



## Basic Climatological Station Metadata

Current status

Metadata compiled: 28 JUL 2021

**Station:** MURGANELLA AIRSTRIP

**Bureau of Meteorology station number:** 014309

**Bureau of Meteorology district name:** Darwin-Daly

**State:** NT

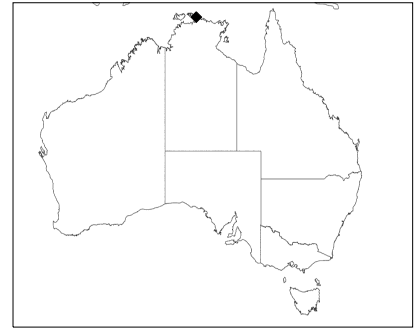
**World Meteorological Organization number:** 94109

**Identification:** YMNL

**Network Classification:**

**Station purpose:**

**Automatic Weather Station:** Telmet 320



Current Station Location				
<b>Latitude</b>	<b>Decimal</b>	-11.5485	<b>Hour Min Sec</b>	11°32'55"S
<b>Longitude</b>	<b>Decimal</b>	132.9266	<b>Hour Min Sec</b>	132°55'36"E
<b>Station Height</b>	9.5 m	<b>Barometer Height</b>	10.9 m	
<b>Method of station geographic positioning</b>			GPS	

**Year opened:** 2012

**Status:** Open

## Station summary

No summary for this site has been written as yet.

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

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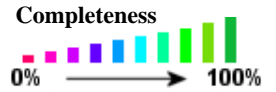
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Current status

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<b>Bureau No.:</b> 014309	<b>WMO No.:</b> 94109	<b>Aviation ID:</b> YMNL	<b>Opened:</b> 05 Oct 2012	<b>Current Status:</b> Still open	
<b>Latitude:</b> -11.5485	<b>Longitude:</b> 132.9266	<b>Elevation:</b> 9.5 m	<b>Barometer Elev:</b> 10.9 m	<b>Metadata compiled:</b> 28 JUL 2021	

## 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
MAXIMUM AIR TEMPERATURE	OCT 2012	JUN 2021	95.1	33	4
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0	2 0 0 0	0 0 0 0
MAXIMUM WIND GUST SPEED	OCT 2012	JUN 2021	89.3	128	7
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0	2 0 0 0	0 0 0 0
WIND RUN ABOVE 10 FEET	APR 2013	JUN 2021	88.4	167	6
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0	2 0 0 0	0 0 0 0
RAINFALL	OCT 2012	JUL 2021	92	N/A	N/A
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0	2 0 0 0	0 0 0 0

### 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	OCT 2012	JUN 2021	99.2	28.2	17	0
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0	2 0 0 0	0 0 0 0	0 0 0 0
DEW POINT	OCT 2012	JUN 2021	91.7	28.2	75	6
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0	2 0 0 0	0 0 0 0	0 0 0 0
MEAN SEA LEVEL PRESSURE	DEC 2012	JUN 2021	95.7	28.9	37	3
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0	2 0 0 0	0 0 0 0	0 0 0 0
WIND SPEED	OCT 2012	JUN 2021	95.9	28.1	60	2
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0	2 0 0 0	0 0 0 0	0 0 0 0

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<b>Bureau No.:</b>	014309	<b>WMO No.:</b>	94109	<b>Aviation ID:</b>	YMNL
<b>Latitude:</b>	-11.5485	<b>Longitude:</b>	132.9266	<b>Elevation:</b>	9.5 m
				<b>Barometer Elev:</b>	10.9 m
				<b>Opened:</b>	05 Oct 2012
				<b>Current Status:</b>	Still open
				<b>Metadata compiled:</b>	28 JUL 2021

### RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	MAY 2016	NOV 2016	19.5	49	4
1	1	1	1	2	
8	9		9	0	
5	0		5	0	
0	0		0	0	

### ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	OCT 2012	JUL 2021	97.8	1408.8	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	OCT 2012	JUL 2021	98.2	47.1	N/A	0

### THERE ARE NO UPPER-AIR EDT DATA HOLDINGS

#### Holdings calculated up to 01 Jul 2021

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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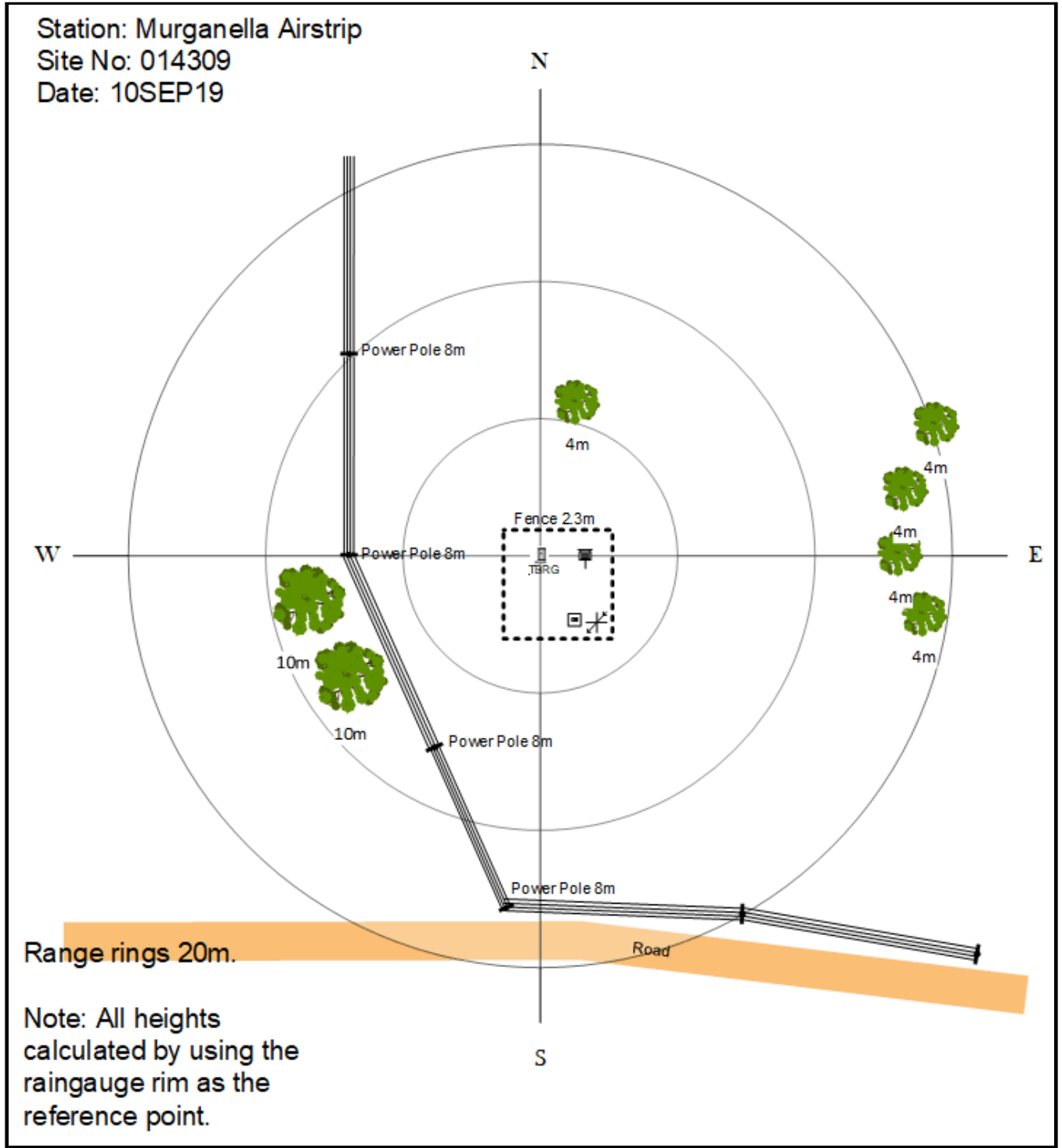
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### Instrument Location and Surrounding Features

