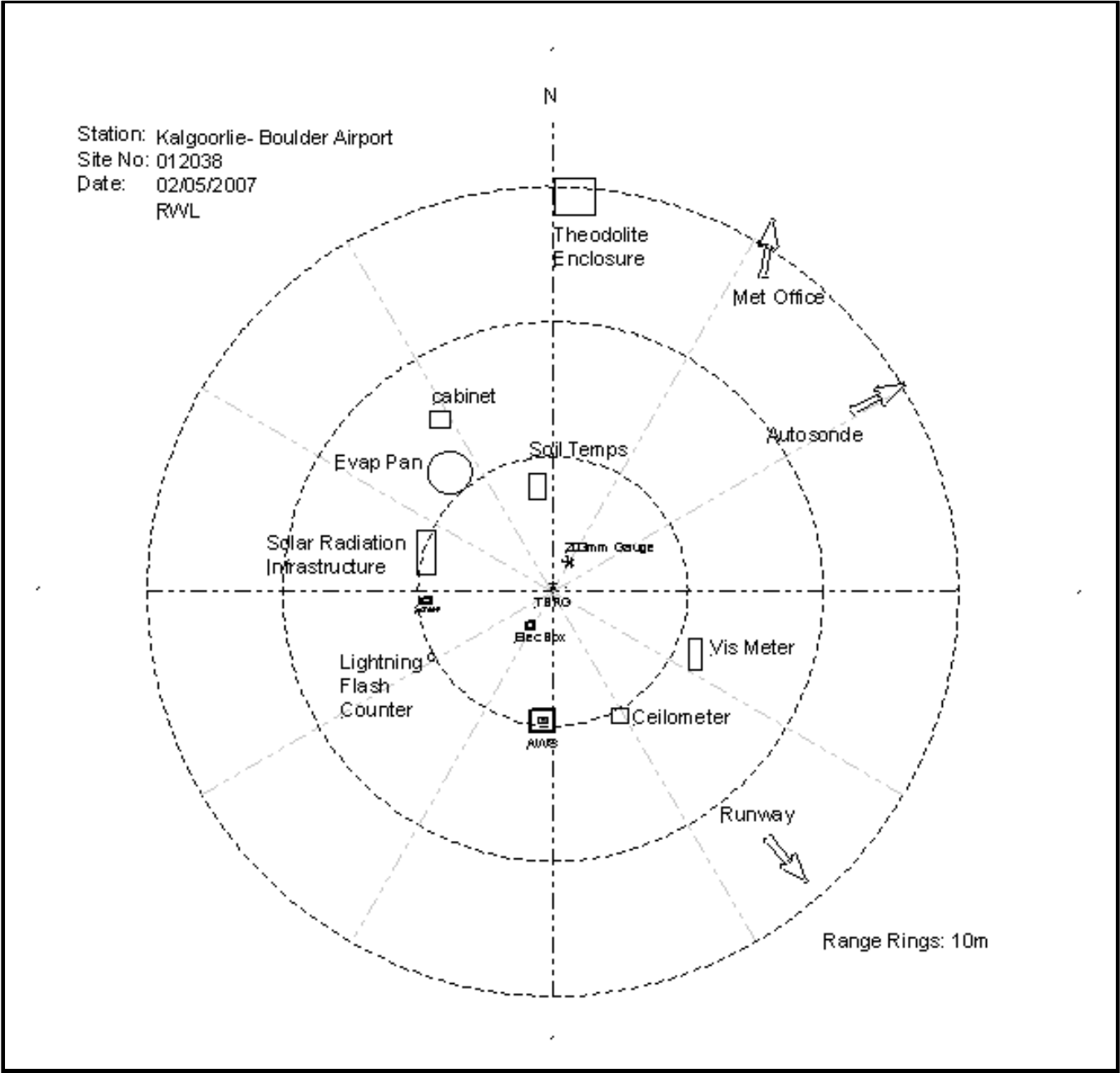
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Extended Climatological Station Metadata  
All History

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						Current Status:	Still open
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Instrument Location and Surrounding Features  
02/05/2007



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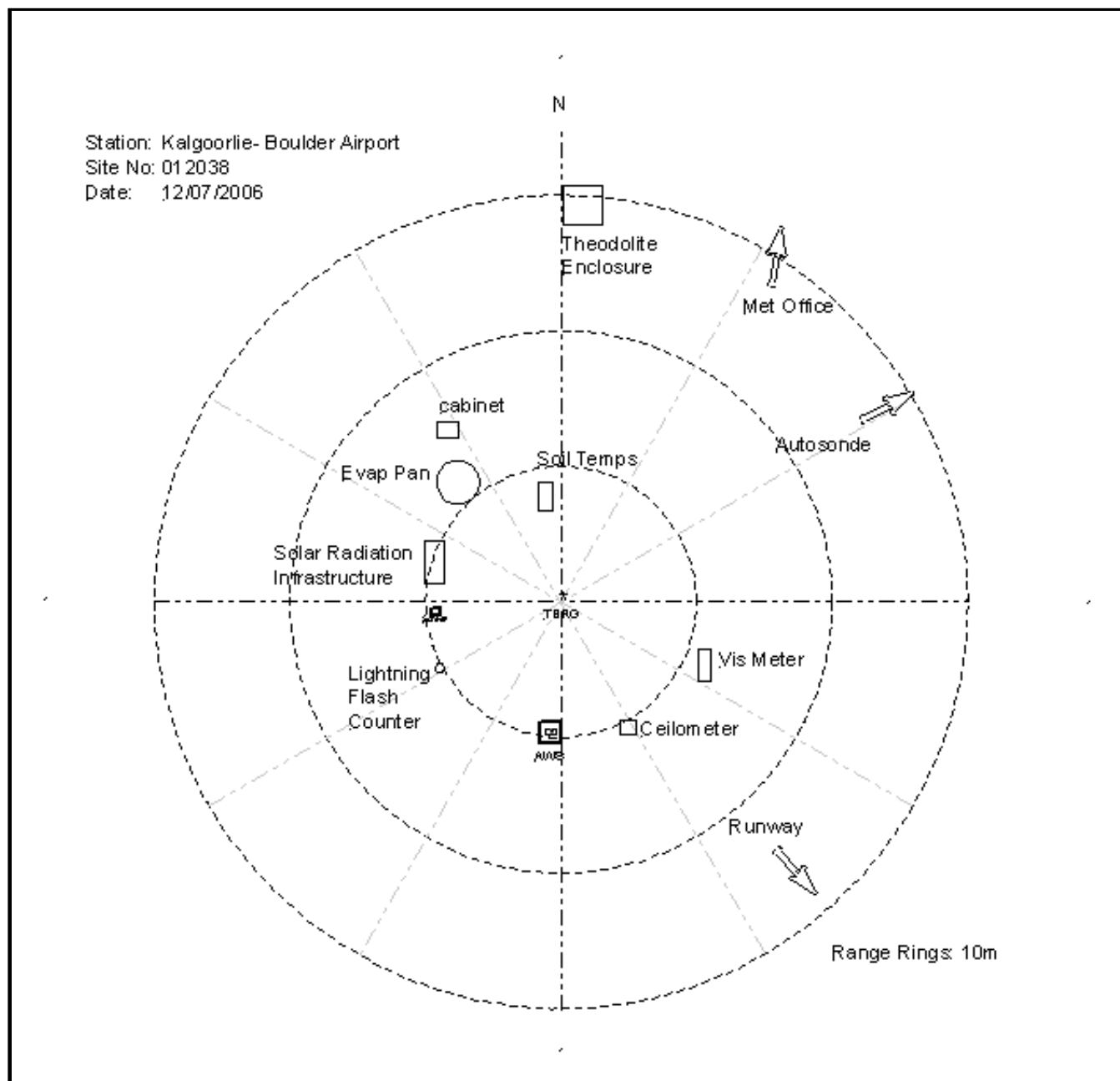
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All History

