



Basic Climatological Station Metadata
Current status

Metadata compiled: 26 JUL 2025

Station: GILES METEOROLOGICAL OFFICE

Bureau of Meteorology station number: 013017
Bureau of Meteorology district name: North East
State: WA

World Meteorological Organization number: 94461
Identification: YGLS

Network Classification: CLIMAT Stations, CLIMAT TEMP Stations, GCOS
Surface Network, GCOS Upper Air Network, National
Benchmark Network for Agrometeorology, Regional Basic
Synoptic Network

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



Current Station Location				
Latitude	Decimal	-25.0341	Hour Min Sec	25°2'3"S
Longitude	Decimal	128.3010	Hour Min Sec	128°18'4"E
Station Height	598 m	Barometer Height	599 m	
Method of station geographic positioning			GPS	

Year opened: 1956
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: GILES METEOROLOGICAL OFFICE		Location: GILES METEOROLOGICAL OFFICE		State: WA
Bureau No.: 013017	WMO No.: 94461	Aviation ID: YGLS	Opened: 01 Aug 1956	Current Status: Still open
Latitude: -25.0341	Longitude: 128.3010	Elevation: 598 m	Barometer Elev: 599 m	Metadata compiled: 26 JUL 2025

Observation summary

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



DAILY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
EVAPORATION	SEP 1967	MAR 2025	99.8	41	0
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	JUL 1968	JUN 2011	98.8	175	0
GROUND MINIMUM TEMPERATURE	AUG 1956	NOV 2020	98.1	279	5
MAXIMUM AIR TEMPERATURE	AUG 1956	JUN 2025	99.8	27	0
MAXIMUM WIND GUST SPEED	SEP 1956	JUN 2025	98.8	280	0
SUNSHINE HOURS	OCT 1956	SEP 2019	99.6	71	0
WIND RUN ABOVE 10 FEET	AUG 1956	JUN 2025	61.2	340	309
WIND RUN BELOW 10 FEET	JUL 1968	MAR 2025	98.0	131	9
RAINFALL	AUG 1956	JUL 2025	100	N/A	N/A

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HOURLY DATA HOLDINGS - from 1 to 24 observations per day

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
AIR TEMPERATURE	AUG 1956	JUN 2025	99.4	11.2	1	0
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
DEW POINT	AUG 1956	JUN 2025	99.4	11.2	2	0
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
MEAN SEA LEVEL PRESSURE	AUG 1956	JUN 2025	99.2	11.2	36	1
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
PRECIPITATION SINCE LAST OBS	JAN 1960	AUG 1999	81.3	5.9	2402	3
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
SOIL TEMPERATURE - 10cm	AUG 1959	NOV 2020	77.9	4.5	139	154
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
TOTAL CLOUD AMOUNT	AUG 1956	JUN 2025	95.2	6.5	743	0
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
WIND SPEED	AUG 1956	JUN 2025	99.3	11.3	23	0
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
UPPER AIR TEMPERATURE	OCT 1956	JUN 2025	87.3	1.4	771	6
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
UPPER AIR WIND SPEED	SEP 1956	JUN 2025	93.0	3.6	123	19
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	OCT 1956	AUG 2017	89.8	673	52

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	MAY 2003	JUL 2025	98.6	1420.2	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	NOV 1992	JUL 2025	99.9	47.9	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	Sep 2002	Dec 2018	N/A	2.0	407	6
Wind, temperature and pressure flights	Jul 1991	Mar 2019	N/A	1.1	430	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

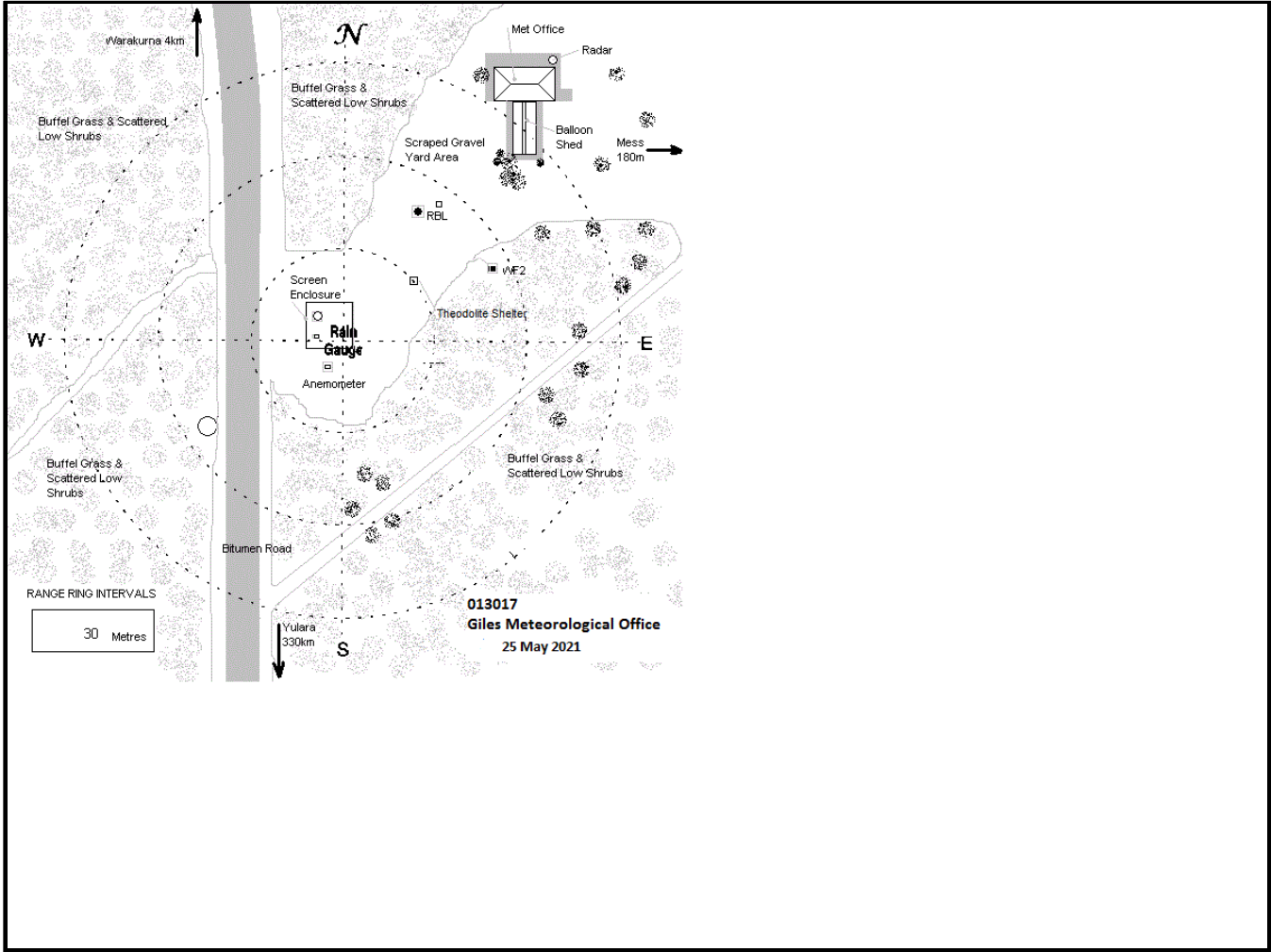
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Extended Climatological Station Metadata
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Instrument Location and Surrounding Features
25/05/2021(most recent)



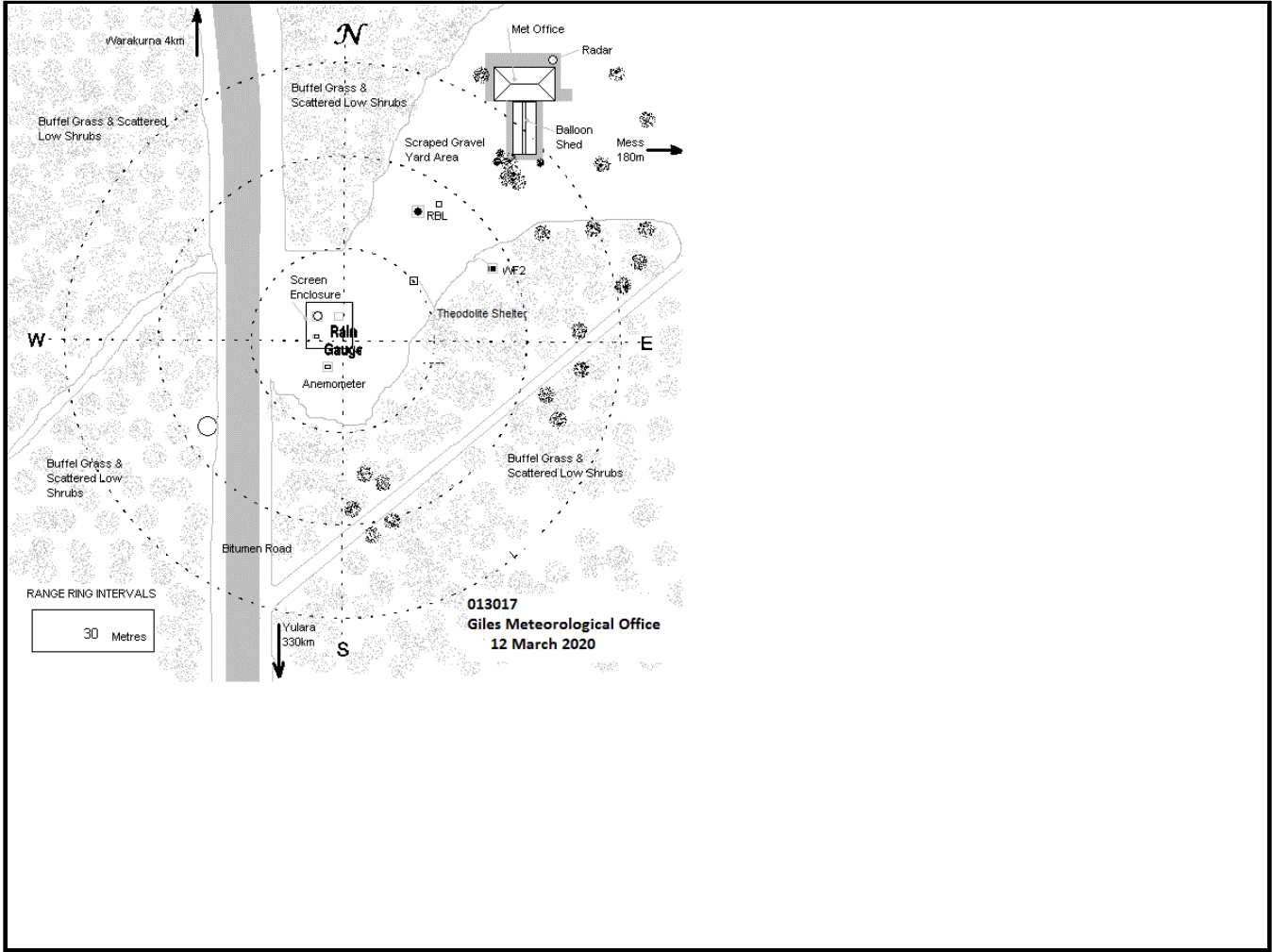
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Instrument Location and Surrounding Features
12/03/2020



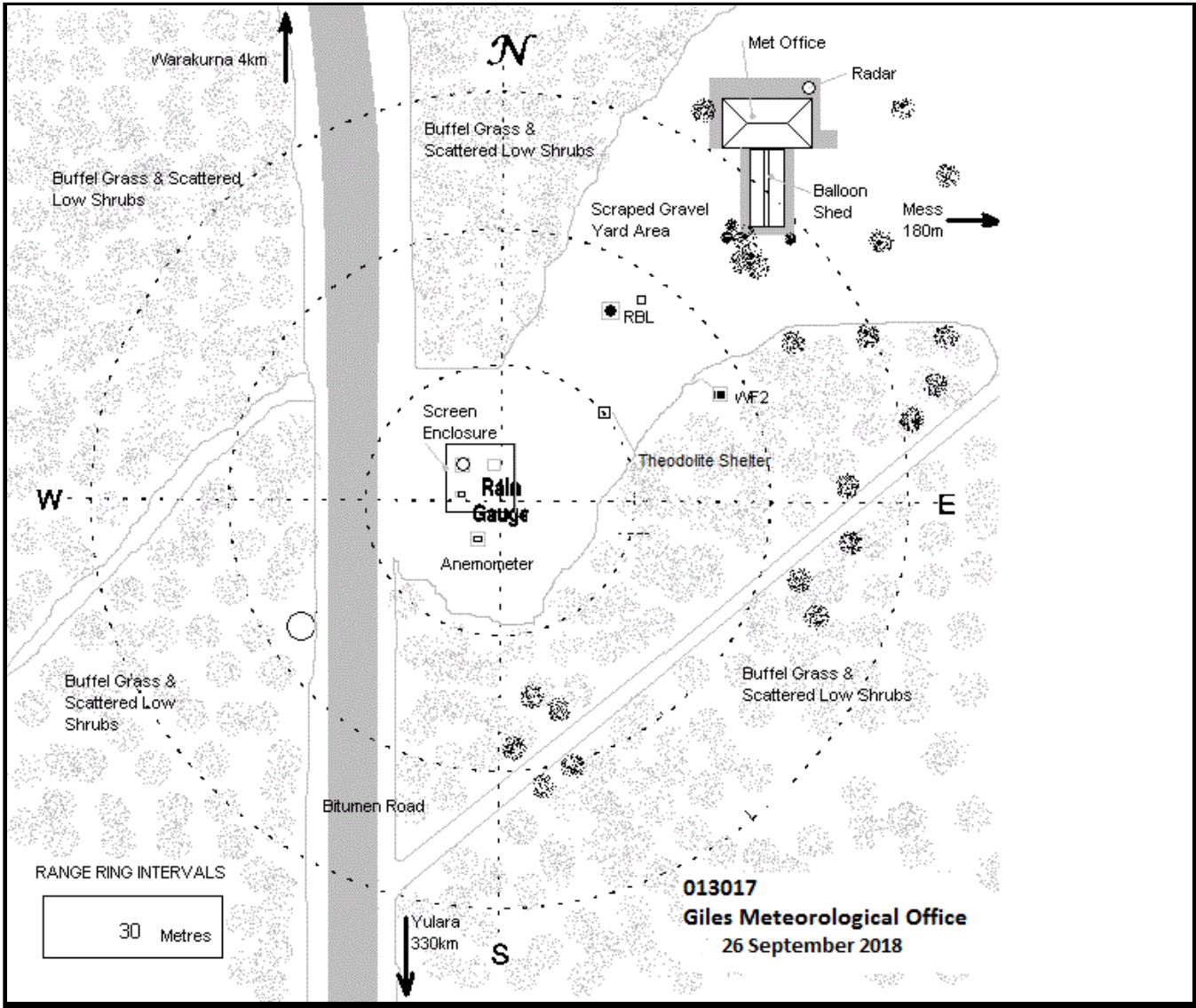
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Instrument Location and Surrounding Features
26/09/2018