10/09/2019(most recent)



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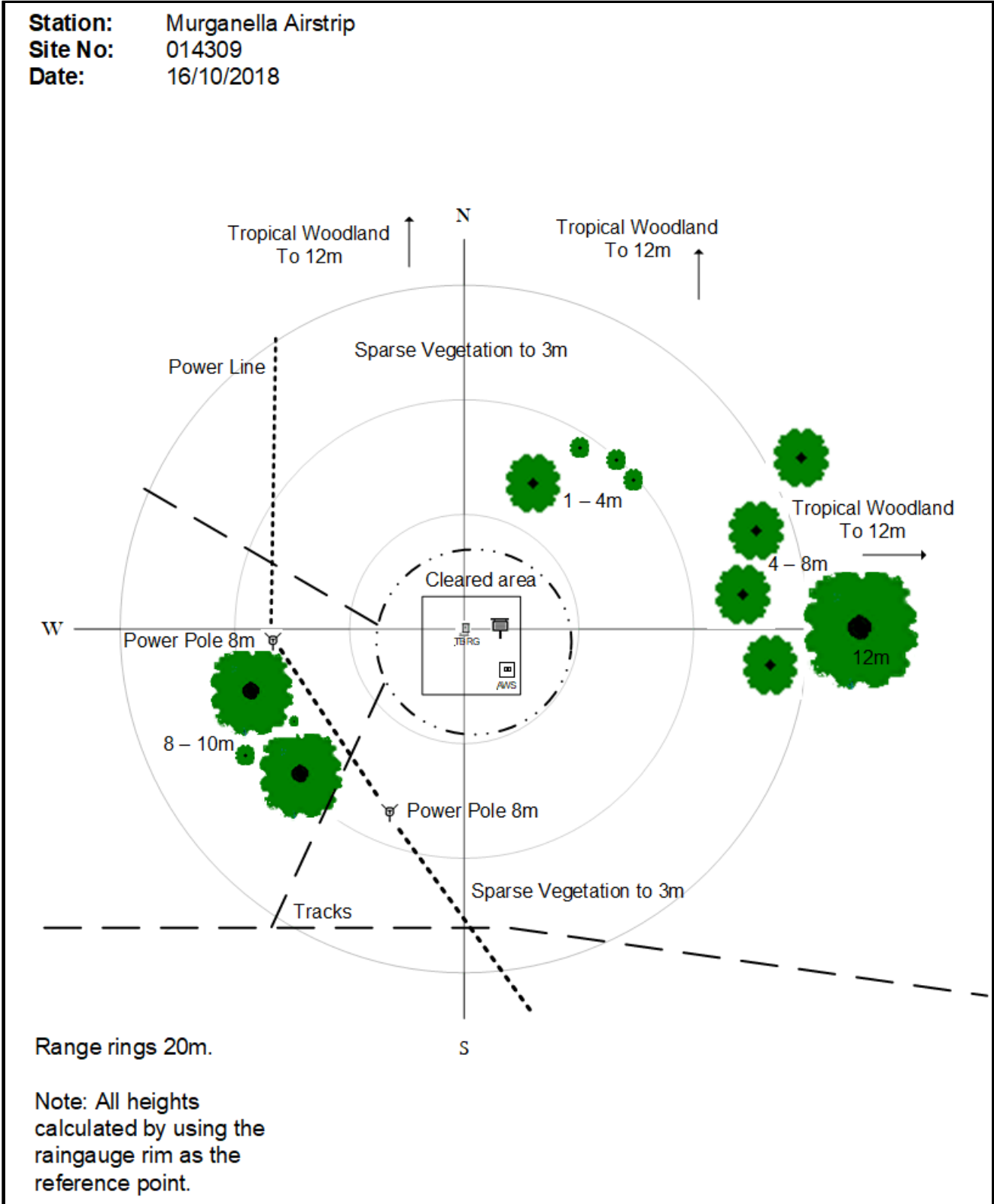
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### Instrument Location and Surrounding Features

