



Basic Climatological Station Metadata  
Current status

Metadata compiled: 28 JUL 2025

Station: MOUNT GAMBIER AERO

Bureau of Meteorology station number: 026021  
Bureau of Meteorology district name: Lower Southeast  
State: SA

World Meteorological Organization number: 94821  
Identification: YMTG

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

Station purpose: Synoptic, Upper Air, Aeronautical  
Automatic Weather Station: Almos



Current Station Location				
Latitude	Decimal	-37.7473	Hour Min Sec	37°44'50"S
Longitude	Decimal	140.7739	Hour Min Sec	140°46'26"E
Station Height	63 m	Barometer Height	69 m	
Method of station geographic positioning			GPS	

Year opened: 1941  
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.

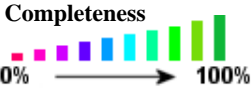


Basic Climatological Station Metadata  
Current status

<b>Station:</b> MOUNT GAMBIER AERO			<b>Location:</b> MOUNT GAMBIER AERO			<b>State:</b> SA			
<b>Bureau No.:</b> 026021		<b>WMO No.:</b> 94821		<b>Aviation ID:</b> YMTG		<b>Opened:</b> 01 Jan 1941		<b>Current Status:</b> Still open	
<b>Latitude:</b> -37.7473		<b>Longitude:</b> 140.7739		<b>Elevation:</b> 63 m		<b>Barometer Elev:</b> 69 m		<b>Metadata compiled:</b> 28 JUL 2025	

Observation summary

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



DAILY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
EVAPORATION	JAN 1967	DEC 2016	98.7	50	6
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	JUL 1968	AUG 2013	92.1	317	32
GROUND MINIMUM TEMPERATURE	SEP 1970	APR 2016	99.6	58	0
MAXIMUM AIR TEMPERATURE	FEB 1942	JUN 2025	99.8	35	0
MAXIMUM WIND GUST SPEED	AUG 1948	JUN 2025	97.2	218	18
SUNSHINE HOURS	AUG 1966	APR 2016	99.8	35	0
WIND RUN ABOVE 10 FEET	SEP 1994	JUN 2025	98.1	203	0
WIND RUN BELOW 10 FEET	OCT 1968	DEC 2016	98.4	62	7
RAINFALL	SEP 1941	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 1941	JUN 2025	99.2	10.4	73	0
DEW POINT	JAN 1942	JUN 2025	91.1	10.7	92	81
MEAN SEA LEVEL PRESSURE	SEP 1941	JUN 2025	99.3	10.4	35	0
SOIL TEMPERATURE - 10cm	AUG 2002	APR 2016	98.1	2.0	53	0
TOTAL CLOUD AMOUNT	AUG 1941	JUN 2025	97.0	6.8	222	0
WIND SPEED	AUG 1941	JUN 2025	99.2	10.3	56	0
UPPER AIR TEMPERATURE	FEB 1964	JUN 2025	66.8	1.5	3687	1
UPPER AIR WIND SPEED	FEB 1945	JUN 2025	76.0	3.1	4402	18

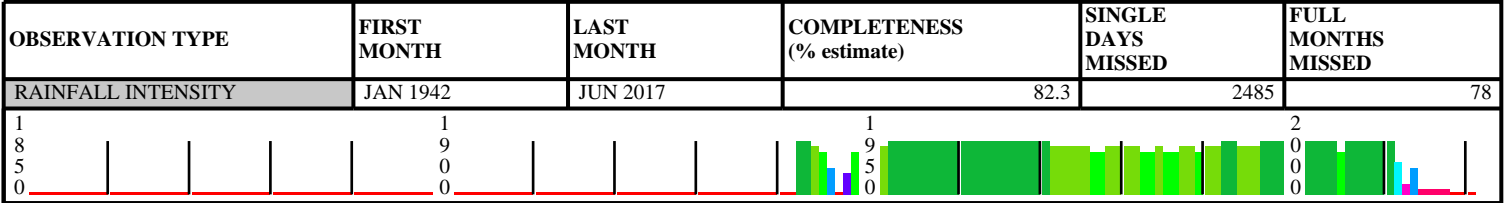
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RAINFALL INTENSITY DATA HOLDINGS



ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	AUG 2003	JUL 2025	99.7	1436.2	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	APR 1992	JUL 2025	108.5	52.1	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	Oct 1997	May 2016	N/A	1.7	496	58
Wind, temperature and pressure flights	May 1991	Feb 2017	N/A	1.2	1229	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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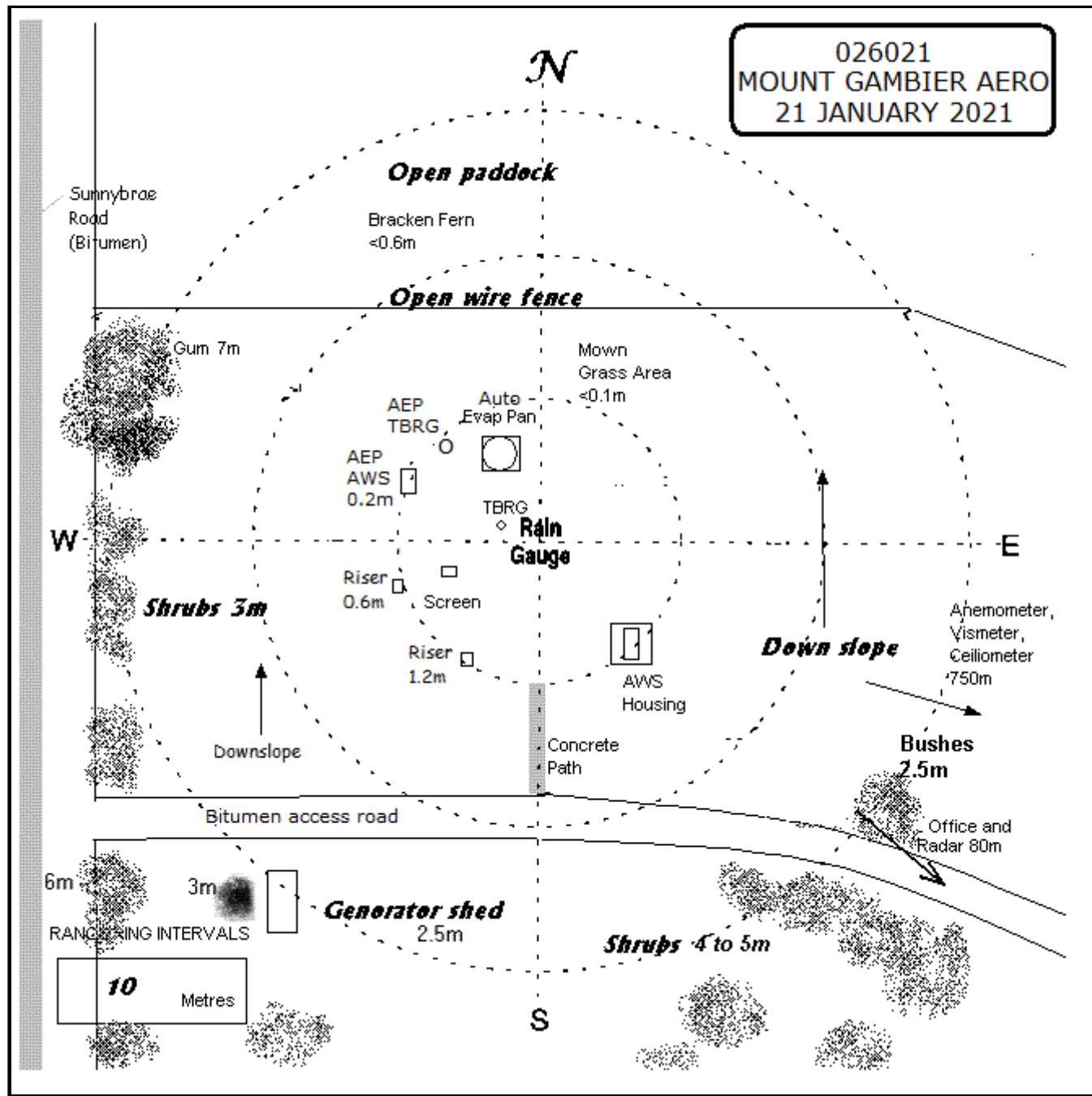
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All History

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### Instrument Location and Surrounding Features

21/01/2021(most recent)



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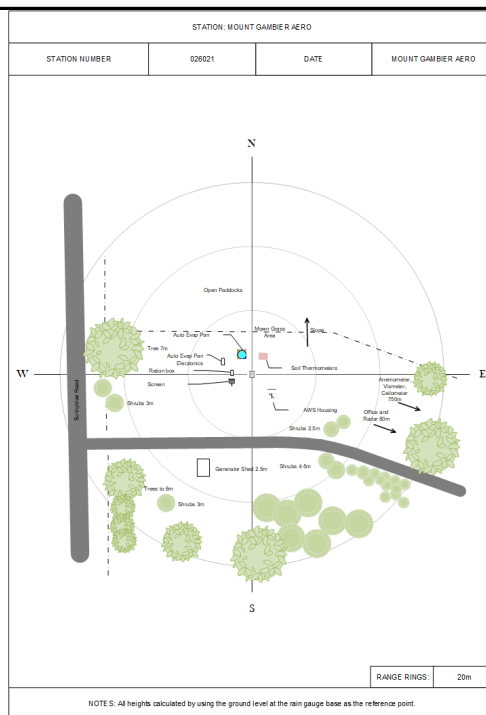
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## Instrument Location and Surrounding Features



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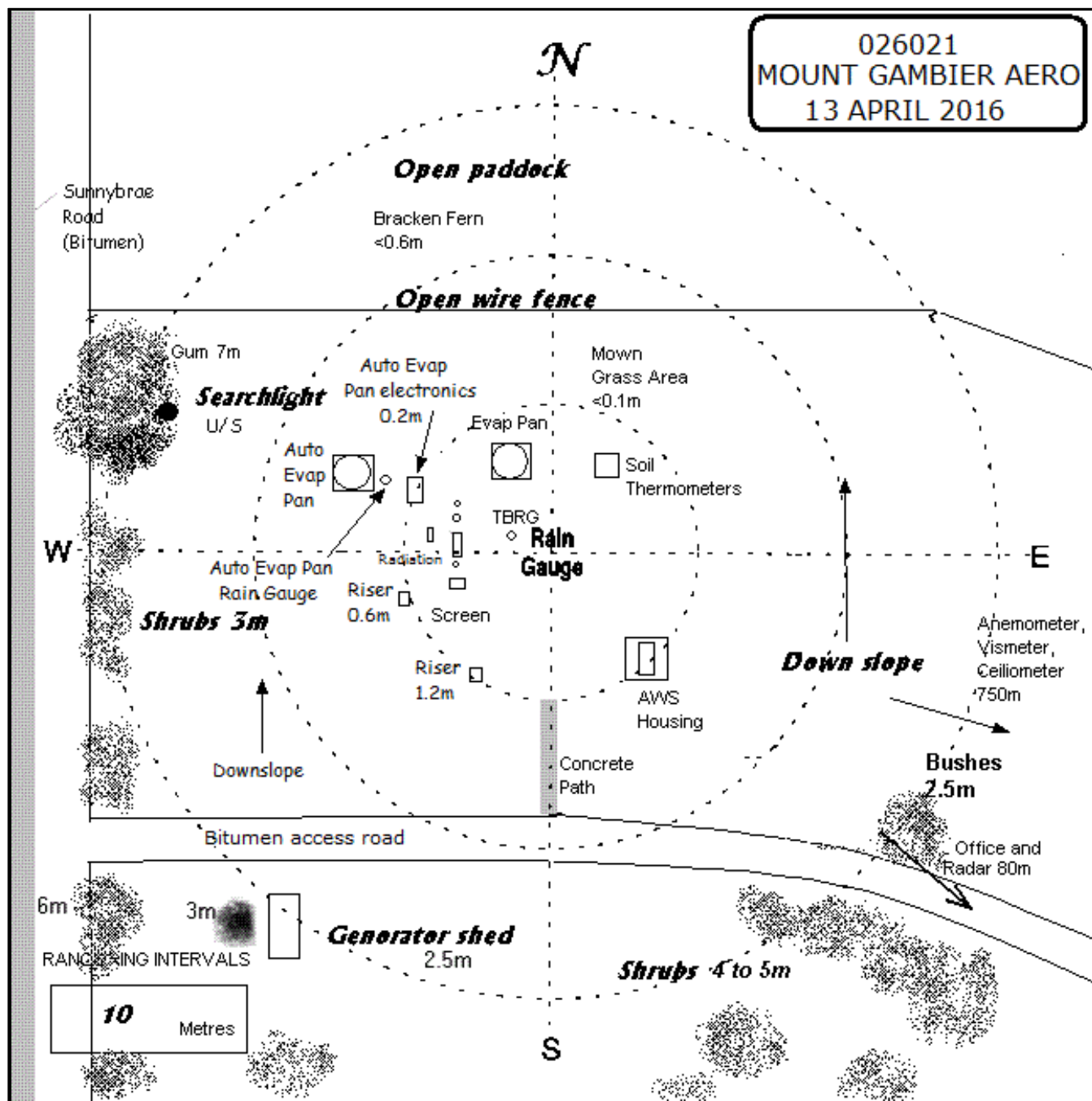
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## All History

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13/04/2016



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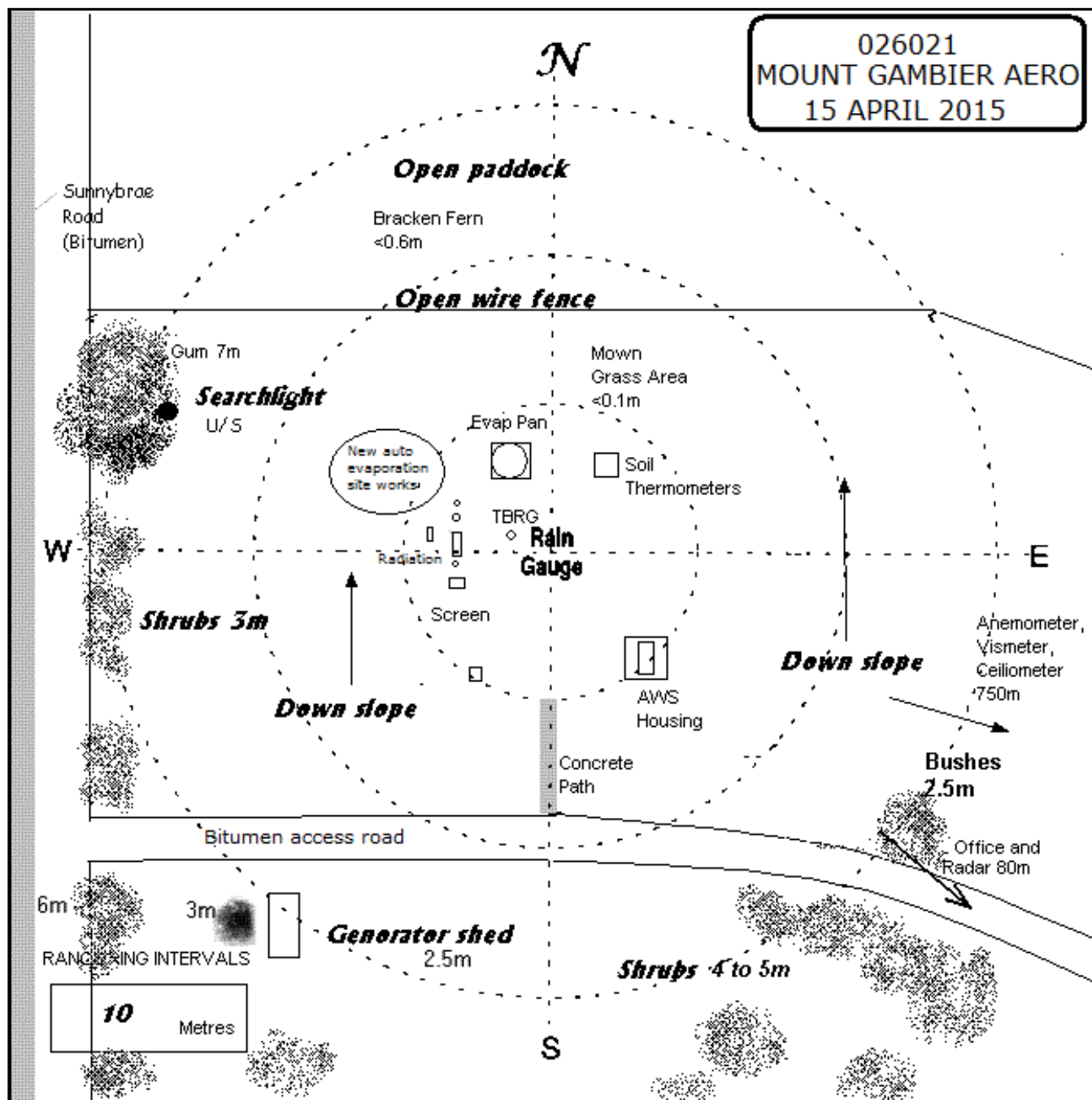
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All History

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### Instrument Location and Surrounding Features

