Australian Government
Bureau of Meteorology

Basic Climatological Station Metadata

Current status

Metadata compiled: 26 JUL 2025

Station: DARWIN AIRPORT

Bureau of Meteorology station number: 014015
Bureau of Meteorology district name: Darwin-Daly
State: NT

World Meteorological Organization number: 94120
Identification: YPDN

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**	-12.4239	**Hour Min Sec**	12°25'26"S
Longitude	**Decimal**	130.8925	**Hour Min Sec**	130°53'33"E
Station Height	30.4 m	**Barometer Height**	31.3 m	
Method of station geographic positioning			SURVEY	

Year opened: 1941
Status: Open

Station summary

No summary for this site has been written as yet.

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Australian Government
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Basic Climatological Station Metadata

Current status

Station:	DARWIN AIRPORT			**Location:**	DARWIN AIRPORT			**State:**	NT
Bureau No.:	014015	**WMO No.:**	94120	**Aviation ID:**	YPDN	**Opened:**	01 Jan 1941	**Current Status:**	Still open
Latitude:	-12.4239	**Longitude:**	130.8925	**Elevation:**	30.4 m	**Barometer Elev:**	31.3 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.

Completeness

0% → 100%

DAILY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
EVAPORATION	AUG 1957	JUN 2025	98.4	357	1
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	JUL 1968	JUN 2013	93.9	326	22
GROUND MINIMUM TEMPERATURE	MAR 1991	JUN 2025	99.4	67	0
MAXIMUM AIR TEMPERATURE	FEB 1941	JUN 2025	99.2	124	3
MAXIMUM WIND GUST SPEED	FEB 1947	JUN 2025	82.6	410	150
SUNSHINE HOURS	JUL 1951	JUN 2025	99.4	143	0
WIND RUN ABOVE 10 FEET	MAR 1995	JUN 2025	98.6	155	0
WIND RUN BELOW 10 FEET	JUL 1968	JUN 2025	99.3	141	0
RAINFALL	JAN 1941	JUL 2025	100	N/A	N/A

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Prepared by the Bureau of Meteorology.
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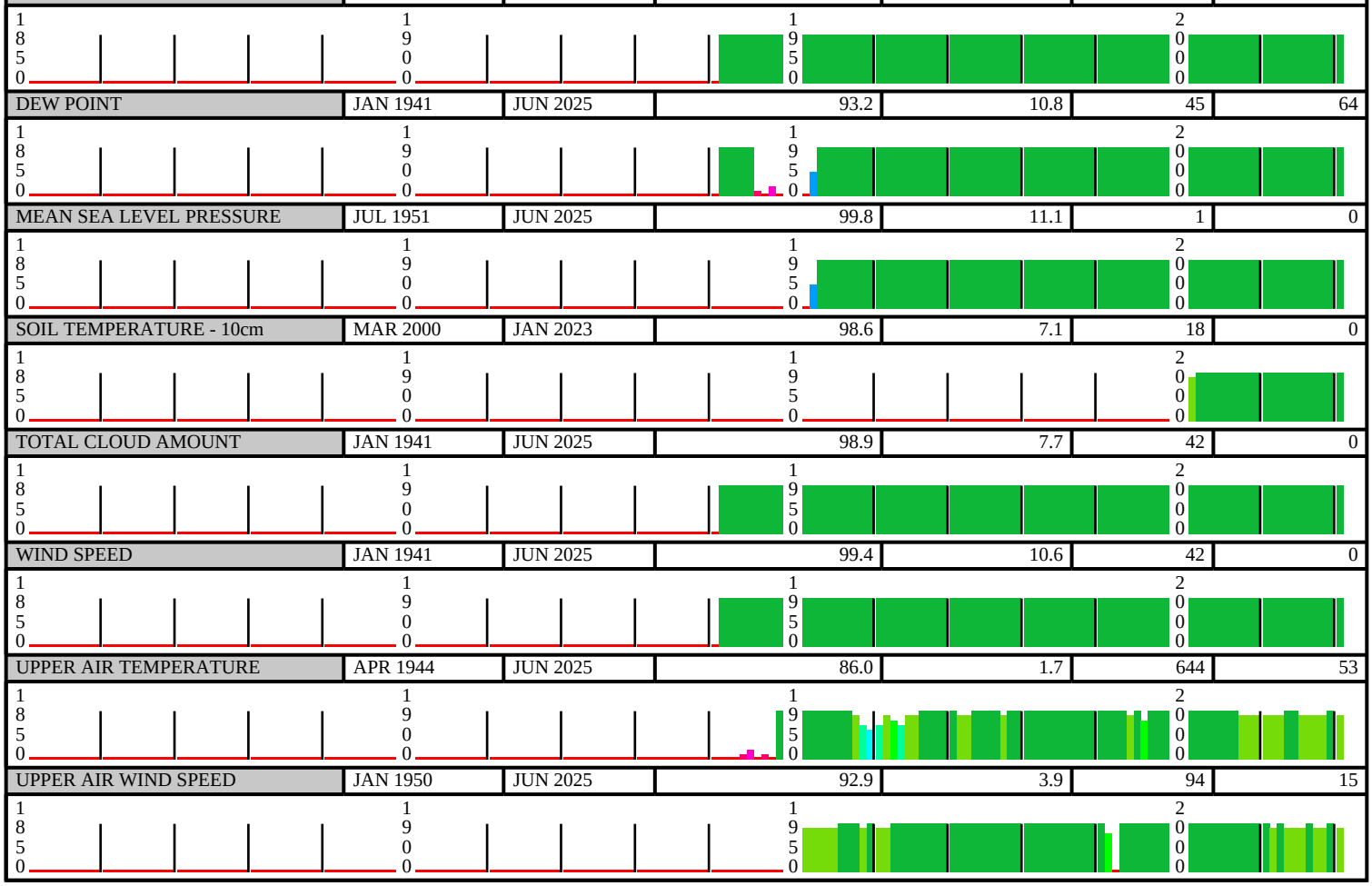
HOURLY DATA HOLDINGS - from 1 to 24 observations per day

