



Basic Climatological Station Metadata
Current status

Metadata compiled: 26 JUL 2025

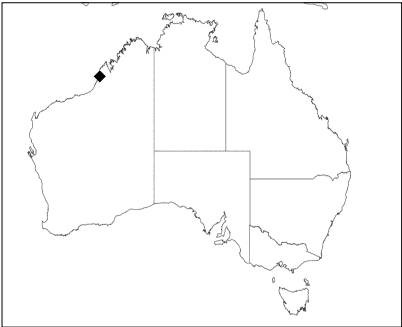
Station: BROOME AIRPORT

Bureau of Meteorology station number: 003003
Bureau of Meteorology district name: West Kimberley
State: WA

World Meteorological Organization number: 94203
Identification: YBRM

Network Classification: CLIMAT Stations, CLIMAT TEMP Stations, GCOS
Surface Network, GCOS Upper Air 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	-17.9475	Hour Min Sec	17°56'51"S
Longitude	Decimal	122.2352	Hour Min Sec	122°14'7"E
Station Height	7.42 m	Barometer Height	8.7 m	
Method of station geographic positioning			GPS	

Year opened: 1939
Status: Open

Station summary

No summary for this site has been written as yet.

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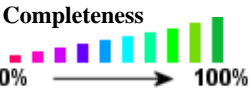


Basic Climatological Station Metadata
Current status

Station: BROOME AIRPORT		Location: BROOME AIRPORT		State: WA	
Bureau No.: 003003	WMO No.: 94203	Aviation ID: YBRM	Opened: 01 Jan 1939	Current Status: Still open	
Latitude: -17.9475	Longitude: 122.2352	Elevation: 7.42 m	Barometer Elev: 8.7 m	Metadata compiled: 26 JUL 2025	

Observation summary

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



DAILY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
EVAPORATION	JAN 1967	APR 2023	98.5	176	4
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	DEC 1968	JAN 2012	94.1	402	17
GROUND MINIMUM TEMPERATURE	DEC 1965	APR 2016	99.1	118	1
MAXIMUM AIR TEMPERATURE	AUG 1939	JUN 2025	99.8	44	0
MAXIMUM WIND GUST SPEED	MAY 1941	JUN 2025	93.4	217	59
SUNSHINE HOURS	APR 1993	APR 2016	99.2	62	0
WIND RUN ABOVE 10 FEET	JAN 1996	JUN 2025	98.0	213	0
WIND RUN BELOW 10 FEET	DEC 1968	APR 2023	98.6	136	4
RAINFALL	AUG 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	AUG 1939	JUN 2025	97.7	9.0	27	10
DEW POINT	AUG 1939	JUN 2025	97.3	9.0	27	14
MEAN SEA LEVEL PRESSURE	JAN 1951	JUN 2025	98.3	9.3	118	2
PRECIPITATION SINCE LAST OBS	AUG 1939	AUG 1999	51.1	5.7	2875	245
SOIL TEMPERATURE - 10cm	APR 1987	APR 2016	52.5	4.5	39	156
TOTAL CLOUD AMOUNT	AUG 1939	JUN 2025	92.2	6.6	1130	10
WIND SPEED	AUG 1939	JUN 2025	98.3	9.1	27	10
UPPER AIR TEMPERATURE	JUN 1965	JUN 2025	80.4	1.4	1271	2
UPPER AIR WIND SPEED	JAN 1950	JUN 2025	90.1	3.5	297	16

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RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	JAN 1948	JUL 2017	87.3	2315	29

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	OCT 2002	JUL 2025	99.5	1433.1	N/A	0

HALF-HOURLY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	DEC 1993	JUL 2025	101.1	48.5	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	Jan 2000	Aug 2019	N/A	1.7	810	9
Wind, temperature and pressure flights	May 1991	Jun 2018	N/A	1.2	337	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

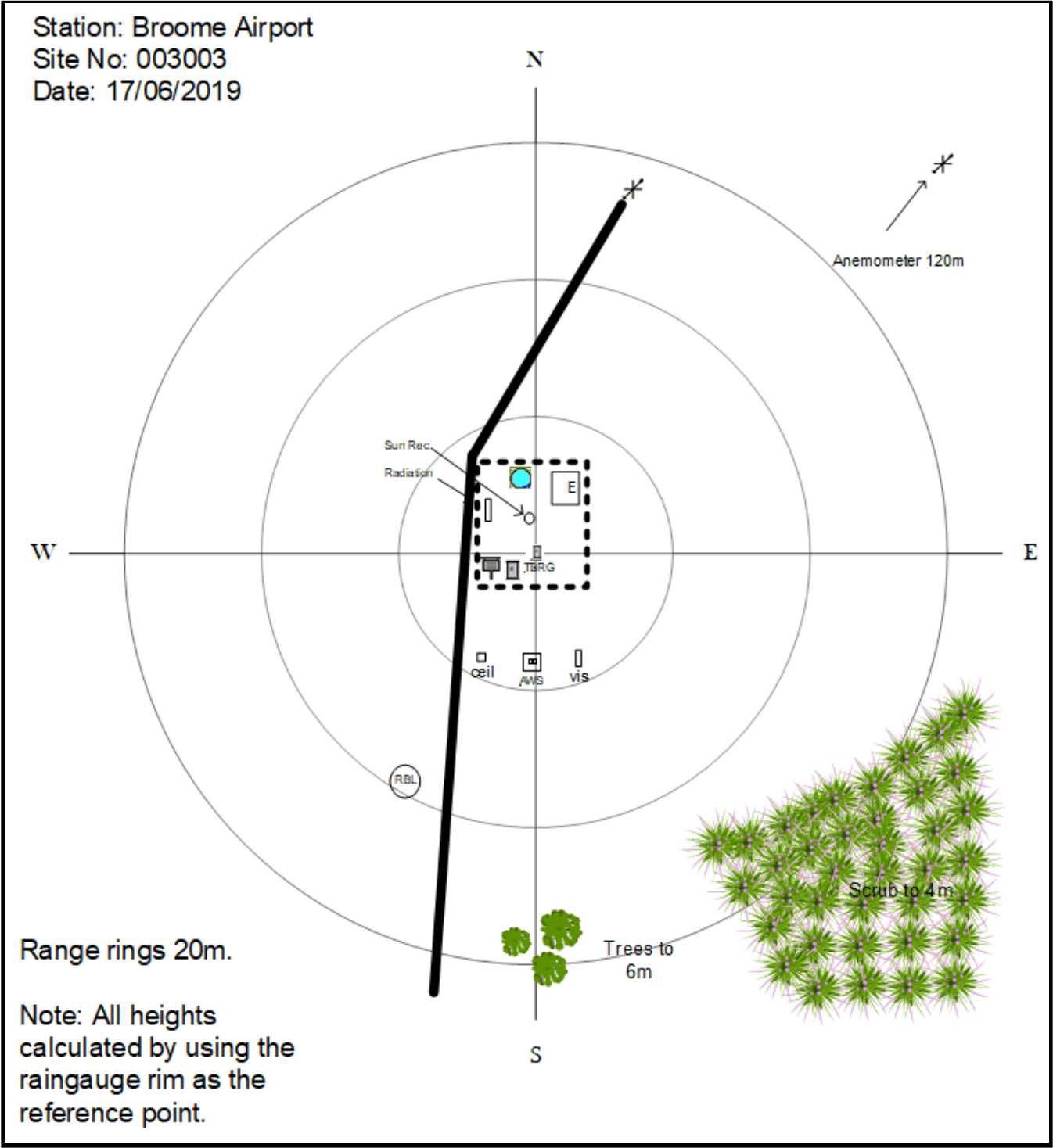
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Instrument Location and Surrounding Features
17/06/2019(most recent)



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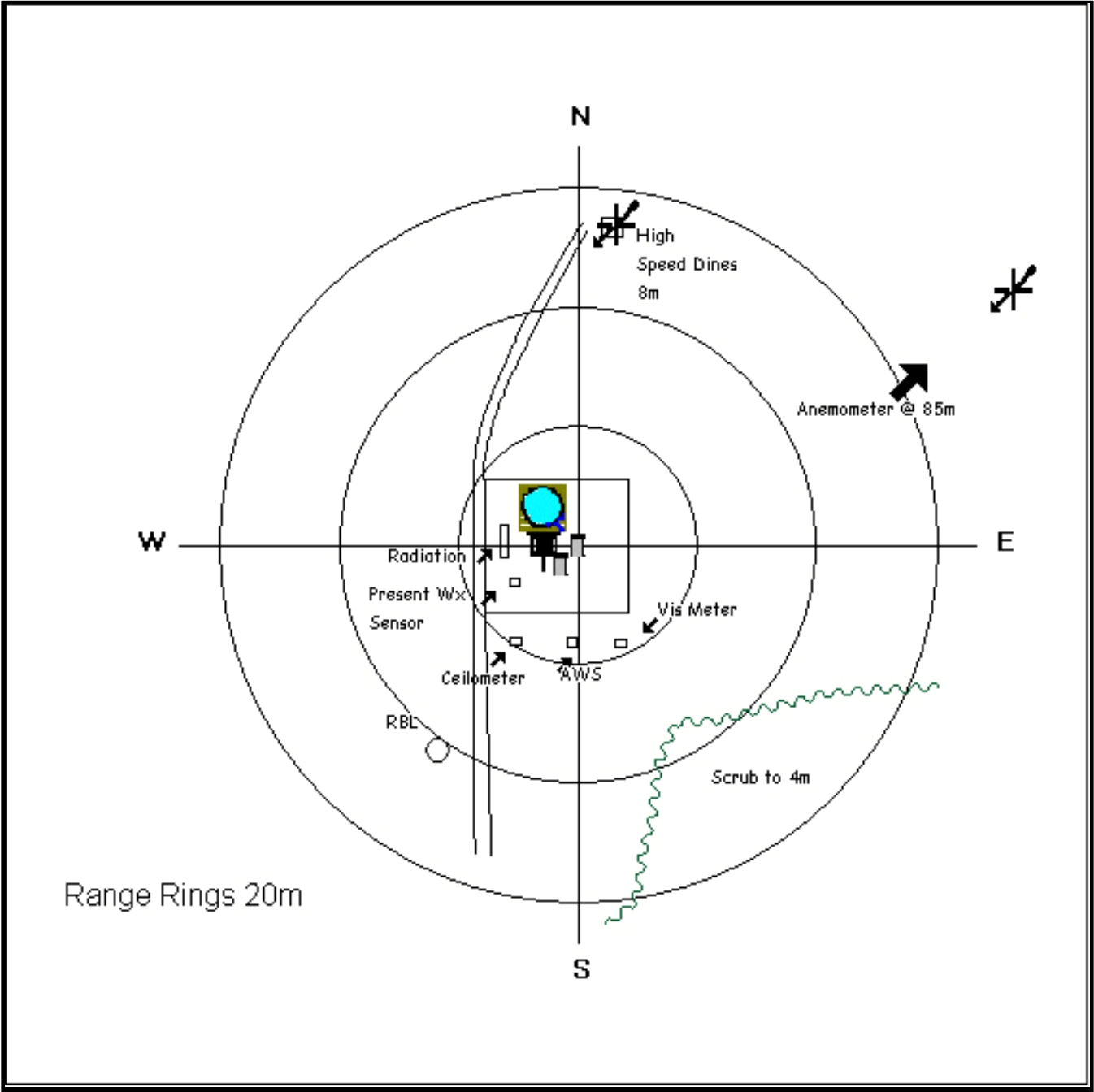
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All History