15/04/2015



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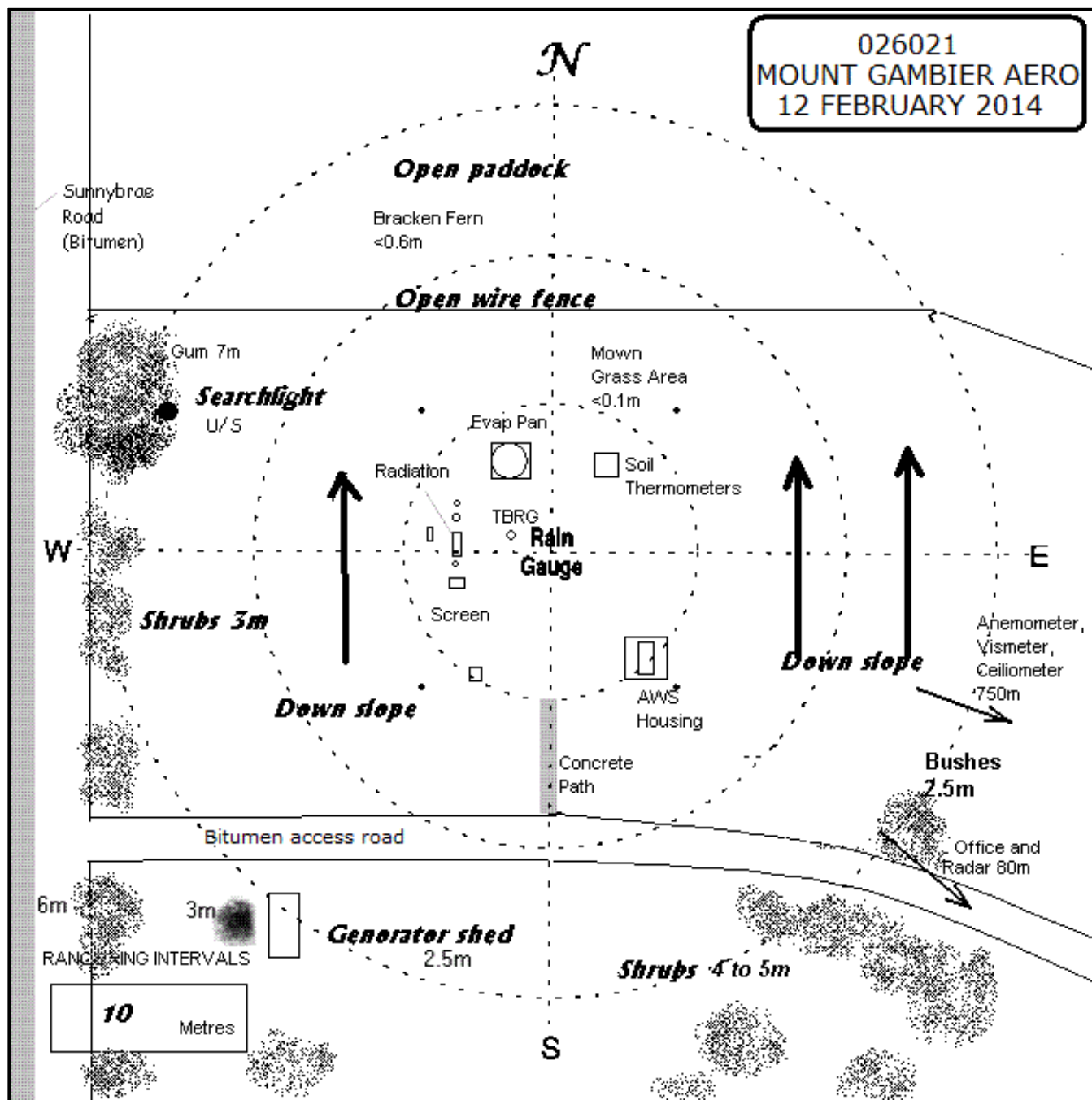
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### Instrument Location and Surrounding Features

12/02/2014



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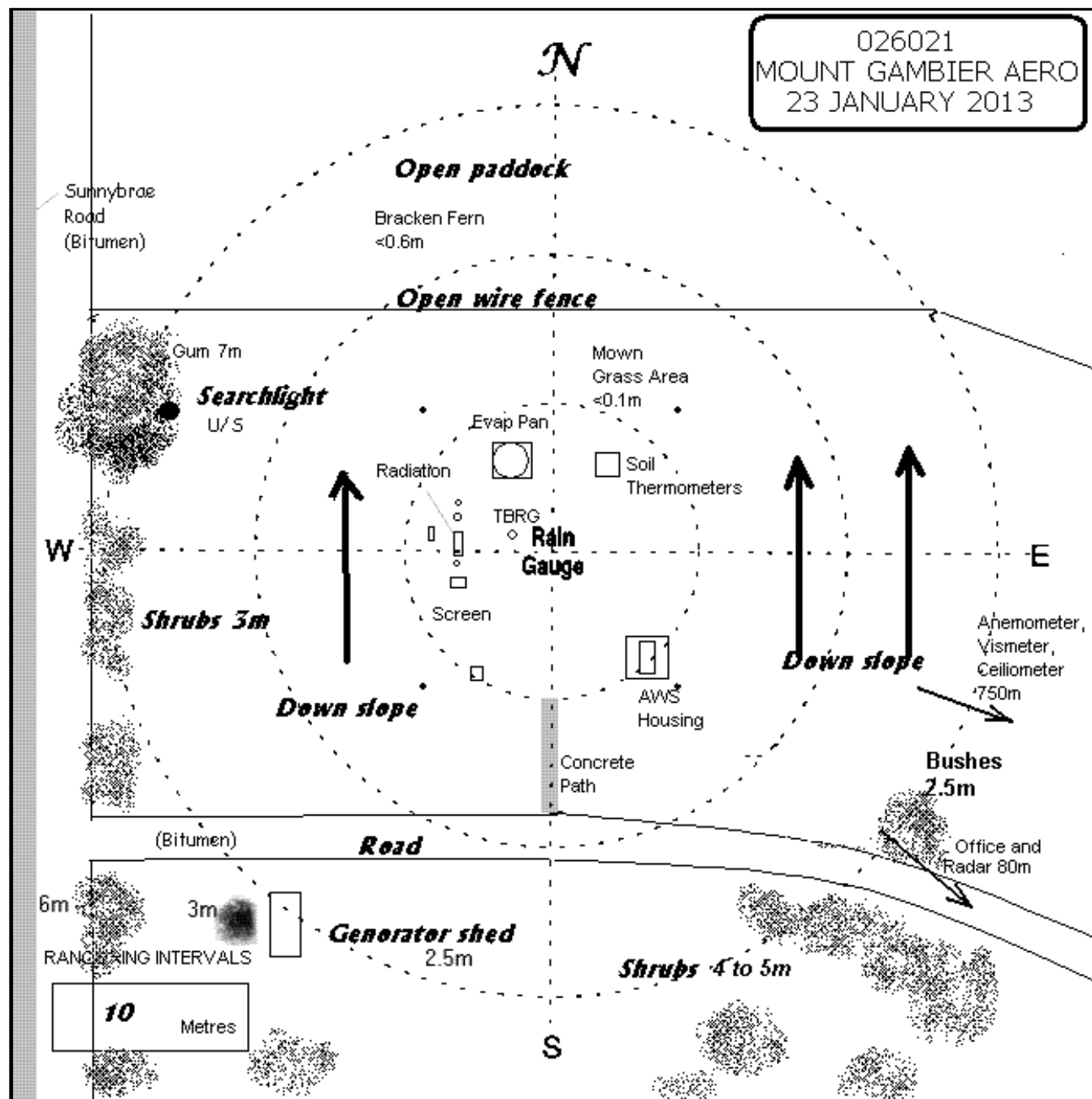
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### Instrument Location and Surrounding Features

23/01/2013



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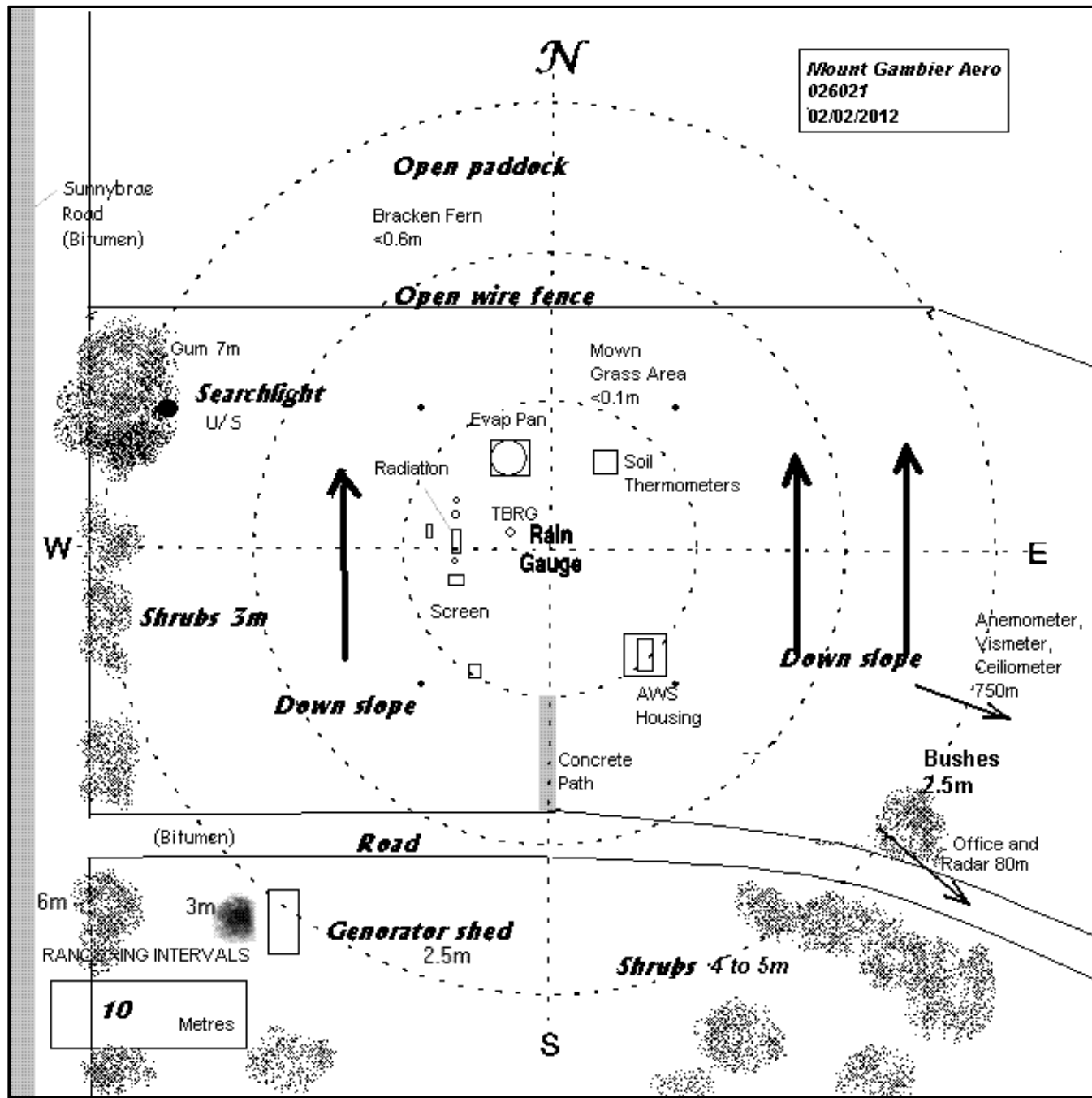
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### Instrument Location and Surrounding Features

02/02/2012



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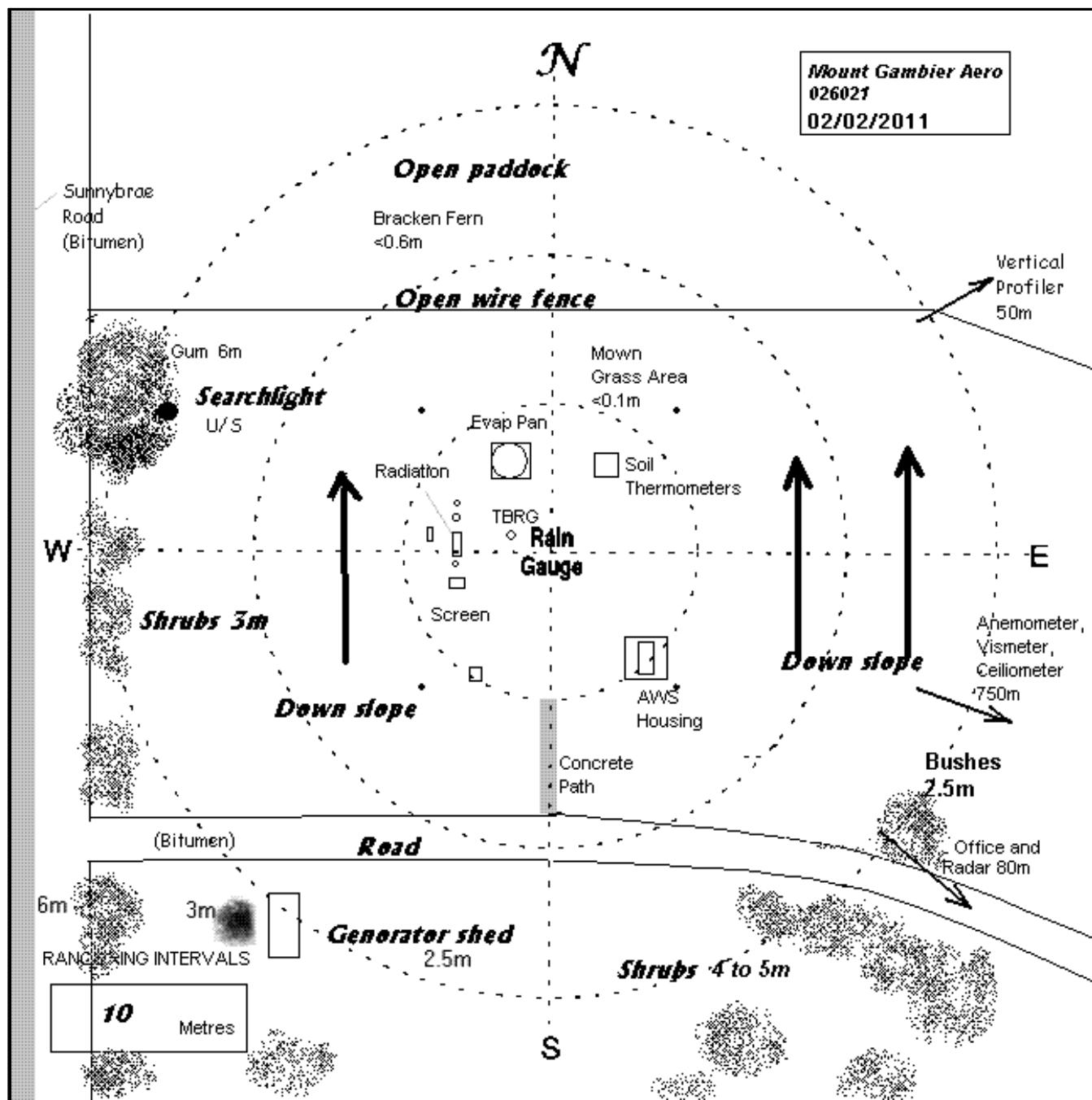
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### Instrument Location and Surrounding Features

02/02/2011



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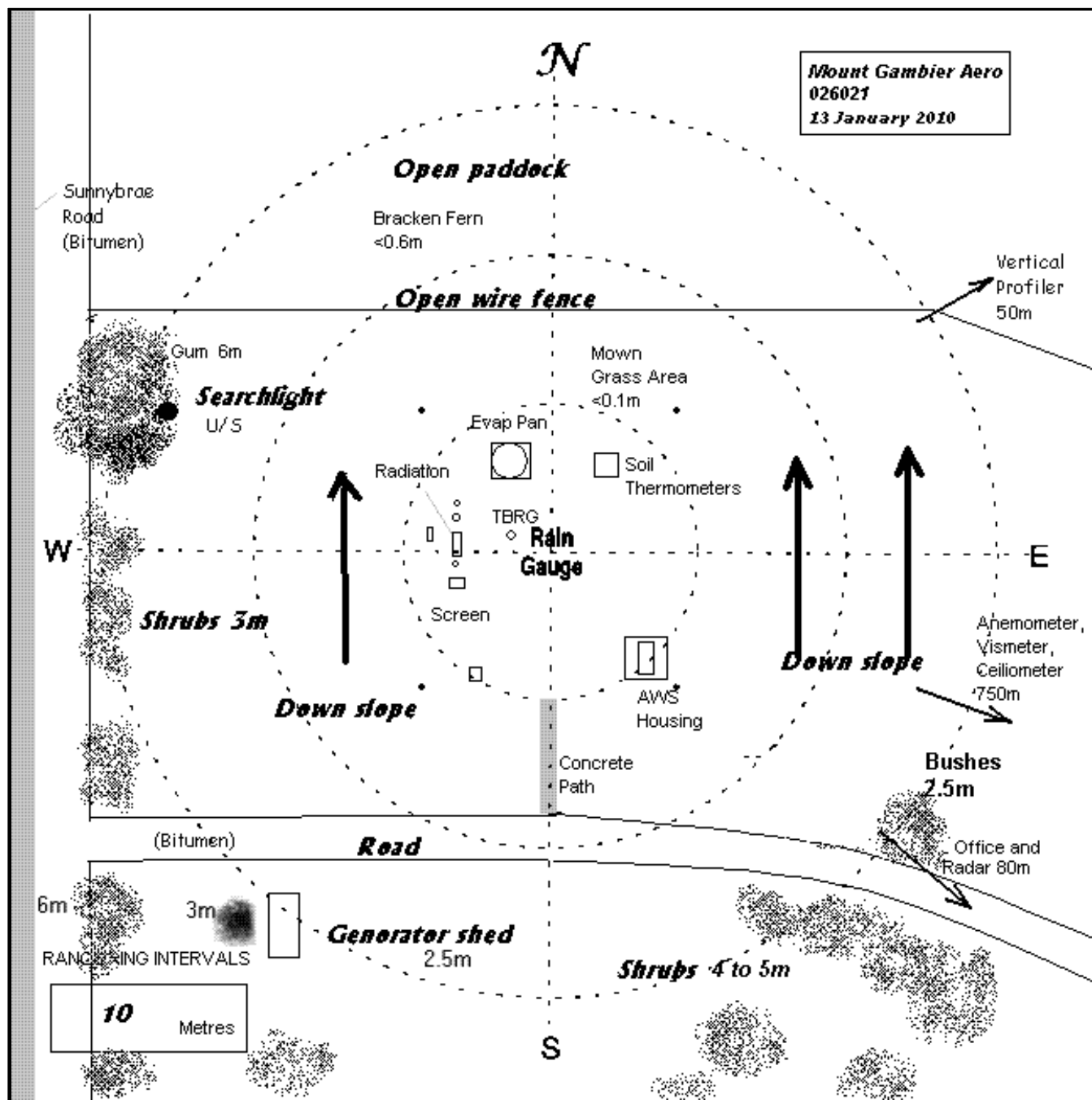
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### Instrument Location and Surrounding Features

