



Basic Climatological Station Metadata
Current status

Metadata compiled: 28 JUL 2025

Station: WOOMERA AERODROME

Bureau of Meteorology station number: 016001
Bureau of Meteorology district name: Northwest
State: SA

World Meteorological Organization number: 94659
Identification: YPWR

Network Classification: CLIMAT Stations, CLIMAT TEMP Stations, 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	-31.1558	Hour Min Sec	31°9'21"S
Longitude	Decimal	136.8054	Hour Min Sec	136°48'19"E
Station Height	166.6 m	Barometer Height	168.5 m	
Method of station geographic positioning			GPS	

Year opened: 1949
Status: Open

Station summary

No summary for this site has been written as yet.

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



Basic Climatological Station Metadata
Current status

Station:	WOOMERA AERODROME	Location:	WOOMERA AERODROME	State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR
Latitude:	-31.1558	Longitude:	136.8054	Opened:	01 Jan 1949
		Elevation:	166.6 m	Barometer Elev:	168.5 m
				Current Status:	Still open
				Metadata compiled:	28 JUL 2025

Observation summary

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



DAILY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
EVAPORATION	JAN 1967	JUL 2017	97.0	477	2
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	SEP 1968	JUN 2015	87.6	527	52
GROUND MINIMUM TEMPERATURE	MAY 1949	JAN 2016	91.9	970	33
MAXIMUM AIR TEMPERATURE	APR 1949	JUN 2025	99.8	45	0
MAXIMUM WIND GUST SPEED	MAY 1949	JUN 2025	85.7	714	107
SUNSHINE HOURS	JAN 1951	JUN 2017	95.0	930	9
WIND RUN ABOVE 10 FEET	MAY 1992	JUN 2025	95.5	295	8
WIND RUN BELOW 10 FEET	SEP 1968	JUL 2017	96.4	546	3
RAINFALL	JAN 1949	JUL 2025	99	N/A	N/A

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Bureau No.: 016001		WMO No.: 94659		Aviation ID: YPWR		Opened: 01 Jan 1949		Current Status: Still open	
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HOURLY DATA HOLDINGS - from 1 to 24 observations per day

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
AIR TEMPERATURE	APR 1949	JUN 2025	98.8	10.3	14	0
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
DEW POINT	MAY 1949	JUN 2025	98.7	10.3	20	0
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
MEAN SEA LEVEL PRESSURE	JUL 1951	JUN 2025	98.7	10.4	22	0
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
SOIL TEMPERATURE - 10cm	DEC 2000	MAY 2016	90.6	2.0	388	0
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
TOTAL CLOUD AMOUNT	APR 1949	JUN 2025	92.1	6.0	1233	0
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
WIND SPEED	APR 1949	JUN 2025	98.9	10.5	14	0
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
UPPER AIR TEMPERATURE	APR 1949	JUN 2025	72.7	1.6	1942	2
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
UPPER AIR WIND SPEED	JAN 1950	JUN 2025	85.4	3.1	771	17
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	

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RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	AUG 1955	SEP 2017	84.1	1108	82

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	1432.9	N/A	7

HALF-HOURLY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	APR 1992	JUL 2025	103.0	49.4	N/A	0

UPPER-AIR EDT DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
Wind only flights	Jun 2000	Jan 2017	N/A	1.6	425	180
Wind, temperature and pressure flights	Mar 1991	Jan 2018	N/A	1.3	376	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

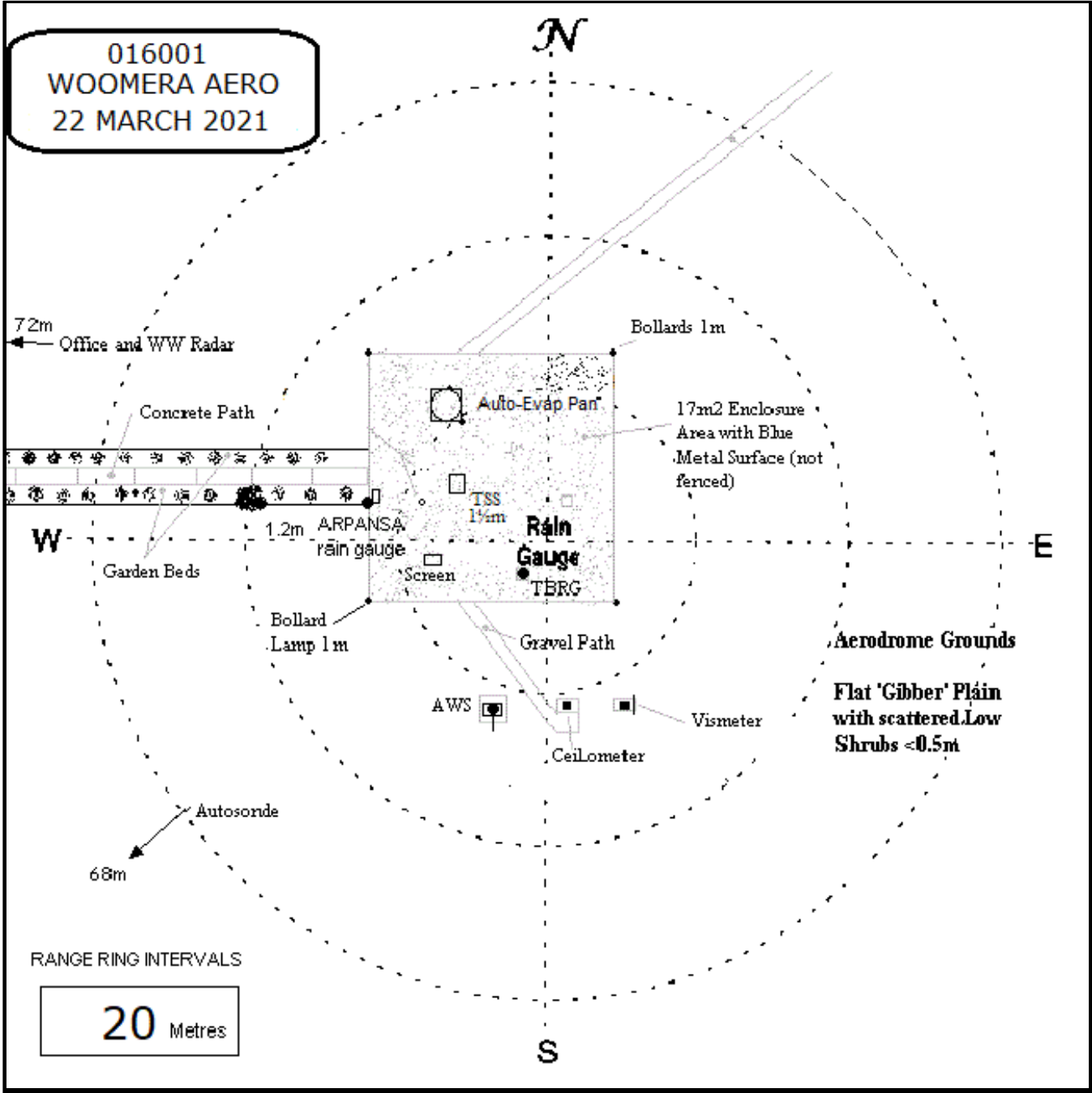
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Extended Climatological Station Metadata
All History

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Instrument Location and Surrounding Features
22/03/2021(most recent)



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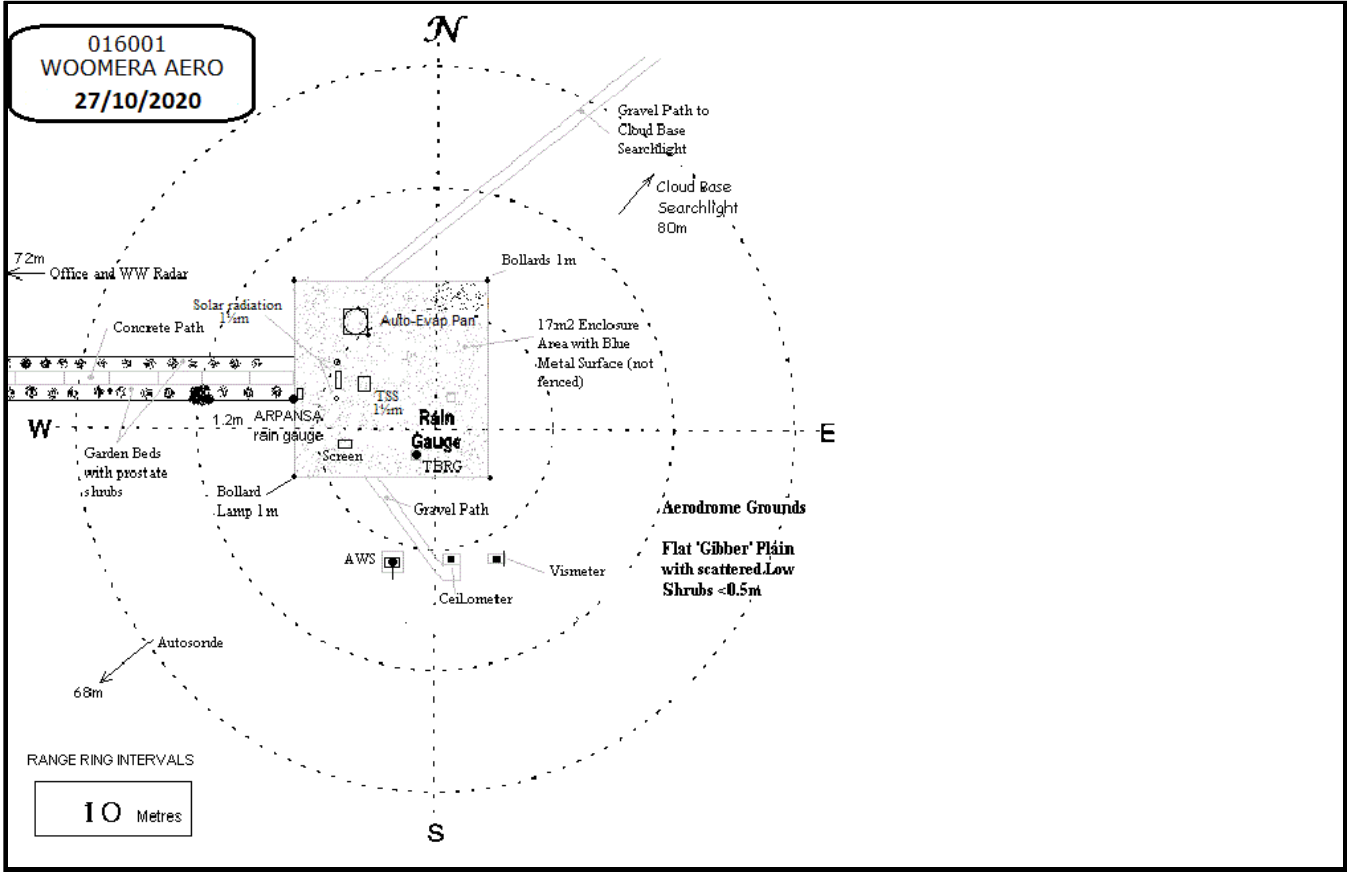
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Instrument Location and Surrounding Features
27/10/2020



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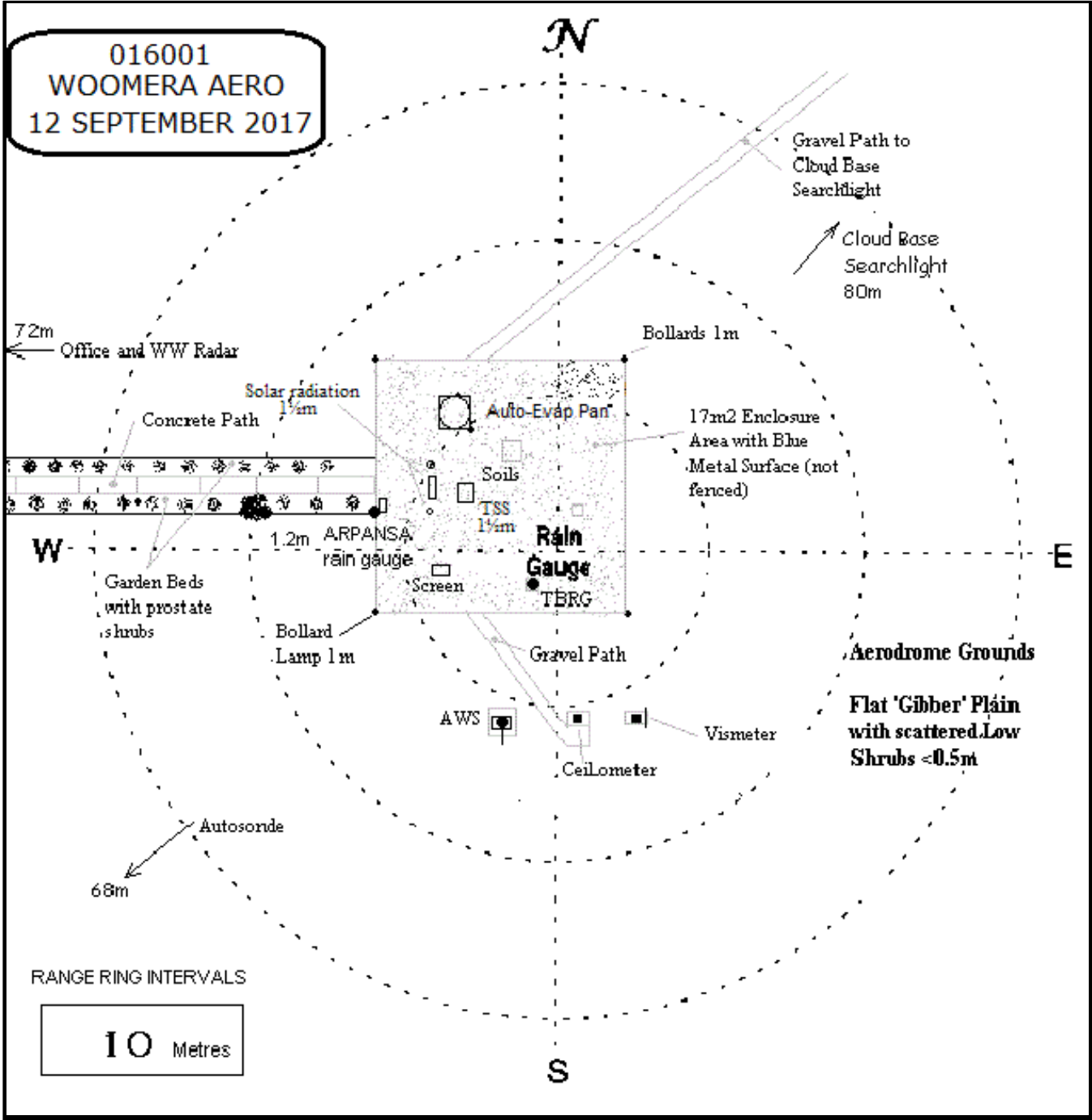
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Instrument Location and Surrounding Features
12/09/2017



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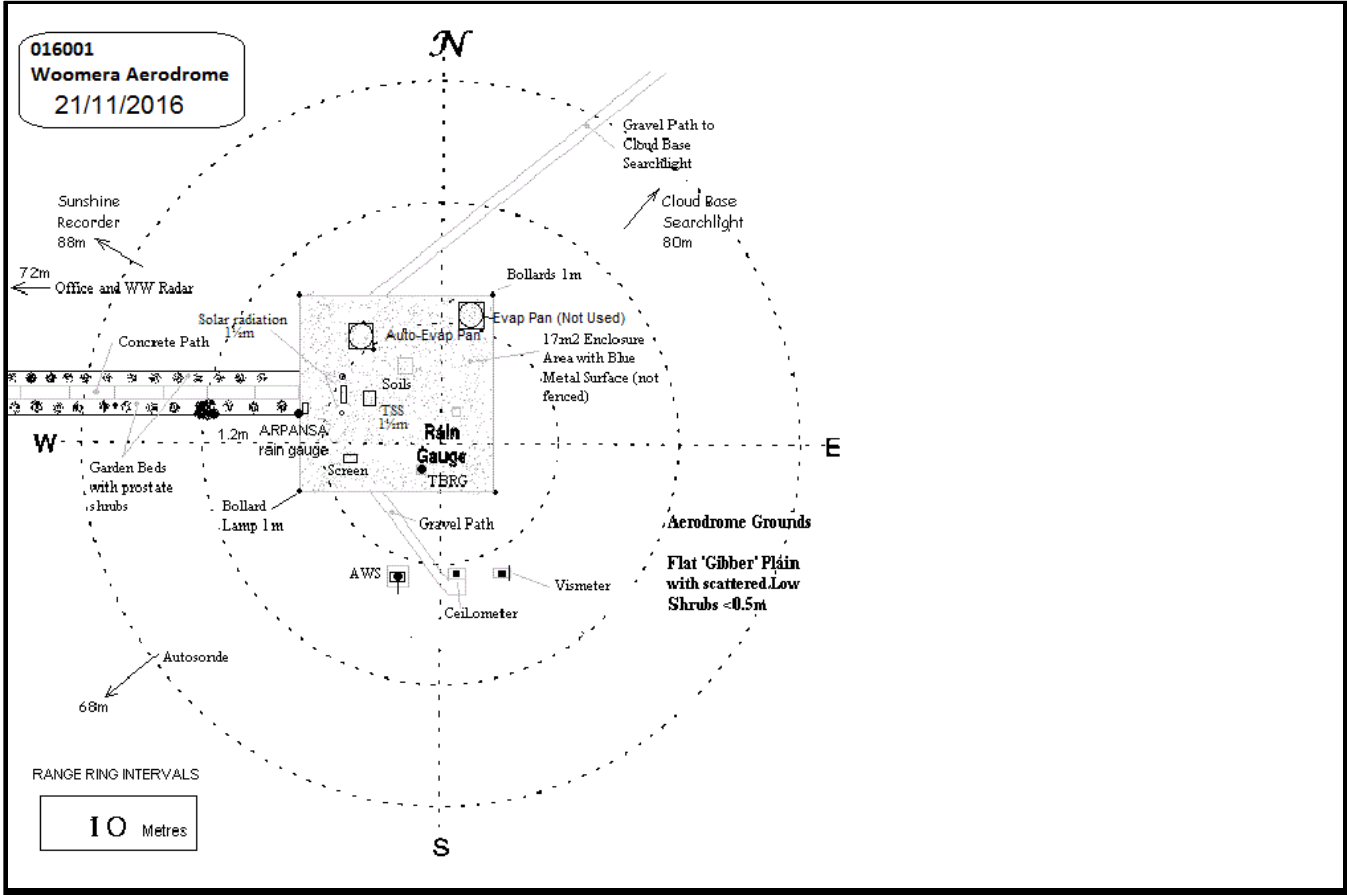
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Instrument Location and Surrounding Features
21/11/2016