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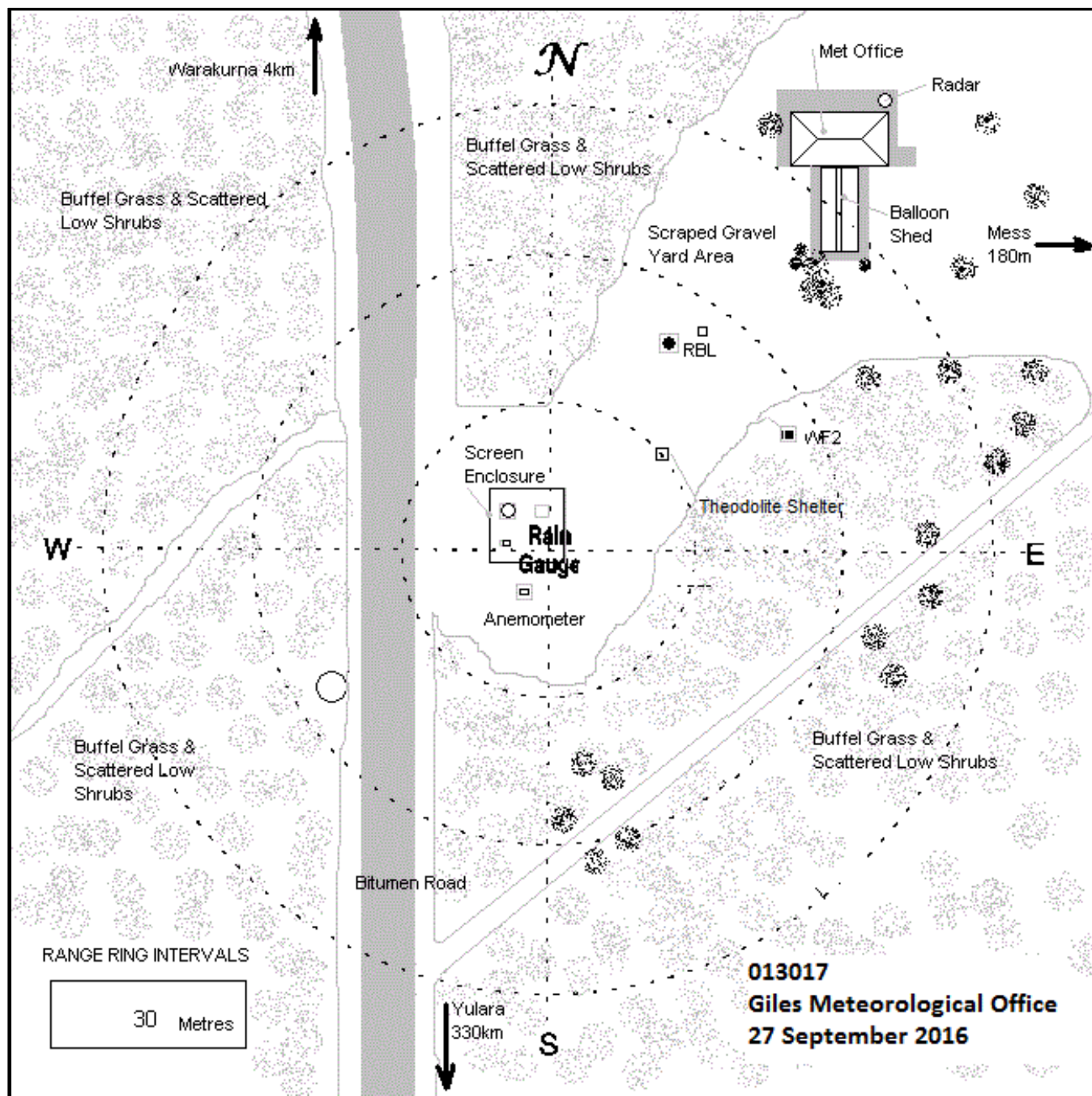
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

27/09/2016



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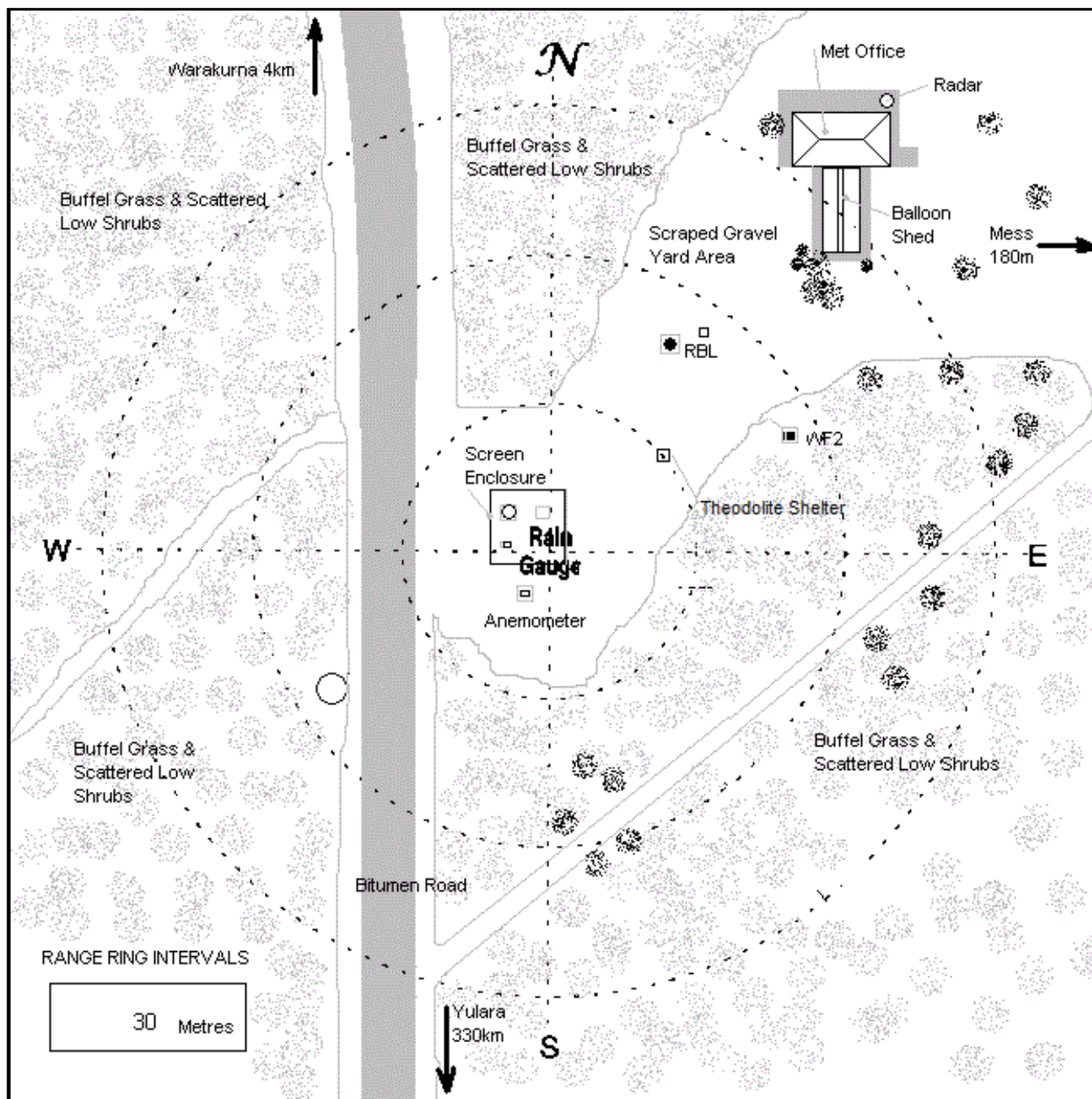
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All History

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Instrument Location and Surrounding Features

18/08/2015



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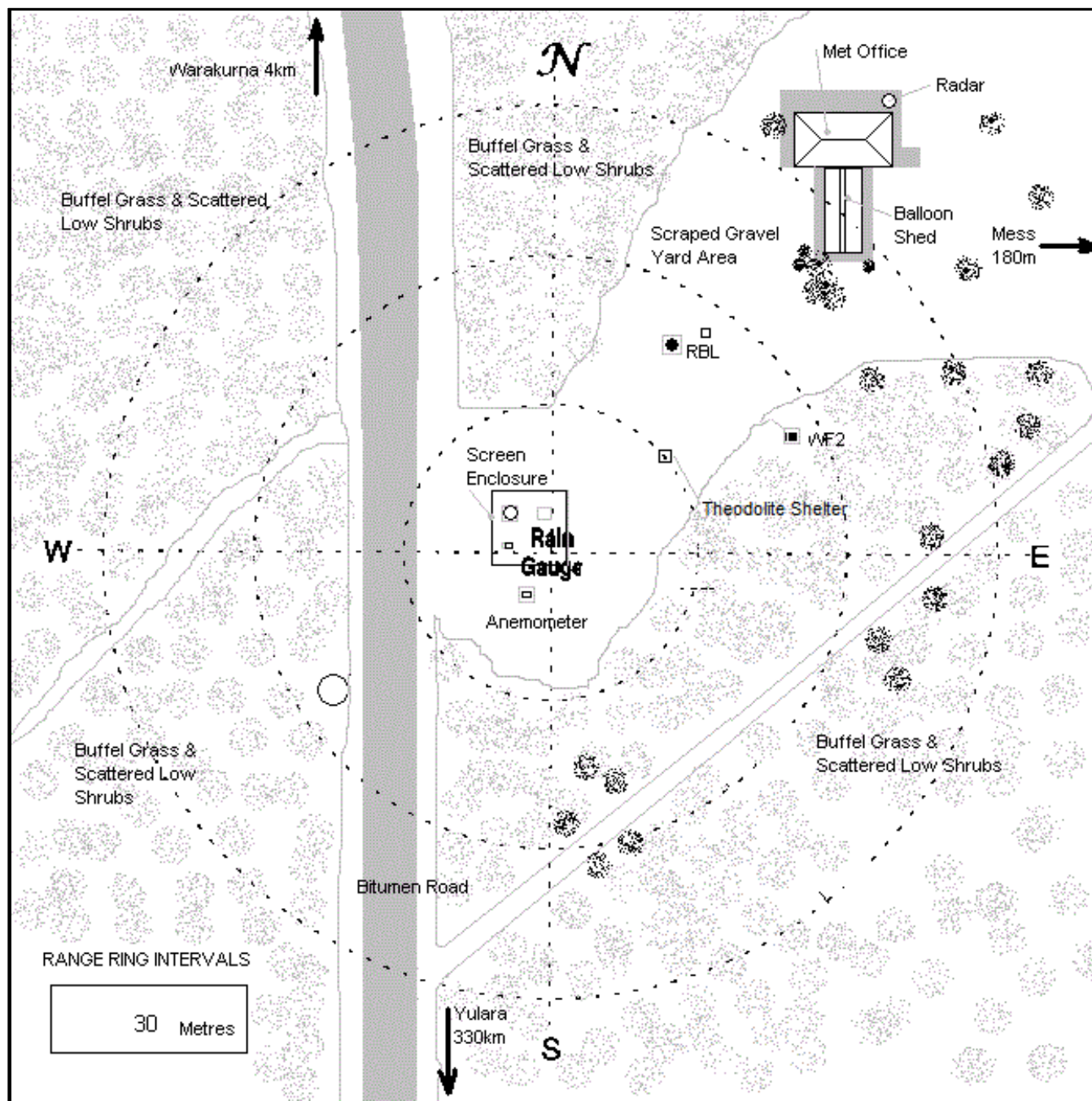
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

19/08/2014



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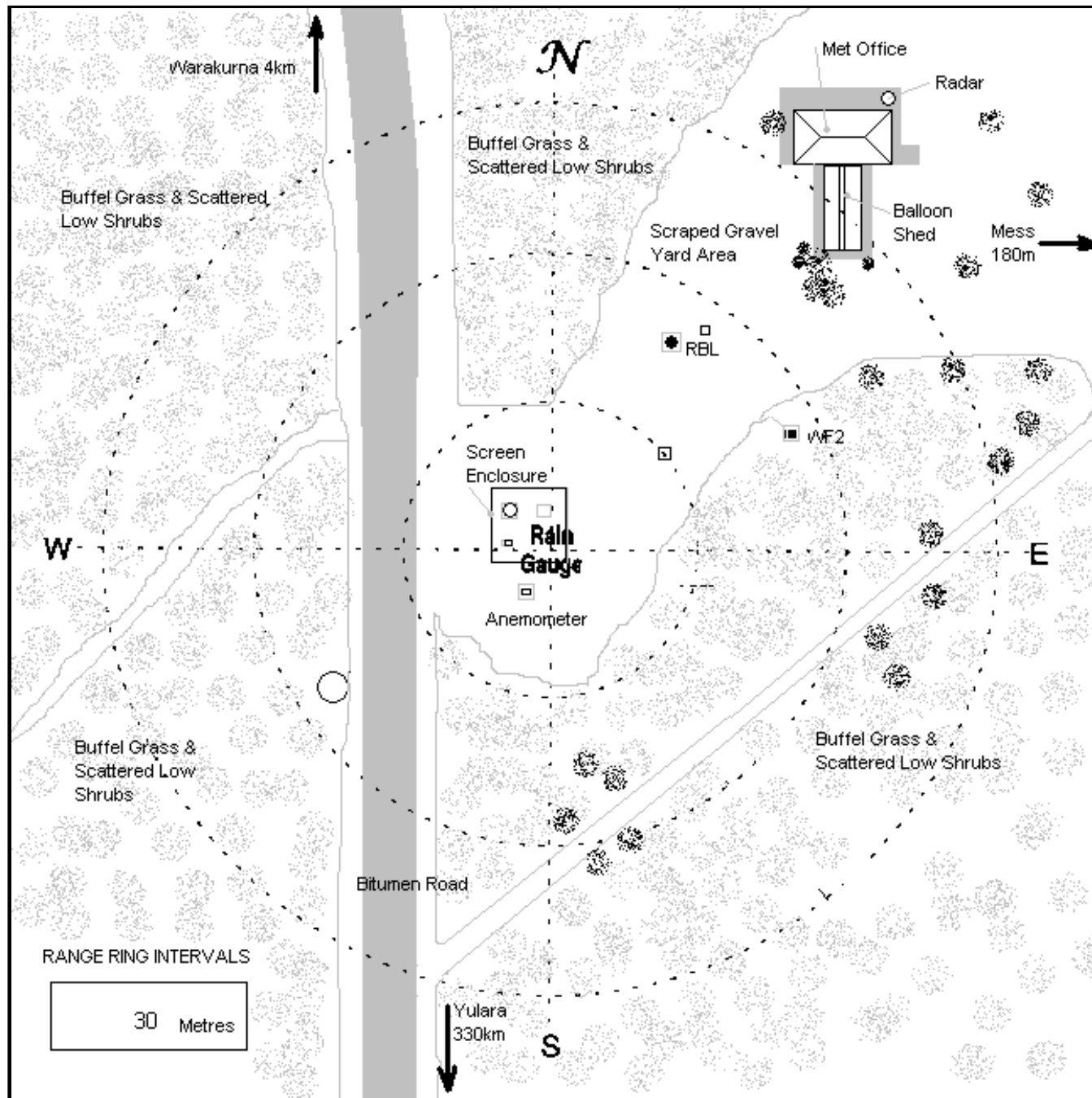
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All History