13/01/2010



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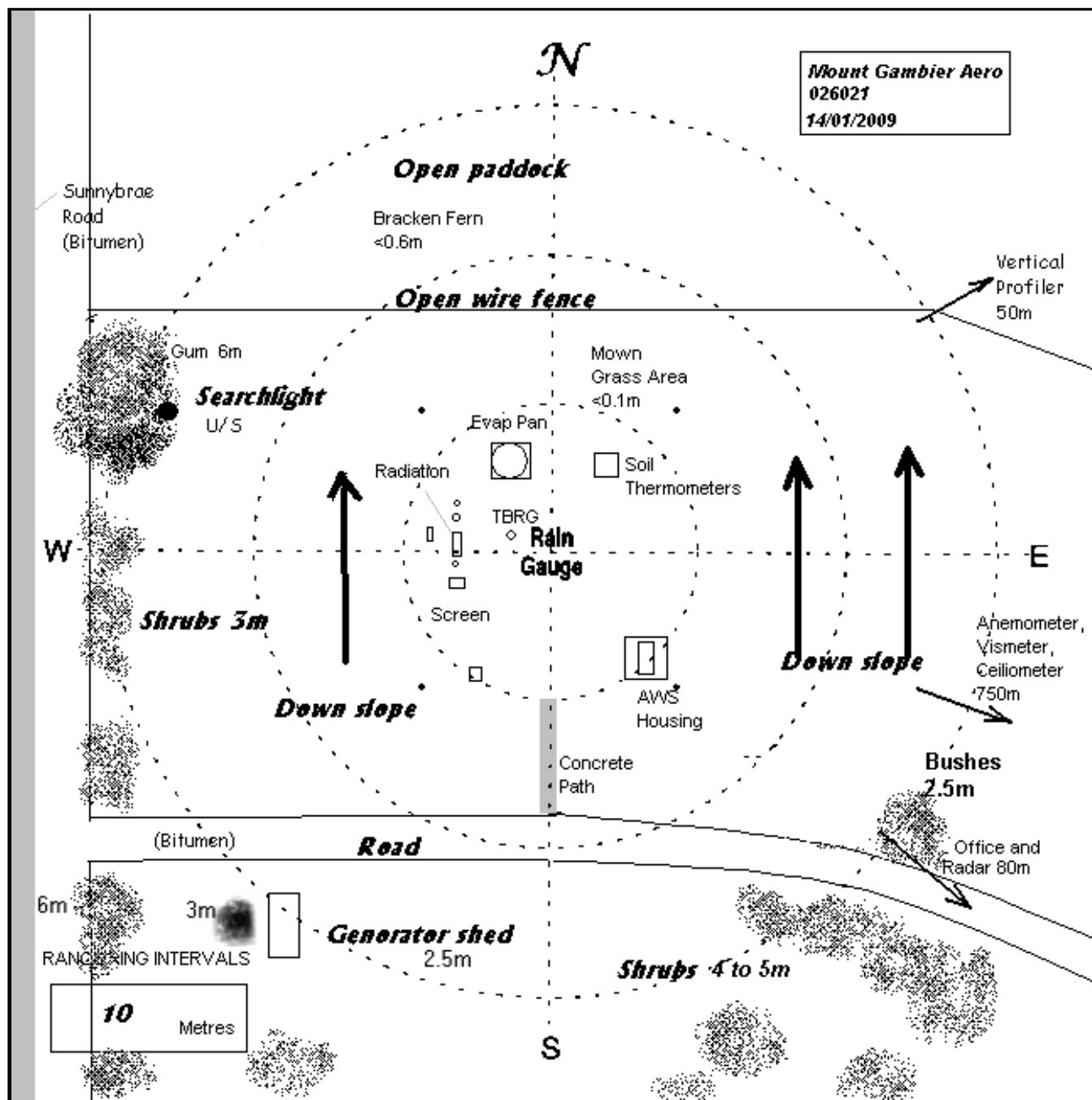
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### Instrument Location and Surrounding Features

14/01/2009



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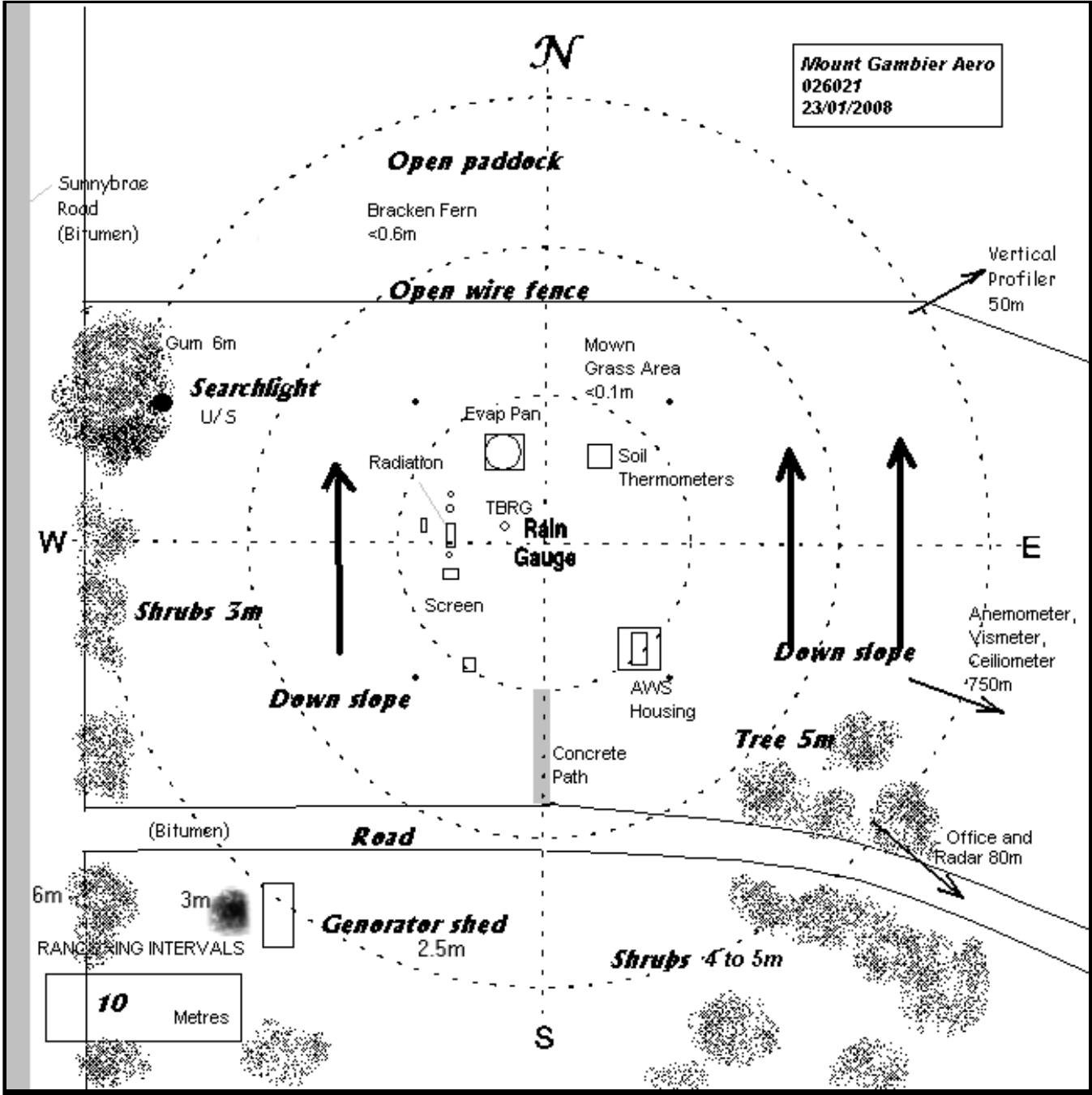
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Instrument Location and Surrounding Features  
23/01/2008



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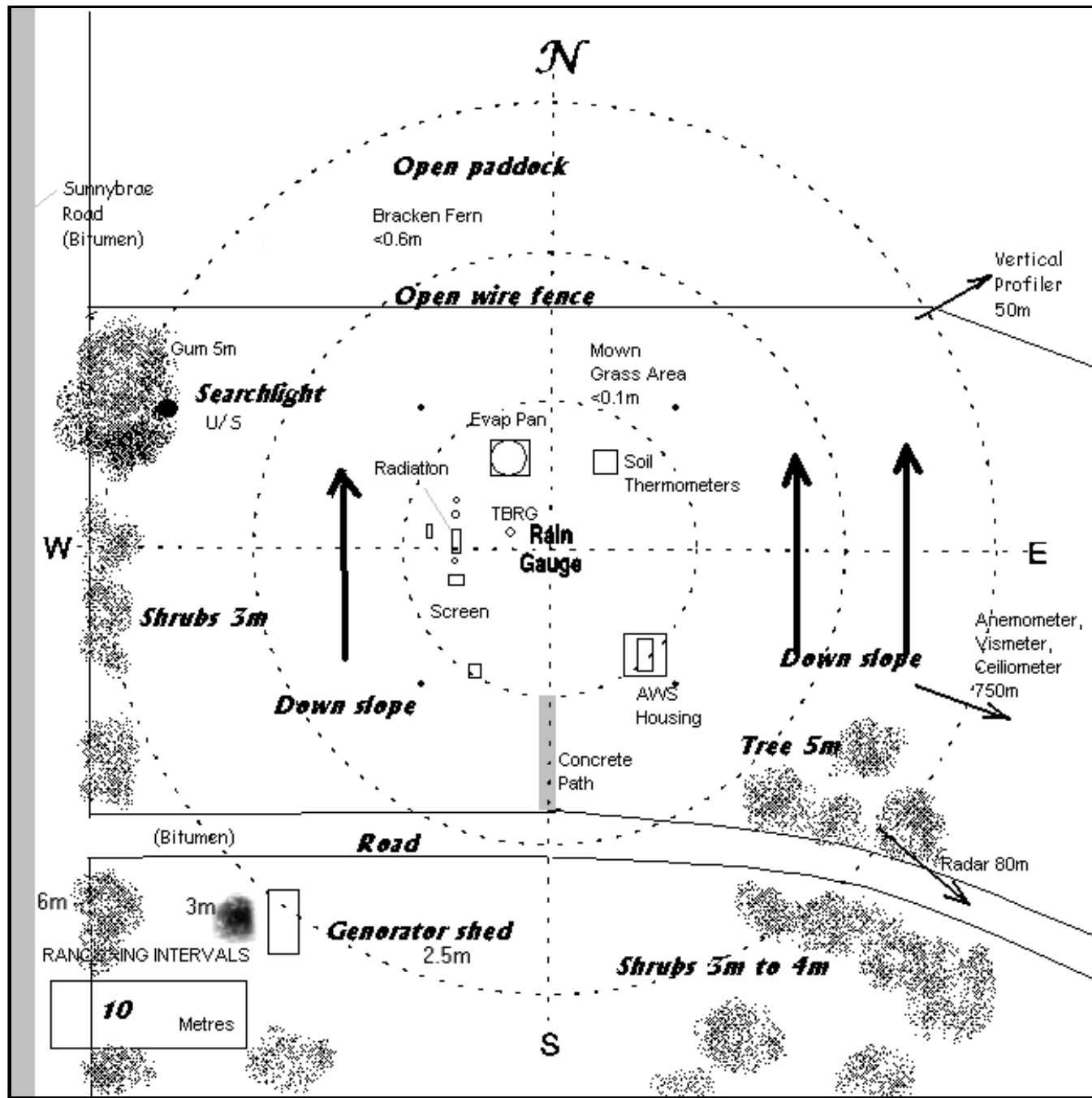
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### Instrument Location and Surrounding Features

17/01/2007



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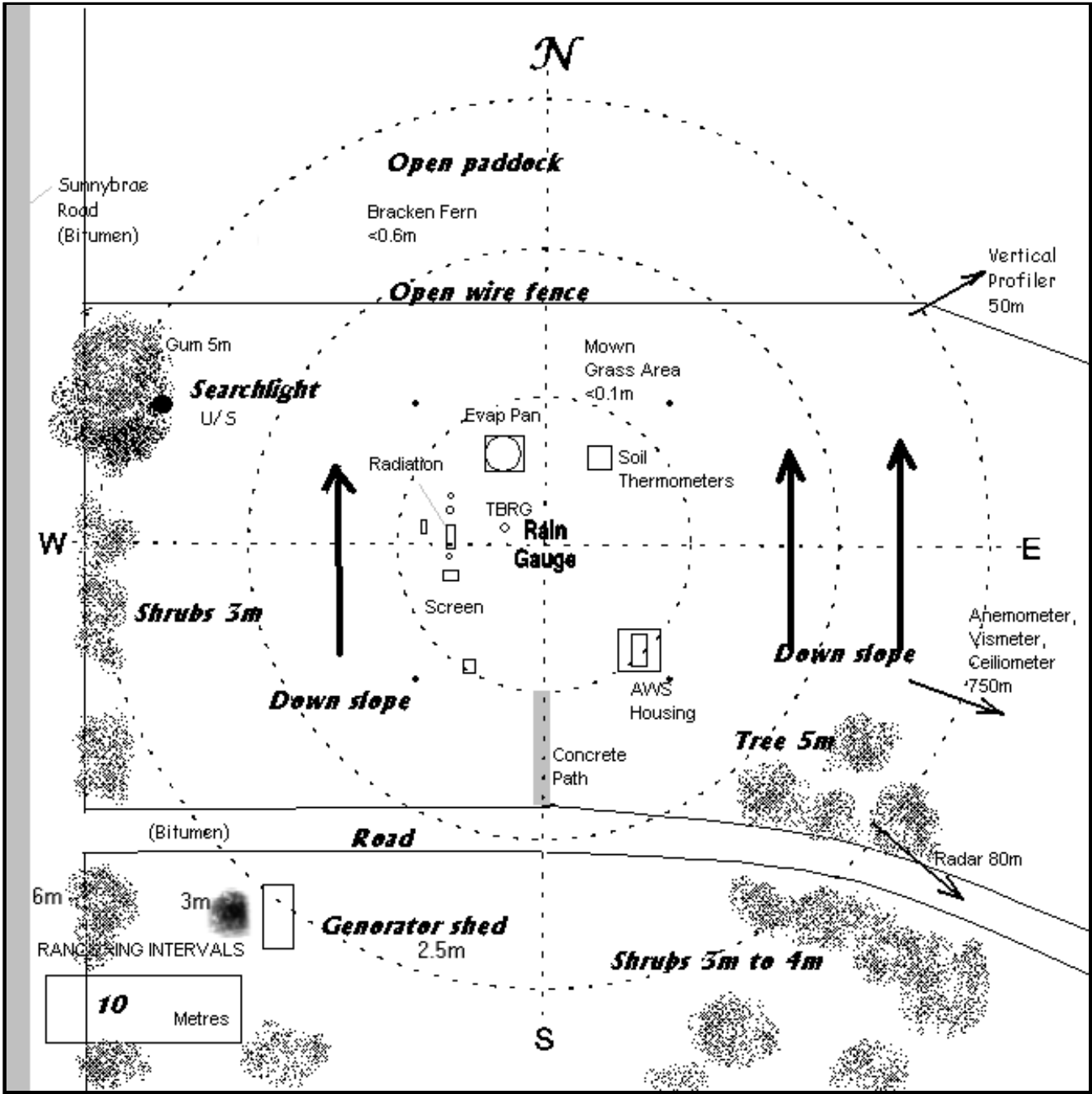
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<b>Latitude:</b>	-37.7473	<b>Longitude:</b>	140.7739	<b>Elevation:</b>	63 m	<b>Barometer Elev:</b>	69 m
						<b>Current Status:</b>	Still open
						<b>Metadata compiled:</b>	28 JUL 2025