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### Instrument Location and Surrounding Features

12/07/2006



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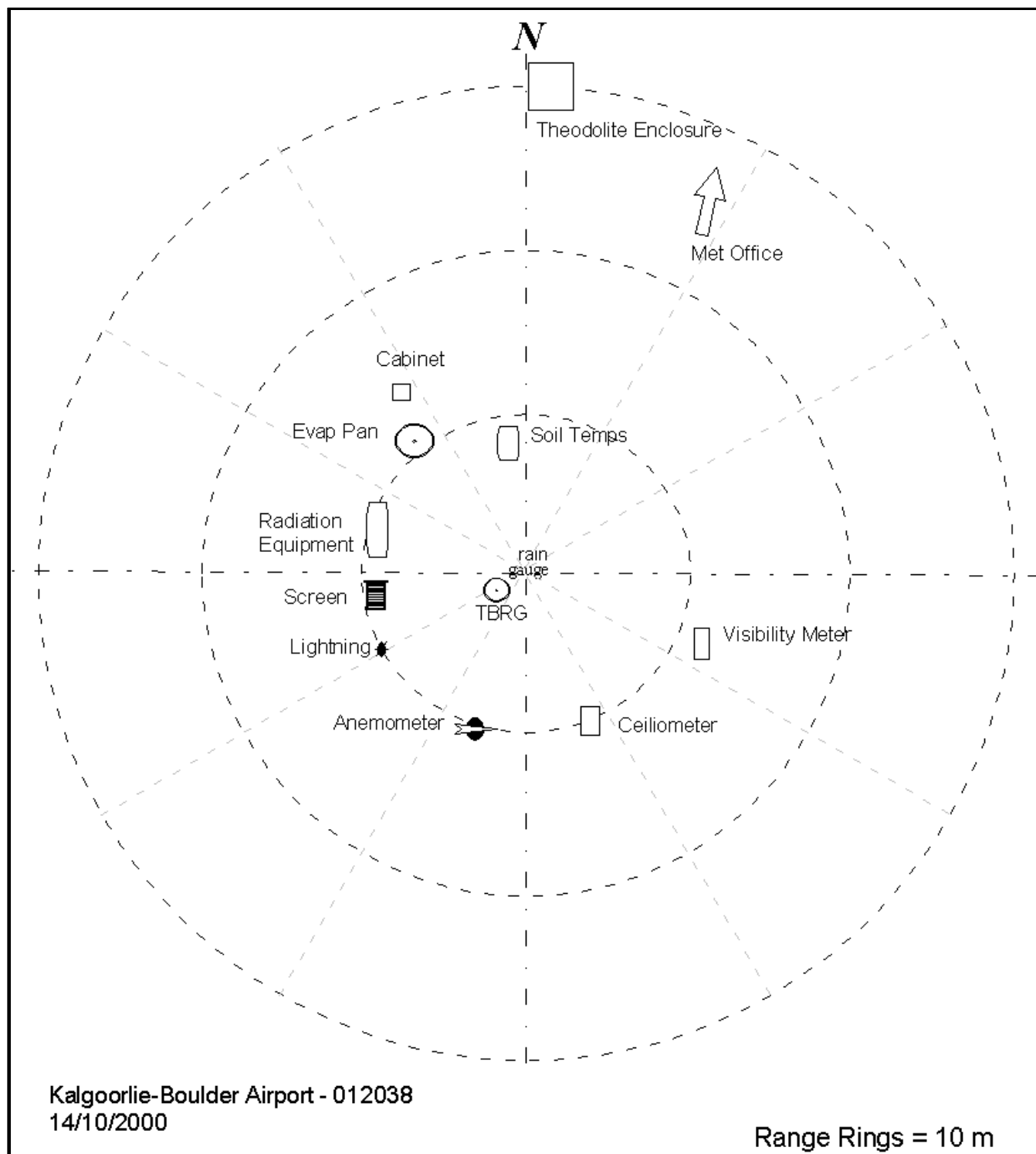
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## Instrument Location and Surrounding Features