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Instrument Location and Surrounding Features

20/08/2013



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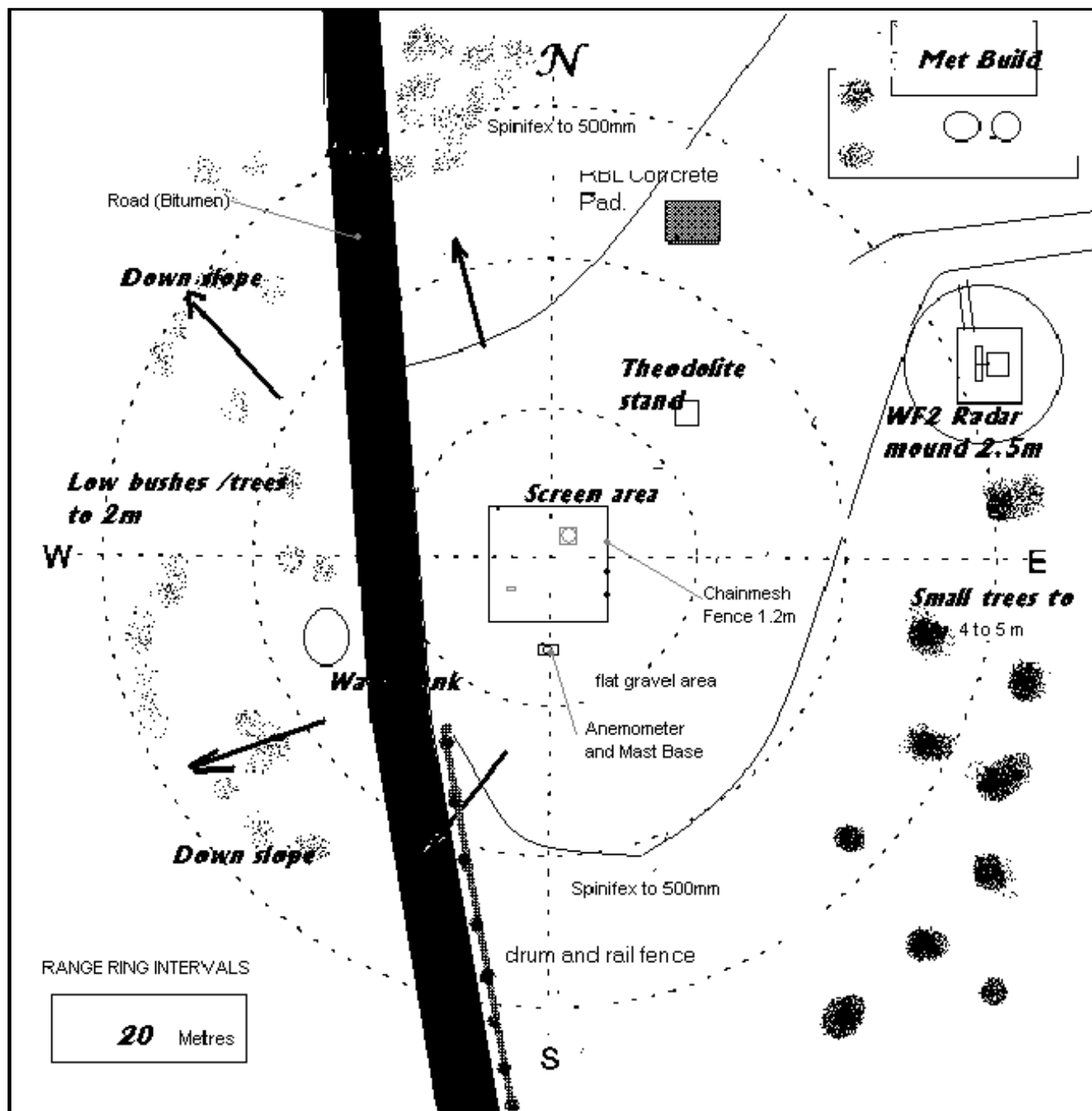
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

23/10/2012



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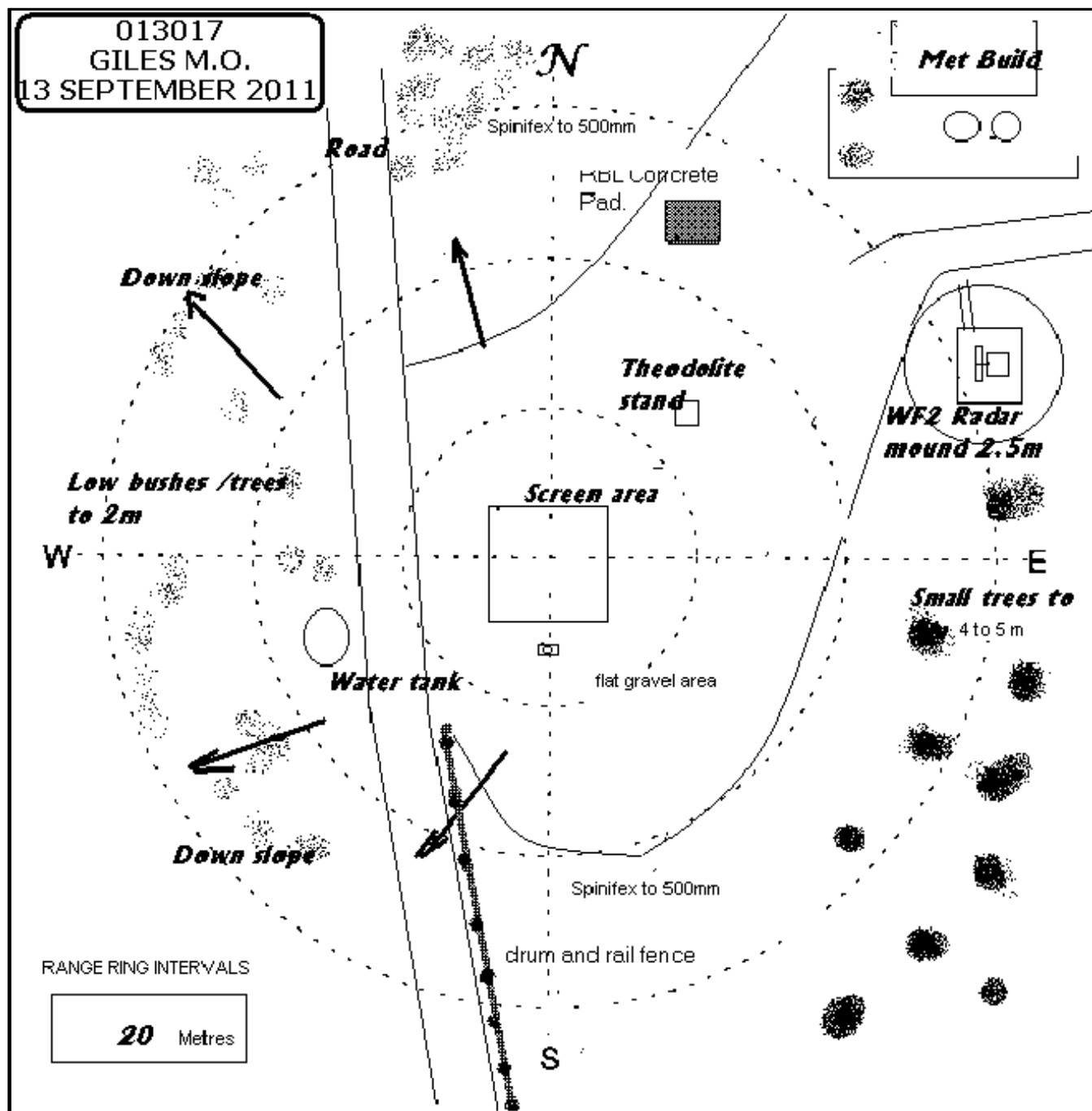
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Instrument Location and Surrounding Features

13/09/2011



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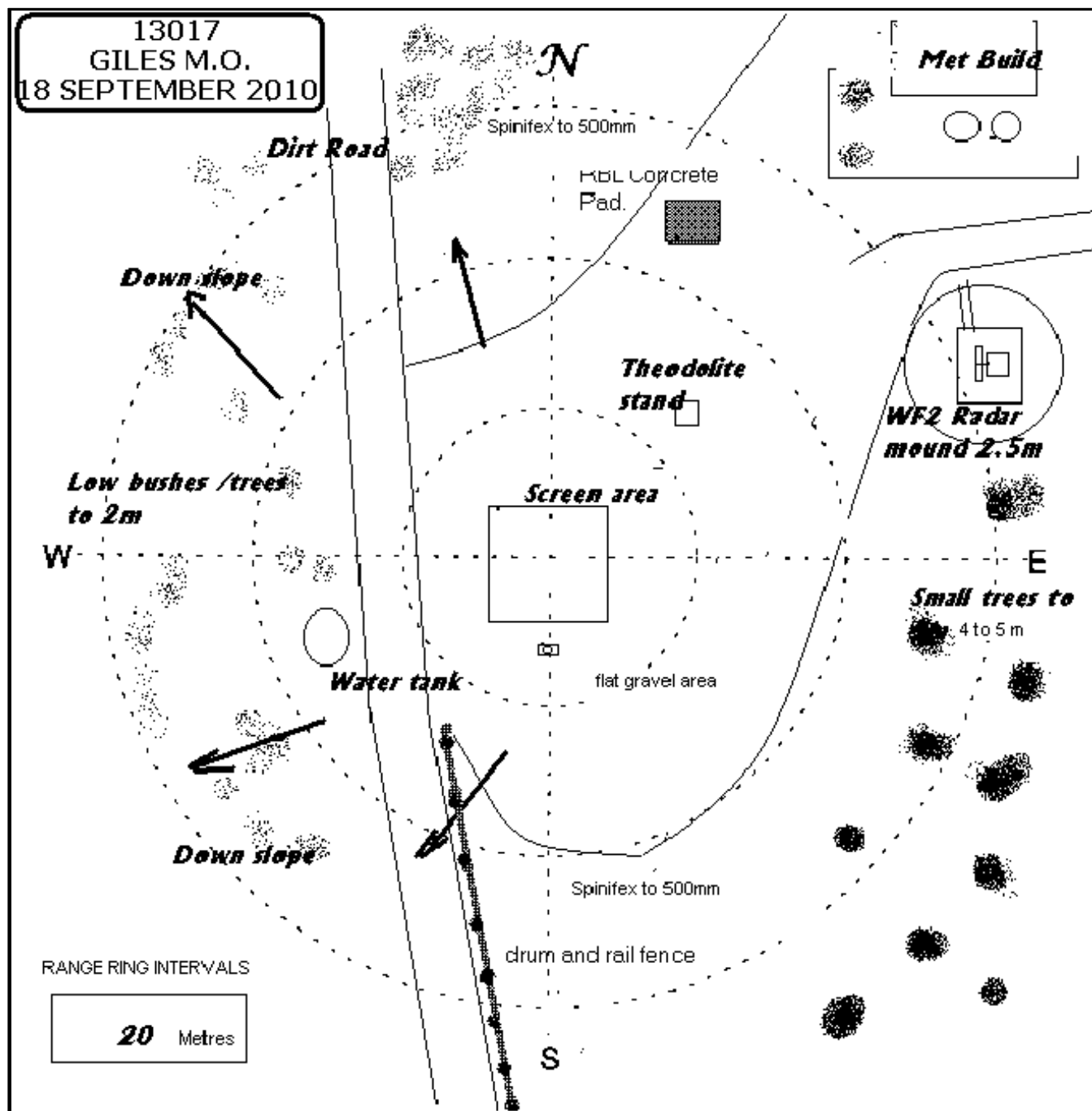
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Instrument Location and Surrounding Features

18/09/2010



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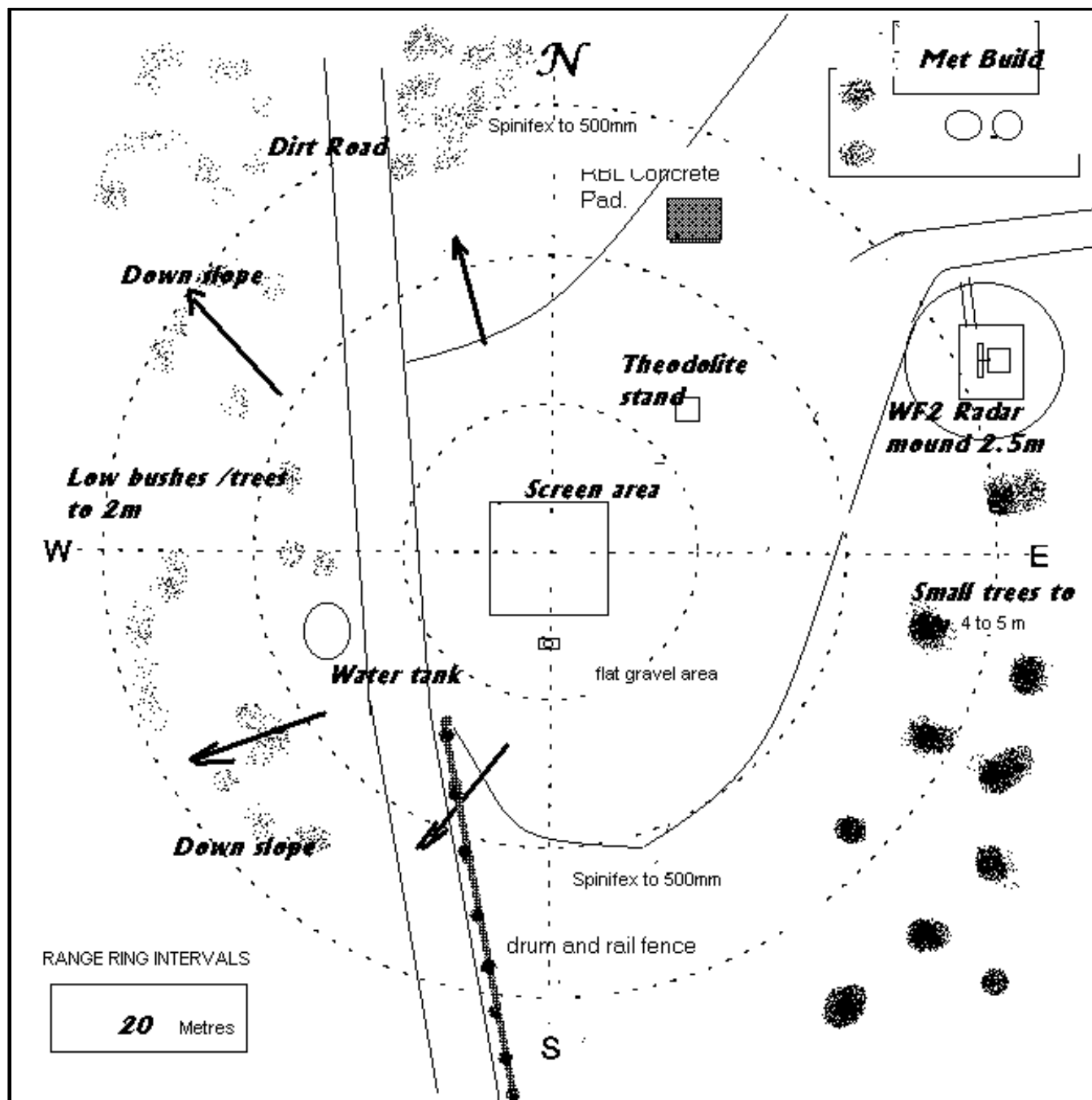
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Instrument Location and Surrounding Features