16/10/2018



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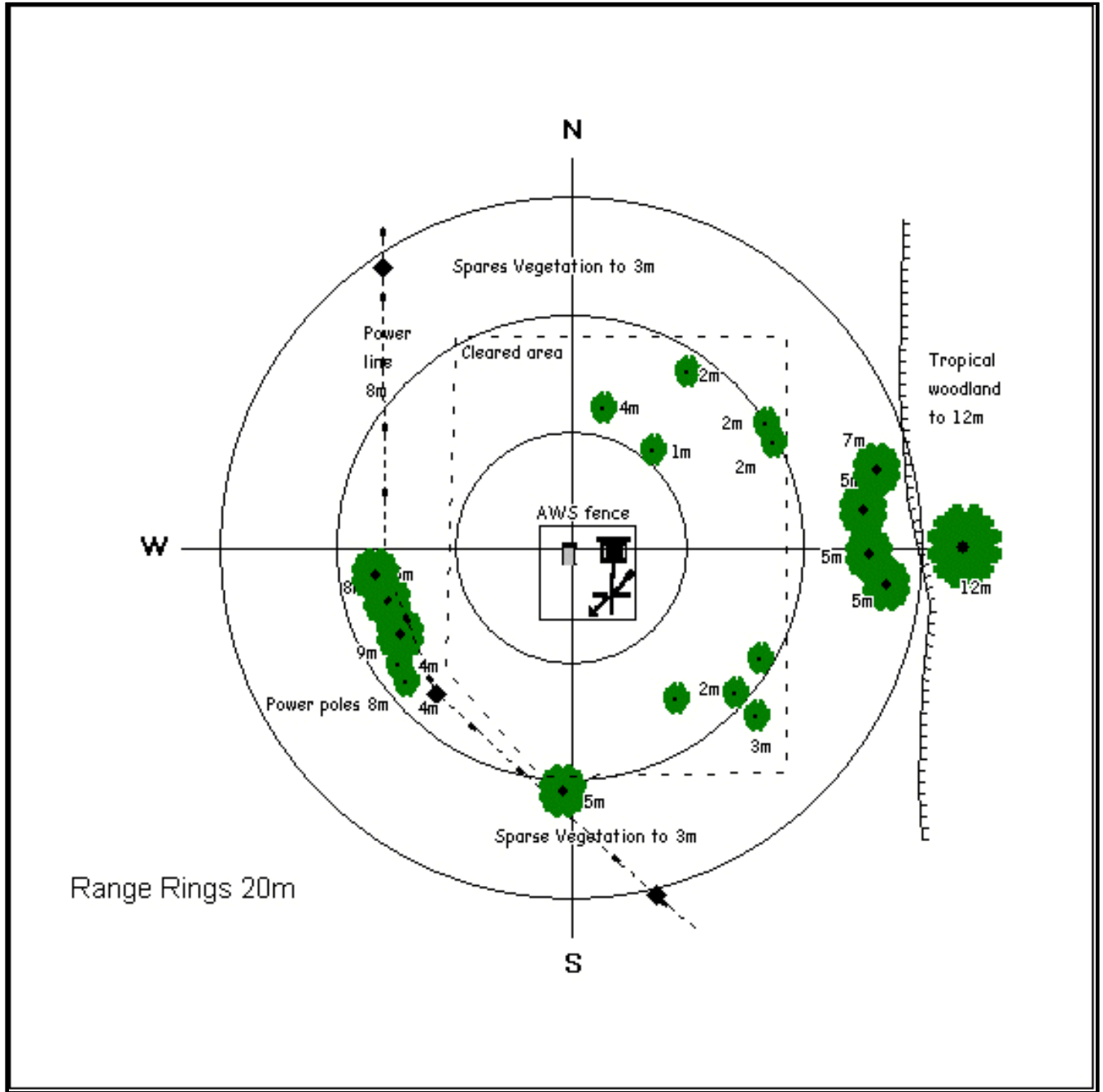
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### Instrument Location and Surrounding Features

25/10/2017



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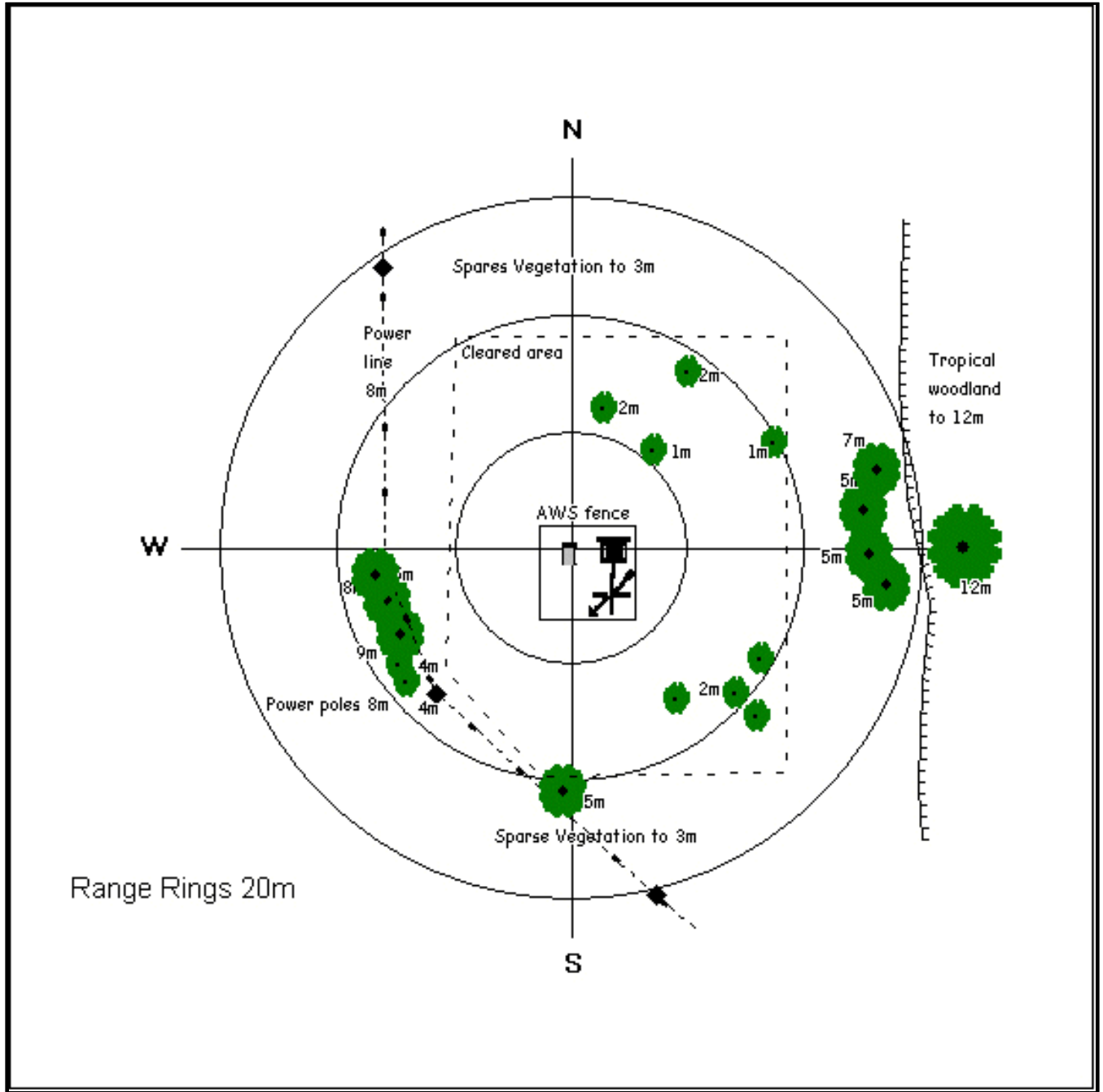
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### Instrument Location and Surrounding Features