14/10/2000



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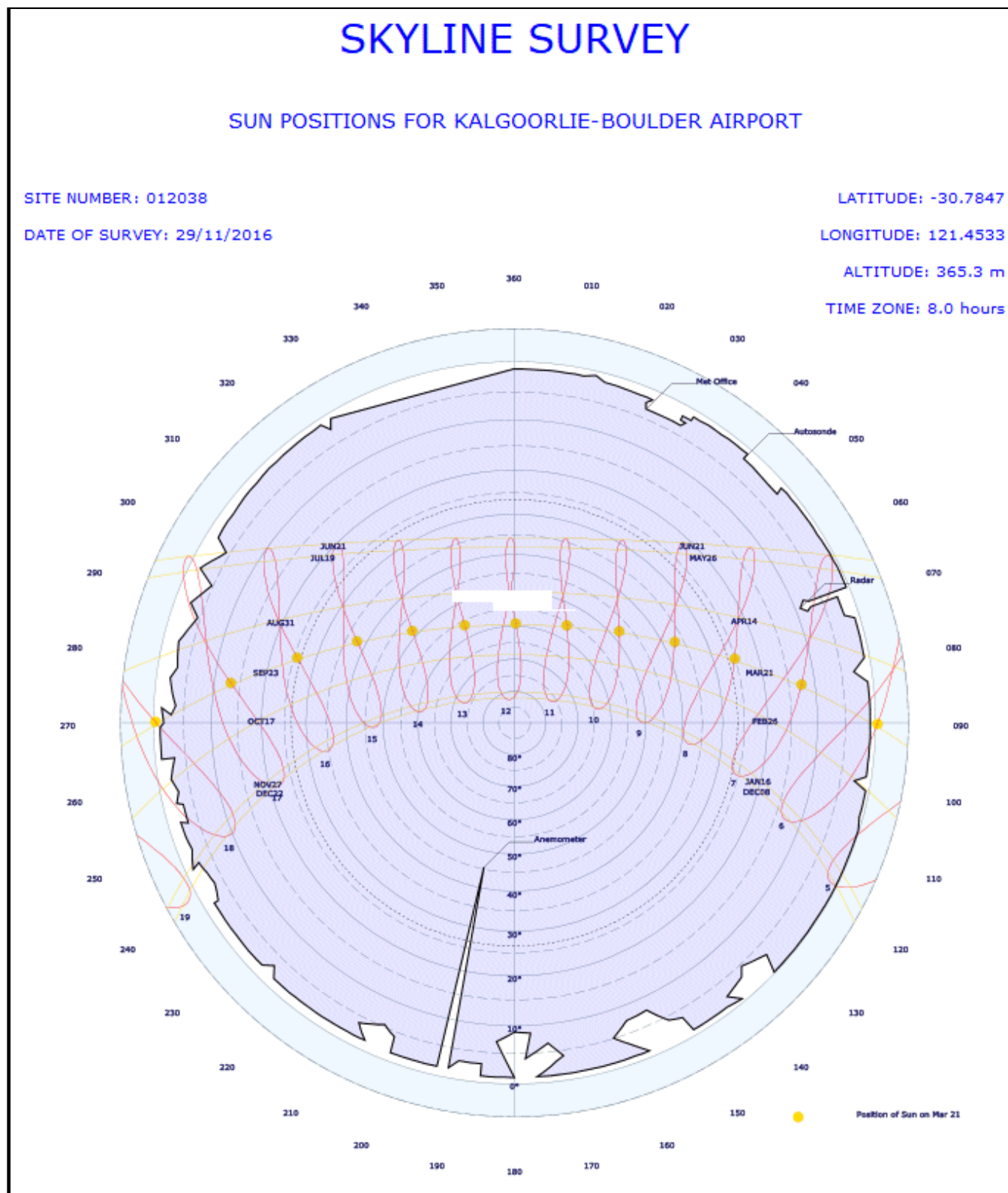
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### Skyline Diagram

29/11/2016(most recent)



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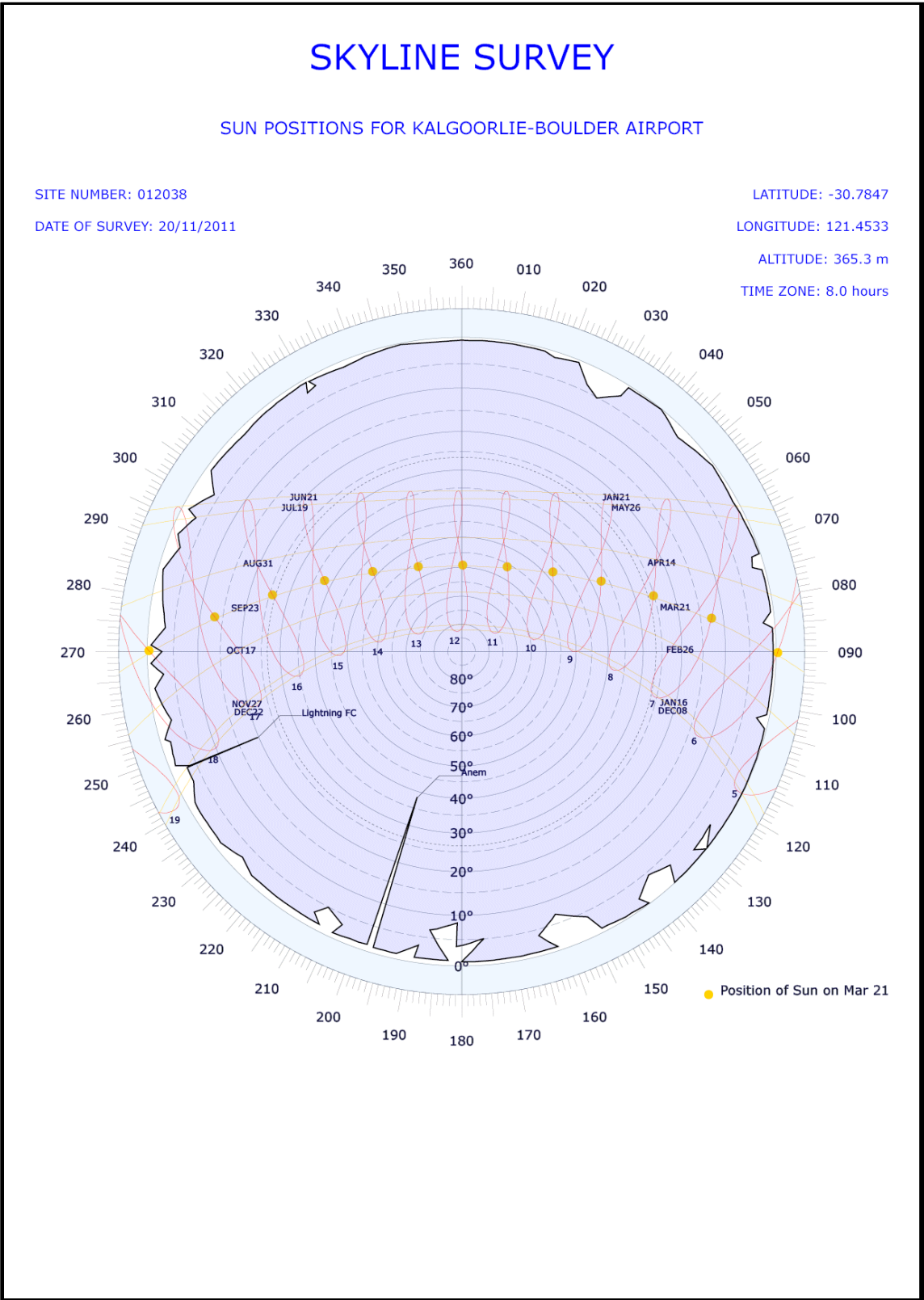
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All History

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Skyline Diagram  
20/11/2011