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
AIR TEMPERATURE	JAN 1941	JUN 2025	99.3	10.6	41	1
DEW POINT	JAN 1941	JUN 2025	93.2	10.8	45	64
MEAN SEA LEVEL PRESSURE	JUL 1951	JUN 2025	99.8	11.1	1	0
SOIL TEMPERATURE - 10cm	MAR 2000	JAN 2023	98.6	7.1	18	0
TOTAL CLOUD AMOUNT	JAN 1941	JUN 2025	98.9	7.7	42	0
WIND SPEED	JAN 1941	JUN 2025	99.4	10.6	42	0
UPPER AIR TEMPERATURE	APR 1944	JUN 2025	86.0	1.7	644	53
UPPER AIR WIND SPEED	JAN 1950	JUN 2025	92.9	3.9	94	15



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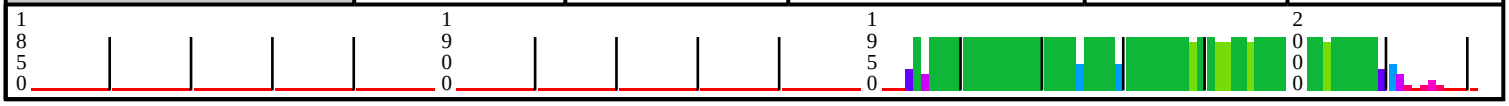
RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	SEP 1953	MAR 2016	84.0	876	91



ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	NOV 2001	JUL 2025	99.3	1429.9	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	JAN 1985	JUL 2025	104.1	50.0	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	May 2000	Sep 2018	N/A	2.0	313	0
Wind, temperature and pressure flights	May 1991	Jun 2018	N/A	2.0	67	0

Holdings calculated up to 01 Jul 2025

The % complete figure is the completeness of observations averaged over all months of record, for the given station and observation type, taking gaps into account. For hourly holdings, the completeness is relative to the maximum number of daily observations for the site each month, and is therefore an estimate. For daily holdings, the completeness figure shown is exact.

The single days missed figure is the total number of days for which no observation was received, not including full missed months. The full months missed figure is the total of full month gaps over the period of record. Where an element is not included assumptions can generally be made about availability, and the list to use has been suggested below.

Unlisted element	Listed element to use
Minimum air temperature	Maximum air temperature
Wet bulb temperature	Dew point
Soil temperature at 20, 50 & 100cm	10cm soil temperature
Relative humidity	Dew point
Minimum temp. of water in evaporimeter	Evaporimeter - max water temp
Visual observations eg. weather, visibility	Total cloud amount
Sea related observations	Sea state