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Instrument Location and Surrounding Features
12/06/2018



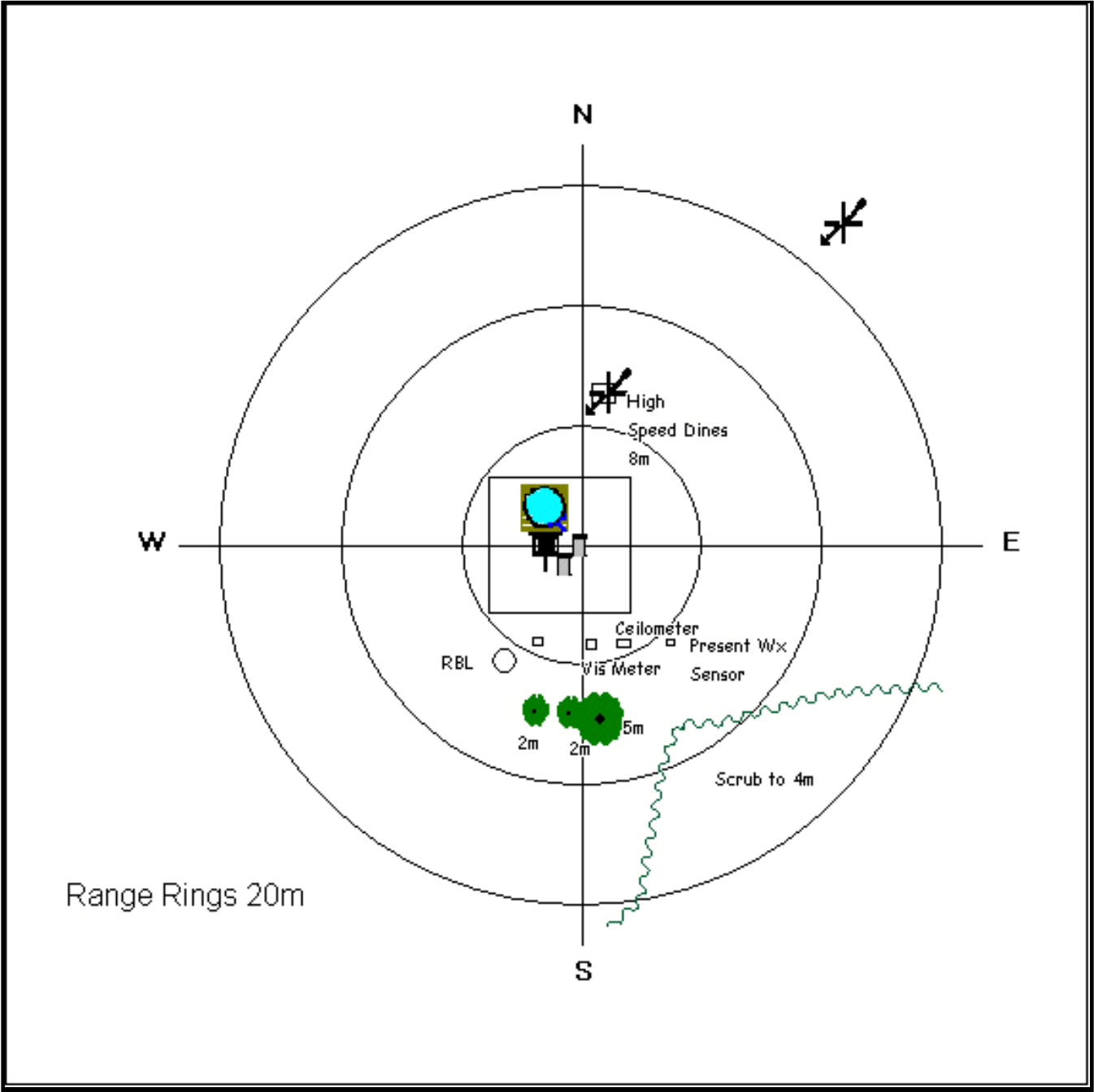
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Instrument Location and Surrounding Features
17/07/2017



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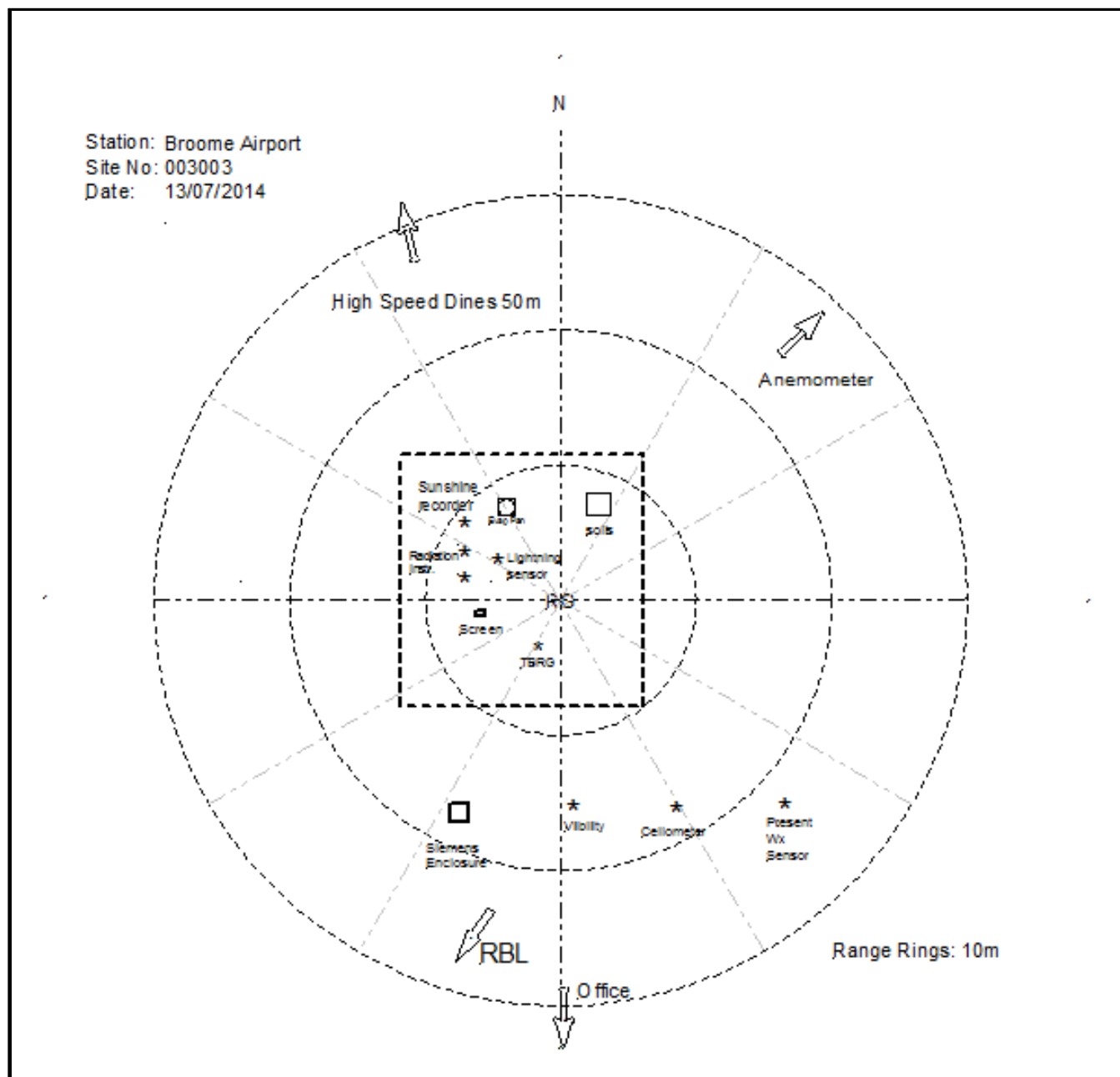
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

13/07/2014



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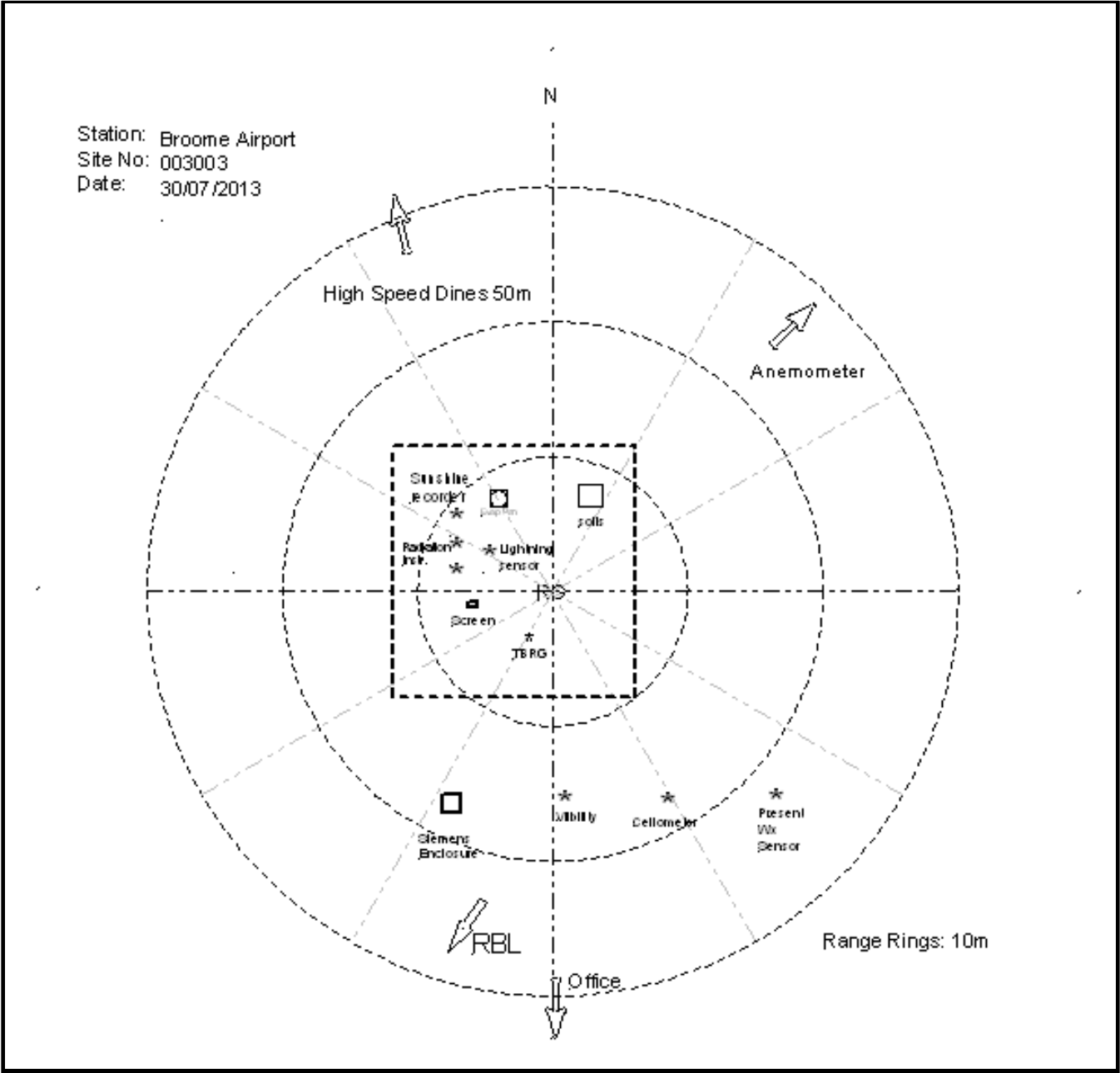
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Instrument Location and Surrounding Features
30/07/2013