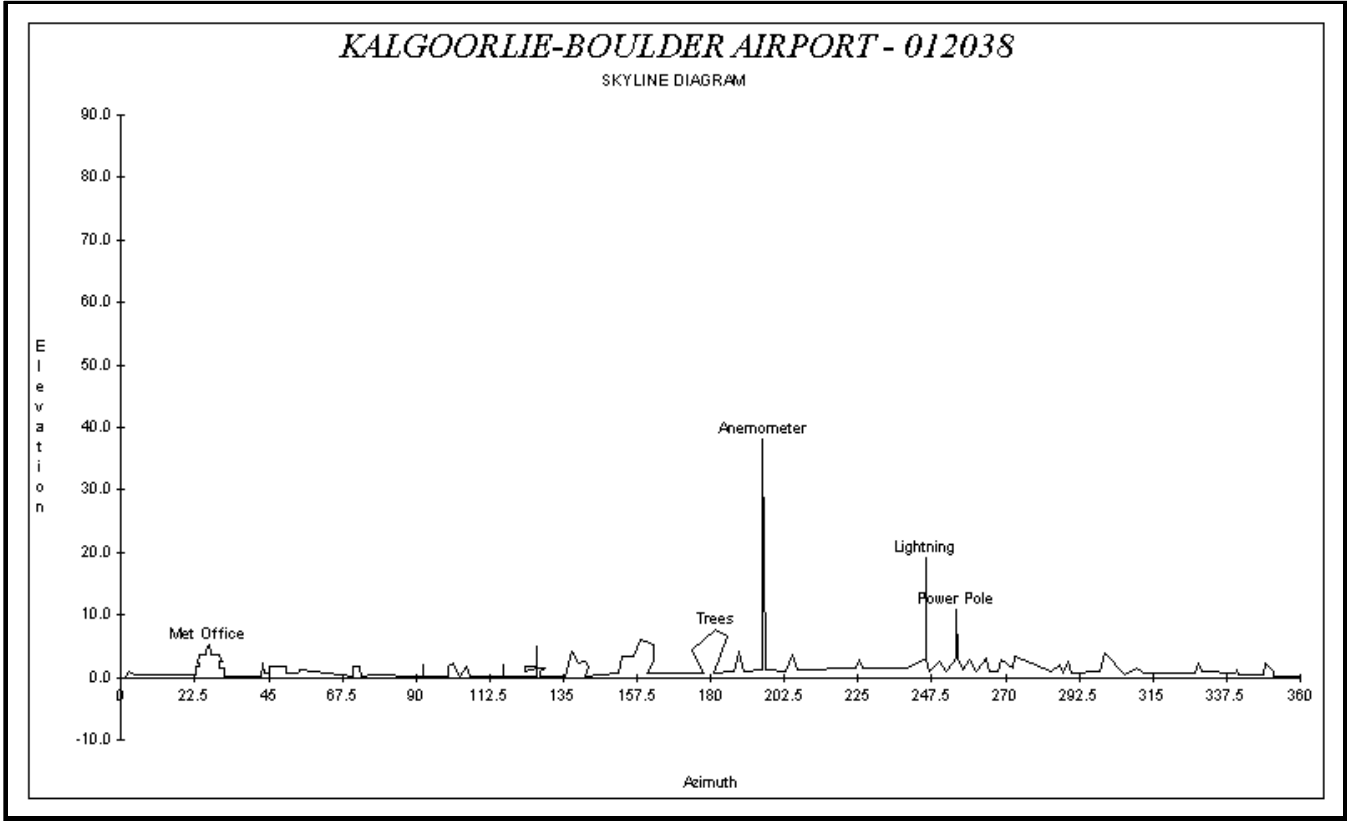
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Skyline Diagram  
14/10/2000



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Station Observation Program Summary (Surface Observations) from 01/03/1939 to 28/02/1998

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 28/02/1998 to 13/09/2002

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	Y	Y

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

Station Observation Program Summary (Surface Observations) from 13/09/2002 to 28/04/2016

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

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

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

Upper Air Routine 01/12/1949 to 01/01/1950

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

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Station meta

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

y nor accept



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Upper Air Routine 01/01/1950 to 01/07/1999

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	-
Wind & Temp.	18:00	-	-	-	-	-	-	-
Wind	00:00	Y	Y	Y	Y	Y	Y	Y
Wind	06:00	Y	Y	Y	Y	Y	Y	Y
Wind	12:00	Y	Y	Y	Y	Y	Y	Y
Wind	18:00	-	-	-	-	-	-	-

Upper Air Routine 01/07/1999 to 22/09/2000

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	-
Wind & Temp.	18:00	-	-	-	-	-	-	-
Wind	00:00	Y	Y	Y	Y	Y	Y	Y
Wind	06:00	Y	Y	Y	Y	Y	Y	Y
Wind	12:00	Y	Y	Y	Y	Y	Y	Y
Wind	18:00	-	-	-	-	-	-	-

Upper Air Routine 22/09/2000 to 05/01/2005

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

Upper Air Routine 05/01/2005 to 01/08/2012

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

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Wind	18:00	-	-	-	-	-	-	-
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Extended Climatological Station Metadata  
All History

<b>Station:</b>	KALGOORLIE-BOULDER AIRPORT		<b>Location:</b>	KALGOORLIE-BOULDER AIRPORT		<b>State:</b>	WA
<b>Bureau No.:</b>	012038	<b>WMO No.:</b>	94637	<b>Aviation ID:</b>	YPKG	<b>Opened:</b>	23 Feb 1939
<b>Latitude:</b>	-30.7847	<b>Longitude:</b>	121.4533	<b>Elevation:</b>	365.3 m	<b>Current Status:</b>	Still open
				<b>Barometer Elev:</b>	366 m	<b>Metadata compiled:</b>	26 JUL 2025

Upper Air Routine 01/08/2012 (most recent)

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

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All History

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						<b>Barometer Elev:</b>	366 m
							<b>Metadata compiled:</b> 26 JUL 2025

## Station Equipment History

### Equipment Install/Remove

#### Cloud Height

27/MAY/1998 INSTALL Ceilometer (Type Vaisala CT12K S/N - 03973 78E) Surface Observations  
27/AUG/2019 REPLACE Ceilometer (Now Vaisala CL31 S/N - R2110434) Surface Observations  
07/OCT/2003 REPLACE Ceilometer (Now Vaisala CT12K S/N - 0397377E) Surface Observations  
27/MAR/2006 REPLACE Ceilometer (Now Vaisala CT12K S/N - 596367E) Surface Observations  
31/MAR/2009 REPLACE Ceilometer (Now Vaisala CT25K S/N - C10302) Surface Observations  
01/MAR/1939 INSTALL Cloud Base Searchlight (Type 90 Degree S/N - Unknown) Surface Observations  
27/MAY/1998 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - NONE) Surface Observations  
07/SEP/1993 REPLACE Cloud Base Searchlight (Now 63 Degree S/N - NONE) Surface Observations

#### Humidity

21/SEP/2016 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 61421998) Surface Observations  
31/MAR/2009 INSTALL Humidity Probe (Type Rotronics S/N - 49513-016) Surface Observations  
24/JUN/2009 REMOVE Humidity Probe (Type Rotronics S/N - 49513-016) Surface Observations  
12/JUN/2018 REPLACE Humidity Probe (Now Rotronics MP101A-T4-W4W S/N - 22306006) Surface Observations  
01/MAR/1939 INSTALL Hygrograph (Type Fielden S/N - Unknown) Surface Observations  
07/SEP/1993 REMOVE Hygrograph (Type Fielden S/N - Unknown) Surface Observations