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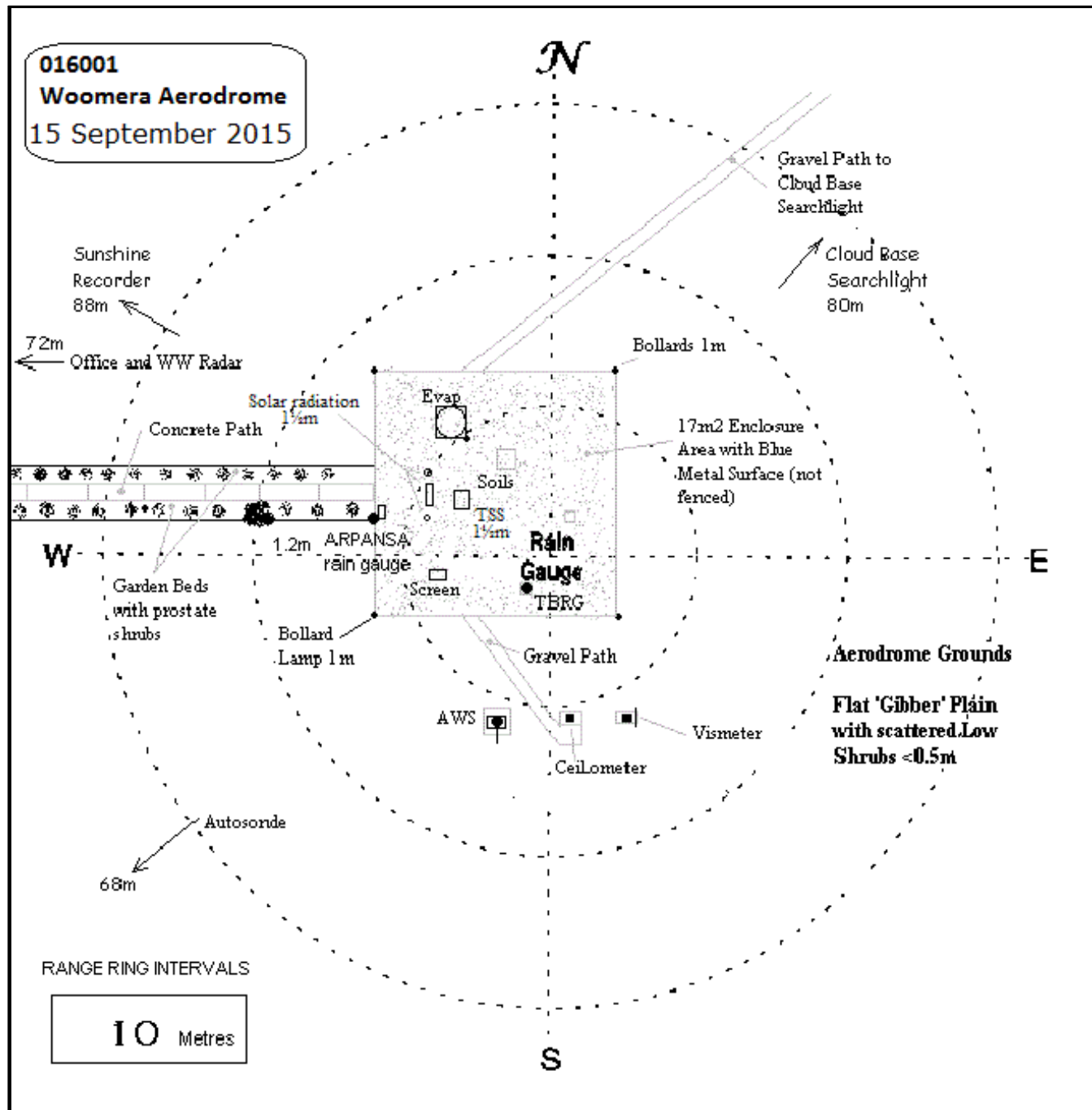
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

15/09/2015



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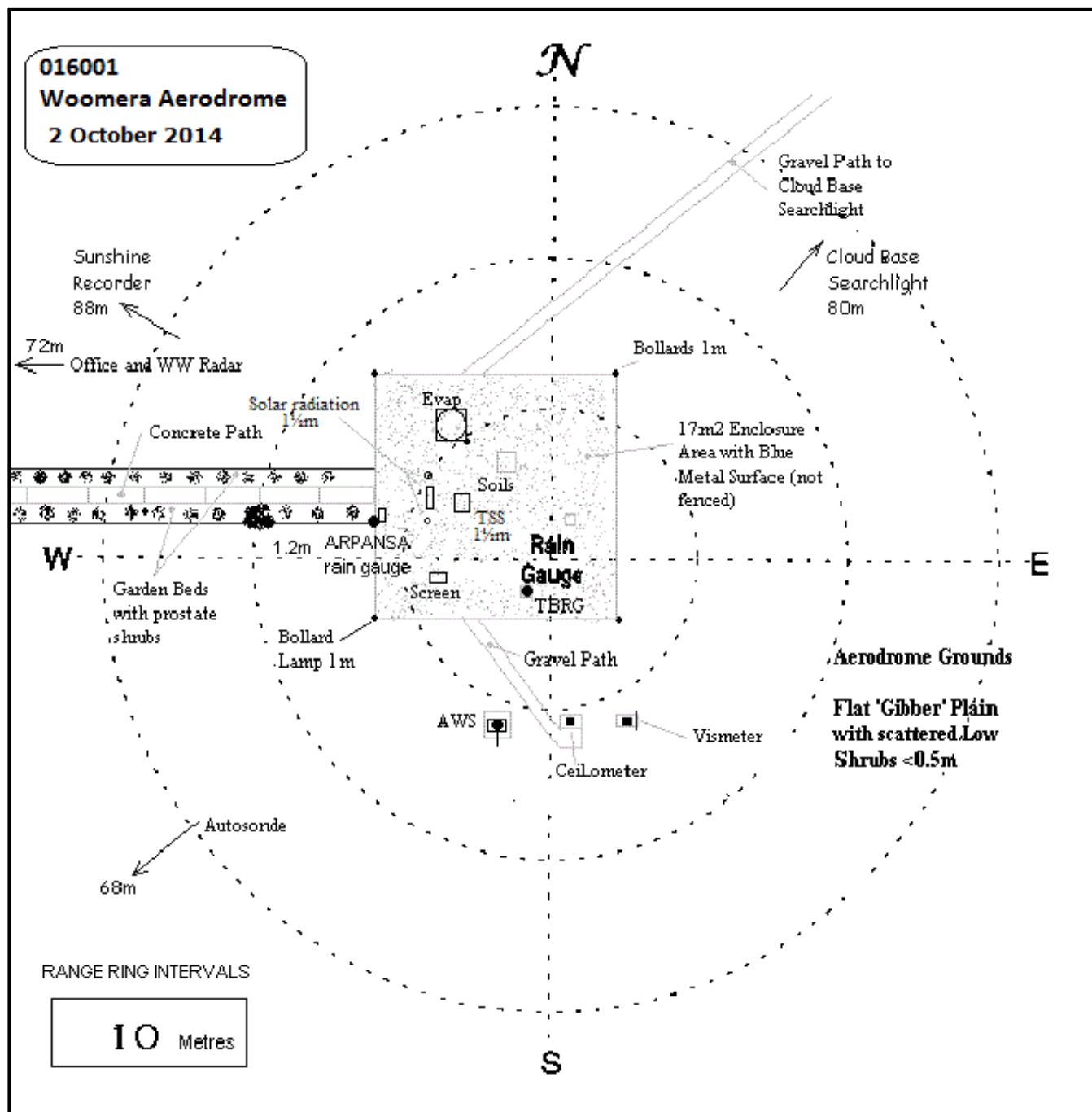
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Instrument Location and Surrounding Features

02/10/2014



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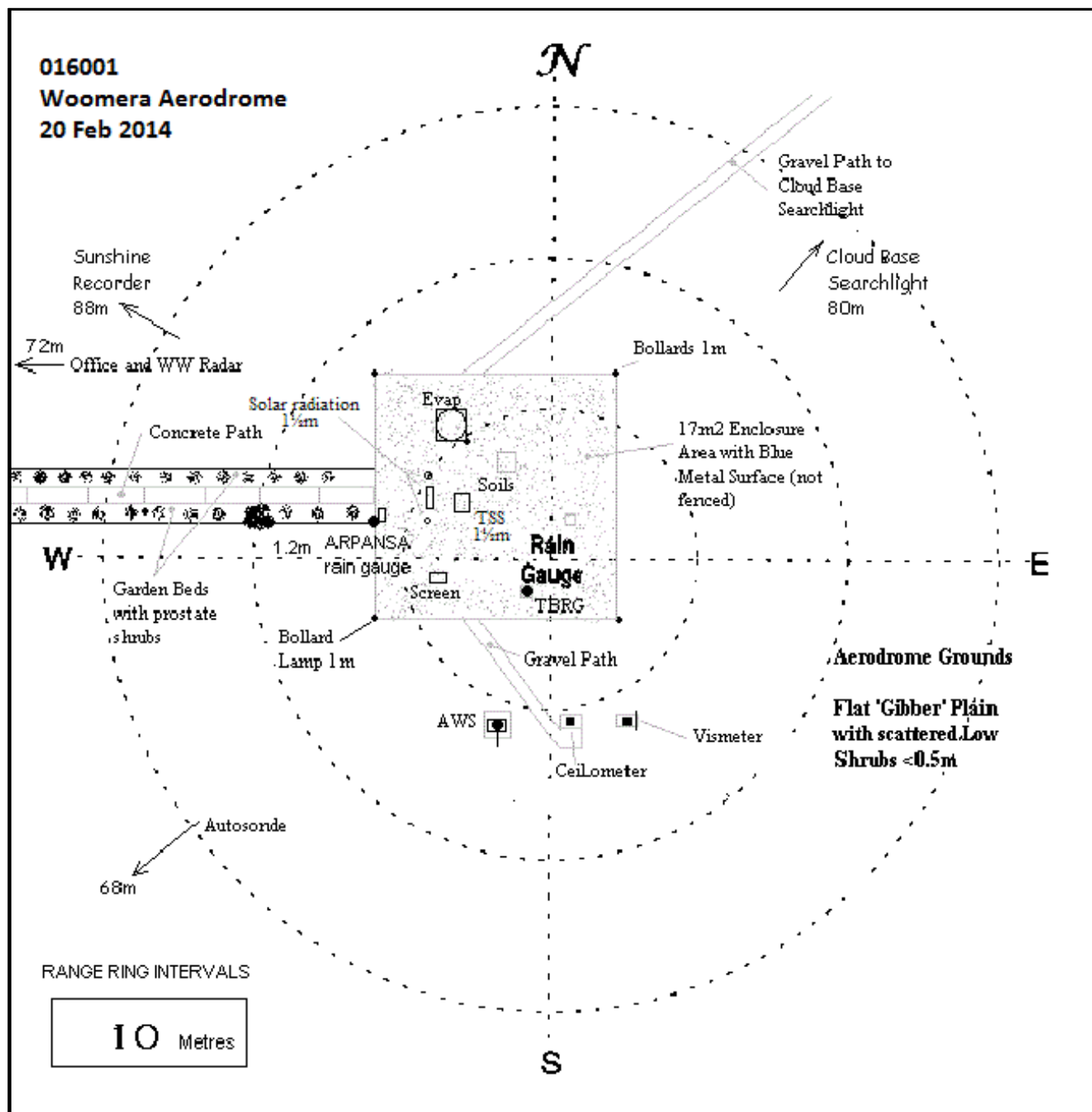
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

17/02/2014



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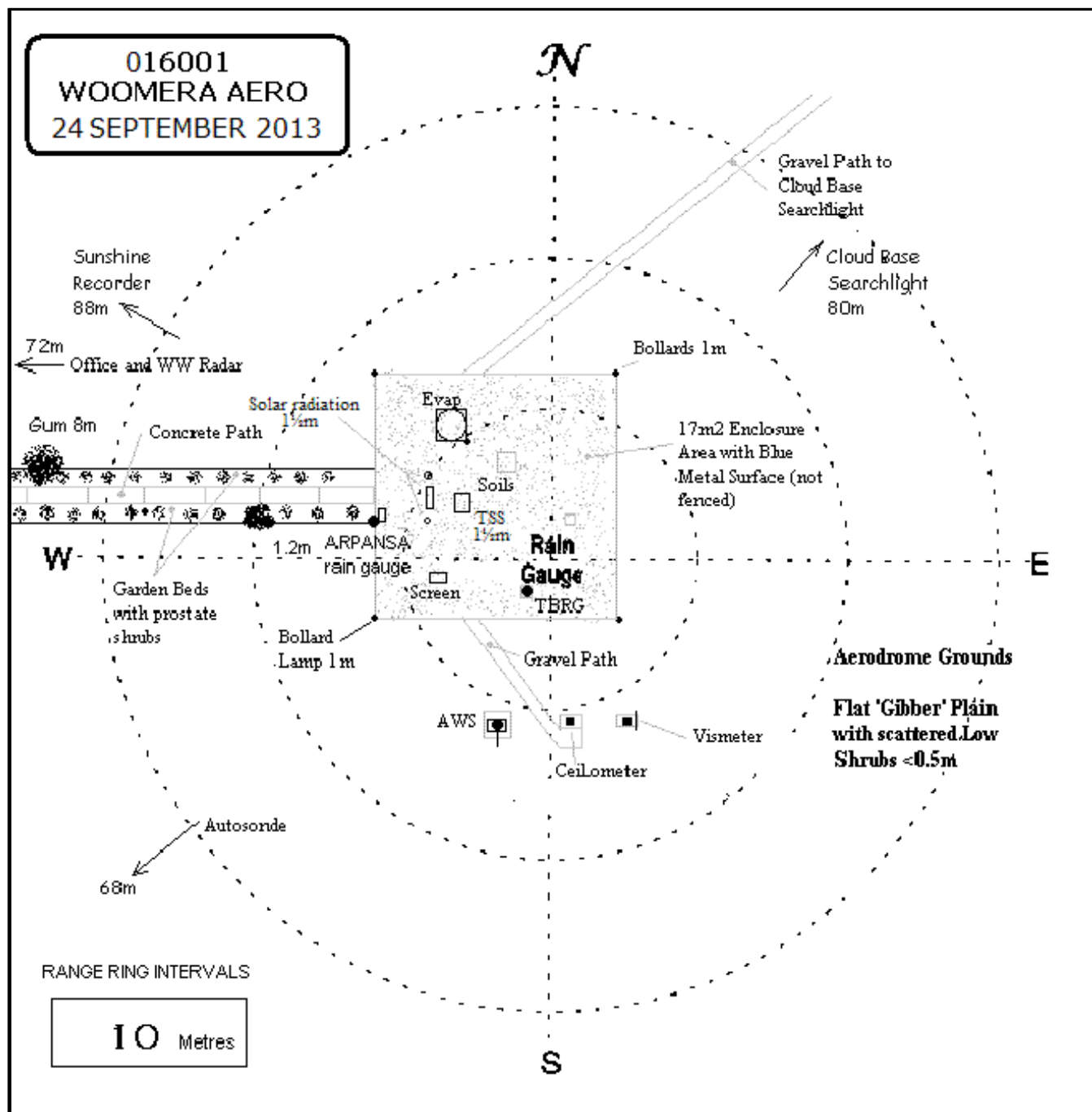
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

24/09/2013



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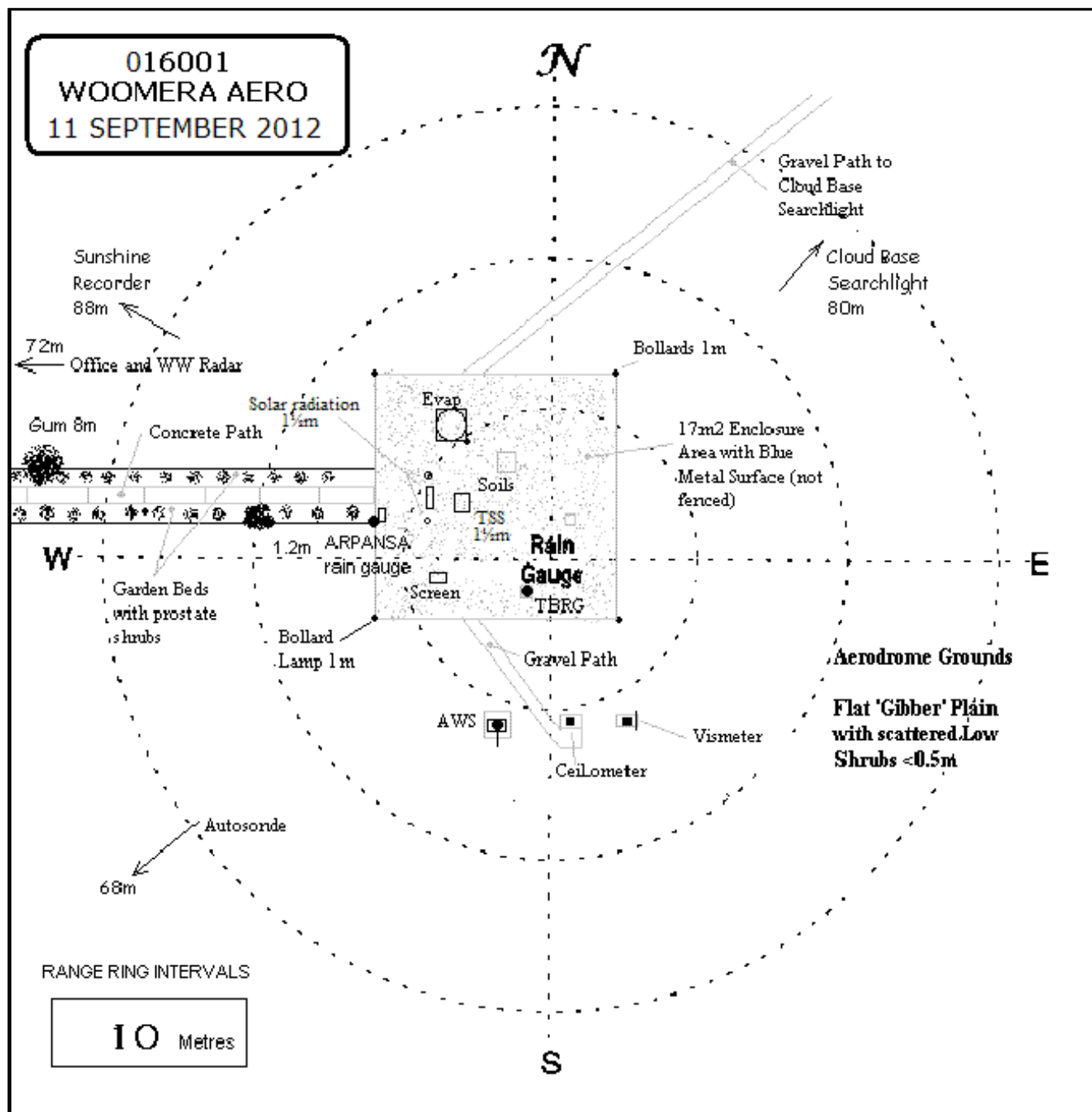
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Instrument Location and Surrounding Features

11/09/2012



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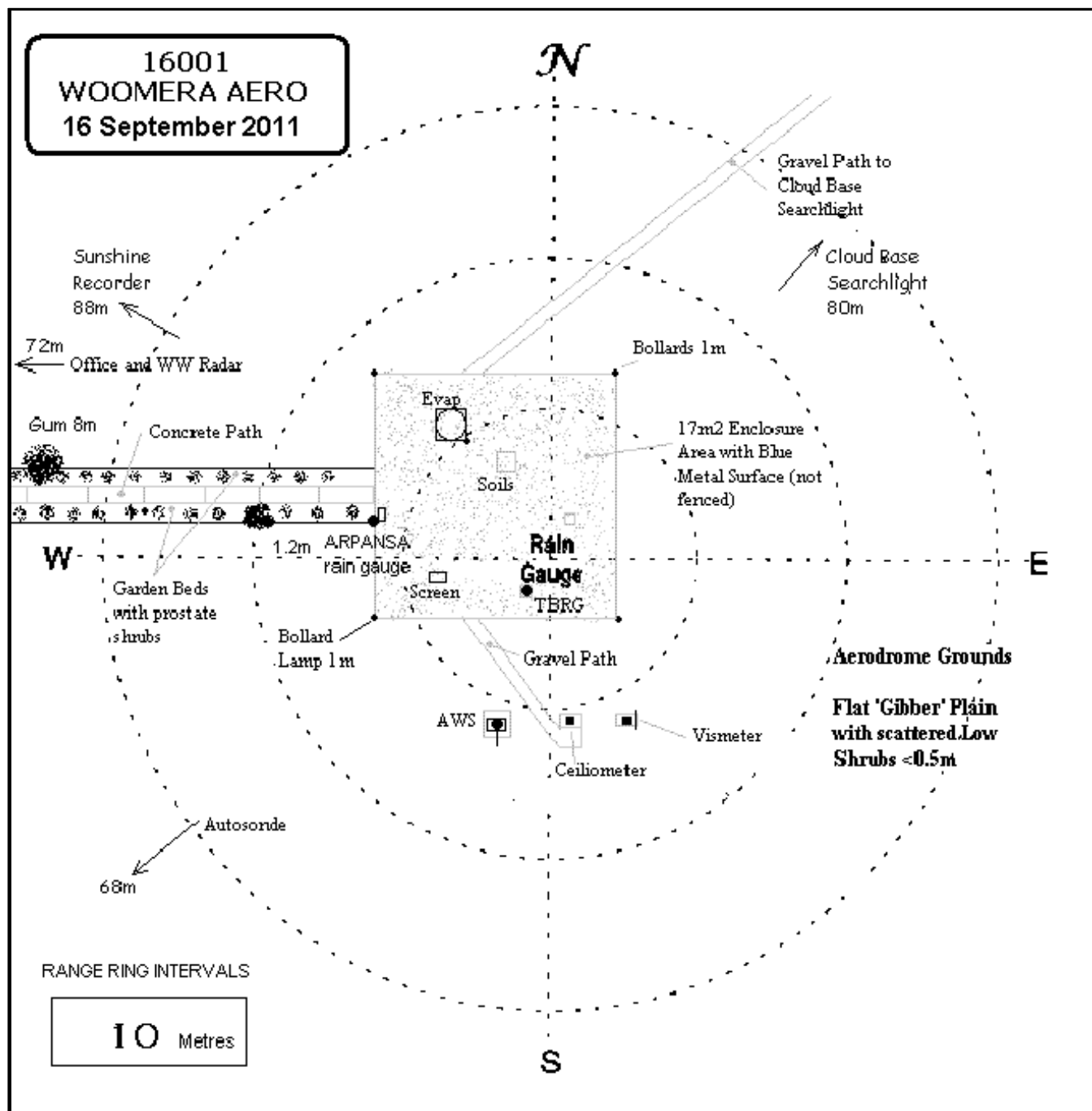
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Instrument Location and Surrounding Features