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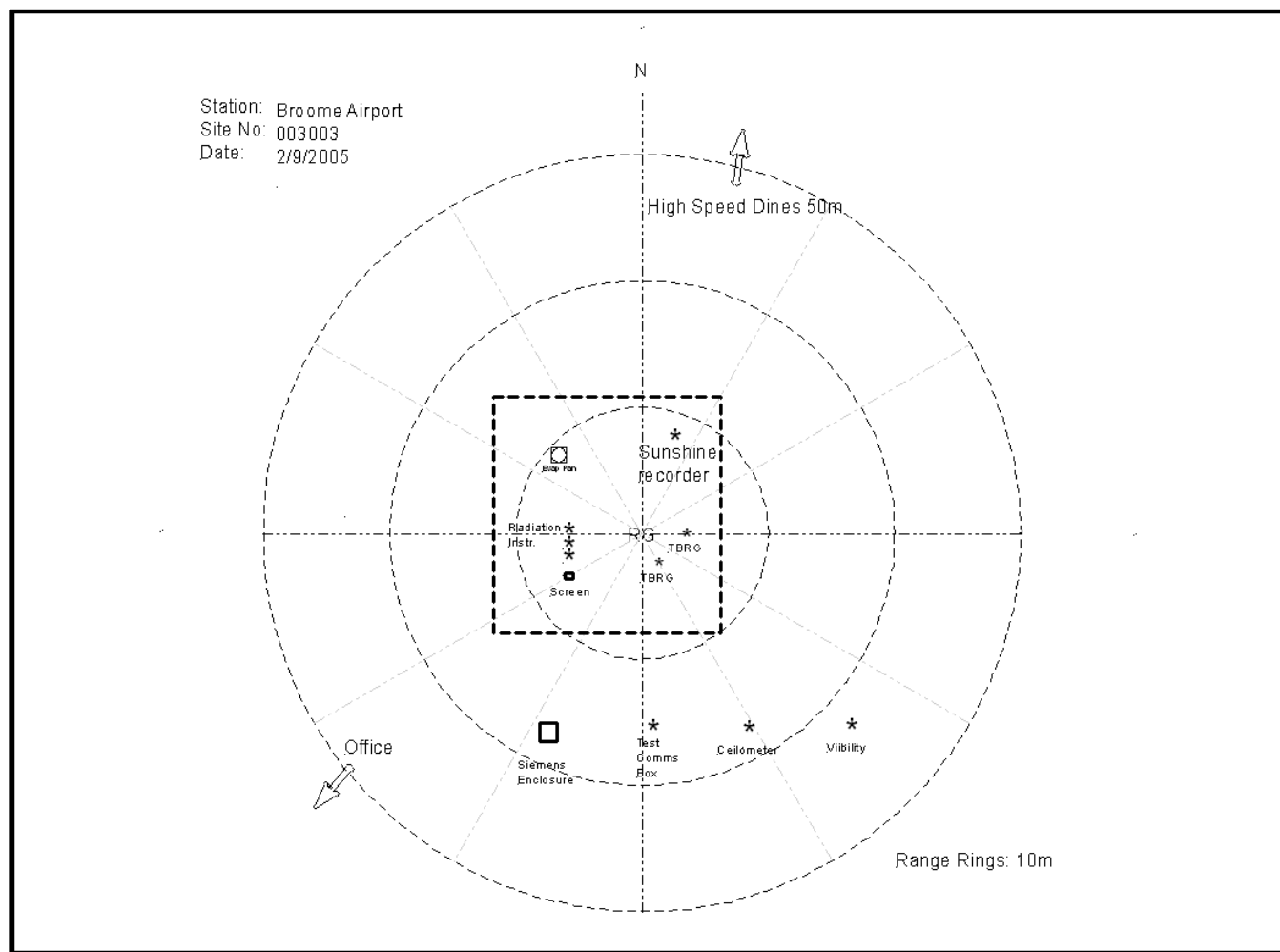
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

02/09/2005



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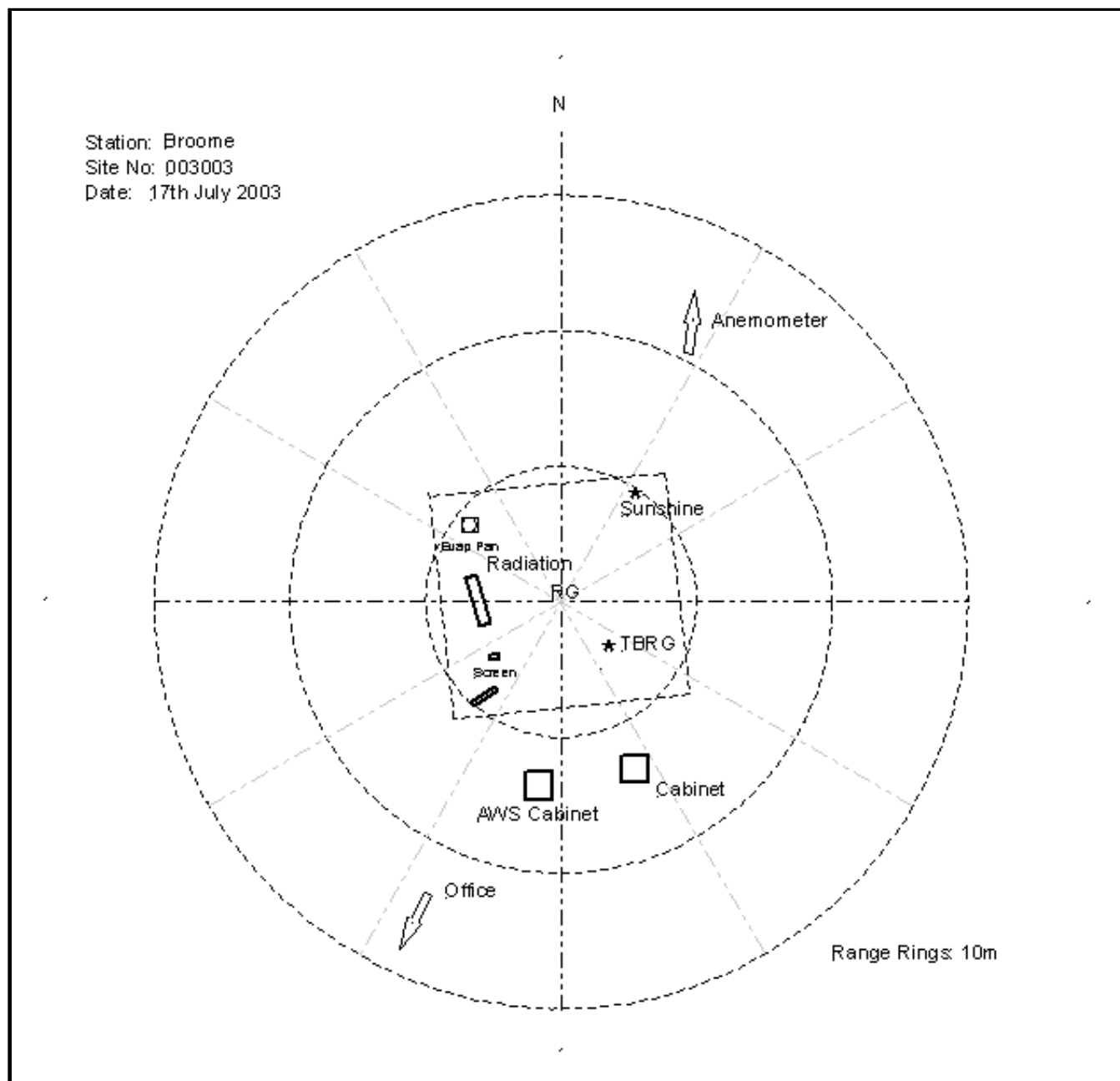
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Instrument Location and Surrounding Features

17/07/2003



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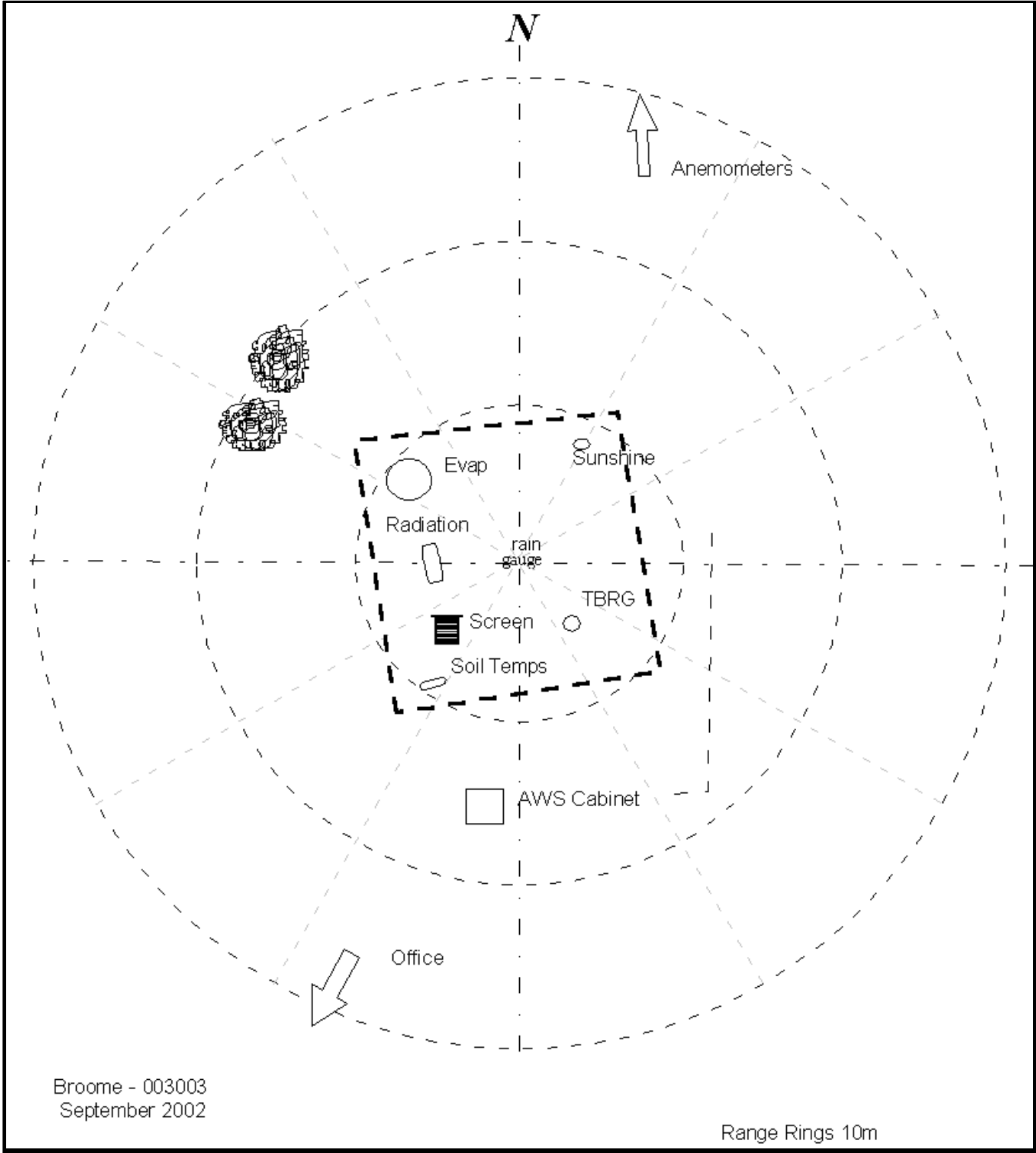
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All History