#### Pressure Trend

01/JAN/1966 INSTALL Barograph (Type Weekly S/N - CBM0035) Surface Observations  
23/MAY/2012 REMOVE Barograph (Type Weekly S/N - CBM0035) Surface Observations

#### Lightning

08/JAN/1981 INSTALL Lightning Flash Counter (Type CIGRE - Vertical Aerial S/N - NONE) Surface Observations  
30/JAN/2017 REMOVE Lightning Flash Counter (Type CIGRE - Vertical Aerial S/N - NONE) Surface Observations  
30/OCT/2012 INSTALL Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - F4540005) Surface Observations  
12/MAY/2015 REPLACE Lightning Sensor (Now Vaisala TSS928 (Thunderstorm Sensor) S/N - 0064) Surface Observations  
18/MAR/2013 REPLACE Lightning Sensor (Now Vaisala TSS928 (Thunderstorm Sensor) S/N - F5010005) Surface Observations

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

#### Magnetic Bearing (No Electronic History)

#### Wind Direction

12/AUG/1992 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 64455?) Surface Observations  
12/AUG/1992 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 64455?) Surface Observations  
12/AUG/1992 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure  
01/JAN/1966 INSTALL Wind Run Anemometer (Type Munro S/N - CBM324) Surface Observations  
01/DEC/2016 REMOVE Wind Run Anemometer (Type Munro S/N - CBM383) Surface Observations  
30/OCT/2012 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 81275) Surface Observations  
30/OCT/2012 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 81266) Surface Observations  
11/APR/2011 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - Unknown) Surface Observations  
21/SEP/2000 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - V15149) Surface Observations  
07/NOV/2011 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - T14241) Surface Observations  
21/SEP/2000 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - V16335) Surface Observations  
01/NOV/2010 REPLACE Wind Run Anemometer (Now Munro S/N - 660927166REF5646) Surface Observations  
06/MAR/2011 REPLACE Wind Run Anemometer (Now Munro S/N - CBM383) Surface Observations

#### Wet Bulb Temperature

12/AUG/1992 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations

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Extended Climatological Station Metadata  
All History

<b>Station:</b>	KALGOORLIE-BOULDER AIRPORT		<b>Location:</b>	KALGOORLIE-BOULDER AIRPORT		<b>State:</b>	WA
<b>Bureau No.:</b>	012038	<b>WMO No.:</b>	94637	<b>Aviation ID:</b>	YPKG	<b>Opened:</b>	23 Feb 1939
<b>Latitude:</b>	-30.7847	<b>Longitude:</b>	121.4533	<b>Elevation:</b>	365.3 m	<b>Current Status:</b>	Still open
						<b>Barometer Elev:</b>	366 m
							<b>Metadata compiled:</b> 26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

24/JUN/2009 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations  
31/MAR/2009 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations  
21/SEP/2016 REMOVE Temperature Probe - Wet Bulb (Type Rosemount ST2401 S/N - 0566) Surface Observations  
07/NOV/2011 REPLACE Temperature Probe - Wet Bulb (Now Rosemount ST2401 S/N - 0566) Surface Observations  
30/SEP/1999 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 16802) Surface Observations  
14/OCT/2000 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 23056) Surface Observations  
30/NOV/2016 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 23056) Surface Observations  
02/MAY/2016 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 23108) Surface Observations  
12/DEC/2006 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 14576) Surface Observations  
17/OCT/2013 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 23108) Surface Observations

Solar Radiation (Long Wave)

26/MAY/1998 INSTALL Pyrgeometer (Type Epply PIR S/N - 29084F3) Radiation  
12/JUN/2006 REMOVE Pyrgeometer (Type Epply PIR S/N - 29084F3) Radiation

Spectral Radiation

11/OCT/1999 INSTALL Photometer Head (Type SPO2 Mk1 S/N - 1008) Radiation  
12/JUN/2006 REMOVE Photometer Head (Type SPO2 Mk1 S/N - 1008) Radiation

Maximum Temperature

30/SEP/1999 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 17468) Surface Observations  
02/MAY/2016 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - 17468) Surface Observations

Soil Temperature 10cm

01/JAN/1963 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - M2154) Surface Observations  
02/MAY/2016 REMOVE Thermometer, Soil, 10cm (Type Dobros S/N - 9690810) Surface Observations  
07/SEP/2005 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - 9690810) Surface Observations

Soil Temperature 20cm

01/JAN/1963 INSTALL Thermometer, Soil, 20cm (Type Unknown S/N - M6425) Surface Observations  
02/MAY/2016 REMOVE Thermometer, Soil, 20cm (Type Dobros S/N - 9604841) Surface Observations  
29/NOV/2001 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 9604841) Surface Observations  
15/JUN/2001 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 9725409) Surface Observations

Soil Temperature 50cm

01/JAN/1963 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - CBM186) Surface Observations  
02/MAY/2016 REMOVE Thermometer, Soil, 50cm (Type Dobros S/N - CBM186) Surface Observations

Snow Height (No Electronic History)

Soil Temperature 100cm

01/JAN/1963 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - 9603285) Surface Observations  
02/MAY/2016 REMOVE Thermometer, Soil, 100cm (Type Unknown S/N - CBM408) Surface Observations  
06/FEB/2014 REPLACE Thermometer, Soil, 100cm (Now Unknown S/N - 2169) Surface Observations  
10/MAR/2014 REPLACE Thermometer, Soil, 100cm (Now Unknown S/N - CBM408) Surface Observations

Sunshine Hours (No Electronic History)

Wind Run

01/JAN/1966 INSTALL Wind Run Anemometer (Type Munro S/N - CBM324) Surface Observations  
01/DEC/2016 REMOVE Wind Run Anemometer (Type Munro S/N - CBM383) Surface Observations  
01/NOV/2010 REPLACE Wind Run Anemometer (Now Munro S/N - 660927166REF5646) Surface Observations  
06/MAR/2011 REPLACE Wind Run Anemometer (Now Munro S/N - CBM383) Surface Observations

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## Extended Climatological Station Metadata

All History

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				<b>Barometer Elev:</b>	366 m	<b>Metadata compiled:</b>	26 JUL 2025

## Station Equipment History (continued)

### Equipment Install/Remove(Continued)

#### Minimum Temperature

30/SEP/1999 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - 24281) Surface Observations  
 02/MAY/2016 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - 20787) Surface Observations  
 03/OCT/2009 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 20787) Surface Observations  
 15/JAN/2007 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 23356) Surface Observations