16/09/2011



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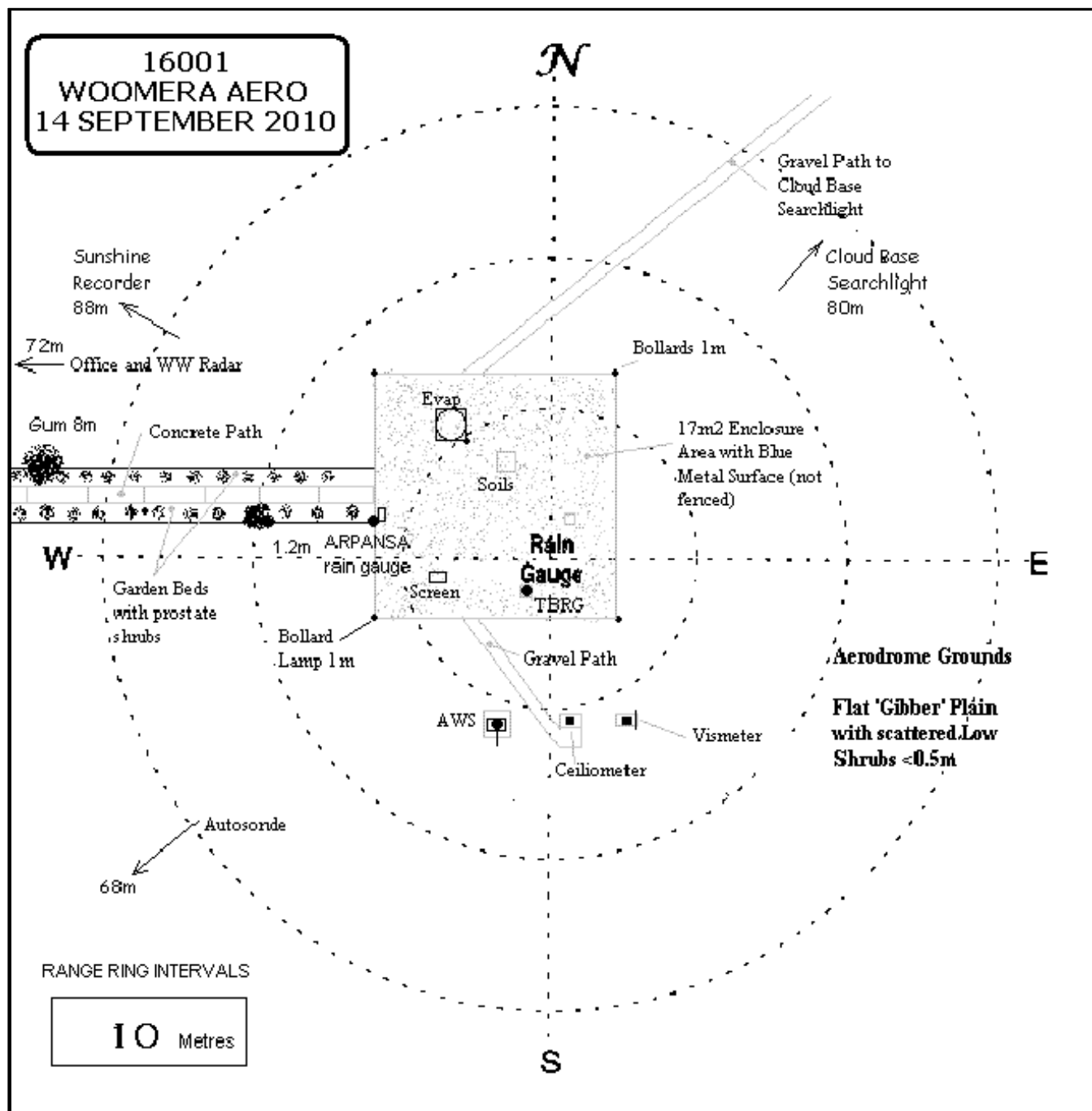
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Instrument Location and Surrounding Features

14/09/2010



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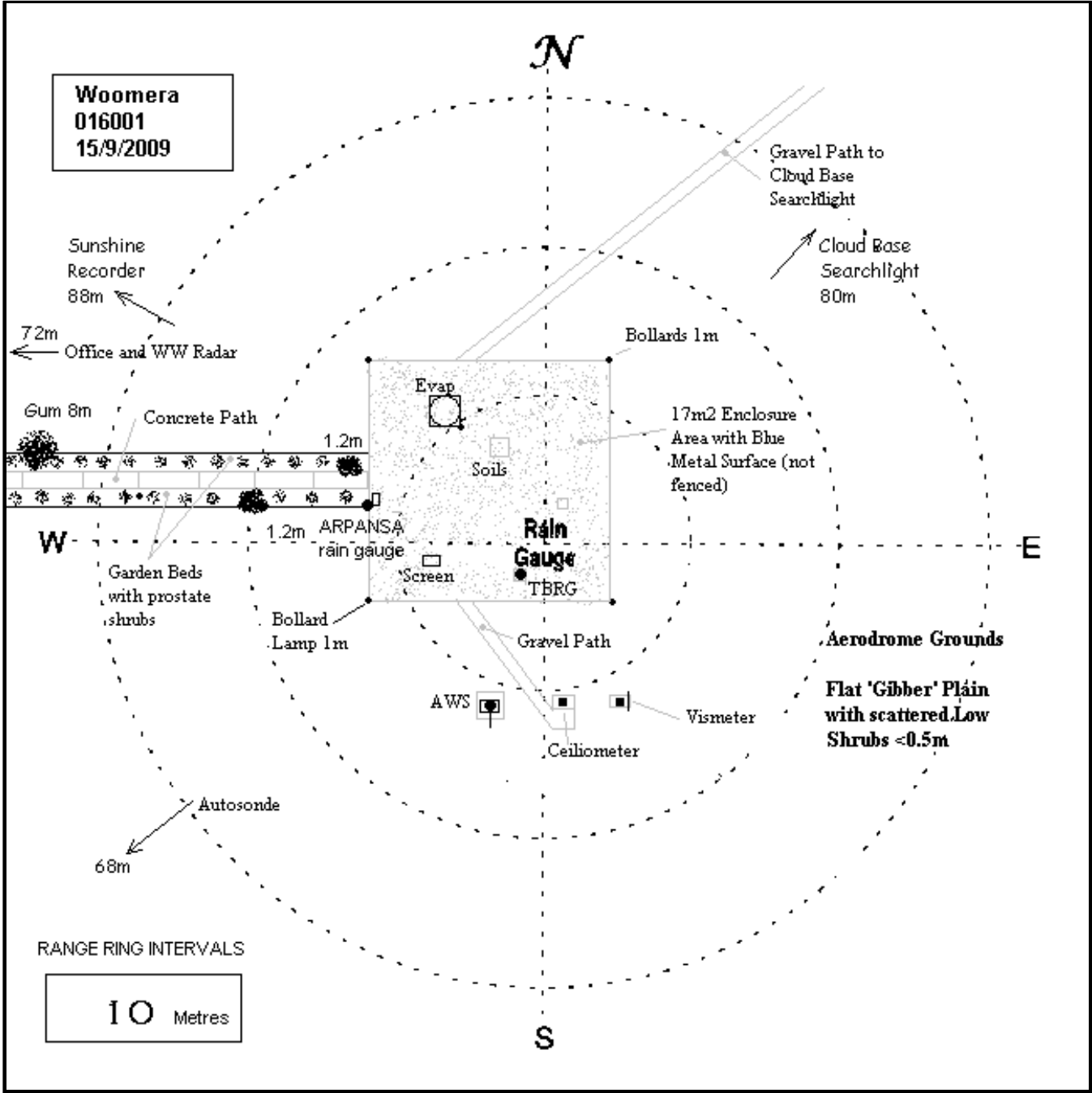
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Instrument Location and Surrounding Features
15/09/2009



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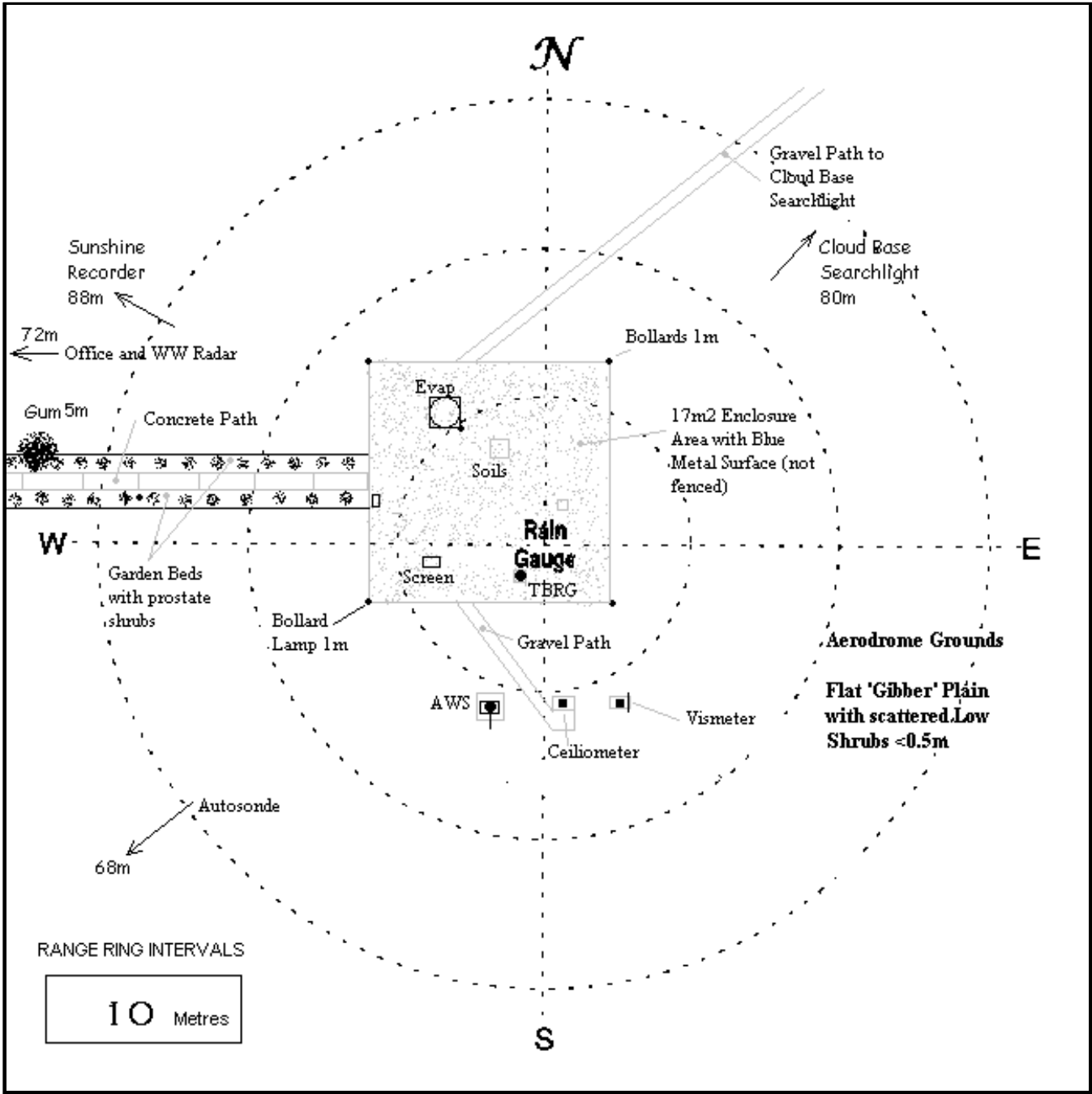
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Instrument Location and Surrounding Features
23/09/2008



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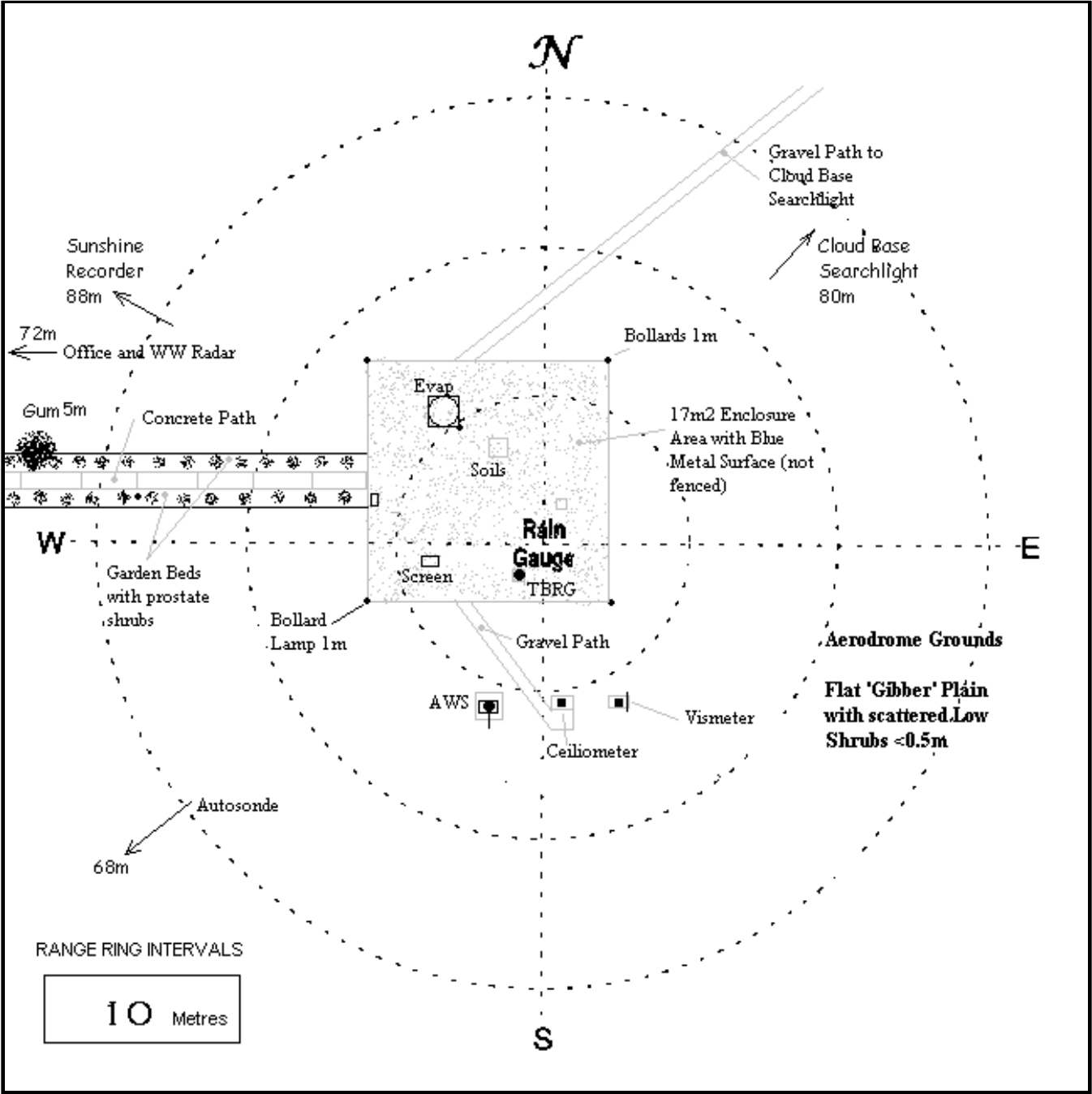
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Instrument Location and Surrounding Features
03/10/2007



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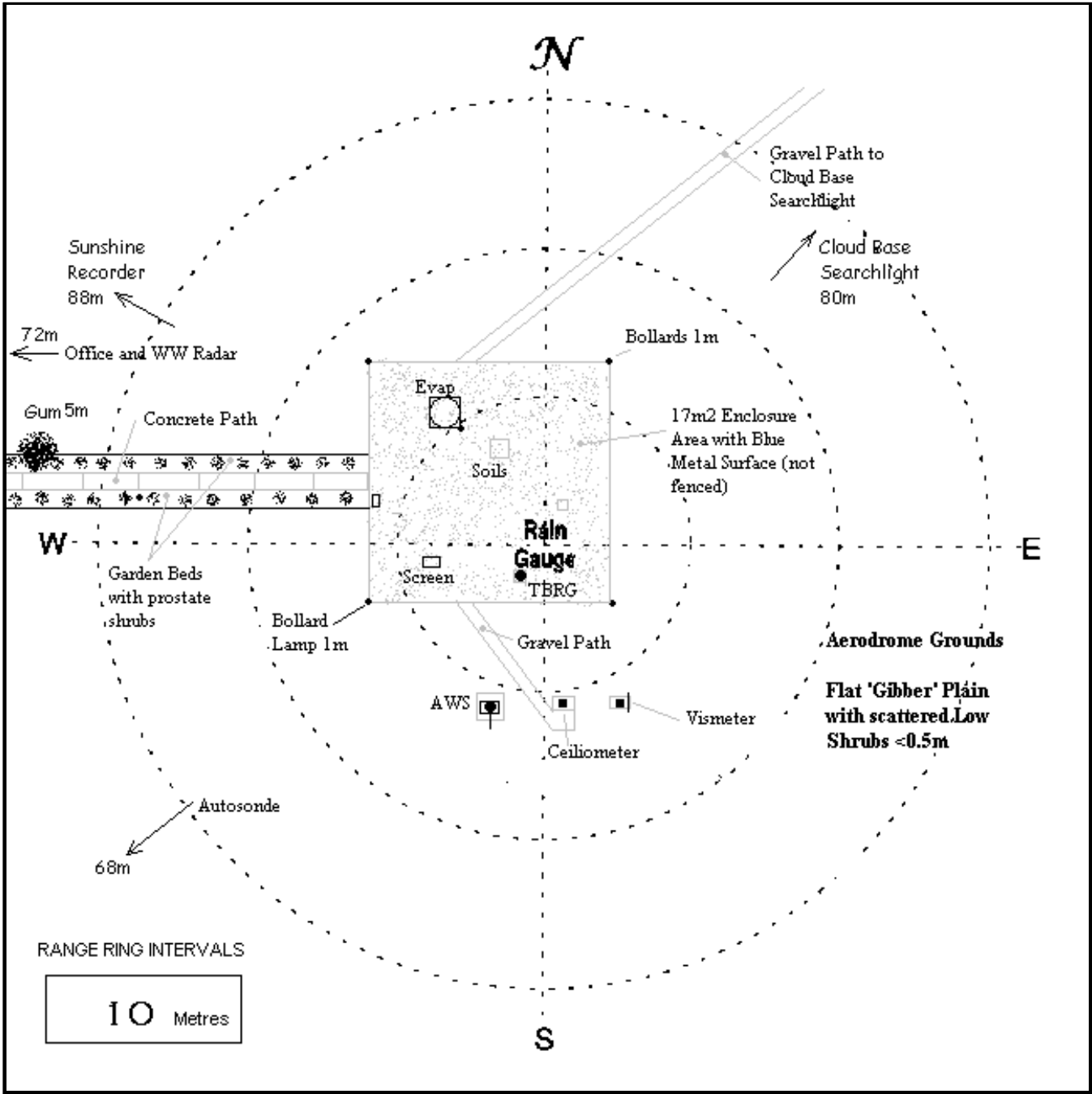
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Instrument Location and Surrounding Features
18/10/2006