Instrument Location and Surrounding Features  
02/02/2006



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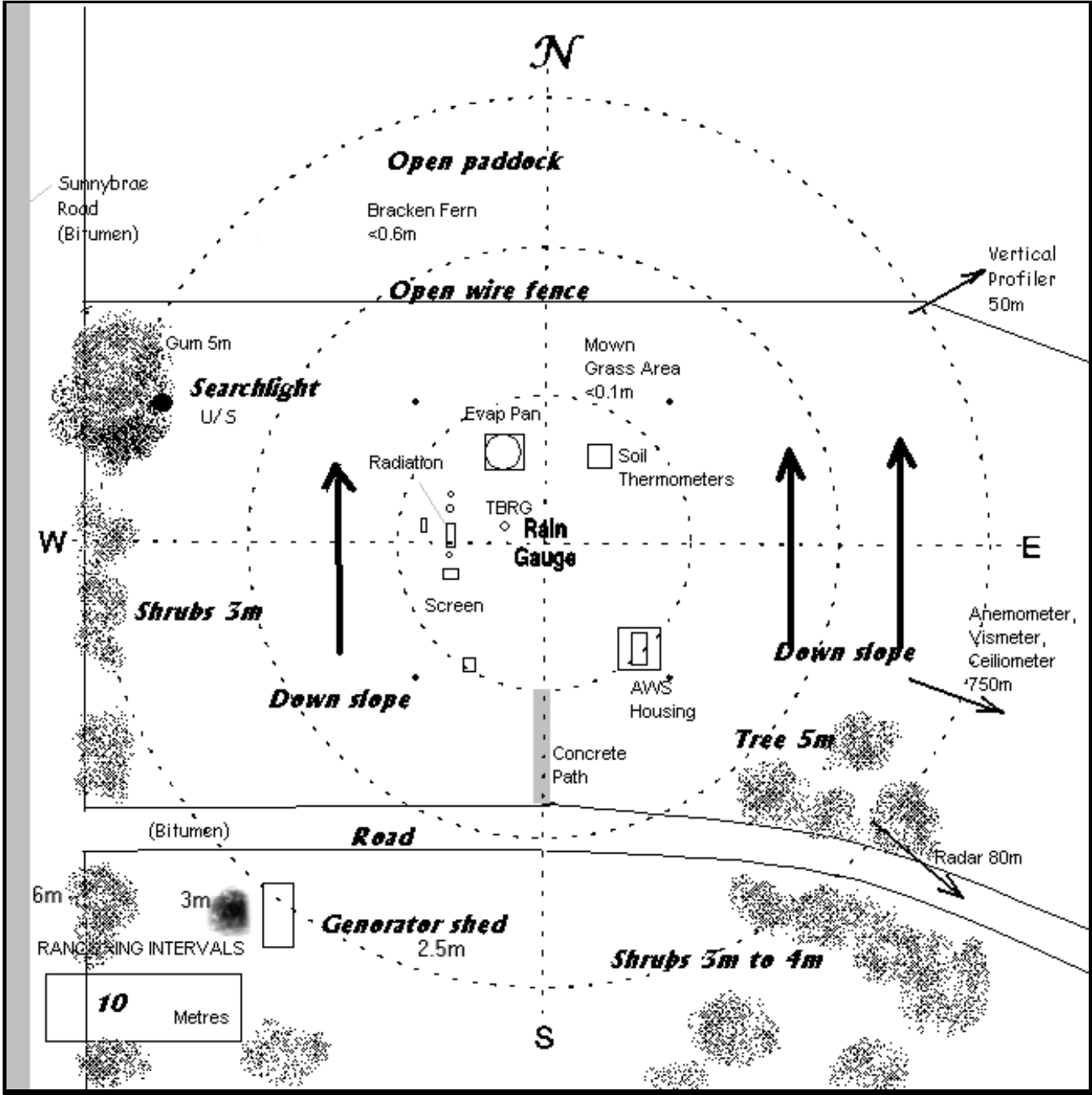
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Extended Climatological Station Metadata  
All History

<b>Station:</b> MOUNT GAMBIER AERO			<b>Location:</b> MOUNT GAMBIER AERO			<b>State:</b> SA			
<b>Bureau No.:</b> 026021		<b>WMO No.:</b> 94821		<b>Aviation ID:</b> YMTG		<b>Opened:</b> 01 Jan 1941		<b>Current Status:</b> Still open	
<b>Latitude:</b> -37.7473		<b>Longitude:</b> 140.7739		<b>Elevation:</b> 63 m		<b>Barometer Elev:</b> 69 m		<b>Metadata compiled:</b> 28 JUL 2025	

Instrument Location and Surrounding Features  
21/01/2005



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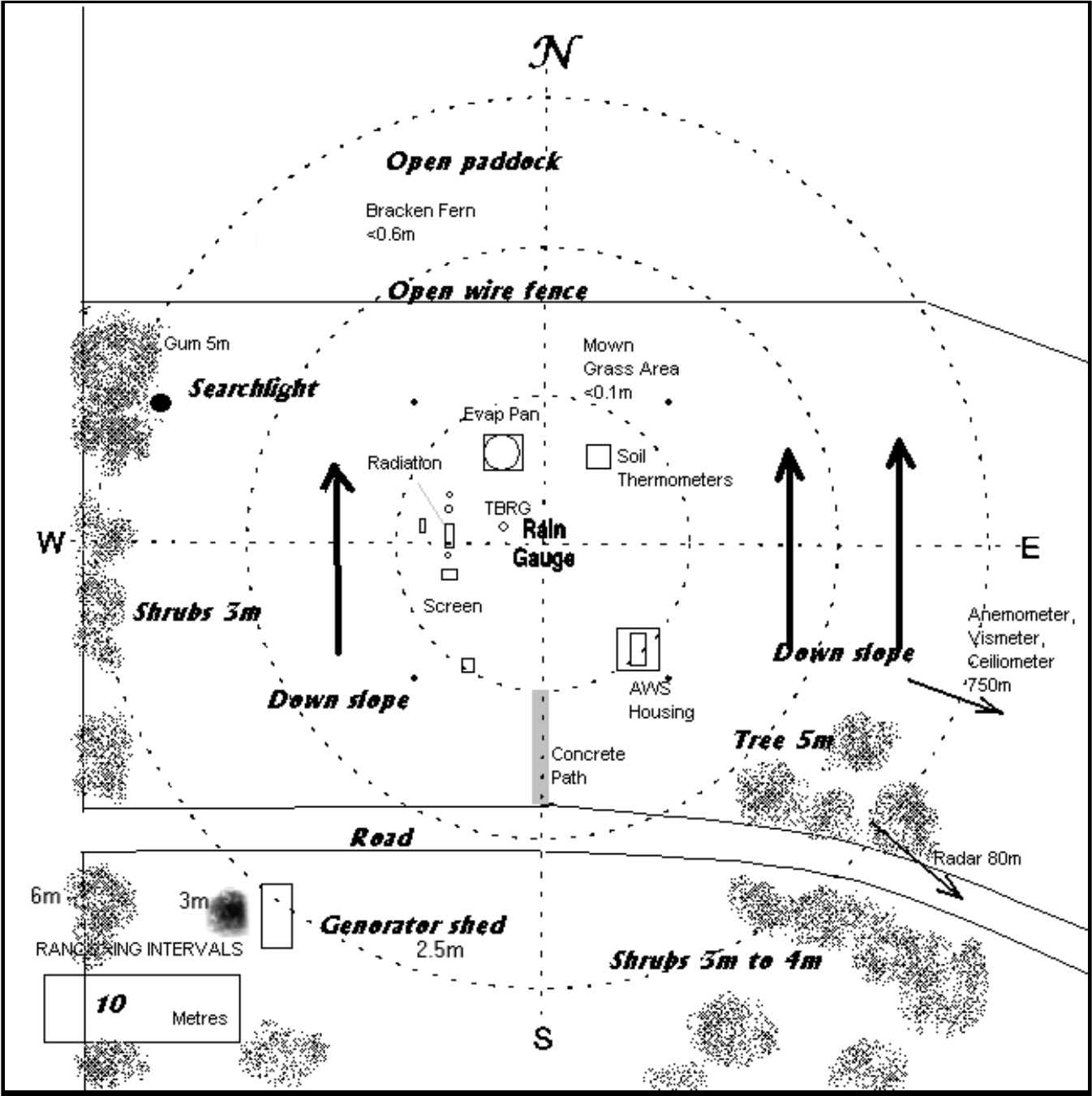
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Extended Climatological Station Metadata  
All History

<b>Station:</b>	MOUNT GAMBIER AERO		<b>Location:</b>	MOUNT GAMBIER AERO		<b>State:</b>	SA
<b>Bureau No.:</b>	026021	<b>WMO No.:</b>	94821	<b>Aviation ID:</b>	YMTG	<b>Opened:</b>	01 Jan 1941
<b>Latitude:</b>	-37.7473	<b>Longitude:</b>	140.7739	<b>Elevation:</b>	63 m	<b>Barometer Elev:</b>	69 m
						<b>Current Status:</b>	Still open
						<b>Metadata compiled:</b>	28 JUL 2025

Instrument Location and Surrounding Features  
25/02/2004



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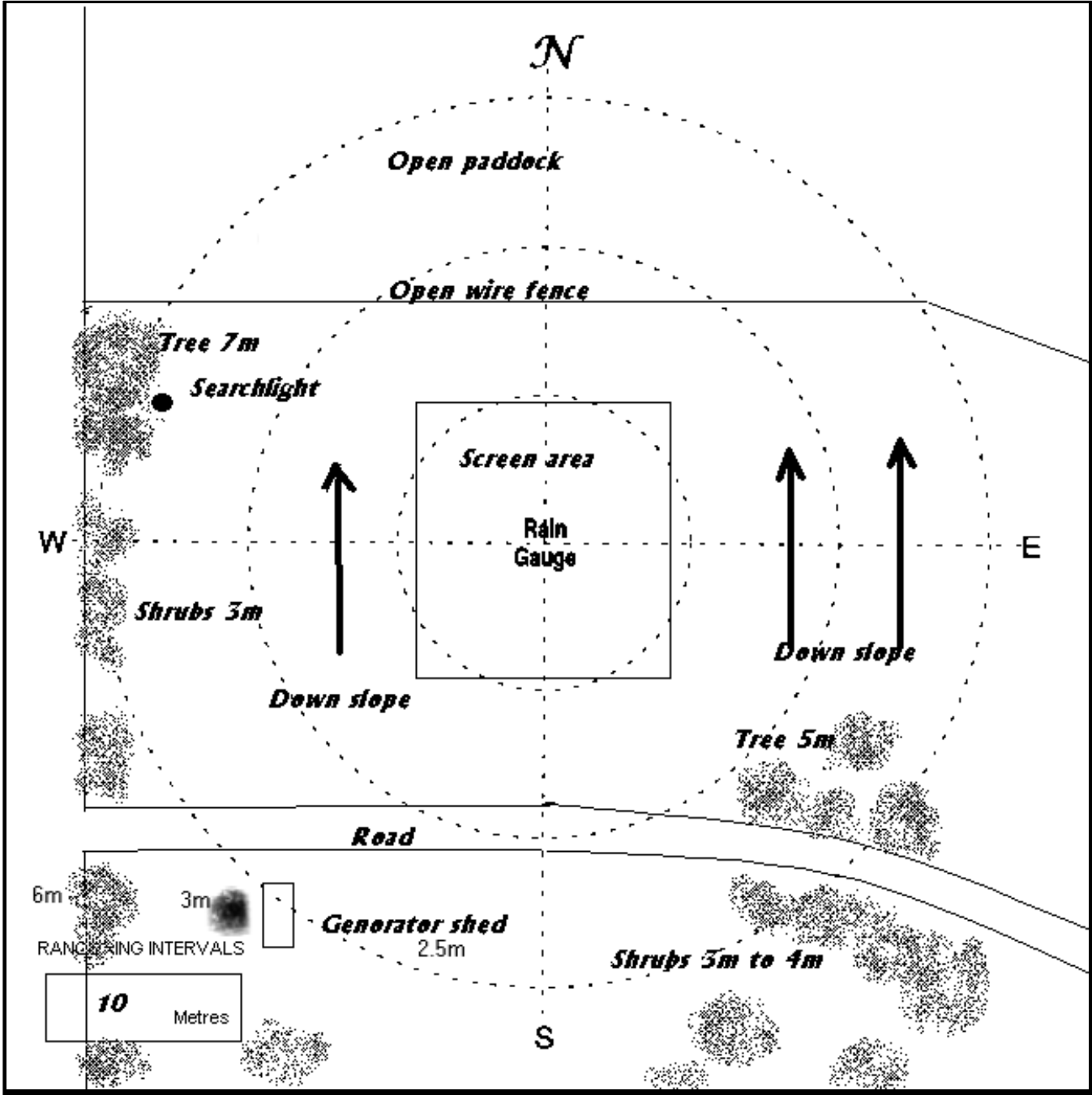
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Extended Climatological Station Metadata  
All History

Station:	MOUNT GAMBIER AERO		Location:	MOUNT GAMBIER AERO		State:	SA
Bureau No.:	026021	WMO No.:	94821	Aviation ID:	YMTG	Opened:	01 Jan 1941
Latitude:	-37.7473	Longitude:	140.7739	Elevation:	63 m	Barometer Elev:	69 m
						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features  
31/03/2003



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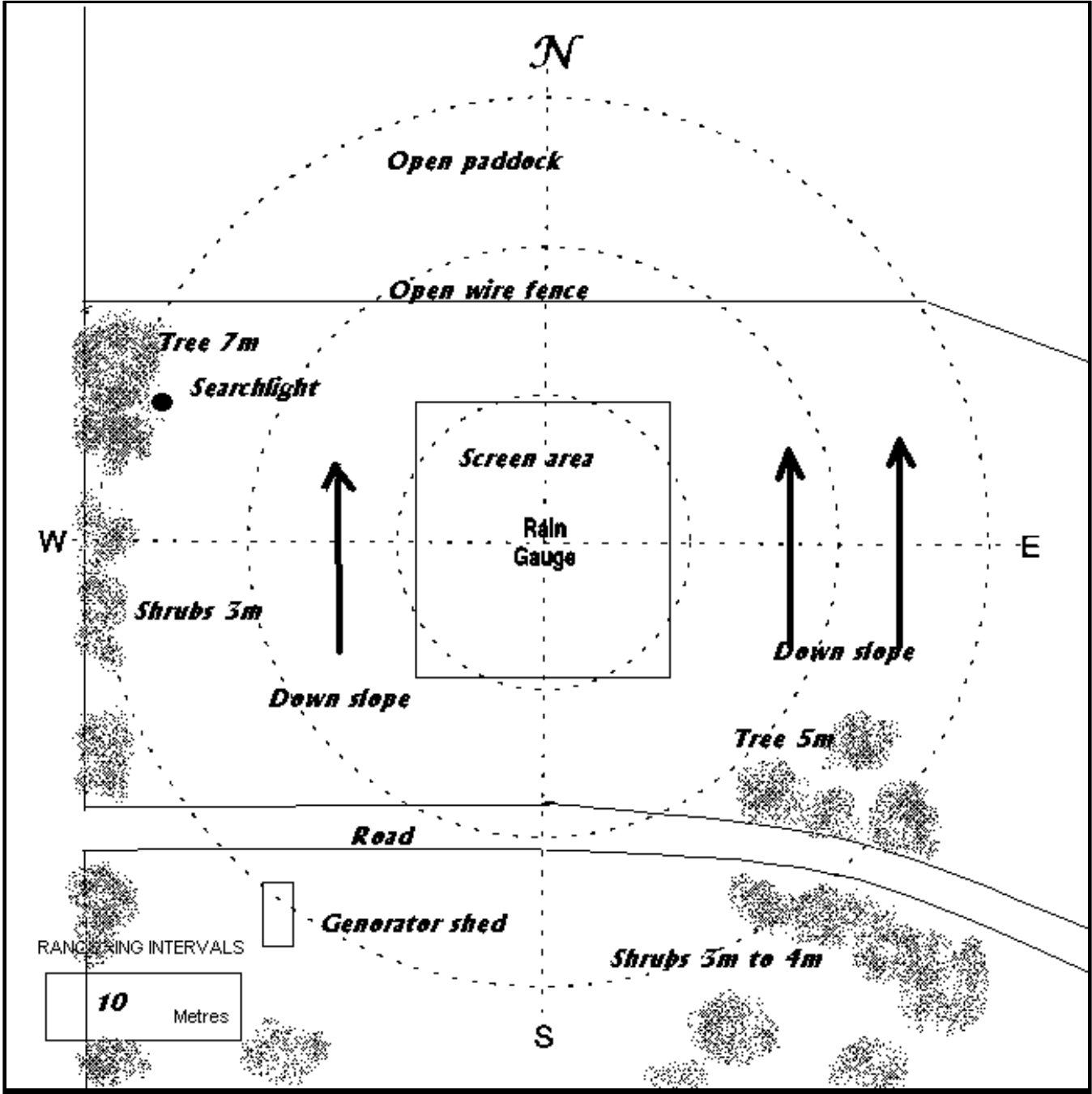
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Extended Climatological Station Metadata  
All History

Station:	MOUNT GAMBIER AERO		Location:	MOUNT GAMBIER AERO		State:	SA
Bureau No.:	026021	WMO No.:	94821	Aviation ID:	YMTG	Opened:	01 Jan 1941
Latitude:	-37.7473	Longitude:	140.7739	Elevation:	63 m	Barometer Elev:	69 m
						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features  
13/02/2002