#### Terrestrial Minimum Temperature

01/JAN/1966 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - 4943) Surface Observations  
 02/MAY/2016 REMOVE Thermometer, Terrestrial, Min (Type WIKA S/N - 29031) Surface Observations  
 08/NOV/2000 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 14043) Surface Observations  
 03/FEB/2003 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 20779) Surface Observations  
 03/JAN/2002 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 21052) Surface Observations  
 09/JAN/2007 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 24226) Surface Observations  
 20/DEC/2006 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 24281) Surface Observations  
 02/OCT/2012 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 27625) Surface Observations  
 23/JUL/2013 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 29031) Surface Observations  
 05/JUL/2012 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 29049) Surface Observations

#### Visibility

27/MAY/1998 INSTALL Visibility Meter (Type Vaisala FD12 S/N - S06404) Surface Observations  
 05/JUN/2019 REPLACE Visibility Meter (Now Vaisala FS11 S/N - P4110310) 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

23/JUL/2013 INSTALL Equipment Shelter (Type Radar - Purpose Built Building S/N - 5827) Infrastructure  
 10/MAR/2014 INSTALL Radar (Type DWSR 2502C S/N - NONE) WeatherWatch  
 01/OCT/1993 INSTALL Radar (Type WF100-5C S/N - 012) Upper Air  
 01/OCT/1993 INSTALL Radar (Type WF100-5C S/N - 012) WeatherWatch  
 12/MAY/2021 INSTALL Radar (Type Wurrung-2502C S/N - NONE) WeatherWatch  
 12/MAY/2021 INSTALL Radar Antenna Controller (RACCOON) (Type Wurrung V1.1 S/N - B008436) WeatherWatch  
 10/MAR/2014 INSTALL Radar Interface (Type EEC 502 (BoM) S/N - ITS015) WeatherWatch  
 10/MAR/2014 INSTALL Radar Safety System (RSS) (Type RSS (2502C/8502S) S/N - 5244-7) WeatherWatch  
 12/MAY/2021 INSTALL Radar Safety System (RSS) (Type RSS (2502C/8502S) S/N - 5244-7) WeatherWatch  
 23/JUL/2013 INSTALL Radar Tower (Type Cylindrical Spiral Staircase EEC - 22m S/N - 23055) Infrastructure  
 12/MAY/2021 REMOVE Radar (Type DWSR 2502C S/N - NONE) WeatherWatch  
 08/MAR/2014 REMOVE Radar (Type WF100-5C S/N - 012) Upper Air  
 08/MAR/2014 REMOVE Radar (Type WF100-5C S/N - 012) WeatherWatch  
 12/MAY/2021 REMOVE Radar Interface (Type EEC 502 (BoM) S/N - ITS015) WeatherWatch  
 11/MAY/2021 REMOVE Radar Safety System (RSS) (Type RSS (2502C/8502S) S/N - 5244-7) WeatherWatch

#### Total Column Ozone Amount (No Electronic History)

#### Pressure

01/MAR/1939 INSTALL Barometer (Type Kew pattern mercury S/N - 1982) Surface Observations  
 21/SEP/2000 INSTALL Barometer (Type Vaisala DPA21 S/N - V13506) Surface Observations

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						<b>Barometer Elev:</b>	366 m
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## Station Equipment History (continued)

### Equipment Install/Remove(Continued)

12/AUG/1992 INSTALL Barometer (Type Vaisala PA11A S/N - 458184) Surface Observations  
17/JAN/2013 REMOVE Barometer (Type Kew pattern mercury S/N - 1982) Surface Observations  
30/OCT/2012 REMOVE Barometer (Type Vaisala DPA21 S/N - V13506) Surface Observations  
04/SEP/2007 REPLACE Barometer (Now Vaisala PTB220B S/N - X2050008) Surface Observations  
18/MAR/2020 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - L1910524) Surface Observations

### Evaporation

12/MAR/2018 INSTALL Equipment Reset Device (Type Watchdog Automatic Evaporation Pan S/N - NONE) Surface Observations  
01/JAN/1966 INSTALL Evaporation Pan (Type Class A S/N - Unknown) Surface Observations  
18/NOV/2016 INSTALL Evaporation Pan (Type SS Class A Automatic S/N - NONE) Surface Observations  
01/DEC/2016 REMOVE Evaporation Pan (Type Class A S/N - NONE) Surface Observations  
31/JUL/2013 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations  
04/AUG/2006 REPLACE Evaporation Pan (Now Class A S/N - Unknown) Surface Observations  
21/OCT/2003 REPLACE Evaporation Pan (Now Class A S/N - Unknown) Surface Observations  
22/MAY/2000 REPLACE Evaporation Pan (Now Class A S/N - Unknown) Surface Observations  
08/JAN/2002 REPLACE Evaporation Pan (Now Class A S/N - Unknown) Surface Observations

### Rainfall

01/JAN/1939 INSTALL Pluviograph (Type Unknown S/N - Unknown) Rainfall Intensity  
01/MAY/1997 REMOVE Pluviograph (Type Unknown S/N - Unknown) Rainfall Intensity  
01/MAR/1939 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations  
12/AUG/1992 INSTALL Raingauge (Type HS TB3A-0.2 S/N - 96-198) Surface Observations  
18/NOV/2016 INSTALL Raingauge (Type HS-TB3/0.1/P S/N - Unknown) Surface Observations  
24/JAN/2017 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations  
15/MAR/2000 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 519) Rainfall Intensity  
15/MAR/2000 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 519) Surface Observations  
07/APR/1997 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96-198) Rainfall Intensity  
05/JUL/2019 UNSHARE Raingauge (Type Rimco TBRG (type unspecified) S/N - 519) Rainfall Intensity

### River Height (No Electronic History)

### Solar Radiation

26/MAY/1998 INSTALL Global Pyranometer Mount (Type Carter Scott Mk1 S/N - Unknown) Radiation  
26/MAY/1998 INSTALL Pyranometer (Type Kipp&Zonen CM11 S/N - 924026) Radiation  
26/MAY/1998 INSTALL Pyranometer (Type Kipp&Zonen CM11 S/N - 924041) Radiation  
12/JUN/2006 REMOVE Global Pyranometer Mount (Type Carter Scott Mk1 S/N - Unknown) Radiation  
12/JUN/2006 REMOVE Pyranometer (Type Kipp&Zonen CM11 S/N - 924026) Radiation  
12/JUN/2006 REMOVE Pyranometer (Type Kipp&Zonen CM11 S/N - 924041) Radiation  
11/OCT/1999 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924026) Radiation  
21/AUG/2002 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924026) Radiation  
11/OCT/1999 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924041) Radiation  
21/AUG/2002 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924041) Radiation