30/09/2008



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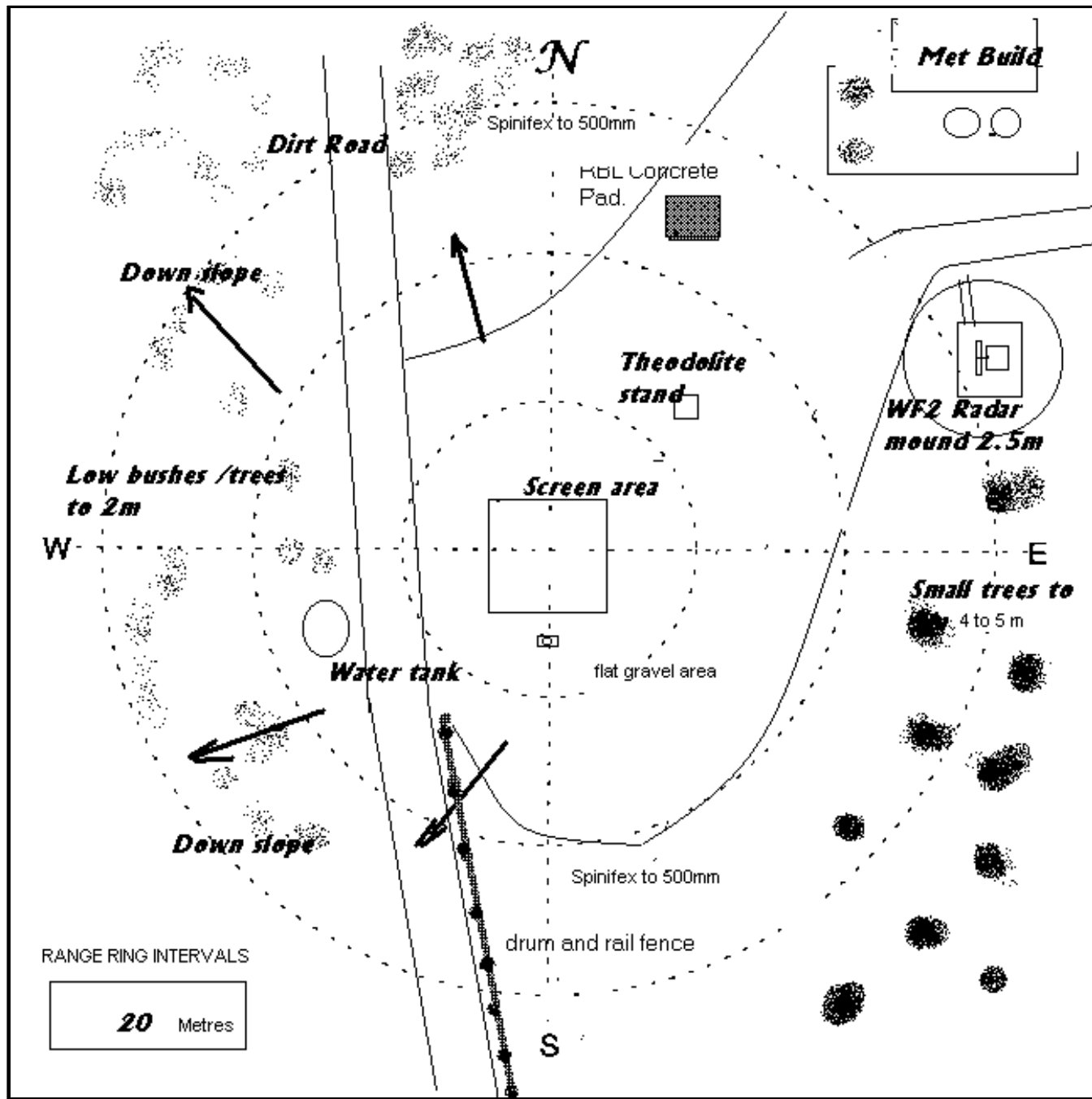
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Instrument Location and Surrounding Features

09/10/2007



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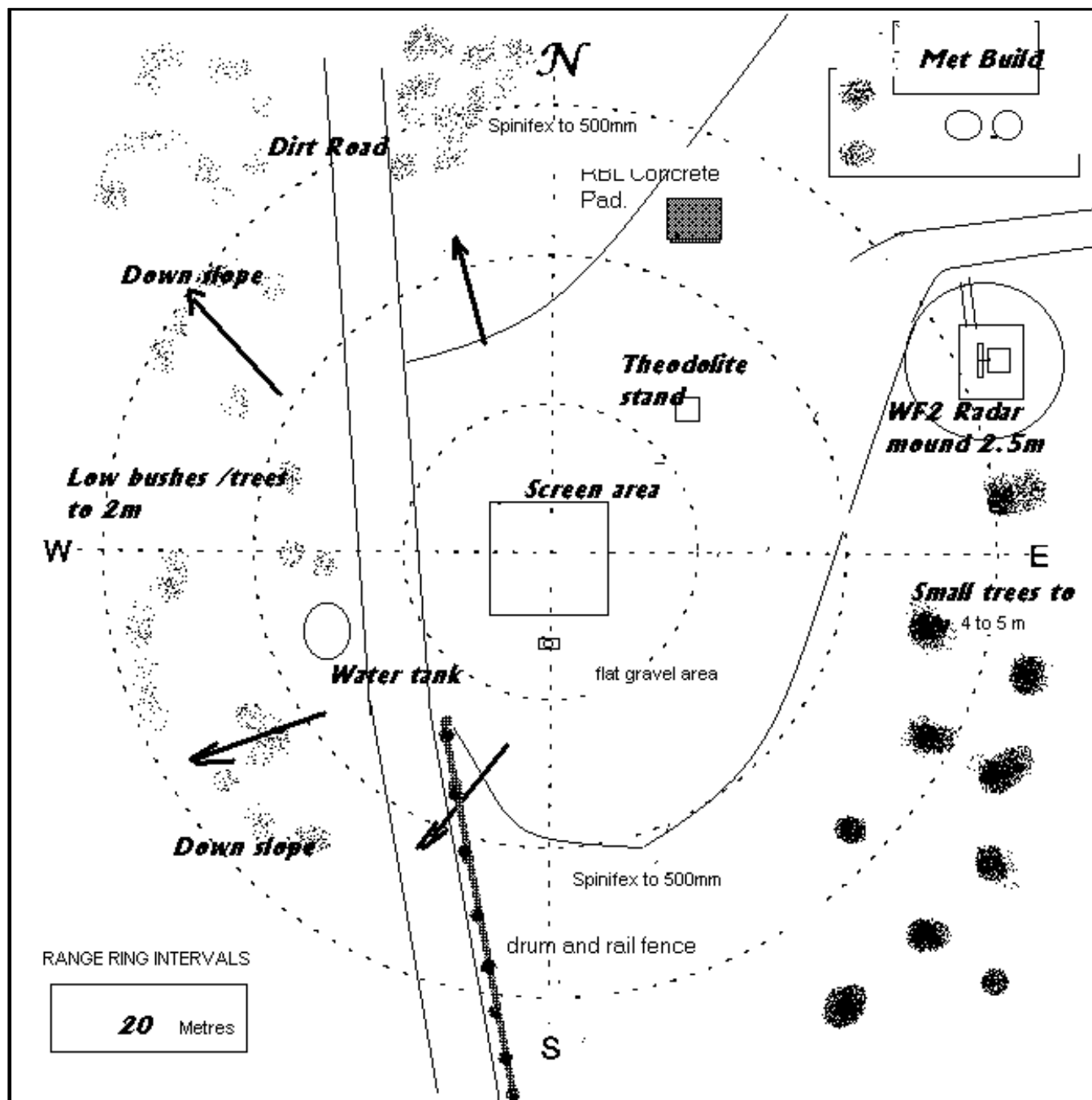
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Instrument Location and Surrounding Features

22/10/2006



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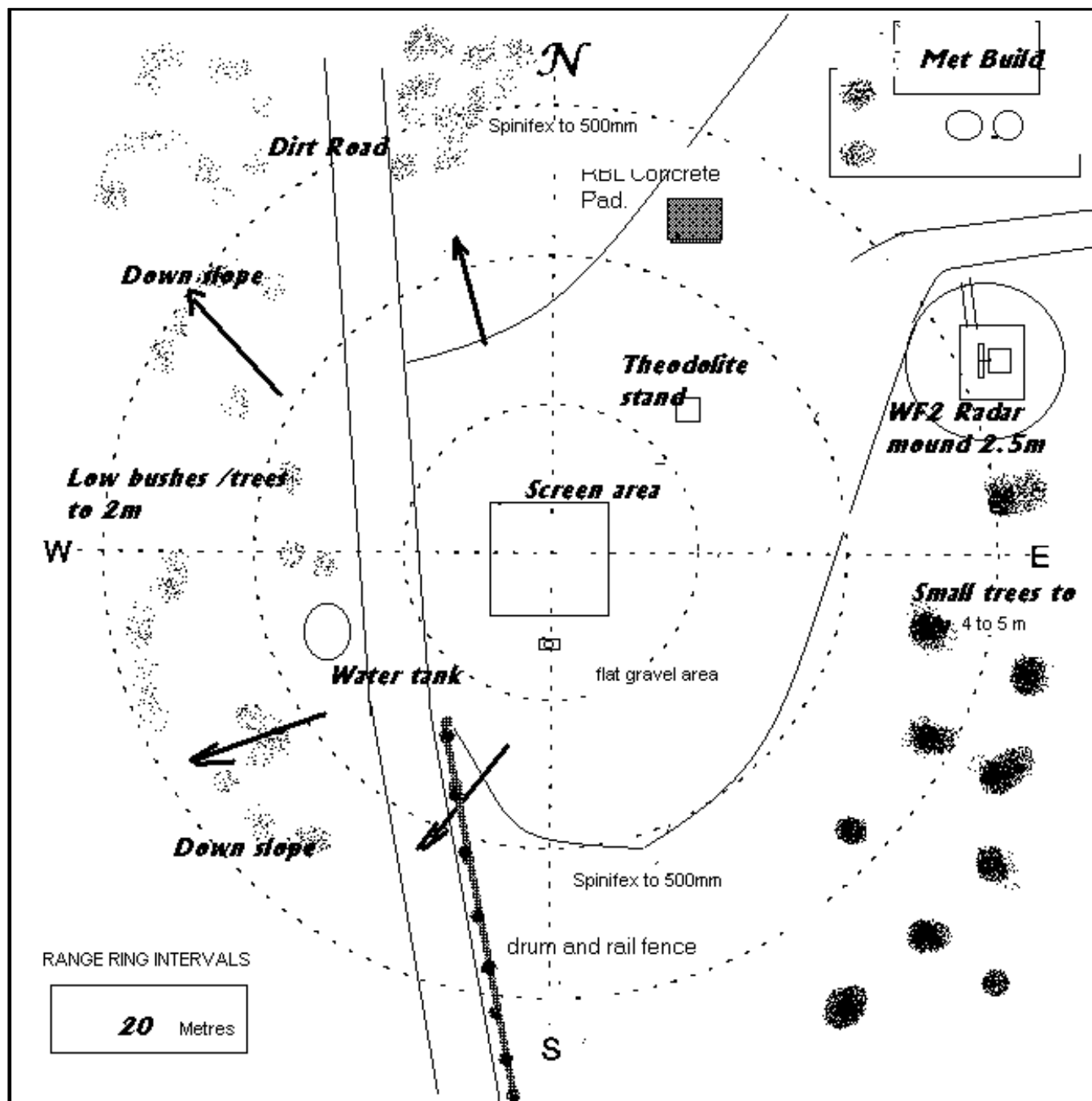
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Instrument Location and Surrounding Features