Extended Climatological Station Metadata
All History

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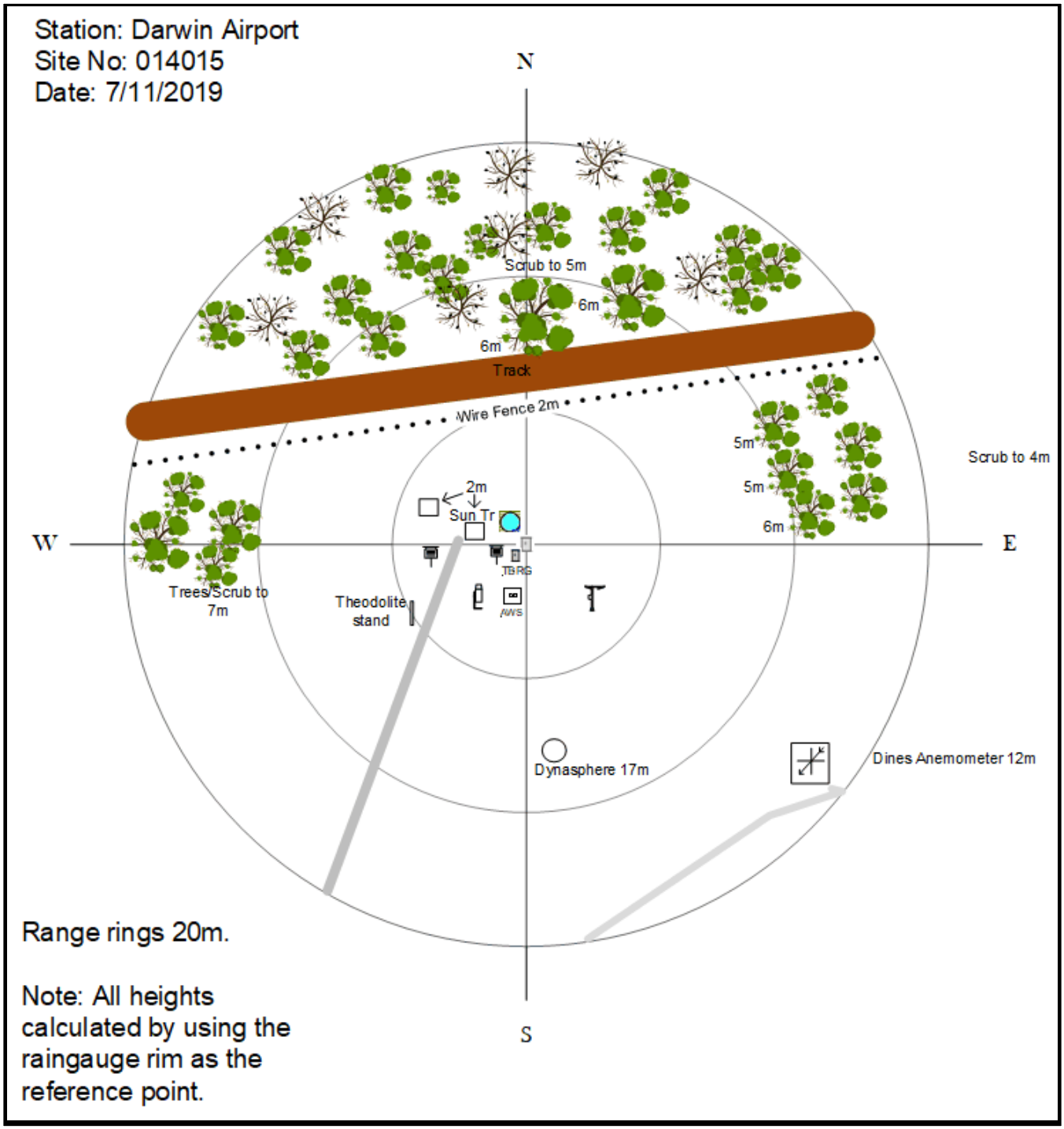
Instrument Location and Surrounding Features
07/11/2019(most recent)



Extended Climatological Station Metadata
All History

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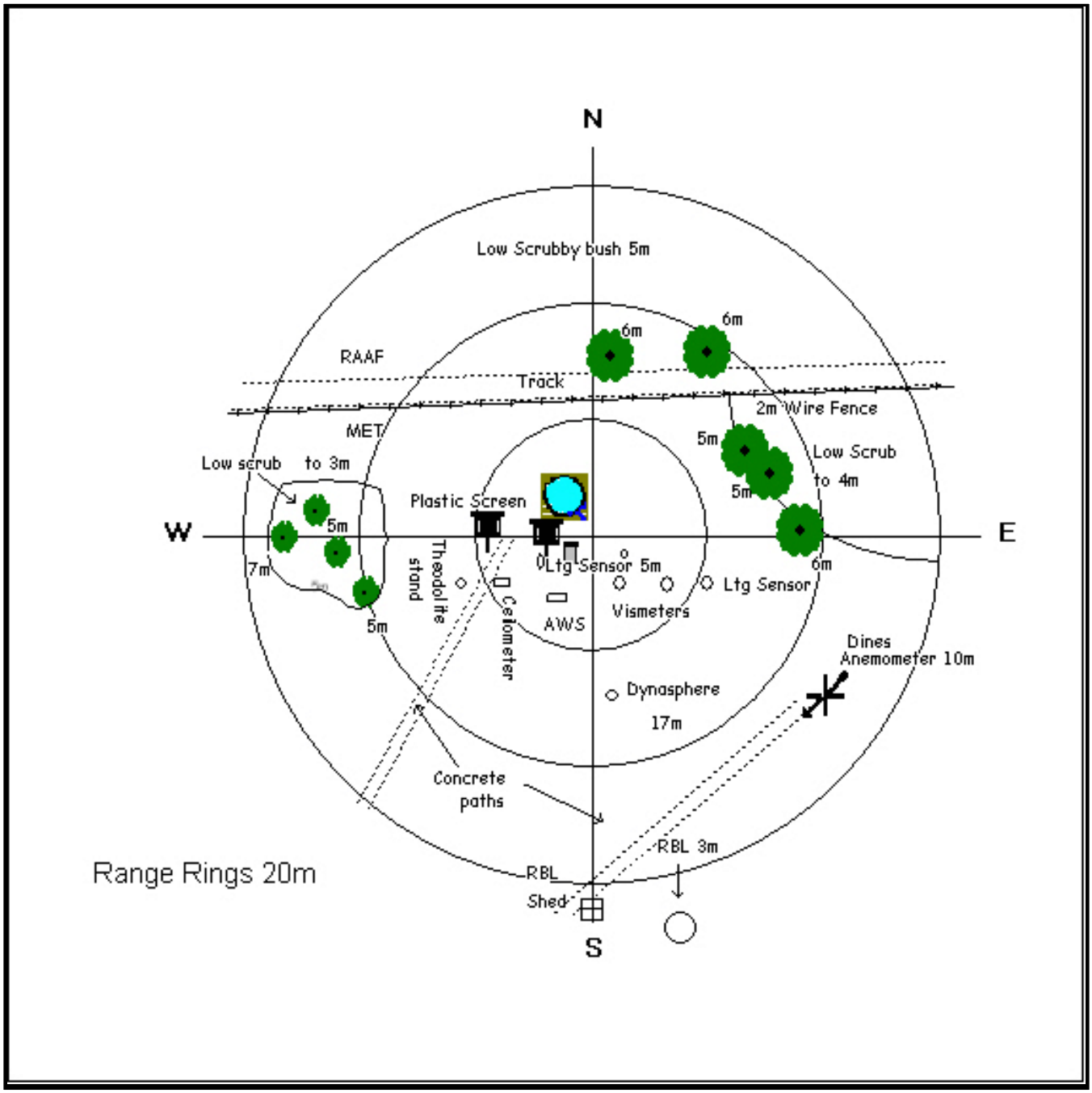
Instrument Location and Surrounding Features
28/03/2019