09/11/2016



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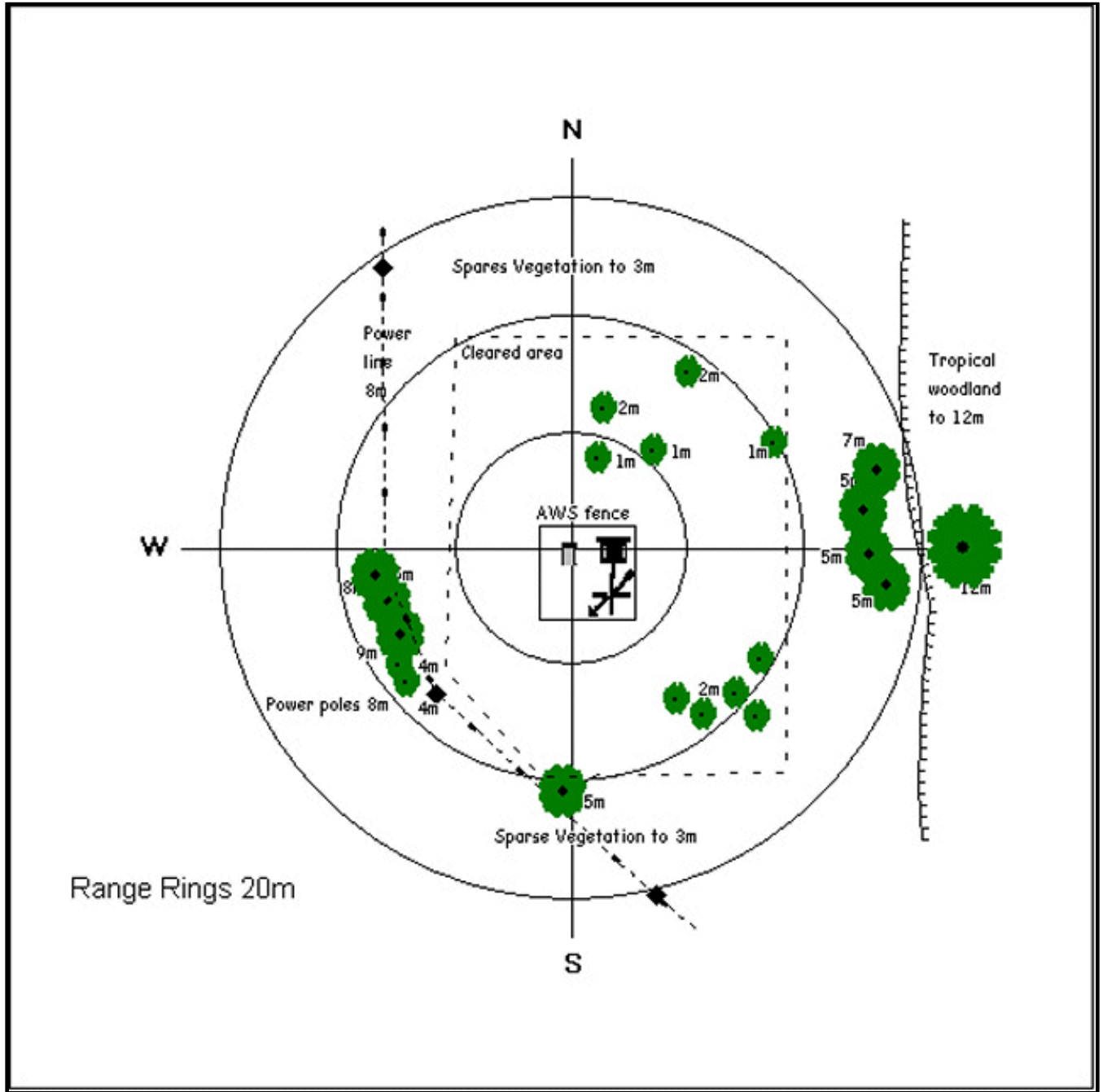
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### Instrument Location and Surrounding Features