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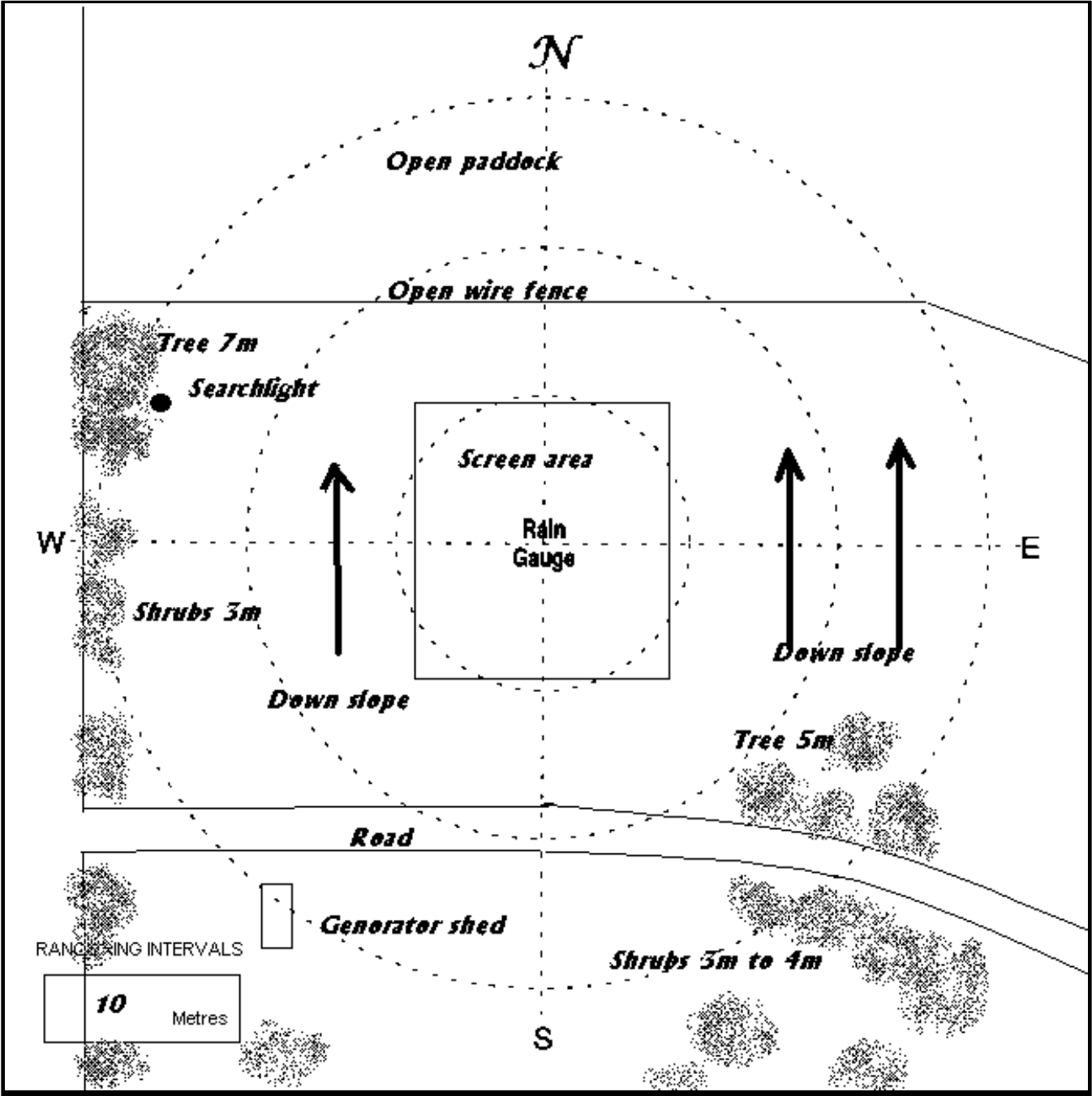
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Extended Climatological Station Metadata  
All History

Station:	MOUNT GAMBIER AERO		Location:	MOUNT GAMBIER AERO		State:	SA
Bureau No.:	026021	WMO No.:	94821	Aviation ID:	YMTG	Opened:	01 Jan 1941
Latitude:	-37.7473	Longitude:	140.7739	Elevation:	63 m	Barometer Elev:	69 m
						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features  
19/01/2001



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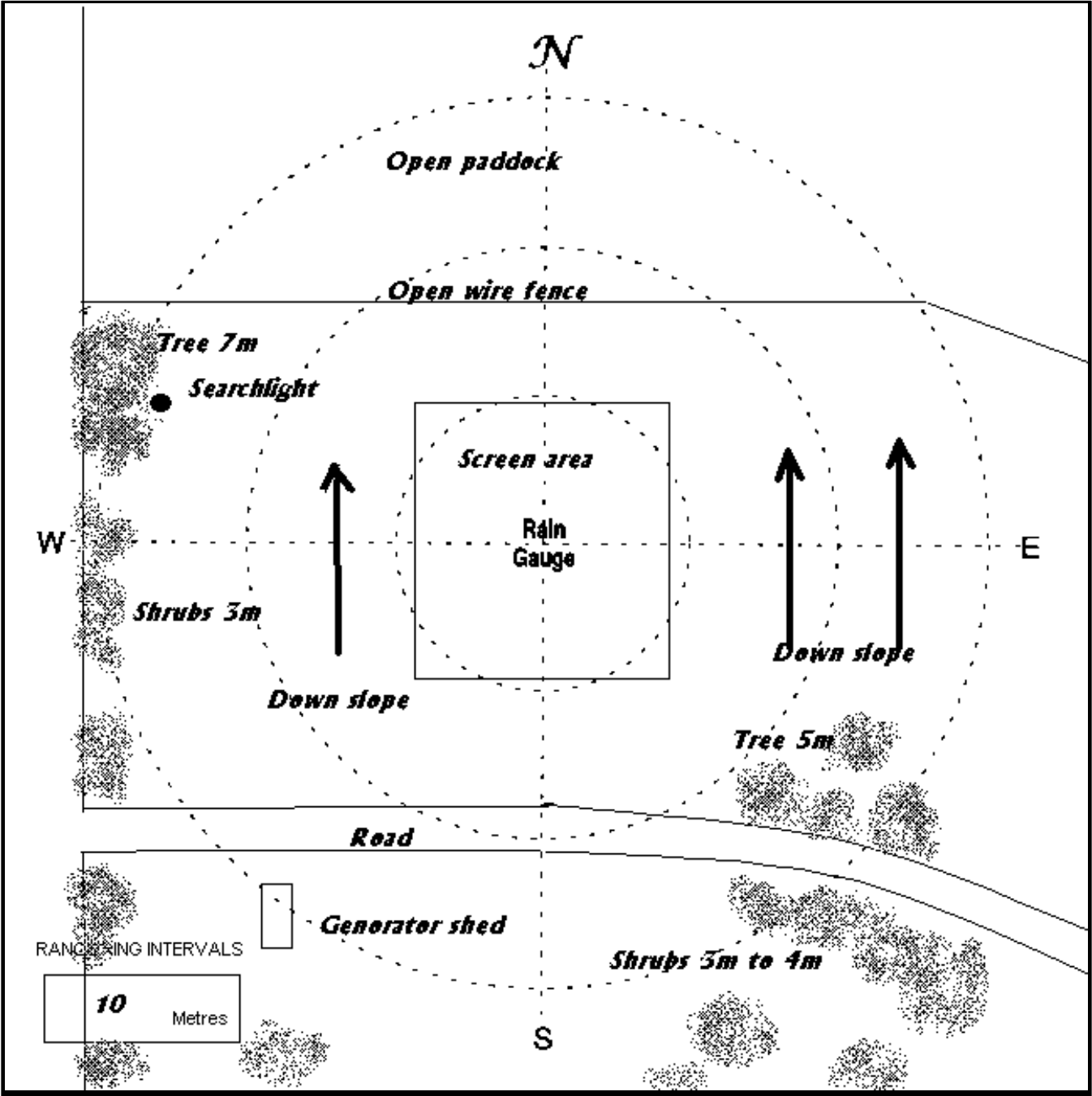
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Extended Climatological Station Metadata  
All History

Station:	MOUNT GAMBIER AERO		Location:	MOUNT GAMBIER AERO		State:	SA
Bureau No.:	026021	WMO No.:	94821	Aviation ID:	YMTG	Opened:	01 Jan 1941
Latitude:	-37.7473	Longitude:	140.7739	Elevation:	63 m	Barometer Elev:	69 m
						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features  
17/02/1997



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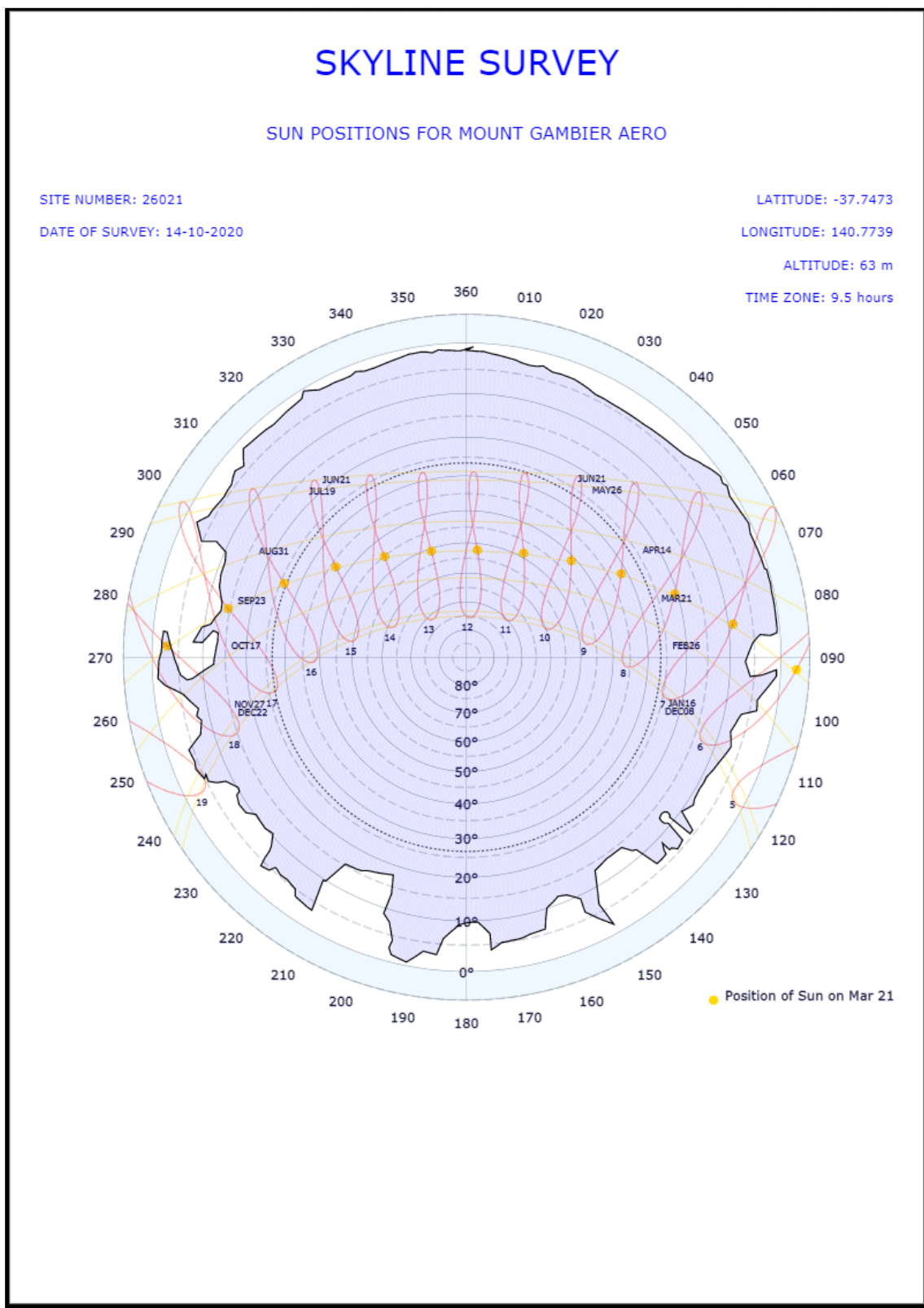
## Extended Climatological Station Metadata

All History

<b>Station:</b>	MOUNT GAMBIER AERO	<b>Location:</b>	MOUNT GAMBIER AERO	<b>State:</b>	SA
<b>Bureau No.:</b>	026021	<b>WMO No.:</b>	94821	<b>Aviation ID:</b>	YMTG
<b>Latitude:</b>	-37.7473	<b>Longitude:</b>	140.7739	<b>Opened:</b>	01 Jan 1941
		<b>Elevation:</b>	63 m	<b>Barometer Elev:</b>	69 m
				<b>Current Status:</b>	Still open
				<b>Metadata compiled:</b>	28 JUL 2025

### Skyline Diagram

14/10/2020(most recent)



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## Extended Climatological Station Metadata

All History

<b>Station:</b>	MOUNT GAMBIER AERO		<b>Location:</b>	MOUNT GAMBIER AERO		<b>State:</b>	SA
<b>Bureau No.:</b>	026021	<b>WMO No.:</b>	94821	<b>Aviation ID:</b>	YMTG	<b>Opened:</b>	01 Jan 1941
<b>Latitude:</b>	-37.7473	<b>Longitude:</b>	140.7739	<b>Elevation:</b>	63 m	<b>Barometer Elev:</b>	69 m
						<b>Current Status:</b>	Still open
						<b>Metadata compiled:</b>	28 JUL 2025

### Skyline Diagram

13/04/2016

## SKYLINE SURVEY

### SUN POSITIONS FOR MOUNT GAMBIER AERO

SITE NUMBER: 026021

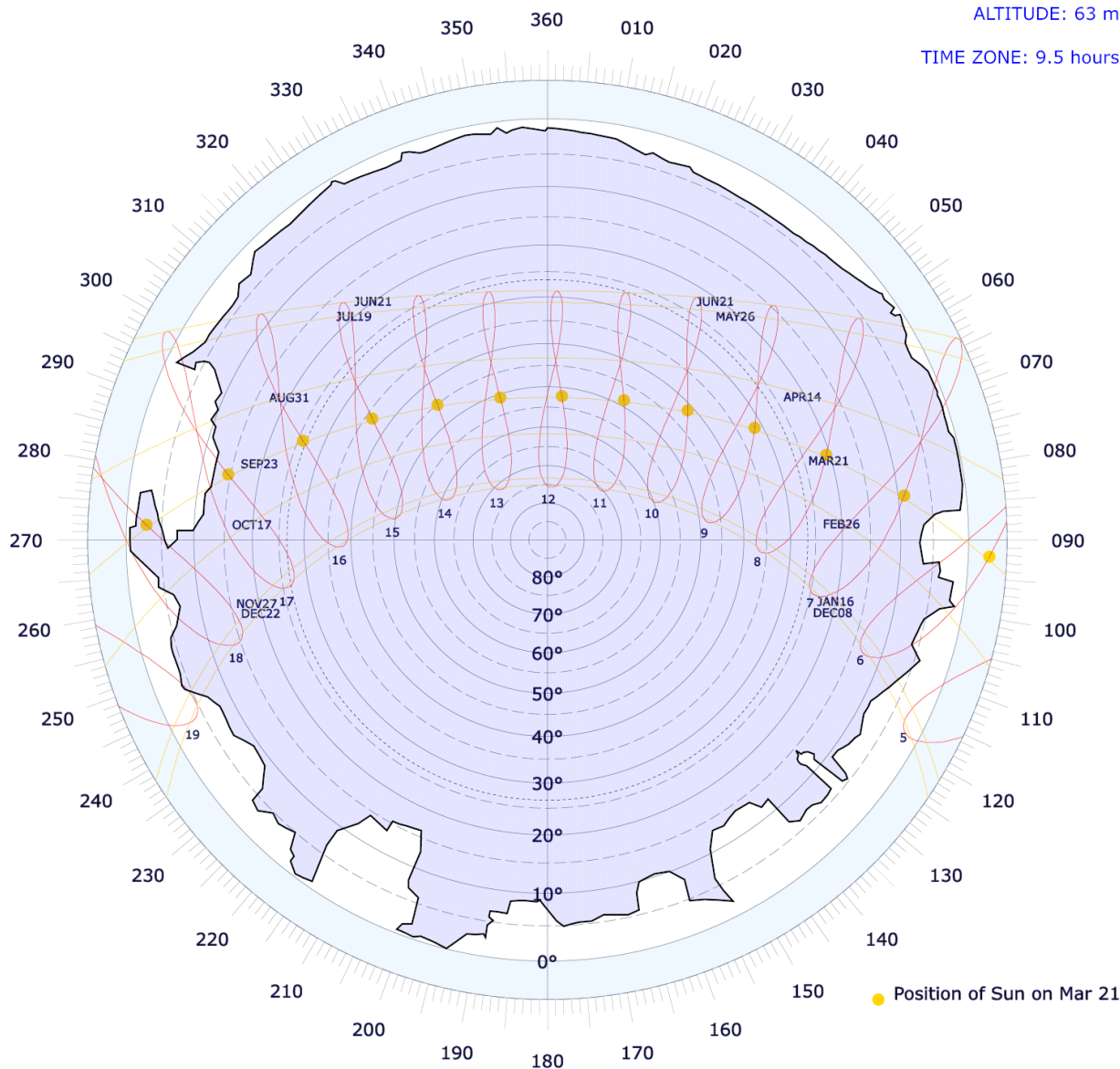
LATITUDE: -37.7473

DATE OF SURVEY: 13-04-2016

LONGITUDE: 140.7739

ALTITUDE: 63 m

TIME ZONE: 9.5 hours



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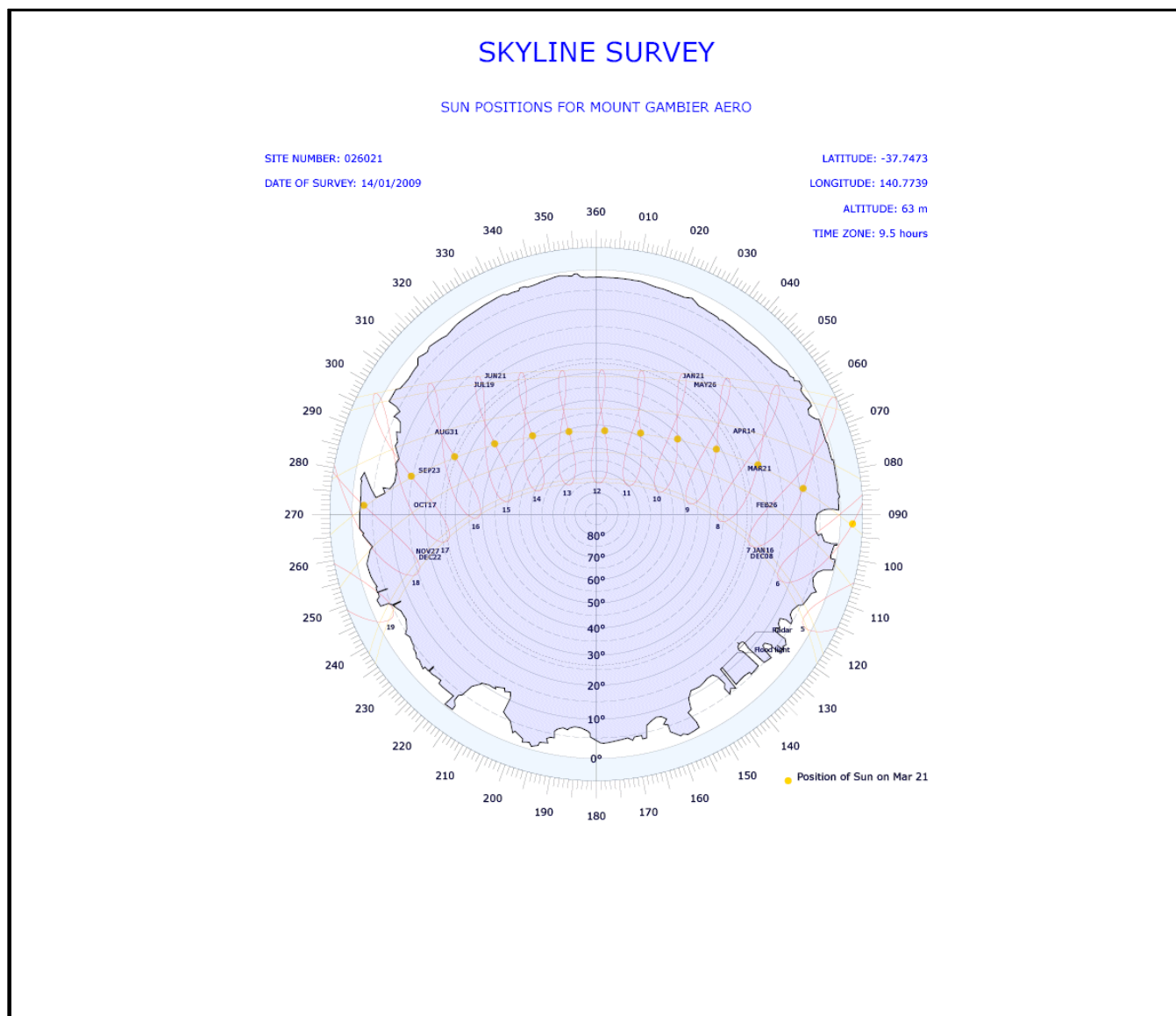
## Extended Climatological Station Metadata