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Extended Climatological Station Metadata
All History

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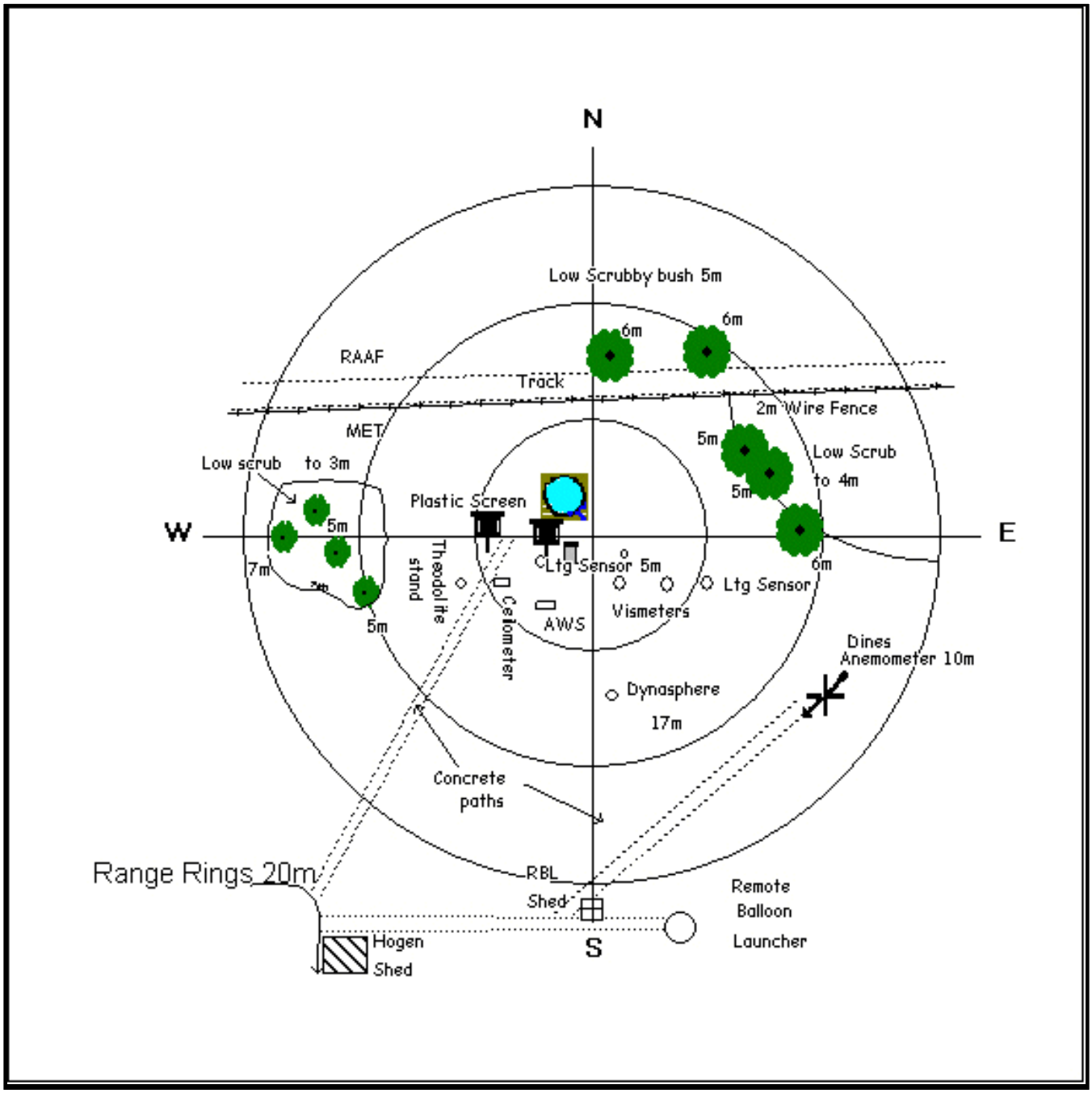
Instrument Location and Surrounding Features
23/12/2015