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Instrument Location and Surrounding Features
12/09/2002



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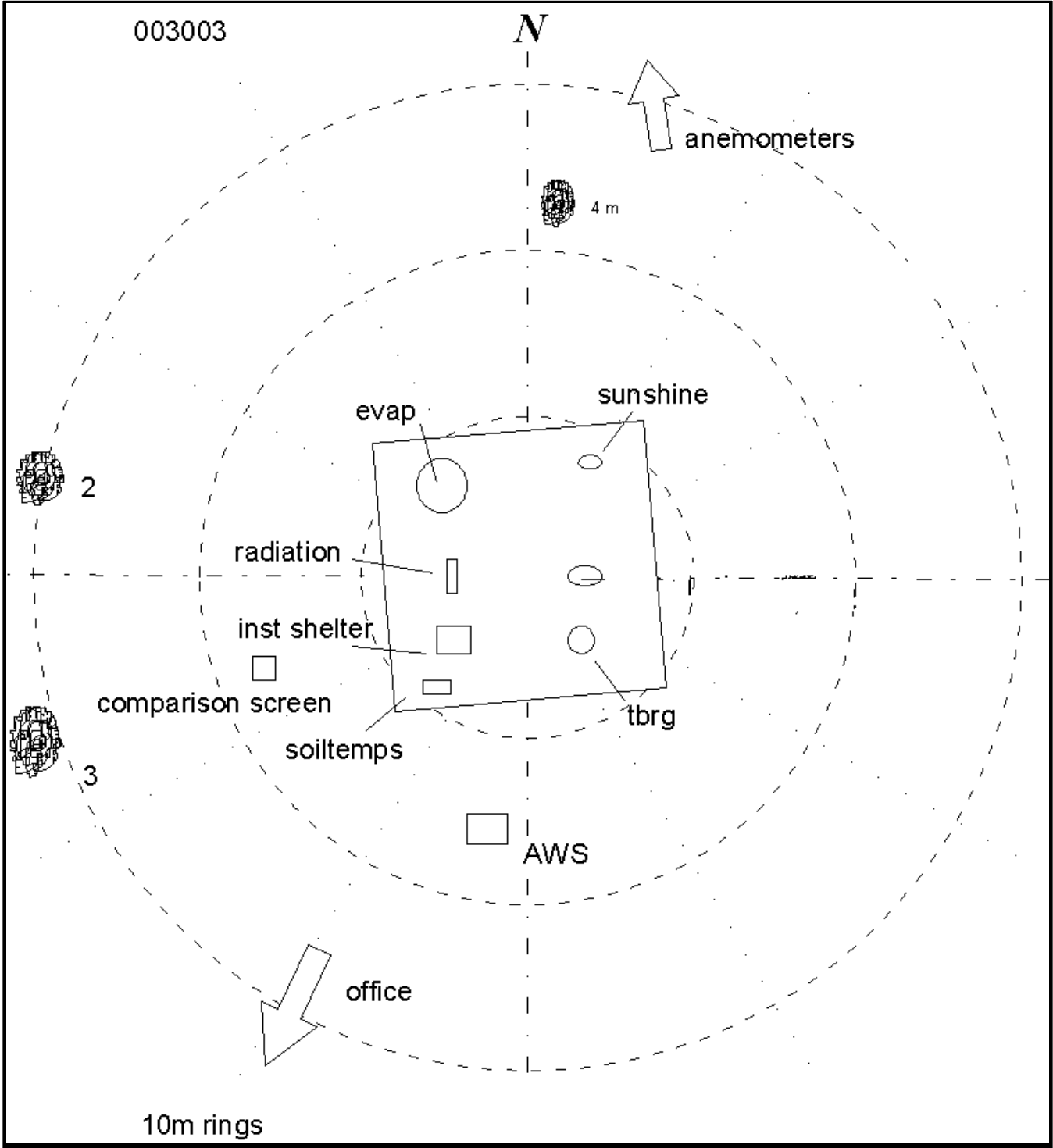
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Instrument Location and Surrounding Features
17/07/2000



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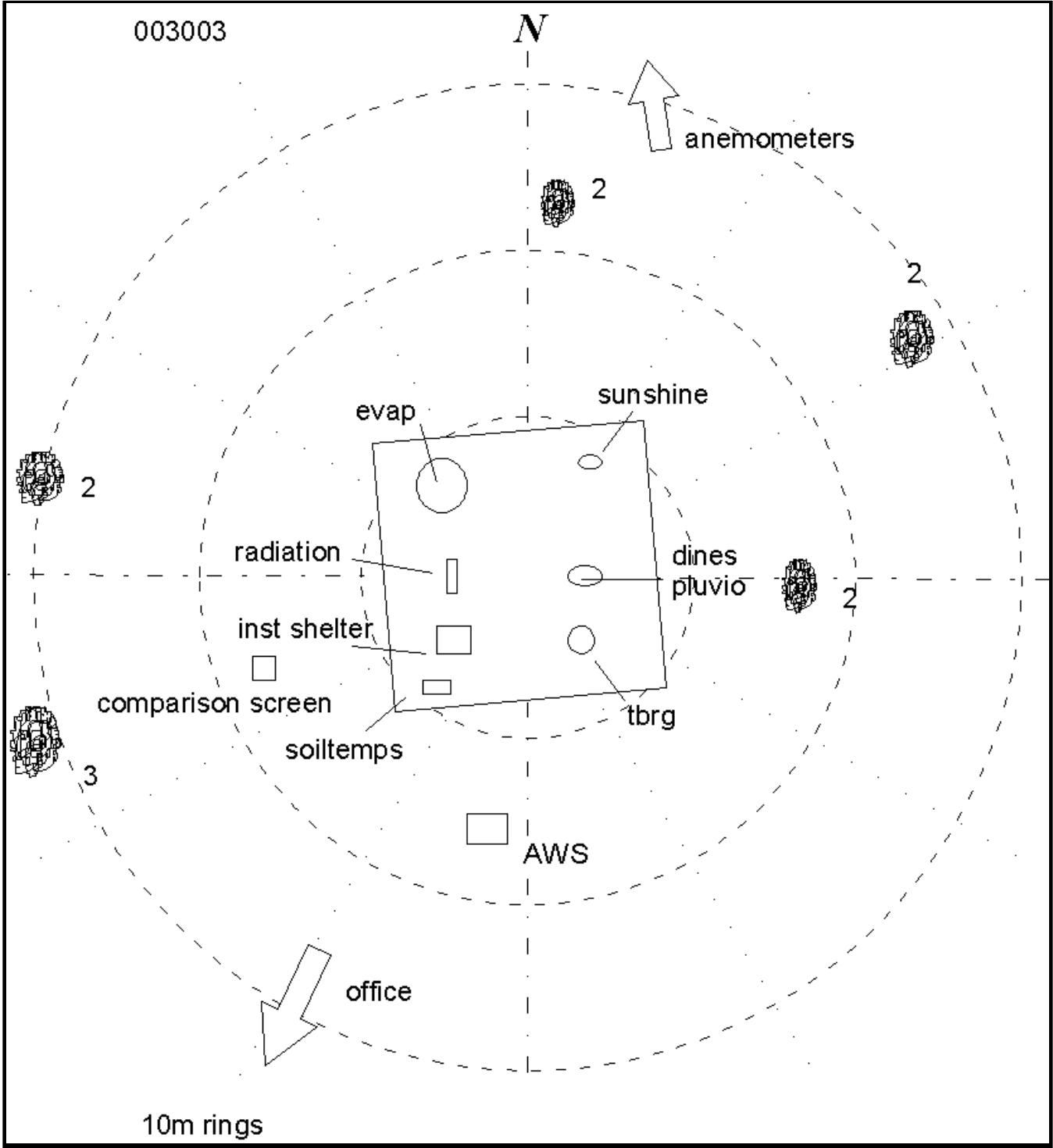
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Instrument Location and Surrounding Features
01/06/1999



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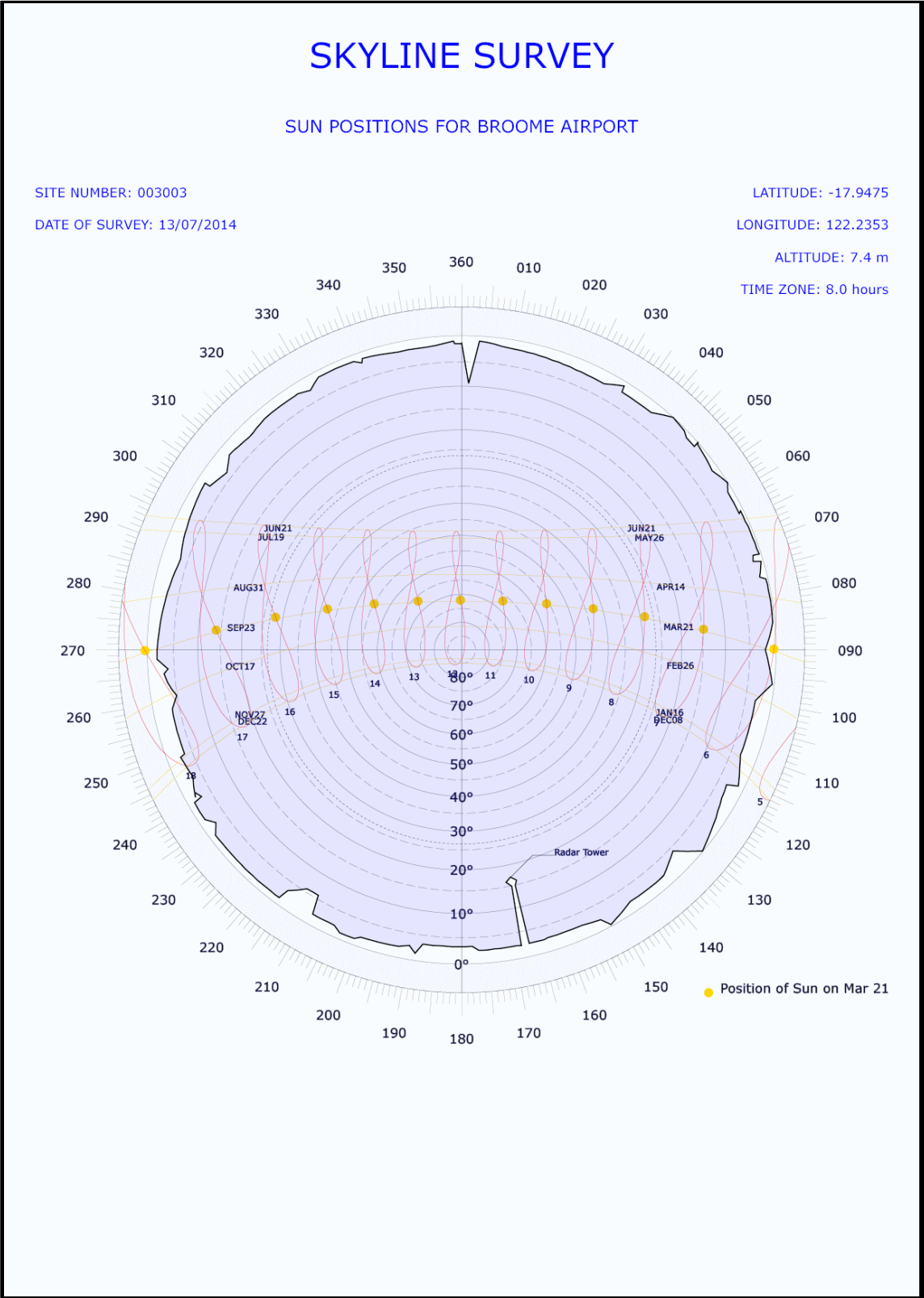
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Skyline Diagram
13/07/2014(most recent)