### All History

<b>Station:</b>	MOUNT GAMBIER AERO	<b>Location:</b>	MOUNT GAMBIER AERO	<b>State:</b>	SA
<b>Bureau No.:</b>	026021	<b>WMO No.:</b>	94821	<b>Aviation ID:</b>	YMTG
<b>Latitude:</b>	-37.7473	<b>Longitude:</b>	140.7739	<b>Opened:</b>	01 Jan 1941
		<b>Elevation:</b>	63 m	<b>Barometer Elev:</b>	69 m
				<b>Current Status:</b>	Still open
				<b>Metadata compiled:</b>	28 JUL 2025

## Skyline Diagram

### 14/01/2009



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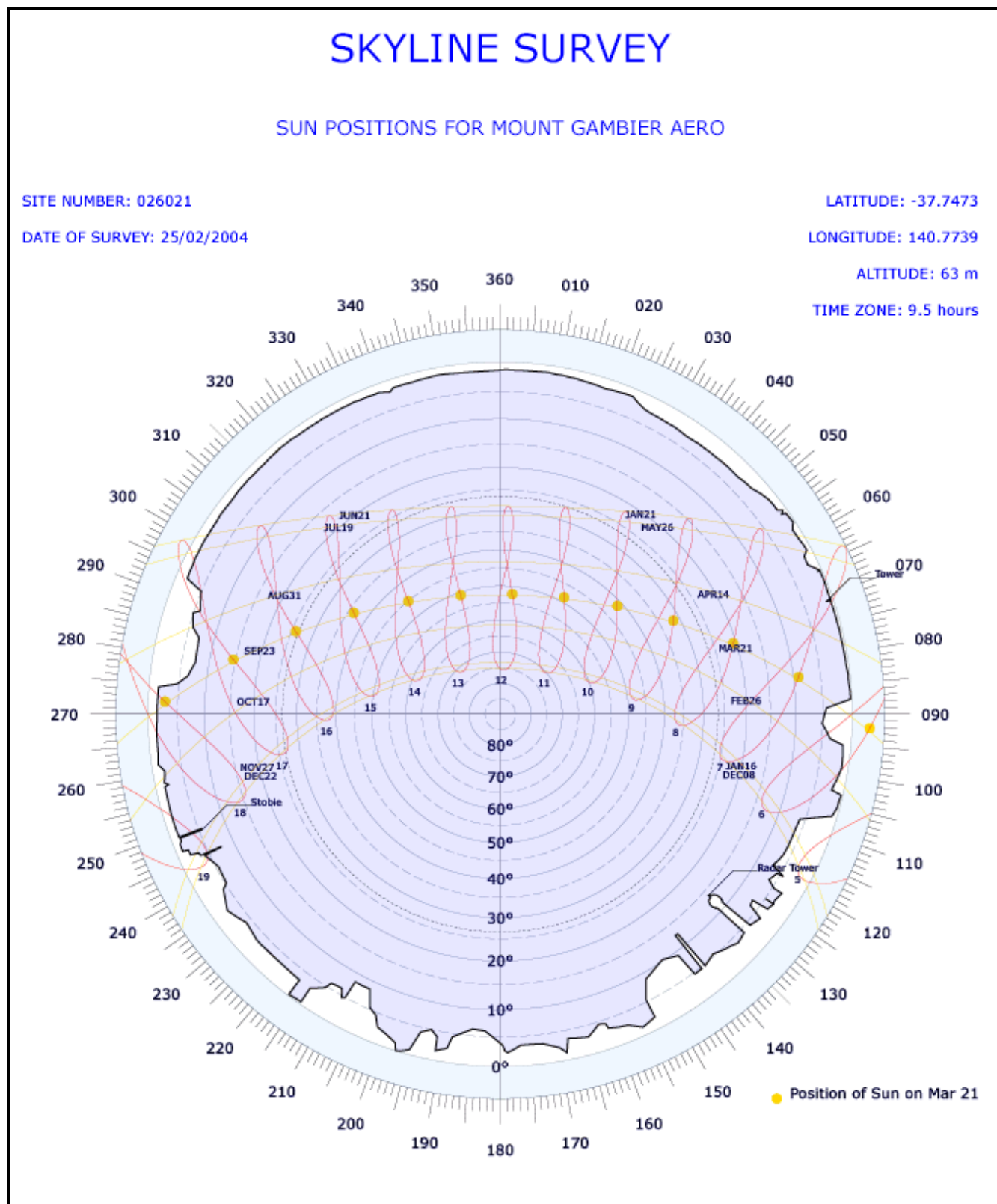
## Extended Climatological Station Metadata

All History

<b>Station:</b>	MOUNT GAMBIER AERO	<b>Location:</b>	MOUNT GAMBIER AERO	<b>State:</b>	SA
<b>Bureau No.:</b>	026021	<b>WMO No.:</b>	94821	<b>Aviation ID:</b>	YMTG
<b>Latitude:</b>	-37.7473	<b>Longitude:</b>	140.7739	<b>Opened:</b>	01 Jan 1941
		<b>Elevation:</b>	63 m	<b>Barometer Elev:</b>	69 m
				<b>Current Status:</b>	Still open
				<b>Metadata compiled:</b>	28 JUL 2025

### Skyline Diagram

25/02/2004



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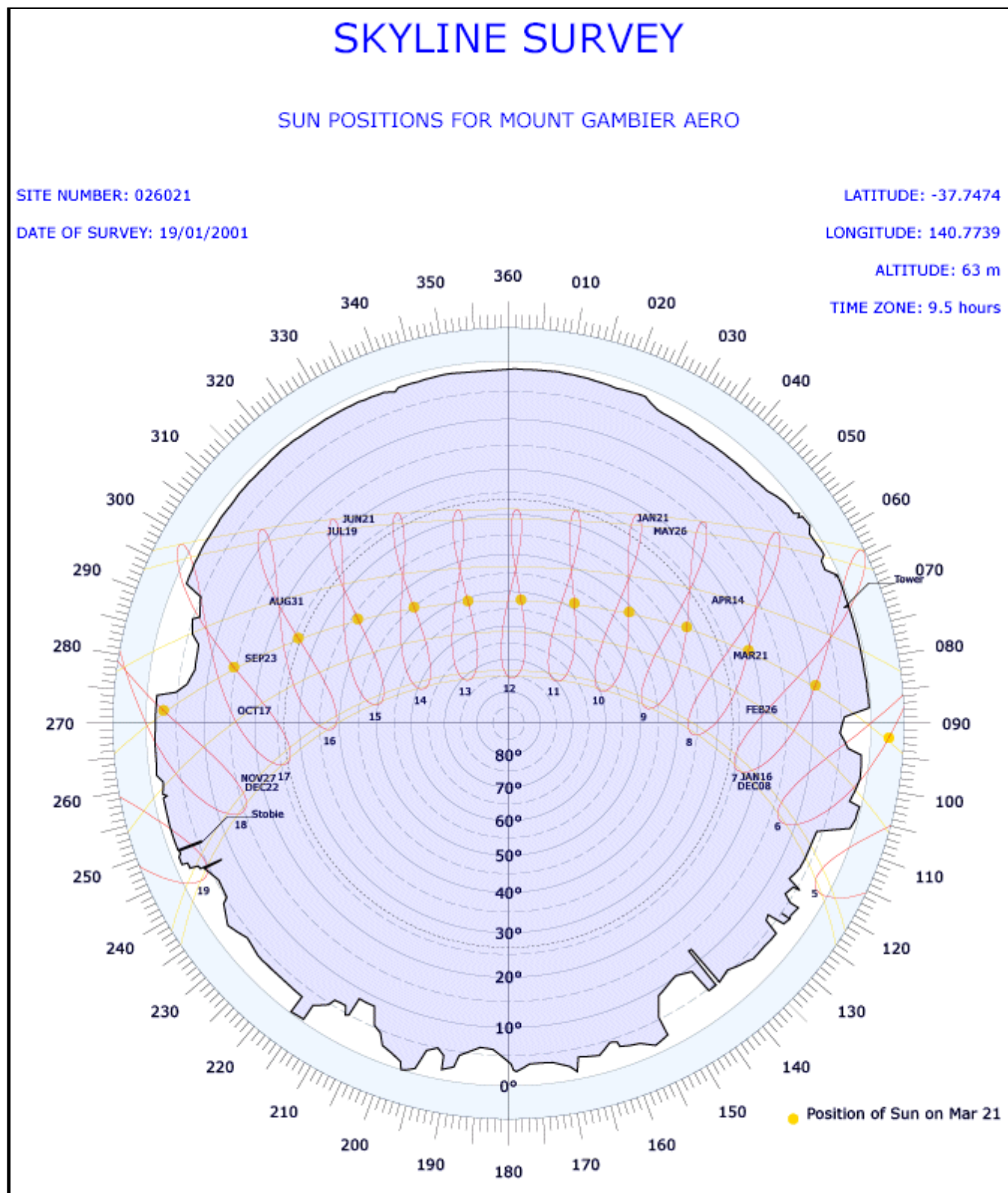
## Extended Climatological Station Metadata

All History

<b>Station:</b>	MOUNT GAMBIER AERO	<b>Location:</b>	MOUNT GAMBIER AERO	<b>State:</b>	SA
<b>Bureau No.:</b>	026021	<b>WMO No.:</b>	94821	<b>Aviation ID:</b>	YMTG
<b>Latitude:</b>	-37.7473	<b>Longitude:</b>	140.7739	<b>Opened:</b>	01 Jan 1941
		<b>Elevation:</b>	63 m	<b>Barometer Elev:</b>	69 m
				<b>Current Status:</b>	Still open
				<b>Metadata compiled:</b>	28 JUL 2025

### Skyline Diagram

19/01/2001



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## Extended Climatological Station Metadata

All History

<b>Station:</b> MOUNT GAMBIER AERO			<b>Location:</b> MOUNT GAMBIER AERO			<b>State:</b> SA			
<b>Bureau No.:</b> 026021		<b>WMO No.:</b> 94821		<b>Aviation ID:</b> YMTG		<b>Opened:</b> 01 Jan 1941		<b>Current Status:</b> Still open	
<b>Latitude:</b> -37.7473		<b>Longitude:</b> 140.7739		<b>Elevation:</b> 63 m		<b>Barometer Elev:</b> 69 m		<b>Metadata compiled:</b> 28 JUL 2025	

### Station Observation Program Summary (Surface Observations) from 18/08/1941 to 18/08/1997

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	Y	Y

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

### Station Observation Program Summary (Surface Observations) from 18/08/1997 to 15/08/2003

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	-	-	-	-	-	-	-	-

### Station Observation Program Summary (Surface Observations) from 15/08/2003 to 29/07/2010

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 29/07/2010 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

<b>Station:</b> MOUNT GAMBIER AERO			<b>Location:</b> MOUNT GAMBIER AERO			<b>State:</b> SA			
<b>Bureau No.:</b> 026021		<b>WMO No.:</b> 94821		<b>Aviation ID:</b> YMTG		<b>Opened:</b> 01 Jan 1941		<b>Current Status:</b> Still open	
<b>Latitude:</b> -37.7473		<b>Longitude:</b> 140.7739		<b>Elevation:</b> 63 m		<b>Barometer Elev:</b> 69 m		<b>Metadata compiled:</b> 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 18/08/1997 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	-	-	-	-	-	-	-

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

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## Extended Climatological Station Metadata

All History

<b>Station:</b>	MOUNT GAMBIER AERO			<b>Location:</b>	MOUNT GAMBIER AERO			<b>State:</b>	SA
<b>Bureau No.:</b>	026021	<b>WMO No.:</b>	94821	<b>Aviation ID:</b>	YMTG	<b>Opened:</b>	01 Jan 1941	<b>Current Status:</b>	Still open
<b>Latitude:</b>	-37.7473	<b>Longitude:</b>	140.7739	<b>Elevation:</b>	63 m	<b>Barometer Elev:</b>	69 m	<b>Metadata compiled:</b>	28 JUL 2025

### Upper Air Routine 01/07/2010 to 29/07/2010

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	-	-	-	-	-	-	-
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 29/07/2010 to 01/08/2012

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

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

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

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## Extended Climatological Station Metadata

All History

<b>Station:</b>	MOUNT GAMBIER AERO		<b>Location:</b>	MOUNT GAMBIER AERO		<b>State:</b>	SA
<b>Bureau No.:</b>	026021	<b>WMO No.:</b>	94821	<b>Aviation ID:</b>	YMTG	<b>Opened:</b>	01 Jan 1941
<b>Latitude:</b>	-37.7473	<b>Longitude:</b>	140.7739	<b>Elevation:</b>	63 m	<b>Barometer Elev:</b>	69 m
<b>Current Status:</b>							Still open
<b>Metadata compiled:</b>							28 JUL 2025

## Station Equipment History

### Equipment Install/Remove

#### Cloud Height

29/MAY/2009 INSTALL Ceilometer (Type Vaisala CT25K S/N - V01403) Surface Observations Holdings  
15/AUG/2003 INSTALL Ceilometer (Type Vaisala CT25K S/N - Y06505) Surface Observations  
01/JUN/2009 REMOVE Ceilometer (Type Vaisala CT25K S/N - V01403) Surface Observations Holdings  
24/FEB/2016 REPLACE Ceilometer (Now Vaisala CL31 S/N - L0340299) Surface Observations  
23/JUN/2021 REPLACE Ceilometer (Now Vaisala CL31 S/N - P4040798) Surface Observations  
01/JUN/2009 REPLACE Ceilometer (Now Vaisala CT25K S/N - V01403) Surface Observations  
04/JUL/2007 REPLACE Ceilometer (Now Vaisala CT25K S/N - X11504) Surface Observations  
03/DEC/2004 REPLACE Ceilometer (Now Vaisala CT25K S/N - Y15202) Surface Observations  
14/FEB/1989 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - CBM5145) Surface Observations  
21/NOV/2012 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - CBM5145) Surface Observations

#### Humidity

27/OCT/2016 INSTALL Humidity Probe (Type Vaisala HMP45D S/N - V0720019) Surface Observations  
19/JAN/2017 REPLACE Humidity Probe (Now Vaisala HMP45DX S/N - A3140010) Surface Observations  
01/JAN/1955 INSTALL Hygrograph (Type Hair Hygrograph S/N - Unknown) Surface Observations  
05/JUL/1993 REMOVE Hygrograph (Type Hair Hygrograph S/N - Unknown) Surface Observations

#### Pressure Trend

01/JAN/1948 INSTALL Barograph (Type Weekly S/N - CBM62) Surface Observations  
05/APR/2017 INSTALL Barograph (Type Weekly S/N - CBM62) Surface Observations Holdings  
05/APR/2017 REMOVE Barograph (Type Weekly S/N - CBM62) Surface Observations

#### Lightning (No Electronic History)

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

#### Magnetic Bearing (No Electronic History)

#### Wind Direction

14/AUG/2003 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 80254) Surface Observations  
05/JUL/1993 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - NONE) Surface Observations  
05/JUL/1993 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - Unknown) Infrastructure  
01/OCT/1968 INSTALL Wind Run Anemometer (Type Rimco S/N - CBM706) Surface Observations  
05/APR/2017 INSTALL Wind Run Anemometer (Type Rimco S/N - CBM706) Surface Observations Holdings  
05/APR/2017 REMOVE Wind Run Anemometer (Type Rimco S/N - CBM706) Surface Observations  
21/JAN/2021 REMOVE Wind Run Anemometer (Type Rimco S/N - CBM706) Surface Observations Holdings  
14/AUG/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 74038) Surface Observations  
29/SEP/1998 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 75063/75026) Surface Observations  
15/AUG/2003 REPLACE Mast Anemometer (Now Pivot, Standard 8m S/N - 221049-03) Infrastructure