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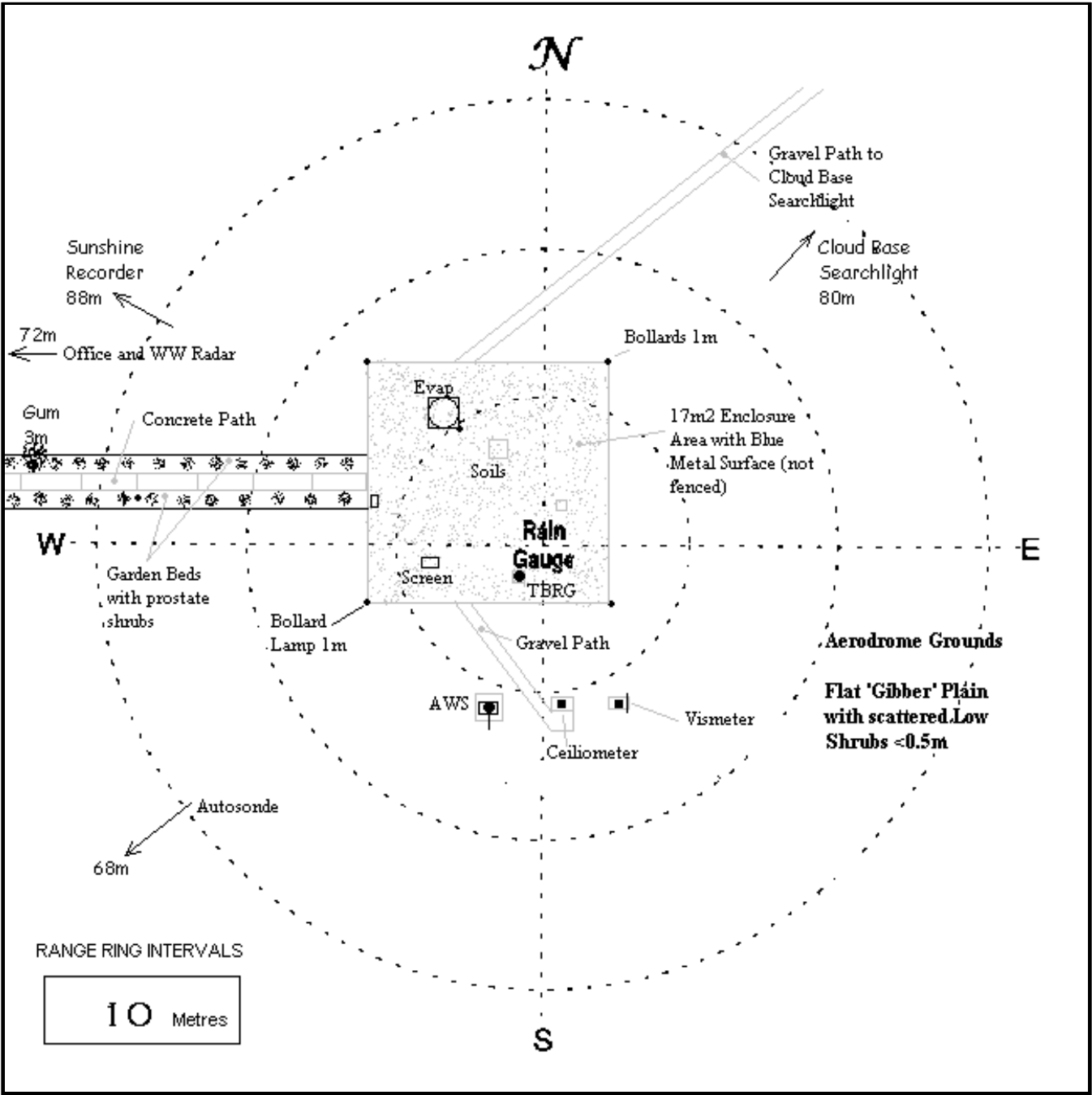
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Extended Climatological Station Metadata
All History

Station:	WOOMERA AERODROME		Location:	WOOMERA AERODROME		State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m
						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
18/10/2005



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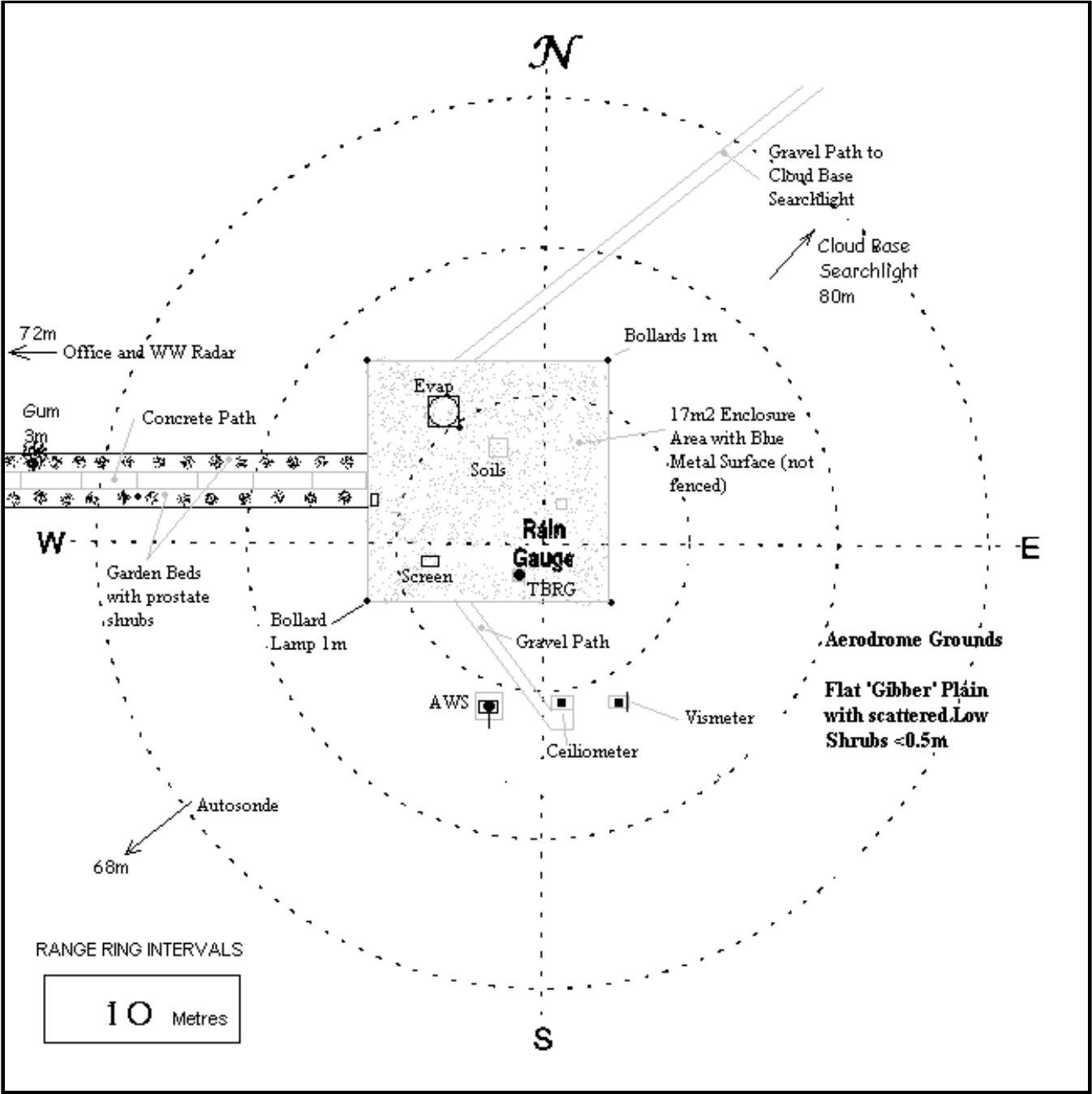
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Extended Climatological Station Metadata
All History

Station:	WOOMERA AERODROME		Location:	WOOMERA AERODROME		State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m
						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
14/09/2004



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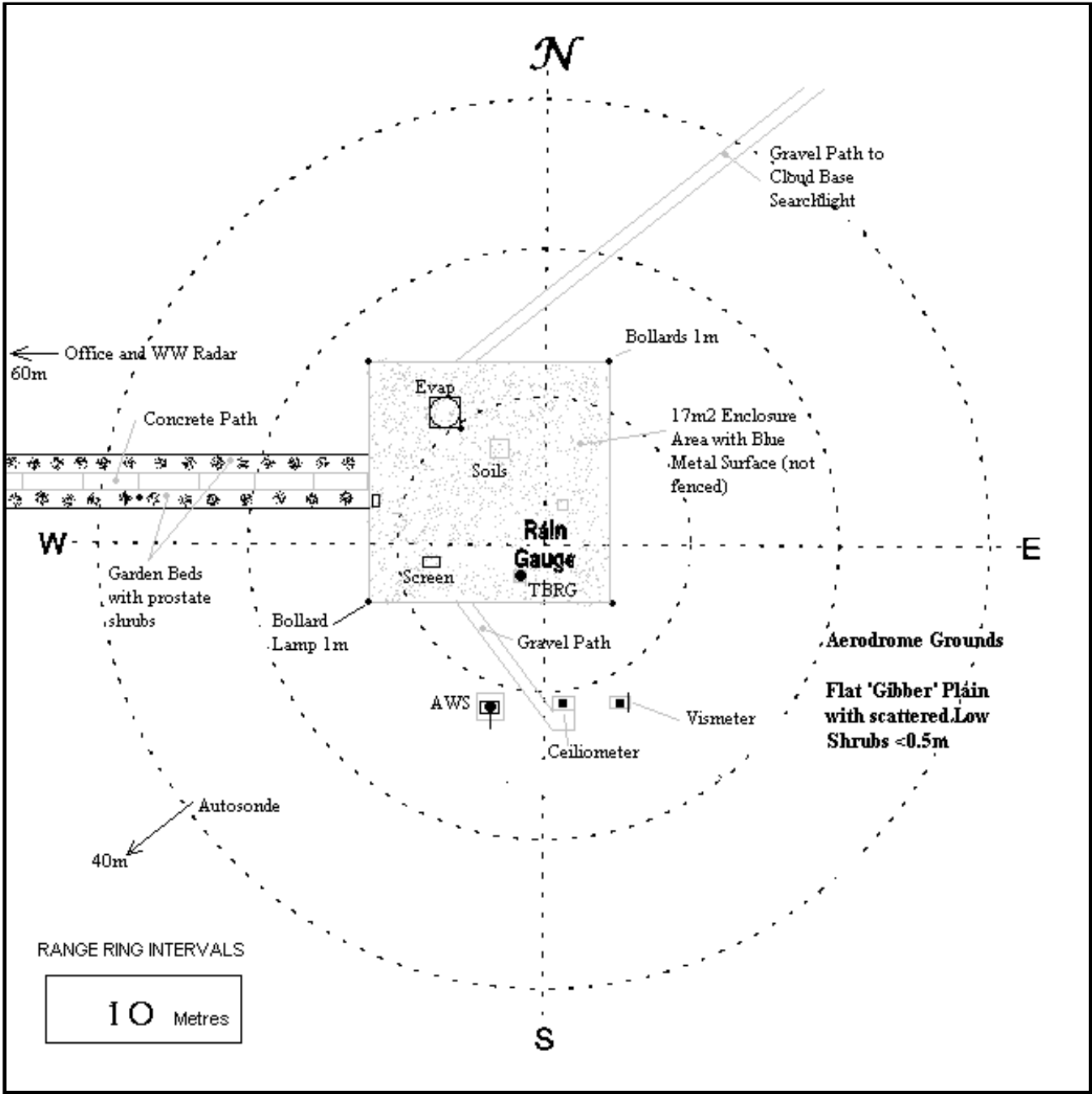
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Extended Climatological Station Metadata
All History

Station:	WOOMERA AERODROME		Location:	WOOMERA AERODROME		State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m
						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
26/08/2003



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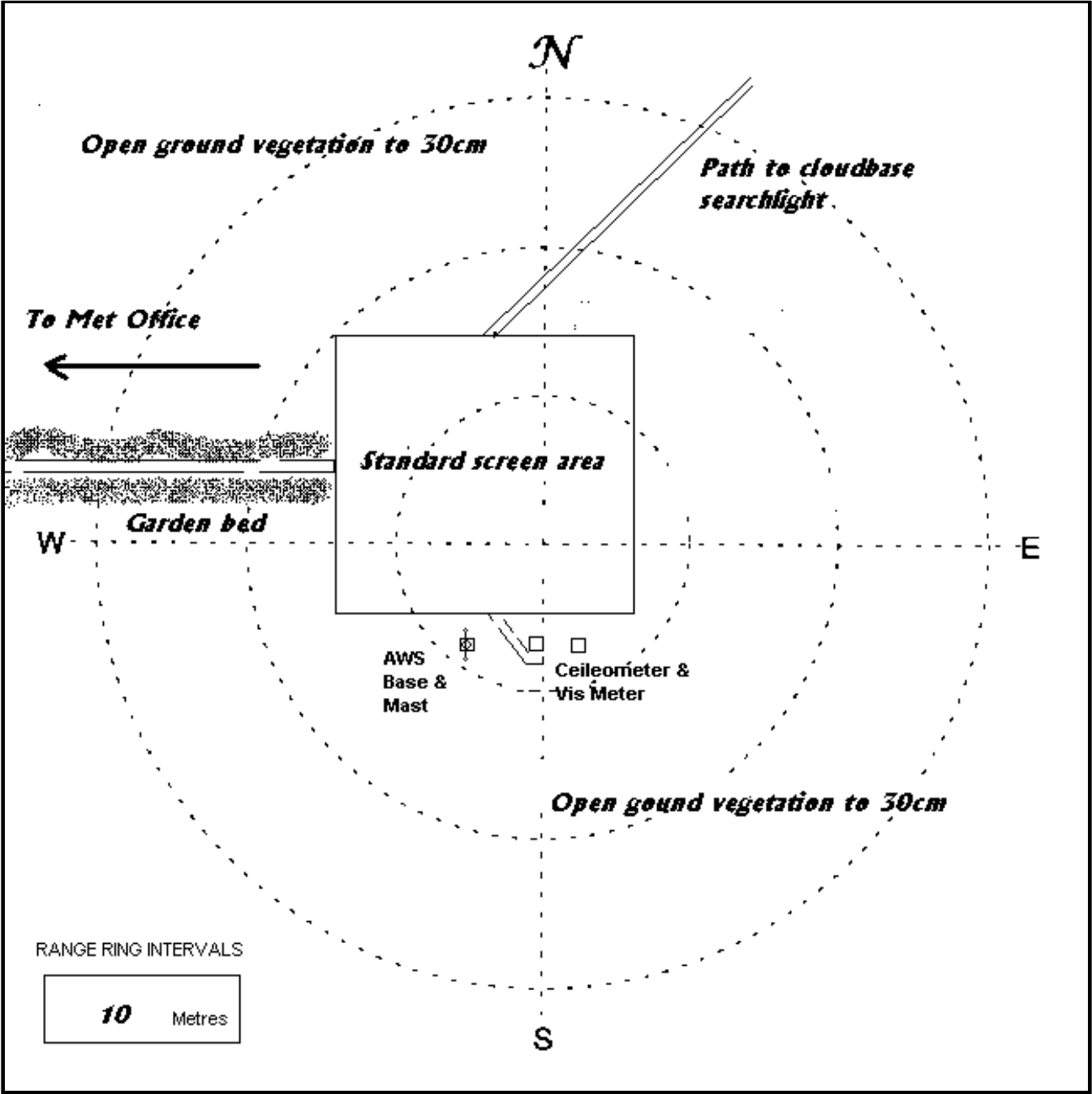
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Extended Climatological Station Metadata
All History

Station:	WOOMERA AERODROME		Location:	WOOMERA AERODROME		State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m
						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
10/10/2002



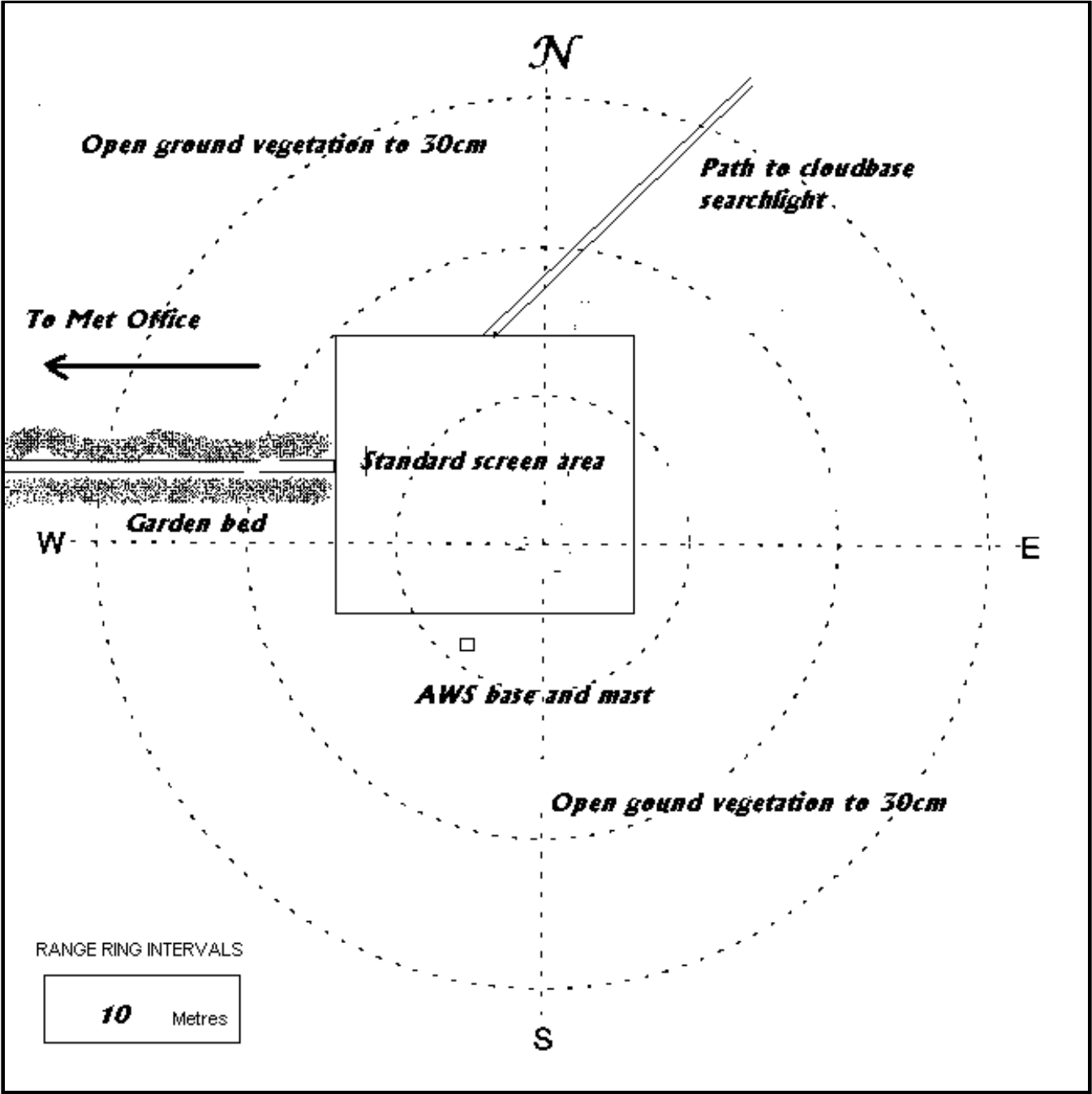
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Extended Climatological Station Metadata
All History