04/10/2002



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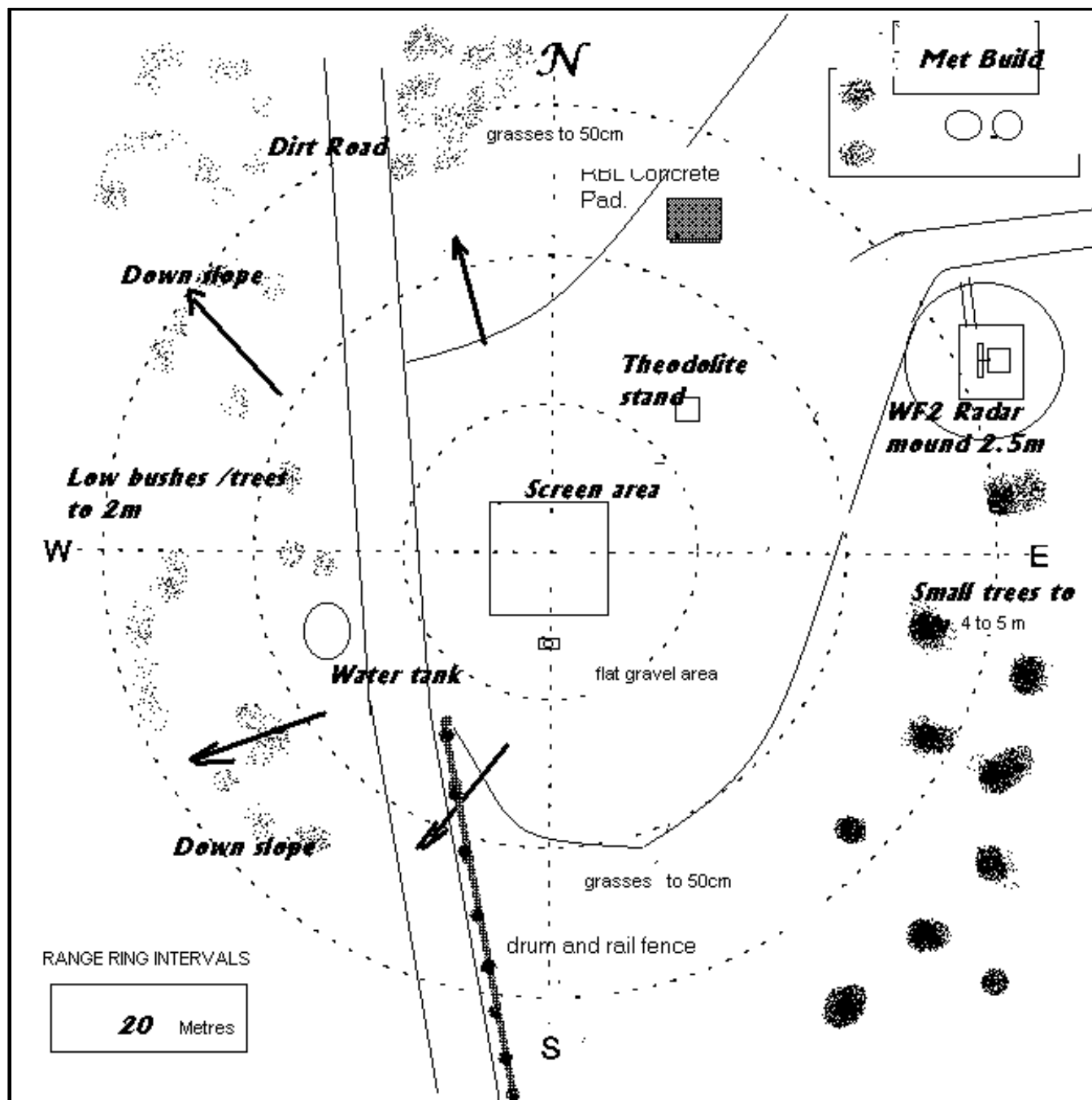
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09/08/2001



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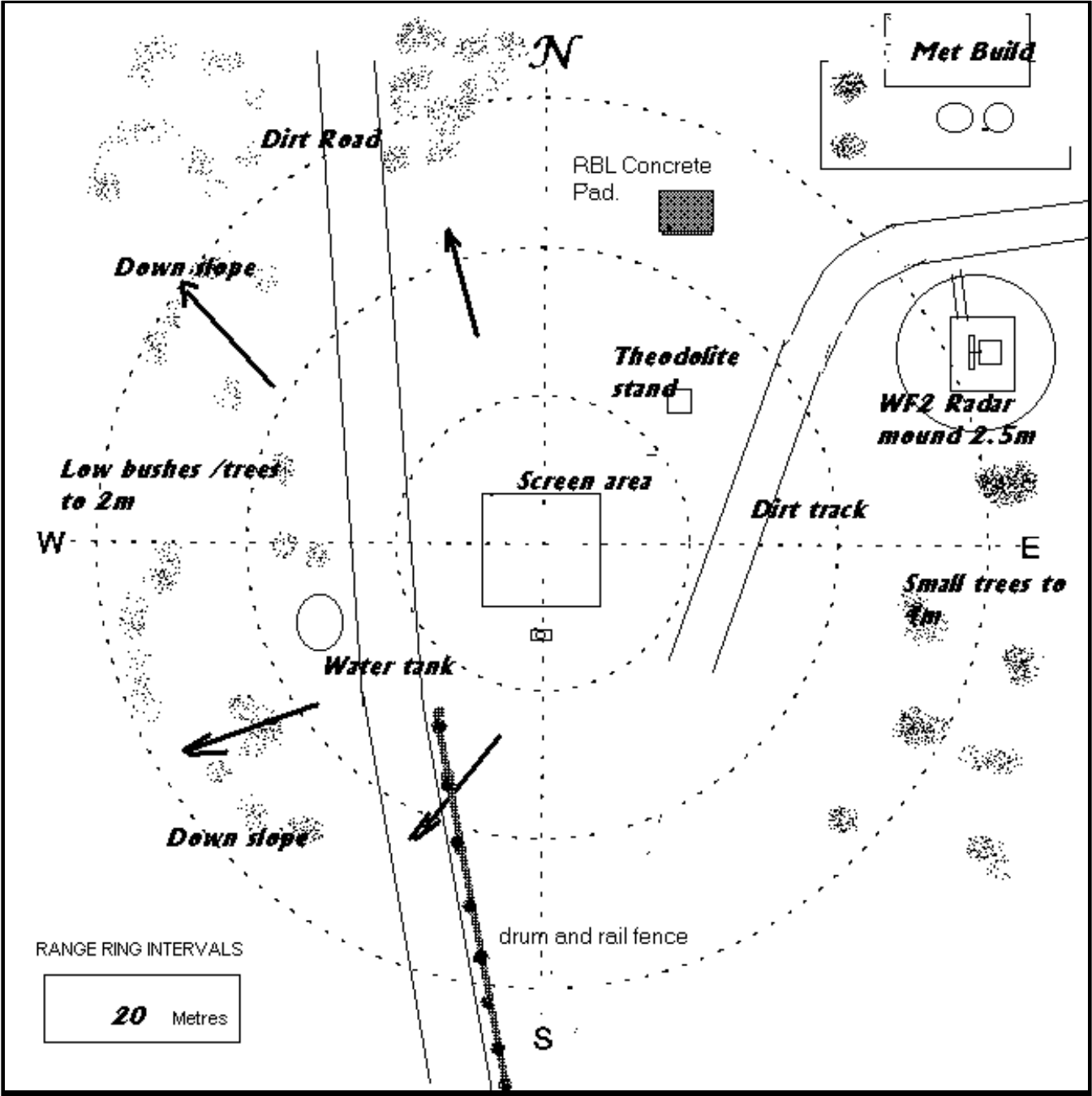
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Latitude:	-25.0341	Longitude:	128.3010	Elevation:	598 m	Barometer Elev:	599 m
						Current Status:	Still open
						Metadata compiled:	26 JUL 2025

Instrument Location and Surrounding Features
23/09/2000



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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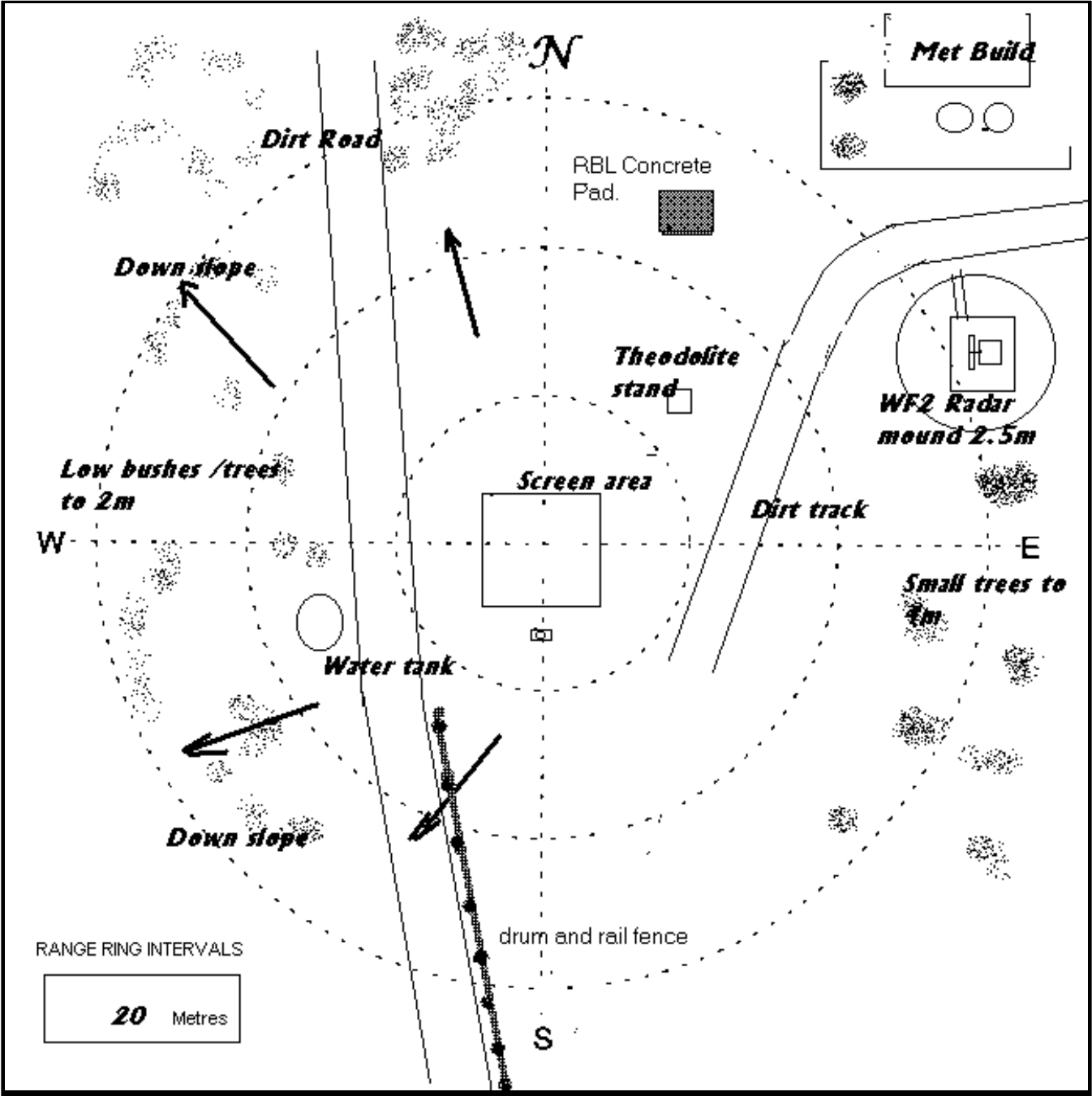
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Extended Climatological Station Metadata
All History

Station:	GILES METEOROLOGICAL OFFICE		Location:	GILES METEOROLOGICAL OFFICE		State:	WA
Bureau No.:	013017	WMO No.:	94461	Aviation ID:	YGLS	Opened:	01 Aug 1956
Latitude:	-25.0341	Longitude:	128.3010	Elevation:	598 m	Barometer Elev:	599 m
						Current Status:	Still open
						Metadata compiled:	26 JUL 2025

Instrument Location and Surrounding Features
07/08/1999



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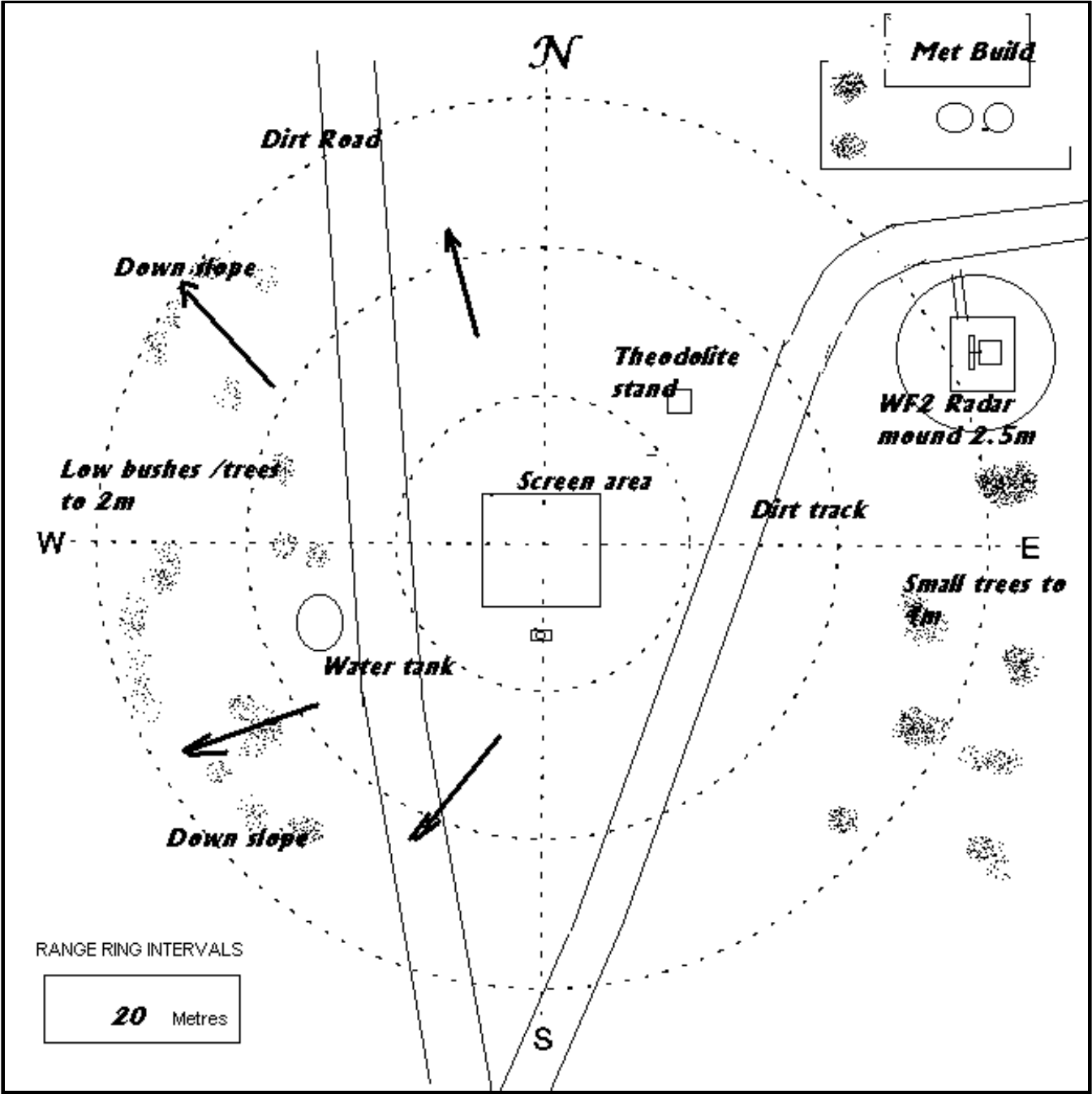
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Extended Climatological Station Metadata
All History

Station:	GILES METEOROLOGICAL OFFICE		Location:	GILES METEOROLOGICAL OFFICE		State:	WA
Bureau No.:	013017	WMO No.:	94461	Aviation ID:	YGLS	Opened:	01 Aug 1956
Latitude:	-25.0341	Longitude:	128.3010	Elevation:	598 m	Barometer Elev:	599 m
						Current Status:	Still open
						Metadata compiled:	26 JUL 2025