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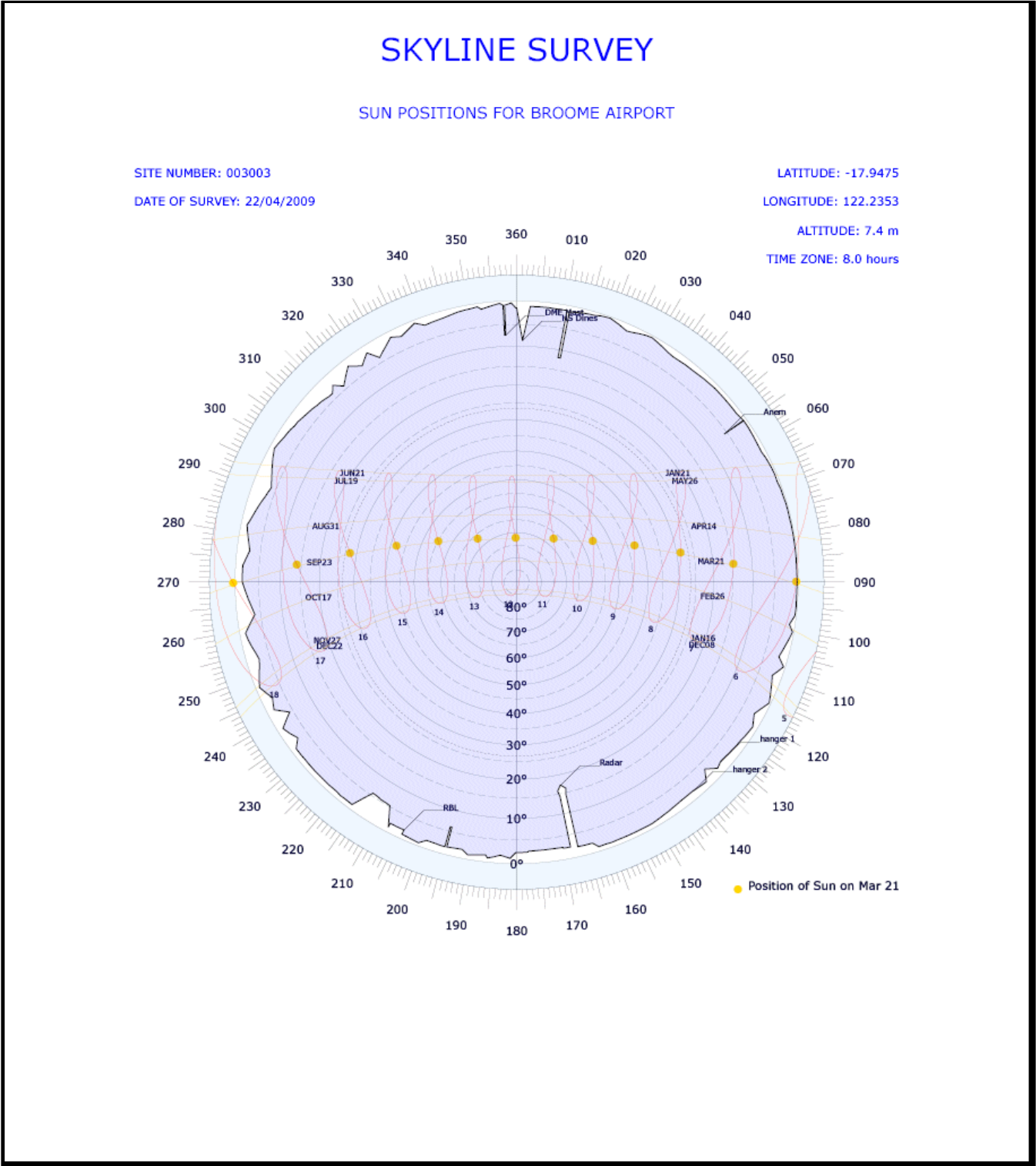
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Skyline Diagram
22/04/2009



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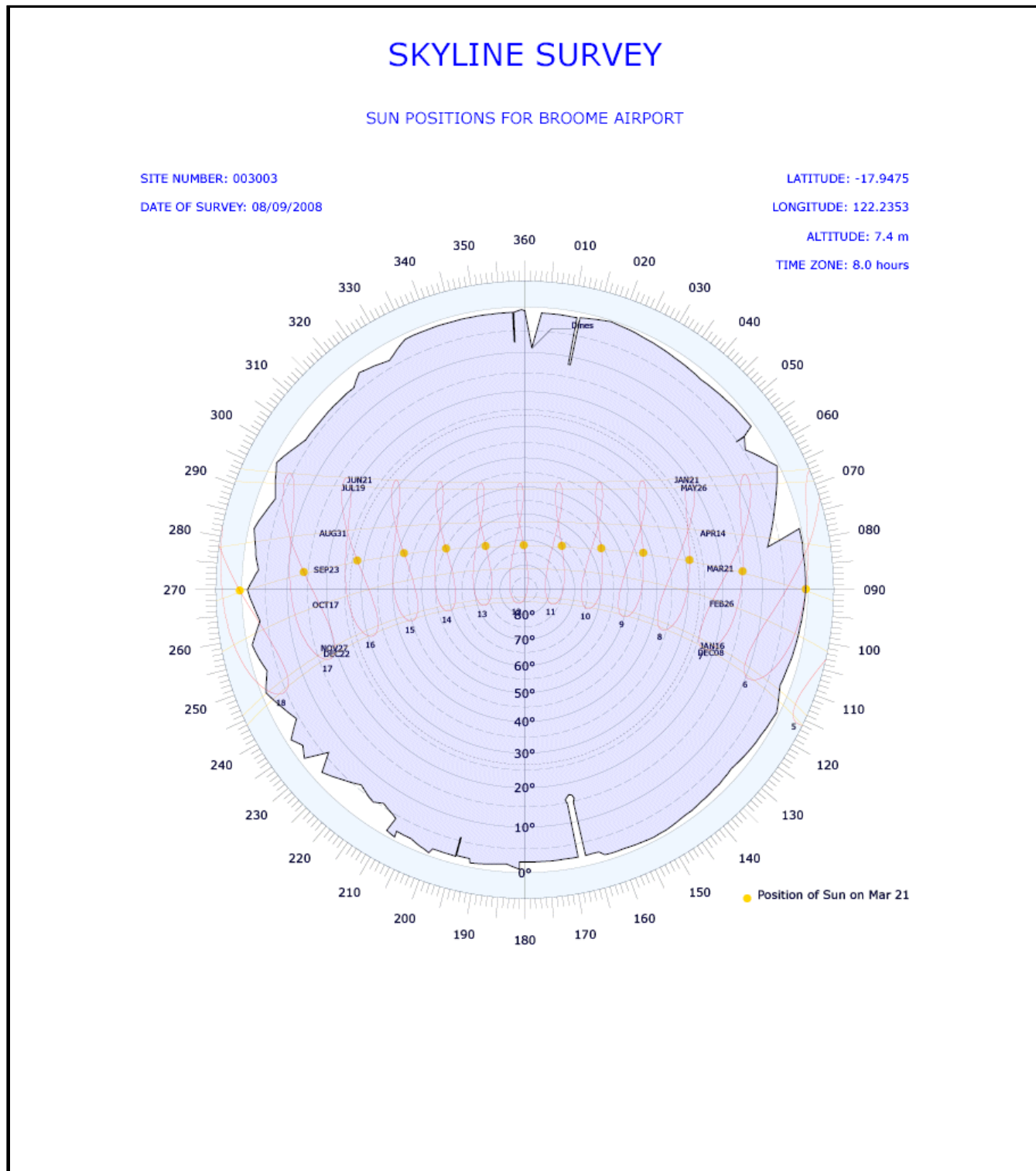
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Skyline Diagram