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Extended Climatological Station Metadata
All History

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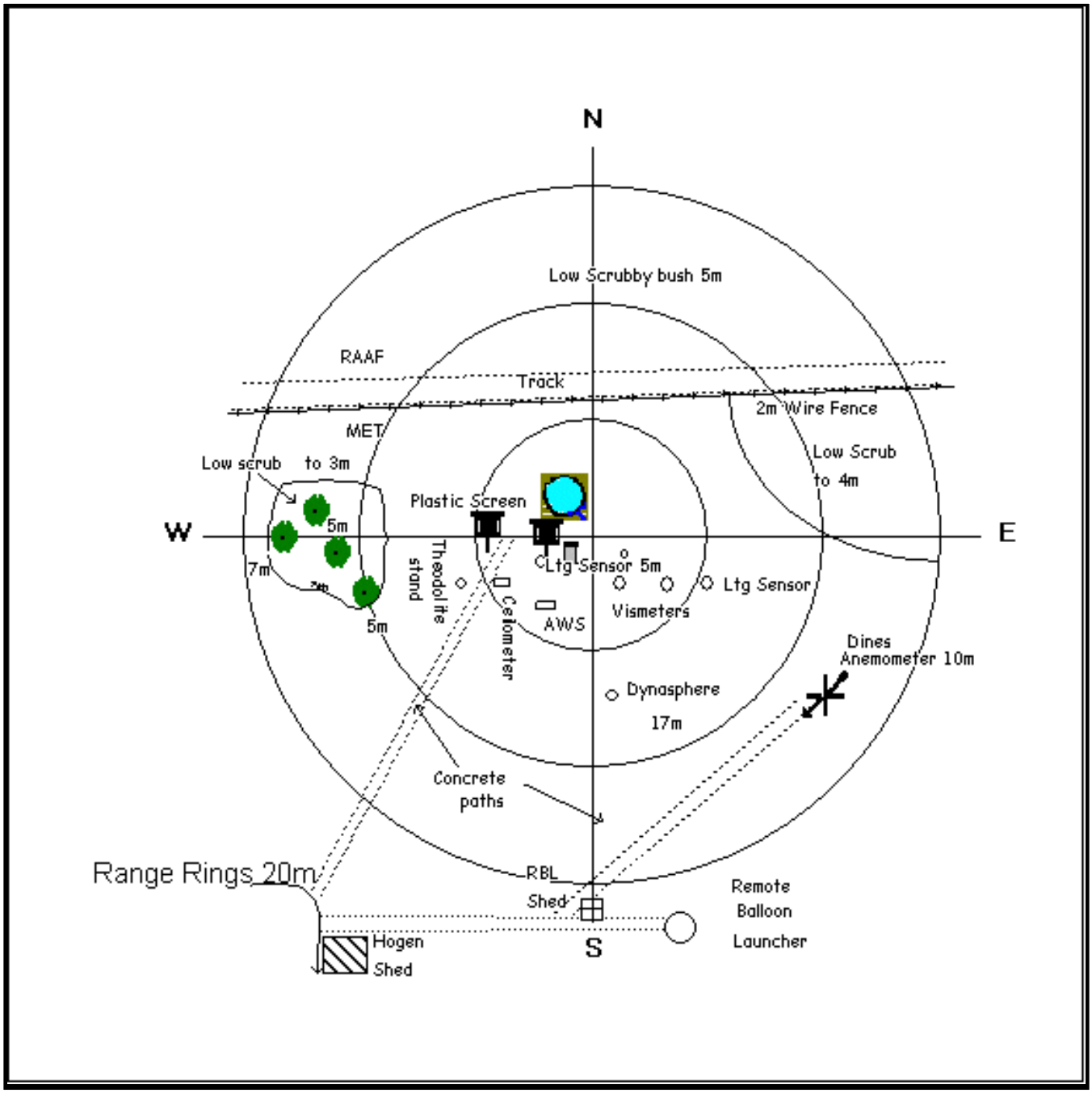
Instrument Location and Surrounding Features
07/03/2014