13/10/2015



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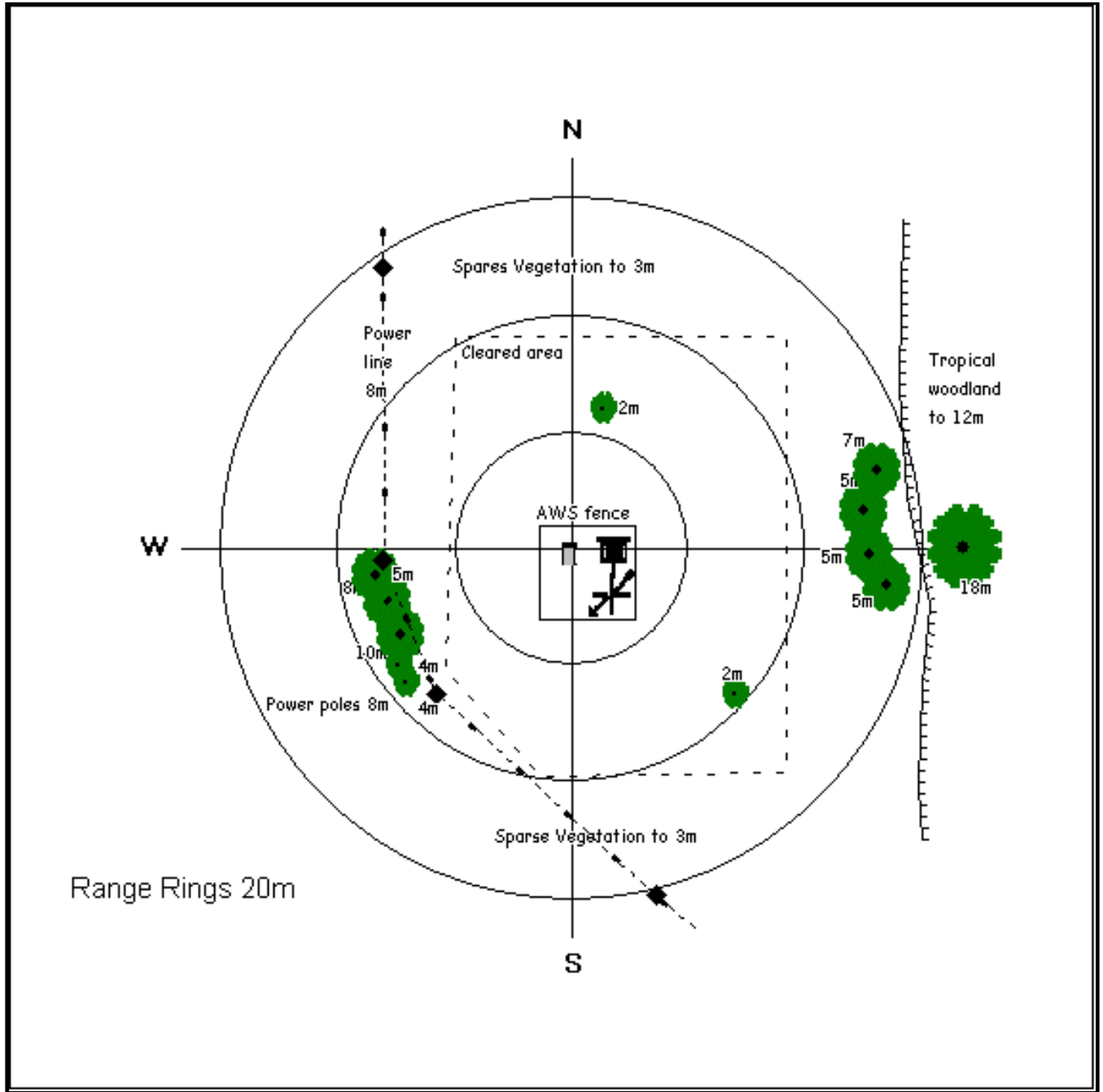
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### Instrument Location and Surrounding Features

13/10/2014



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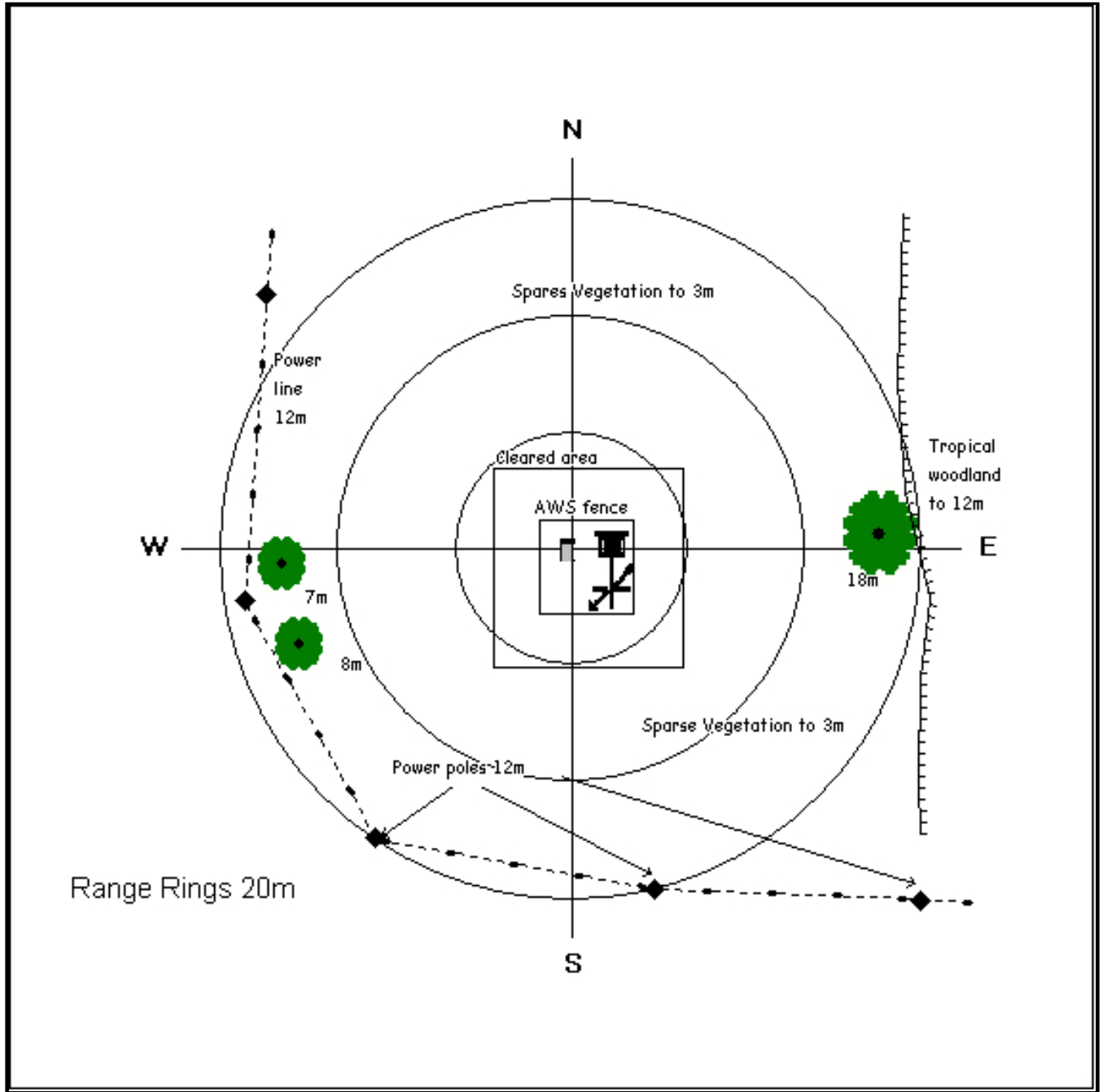
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### Instrument Location and Surrounding Features