Instrument Location and Surrounding Features
24/06/1998



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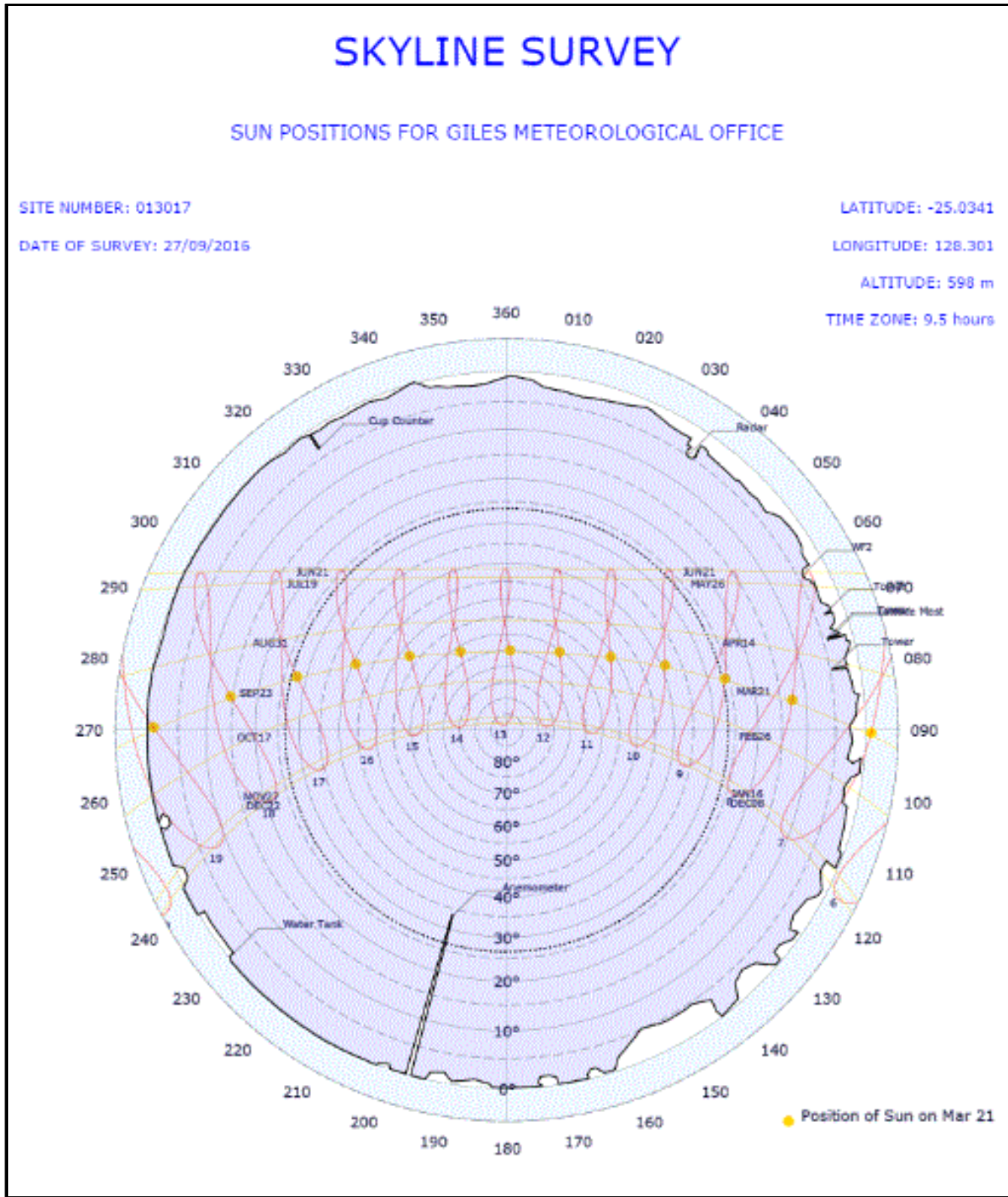
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All History

Station:	GILES METEOROLOGICAL OFFICE			Location:	GILES METEOROLOGICAL OFFICE			State:	WA
Bureau No.:	013017	WMO No.:	94461	Aviation ID:	YGLS	Opened:	01 Aug 1956	Current Status:	Still open
Latitude:	-25.0341	Longitude:	128.3010	Elevation:	598 m	Barometer Elev:	599 m	Metadata compiled:	26 JUL 2025

Skyline Diagram



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Extended Climatological Station Metadata
All History

Station:	GILES METEOROLOGICAL OFFICE		Location:	GILES METEOROLOGICAL OFFICE		State:	WA
Bureau No.:	013017	WMO No.:	94461	Aviation ID:	YGLS	Opened:	01 Aug 1956
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						Metadata compiled:	26 JUL 2025

Skyline Diagram
13/09/2011

SKYLINE SURVEY

SUN POSITIONS FOR GILES M.O.

SITE NUMBER: 013017

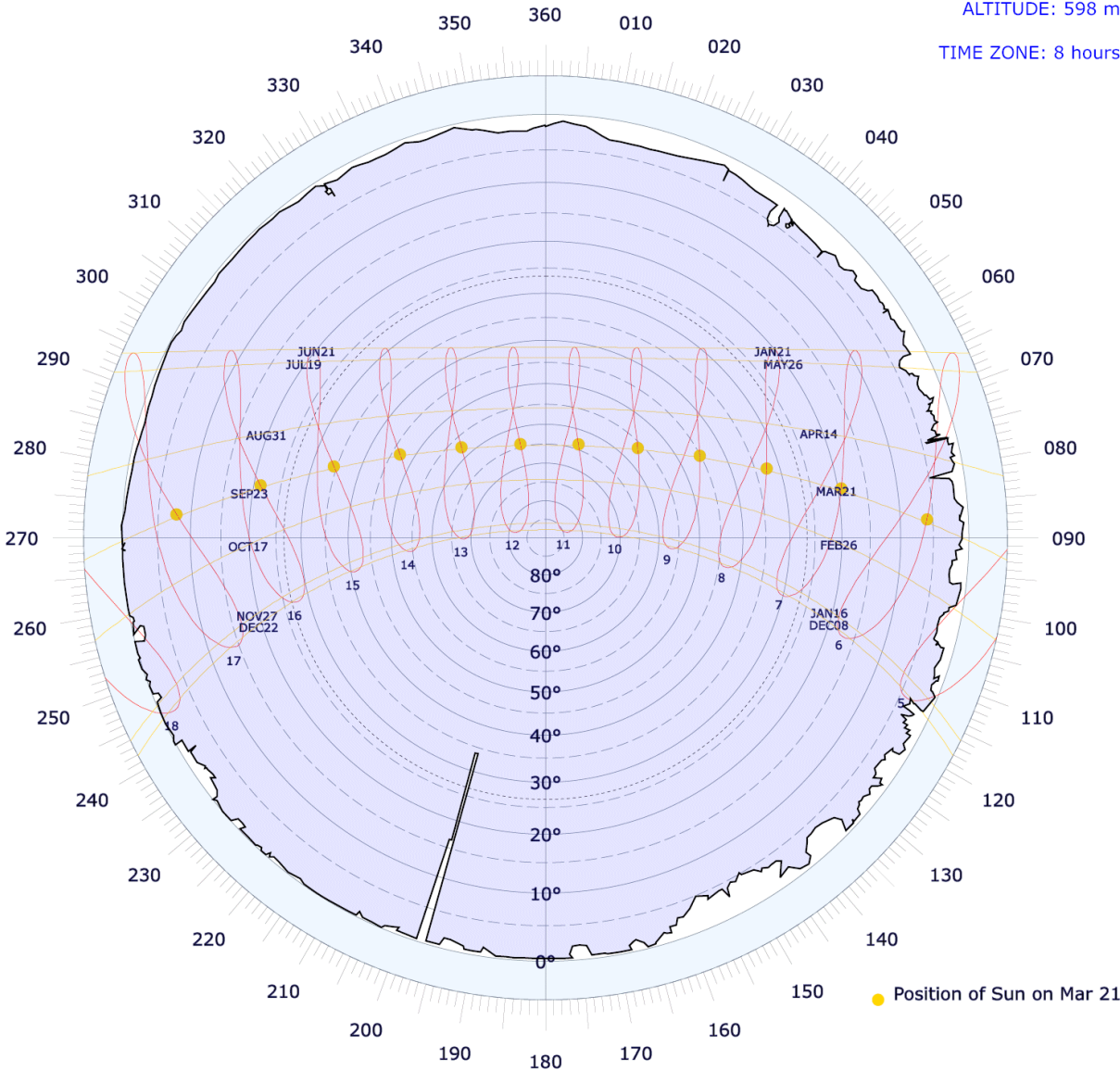
LATITUDE: -25.0341

DATE OF SURVEY: 13-09-2011

LONGITUDE: 128.301

ALTITUDE: 598 m

TIME ZONE: 8 hours



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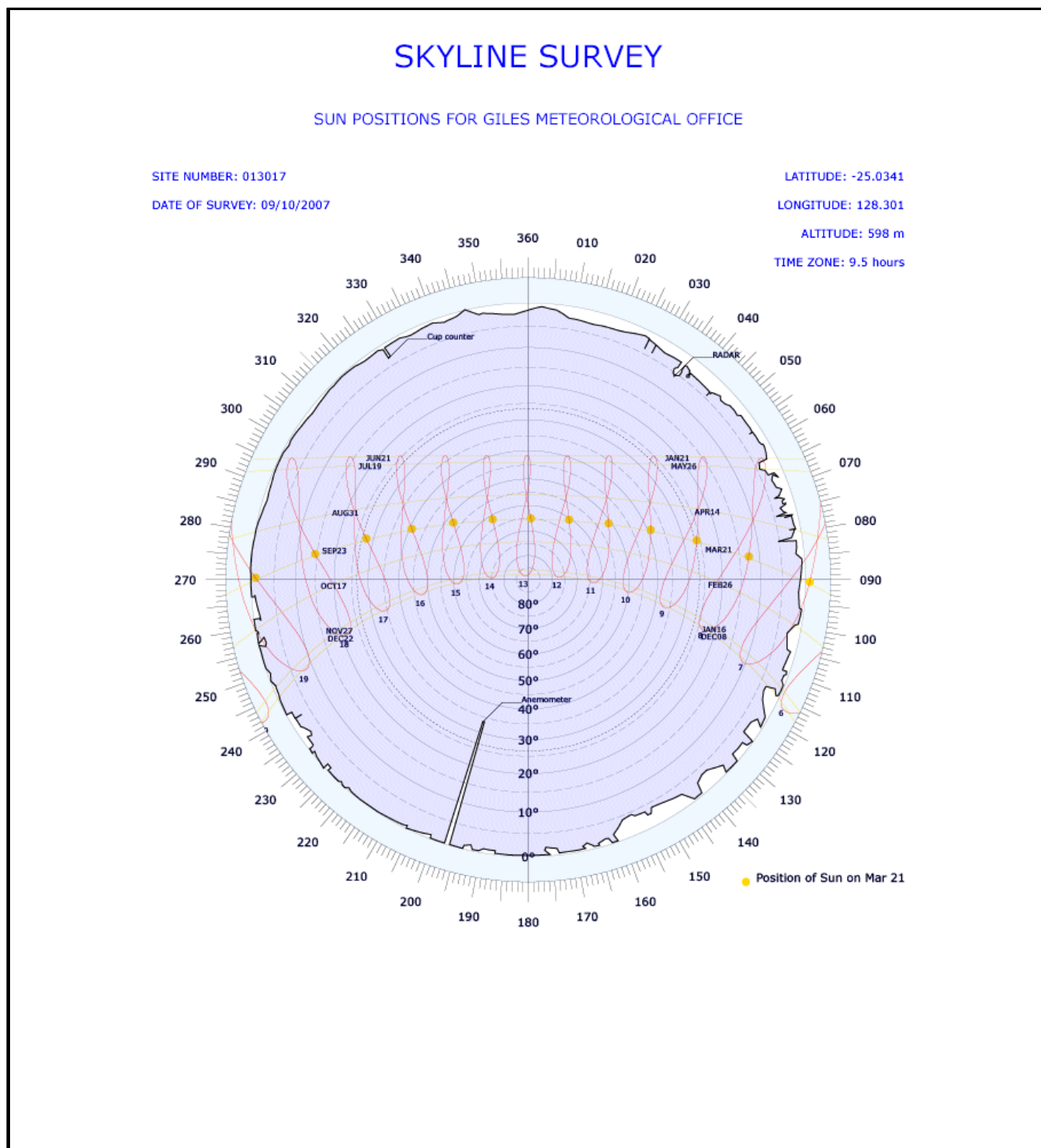
Extended Climatological Station Metadata

All History

Station:	GILES METEOROLOGICAL OFFICE	Location:	GILES METEOROLOGICAL OFFICE	State:	WA
Bureau No.:	013017	WMO No.:	94461	Aviation ID:	YGLS
Latitude:	-25.0341	Longitude:	128.3010	Opened:	01 Aug 1956
		Elevation:	598 m	Barometer Elev:	599 m
				Current Status:	Still open
				Metadata compiled:	26 JUL 2025