Station:	WOOMERA AERODROME		Location:	WOOMERA AERODROME		State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m
						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
27/06/2000

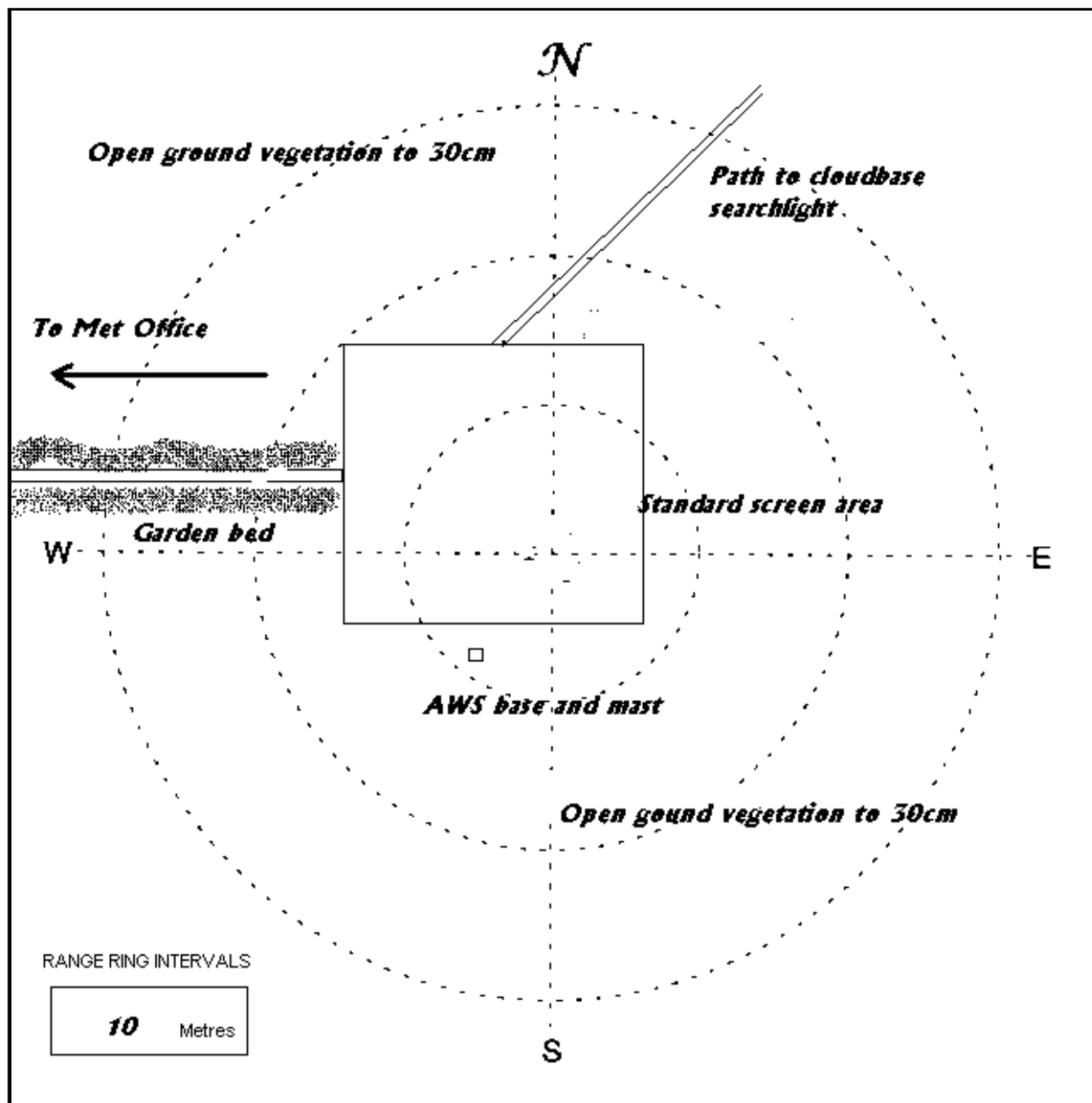


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All History

Station:	WOOMERA AERODROME			Location:	WOOMERA AERODROME			State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949	Current Status:	Still open
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m	Metadata compiled:	28 JUL 2025

30/06/1998



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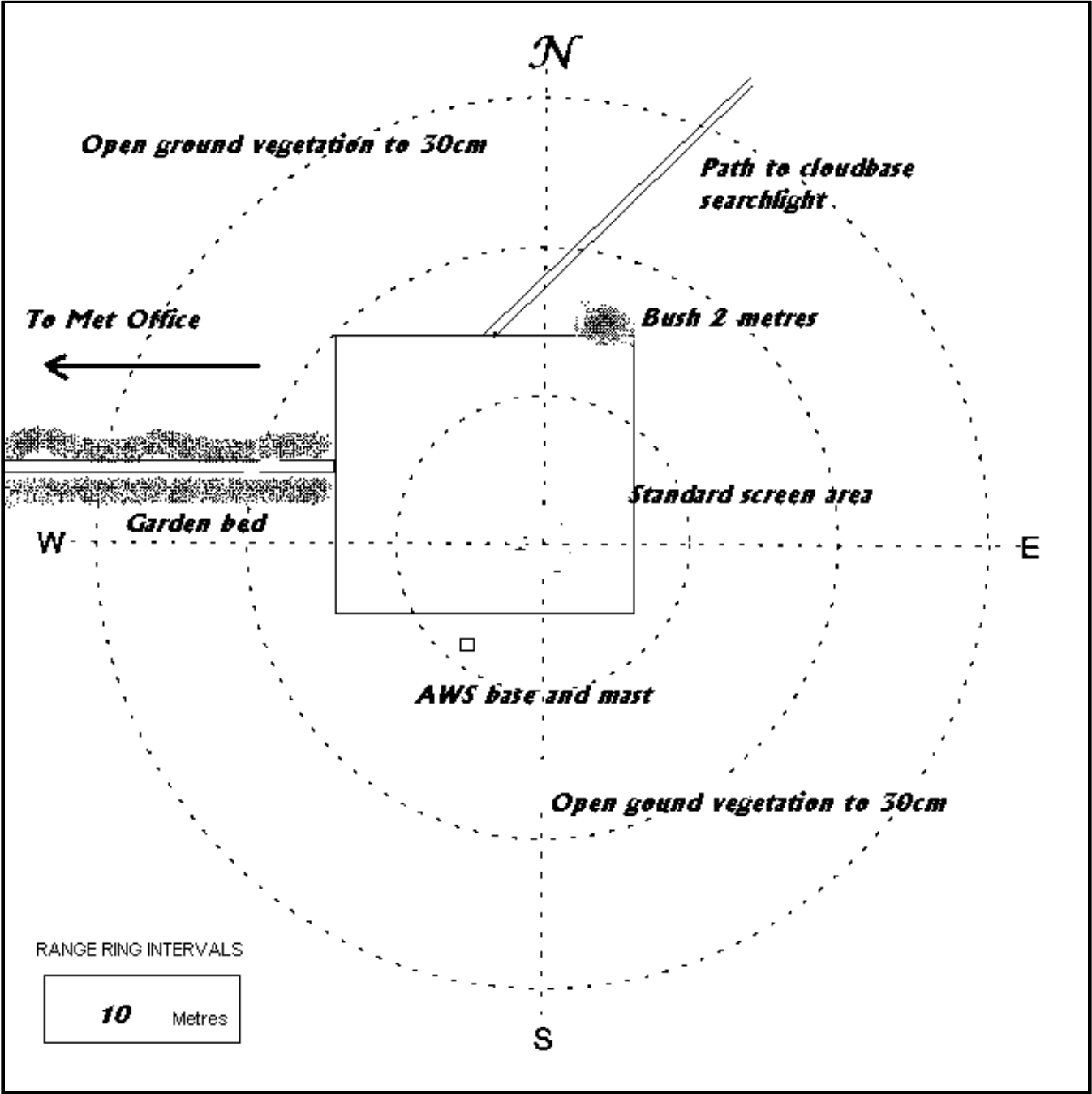
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Extended Climatological Station Metadata
All History

Station:	WOOMERA AERODROME		Location:	WOOMERA AERODROME		State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m
						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
29/06/1998



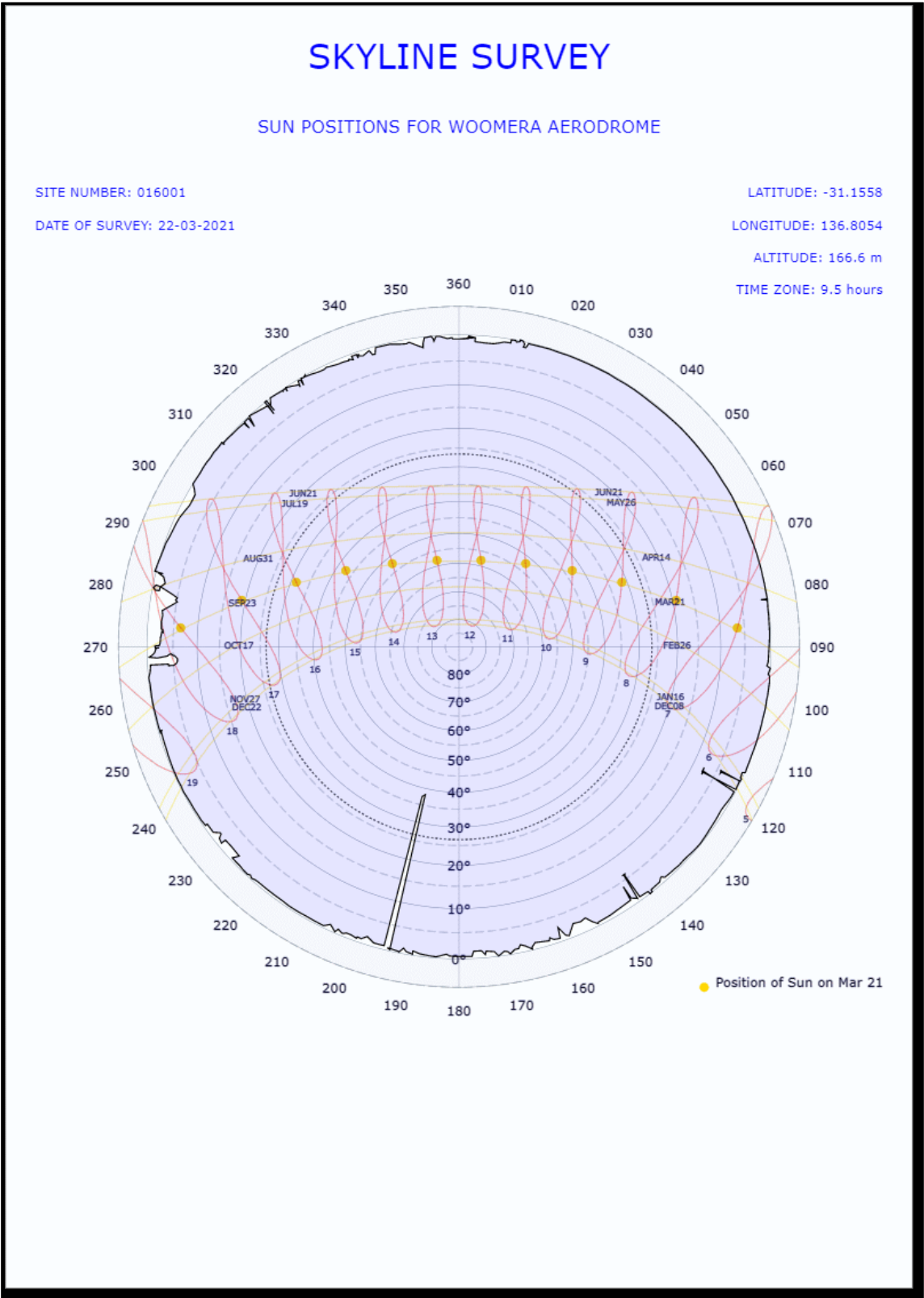
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Extended Climatological Station Metadata
All History

Station: WOOMERA AERODROME			Location: WOOMERA AERODROME			State: SA	
Bureau No.: 016001		WMO No.: 94659		Aviation ID: YPWR		Opened: 01 Jan 1949	
Latitude: -31.1558		Longitude: 136.8054		Elevation: 166.6 m		Barometer Elev: 168.5 m	
						Current Status: Still open	
						Metadata compiled: 28 JUL 2025	

Skyline Diagram
22/03/2021(most recent)



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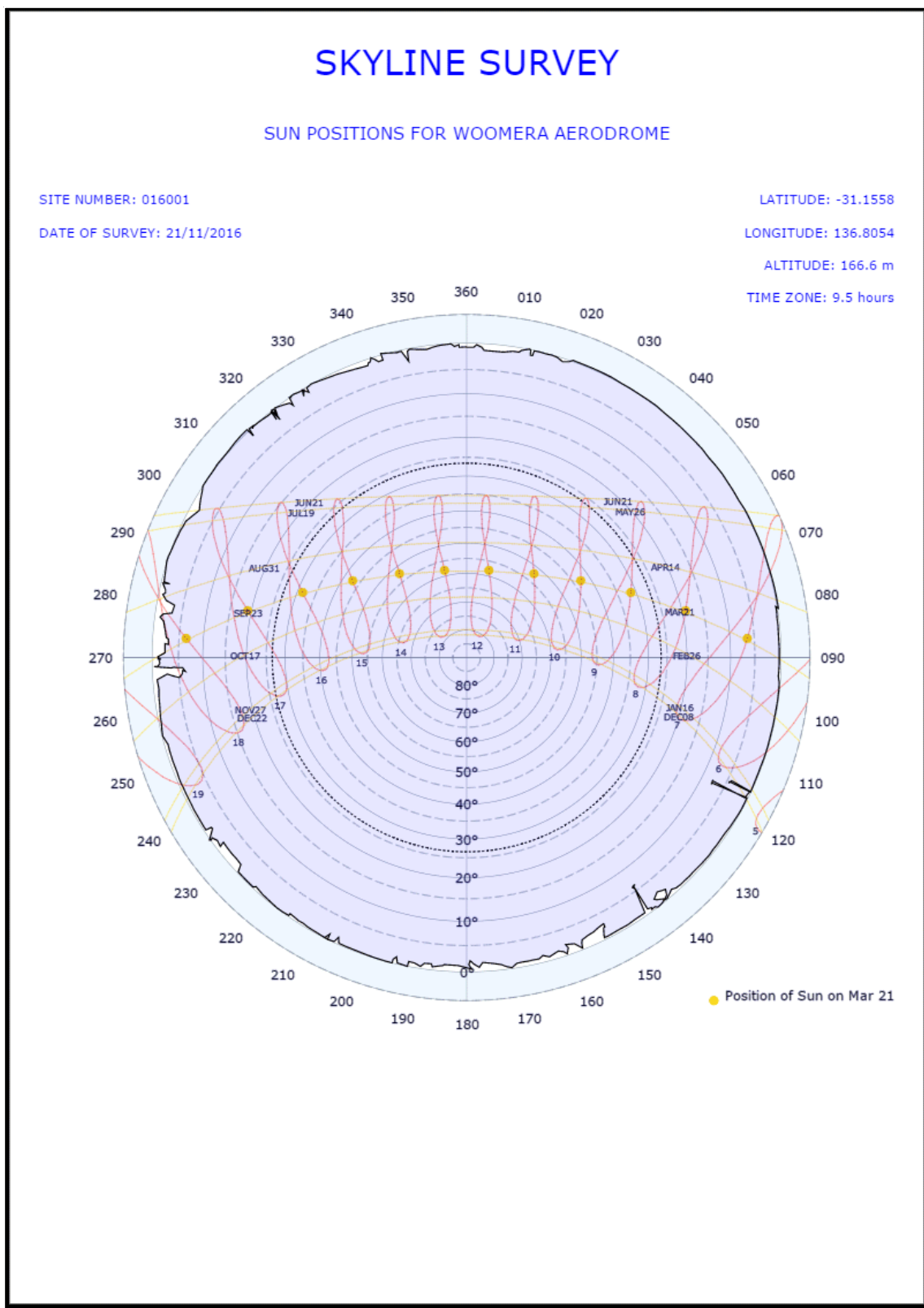
Extended Climatological Station Metadata

All History

Station:	WOOMERA AERODROME	Location:	WOOMERA AERODROME	State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m
				Barometer Elev:	168.5 m
				Current Status:	Still open
				Metadata compiled:	28 JUL 2025

Skyline Diagram

21/11/2016



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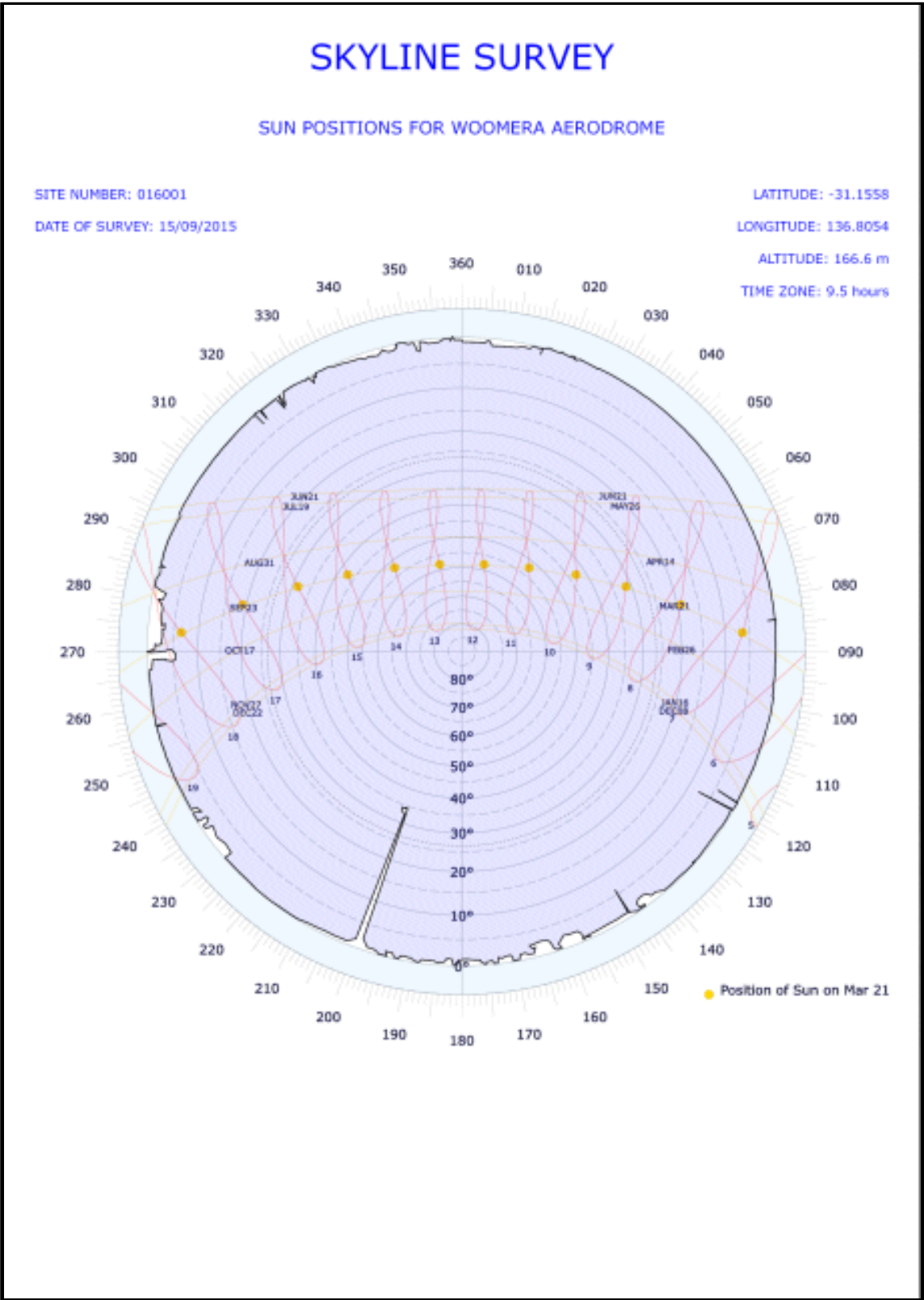
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Extended Climatological Station Metadata
All History