05/10/2012



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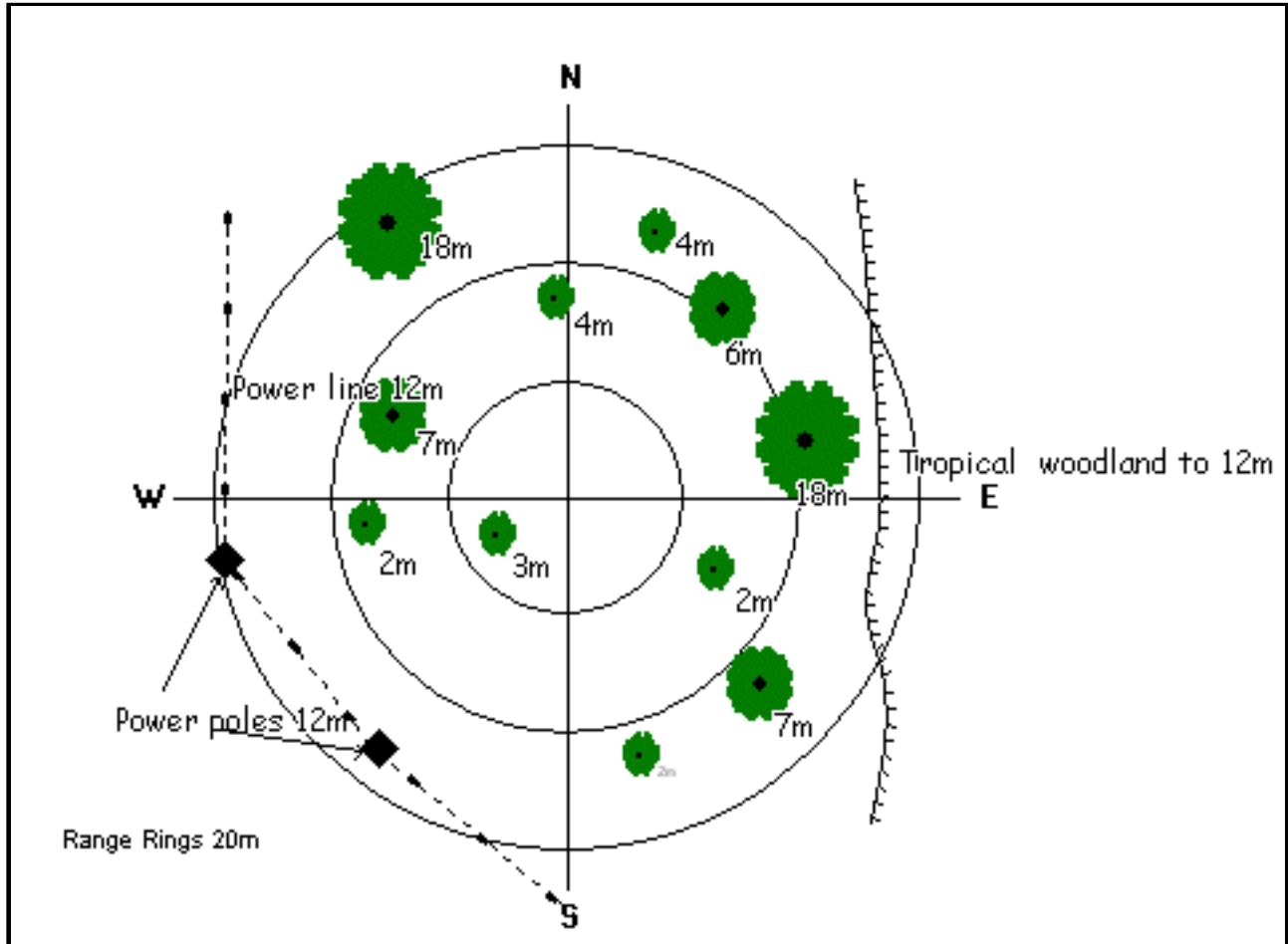
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### Instrument Location and Surrounding Features

21/12/2011



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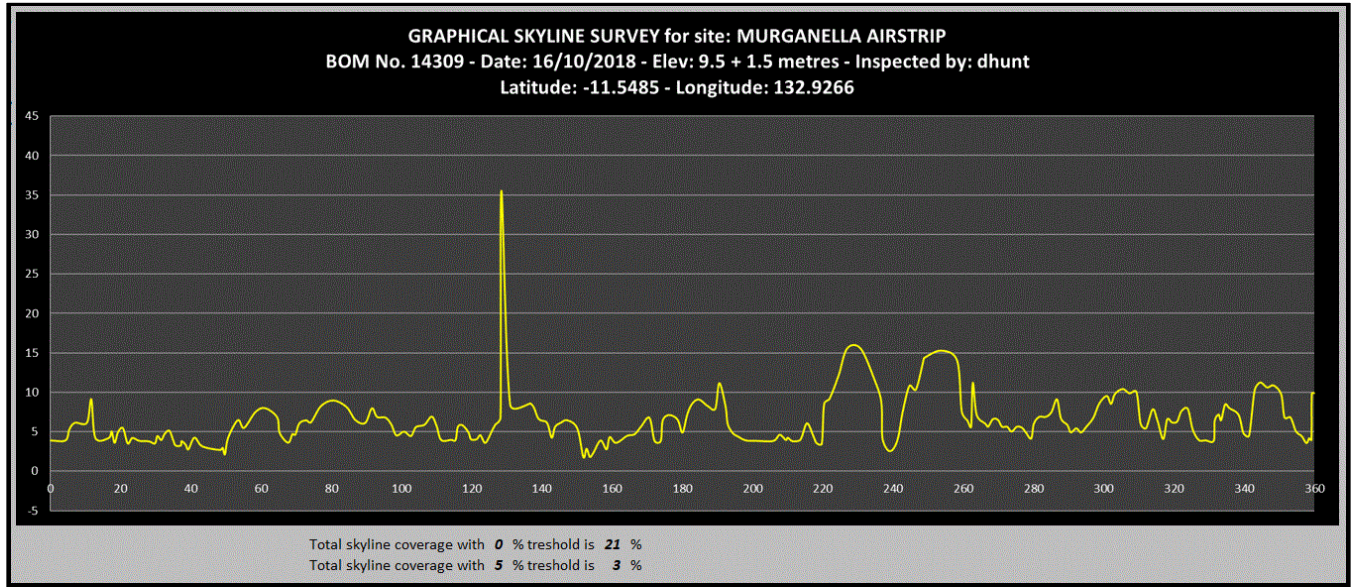
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							<b>Current Status:</b>	Still open
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### Skyline Diagram