Skyline Diagram

09/10/2007



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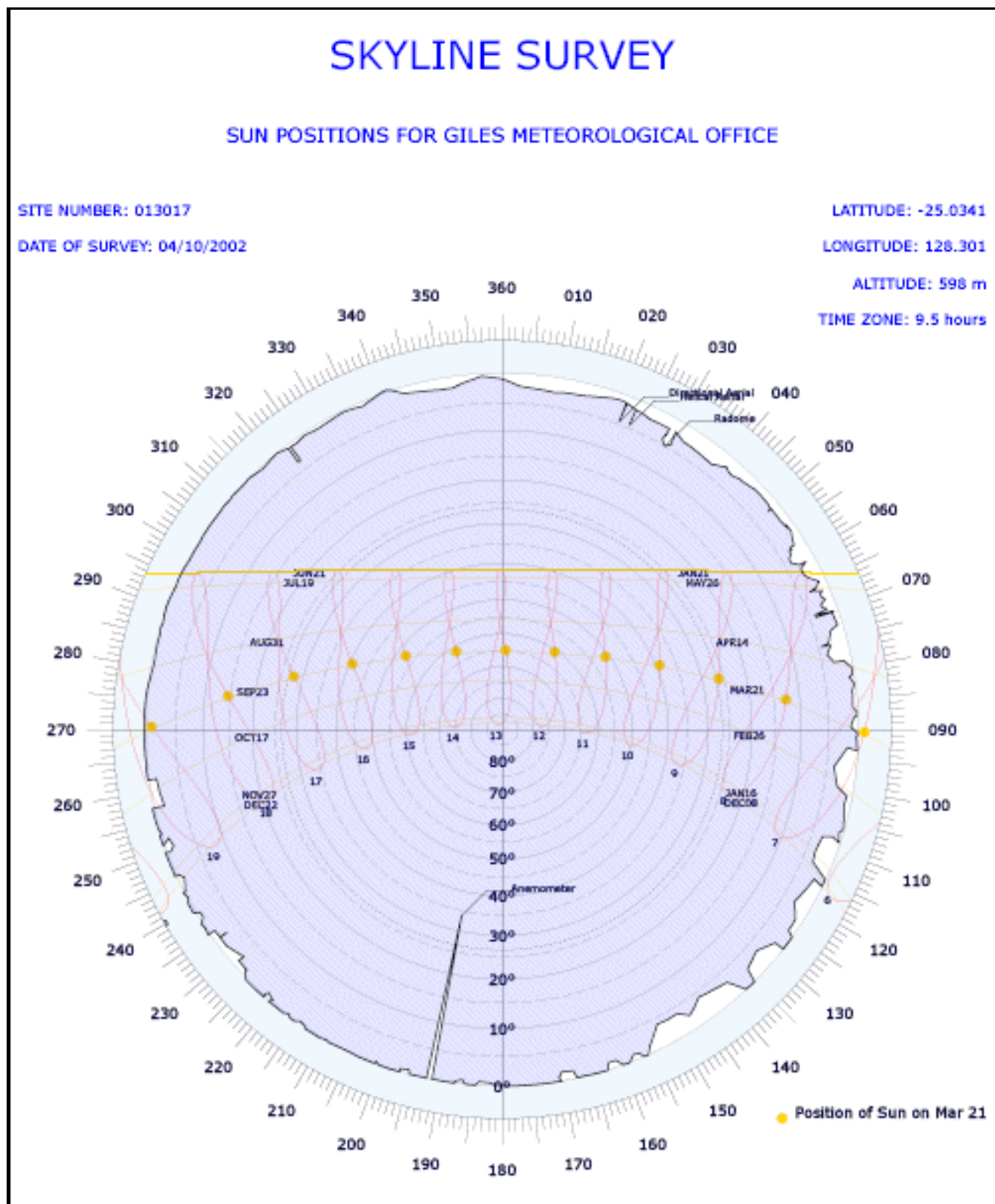
Extended Climatological Station Metadata

All History

Station:	GILES METEOROLOGICAL OFFICE	Location:	GILES METEOROLOGICAL OFFICE	State:	WA
Bureau No.:	013017	WMO No.:	94461	Aviation ID:	YGLS
Latitude:	-25.0341	Longitude:	128.3010	Opened:	01 Aug 1956
		Elevation:	598 m	Barometer Elev:	599 m
				Current Status:	Still open
				Metadata compiled:	26 JUL 2025

Skyline Diagram

04/10/2002



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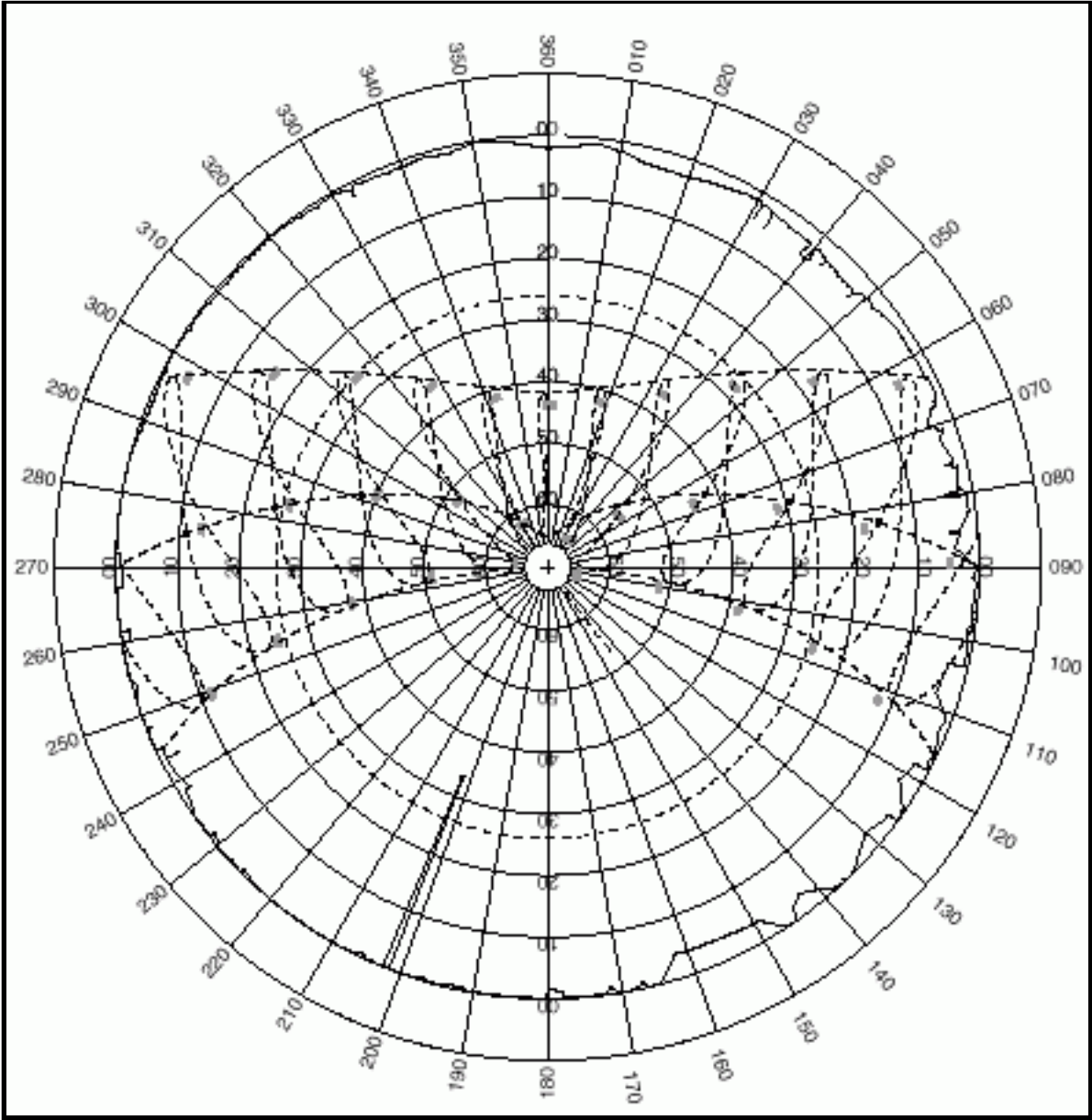
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Extended Climatological Station Metadata
All History

Station:	GILES METEOROLOGICAL OFFICE		Location:	GILES METEOROLOGICAL OFFICE		State:	WA
Bureau No.:	013017	WMO No.:	94461	Aviation ID:	YGLS	Opened:	01 Aug 1956
Latitude:	-25.0341	Longitude:	128.3010	Elevation:	598 m	Barometer Elev:	599 m
Metadata compiled:							26 JUL 2025

Skyline Diagram
09/08/2001



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Extended Climatological Station Metadata
All History

Station:	GILES METEOROLOGICAL OFFICE		Location:	GILES METEOROLOGICAL OFFICE		State:	WA
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Latitude:	-25.0341	Longitude:	128.3010	Elevation:	598 m	Barometer Elev:	599 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Observation Program Summary (Surface Observations) from 01/08/1956 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	-	-	-	-	-	-	-	-

Station Observation Program Summary (Surface Observations) from 14/05/2003 to 02/12/2020

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

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

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

Upper Air Routine 01/11/1998 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	-	-	-	-	-	-	-

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Extended Climatological Station Metadata

All History

Station:	GILES METEOROLOGICAL OFFICE		Location:	GILES METEOROLOGICAL OFFICE		State:	WA
Bureau No.:	013017	WMO No.:	94461	Aviation ID:	YGLS	Opened:	01 Aug 1956
Latitude:	-25.0341	Longitude:	128.3010	Elevation:	598 m	Barometer Elev:	599 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

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	-	-	-	-	-	-	-

Upper Air Routine 01/07/2010 to 20/08/2018

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 20/08/2018 to 26/03/2020

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 26/03/2020 to 06/08/2020

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

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

Station:	GILES METEOROLOGICAL OFFICE		Location:	GILES METEOROLOGICAL OFFICE		State:	WA
Bureau No.:	013017	WMO No.:	94461	Aviation ID:	YGLS	Opened:	01 Aug 1956
Latitude:	-25.0341	Longitude:	128.3010	Elevation:	598 m	Barometer Elev:	599 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Upper Air Routine 06/08/2020 (most recent)

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

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Extended Climatological Station Metadata

All History

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Latitude:	-25.0341	Longitude:	128.3010	Elevation:	598 m	Barometer Elev:	599 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History

Equipment Install/Remove

Cloud Height

07/JUN/2018 INSTALL Ceilometer (Type Vaisala CL31 S/N - L3331025) Surface Observations
31/AUG/2018 REPLACE Ceilometer (Now Vaisala CL31 S/N - L4230406) Surface Observations
01/SEP/1956 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - PT9019) Surface Observations
02/DEC/2020 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - PT9019) Surface Observations

Humidity

18/JUL/2021 INSTALL Humidity Probe (Type Vaisala HMP155A S/N - T1311038) Surface Observations
01/AUG/1956 INSTALL Hygrograph (Type Fielden S/N - Unknown) Surface Observations
01/JUN/1992 REMOVE Hygrograph (Type Fielden S/N - Unknown) Surface Observations
01/AUG/1956 INSTALL Thermohygrograph (Type Unknown S/N - Unknown) Surface Observations
01/JUN/1992 REMOVE Thermohygrograph (Type Unknown S/N - Unknown) Surface Observations

Pressure Trend

24/JUN/1998 INSTALL Barograph (Type Daily S/N - CMO 212) Surface Observations
02/DEC/2020 REMOVE Barograph (Type Daily S/N - CBM0010) Surface Observations
07/AUG/1999 REPLACE Barograph (Now Daily S/N - CBM0010) Surface Observations

Lightning (No Electronic History)

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

27/APR/2009 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - Unknown) Surface Observations
01/JUN/1992 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - WD72827/WS82147) Surface Observations
23/SEP/2000 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
01/SEP/1956 INSTALL Wind Run Anemometer (Type Munro S/N - CBM518) Surface Observations
27/APR/2009 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - WD/WS82147) Surface Observations
25/AUG/2008 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - WD72827/WS80246) Surface Observations
18/NOV/2010 REPLACE Wind Run Anemometer (Now Munro S/N - CBM522) Surface Observations
15/DEC/1998 REPLACE Wind Run Anemometer (Now Munro S/N - CBM7206) Surface Observations

Wet Bulb Temperature

01/JUN/1992 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations
18/JUL/2021 REMOVE Temperature Probe - Wet Bulb (Type Rosemount ST2401 S/N - 0323) Surface Observations
15/APR/2009 REPLACE Temperature Probe - Wet Bulb (Now Rosemount ST2401 S/N - 0323) Surface Observations
27/FEB/2008 REPLACE Temperature Probe - Wet Bulb (Now Temp Control TCBMP01 S/N - 10135) Surface Observations
01/SEP/1956 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - CBM4693) Surface Observations
07/OCT/2020 REMOVE Thermometer, Mercury, Wet Bulb (Type WIKA S/N - 22981) Surface Observations
23/SEP/2000 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 15856) Surface Observations
04/OCT/2002 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 20373) Surface Observations
20/MAR/1999 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M1990) Surface Observations
06/OCT/2009 REPLACE Thermometer, Mercury, Wet Bulb (Now WIKA S/N - 22981) Surface Observations

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

21/SEP/2006 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 20553) Surface Observations
07/JAN/2020 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 20553) Surface Observations

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Extended Climatological Station Metadata

All History

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Latitude:	-25.0341	Longitude:	128.3010	Elevation:	598 m	Barometer Elev:	599 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

01/SEP/1956 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - CBM4462) Surface Observations
 02/DEC/2020 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - 20553) Surface Observations
 21/SEP/2006 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - CBM4147) Surface Observations
 07/JAN/2020 REMOVE Thermometer, Mercury, Max (Type WIKA S/N - 32838) Surface Observations
 15/DEC/2012 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 19083) Surface Observations
 13/JUN/2015 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 32857) Surface Observations
 20/MAR/1999 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - CBM4147) Surface Observations
 30/JUN/2015 REPLACE Thermometer, Mercury, Max (Now WIKA S/N - 32838) Surface Observations

Soil Temperature 10cm

01/JAN/1959 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - CBM564) Surface Observations
 02/DEC/2020 REMOVE Thermometer, Soil, 10cm (Type Dobros S/N - 9604899) Surface Observations
 19/MAY/2000 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - 9604868) Surface Observations
 20/MAY/2004 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - 9604868) Surface Observations
 08/JAN/2017 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - 9604899) Surface Observations
 12/SEP/2006 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - CBM681) Surface Observations
 16/AUG/1999 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - CBM690) Surface Observations
 06/OCT/2009 REPLACE Thermometer, Soil, 10cm (Now Unknown S/N - 9725448) Surface Observations
 05/NOV/2006 REPLACE Thermometer, Soil, 10cm (Now Unknown S/N - 9725?) Surface Observations

Soil Temperature 20cm

01/JAN/1959 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - CBM377) Surface Observations
 02/DEC/2020 REMOVE Thermometer, Soil, 20cm (Type Dobros S/N - 9604842) Surface Observations
 25/NOV/2014 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 9604816) Surface Observations
 16/OCT/2018 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - 9604842) Surface Observations
 20/MAR/1999 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - CBM337) Surface Observations

Soil Temperature 50cm

01/JAN/1959 INSTALL Thermometer, Soil, 50cm (Type Unknown S/N - CBM294) Surface Observations
 02/DEC/2020 REMOVE Thermometer, Soil, 50cm (Type Amarol S/N - 0673650) Surface Observations
 14/APR/2011 REPLACE Thermometer, Soil, 50cm (Now Amarol S/N - 0673650) Surface Observations
 14/NOV/2002 REPLACE Thermometer, Soil, 50cm (Now Dobros S/N - 9603283) Surface Observations

Snow Height (No Electronic History)

Soil Temperature 100cm

01/JAN/1959 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - CBM316) Surface Observations
 02/DEC/2020 REMOVE Thermometer, Soil, 100cm (Type Amarol S/N - 0673659) Surface Observations
 09/AUG/2001 REPLACE Thermometer, Soil, 100cm (Now Amarol S/N - 0010803) Surface Observations
 10/NOV/2019 REPLACE Thermometer, Soil, 100cm (Now Amarol S/N - 0673659) Surface Observations
 20/MAR/1999 REPLACE Thermometer, Soil, 100cm (Now Dobros S/N - M6093) Surface Observations

Sunshine Hours

01/OCT/1956 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - 5121) Surface Observations
 02/DEC/2020 REMOVE Sunshine Recorder (Type Campbell-Stokes S/N - 5121) Surface Observations