Station:	WOOMERA AERODROME	Location:	WOOMERA AERODROME	State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR
Latitude:	-31.1558	Longitude:	136.8054	Opened:	01 Jan 1949
		Elevation:	166.6 m	Barometer Elev:	168.5 m
				Current Status:	Still open
				Metadata compiled:	28 JUL 2025

Skyline Diagram
15/09/2015



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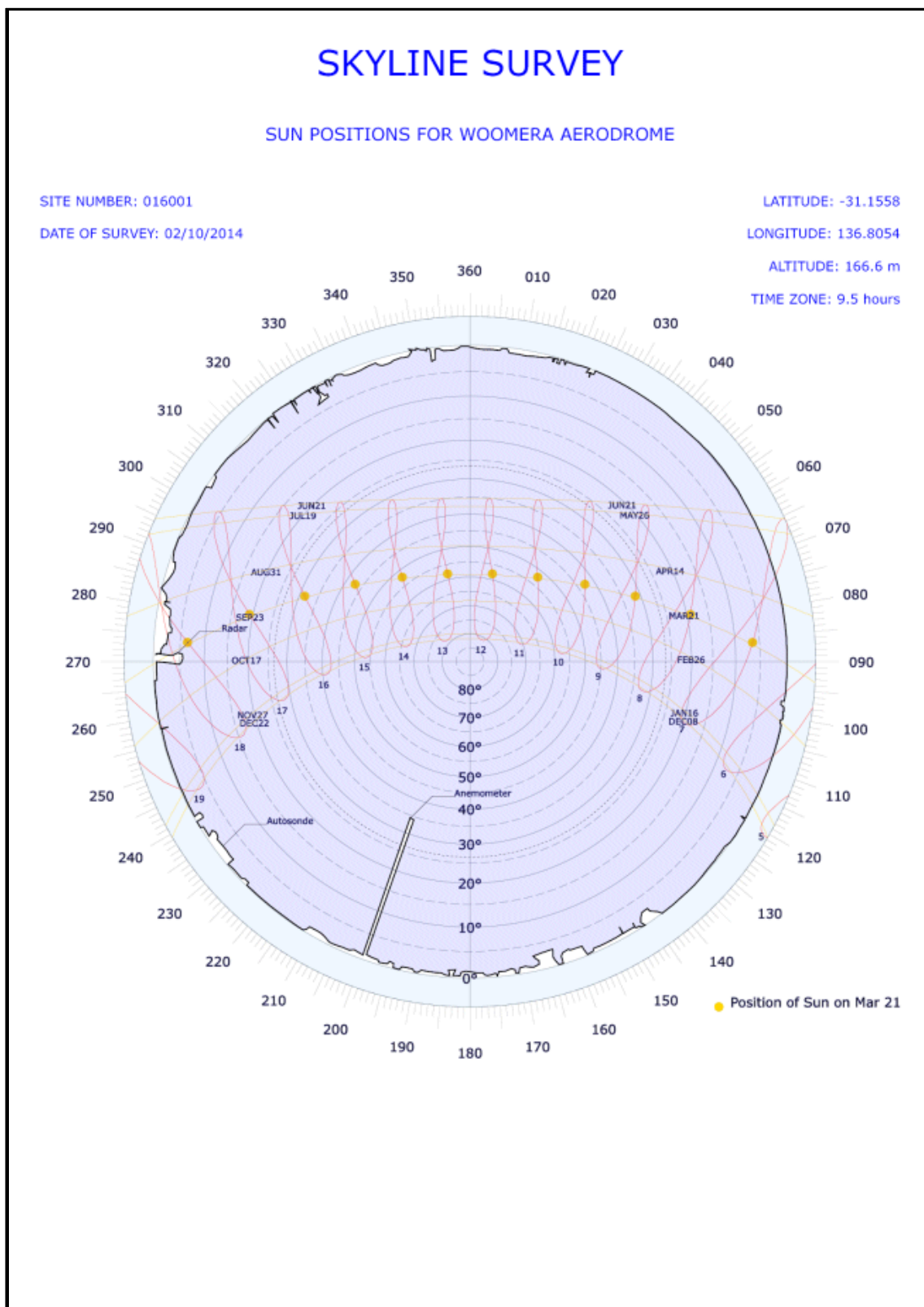
Extended Climatological Station Metadata

All History

Station:	WOOMERA AERODROME	Location:	WOOMERA AERODROME	State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m
				Barometer Elev:	168.5 m
				Current Status:	Still open
				Metadata compiled:	28 JUL 2025

Skyline Diagram

02/10/2014



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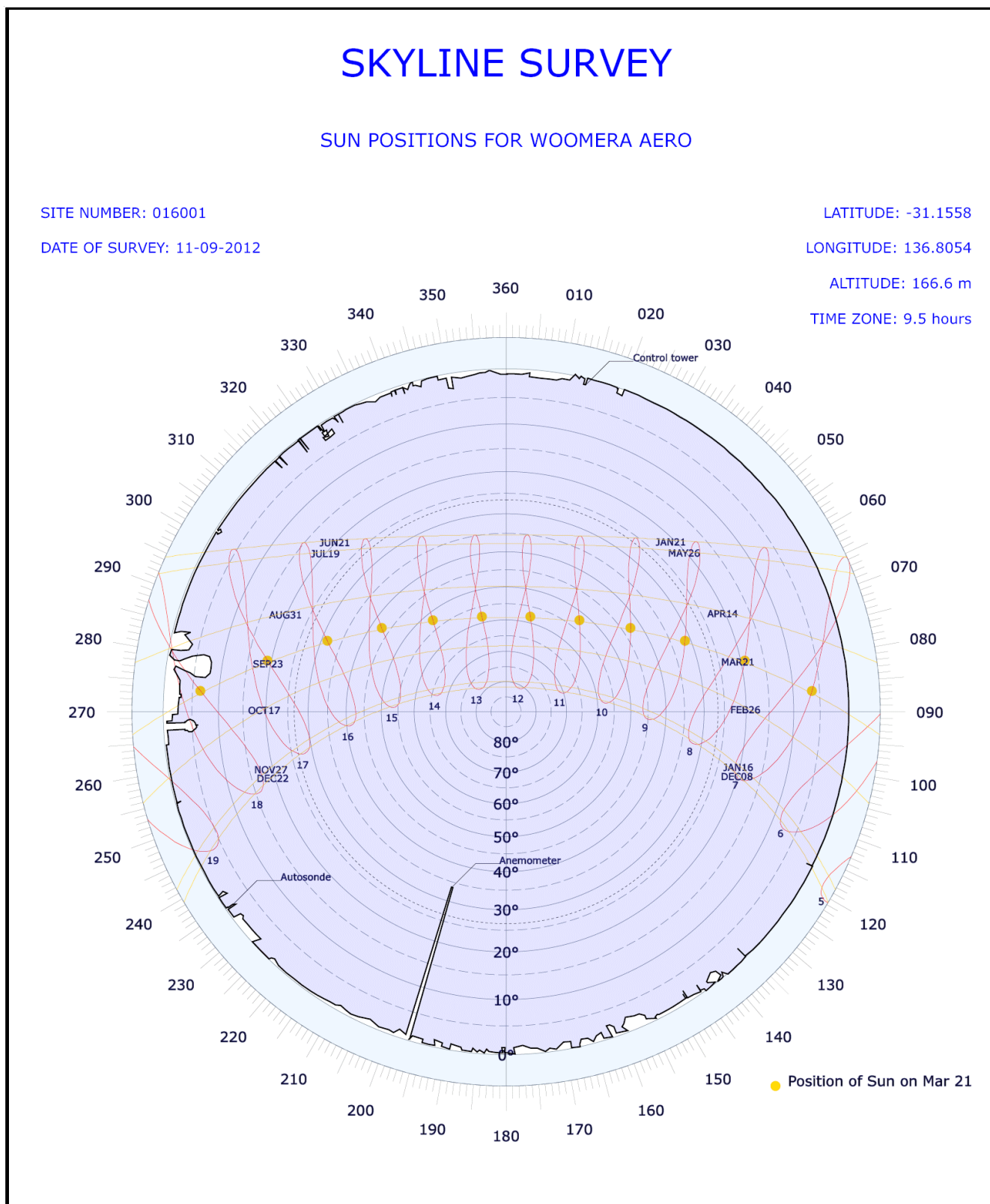
Extended Climatological Station Metadata

All History

Station:	WOOMERA AERODROME	Location:	WOOMERA AERODROME	State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR
Latitude:	-31.1558	Longitude:	136.8054	Opened:	01 Jan 1949
		Elevation:	166.6 m	Barometer Elev:	168.5 m
				Current Status:	Still open
				Metadata compiled:	28 JUL 2025

Skyline Diagram

11/09/2012



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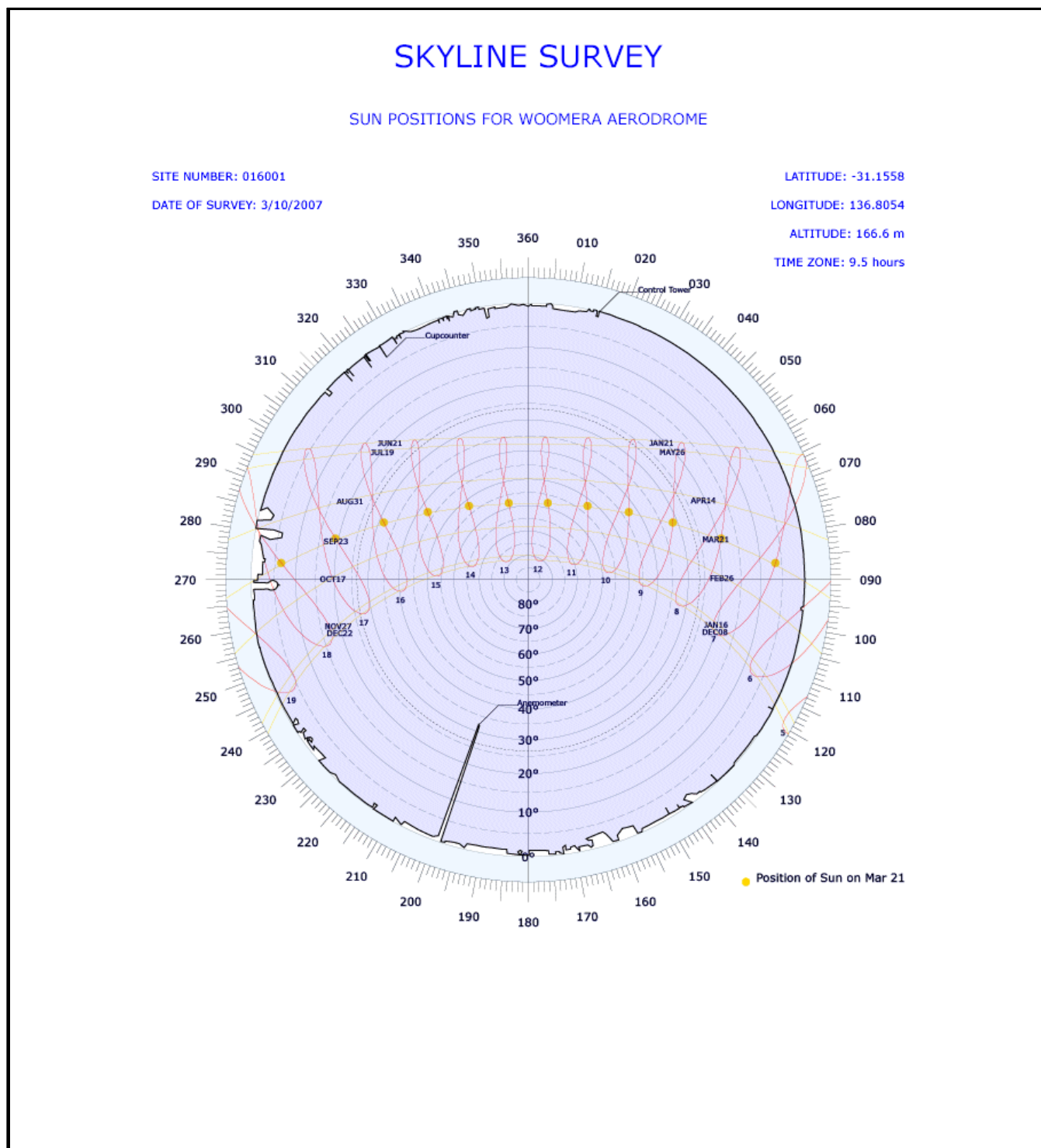
Extended Climatological Station Metadata

All History

Station:	WOOMERA AERODROME	Location:	WOOMERA AERODROME	State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR
Latitude:	-31.1558	Longitude:	136.8054	Opened:	01 Jan 1949
		Elevation:	166.6 m	Barometer Elev:	168.5 m
				Current Status:	Still open
				Metadata compiled:	28 JUL 2025

Skyline Diagram

03/10/2007



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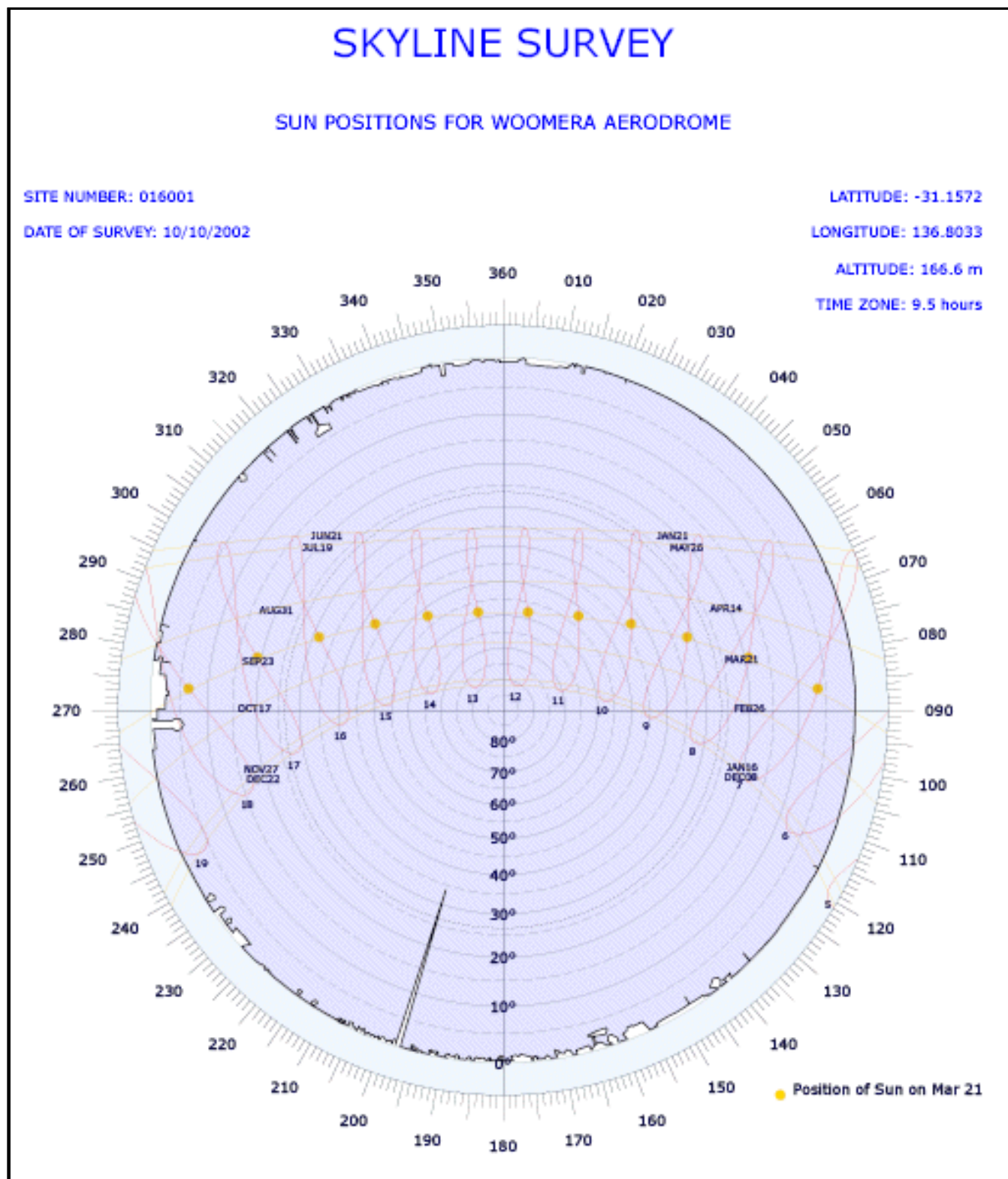
Extended Climatological Station Metadata

All History

Station:	WOOMERA AERODROME			Location:	WOOMERA AERODROME		State:	SA	
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949	Current Status:	Still open
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m	Metadata compiled:	28 JUL 2025

Skyline Diagram

10/10/2002



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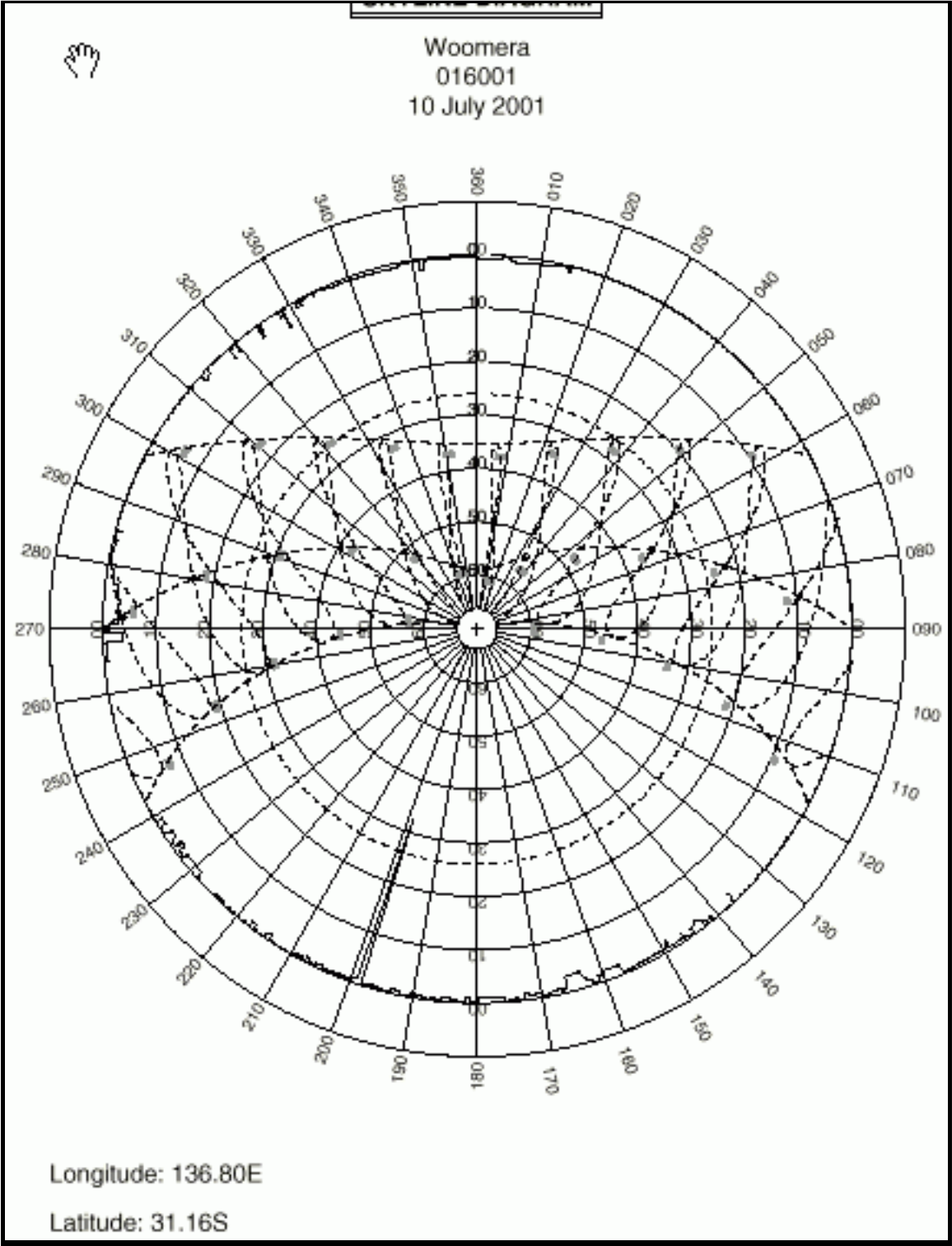
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Extended Climatological Station Metadata
All History