08/09/2008



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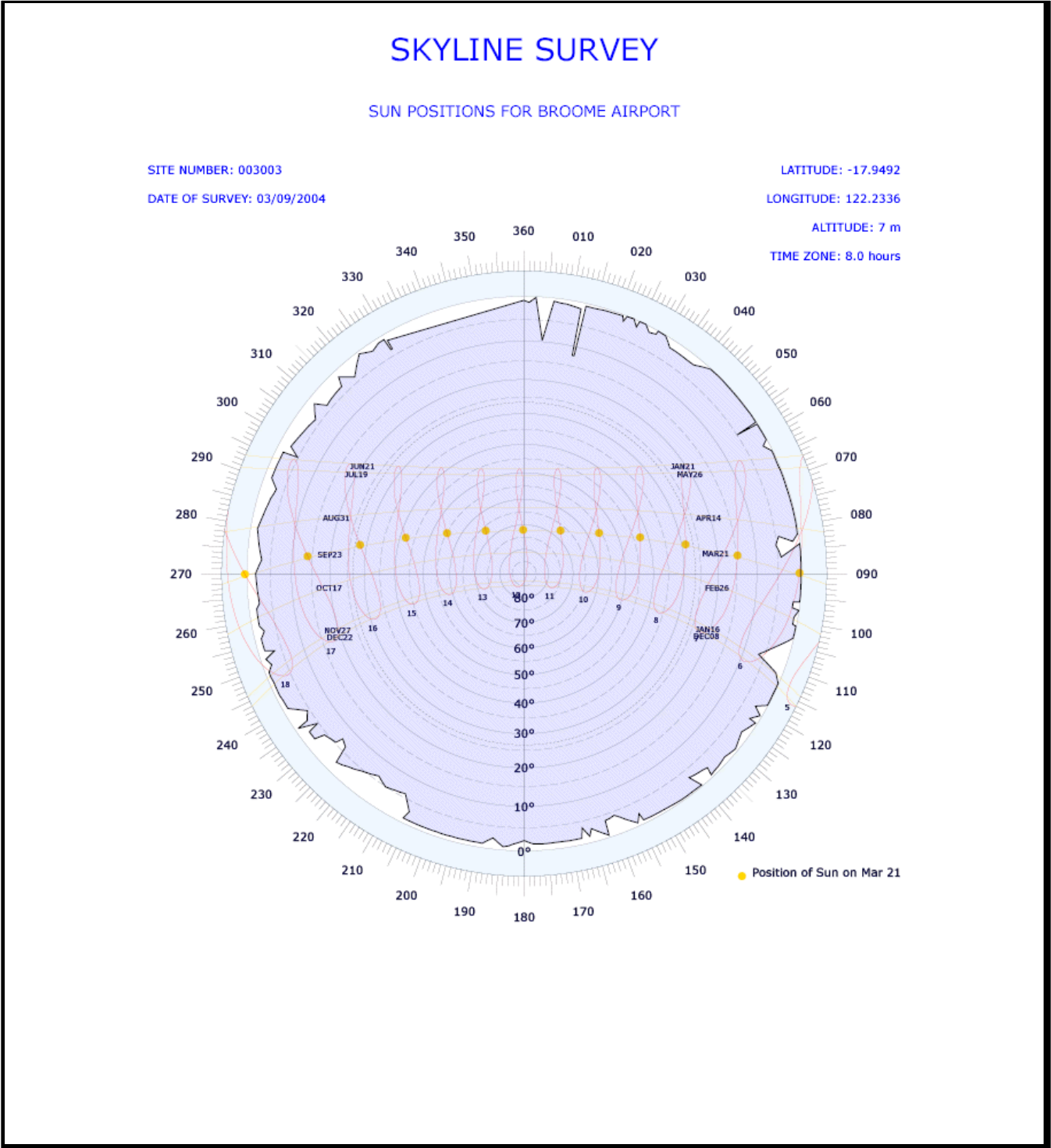
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Skyline Diagram
02/09/2005



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Station Observation Program Summary (Surface Observations) from 01/08/1939 to 16/10/2002

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	Y	Y

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

Station Observation Program Summary (Surface Observations) from 16/10/2002 to 28/04/2016

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

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

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

Upper Air Routine 01/07/1999 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	-	-
Wind & Temp.	18:00	-	-	-	-	-	-	-
Wind	00:00	Y	Y	Y	Y	Y	Y	Y
Wind	06:00	Y	Y	Y	Y	Y	Y	Y
Wind	12:00	Y	Y	Y	Y	Y	Y	Y
Wind	18:00	Y	Y	Y	Y	Y	Y	Y

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Extended Climatological Station Metadata

All History

Station:	BROOME AIRPORT		Location:	BROOME AIRPORT		State:	WA
Bureau No.:	003003	WMO No.:	94203	Aviation ID:	YBRM	Opened:	01 Jan 1939
Latitude:	-17.9475	Longitude:	122.2352	Elevation:	7.42 m	Barometer Elev:	8.7 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Upper Air Routine 05/01/2005 to 01/01/2009

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
Wind	12:00	Y	Y	Y	Y	Y	Y	Y
Wind	18:00	Y	Y	Y	Y	Y	Y	Y

Upper Air Routine 01/01/2009 to 28/04/2016

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

Upper Air Routine 28/04/2016 to 24/08/2019

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

Upper Air Routine 24/08/2019 (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	-	-	-	-	-	-	-
Wind & Temp.	18:00	-	-	-	-	-	-	-
Wind	00:00	Y	Y	Y	Y	Y	Y	Y
Wind	06:00	-	-	-	-	-	-	-

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Wind	18:00							
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Extended Climatological Station Metadata

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Latitude:	-17.9475	Longitude:	122.2352	Elevation:	7.42 m	Barometer Elev:	8.7 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History

Equipment Install/Remove

Cloud Height

31/JUL/2003 INSTALL Ceilometer (Type Vaisala CT25K S/N - X11504) Surface Observations
18/NOV/2019 REPLACE Ceilometer (Now Vaisala CL31 S/N - R2120414) Surface Observations
16/APR/2019 REPLACE Ceilometer (Now Vaisala CT25K S/N - V01402) Surface Observations
25/MAY/2007 REPLACE Ceilometer (Now Vaisala CT25K S/N - Z10205) Surface Observations
01/AUG/1939 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - NONE) Surface Observations
14/AUG/2003 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - NONE) Surface Observations

Humidity

30/JUL/2021 INSTALL Humidity Probe (Type Vaisala HMP155A S/N - T1320163) Surface Observations
01/JAN/1966 INSTALL Hygrograph (Type Unknown S/N - Unknown) Surface Observations
02/JUL/1995 REMOVE Hygrograph (Type Unknown S/N - Unknown) Surface Observations
01/JAN/1966 INSTALL Thermohygrograph (Type Unknown S/N - Unknown) Surface Observations
02/JUL/1995 REMOVE Thermohygrograph (Type Unknown S/N - Unknown) Surface Observations

Pressure Trend

12/SEP/2002 INSTALL Barograph (Type Weekly S/N - CBM0015) Surface Observations
01/JAN/1966 INSTALL Barograph (Type Weekly S/N - CBM0030) Surface Observations
29/JUN/2005 REMOVE Barograph (Type Weekly S/N - CBM0015) Surface Observations
24/JUL/2012 REPLACE Barograph (Now Weekly S/N - CBM0024) Surface Observations

Lightning

02/JUL/2012 INSTALL Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - F4540001) Surface Observations
20/AUG/2021 REMOVE Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - Z515001) Surface Observations
07/SEP/2012 REPLACE Lightning Sensor (Now Vaisala TSS928 (Thunderstorm Sensor) S/N - Z515001) Surface Observations

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

25/FEB/1969 INSTALL Anemometer (Type Dines - Hi Speed S/N - CBM1361) Surface Observations
01/JAN/1953 INSTALL Anemometer (Type Dines S/N - Unknown) Surface Observations
16/AUG/2021 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 80227) Surface Observations
16/AUG/2021 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 60308) Surface Observations
27/JUL/1995 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 7001-011) Surface Observations
16/AUG/2021 INSTALL Mast Anemometer (Type Pivot, SS 10m S/N - NONE) Infrastructure
27/JUL/1995 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - YBRM-GAM-01) Infrastructure
01/JAN/1966 INSTALL Wind Run Anemometer (Type Munro S/N - CBM322) Surface Observations
27/JUL/1995 REMOVE Anemometer (Type Dines S/N - Unknown) Surface Observations
16/AUG/2021 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - CBM26) Surface Observations
16/AUG/2021 REMOVE Mast Anemometer (Type Pivot, Standard 10m S/N - YBRM-GAM-01) Infrastructure
22/FEB/2001 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - CBM26) Surface Observations
03/DEC/2002 REPLACE Wind Run Anemometer (Now Munro S/N - CBM543) Surface Observations

Wet Bulb Temperature

27/JUL/1995 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations
30/JUL/2021 REMOVE Temperature Probe - Wet Bulb (Type Rosemount ST2401 S/N - 0550) Surface Observations
02/JUL/2008 REPLACE Temperature Probe - Wet Bulb (Now Rosemount S/N - 10241) Surface Observations
05/AUG/2008 REPLACE Temperature Probe - Wet Bulb (Now Rosemount ST2401 S/N - 0550) Surface Observations

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Extended Climatological Station Metadata

All History

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Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

15/OCT/2002 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 14539) Surface Observations
01/AUG/1939 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 14539) Surface Observations
19/SEP/2007 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - M6647) Surface Observations
19/SEP/2007 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 16811) Surface Observations
12/SEP/2002 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M2873) Surface Observations
17/JUL/2003 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M3023) Surface Observations
17/SEP/2004 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M6647) Surface Observations

Solar Radiation (Long Wave)

15/AUG/1996 INSTALL Pyrgeometer (Type Epply PIR S/N - 29078F3) Radiation
28/AUG/2006 REPLACE Pyrgeometer (Now Epply PIR S/N - 29084F3) Radiation

Spectral Radiation

07/DEC/1998 INSTALL Photometer Head (Type SPO2 Mk1 S/N - 1013) Radiation
31/JAN/2006 REPLACE Photometer Head (Now SPO2 Mk1 S/N - 1001) Radiation
09/SEP/2002 REPLACE Photometer Head (Now SPO2 Mk1 S/N - 1030) Radiation

Maximum Temperature

01/AUG/1939 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 19307) Surface Observations
02/MAY/2016 REMOVE Thermometer, Mercury, Max (Type Unknown S/N - 27775) Surface Observations
03/SEP/2012 REPLACE Thermometer, Mercury, Max (Now Unknown S/N - 27775) Surface Observations

Soil Temperature 10cm

01/MAR/1987 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - M2149) Surface Observations
29/APR/2016 REMOVE Thermometer, Soil, 10cm (Type Unknown S/N - 9566450) Surface Observations
04/DEC/2005 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - 9690813) Surface Observations
27/OCT/2007 REPLACE Thermometer, Soil, 10cm (Now Unknown S/N - 9566450) Surface Observations

Soil Temperature 20cm

01/MAR/1987 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - 9566398) Surface Observations
29/APR/2016 REMOVE Thermometer, Soil, 20cm (Type Unknown S/N - 0709811) Surface Observations
26/OCT/2007 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 9725404) Surface Observations
22/NOV/2007 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - M3623) Surface Observations
17/JUL/2000 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - M3623) Surface Observations
16/JUN/2008 REPLACE Thermometer, Soil, 20cm (Now Unknown S/N - 0709800) Surface Observations
25/FEB/2011 REPLACE Thermometer, Soil, 20cm (Now Unknown S/N - 0709811) Surface Observations
27/OCT/2007 REPLACE Thermometer, Soil, 20cm (Now Unknown S/N - 0725404) Surface Observations

Soil Temperature 50cm

01/MAR/1987 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - M0978) Surface Observations
29/APR/2016 REMOVE Thermometer, Soil, 50cm (Type Dobros S/N - M3571) Surface Observations
17/JUL/2000 REPLACE Thermometer, Soil, 50cm (Now Dobros S/N - 9566065) Surface Observations
14/NOV/2011 REPLACE Thermometer, Soil, 50cm (Now Dobros S/N - M3571) Surface Observations
27/OCT/2007 REPLACE Thermometer, Soil, 50cm (Now Unknown S/N - 0010802) Surface Observations

Snow Height (No Electronic History)

Soil Temperature 100cm

01/MAR/1987 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - CBM474) Surface Observations
29/APR/2016 REMOVE Thermometer, Soil, 100cm (Type Amarol S/N - 0010800) Surface Observations
27/OCT/2007 REPLACE Thermometer, Soil, 100cm (Now Amarol S/N - 0010800) Surface Observations

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Extended Climatological Station Metadata

All History

Station:	BROOME AIRPORT		Location:	BROOME AIRPORT		State:	WA
Bureau No.:	003003	WMO No.:	94203	Aviation ID:	YBRM	Opened:	01 Jan 1939
Latitude:	-17.9475	Longitude:	122.2352	Elevation:	7.42 m	Barometer Elev:	8.7 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