### Solar Radiation (Direct)

26/MAY/1998 INSTALL Pyrheliometer (Type Kipp&Zonen CH1 S/N - 940056) Radiation  
12/JUN/2006 REMOVE Pyrheliometer (Type Kipp&Zonen CH1 S/N - 940056) Radiation

### Turbidity (No Electronic History)

### Sea Water Level (No Electronic History)

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<b>Metadata compiled:</b>							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

Sea Water Temperature

18/NOV/2016 INSTALL Temperature Probe - Water (Type TEMP CONTROLS TCBMP02A S/N - Unknown) Surface Observations  
12/MAR/2018 REPLACE Temperature Probe - Water (Now TEMP CONTROLS TCBMP02A S/N - Unknown) Surface Observations

Wind Speed

12/AUG/1992 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 64455?) Surface Observations  
12/AUG/1992 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 64455?) Surface Observations  
12/AUG/1992 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure  
01/JAN/1966 INSTALL Wind Run Anemometer (Type Munro S/N - CBM324) Surface Observations  
01/DEC/2016 REMOVE Wind Run Anemometer (Type Munro S/N - CBM383) Surface Observations  
30/OCT/2012 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 81275) Surface Observations  
30/OCT/2012 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 81266) Surface Observations  
11/APR/2011 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - Unknown) Surface Observations  
21/SEP/2000 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - V15149) Surface Observations  
07/NOV/2011 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - T14241) Surface Observations  
21/SEP/2000 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - V16335) Surface Observations  
01/NOV/2010 REPLACE Wind Run Anemometer (Now Munro S/N - 660927166REF5646) Surface Observations  
06/MAR/2011 REPLACE Wind Run Anemometer (Now Munro S/N - CBM383) Surface Observations

Air Temperature

21/SEP/2016 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 61421998) Surface Observations  
31/MAR/2009 INSTALL Humidity Probe (Type Rotronics S/N - 49513-016) Surface Observations  
24/JUN/2009 REMOVE Humidity Probe (Type Rotronics S/N - 49513-016) Surface Observations  
12/JUN/2018 REPLACE Humidity Probe (Now Rotronics MP101A-T4-W4W S/N - 22306006) Surface Observations  
12/AUG/1992 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - NONE) Surface Observations  
07/NOV/2011 REPLACE Temperature Probe - Dry Bulb (Now Rosemount ST2401 S/N - 0772) Surface Observations  
01/MAR/1939 INSTALL Thermograph (Type Fielden S/N - Unknown) Surface Observations  
07/SEP/1993 REMOVE Thermograph (Type Fielden S/N - Unknown) Surface Observations  
30/SEP/1999 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - M2893) Surface Observations  
30/NOV/2016 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - M2893) 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 mutli-stage quality control process.

Available Date Range	Element	Fail Field Performance Check
20/SEP/2000 - 13/SEP/2020	Cloud Height	0
31/MAR/2009 - 10/MAR/2021	Humidity	1
12/AUG/1998 - 03/OCT/2009	Pressure Trend	0
12/AUG/1998 - 19/JUN/2018	Lightning	7
29/APR/1996 - 10/MAR/2021	Wind Direction	2
29/APR/1996 - 12/NOV/2015	Wet Bulb Temperature	1
14/OCT/2000 - 12/NOV/2015	Maximum Temperature	0

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## Extended Climatological Station Metadata

### All History

<b>Station:</b>	KALGOORLIE-BOULDER AIRPORT		<b>Location:</b>	KALGOORLIE-BOULDER AIRPORT		<b>State:</b>	WA
<b>Bureau No.:</b>	012038	<b>WMO No.:</b>	94637	<b>Aviation ID:</b>	YPKG	<b>Opened:</b>	23 Feb 1939
<b>Latitude:</b>	-30.7847	<b>Longitude:</b>	121.4533	<b>Elevation:</b>	365.3 m	<b>Current Status:</b>	Still open
				<b>Barometer Elev:</b>	366 m	<b>Metadata compiled:</b>	26 JUL 2025

## Station Equipment History (continued)

Available Date Range	Element	Fail Field Performance Check
12/AUG/1998 - 12/NOV/2015	Soil Temperature 10cm	0
12/AUG/1998 - 12/NOV/2015	Soil Temperature 20cm	0
12/AUG/1998 - 12/NOV/2015	Soil Temperature 50cm	0
12/AUG/1998 - 12/NOV/2015	Soil Temperature 100cm	1
12/AUG/1998 - 12/NOV/2015	Wind Run	0
14/OCT/2000 - 12/NOV/2015	Minimum Temperature	0
12/AUG/1998 - 12/NOV/2015	Terrestrial Minimum Temperature	0
27/OCT/1999 - 10/MAR/2021	Visibility	1
14/APR/1999 - 11/MAR/2021	RF Reflectivity	1
29/APR/1996 - 10/MAR/2021	Pressure	0
29/NOV/2001 - 22/NOV/2020	Evaporation	0
29/APR/1996 - 10/MAR/2021	Rainfall	1
26/MAY/1998 - 11/OCT/1999	Solar Radiation	0
29/APR/1996 - 10/MAR/2021	Wind Speed	2
29/APR/1996 - 10/MAR/2021	Air Temperature	2

### Station Detail Changes

09/MAY/2006 CLASSIFICATION AWS Funding - Aviation Funded Assets (AVAF)  
12/OCT/2020 CLASSIFICATION AWS Priority 2 - Important (SLP2-AWS)  
01/JUL/2011 CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT)  
23/SEP/2000 CLASSIFICATION Autosonde (RSA)  
12/AUG/1992 CLASSIFICATION Building (FBL)  
26/JUN/2002 CLASSIFICATION CLIMAT Stations (CLC)  
26/JUN/2002 CLASSIFICATION CLIMAT TEMP Stations (CLT)  
09/MAY/2006 CLASSIFICATION Category A (TAF A)  
10/JAN/2011 CLASSIFICATION Critical (ASOSCRIT)  
10/AUG/2020 CLASSIFICATION Critical Aviation or Defence (AVCRIT) ENDED 16-10-2020  
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 16-10-2020  
01/JUL/1998 CLASSIFICATION Information and Observations (MIO)  
27/SEP/2021 CLASSIFICATION Mastered in EAMS (EAMS)  
21/MAR/2016 CLASSIFICATION NOT Processed by ASOS (NPBA)  
01/MAY/1989 CLASSIFICATION National Benchmark Network for Agrometeorology (NBNA)  
01/JUL/2017 CLASSIFICATION Observing Operations Hub - Perth (OOH-P)  
01/JUL/1998 CLASSIFICATION Rawinsonde Stations (RS) ENDED 22-09-2000  
01/SEP/1992 CLASSIFICATION Reference Climate Stations (RCS) ENDED 30-06-2011  
14/FEB/1997 CLASSIFICATION Regional Basic Synoptic Network (RBSN)  
02/JAN/2017 CLASSIFICATION Western Australia (1) (WA\_1)  
16/FEB/2018 OBJECT Document/012038 F611 20180216  
03/OCT/2009 OBJECT Document/012038091003tnt  
16/JUL/2018 OBJECT Document/ASOS CONFIGURATION  
29/JAN/2014 OBJECT Document/BAROMETER COEFFICIENTS