Extended Climatological Station Metadata
All History

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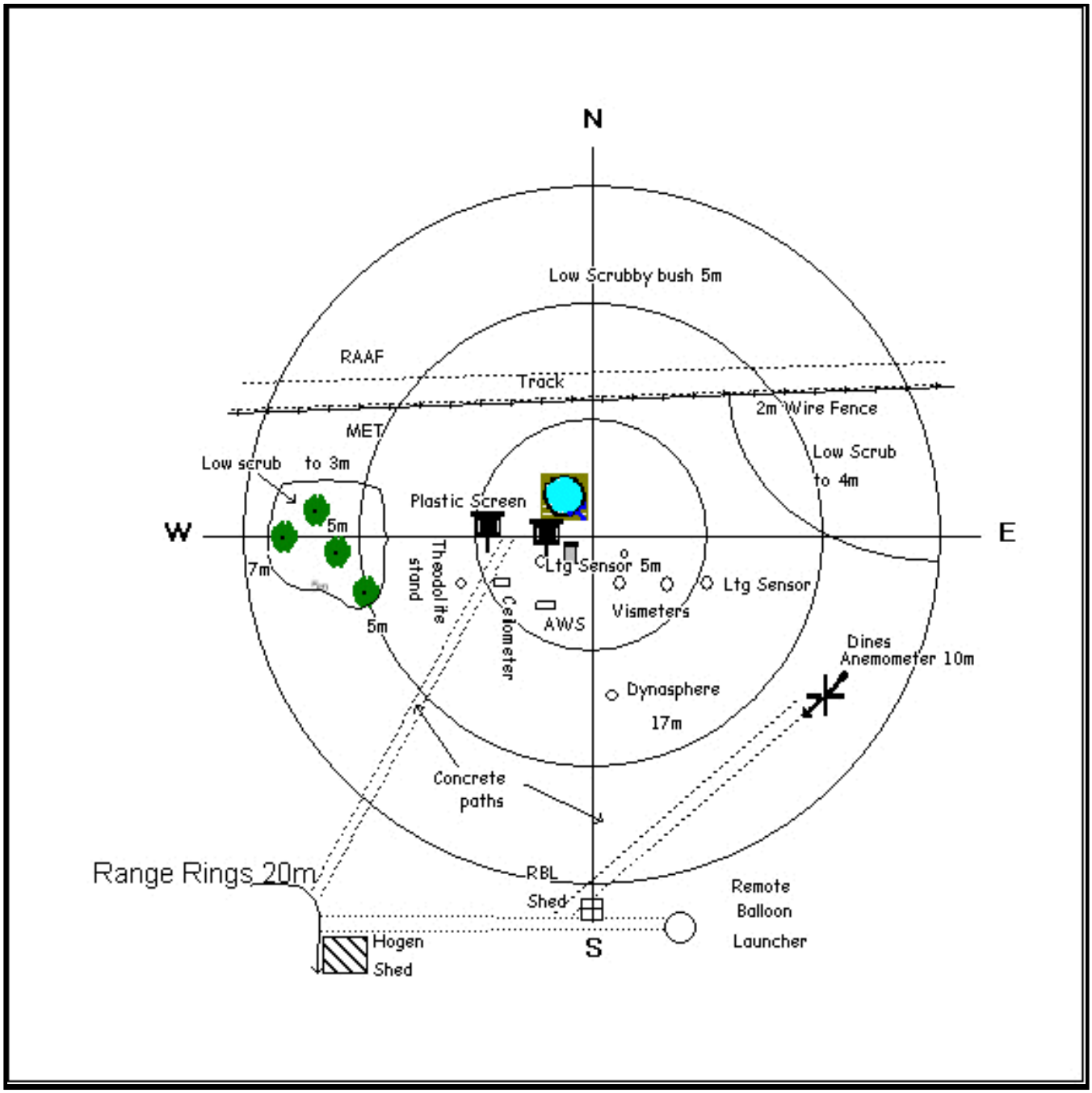
Instrument Location and Surrounding Features
29/08/2013