Station:	WOOMERA AERODROME		Location:	WOOMERA AERODROME		State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m
Metadata compiled:							28 JUL 2025

Skyline Diagram
10/07/2001



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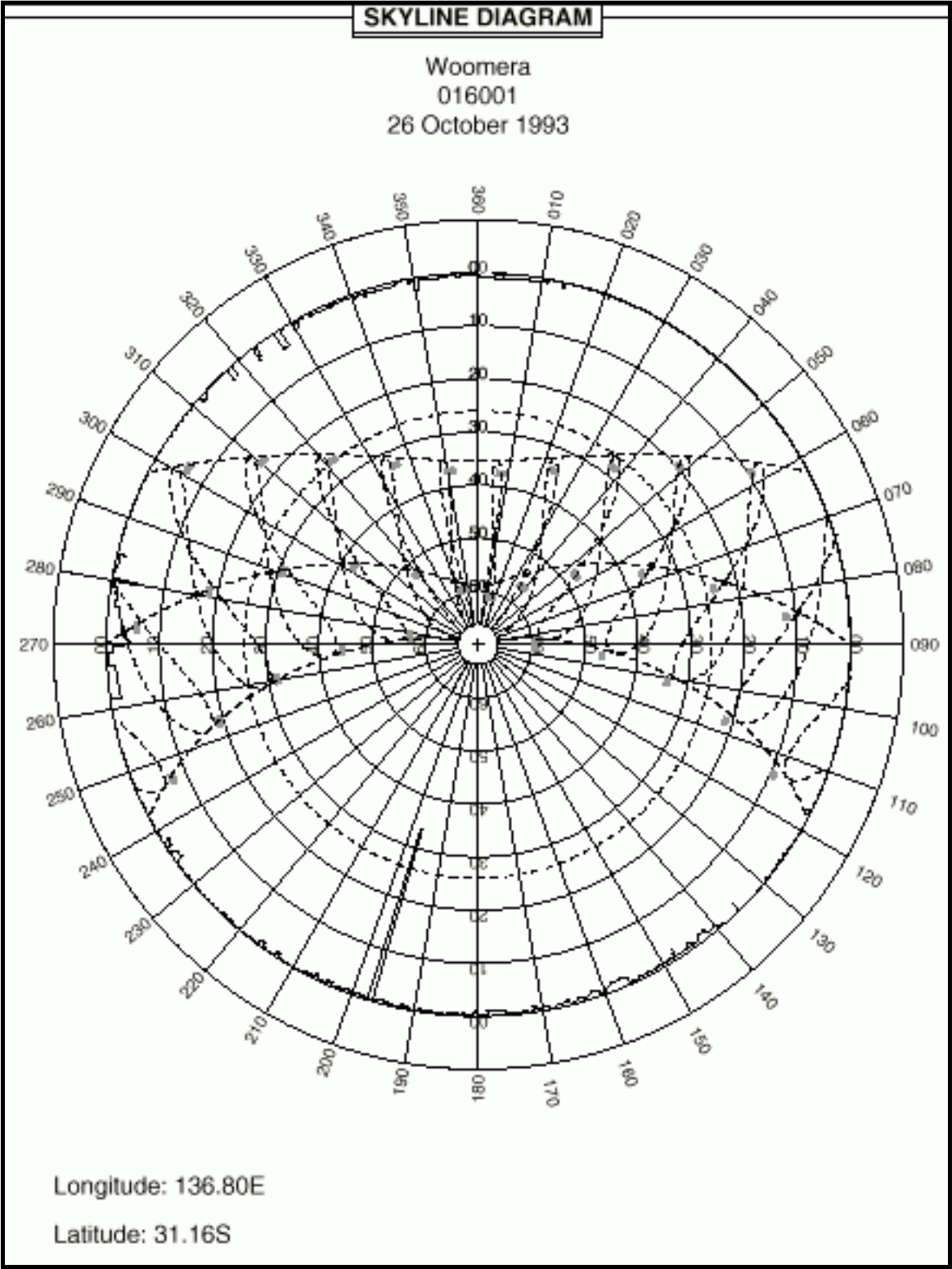
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Extended Climatological Station Metadata
All History

Station:	WOOMERA AERODROME		Location:	WOOMERA AERODROME		State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m
						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Skyline Diagram
29/10/1993



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Extended Climatological Station Metadata

All History

Station: WOOMERA AERODROME			Location: WOOMERA AERODROME			State: SA			
Bureau No.: 016001		WMO No.: 94659		Aviation ID: YPWR		Opened: 01 Jan 1949		Current Status: Still open	
Latitude: -31.1558		Longitude: 136.8054		Elevation: 166.6 m		Barometer Elev: 168.5 m		Metadata compiled: 28 JUL 2025	

Station Observation Program Summary (Surface Observations) from 01/01/1949 to 28/01/2000

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 28/01/2000 to 07/12/2000

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 07/12/2000 to 25/04/2002

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 25/04/2002 to 14/05/2003

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	-	-	-	-	-	-	-	-

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Extended Climatological Station Metadata

All History

Station:	WOOMERA AERODROME			Location:	WOOMERA AERODROME			State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949	Current Status:	Still open
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m	Metadata compiled:	28 JUL 2025

Station Observation Program Summary (Surface Observations) from 14/05/2003 to 14/11/2003

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

Station Observation Program Summary (Surface Observations) from 14/11/2003 to 01/10/2004

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

Station Observation Program Summary (Surface Observations) from 01/10/2004 to 28/01/2010

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

Station Observation Program Summary (Surface Observations) from 28/01/2010 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	-	-	-	-	-	-	-	-

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Extended Climatological Station Metadata
All History

Station: WOOMERA AERODROME			Location: WOOMERA AERODROME			State: SA			
Bureau No.: 016001		WMO No.: 94659		Aviation ID: YPWR		Opened: 01 Jan 1949		Current Status: Still open	
Latitude: -31.1558		Longitude: 136.8054		Elevation: 166.6 m		Barometer Elev: 168.5 m		Metadata compiled: 28 JUL 2025	

Station Observation Program Summary (Surface Observations) 28 JUL 2025 (most recent)

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

Upper Air Routine 01/03/1949 to 06/12/2000

Flight type	Time UTC	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Wind & Temp.	00:00	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 07/12/2000 to 19/09/2001

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 19/09/2001 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	-	-	-	-	-	-	-
Wind	12:00	Y	Y	Y	Y	Y	Y	Y
Wind	18:00	-	-	-	-	-	-	-

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Extended Climatological Station Metadata

All History

Station:	WOOMERA AERODROME		Location:	WOOMERA AERODROME		State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m
Current Status:							Still open
Metadata compiled:							28 JUL 2025

Upper Air Routine 05/01/2005 to 22/03/2010

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

Upper Air Routine 22/03/2010 to 01/07/2010

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

Upper Air Routine 01/07/2010 (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	-	-	-	-	-	-	-
Wind	12:00	-	-	-	-	-	-	-
Wind	18:00	-	-	-	-	-	-	-

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Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m
Current Status:							Still open
Metadata compiled:							28 JUL 2025

Station Equipment History

Equipment Install/Remove

Cloud Height

20/NOV/2000 INSTALL Ceilometer (Type Vaisala CT25K S/N - 07101) Surface Observations
10/APR/2018 REPLACE Ceilometer (Now Vaisala CL31 S/N - M1940586) Surface Observations
26/NOV/2002 REPLACE Ceilometer (Now Vaisala CT25K S/N - T13202) Surface Observations
12/AUG/2008 REPLACE Ceilometer (Now Vaisala CT25K S/N - W09401) Surface Observations
26/AUG/2004 REPLACE Ceilometer (Now Vaisala CT25K S/N - Y15201) Surface Observations
27/JUN/2000 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - 90 I 6) Surface Observations
11/FEB/2021 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - 90 I 6) Surface Observations

Humidity

10/NOV/2016 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 49513009) Surface Observations

Pressure Trend

30/JUN/1998 INSTALL Barograph (Type Weekly S/N - CBM044) Surface Observations
06/OCT/1949 INSTALL Barograph (Type Weekly S/N - Unknown) Surface Observations
13/JUL/2017 REMOVE Barograph (Type Weekly S/N - CBM044) Surface Observations
01/JUN/1999 REMOVE Barograph (Type Weekly S/N - Unknown) Surface Observations

Lightning

10/JUL/2008 INSTALL Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - B5050002) Surface Observations

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

14/MAY/1958 INSTALL Anemometer (Type Dines S/N - Unknown) Surface Observations
20/JUN/1991 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - NONE) Surface Observations
20/JUN/1991 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - NONE) Surface Observations
20/JUN/1991 INSTALL Anemometer (Type Wind Vane S/N - NONE) Surface Observations
20/JUN/1991 INSTALL Mast Anemometer (Type Pipe, UnGuyed S/N - NONE) Infrastructure
20/JUN/1991 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
10/SEP/1970 INSTALL Wind Run Anemometer (Type Munro S/N - CBM579) Surface Observations
20/JUN/1991 REMOVE Anemometer (Type Dines S/N - Unknown) Surface Observations
01/AUG/2017 REMOVE Anemometer (Type Wind Vane S/N - NONE) Surface Observations
01/AUG/2017 REMOVE Wind Run Anemometer (Type Munro S/N - CBM579) Surface Observations
29/JUN/2011 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 72873) Surface Observations
08/APR/2016 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 76388) Surface Observations
17/SEP/2015 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 88720) Surface Observations
01/SEP/2011 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 94205) Surface Observations
19/APR/1994 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - Unknown) Surface Observations
29/JUN/2011 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 80301) Surface Observations
19/APR/1994 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
20/NOV/2000 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - 15148) Surface Observations
20/NOV/2000 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - V16334) Surface Observations

Wet Bulb Temperature

20/JUN/1991 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations
10/NOV/2016 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 0529) Surface Observations
24/JUN/2002 REPLACE Temperature Probe - Wet Bulb (Now Rosemount S/N - 0529) Surface Observations

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Extended Climatological Station Metadata

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Current Status:							Still open
Metadata compiled:							28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

17/FEB/2014 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 12562) Surface Observations
01/JAN/1949 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - CBM5374) Surface Observations
17/FEB/2014 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 12562) Surface Observations
02/MAY/2016 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 12562) Surface Observations
02/AUG/2000 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 12562) Surface Observations
24/SEP/2013 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 12562) Surface Observations
25/JUN/2002 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 12577) Surface Observations
07/OCT/2010 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 12577) Surface Observations
18/OCT/2012 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 12577) Surface Observations
17/JAN/2002 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - CBM5374) Surface Observations
23/APR/2008 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - CBM5374) Surface Observations
11/SEP/2012 REPLACE Thermometer, Mercury, Wet Bulb (Now WIKA S/N - 20351) Surface Observations

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

01/APR/1949 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - M 2448) Surface Observations
16/AUG/2016 REMOVE Thermometer, Mercury, Max (Type WIKA S/N - 30336) Surface Observations
27/FEB/2001 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 3464) Surface Observations
10/MAR/2005 REPLACE Thermometer, Mercury, Max (Now WIKA S/N - 23856) Surface Observations
24/SEP/2013 REPLACE Thermometer, Mercury, Max (Now WIKA S/N - 30336) Surface Observations
22/MAR/2010 REPLACE Thermometer, Mercury, Max (Now WIKA S/N - 31352) Surface Observations

Soil Temperature 10cm

30/JUN/1998 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - M2285) Surface Observations
09/NOV/2016 REMOVE Thermometer, Soil, 10cm (Type Dobros S/N - 0415468) Surface Observations
29/JUL/2010 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - 0415468) Surface Observations

Soil Temperature 20cm

30/JUN/1998 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - 0981) Surface Observations
09/NOV/2016 REMOVE Thermometer, Soil, 20cm (Type Dobros S/N - 0415484) Surface Observations
25/JUN/2001 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 0136 931) Surface Observations
29/JUL/2010 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 0415484) Surface Observations

Soil Temperature 50cm

30/JUN/1998 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - M2244) Surface Observations
03/NOV/2016 REMOVE Thermometer, Soil, 50cm (Type Dobros S/N - M0977) Surface Observations
18/OCT/2006 REPLACE Thermometer, Soil, 50cm (Now Dobros S/N - M0977) Surface Observations

Snow Height (No Electronic History)

Soil Temperature 100cm

30/JUN/1998 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - M2245) Surface Observations
09/NOV/2016 REMOVE Thermometer, Soil, 100cm (Type Amarol S/N - 0269677) Surface Observations
18/OCT/2006 REPLACE Thermometer, Soil, 100cm (Now Amarol S/N - 0269677) Surface Observations

Sunshine Hours

01/JAN/1951 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - CMO86) Surface Observations
02/MAY/2016 REMOVE Sunshine Recorder (Type Campbell-Stokes S/N - CMO86) Surface Observations

Wind Run

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Extended Climatological Station Metadata

All History

Station:	WOOMERA AERODROME		Location:	WOOMERA AERODROME		State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m
Current Status:							Still open
Metadata compiled:							28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

10/SEP/1970 INSTALL Wind Run Anemometer (Type Munro S/N - CBM579) Surface Observations
01/AUG/2017 REMOVE Wind Run Anemometer (Type Munro S/N - CBM579) Surface Observations

Minimum Temperature

01/APR/1949 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - M 2680) Surface Observations
01/AUG/2017 REMOVE Thermometer, Alcohol, Min (Type WIKA S/N - 19624) Surface Observations
27/JUN/2000 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 2669) Surface Observations
24/SEP/2013 REPLACE Thermometer, Alcohol, Min (Now WIKA S/N - 19624) Surface Observations

Terrestrial Minimum Temperature

01/MAY/1949 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - CBM5308) Surface Observations
23/SEP/2013 REMOVE Thermometer, Terrestrial, Min (Type WIKA S/N - 31222) Surface Observations
18/DEC/2000 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 13294) Surface Observations
05/JUL/2001 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 13300) Surface Observations
03/JUN/2005 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19608) Surface Observations
07/MAR/2009 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 24253) Surface Observations
15/MAR/2006 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 24286) Surface Observations
27/FEB/2001 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 3437) Surface Observations
27/JUN/2000 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M2680) Surface Observations
16/FEB/2010 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 31222) Surface Observations

Visibility

20/NOV/2000 INSTALL Visibility Meter (Type Vaisala FD12 S/N - U46110) Surface Observations
11/APR/2018 REPLACE Visibility Meter (Now Vaisala FS11 S/N - N3930225) Surface Observations

Soil Temperature 5cm

14/SEP/2004 INSTALL Thermometer, Soil, 5cm (Type Dobros S/N - M0907) Surface Observations
19/DEC/2016 REMOVE Thermometer, Soil, 5cm (Type Dobros S/N - 0709789) Surface Observations
29/JUL/2010 REPLACE Thermometer, Soil, 5cm (Now Dobros S/N - 0709789) Surface Observations

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Oxygen Content (No Electronic History)

RF Reflectivity

01/JUL/1965 INSTALL Radar (Type WF2 S/N - Unknown) Upper Air
01/APR/1967 INSTALL Radar (Type WF44 S/N - P0006) Upper Air
01/APR/1967 INSTALL Radar (Type WF44 S/N - P0006) WeatherWatch
25/SEP/2001 INSTALL Radar Interface (Type BOM S/N - Unknown) WeatherWatch
23/OCT/2014 INSTALL Radar Safety System (RSS) (Type RSS (2502C/8502S) S/N - 6003-03) WeatherWatch
01/APR/1967 INSTALL Radar Tower (Type Lattice WF44 - 18 ft S/N - NONE) Infrastructure
01/APR/1967 REMOVE Radar (Type WF2 S/N - Unknown) Upper Air
25/SEP/2001 REPLACE Radar (Now WF100-6C S/N - 007) Upper Air
25/SEP/2001 REPLACE Radar (Now WF100-6C S/N - 007) WeatherWatch
25/SEP/2001 REPLACE Radar Tower (Now Cylindrical WF100 - 7.75 m S/N - Unknown) Infrastructure
25/SEP/2001 UNSHARE Radar (Type WF100-6C S/N - 007) Upper Air

Total Column Ozone Amount (No Electronic History)

Pressure

01/JAN/1949 INSTALL Barometer (Type Kew pattern mercury S/N - 1616) Surface Observations

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						Barometer Elev:	168.5 m
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Station Equipment History (continued)

Equipment Install/Remove(Continued)

20/NOV/2000 INSTALL Barometer (Type Vaisala DPA21 S/N - Unknown) Surface Observations
20/JUN/1991 INSTALL Barometer (Type Vaisala PA11A S/N - 458191) Surface Observations
02/APR/1992 REMOVE Barometer (Type Kew pattern mercury S/N - 1616) Surface Observations
29/SEP/2011 REMOVE Barometer (Type Vaisala DPA21 S/N - Unknown) Surface Observations
24/SEP/2004 REPLACE Barometer (Now Vaisala PTB220B S/N - V0440015) Surface Observations
24/SEP/2013 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - J2470018) Surface Observations
18/DEC/2018 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - K2210010) Surface Observations

Evaporation

01/JAN/1967 INSTALL Evaporation Pan (Type Class A S/N - NONE) Surface Observations
07/JUL/2017 INSTALL Evaporation Pan (Type SS Class A Automatic S/N - NONE) Surface Observations
01/AUG/2017 REMOVE Evaporation Pan (Type Class A S/N - NONE) Surface Observations

Rainfall

01/JAN/1955 INSTALL Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
30/JUN/1998 REMOVE Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
01/JAN/1949 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - 75518) Surface Observations
07/JUL/2017 INSTALL Raingauge (Type HS-TB3/0.1/P S/N - Unknown) Surface Observations
15/MAR/2007 INSTALL Raingauge (Type Not Listed S/N - Unknown) External Clients
20/JUN/1991 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - 315490) Surface Observations
01/AUG/2017 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
30/JUN/1998 REPLACE Raingauge (Now 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
11/SEP/1996 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-160) Rainfall Intensity
11/SEP/1996 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-160) Surface Observations
10/OCT/2002 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 82412) Rainfall Intensity
10/OCT/2002 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 82412) Surface Observations
12/OCT/1998 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 75518) Rainfall Intensity
12/OCT/1998 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 75518) Surface Observations
18/OCT/2005 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 78071) Rainfall Intensity
18/OCT/2005 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 78071) Surface Observations
11/SEP/1996 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96-160) Rainfall Intensity
11/SEP/1996 SHARE Raingauge (Type Rimco 7499 TBRG S/N - 315490) Rainfall Intensity
11/SEP/1996 SHARE Raingauge (Type Rimco 7499 TBRG S/N - 82412) Rainfall Intensity
11/SEP/1996 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 75518) Rainfall Intensity
12/APR/2018 UNSHARE Raingauge (Type Rimco 8020 TBRG S/N - 78071) Rainfall Intensity

River Height (No Electronic History)

Solar Radiation (No Electronic History)

Solar Radiation (Direct) (No Electronic History)

Turbidity (No Electronic History)

Sea Water Level (No Electronic History)

Sea Water Temperature

07/JUL/2017 INSTALL Temperature Probe - Water (Type TEMP CONTROLS TCBMP02A S/N - Unknown) Surface Observations

Wind Speed

14/MAY/1958 INSTALL Anemometer (Type Dines S/N - Unknown) Surface Observations
20/JUN/1991 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - NONE) Surface Observations