Wind Run

01/SEP/1956 INSTALL Wind Run Anemometer (Type Munro S/N - CBM518) Surface Observations
 18/NOV/2010 REPLACE Wind Run Anemometer (Now Munro S/N - CBM522) Surface Observations
 15/DEC/1998 REPLACE Wind Run Anemometer (Now Munro S/N - CBM7206) Surface Observations

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Extended Climatological Station Metadata

All History

Station:	GILES METEOROLOGICAL OFFICE		Location:	GILES METEOROLOGICAL OFFICE		State:	WA
Bureau No.:	013017	WMO No.:	94461	Aviation ID:	YGLS	Opened:	01 Aug 1956
Latitude:	-25.0341	Longitude:	128.3010	Elevation:	598 m	Barometer Elev:	599 m
Current Status:							Still open
Metadata compiled:							26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

Minimum Temperature

01/SEP/1956 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - CBM4523) Surface Observations
02/DEC/2020 REMOVE Thermometer, Alcohol, Min (Type WIKA S/N - 31260) Surface Observations
05/FEB/2020 REPLACE Thermometer, Alcohol, Min (Now WIKA S/N - 31260) Surface Observations

Terrestrial Minimum Temperature

01/SEP/1956 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - 5125) Surface Observations
02/DEC/2020 REMOVE Thermometer, Terrestrial, Min (Type WIKA S/N - 32969) Surface Observations
15/OCT/1998 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 12457) Surface Observations
20/MAR/1999 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 14510) Surface Observations
18/OCT/2003 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19599) Surface Observations
16/JUL/2009 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 20482) Surface Observations
27/FEB/2010 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 31280) Surface Observations
09/AUG/2001 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - CBM4461) Surface Observations
08/SEP/2010 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 31230) Surface Observations
11/AUG/2018 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 32969) Surface Observations

Visibility

07/JUN/2018 INSTALL Visibility Meter (Type Vaisala FS11 S/N - N3930232) Surface Observations

Soil Temperature 5cm (No Electronic History)

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Oxygen Content

20/DEC/2011 INSTALL Gas Analyser (Type Teledyne 311P S/N - 187248) Upper Air
31/JAN/2014 REMOVE Gas Analyser (Type Teledyne 311P S/N - 187248) Upper Air

RF Reflectivity

01/AUG/1956 INSTALL Radar (Type 3MKVII S/N - Unknown) Upper Air
07/APR/1992 INSTALL Radar (Type WF100-5C S/N - 007) Upper Air
07/APR/1992 INSTALL Radar (Type WF100-5C S/N - 007) WeatherWatch
24/AUG/2018 INSTALL Radar Interface (Type BOM S/N - TBA) WeatherWatch
10/SEP/2015 INSTALL Radar Safety System (RSS) (Type RSS (2502C/8502S) S/N - 6236-03) Upper Air
01/MAR/1992 INSTALL Radar Tower (Type Cylindrical WF100 - 7.75 m S/N - NONE) Infrastructure
01/MAR/1992 REMOVE Radar (Type WF2 S/N - Unknown) Upper Air
01/AUG/1964 REPLACE Radar (Now WF2 S/N - Unknown) Upper Air

Total Column Ozone Amount (No Electronic History)

Pressure

01/SEP/1956 INSTALL Barometer (Type Kew pattern mercury S/N - 1574) Surface Observations
01/JUN/1992 INSTALL Barometer (Type Vaisala PA11A S/N - 433533) Surface Observations
01/JUN/1992 REMOVE Barometer (Type Kew pattern mercury S/N - 1574) Surface Observations
23/SEP/2000 REPLACE Barometer (Now Vaisala PA11A S/N - 433535) Surface Observations
16/NOV/2007 REPLACE Barometer (Now Vaisala PA11A S/N - T1330001) Surface Observations
22/FEB/2012 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - G2310011) Surface Observations

Evaporation

01/SEP/1956 INSTALL Evaporation Pan (Type Class A S/N - NONE) Surface Observations
18/NOV/2010 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations

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Extended Climatological Station Metadata

All History

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

Rainfall

01/JAN/1956 INSTALL Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
01/JUL/1998 REMOVE Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
01/AUG/1956 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
01/JUN/1992 INSTALL Raingauge (Type HS TB3A-0.2 S/N - 96/187) Surface Observations
25/MAY/2021 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 81109) Rainfall Intensity
25/MAY/2021 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 81109) Surface Observations
23/SEP/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 78842) Rainfall Intensity
23/SEP/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 78842) Surface Observations
06/AUG/2004 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 321090) Rainfall Intensity
06/AUG/2004 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 321090) Surface Observations
24/SEP/1996 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96/187) Rainfall Intensity
24/SEP/1996 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 78842) Rainfall Intensity
24/SEP/1996 SHARE Raingauge (Type Rimco TBRG (type unspecified) S/N - 321090) Rainfall Intensity
20/SEP/2018 UNSHARE Raingauge (Type Rimco 7499 TBRG S/N - 81109) 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 (No Electronic History)

Wind Speed

27/APR/2009 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - Unknown) Surface Observations
01/JUN/1992 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - WD72827/WS82147) Surface Observations
23/SEP/2000 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
01/SEP/1956 INSTALL Wind Run Anemometer (Type Munro S/N - CBM518) Surface Observations
27/APR/2009 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - WD/WS82147) Surface Observations
25/AUG/2008 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - WD72827/WS80246) Surface Observations
18/NOV/2010 REPLACE Wind Run Anemometer (Now Munro S/N - CBM522) Surface Observations
15/DEC/1998 REPLACE Wind Run Anemometer (Now Munro S/N - CBM7206) Surface Observations

Air Temperature

18/JUL/2021 INSTALL Humidity Probe (Type Vaisala HMP155A S/N - T1311038) Surface Observations
01/JUN/1992 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - NONE) Surface Observations
26/AUG/2009 REPLACE Temperature Probe - Dry Bulb (Now Rosemount ST2401 S/N - 0324) Surface Observations
27/FEB/2008 REPLACE Temperature Probe - Dry Bulb (Now Temp Control TCBMP01 S/N - 10136) Surface Observations
01/AUG/1956 INSTALL Thermohygrograph (Type Unknown S/N - Unknown) Surface Observations
01/JUN/1992 REMOVE Thermohygrograph (Type Unknown S/N - Unknown) Surface Observations
01/SEP/1956 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - M1973) Surface Observations
07/OCT/2020 INSTALL Thermometer, Mercury, Dry Bulb (Type WIKA S/N - 23067) Surface Observations
02/DEC/2020 REMOVE Thermometer, Mercury, Dry Bulb (Type WIKA S/N - 23067) Surface Observations
02/DEC/2020 REMOVE Thermometer, Mercury, Dry Bulb (Type WIKA S/N - 27582) Surface Observations
04/OCT/2002 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 19559) Surface Observations
05/FEB/2004 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 19559) Surface Observations

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Extended Climatological Station Metadata
All History

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

19/FEB/2007 REPLACE Thermometer, Mercury, Dry Bulb (Now WIKA S/N - 27582) 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
30/SEP/2019 - 25/MAY/2021	Cloud Height	0
19/JUL/2021 - 19/JUL/2021	Humidity	0
23/SEP/2000 - 12/MAR/2020	Pressure Trend	0
05/DEC/1995 - 25/MAY/2021	Wind Direction	4
05/DEC/1995 - 08/NOV/2020	Wet Bulb Temperature	4
07/AUG/1999 - 08/NOV/2020	Maximum Temperature	0
07/AUG/1999 - 08/NOV/2020	Soil Temperature 10cm	0
07/AUG/1999 - 08/NOV/2020	Soil Temperature 20cm	0
07/AUG/1999 - 08/NOV/2020	Soil Temperature 50cm	0
07/AUG/1999 - 08/NOV/2020	Soil Temperature 100cm	0
07/AUG/1999 - 25/MAY/2021	Wind Run	0
07/AUG/1999 - 08/NOV/2020	Minimum Temperature	0
07/AUG/1999 - 08/NOV/2020	Terrestrial Minimum Temperature	0
07/JUN/2018 - 12/MAR/2020	Visibility	0
02/AUG/2006 - 12/MAY/2021	RF Reflectivity	4
14/MAY/1995 - 25/MAY/2021	Pressure	0
23/SEP/2000 - 25/MAY/2021	Evaporation	0
05/DEC/1995 - 25/MAY/2021	Rainfall	7
05/DEC/1995 - 25/MAY/2021	Wind Speed	4
05/DEC/1995 - 19/JUL/2021	Air Temperature	0

Station Detail Changes

01/FEB/2021	CLASSIFICATION AWS Priority 3 - Standard (SLP3-AWS)
01/JUL/2011	CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT)
01/JUN/1992	CLASSIFICATION Building (FBL)
26/JUN/2002	CLASSIFICATION CLIMAT Stations (CLC)
26/JUN/2002	CLASSIFICATION CLIMAT TEMP Stations (CLT)
09/MAY/2006	CLASSIFICATION Category D (TAF D)
10/JAN/2011	CLASSIFICATION Critical (ASOSCRIT)
01/MAY/1997	CLASSIFICATION GCOS Surface Network (GSN)
14/FEB/1997	CLASSIFICATION GCOS Upper Air Network (GUAN)
01/JUL/2018	CLASSIFICATION HQ EVAPORATION (HQEVAP)
01/JUL/2018	CLASSIFICATION HQ RAINFALL (HQRAIN)
01/JUL/1998	CLASSIFICATION Information and Observations (MIO)

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Extended Climatological Station Metadata

All History

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Station Equipment History (continued)

Station Detail Changes(Continued)

27/SEP/2021 CLASSIFICATION Mastered in EAMS (EAMS)
01/MAY/1989 CLASSIFICATION National Benchmark Network for Agrometeorology (NBNA)
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)
01/SEP/1992 CLASSIFICATION Reference Climate Stations (RCS) ENDED 30-06-2011
14/FEB/1997 CLASSIFICATION Regional Basic Synoptic Network (RBSN)
10/JUN/2014 CLASSIFICATION Standard Aviation or Defence (AVSTD) ENDED 16-10-2020
21/DEC/2010 OBJECT Document/013017101101UQ Letter
02/DEC/2010 OBJECT Document/013017101202Letter
12/MAR/2020 OBJECT Document/013017200312Mast_Inspection
01/APR/2009 OBJECT Document/013017_Diurnal Variations
06/FEB/1995 OBJECT Document/13017 - Bar co-efficients
17/MAR/2020 OBJECT Document/ACOM Annual maintenance
27/SEP/2019 OBJECT Document/ACOM checklist 6m
26/SEP/2014 OBJECT Document/ASBESTOS REGISTER
26/MAR/2015 OBJECT Document/AWS SITE AUDIT
29/MAY/2019 OBJECT Document/AWS SITE AUDIT
17/APR/2013 OBJECT Document/BoM_Giles weather station the venue for a reconciliation celebration_17 Apr 2013
07/JUN/2018 OBJECT Document/CEILOMETER STATUS
25/MAY/2021 OBJECT Document/CEILOMETER STATUS
30/SEP/2019 OBJECT Document/CEILOMETER STATUS
04/APR/2013 OBJECT Document/CSIRO_Giles proposal
20/SEP/2017 OBJECT Document/EEHA giles 2017
23/MAR/2009 OBJECT Document/Giles Incident Report 090323
30/JUN/2008 OBJECT Document/Giles Survey Report
08/FEB/2016 OBJECT Document/Pressure vessel inspection record
10/MAY/2017 OBJECT Document/Pressure vessel inspection record
17/MAR/2018 OBJECT Document/Pressure vessel inspection record
30/JAN/2018 OBJECT Document/RADAR MAINTENANCE CHECKSHEET
05/SEP/2013 OBJECT Document/RAPIC TX CAL DATA
08/FEB/2016 OBJECT Document/RBL MAINTENANCE CHECKSHEET
26/JUL/2016 OBJECT Document/RBL MAINTENANCE CHECKSHEET
23/FEB/2017 OBJECT Document/RBL MAINTENANCE CHECKSHEET
19/MAR/2018 OBJECT Document/RBL MAINTENANCE CHECKSHEET
27/SEP/2019 OBJECT Document/RBL MAINTENANCE CHECKSHEET
14/OCT/2019 OBJECT Document/RBL MAINTENANCE CHECKSHEET
17/MAR/2020 OBJECT Document/RBL MAINTENANCE CHECKSHEET
18/MAR/2020 OBJECT Document/RBL MAINTENANCE CHECKSHEET
10/SEP/2015 OBJECT Document/RSS VALIDATION RECORD
04/OCT/2002 OBJECT Document/SKYLINE DATA
27/SEP/2016 OBJECT Document/SKYLINE DATA
13/SEP/2011 OBJECT Document/SKYLINE DATA

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Station Equipment History (continued)

Station Detail Changes(Continued)

07/JUN/2018 OBJECT Document/VISIBILITY METER STATUS
30/SEP/2019 OBJECT Document/VISIBILITY METER STATUS
01/JAN/2016 OBJECT Document/YGLS_F611_01012016
21/FEB/2011 OBJECT Document/metconsole_stationconfig_013017110221
01/AUG/1956 STATION - (nondb seeding) Opened
01/AUG/1956 STATION - (nondb seeding) aero_ht Changed to 580
01/AUG/1956 STATION - (nondb seeding) bar_ht Changed to 599
01/AUG/1956 STATION - (nondb seeding) bar_ht_deriv Changed to SURVEY
01/AUG/1956 STATION - (nondb seeding) name Changed to GILES METEOROLOGICAL OFFICE
01/AUG/1956 STATION - (nondb seeding) stn_ht Changed to 598
01/AUG/1956 STATION - (nondb seeding) stn_ht_deriv Changed to SURVEY
01/AUG/1956 STATION - (nondb seeding) wmo_num Changed to 94461
01/AUG/1956 STATION aviation_id Changed to YGLS
01/AUG/1956 STATION latitude Changed to -25.03413WSG 84
01/AUG/1956 STATION latlon_deriv Changed to GPS
01/AUG/1956 STATION longitude Changed to 128.30098WSG 84
23/SEP/2000 STATION lu_0_100m Changed to Open farmland, grassland or tundra
23/SEP/2000 STATION lu_100m_1km Changed to Open farmland, grassland or tundra
23/SEP/2000 STATION lu_1km_10km Changed to Open farmland, grassland or tundra
24/JUN/1998 STATION soil_type Changed to clay
24/JUN/1998 STATION surface_type Changed to bare ground

System Changes

21/DEC/2010 SYSTEM External Clients Commenced
01/JAN/1956 SYSTEM Infrastructure Commenced
20/SEP/2018 SYSTEM Rainfall Intensity Ceased
01/JAN/1956 SYSTEM Rainfall Intensity Commenced
04/JAN/2010 SYSTEM Reference Standards Commenced
01/AUG/1956 SYSTEM Surface Observations Commenced
01/AUG/1956 SYSTEM Upper Air Commenced
01/JAN/1992 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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