16/10/2018(most recent)



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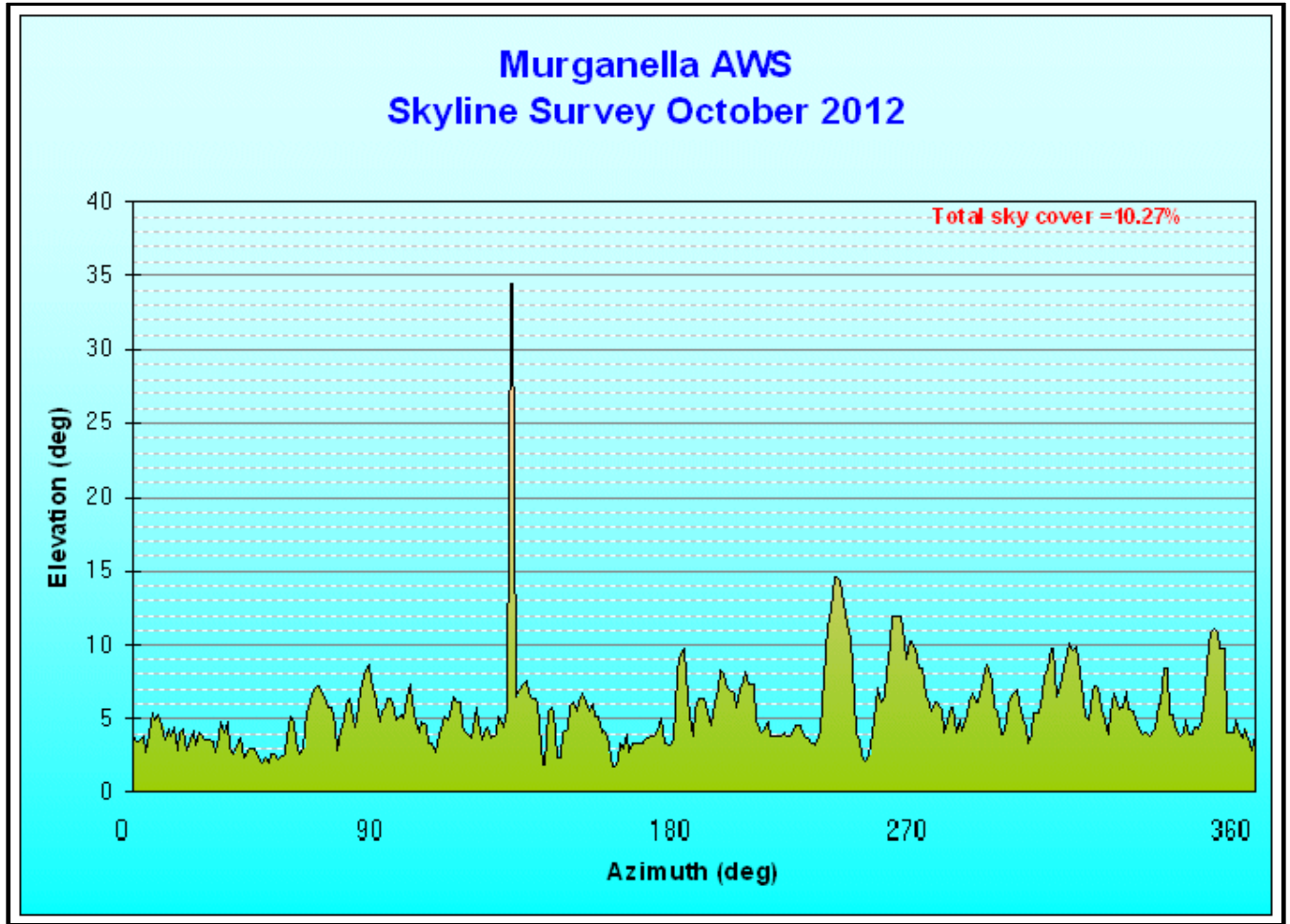
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### Skyline Diagram

05/10/2012



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### Station Observation Program Summary (Surface Observations) 28 JUL 2021 (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	-	-	-	-	-	-	-	-

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### Station Equipment History

#### Equipment Install/Remove

Cloud Height (No Electronic History)

River Height (No Electronic History)

Wind Run (No Electronic History)

Spectral Radiation (No Electronic History)

Sea Surface Temperature (No Electronic History)

Sea Water Temperature (No Electronic History)

Evaporation (No Electronic History)

Minimum Temperature (No Electronic History)

Soil Temperature 50cm (No Electronic History)

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Maximum Temperature (No Electronic History)

Soil Temperature 20cm (No Electronic History)

Solar Radiation (No Electronic History)

Soil Temperature 5cm (No Electronic History)

Oxygen Content (No Electronic History)

Sea Water Level (No Electronic History)

Surface Inclination (No Electronic History)

Terrestrial Minimum Temperature (No Electronic History)

Visibility (No Electronic History)

Solar Radiation (Direct) (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

04/OCT/2012 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 96851) Surface Observations

04/OCT/2012 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 96851) Surface Observations

04/OCT/2012 INSTALL Mast Anemometer (Type Pivot, SS 10m S/N - NONE) Infrastructure

16/OCT/2018 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 80250) Surface Observations

14/AUG/2013 REPLACE Mast Anemometer (Now Pivot, SS 10m S/N - NONE) Infrastructure

Air Temperature

04/OCT/2012 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 60150682) Surface Observations

13/OCT/2014 REPLACE Humidity Probe (Now Rotronics MP101A-T4-W4W S/N - 17168-005) Surface Observations

13/OCT/2015 REPLACE Humidity Probe (Now Rotronics MP101A-T4-W4W S/N - 61422020) Surface Observations

04/OCT/2012 INSTALL Temperature Probe - Dry Bulb (Type WIKA TR40 S/N - 113070-29) Surface Observations

Wet Bulb Temperature (No Electronic History)

Lightning (No Electronic History)

Turbidity (No Electronic History)

Total Column Ozone Amount (No Electronic History)

Pressure

04/OCT/2012 INSTALL Barometer (Type Vaisala PTB330B (General Use) S/N - G2310006) Surface Observations

05/OCT/2012 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - G2110021) Surface Observations

Humidity

04/OCT/2012 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 60150682) Surface Observations

13/OCT/2014 REPLACE Humidity Probe (Now Rotronics MP101A-T4-W4W S/N - 17168-005) Surface Observations