- 10/JUL/2001 REPLACE Thermometer, Soil, 100cm (Now Dobros S/N - M0980) Surface Observations
10/SEP/2005 REPLACE Thermometer, Soil, 100cm (Now Unknown S/N - M3571) Surface Observations

Sunshine Hours

- 21/APR/1993 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - CM 083) Surface Observations
02/MAY/2016 REMOVE Sunshine Recorder (Type Campbell-Stokes S/N - CM 083) Surface Observations

Wind Run

- 01/JAN/1966 INSTALL Wind Run Anemometer (Type Munro S/N - CBM322) Surface Observations
03/DEC/2002 REPLACE Wind Run Anemometer (Now Munro S/N - CBM543) Surface Observations

Minimum Temperature

- 01/AUG/1939 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - 19216) Surface Observations
02/MAY/2016 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - CBM4956) Surface Observations
17/SEP/2004 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 19235) Surface Observations
10/JUL/2001 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 19235) Surface Observations
02/SEP/2005 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 20503) Surface Observations
17/JUL/2003 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 20503) Surface Observations
12/SEP/2002 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 20503) Surface Observations
15/OCT/2002 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 20672) Surface Observations
03/SEP/2012 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - CBM4956) Surface Observations

Terrestrial Minimum Temperature

- 01/JAN/1965 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - CBM5214) Surface Observations
02/MAY/2016 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - 20709) Surface Observations
17/JUL/2000 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 15667) Surface Observations
10/JUL/2001 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19216) Surface Observations
12/SEP/2002 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19235) Surface Observations
17/SEP/2004 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19235) Surface Observations
25/JUL/2008 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 20672) Surface Observations
03/SEP/2012 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 20709) Surface Observations
04/FEB/2007 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 20709) Surface Observations

Visibility

- 01/SEP/2003 INSTALL Visibility Meter (Type Vaisala FD12 S/N - Y15301) 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

- 10/SEP/2008 INSTALL Radar (Type DWSR 2502C S/N - Unknown) WeatherWatch
01/MAY/1965 INSTALL Radar (Type WF2 S/N - Unknown) Upper Air
01/OCT/1975 INSTALL Radar (Type WF44 S/N - Unknown) Upper Air
01/OCT/1975 INSTALL Radar (Type WF44 S/N - Unknown) WeatherWatch
23/OCT/1998 INSTALL Radar Interface (Type BOM S/N - Unknown) Upper Air
10/SEP/2008 INSTALL Radar Interface (Type Unknown S/N - Unknown) WeatherWatch
16/NOV/2012 INSTALL Radar Safety System (RSS) (Type RSS (2502C/8502S) S/N - Unknown) WeatherWatch
01/OCT/1975 INSTALL Radar Tower (Type Lattice WF44 - 18 ft S/N - Unknown) Infrastructure

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All History

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Bureau No.:	003003	WMO No.:	94203	Aviation ID:	YBRM	Opened:	01 Jan 1939
Latitude:	-17.9475	Longitude:	122.2352	Elevation:	7.42 m	Barometer Elev:	8.7 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

10/SEP/2008 INSTALL Radar Tower (Type Unknown S/N - NONE) Infrastructure
01/OCT/1975 REMOVE Radar (Type WF2 S/N - Unknown) Upper Air
28/OCT/2008 REMOVE Radar (Type WF44 S/N - Unknown) Upper Air
28/OCT/2008 REMOVE Radar (Type WF44 S/N - Unknown) WeatherWatch
28/OCT/2008 REMOVE Radar Interface (Type BOM S/N - Unknown) Upper Air
28/OCT/2008 REMOVE Radar Tower (Type Lattice WF44 - 18 ft S/N - Unknown) Infrastructure
24/AUG/2019 UNSHARE Radar (Type DWSR 2502C S/N - Unknown) Upper Air

Total Column Ozone Amount (No Electronic History)

Pressure

01/MAR/1941 INSTALL Barometer (Type Kew pattern mercury S/N - 1882A) Surface Observations
23/OCT/1989 INSTALL Barometer (Type Negretti and Zambra Mk II S/N - Unknown) Surface Observations
27/JUL/1995 INSTALL Barometer (Type Vaisala PA11A S/N - 661852) Surface Observations
12/SEP/2002 REMOVE Barometer (Type Negretti and Zambra Mk II S/N - CBM200) Surface Observations
27/JUL/1995 REMOVE Barometer (Type Vaisala PA11 S/N - 229381) Surface Observations
18/JUL/1980 REPLACE Barometer (Now Kew pattern mercury S/N - Unknown) Surface Observations
28/JUL/1993 REPLACE Barometer (Now Negretti and Zambra Mk II S/N - CBM187) Surface Observations
01/JUN/1999 REPLACE Barometer (Now Negretti and Zambra Mk II S/N - CBM200) Surface Observations
28/AUG/1991 REPLACE Barometer (Now Vaisala PA11 S/N - 229381) Surface Observations
10/JAN/2003 REPLACE Barometer (Now Vaisala PTB220B S/N - V0350015) Surface Observations
10/DEC/2013 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - J3720019) Surface Observations

Evaporation

15/NOV/2017 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 - NONE) Surface Observations
05/JUN/2015 INSTALL Evaporation Pan (Type SS Class A Automatic S/N - NONE) Surface Observations
16/NOV/2016 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations
15/NOV/2017 REPLACE Evaporation Pan (Now SS Class A Automatic S/N - NONE) Surface Observations

Rainfall

01/JAN/1948 INSTALL Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
07/FEB/1997 REMOVE Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
01/AUG/1939 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations
27/JUL/1995 INSTALL Raingauge (Type HS TB3A-0.2 S/N - 96-191) Surface Observations
05/JUN/2015 INSTALL Raingauge (Type HS-TB3/0.1/P S/N - 13-308) Surface Observations
08/FEB/1999 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-275) Rainfall Intensity
08/FEB/1999 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-275) Surface Observations
22/OCT/2002 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 83282) Rainfall Intensity
22/OCT/2002 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 83282) Surface Observations
02/JAN/2013 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 92445) Rainfall Intensity
02/JAN/2013 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 92445) Surface Observations
03/APR/2007 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 75518) Rainfall Intensity
03/APR/2007 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 75518) Surface Observations
01/DEC/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 76504) Rainfall Intensity
01/DEC/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 76504) Surface Observations
08/MAR/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 76516) Rainfall Intensity

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				Barometer Elev:	8.7 m	Metadata compiled:	26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

08/MAR/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 76516) Surface Observations
07/FEB/1997 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96-191) Rainfall Intensity
07/FEB/1997 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96-275) Rainfall Intensity
07/FEB/1997 SHARE Raingauge (Type Rimco 7499 TBRG S/N - 83282) Rainfall Intensity
07/FEB/1997 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 75518) Rainfall Intensity
07/FEB/1997 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 76504) Rainfall Intensity
07/FEB/1997 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 76516) Rainfall Intensity
28/FEB/2019 UNSHARE Raingauge (Type Rimco 7499 TBRG S/N - 92445) Rainfall Intensity

River Height (No Electronic History)

Solar Radiation

26/APR/1997 INSTALL Global Pyranometer Mount (Type Carter Scott Mk1 S/N - Unknown) Radiation
15/AUG/1996 INSTALL Pyranometer (Type Kipp&Zonen CM11 S/N - 924011) Radiation
15/AUG/1996 INSTALL Pyranometer (Type Kipp&Zonen CM11 S/N - 924014) Radiation
26/APR/1997 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924011) Radiation
26/APR/1997 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924014) Radiation
04/AUG/1999 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924014) Radiation
11/SEP/2002 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924669) Radiation
29/AUG/2006 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924669) Radiation
11/SEP/2002 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924694) Radiation
29/AUG/2006 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924694) Radiation

Solar Radiation (Direct)

15/AUG/1996 INSTALL Pyrheliometer (Type Kipp&Zonen CH1 S/N - 940047) Radiation
11/SEP/2002 REPLACE Pyrheliometer (Now Carter Scott DN5 S/N - 5011) Radiation

Turbidity (No Electronic History)

Sea Water Level (No Electronic History)

Sea Water Temperature

15/NOV/2017 INSTALL Temperature Probe - Water (Type TEMP CONTROLS TCBMP02A S/N - 374) Surface Observations

Wind Speed

25/FEB/1969 INSTALL Anemometer (Type Dines - Hi Speed S/N - CBM1361) Surface Observations
01/JAN/1953 INSTALL Anemometer (Type Dines S/N - Unknown) Surface Observations
16/AUG/2021 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 80227) Surface Observations
16/AUG/2021 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 60308) Surface Observations
27/JUL/1995 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 7001-011) Surface Observations
16/AUG/2021 INSTALL Mast Anemometer (Type Pivot, SS 10m S/N - NONE) Infrastructure
27/JUL/1995 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - YBRM-GAM-01) Infrastructure
01/JAN/1966 INSTALL Wind Run Anemometer (Type Munro S/N - CBM322) Surface Observations
27/JUL/1995 REMOVE Anemometer (Type Dines S/N - Unknown) Surface Observations
16/AUG/2021 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - CBM26) Surface Observations
16/AUG/2021 REMOVE Mast Anemometer (Type Pivot, Standard 10m S/N - YBRM-GAM-01) Infrastructure
22/FEB/2001 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - CBM26) Surface Observations
03/DEC/2002 REPLACE Wind Run Anemometer (Now Munro S/N - CBM543) Surface Observations

Air Temperature

30/JUL/2021 INSTALL Humidity Probe (Type Vaisala HMP155A S/N - T1320163) Surface Observations

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Extended Climatological Station Metadata

All History

Station:	BROOME AIRPORT		Location:	BROOME AIRPORT		State:	WA
Bureau No.:	003003	WMO No.:	94203	Aviation ID:	YBRM	Opened:	01 Jan 1939
Latitude:	-17.9475	Longitude:	122.2352	Elevation:	7.42 m	Barometer Elev:	8.7 m
						Current Status:	Still open
						Metadata compiled:	26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

27/JUL/1995 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - NONE) Surface Observations
02/JUL/2008 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - 10235) Surface Observations
01/SEP/2015 REPLACE Temperature Probe - Dry Bulb (Now Temp Control TCBMP01 S/N - 10281/1) Surface Observations
01/JAN/1966 INSTALL Thermohygrograph (Type Unknown S/N - Unknown) Surface Observations
02/JUL/1995 REMOVE Thermohygrograph (Type Unknown S/N - Unknown) Surface Observations
01/AUG/1939 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - M2873) Surface Observations
17/SEP/2004 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 14539) Surface Observations
02/SEP/2005 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 16811) Surface Observations
19/SEP/2007 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - M3023) Surface Observations
12/SEP/2002 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - M6647) 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
11/SEP/2003 - 16/AUG/2021	Cloud Height	1
30/JUL/2021 - 16/AUG/2021	Humidity	1
01/JUN/1999 - 12/SEP/2007	Pressure Trend	0
31/JAN/2013 - 31/JAN/2013	Lightning	1
29/JUL/1996 - 16/AUG/2021	Wind Direction	4
01/FEB/1996 - 30/JUL/2021	Wet Bulb Temperature	0
15/AUG/1996 - 15/AUG/1996	Solar Radiation (Long Wave)	0
17/JUL/2000 - 12/SEP/2007	Maximum Temperature	0
17/JUL/2000 - 12/SEP/2007	Soil Temperature 10cm	0
17/JUL/2000 - 12/SEP/2007	Soil Temperature 20cm	0
17/JUL/2000 - 12/SEP/2007	Soil Temperature 50cm	0
17/JUL/2000 - 12/SEP/2007	Soil Temperature 100cm	1
17/JUL/2000 - 12/SEP/2007	Wind Run	0
17/JUL/2000 - 12/SEP/2007	Minimum Temperature	0
01/JUN/1999 - 12/SEP/2007	Terrestrial Minimum Temperature	0
11/SEP/2003 - 16/AUG/2021	Visibility	1
29/NOV/2010 - 30/JUL/2021	RF Reflectivity	0
31/JAN/1996 - 16/AUG/2021	Pressure	1
17/JUL/2000 - 29/JUL/2019	Evaporation	2
29/JUL/1996 - 16/AUG/2021	Rainfall	12
15/AUG/1996 - 26/APR/1997	Solar Radiation	0
15/AUG/1996 - 15/AUG/1996	Solar Radiation (Direct)	0
29/JUL/1996 - 16/AUG/2021	Wind Speed	4
01/FEB/1996 - 16/AUG/2021	Air Temperature	1