#### Wet Bulb Temperature

05/JUL/1993 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations  
25/AUG/2009 INSTALL Temperature Probe - Wet Bulb (Type Rosemount ST2401 S/N - 0751) Surface Observations  
26/AUG/2009 INSTALL Temperature Probe - Wet Bulb (Type Rosemount ST2401 S/N - 0751) Surface Observations Holdings  
26/AUG/2009 REMOVE Temperature Probe - Wet Bulb (Type Rosemount ST2401 S/N - 0751) Surface Observations  
27/OCT/2016 REMOVE Temperature Probe - Wet Bulb (Type Rosemount ST2401 S/N - 0751) Surface Observations  
27/AUG/2009 REMOVE Temperature Probe - Wet Bulb (Type Rosemount ST2401 S/N - 0751) Surface Observations Holdings  
12/JUL/2000 REPLACE Temperature Probe - Wet Bulb (Now Rosemount S/N - NONE) Surface Observations  
27/AUG/2009 REPLACE Temperature Probe - Wet Bulb (Now Rosemount ST2401 S/N - 0751) Surface Observations

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<b>Current Status:</b>							Still open
<b>Metadata compiled:</b>							28 JUL 2025

## Station Equipment History (continued)

### Equipment Install/Remove(Continued)

18/AUG/1941 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 16010) Surface Observations  
20/JAN/2017 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - CBM3428) Surface Observations  
02/FEB/2006 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 16010) Surface Observations  
20/JAN/2009 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - CBM3428) Surface Observations  
30/MAR/2003 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M3037) Surface Observations  
17/JAN/2007 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M3037) Surface Observations

### Solar Radiation (Long Wave)

28/OCT/1998 INSTALL Pyrgeometer (Type Epply PIR S/N - 29077F3) Radiation  
04/MAR/2006 REMOVE Pyrgeometer (Type Epply PIR S/N - 29077F3) Radiation

### Spectral Radiation

28/OCT/1998 INSTALL Photometer Head (Type SPO2 Mk1 S/N - 1006) Radiation  
04/MAR/2006 REMOVE Photometer Head (Type SPO2 Mk1 S/N - 1006) Radiation

### Maximum Temperature

18/AUG/1941 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 17461) Surface Observations  
05/APR/2017 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 18804) Surface Observations Holdings  
05/APR/2017 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - 18804) Surface Observations  
21/JAN/2021 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - 18804) Surface Observations Holdings  
04/JUL/2008 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 18804) Surface Observations

### Soil Temperature 10cm

02/MAY/2016 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - 9566420) Surface Observations Holdings  
01/MAR/1994 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - 9725420) Surface Observations  
02/MAY/2016 REMOVE Thermometer, Soil, 10cm (Type Dobros S/N - 9566420) Surface Observations  
21/JAN/2021 REMOVE Thermometer, Soil, 10cm (Type Dobros S/N - 9566420) Surface Observations Holdings  
02/APR/2007 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - 9566420) Surface Observations

### Soil Temperature 20cm

02/MAY/2016 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - 0709784) Surface Observations Holdings  
01/MAR/1994 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - M4059) Surface Observations  
02/MAY/2016 REMOVE Thermometer, Soil, 20cm (Type Dobros S/N - 0709784) Surface Observations  
21/JAN/2021 REMOVE Thermometer, Soil, 20cm (Type Dobros S/N - 0709784) Surface Observations Holdings  
02/APR/2007 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 0709784) Surface Observations

### Soil Temperature 50cm

01/MAR/1994 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - M6601) Surface Observations  
02/MAY/2016 INSTALL Thermometer, Soil, 50cm (Type Unknown S/N - 9564474) Surface Observations Holdings  
02/MAY/2016 REMOVE Thermometer, Soil, 50cm (Type Unknown S/N - 9564474) Surface Observations  
21/JAN/2021 REMOVE Thermometer, Soil, 50cm (Type Unknown S/N - 9564474) Surface Observations Holdings  
30/MAY/2006 REPLACE Thermometer, Soil, 50cm (Now Amarol S/N - 9603284) Surface Observations  
16/NOV/2004 REPLACE Thermometer, Soil, 50cm (Now Amarol S/N - 9859567) Surface Observations  
01/JUN/2006 REPLACE Thermometer, Soil, 50cm (Now Dobros S/N - M6089) Surface Observations  
20/MAR/2013 REPLACE Thermometer, Soil, 50cm (Now Unknown S/N - 9564474) Surface Observations

### Snow Height (No Electronic History)

### Soil Temperature 100cm

01/MAR/1994 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - 9603292) Surface Observations  
02/MAY/2016 INSTALL Thermometer, Soil, 100cm (Type Unknown S/N - M6104) Surface Observations Holdings

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<b>Current Status:</b>							Still open
<b>Metadata compiled:</b>							28 JUL 2025

## Station Equipment History (continued)

### Equipment Install/Remove(Continued)

02/MAY/2016 REMOVE Thermometer, Soil, 100cm (Type Unknown S/N - M6104) Surface Observations  
21/JAN/2021 REMOVE Thermometer, Soil, 100cm (Type Unknown S/N - M6104) Surface Observations Holdings  
30/MAR/2003 REPLACE Thermometer, Soil, 100cm (Now Dobros S/N - 9564474) Surface Observations  
19/AUG/2007 REPLACE Thermometer, Soil, 100cm (Now Dobros S/N - 9603284) Surface Observations  
26/FEB/2008 REPLACE Thermometer, Soil, 100cm (Now Dobros S/N - CBM180) Surface Observations  
20/MAR/2013 REPLACE Thermometer, Soil, 100cm (Now Unknown S/N - M6104) Surface Observations

### Sunshine Hours

01/AUG/1966 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - 6588) Surface Observations  
02/MAY/2016 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - 6588) Surface Observations Holdings  
02/MAY/2016 REMOVE Sunshine Recorder (Type Campbell-Stokes S/N - 6588) Surface Observations  
21/JAN/2021 REMOVE Sunshine Recorder (Type Campbell-Stokes S/N - 6588) Surface Observations Holdings

### Wind Run

01/OCT/1968 INSTALL Wind Run Anemometer (Type Rimco S/N - CBM706) Surface Observations  
05/APR/2017 INSTALL Wind Run Anemometer (Type Rimco S/N - CBM706) Surface Observations Holdings  
05/APR/2017 REMOVE Wind Run Anemometer (Type Rimco S/N - CBM706) Surface Observations  
21/JAN/2021 REMOVE Wind Run Anemometer (Type Rimco S/N - CBM706) Surface Observations Holdings

### Minimum Temperature

18/AUG/1941 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - M5946) Surface Observations  
02/MAY/2016 INSTALL Thermometer, Alcohol, Min (Type WIKA S/N - 32844) Surface Observations Holdings  
18/JUL/2013 INSTALL Thermometer, Alcohol, Min (Type WIKA S/N - 32944) Surface Observations Holdings  
02/MAY/2016 REMOVE Thermometer, Alcohol, Min (Type WIKA S/N - 32844) Surface Observations  
21/JAN/2021 REMOVE Thermometer, Alcohol, Min (Type WIKA S/N - 32844) Surface Observations Holdings  
21/JAN/2021 REMOVE Thermometer, Alcohol, Min (Type WIKA S/N - 32944) Surface Observations Holdings  
09/MAY/2002 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - M6523) Surface Observations  
30/MAR/2003 REPLACE Thermometer, Alcohol, Min (Now WIKA S/N - 32844) Surface Observations

### Terrestrial Minimum Temperature

02/MAY/2016 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - M1668) Surface Observations Holdings  
01/SEP/1970 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - M6523) Surface Observations  
01/JUL/2012 INSTALL Thermometer, Terrestrial, Min (Type WIKA S/N - 30403) Surface Observations Holdings  
02/MAY/2016 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - M1668) Surface Observations  
21/JAN/2021 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - M1668) Surface Observations Holdings  
21/JAN/2021 REMOVE Thermometer, Terrestrial, Min (Type WIKA S/N - 30403) Surface Observations Holdings  
10/AUG/2007 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19042) Surface Observations  
24/DEC/2008 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19042) Surface Observations  
09/MAY/2002 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 20765) Surface Observations  
09/DEC/2002 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 21854) Surface Observations  
28/JAN/2003 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 21926) Surface Observations  
19/JAN/2006 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 23258) Surface Observations  
24/APR/2005 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 23343) Surface Observations  
01/JUL/2012 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M1668) Surface Observations  
20/SEP/2007 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M3834) Surface Observations  
06/NOV/2009 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 25963) Surface Observations  
18/JAN/2010 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 30403) Surface Observations

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<b>Current Status:</b>							Still open
<b>Metadata compiled:</b>							28 JUL 2025

## Station Equipment History (continued)

### Equipment Install/Remove(Continued)

#### Visibility

19/JAN/2004 INSTALL Visibility Meter (Type Vaisala FD12 S/N - Y15302) Surface Observations  
23/FEB/2016 REPLACE Visibility Meter (Now Vaisala FS11 S/N - L3520449) Surface Observations

#### Soil Temperature 5cm

02/MAY/2016 INSTALL Thermometer, Soil, 5cm (Type Unknown S/N - 0709784) Surface Observations Holdings  
09/SEP/2004 INSTALL Thermometer, Soil, 5cm (Type Unknown S/N - 9566469) Surface Observations  
02/MAY/2016 REMOVE Thermometer, Soil, 5cm (Type Unknown S/N - 0709784) Surface Observations  
21/JAN/2021 REMOVE Thermometer, Soil, 5cm (Type Unknown S/N - 0709784) Surface Observations Holdings  
08/MAR/2011 REPLACE Thermometer, Soil, 5cm (Now Unknown S/N - 0709784) Surface Observations

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

#### Electrical Conductivity (No Electronic History)

#### Oxygen Content (No Electronic History)

#### RF Reflectivity

01/FEB/1964 INSTALL Radar (Type WF2 S/N - Unknown) Upper Air  
01/JUL/1966 INSTALL Radar (Type WF44 S/N - P0002) Upper Air  
01/JUL/1966 INSTALL Radar (Type WF44 S/N - P0002) WeatherWatch  
03/FEB/2004 INSTALL Radar Interface (Type BOM S/N - Unknown) WeatherWatch  
16/OCT/2014 INSTALL Radar Safety System (RSS) (Type RSS (2502C/8502S) S/N - 6003-02) WeatherWatch  
03/FEB/2004 INSTALL Radar Spares (Type WF100-6C S/N - Unknown) Upper Air Holdings  
30/JUN/2016 INSTALL Radar Spares (Type WF100-6C S/N - Unknown) WeatherWatch Holdings  
01/JUL/1966 INSTALL Radar Tower (Type Lattice WF44 - 18 ft S/N - Unknown) Infrastructure  
01/JUL/1966 REMOVE Radar (Type WF2 S/N - Unknown) Upper Air  
30/JUN/2016 REMOVE Radar Spares (Type WF100-6C S/N - Unknown) Upper Air Holdings  
03/FEB/2004 REPLACE Radar (Now WF100-6C S/N - 039-000060) Upper Air  
03/FEB/2004 REPLACE Radar (Now WF100-6C S/N - 039-000060) WeatherWatch  
03/FEB/2004 REPLACE Radar Tower (Now Cylindrical WF100 - 15.75 m S/N - Unknown) Infrastructure

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

#### Pressure

01/JUL/1951 INSTALL Barometer (Type Kew pattern mercury S/N - 1812/58(S)) Surface Observations  
05/JUL/1993 INSTALL Barometer (Type Vaisala PA11A S/N - 561171) Surface Observations  
05/JUL/1993 REMOVE Barometer (Type Kew pattern mercury S/N - 1812/58(S)) Surface Observations  
17/SEP/1997 REPLACE Barometer (Now Vaisala PA11A S/N - S1110003) Surface Observations  
21/JAN/2005 REPLACE Barometer (Now Vaisala PTB220B S/N - U0530011) Surface Observations  
22/JUL/2014 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - J3720012) Surface Observations

#### Evaporation

01/AUG/2017 INSTALL Equipment Reset Device (Type Watchdog Automatic Evaporation Pan S/N - NONE) Surface Observations  
01/JAN/1965 INSTALL Evaporation Pan (Type Class A S/N - NONE) Surface Observations  
05/APR/2017 INSTALL Evaporation Pan (Type Class A S/N - NONE) Surface Observations Holdings  
17/APR/2015 INSTALL Evaporation Pan (Type SS Class A Automatic S/N - NONE) Surface Observations  
05/APR/2017 REMOVE Evaporation Pan (Type Class A S/N - NONE) Surface Observations  
21/JAN/2021 REMOVE Evaporation Pan (Type Class A S/N - NONE) Surface Observations Holdings  
13/AUG/2008 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations  
13/AUG/2012 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations

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## Station Equipment History (continued)

### Equipment Install/Remove(Continued)

23/DEC/2016 REPLACE Evaporation Pan (Now SS Class A Automatic S/N - NONE) Surface Observations

#### Rainfall

01/JAN/1942 INSTALL Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity  
 30/DEC/1996 REMOVE Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity  
 01/SEP/1941 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations  
 05/APR/2017 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations Holdings  
 17/APR/2015 INSTALL Raingauge (Type HS-TB3/0.1/P S/N - 13-309) Surface Observations  
 05/JUL/1993 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Rainfall Intensity  
 05/JUL/1993 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Surface Observations  
 05/APR/2017 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations  
 21/JAN/2021 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations Holdings  
 17/FEB/1997 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96/162) Rainfall Intensity  
 17/FEB/1997 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96/162) Surface Observations  
 17/JAN/2007 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 084) Rainfall Intensity  
 17/JAN/2007 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 084) Surface Observations  
 23/FEB/2021 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 81184) Rainfall Intensity  
 23/FEB/2021 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 81184) Surface Observations  
 30/MAR/2003 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 81196) Rainfall Intensity  
 30/MAR/2003 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 81196) Surface Observations  
 02/FEB/2006 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 75513) Rainfall Intensity  
 02/FEB/2006 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 75513) Surface Observations  
 29/SEP/1999 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 76588) Rainfall Intensity  
 29/SEP/1999 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 76588) Surface Observations  
 21/JAN/2021 UNSHARE Raingauge (Type Rimco 7499 TBRG S/N - 81184) Rainfall Intensity

#### River Height (No Electronic History)

#### Solar Radiation

28/OCT/1998 INSTALL Global Pyranometer Mount (Type Carter Scott Mk1 S/N - Unknown) Radiation  
 25/AUG/1993 INSTALL Pyranometer (Type Kipp&Zonen CM11 S/N - 924029) Radiation  
 25/AUG/1993 INSTALL Pyranometer (Type Kipp&Zonen CM11 S/N - 924033) Radiation  
 04/MAR/2006 REMOVE Global Pyranometer Mount (Type Carter Scott Mk1 S/N - Unknown) Radiation  
 04/MAR/2006 REMOVE Pyranometer (Type Kipp&Zonen CM11 S/N - 924030) Radiation  
 04/MAR/2006 REMOVE Pyranometer (Type Kipp&Zonen CM11 S/N - 924033) Radiation  
 28/OCT/1998 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924030) Radiation  
 03/NOV/1999 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924030) Radiation  
 19/MAR/2002 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924030) Radiation  
 03/NOV/1999 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924033) Radiation  
 19/MAR/2002 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924033) Radiation

#### Solar Radiation (Direct)

28/OCT/1998 INSTALL Pyrheliometer (Type Kipp&Zonen CH1 S/N - 940060) Radiation  
 04/MAR/2006 REMOVE Pyrheliometer (Type Kipp&Zonen CH1 S/N - 940060) Radiation

#### Turbidity (No Electronic History)

#### Sea Water Level (No Electronic History)

#### Sea Water Temperature

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Extended Climatological Station Metadata  
All History

<b>Station:</b>	MOUNT GAMBIER AERO		<b>Location:</b>	MOUNT GAMBIER AERO		<b>State:</b>	SA
<b>Bureau No.:</b>	026021	<b>WMO No.:</b>	94821	<b>Aviation ID:</b>	YMTG	<b>Opened:</b>	01 Jan 1941
<b>Latitude:</b>	-37.7473	<b>Longitude:</b>	140.7739	<b>Elevation:</b>	63 m	<b>Current Status:</b>	Still open
						<b>Metadata compiled:</b>	28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

23/DEC/2016 INSTALL Temperature Probe - Water (Type TEMP CONTROLS TCBMP02A S/N - Unknown) Surface Observations

Wind Speed

14/AUG/2003 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 80254) Surface Observations  
05/JUL/1993 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - NONE) Surface Observations  
05/JUL/1993 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - Unknown) Infrastructure  
01/OCT/1968 INSTALL Wind Run Anemometer (Type Rimco S/N - CBM706) Surface Observations  
05/APR/2017 INSTALL Wind Run Anemometer (Type Rimco S/N - CBM706) Surface Observations Holdings  
05/APR/2017 REMOVE Wind Run Anemometer (Type Rimco S/N - CBM706) Surface Observations  
21/JAN/2021 REMOVE Wind Run Anemometer (Type Rimco S/N - CBM706) Surface Observations Holdings  
14/AUG/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 74038) Surface Observations  
29/SEP/1998 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 75063/75026) Surface Observations  
15/AUG/2003 REPLACE Mast Anemometer (Now Pivot, Standard 8m S/N - 221049-03) Infrastructure