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## Extended Climatological Station Metadata

All History

<b>Station:</b>	MURGANELLA AIRSTRIP		<b>Location:</b>	MURGANELLA AIRSTRIP		<b>State:</b>	NT
<b>Bureau No.:</b>	014309	<b>WMO No.:</b>	94109	<b>Aviation ID:</b>	YMNL	<b>Opened:</b>	05 Oct 2012
<b>Latitude:</b>	-11.5485	<b>Longitude:</b>	132.9266	<b>Elevation:</b>	9.5 m	<b>Barometer Elev:</b>	10.9 m
<b>Current Status:</b>							Still open
<b>Metadata compiled:</b>							28 JUL 2021

### Station Equipment History (continued)

#### Equipment Install/Remove(Continued)

13/OCT/2015 REPLACE Humidity Probe (Now Rotronics MP101A-T4-W4W S/N - 61422020) Surface Observations

**Sunshine Hours (No Electronic History)**

**Pressure Trend (No Electronic History)**

**Snow Height (No Electronic History)**

**Wind Speed**

04/OCT/2012 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 96851) Surface Observations

04/OCT/2012 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 96851) Surface Observations

04/OCT/2012 INSTALL Mast Anemometer (Type Pivot, SS 10m S/N - NONE) Infrastructure

16/OCT/2018 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 80250) Surface Observations

14/AUG/2013 REPLACE Mast Anemometer (Now Pivot, SS 10m S/N - NONE) Infrastructure

**Rainfall**

04/OCT/2012 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - 99616) Rainfall Intensity

04/OCT/2012 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - 99616) Surface Observations

16/OCT/2018 UNSHARE Raingauge (Type Rimco 7499 TBRG S/N - 99616) Rainfall Intensity

**Soil Temperature 100cm (No Electronic History)**

**Soil Temperature 10cm (No Electronic History)**

**Solar Radiation (Long Wave) (No Electronic History)**

**RF Reflectivity (No Electronic History)**

The following table summarises information on field performance checks available electronically over the period indicated. The number of instances an instrument was found to fail field performance checks should only be used as a guide. A system of data quality flags is implemented by the Bureau of Meteorology to indicate the data quality of an observation as determined by a multi-stage quality control process.

Available Date Range	Element	Fail Field Performance Check
04/OCT/2012 - 02/SEP/2020	Wind Direction	3
04/OCT/2012 - 02/SEP/2020	Air Temperature	0
04/OCT/2012 - 02/SEP/2020	Pressure	1
04/OCT/2012 - 02/SEP/2020	Humidity	0
04/OCT/2012 - 02/SEP/2020	Wind Speed	3
04/OCT/2012 - 02/SEP/2020	Rainfall	2

#### Station Detail Changes

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

05/OCT/2012 CLASSIFICATION Miscellaneous (FMS)

01/JUL/2017 CLASSIFICATION Observing Operations Hub - Darwin (OOH-D)

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

05/OCT/2012 CLASSIFICATION Standard (ASOSSTD)

10/SEP/2019 OBJECT Document/Murganella Mast Audit - 10SEP19

26/SEP/2012 OBJECT Document/SITE APPROVAL

16/OCT/2018 OBJECT Document/SKYLINE DATA

05/OCT/2012 OBJECT Document/SKYLINE DATA

12/MAY/2016 OBJECT Document/TELVENT AWS CONFIGURATION

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## Extended Climatological Station Metadata

All History

<b>Station:</b>	MURGANELLA AIRSTRIP		<b>Location:</b>	MURGANELLA AIRSTRIP		<b>State:</b>	NT
<b>Bureau No.:</b>	014309	<b>WMO No.:</b>	94109	<b>Aviation ID:</b>	YMNL	<b>Opened:</b>	05 Oct 2012
<b>Latitude:</b>	-11.5485	<b>Longitude:</b>	132.9266	<b>Elevation:</b>	9.5 m	<b>Barometer Elev:</b>	10.9 m
<b>Current Status:</b>							Still open
<b>Metadata compiled:</b>							28 JUL 2021

### Station Equipment History (continued)

#### Station Detail Changes(Continued)

16/AUG/2012 OBJECT Document/TELVENT AWS CONFIGURATION  
05/OCT/2012 STATION Opened  
07/NOV/2011 STATION Proposed  
20/SEP/2012 STATION aero\_ht Changed to 11.5  
20/SEP/2012 STATION aero\_ht\_deriv Changed to Barometer  
17/JUL/2012 STATION aviation\_id Changed to YMNL  
20/SEP/2012 STATION bar\_ht Changed to 10.9  
20/SEP/2012 STATION bar\_ht\_deriv Changed to SURVEY  
13/OCT/2014 STATION latitude Changed to -11.54846changed due to increased accuracy of GPS reading  
07/NOV/2011 STATION latitude Changed to -11.54847  
07/NOV/2011 STATION latlon\_deriv Changed to GPS  
13/OCT/2014 STATION latlon\_deriv Changed to GPS  
13/OCT/2014 STATION latlon\_error Changed to 2  
07/NOV/2011 STATION latlon\_error Changed to 3  
13/OCT/2014 STATION longitude Changed to 132.92662changed due to increased accuracy of GPS reading  
07/NOV/2011 STATION longitude Changed to 132.92681  
21/DEC/2011 STATION lu\_0\_100m Changed to Airport  
21/DEC/2011 STATION lu\_100m\_1km Changed to Forest  
21/DEC/2011 STATION lu\_1km\_10km Changed to Coastal or Island  
07/NOV/2011 STATION name Changed to MURGANELLA AIRSTRIP  
21/DEC/2011 STATION soil\_type Changed to red soil  
21/DEC/2011 STATION stn\_ht Changed to 34  
20/SEP/2012 STATION stn\_ht Changed to 9.5  
21/DEC/2011 STATION stn\_ht\_deriv Changed to GPS  
20/SEP/2012 STATION stn\_ht\_deriv Changed to SURVEY  
21/DEC/2011 STATION surface\_type Changed to partly covered by grass  
17/JUL/2012 STATION wmo\_num Changed to 94109

#### System Changes

04/OCT/2012 SYSTEM Infrastructure Commenced  
16/OCT/2018 SYSTEM Rainfall Intensity Ceased  
04/OCT/2012 SYSTEM Rainfall Intensity Commenced  
02/AUG/2012 SYSTEM Surface Observations 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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