Station Detail Changes

09/MAY/2006 CLASSIFICATION AWS Funding - Aviation Funded Assets (AVAF)

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Extended Climatological Station Metadata

All History

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Bureau No.:	003003	WMO No.:	94203	Aviation ID:	YBRM	Opened:	01 Jan 1939
Latitude:	-17.9475	Longitude:	122.2352	Elevation:	7.42 m	Barometer Elev:	8.7 m
Current Status:							Still open
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Station Equipment History (continued)

Station Detail Changes(Continued)

12/OCT/2020 CLASSIFICATION AWS Priority 2 - Important (SLP2-AWS)

01/JUL/2011 CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT)

27/JUL/1995 CLASSIFICATION Basic & Severe (FBS)

26/JUN/2002 CLASSIFICATION CLIMAT Stations (CLC)

26/JUN/2002 CLASSIFICATION CLIMAT TEMP Stations (CLT)

09/MAY/2006 CLASSIFICATION Category A (TAF A)

07/JUL/2023 CLASSIFICATION Class 1 Temp & RH (C1-TEMP-RH)

17/JUL/2023 CLASSIFICATION Class 2 Precip (C2-PRECIP)

07/JUL/2023 CLASSIFICATION Class 2 Wind (C2-WIND)

07/JUL/2023 CLASSIFICATION Class 4 Precip (C4-PRECIP)

17/JUL/2023 CLASSIFICATION Class 4 Temp & RH (C4-TEMP-RH)

17/JUL/2023 CLASSIFICATION Class 4 Wind (C4-WIND)

10/JAN/2011 CLASSIFICATION Critical (ASOSCRIT)

10/JUN/2014 CLASSIFICATION Critical Aviation or Defence (AVCRIT) ENDED 16-10-2020

01/MAY/1997 CLASSIFICATION GCOS Surface Network (GSN)

14/FEB/1997 CLASSIFICATION GCOS Upper Air Network (GUAN)

01/JUL/2018 CLASSIFICATION HQ EVAPORATION (HQEVAP)

01/JUL/1998 CLASSIFICATION Information and Observations (MIO)

30/AUG/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 - Darwin (OOH-D)

01/JUL/1998 CLASSIFICATION Rawinsonde Stations (RS)

01/SEP/1992 CLASSIFICATION Reference Climate Stations (RCS) ENDED 30-06-2011

14/FEB/1997 CLASSIFICATION Regional Basic Synoptic Network (RBSN)

01/SEP/2023 CLASSIFICATION Western Australia (1) (WA_1)

20/AUG/2009 OBJECT Document/003003090820tnt

07/JAN/2020 OBJECT Document/20101119 - Lightning Damage

20/OCT/2010 OBJECT Document/20110408-YBRM-RBL-Door-Issues-Email-RESM

09/AUG/2019 OBJECT Document/20190730-YBRM-AWS-Anemometer-Mast-Audit-EDMS-122429

27/OCT/2008 OBJECT Document/BAROMETER COEFFICIENTS

21/APR/2008 OBJECT Document/Broome Survey Report

18/MAR/2016 OBJECT Document/Broome-Pressure-Vessel-1-Inspect-20160318

18/MAR/2016 OBJECT Document/Broome-Pressure-Vessel-2-Inspect-20160318

18/MAR/2016 OBJECT Document/Broome-Pressure-Vessel-3-Inspect-20160318

18/MAR/2016 OBJECT Document/Broome-Pressure-Vessel-4-Inspect-20160318

15/JUN/2011 OBJECT Document/CEILOMETER STATUS

12/SEP/2011 OBJECT Document/CEILOMETER STATUS

11/FEB/2013 OBJECT Document/CEILOMETER STATUS

04/OCT/2013 OBJECT Document/CEILOMETER STATUS

10/DEC/2010 OBJECT Document/CEILOMETER STATUS

16/AUG/2012 OBJECT Document/CEILOMETER STATUS

09/MAY/2012 OBJECT Document/CEILOMETER STATUS

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Extended Climatological Station Metadata

All History

Station:	BROOME AIRPORT		Location:	BROOME AIRPORT		State:	WA
Bureau No.:	003003	WMO No.:	94203	Aviation ID:	YBRM	Opened:	01 Jan 1939
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Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

17/MAR/2014 OBJECT Document/CEILOMETER STATUS
09/AUG/2016 OBJECT Document/CEILOMETER STATUS
11/JAN/2019 OBJECT Document/CEILOMETER STATUS
30/JUL/2019 OBJECT Document/CEILOMETER STATUS
04/JUL/2017 OBJECT Document/CEILOMETER STATUS
19/AUG/2020 OBJECT Document/CEILOMETER STATUS
16/AUG/2021 OBJECT Document/CEILOMETER STATUS
27/OCT/2008 OBJECT Document/EC99- AWS Corrections
27/OCT/2007 OBJECT Document/Instrument Relocatio
24/OCT/2008 OBJECT Document/Obs Advice 45/523pdf
19/SEP/2016 OBJECT Document/RSS VALIDATION RECORD
11/DEC/2006 OBJECT Document/SITE LEASE
22/MAY/2006 OBJECT Document/SKYLINE DATA
08/SEP/2008 OBJECT Document/SKYLINE DATA
22/APR/2009 OBJECT Document/SKYLINE DATA
02/SEP/2005 OBJECT Document/SKYLINE DATA
13/JUL/2014 OBJECT Document/SKYLINE DATA
17/JUL/2003 OBJECT Document/SKYLINE DATA
17/MAR/2010 OBJECT Document/SolarCal Broome
12/SEP/2011 OBJECT Document/VISIBILITY METER STATUS
11/FEB/2013 OBJECT Document/VISIBILITY METER STATUS
04/OCT/2013 OBJECT Document/VISIBILITY METER STATUS
14/JUN/2011 OBJECT Document/VISIBILITY METER STATUS
10/DEC/2010 OBJECT Document/VISIBILITY METER STATUS
06/AUG/2012 OBJECT Document/VISIBILITY METER STATUS
09/MAY/2012 OBJECT Document/VISIBILITY METER STATUS
09/AUG/2016 OBJECT Document/VISIBILITY METER STATUS
14/JAN/2019 OBJECT Document/VISIBILITY METER STATUS
30/JUL/2019 OBJECT Document/VISIBILITY METER STATUS
04/JUL/2017 OBJECT Document/VISIBILITY METER STATUS
17/MAR/2014 OBJECT Document/VISIBILITY METER STATUS
19/AUG/2020 OBJECT Document/VISIBILITY METER STATUS
16/AUG/2021 OBJECT Document/VISIBILITY METER STATUS
01/JAN/1939 STATION - (nondb seeding) Opened
01/JAN/1939 STATION - (nondb seeding) aero_ht Changed to 17.4
01/JAN/1939 STATION - (nondb seeding) latitude Changed to -17.9492
01/JAN/1939 STATION - (nondb seeding) longitude Changed to 122.2336
01/JAN/1939 STATION - (nondb seeding) name Changed to BROOME AIRPORT
01/JAN/1939 STATION - (nondb seeding) stn_ht Changed to 7
01/JAN/1939 STATION - (nondb seeding) stn_ht_deriv Changed to SURVEY
01/JAN/1939 STATION - (nondb seeding) wmo_num Changed to 94203
01/JAN/1939 STATION aviation_id Changed to YBRM
01/JAN/1939 STATION bar_ht Changed to 8.74

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Extended Climatological Station Metadata
All History

Station:	BROOME AIRPORT		Location:	BROOME AIRPORT		State:	WA
Bureau No.:	003003	WMO No.:	94203	Aviation ID:	YBRM	Opened:	01 Jan 1939
Latitude:	-17.9475	Longitude:	122.2352	Elevation:	7.42 m	Barometer Elev:	8.7 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

01/JAN/1939 STATION bar_ht_deriv Changed to SURVEY
12/JUN/2018 STATION latitude Changed to -17.94753
19/OCT/2006 STATION latitude Changed to -17.9475WGS 84
01/JAN/1939 STATION latlon_deriv Changed to GPS
12/JUN/2018 STATION latlon_deriv Changed to GPS
19/OCT/2006 STATION latlon_deriv Changed to GPS
12/JUN/2018 STATION latlon_error Changed to 2
01/JAN/1939 STATION latlon_error Changed to 97
12/JUN/2018 STATION longitude Changed to 122.23520
19/OCT/2006 STATION longitude Changed to 122.2353WGS 84
01/JUN/1999 STATION lu_0_100m Changed to Airport
01/JUN/1999 STATION lu_100m_1km Changed to Airport
12/SEP/2002 STATION lu_1km_10km Changed to City area, buildings < 10 metres (3 storey)
01/JUN/1999 STATION lu_1km_10km Changed to Town 1000 to 10,000
01/JUN/1999 STATION soil_type Changed to red soil
21/APR/2008 STATION stn_ht Changed to 7.42
21/APR/2008 STATION stn_ht_deriv Changed to SURVEY
01/JUN/1999 STATION surface_type Changed to partly covered by grass

System Changes

01/AUG/1939 SYSTEM Infrastructure Commenced
15/AUG/1996 SYSTEM Radiation Commenced
28/FEB/2019 SYSTEM Rainfall Intensity Ceased
01/JAN/1948 SYSTEM Rainfall Intensity Commenced
01/JAN/2011 SYSTEM Reference Standards Commenced
01/AUG/1939 SYSTEM Surface Observations Commenced
21/APR/1965 SYSTEM Upper Air Commenced
01/JAN/1975 SYSTEM WeatherWatch Commenced

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Notes on these metadata

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

Reliability of the metadata

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

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

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

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

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

Station Number

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

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

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Notes on these metadata

Network Classification

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

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

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Notes on these metadata

Network Classification Continued....

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

Station Purpose

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

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

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

Station Observation Program Summary

Surface Observations

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

Set a)

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

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Notes on these metadata

Surface observations continued....

Set b)

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

Current Station Equipment Summary

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

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

Station Equipment History

Equipment Install/Remove

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

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

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

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

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

Unshare - The instrument is no longer shared between systems

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

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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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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