Air Temperature

27/OCT/2016 INSTALL Humidity Probe (Type Vaisala HMP45D S/N - V0720019) Surface Observations  
19/JAN/2017 REPLACE Humidity Probe (Now Vaisala HMP45DX S/N - A3140010) Surface Observations  
05/JUL/1993 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - NONE) Surface Observations  
25/AUG/2009 INSTALL Temperature Probe - Dry Bulb (Type Rosemount ST2401 S/N - 0732) Surface Observations  
26/AUG/2009 INSTALL Temperature Probe - Dry Bulb (Type Rosemount ST2401 S/N - 0732) Surface Observations Holdings  
26/AUG/2009 REMOVE Temperature Probe - Dry Bulb (Type Rosemount ST2401 S/N - 0732) Surface Observations  
27/AUG/2009 REMOVE Temperature Probe - Dry Bulb (Type Rosemount ST2401 S/N - 0732) Surface Observations Holdings  
12/JUL/2000 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - NONE) Surface Observations  
27/AUG/2009 REPLACE Temperature Probe - Dry Bulb (Now Rosemount ST2401 S/N - 0732) Surface Observations  
01/JAN/1955 INSTALL Thermograph (Type Weekly S/N - Unknown) Surface Observations  
05/JUL/1993 REMOVE Thermograph (Type Weekly S/N - Unknown) Surface Observations  
18/AUG/1941 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - CBM3681) Surface Observations  
20/JAN/2017 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - CBM3636) Surface Observations  
30/MAR/2003 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - CBM3636) 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
05/JUL/2006 - 23/JUN/2021	Cloud Height	2
27/OCT/2016 - 21/JAN/2021	Humidity	1
26/JAN/2000 - 13/APR/2016	Pressure Trend	0
13/JAN/1994 - 12/AUG/2021	Wind Direction	4
13/JAN/1994 - 18/OCT/2016	Wet Bulb Temperature	1
28/OCT/1998 - 03/NOV/1999	Solar Radiation (Long Wave)	0
26/JAN/2000 - 13/APR/2016	Maximum Temperature	0
26/JAN/2000 - 13/APR/2016	Soil Temperature 10cm	0

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## Extended Climatological Station Metadata

All History

<b>Station:</b>	MOUNT GAMBIER AERO			<b>Location:</b>	MOUNT GAMBIER AERO			<b>State:</b>	SA
<b>Bureau No.:</b>	026021	<b>WMO No.:</b>	94821	<b>Aviation ID:</b>	YMTG	<b>Opened:</b>	01 Jan 1941	<b>Current Status:</b>	Still open
<b>Latitude:</b>	-37.7473	<b>Longitude:</b>	140.7739	<b>Elevation:</b>	63 m	<b>Barometer Elev:</b>	69 m	<b>Metadata compiled:</b>	28 JUL 2025

## Station Equipment History (continued)

Available Date Range	Element	Fail Field Performance Check
26/JAN/2000 - 13/APR/2016	Soil Temperature 20cm	0
26/JAN/2000 - 13/APR/2016	Soil Temperature 50cm	4
26/JAN/2000 - 13/APR/2016	Soil Temperature 100cm	4
26/JAN/2000 - 13/APR/2016	Wind Run	0
26/JAN/2000 - 13/APR/2016	Minimum Temperature	0
26/JAN/2000 - 13/APR/2016	Terrestrial Minimum Temperature	1
06/FEB/2004 - 12/AUG/2021	Visibility	4
21/JAN/2005 - 13/APR/2016	Soil Temperature 5cm	0
13/JUL/2005 - 23/FEB/2021	RF Reflectivity	0
17/SEP/1987 - 12/AUG/2021	Pressure	1
19/JAN/2001 - 21/JAN/2021	Evaporation	3
13/JAN/1994 - 12/AUG/2021	Rainfall	3
28/OCT/1998 - 03/NOV/1999	Solar Radiation	0
28/OCT/1998 - 03/NOV/1999	Solar Radiation (Direct)	0
13/JAN/1994 - 12/AUG/2021	Wind Speed	4
13/JAN/1994 - 12/AUG/2021	Air Temperature	1

### Station Detail Changes

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

01/FEB/2021 CLASSIFICATION AWS Priority 3 - Standard (SLP3-AWS)

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

30/JUL/2010 CLASSIFICATION Autosonde (RSA)

26/JUN/2002 CLASSIFICATION CLIMAT Stations (CLC)

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

09/MAY/2006 CLASSIFICATION Category B (TAF B) ENDED 05-03-2015

05/MAR/2015 CLASSIFICATION Category C (TAF C)

10/JAN/2011 CLASSIFICATION Critical (ASOSCRIT)

05/JUL/1993 CLASSIFICATION Fielden (FFD)

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

01/JUL/2018 CLASSIFICATION HQ EVAPORATION (HQEVAP)

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

27/SEP/2021 CLASSIFICATION Mastered in EAMS (EAMS)

01/JUL/2017 CLASSIFICATION Observing Operations Hub - Adelaide (OOH-A)

21/MAR/2016 CLASSIFICATION Processed by ASOS (PBA)

01/JUL/1998 CLASSIFICATION Rawinsonde Stations (RS) ENDED 30-07-2010

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

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

03/JAN/2017 CLASSIFICATION South Australia (1) (SA\_1)

10/JUN/2014 CLASSIFICATION Standard Aviation or Defence (AVSTD) ENDED 16-10-2020

09/AUG/2010 OBJECT Document/026021100809Coop Contract

21/JUL/2011 OBJECT Document/026021110721Coop\_Contract

15/APR/2015 OBJECT Document/026021150415\_ASOS\_Station\_Configuration\_Form

26/OCT/2016 OBJECT Document/026021161026\_ASOS\_Station\_Configuration\_Form

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Extended Climatological Station Metadata  
All History

<b>Station:</b>	MOUNT GAMBIER AERO		<b>Location:</b>	MOUNT GAMBIER AERO		<b>State:</b>	SA
<b>Bureau No.:</b>	026021	<b>WMO No.:</b>	94821	<b>Aviation ID:</b>	YMTG	<b>Opened:</b>	01 Jan 1941
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<b>Current Status:</b>							Still open
<b>Metadata compiled:</b>							28 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

04/MAY/2020 OBJECT Document/02602120200427\_eCOC\_E0732778  
29/APR/2003 OBJECT Document/026021Upgrade  
01/DEC/2003 OBJECT Document/026021Upgrade1  
18/JUL/2013 OBJECT Document/026021\_Coop\_Contract\_18072013\_JW  
31/JUL/2019 OBJECT Document/26021190731MBI  
20/AUG/2019 OBJECT Document/26021190731MBI  
26/AUG/2020 OBJECT Document/ACOM 6 month maintenance  
03/JAN/2017 OBJECT Document/ASBESTOS REGISTER  
01/MAR/2021 OBJECT Document/ATSO SUPPORT  
15/JAN/2021 OBJECT Document/ATSO SUPPORT  
20/JAN/2017 OBJECT Document/ATSO Support Mt Gambier  
14/FEB/2018 OBJECT Document/ATSO\_SUPPORT  
22/JUN/2018 OBJECT Document/ATSO\_SUPPORT  
16/OCT/2020 OBJECT Document/ATSO\_SUPPORT  
23/MAY/2019 OBJECT Document/ATSO\_SUPPORT  
03/OCT/2019 OBJECT Document/ATSO\_SUPPORT  
01/AUG/2019 OBJECT Document/ATSO\_SUPPORT  
13/NOV/2017 OBJECT Document/ATSO\_SUPPORT  
07/DEC/2017 OBJECT Document/ATSO\_SUPPORT  
21/FEB/2020 OBJECT Document/ATSO\_SUPPORT  
19/FEB/2020 OBJECT Document/ATSO\_SUPPORT  
29/APR/2020 OBJECT Document/ATSO\_SUPPORT  
27/AUG/2020 OBJECT Document/ATSO\_SUPPORT  
29/APR/2021 OBJECT Document/ATSO\_SUPPORT  
24/AUG/2021 OBJECT Document/ATSO\_SUPPORT  
26/NOV/2019 OBJECT Document/ATSO\_SUPPORT  
23/JAN/2020 OBJECT Document/ATSO\_SUPPORT  
19/FEB/2020 OBJECT Document/ATSO\_Safety Relief Valve certificate  
16/AUG/2018 OBJECT Document/AUTOSONDE MAINTENANCE CHECKSHEET  
07/FEB/2019 OBJECT Document/AUTOSONDE MAINTENANCE CHECKSHEET  
28/NOV/2018 OBJECT Document/AUTOSONDE MAINTENANCE CHECKSHEET  
19/FEB/2020 OBJECT Document/AUTOSONDE MAINTENANCE CHECKSHEET  
01/JUN/2011 OBJECT Document/AWS SITE AUDIT  
29/APR/1993 OBJECT Document/Bar coefficients  
28/AUG/2014 OBJECT Document/CEILOMETER STATUS  
23/FEB/2016 OBJECT Document/CEILOMETER STATUS  
18/OCT/2016 OBJECT Document/CEILOMETER STATUS  
01/JUN/2011 OBJECT Document/CEILOMETER STATUS  
08/AUG/2012 OBJECT Document/CEILOMETER STATUS  
23/SEP/2015 OBJECT Document/CEILOMETER STATUS  
23/JUN/2021 OBJECT Document/CEILOMETER STATUS  
02/NOV/2017 OBJECT Document/CEILOMETER STATUS  
15/APR/2015 OBJECT Document/CEILOMETER STATUS

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## Extended Climatological Station Metadata

All History

<b>Station:</b>	MOUNT GAMBIER AERO		<b>Location:</b>	MOUNT GAMBIER AERO		<b>State:</b>	SA
<b>Bureau No.:</b>	026021	<b>WMO No.:</b>	94821	<b>Aviation ID:</b>	YMTG	<b>Opened:</b>	01 Jan 1941
<b>Latitude:</b>	-37.7473	<b>Longitude:</b>	140.7739	<b>Elevation:</b>	63 m	<b>Barometer Elev:</b>	69 m
<b>Current Status:</b>							Still open
<b>Metadata compiled:</b>							28 JUL 2025

## Station Equipment History (continued)

### Station Detail Changes(Continued)

13/APR/2016 OBJECT Document/CEILOMETER STATUS  
22/JUN/2021 OBJECT Document/Ceilo Install 22062021  
01/APR/2006 OBJECT Document/Diurnal Variation  
11/APR/2018 OBJECT Document/GENSET MAINTENANCE RECORD  
20/OCT/2016 OBJECT Document/RSS VALIDATION RECORD  
22/SEP/2020 OBJECT Document/RSS VALIDATION RECORD  
01/AUG/2012 OBJECT Document/SA\_Sonde\_Program\_02082012  
01/JUL/2009 OBJECT Document/SITE LEASE  
14/JAN/2009 OBJECT Document/SKYLINE DATA  
25/FEB/2004 OBJECT Document/SKYLINE DATA  
13/APR/2016 OBJECT Document/SKYLINE DATA  
14/OCT/2020 OBJECT Document/SKYLINE DATA  
13/JAN/2010 OBJECT Document/SKYLINE DATA - ANEMOMETER  
13/APR/2016 OBJECT Document/SKYLINE DATA - ANEMOMETER  
21/JAN/2021 OBJECT Document/SKYLINE DATA - ANEMOMETER  
28/SEP/1999 OBJECT Document/Ttheodolite\_Recon\_Note\_CMO-52\_25031999  
28/AUG/2014 OBJECT Document/VISIBILITY METER STATUS  
23/FEB/2016 OBJECT Document/VISIBILITY METER STATUS  
18/OCT/2016 OBJECT Document/VISIBILITY METER STATUS  
01/JUN/2011 OBJECT Document/VISIBILITY METER STATUS  
08/AUG/2012 OBJECT Document/VISIBILITY METER STATUS  
23/SEP/2015 OBJECT Document/VISIBILITY METER STATUS  
02/NOV/2017 OBJECT Document/VISIBILITY METER STATUS  
15/APR/2015 OBJECT Document/VISIBILITY METER STATUS  
13/APR/2016 OBJECT Document/VISIBILITY METER STATUS  
19/FEB/2020 OBJECT Document/YMTG ACOM maintenance  
20/JUL/2017 OBJECT Document/YMTG ATSO Duties Checklist  
30/AUG/2017 OBJECT Document/YMTG\_ATSO\_Duties\_Checklist\_30082017  
14/DEC/2020 OBJECT Document/YMTG\_ATSO\_Support  
01/MAY/2017 OBJECT Document/YMTG\_ATSO\_Support\_Visit\_01052017  
08/MAY/2017 OBJECT Document/YMTG\_ATSO\_Support\_Visit\_08052017  
20/MAR/2017 OBJECT Document/YMTG\_ATSO\_Support\_Visit\_20032017  
20/JUL/2017 OBJECT Document/YMTG\_ATSO\_Support\_Visit\_20170720  
24/OCT/2017 OBJECT Document/YMTG\_ATSO\_Support\_Visit\_20171024  
03/NOV/2017 OBJECT Document/YMTG\_ATSO\_Support\_Visit\_20171103  
30/AUG/2017 OBJECT Document/YMTG\_ATSO\_Support\_Vist\_30082017  
21/FEB/2011 OBJECT Document/metconsole\_stationconfig\_026021110221  
01/JAN/1941 STATION - (nondb seeding) Opened  
01/JAN/1941 STATION - (nondb seeding) aero\_ht Changed to 64.6  
01/JAN/1941 STATION - (nondb seeding) bar\_ht Changed to 69  
01/JAN/1941 STATION - (nondb seeding) bar\_ht\_deriv Changed to SURVEY  
01/JAN/1941 STATION - (nondb seeding) latitude Changed to -37.7472  
01/JAN/1941 STATION - (nondb seeding) longitude Changed to 140.7861

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Extended Climatological Station Metadata  
All History

<b>Station:</b>	MOUNT GAMBIER AERO		<b>Location:</b>	MOUNT GAMBIER AERO		<b>State:</b>	SA
<b>Bureau No.:</b>	026021	<b>WMO No.:</b>	94821	<b>Aviation ID:</b>	YMTG	<b>Opened:</b>	01 Jan 1941
<b>Latitude:</b>	-37.7473	<b>Longitude:</b>	140.7739	<b>Elevation:</b>	63 m	<b>Barometer Elev:</b>	69 m
<b>Current Status:</b>							Still open
<b>Metadata compiled:</b>							28 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

- 01/JAN/1941 STATION - (nondb seeding) name Changed to MOUNT GAMBIER AERO
- 01/JAN/1941 STATION - (nondb seeding) stn\_ht Changed to 63
- 01/JAN/1941 STATION - (nondb seeding) stn\_ht\_deriv Changed to SURVEY
- 01/JAN/1941 STATION - (nondb seeding) wmo\_num Changed to 94821
- 01/JAN/1941 STATION aero\_ht\_deriv Changed to SURVEY
- 01/JAN/1941 STATION aviation\_id Changed to YMTG
- 06/FEB/2002 STATION latitude Changed to -37.74727Position determined using WGS 84.
- 06/FEB/2002 STATION latlon\_deriv Changed to GPS
- 06/FEB/2002 STATION latlon\_error Changed to 4.1
- 06/FEB/2002 STATION longitude Changed to 140.77393Position determined using WGS 84.
- 27/JUL/1995 STATION lu\_0\_100m Changed to Open farmland, grassland or tundra
- 27/JUL/1995 STATION lu\_100m\_1km Changed to Airport
- 27/JUL/1995 STATION lu\_1km\_10km Changed to City area, buildings > 10 metres (3 storey)
- 27/JUL/1995 STATION soil\_type Changed to sand
- 31/MAR/2003 STATION surface\_type Changed to fully covered by grass
- 27/JUL/1995 STATION surface\_type Changed to fully covered by grass
- 19/JAN/2001 STATION surface\_type Changed to mostly covered by grass

System Changes

- 19/AUG/1997 SYSTEM Communications Commenced
- 23/NOV/2011 SYSTEM Communications Holdings Commenced
- 14/FEB/2017 SYSTEM Computing Holdings Commenced
- 18/AUG/1941 SYSTEM Infrastructure Commenced
- 05/JUL/1993 SYSTEM Monitoring and Display Commenced
- 23/NOV/2011 SYSTEM Monitoring and Display Holdings Commenced
- 04/MAR/2006 SYSTEM Radiation Ceased
- 25/AUG/1993 SYSTEM Radiation Commenced
- 21/JAN/2021 SYSTEM Rainfall Intensity Ceased
- 01/JAN/1942 SYSTEM Rainfall Intensity Commenced
- 31/MAR/2016 SYSTEM Reference Standards Ceased
- 24/DEC/2009 SYSTEM Reference Standards Commenced
- 18/AUG/1941 SYSTEM Surface Observations Commenced
- 16/JUL/1998 SYSTEM Surface Observations Holdings Commenced
- 13/SEP/2005 SYSTEM Tools and Test Equipment Holdings Commenced
- 01/FEB/1964 SYSTEM Upper Air Commenced
- 01/FEB/1964 SYSTEM Upper Air Holdings Commenced
- 01/JAN/1966 SYSTEM WeatherWatch Commenced
- 30/JUN/2016 SYSTEM WeatherWatch Holdings Commenced

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## Notes on these metadata

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

### Reliability of the metadata

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

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

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

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

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

### Station Number

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

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

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## Notes on these metadata

### Network Classification

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

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

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## Notes on these metadata

### Network Classification Continued....

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

### Station Purpose

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

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

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

### Station Observation Program Summary

#### Surface Observations

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

Set a)

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

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## Notes on these metadata

### Surface observations continued....

#### Set b)

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

### Current Station Equipment Summary

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

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

### Station Equipment History

#### Equipment Install/Remove

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

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

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

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

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

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

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## Notes on these metadata

### Calibration

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

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

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

### Station Detail Changes

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

#### - STATION

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

#### Station position

##### - Latitude and longitude

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

##### - Height

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

Heights which may appear in these metadata are:

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

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## Notes on these metadata

### - Land Use

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

#### Defined Land use Types.

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

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

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

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

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

#### Surface Type (At Enclosure).

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

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