Extended Climatological Station Metadata
All History

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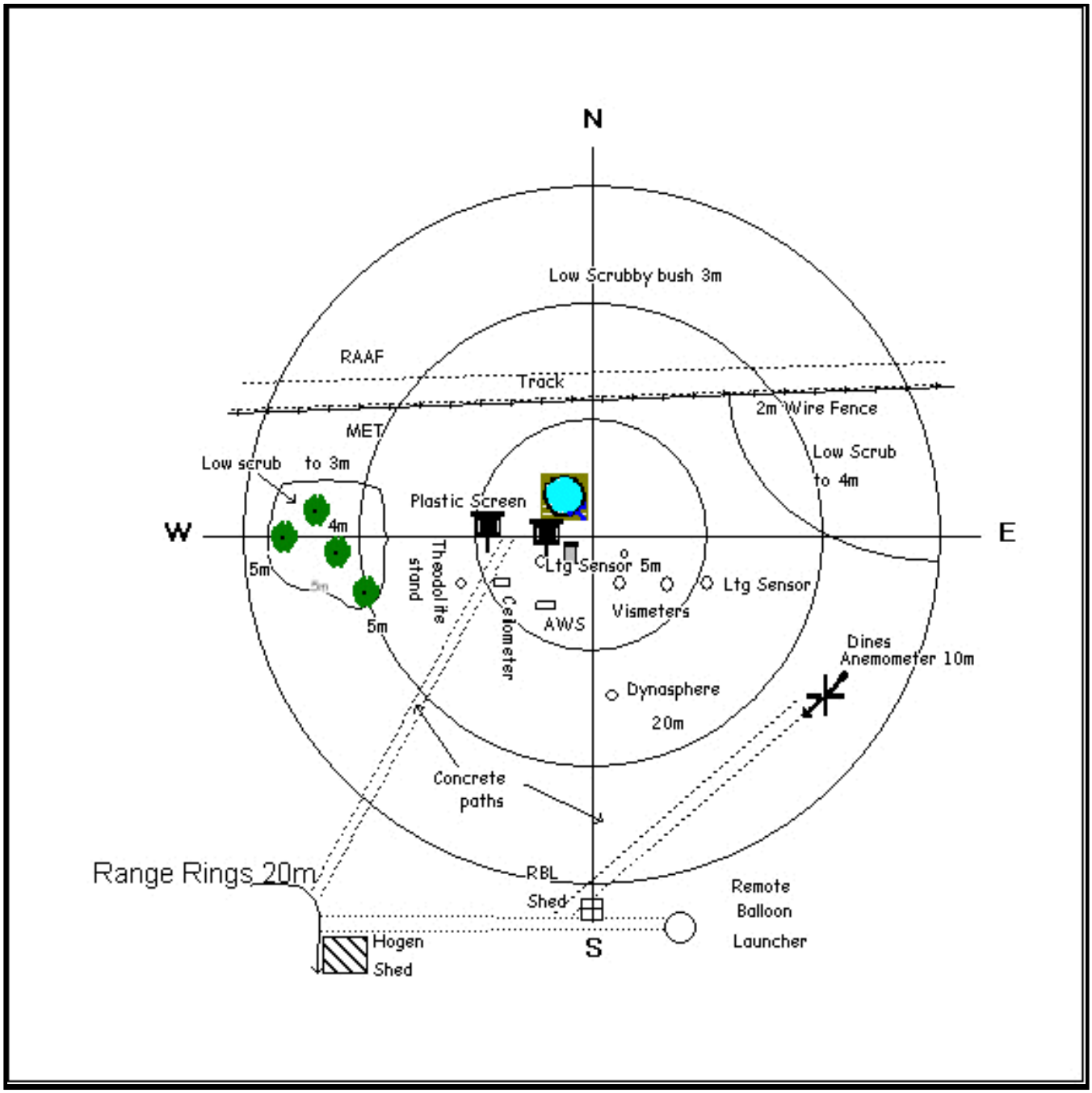
Instrument Location and Surrounding Features
24/08/2012



Extended Climatological Station Metadata
All History

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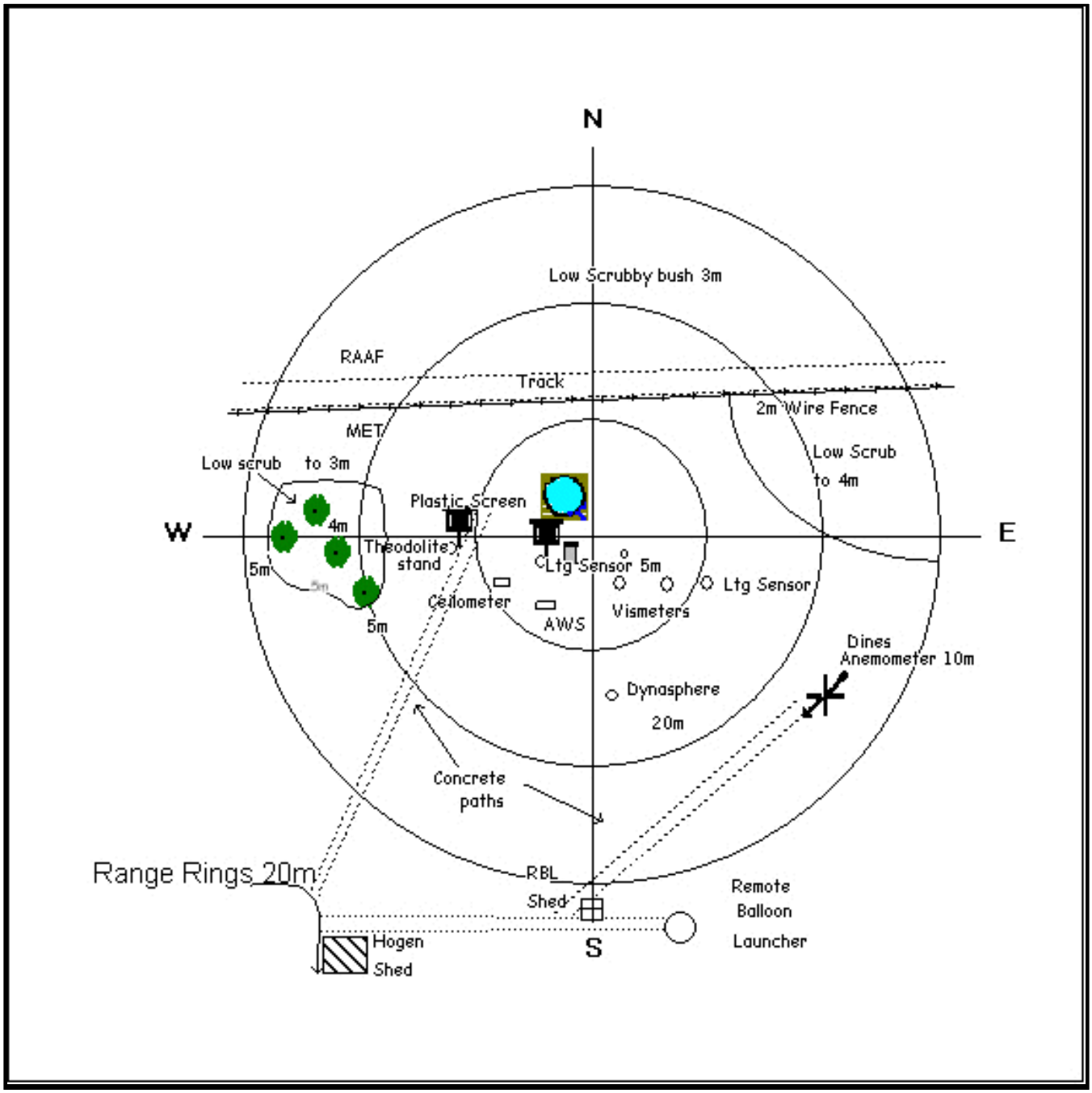
Instrument Location and Surrounding Features
14/07/2011