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

20/JUN/1991 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - NONE) Surface Observations
20/JUN/1991 INSTALL Anemometer (Type Wind Vane S/N - NONE) Surface Observations
20/JUN/1991 INSTALL Mast Anemometer (Type Pipe, UnGuyed S/N - NONE) Infrastructure
20/JUN/1991 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
10/SEP/1970 INSTALL Wind Run Anemometer (Type Munro S/N - CBM579) Surface Observations
20/JUN/1991 REMOVE Anemometer (Type Dines S/N - Unknown) Surface Observations
01/AUG/2017 REMOVE Anemometer (Type Wind Vane S/N - NONE) Surface Observations
01/AUG/2017 REMOVE Wind Run Anemometer (Type Munro S/N - CBM579) Surface Observations
29/JUN/2011 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 72873) Surface Observations
08/APR/2016 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 76388) Surface Observations
17/SEP/2015 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 88720) Surface Observations
01/SEP/2011 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 94205) Surface Observations
19/APR/1994 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - Unknown) Surface Observations
29/JUN/2011 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 80301) Surface Observations
19/APR/1994 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
20/NOV/2000 REPLACE Anemometer (Now Vaisala Cups WAA151 S/N - 15148) Surface Observations
20/NOV/2000 REPLACE Anemometer (Now Vaisala Vane WAV151 S/N - V16334) Surface Observations

Air Temperature

10/NOV/2016 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 49513009) Surface Observations
20/JUN/1991 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - NONE) Surface Observations
24/JUN/2002 REPLACE Temperature Probe - Dry Bulb (Now Rosemount ST2401 S/N - 0619) Surface Observations
28/JUN/2011 REPLACE Temperature Probe - Dry Bulb (Now Temp Control TCBMP01 S/N - 10114) Surface Observations
30/JUN/1998 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - CBM5374) Surface Observations
03/NOV/2016 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - CBM5533) Surface Observations
27/JUN/2000 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - CBM5533) 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
31/JAN/2001 - 27/OCT/2020	Cloud Height	0
10/NOV/2016 - 11/AUG/2021	Humidity	0
08/SEP/1987 - 15/SEP/2015	Pressure Trend	0
06/MAR/2012 - 27/JUL/2012	Lightning	2
28/APR/1987 - 11/AUG/2021	Wind Direction	4
28/APR/1987 - 10/NOV/2016	Wet Bulb Temperature	3
28/APR/1987 - 02/OCT/2014	Maximum Temperature	0
27/JUN/2000 - 02/OCT/2014	Soil Temperature 10cm	0
27/JUN/2000 - 02/OCT/2014	Soil Temperature 20cm	0
27/JUN/2000 - 02/OCT/2014	Soil Temperature 50cm	1

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Extended Climatological Station Metadata

All History

Station:	WOOMERA AERODROME		Location:	WOOMERA AERODROME		State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m
Current Status:							Still open
Metadata compiled:							28 JUL 2025

Station Equipment History (continued)

Available Date Range	Element	Fail Field Performance Check
27/JUN/2000 - 02/OCT/2014	Soil Temperature 100cm	0
28/APR/1987 - 21/NOV/2016	Wind Run	0
28/APR/1987 - 02/OCT/2014	Minimum Temperature	0
28/APR/1987 - 11/SEP/2012	Terrestrial Minimum Temperature	0
31/JAN/2001 - 11/AUG/2021	Visibility	10
14/SEP/2004 - 02/OCT/2014	Soil Temperature 5cm	1
14/OCT/1999 - 16/JUN/2021	RF Reflectivity	0
28/APR/1987 - 11/AUG/2021	Pressure	3
28/APR/1987 - 19/MAR/2021	Evaporation	1
28/APR/1987 - 11/AUG/2021	Rainfall	3
28/APR/1987 - 11/AUG/2021	Wind Speed	4
19/APR/1994 - 11/AUG/2021	Air Temperature	0

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)
20/NOV/2000 CLASSIFICATION Autosonde (RSA)
20/JUN/1991 CLASSIFICATION Building (FBL)
26/JUN/2002 CLASSIFICATION CLIMAT Stations (CLC)
26/JUN/2002 CLASSIFICATION CLIMAT TEMP Stations (CLT)
09/MAY/2006 CLASSIFICATION Category B (TAF B)
10/JAN/2011 CLASSIFICATION Critical (ASOSCRIT)
14/FEB/1997 CLASSIFICATION GCOS Upper Air Network (GUAN)
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 - Adelaide (OOH-A)
01/JUL/1998 CLASSIFICATION Rawinsonde Stations (RS) ENDED 19-11-2000
01/SEP/1992 CLASSIFICATION Reference Climate Stations (RCS) ENDED 30-06-2011
14/FEB/1997 CLASSIFICATION Regional Basic Synoptic Network (RBSN)
04/MAY/2010 OBJECT Document/016001100504Coop_Contract_No2
18/AUG/2010 OBJECT Document/016001100818Safety Pager Setup
30/SEP/2010 OBJECT Document/016001100930Letter
11/FEB/2011 OBJECT Document/016001110211CoopContract
07/AUG/2012 OBJECT Document/016001120807Coop_Contract_No3
28/MAY/2013 OBJECT Document/016001130528CoopContract_AT
04/AUG/2017 OBJECT Document/01600120170804_DC
17/JAN/2018 OBJECT Document/0160012018117 Electrical COC
06/OCT/2016 OBJECT Document/016001_Coop_Contract_06102016_JP

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Extended Climatological Station Metadata
All History

Station:	WOOMERA AERODROME		Location:	WOOMERA AERODROME		State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m
Current Status:							Still open
Metadata compiled:							28 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

17/DEC/2015 OBJECT Document/016001_Coop_Contract_17122015_JP
26/FEB/2015 OBJECT Document/016001_Coop_Contract_26022015
07/DEC/1994 OBJECT Document/16001 - Bar co-efficients
18/DEC/2018 OBJECT Document/20181218 Duties Checklist - Woomera
25/MAY/2020 OBJECT Document/ACOM 6 monthly Maintenance
01/OCT/2020 OBJECT Document/ACOM YPWR 29-10-2020
09/AUG/2017 OBJECT Document/ANSTO instructions
04/JUN/2015 OBJECT Document/ASBESTOS REGISTER
01/MAR/2016 OBJECT Document/ASOS_Station_Configuration_Form_YPWR_initial
12/SEP/2017 OBJECT Document/ASOS_Station_Configuration_Form_YPWR_update
19/FEB/2019 OBJECT Document/ATSO Support
11/OCT/2018 OBJECT Document/ATSO_SUPPORT
07/OCT/2018 OBJECT Document/ATSO_SUPPORT
07/JAN/2019 OBJECT Document/ATSO_SUPPORT
19/SEP/2018 OBJECT Document/ATSO_SUPPORT
31/JUL/2019 OBJECT Document/ATSO_SUPPORT
13/NOV/2019 OBJECT Document/ATSO_SUPPORT
17/NOV/2020 OBJECT Document/ATSO_SUPPORT
01/MAR/2021 OBJECT Document/ATSO_SUPPORT
31/JAN/2019 OBJECT Document/ATSO_SUPPORT
18/SEP/2019 OBJECT Document/ATSO_SUPPORT
28/FEB/2018 OBJECT Document/ATSO_SUPPORT
03/MAY/2018 OBJECT Document/ATSO_SUPPORT
14/JUN/2018 OBJECT Document/ATSO_SUPPORT
16/AUG/2018 OBJECT Document/ATSO_SUPPORT
02/NOV/2018 OBJECT Document/ATSO_SUPPORT
28/NOV/2018 OBJECT Document/ATSO_SUPPORT
19/JUN/2019 OBJECT Document/ATSO_SUPPORT
01/MAY/2020 OBJECT Document/ATSO_SUPPORT
30/JUN/2020 OBJECT Document/ATSO_SUPPORT
26/OCT/2020 OBJECT Document/ATSO_SUPPORT
22/DEC/2020 OBJECT Document/ATSO_SUPPORT
20/JAN/2018 OBJECT Document/ATSO_SUPPORT
07/FEB/2018 OBJECT Document/ATSO_SUPPORT
22/MAR/2018 OBJECT Document/ATSO_SUPPORT
13/MAR/2019 OBJECT Document/ATSO_SUPPORT
17/APR/2019 OBJECT Document/ATSO_SUPPORT
09/MAY/2019 OBJECT Document/ATSO_SUPPORT
11/JUL/2019 OBJECT Document/ATSO_SUPPORT
20/JAN/2021 OBJECT Document/ATSO_SUPPORT
11/JUN/2020 OBJECT Document/ATSO_SUPPORT
12/APR/2018 OBJECT Document/ATSO_SUPPORT
11/JUL/2018 OBJECT Document/ATSO_SUPPORT

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Extended Climatological Station Metadata
All History

Station:	WOOMERA AERODROME			Location:	WOOMERA AERODROME			State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949	Current Status:	Still open
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m	Metadata compiled:	28 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

26/JUL/2018 OBJECT Document/ATSO_SUPPORT
07/DEC/2018 OBJECT Document/ATSO_SUPPORT
04/APR/2019 OBJECT Document/ATSO_SUPPORT
18/DEC/2019 OBJECT Document/ATSO_SUPPORT
06/FEB/2020 OBJECT Document/ATSO_SUPPORT
09/APR/2020 OBJECT Document/ATSO_SUPPORT
20/MAY/2020 OBJECT Document/ATSO_SUPPORT
31/JUL/2020 OBJECT Document/ATSO_SUPPORT
13/AUG/2020 OBJECT Document/ATSO_SUPPORT
09/DEC/2020 OBJECT Document/ATSO_SUPPORT
14/JAN/2021 OBJECT Document/ATSO_SUPPORT
11/FEB/2021 OBJECT Document/ATSO_SUPPORT
19/MAR/2021 OBJECT Document/ATSO_SUPPORT
09/APR/2021 OBJECT Document/ATSO_SUPPORT
28/APR/2021 OBJECT Document/ATSO_SUPPORT
19/MAY/2021 OBJECT Document/ATSO_SUPPORT
22/JUL/2021 OBJECT Document/ATSO_SUPPORT
08/JAN/2020 OBJECT Document/ATSO_SUPPORT
25/FEB/2020 OBJECT Document/ATSO_SUPPORT
17/MAR/2020 OBJECT Document/ATSO_SUPPORT
02/SEP/2020 OBJECT Document/ATSO_SUPPORT
04/JUL/2018 OBJECT Document/ATSO_SUPPORT
30/AUG/2021 OBJECT Document/ATSO_SUPPORT
11/OCT/2019 OBJECT Document/ATSO_SUPPORT 20191011
09/DEC/2019 OBJECT Document/ATSO_SUPPORT Dec 2019
29/MAY/2019 OBJECT Document/ATSO_SUPPORT [20190530]
29/AUG/2019 OBJECT Document/ATSO_SUPPORT[20190929]
20/AUG/2018 OBJECT Document/AUTOSONDE MAINTENANCE CHECKSHEET
30/AUG/2018 OBJECT Document/AUTOSONDE MAINTENANCE CHECKSHEET
07/FEB/2018 OBJECT Document/AUTOSONDE MAINTENANCE CHECKSHEET
12/APR/2018 OBJECT Document/AUTOSONDE MAINTENANCE CHECKSHEET
04/APR/2019 OBJECT Document/AWS SITE AUDIT
23/MAY/2008 OBJECT Document/Autosonde Upgrade May 2008
18/JAN/2018 OBJECT Document/Autosonde safety relief valve certificate 2018
22/AUG/2002 OBJECT Document/BAROMETER COEFFICIENTS
21/NOV/2016 OBJECT Document/CEILOMETER STATUS
27/OCT/2020 OBJECT Document/CEILOMETER STATUS
14/JUL/2011 OBJECT Document/CEILOMETER STATUS
06/MAR/2012 OBJECT Document/CEILOMETER STATUS
09/SEP/2011 OBJECT Document/CEILOMETER STATUS
15/SEP/2015 OBJECT Document/CEILOMETER STATUS
26/MAR/2015 OBJECT Document/CEILOMETER STATUS
22/AUG/2019 OBJECT Document/CEILOMETER STATUS

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Extended Climatological Station Metadata
All History

Station:	WOOMERA AERODROME		Location:	WOOMERA AERODROME		State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Current Status:	Still open
						Barometer Elev:	168.5 m
							Metadata compiled: 28 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

13/MAR/2013 OBJECT Document/CEILOMETER STATUS
08/APR/2016 OBJECT Document/CEILOMETER STATUS
10/APR/2018 OBJECT Document/CEILOMETER STATUS
19/NOV/2018 OBJECT Document/CEILOMETER STATUS
12/SEP/2017 OBJECT Document/CEILOMETER STATUS
11/AUG/2021 OBJECT Document/CEILOMETER STATUS
10/APR/2018 OBJECT Document/CL31 2018
31/MAR/2006 OBJECT Document/Correction for Diurnal Variation
08/NOV/2017 OBJECT Document/Duties Checklist Woomera 8 November 2017
11/APR/2018 OBJECT Document/FS11P 2018
03/AUG/2017 OBJECT Document/RSS VALIDATION RECORD
18/NOV/2015 OBJECT Document/RSS VALIDATION RECORD
17/APR/2019 OBJECT Document/RSS VALIDATION RECORD
01/SEP/2005 OBJECT Document/SITE LEASE
03/OCT/2007 OBJECT Document/SKYLINE DATA
29/OCT/1993 OBJECT Document/SKYLINE DATA
10/JUL/2001 OBJECT Document/SKYLINE DATA
21/NOV/2016 OBJECT Document/SKYLINE DATA
02/OCT/2014 OBJECT Document/SKYLINE DATA
15/SEP/2015 OBJECT Document/SKYLINE DATA
10/OCT/2002 OBJECT Document/SKYLINE DATA
11/SEP/2012 OBJECT Document/SKYLINE DATA
22/MAR/2021 OBJECT Document/SKYLINE DATA
10/JUL/2008 OBJECT Document/TSS928 Comms Diagram
21/NOV/2016 OBJECT Document/VISIBILITY METER STATUS
27/OCT/2020 OBJECT Document/VISIBILITY METER STATUS
13/JUL/2011 OBJECT Document/VISIBILITY METER STATUS
06/MAR/2012 OBJECT Document/VISIBILITY METER STATUS
30/AUG/2011 OBJECT Document/VISIBILITY METER STATUS
15/SEP/2015 OBJECT Document/VISIBILITY METER STATUS
26/MAR/2015 OBJECT Document/VISIBILITY METER STATUS
22/AUG/2019 OBJECT Document/VISIBILITY METER STATUS
13/MAR/2013 OBJECT Document/VISIBILITY METER STATUS
08/APR/2016 OBJECT Document/VISIBILITY METER STATUS
11/APR/2018 OBJECT Document/VISIBILITY METER STATUS
19/NOV/2018 OBJECT Document/VISIBILITY METER STATUS
29/AUG/2019 OBJECT Document/VISIBILITY METER STATUS
12/SEP/2017 OBJECT Document/VISIBILITY METER STATUS
02/MAR/2011 OBJECT Document/Woomera Gas Haulage 110228
25/FEB/2010 OBJECT Document/Woomeracoopcontract
23/AUG/2019 OBJECT Document/YPWR ATSO Checklist 22-Aug-2019
12/SEP/2017 OBJECT Document/YPWR ATSO Partial Support Visit 12092017
03/NOV/2016 OBJECT Document/YPWR ATSO Support Visit 03112016

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Extended Climatological Station Metadata
All History

Station:	WOOMERA AERODROME			Location:	WOOMERA AERODROME			State:	SA
Bureau No.:	016001	WMO No.:	94659	Aviation ID:	YPWR	Opened:	01 Jan 1949	Current Status:	Still open
Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m	Metadata compiled:	28 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

06/APR/2017 OBJECT Document/YPWR ATSO Support Visit 06042017
08/DEC/2016 OBJECT Document/YPWR ATSO Support Visit 08122016
10/OCT/2017 OBJECT Document/YPWR ATSO Support Visit 10102017
13/JUL/2017 OBJECT Document/YPWR ATSO Support Visit 13072017
15/JUN/2017 OBJECT Document/YPWR ATSO Support Visit 15062017
19/DEC/2016 OBJECT Document/YPWR ATSO Support Visit 19122016
17/OCT/2017 OBJECT Document/YPWR ATSO Support Visit 20171017
29/NOV/2017 OBJECT Document/YPWR ATSO Support Visit 20171129
22/DEC/2017 OBJECT Document/YPWR ATSO Support Visit 20171222
23/MAY/2017 OBJECT Document/YPWR ATSO Support Visit 23052017
23/AUG/2017 OBJECT Document/YPWR ATSO Support Visit 23082017
25/JUN/2017 OBJECT Document/YPWR ATSO Support Visit 25062017
06/JAN/2017 OBJECT Document/YPWR_ATSO_Support_Visit_Checklist_06012017
07/FEB/2017 OBJECT Document/YPWR_ATSO_Support_Visit_Checklist_07022017
16/MAR/2017 OBJECT Document/YPWR_ATSO_Support_Visit_Checklist_16032017
21/SEP/2016 OBJECT Document/YPWR_Automation_21092016
21/FEB/2011 OBJECT Document/metconsole_stationconfig_016001110221
01/JAN/1949 STATION - (nondb seeding) Opened
01/JAN/1949 STATION - (nondb seeding) bar_ht Changed to 167
01/JAN/1949 STATION - (nondb seeding) bar_ht_deriv Changed to SURVEY
01/JAN/1949 STATION - (nondb seeding) name Changed to WOOMERA AERODROME
01/JAN/1949 STATION - (nondb seeding) wmo_num Changed to 94659
01/JAN/1949 STATION aero_ht Changed to 167
01/JAN/1949 STATION aero_ht_deriv Changed to SURVEY
01/JAN/1949 STATION aviation_id Changed to YPWR
08/FEB/1990 STATION bar_ht Changed to 168.45
08/FEB/1990 STATION bar_ht_deriv Changed to SURVEY
01/JAN/1949 STATION latitude Changed to -31.1456Position in degrees and min only
08/FEB/1990 STATION latitude Changed to -31.15579
08/FEB/1990 STATION latlon_deriv Changed to GPS
01/JAN/1949 STATION latlon_deriv Changed to Unknown
08/FEB/1990 STATION latlon_error Changed to 4.5
08/FEB/1990 STATION longitude Changed to 136.80544
01/JAN/1949 STATION longitude Changed to 136.8156Position in degrees and min only
29/OCT/1993 STATION lu_0_100m Changed to Airport
01/JAN/1949 STATION lu_0_100m Changed to Open farmland, grassland or tundra
01/JAN/1949 STATION lu_100m_1km Changed to Airport
27/JUN/2000 STATION lu_100m_1km Changed to Airport
29/OCT/1993 STATION lu_100m_1km Changed to Open farmland, grassland or tundra
01/JAN/1949 STATION lu_1km_10km Changed to Open farmland, grassland or tundra
27/JUN/2000 STATION lu_1km_10km Changed to Small town < 1000 population
29/OCT/1993 STATION lu_1km_10km Changed to Town 1000 to 10,000
01/JAN/1949 STATION soil_type Changed to clay

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Extended Climatological Station Metadata
All History

Station:	WOOMERA AERODROME		Location:	WOOMERA AERODROME		State:	SA
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Latitude:	-31.1558	Longitude:	136.8054	Elevation:	166.6 m	Barometer Elev:	168.5 m
Current Status:							Still open
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Station Equipment History (continued)

Station Detail Changes(Continued)

29/OCT/1993 STATION soil_type Changed to clay
01/JAN/1949 STATION stn_ht Changed to 165.2
08/FEB/1990 STATION stn_ht Changed to 166.6
08/FEB/1990 STATION stn_ht_deriv Changed to SURVEY
01/JAN/1949 STATION stn_ht_deriv Changed to Unknown
29/OCT/1993 STATION surface_type Changed to bare ground
28/APR/1987 STATION surface_type Changed to rock

System Changes

15/MAR/2007 SYSTEM External Clients Commenced
01/JAN/1949 SYSTEM Infrastructure Commenced
12/APR/2018 SYSTEM Rainfall Intensity Ceased
01/JAN/1955 SYSTEM Rainfall Intensity Commenced
08/FEB/2018 SYSTEM Reference Standards Ceased
23/DEC/2009 SYSTEM Reference Standards Commenced
01/JAN/1949 SYSTEM Surface Observations Commenced
01/MAR/1949 SYSTEM Upper Air Commenced
01/JAN/1967 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)

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

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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