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Extended Climatological Station Metadata  
All History

<b>Station:</b>	KALGOORLIE-BOULDER AIRPORT		<b>Location:</b>	KALGOORLIE-BOULDER AIRPORT		<b>State:</b>	WA
<b>Bureau No.:</b>	012038	<b>WMO No.:</b>	94637	<b>Aviation ID:</b>	YPKG	<b>Opened:</b>	23 Feb 1939
<b>Latitude:</b>	-30.7847	<b>Longitude:</b>	121.4533	<b>Elevation:</b>	365.3 m	<b>Current Status:</b>	Still open
						<b>Barometer Elev:</b>	366 m
							<b>Metadata compiled:</b> 26 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

12/NOV/2015 OBJECT Document/CEILOMETER STATUS  
22/OCT/2016 OBJECT Document/CEILOMETER STATUS  
16/MAY/2017 OBJECT Document/CEILOMETER STATUS  
01/OCT/2018 OBJECT Document/CEILOMETER STATUS  
26/MAR/2019 OBJECT Document/CEILOMETER STATUS  
07/NOV/2011 OBJECT Document/CEILOMETER STATUS  
17/MAR/2014 OBJECT Document/CEILOMETER STATUS  
09/MAR/2015 OBJECT Document/CEILOMETER STATUS  
28/MAR/2017 OBJECT Document/CEILOMETER STATUS  
13/SEP/2020 OBJECT Document/CEILOMETER STATUS  
18/SEP/2013 OBJECT Document/CEILOMETER STATUS  
27/AUG/2019 OBJECT Document/CEILOMETER STATUS  
05/OCT/2005 OBJECT Document/RAPIC TX CAL DATA  
20/NOV/2011 OBJECT Document/SKYLINE DATA  
29/NOV/2016 OBJECT Document/SKYLINE DATA  
12/JUL/2006 OBJECT Document/SKYLINE DATA  
14/OCT/2000 OBJECT Document/SKYLINE DATA  
05/JUN/2019 OBJECT Document/VISIBILITY METER STATUS  
01/OCT/2018 OBJECT Document/VISIBILITY METER STATUS  
26/MAR/2019 OBJECT Document/VISIBILITY METER STATUS  
07/NOV/2011 OBJECT Document/VISIBILITY METER STATUS  
17/MAR/2014 OBJECT Document/VISIBILITY METER STATUS  
09/MAR/2015 OBJECT Document/VISIBILITY METER STATUS  
28/MAR/2017 OBJECT Document/VISIBILITY METER STATUS  
13/SEP/2020 OBJECT Document/VISIBILITY METER STATUS  
18/SEP/2013 OBJECT Document/VISIBILITY METER STATUS  
23/FEB/1939 STATION - (nondb seeding) Opened  
23/FEB/1939 STATION - (nondb seeding) aero\_ht Changed to 366.7  
23/FEB/1939 STATION - (nondb seeding) bar\_ht Changed to 370.1  
23/FEB/1939 STATION - (nondb seeding) bar\_ht\_deriv Changed to SURVEY  
23/FEB/1939 STATION - (nondb seeding) stn\_ht Changed to 365.3  
23/FEB/1939 STATION - (nondb seeding) stn\_ht\_deriv Changed to SURVEY  
23/FEB/1939 STATION - (nondb seeding) wmo\_num Changed to 94637  
23/FEB/1939 STATION aviation\_id Changed to YPKG  
28/JAN/2014 STATION bar\_ht Changed to 366.0  
28/JAN/2014 STATION bar\_ht\_deriv Changed to Unknown  
23/FEB/1939 STATION latitude Changed to -30.7756Seeded from Non SitesDb  
21/MAY/2002 STATION latitude Changed to -30.7847GPS using WGS84  
07/SEP/1993 STATION latitude Changed to -30.7853  
21/MAY/2002 STATION latlon\_deriv Changed to GPS  
23/FEB/1939 STATION latlon\_deriv Changed to SURVEY  
07/SEP/1993 STATION latlon\_deriv Changed to SURVEY  
07/SEP/1993 STATION longitude Changed to 121.4519

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Extended Climatological Station Metadata  
All History

<b>Station:</b>	KALGOORLIE-BOULDER AIRPORT		<b>Location:</b>	KALGOORLIE-BOULDER AIRPORT		<b>State:</b>	WA
<b>Bureau No.:</b>	012038	<b>WMO No.:</b>	94637	<b>Aviation ID:</b>	YPKG	<b>Opened:</b>	23 Feb 1939
<b>Latitude:</b>	-30.7847	<b>Longitude:</b>	121.4533	<b>Elevation:</b>	365.3 m	<b>Barometer Elev:</b>	366 m
<b>Current Status:</b>							Still open
<b>Metadata compiled:</b>							26 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

21/MAY/2002 STATION longitude Changed to 121.4533GPS using WGS84  
23/FEB/1939 STATION longitude Changed to 121.4592Seeded from Non SitesDb  
12/AUG/1998 STATION lu\_0\_100m Changed to Open farmland, grassland or tundra  
12/AUG/1998 STATION lu\_100m\_1km Changed to Airport  
12/AUG/1998 STATION lu\_1km\_10km Changed to Airport  
21/MAY/2002 STATION lu\_1km\_10km Changed to City area, buildings < 10 metres (3 storey)  
23/FEB/1939 STATION name Changed to KALGOORLIE AMO  
01/NOV/1982 STATION name Changed to KALGOORLIE MO  
28/APR/1993 STATION name Changed to KALGOORLIE-BOULDER AIRPORT  
12/AUG/1998 STATION soil\_type Changed to red soil  
12/AUG/1998 STATION surface\_type Changed to partly covered by grass

System Changes

01/JAN/1939 SYSTEM Infrastructure Commenced  
12/JUN/2006 SYSTEM Radiation Ceased  
07/FEB/1979 SYSTEM Radiation Commenced  
26/MAY/1998 SYSTEM Radiation Commenced  
05/JUL/2019 SYSTEM Rainfall Intensity Ceased  
01/JAN/1939 SYSTEM Rainfall Intensity Commenced  
30/NOV/2018 SYSTEM Reference Standards Ceased  
01/JAN/2011 SYSTEM Reference Standards Commenced  
01/MAR/1939 SYSTEM Surface Observations Commenced  
01/DEC/1949 SYSTEM Upper Air Commenced  
01/JAN/1993 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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