Extended Climatological Station Metadata
All History

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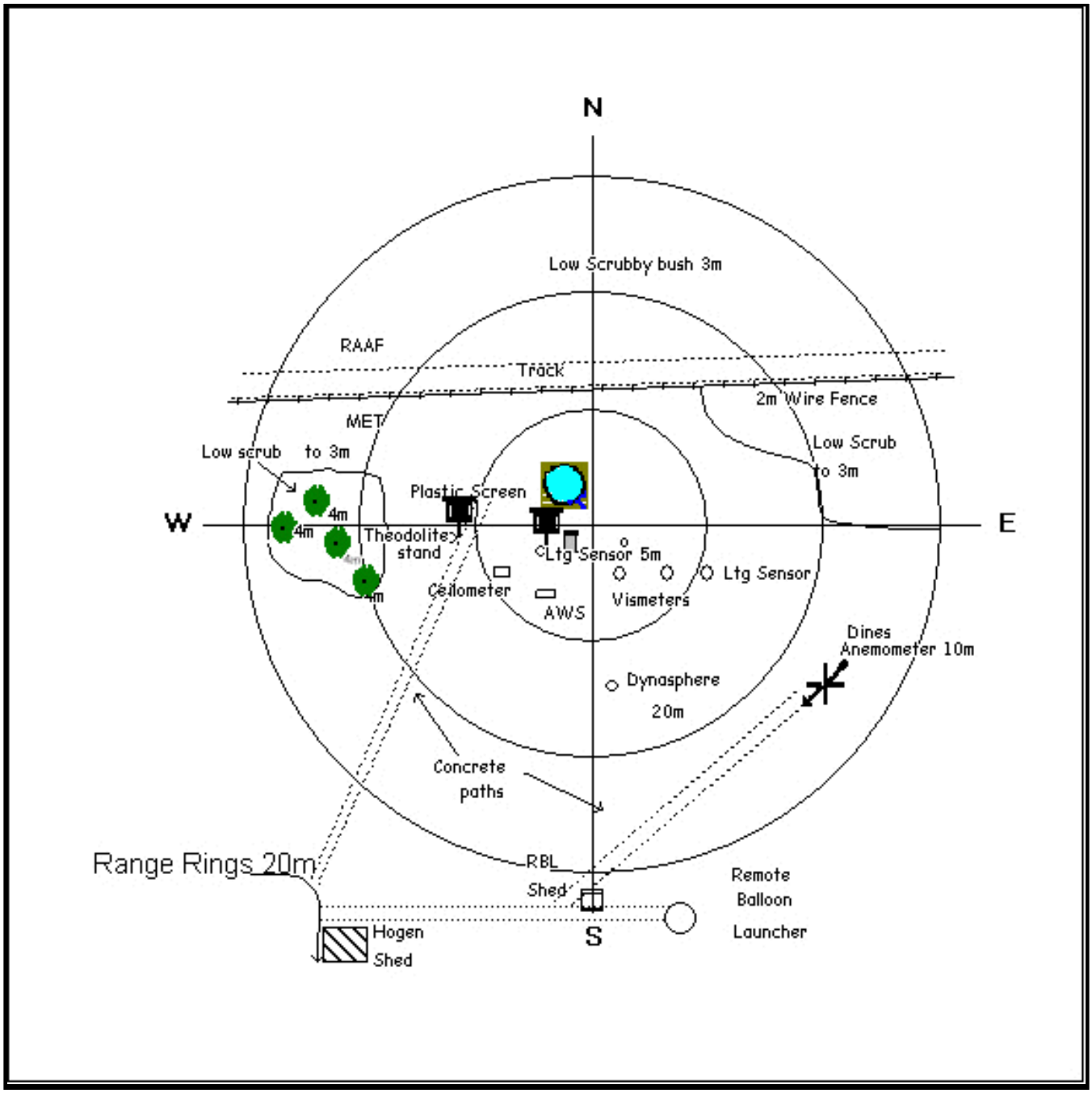
Instrument Location and Surrounding Features
08/07/2010



Extended Climatological Station Metadata
All History

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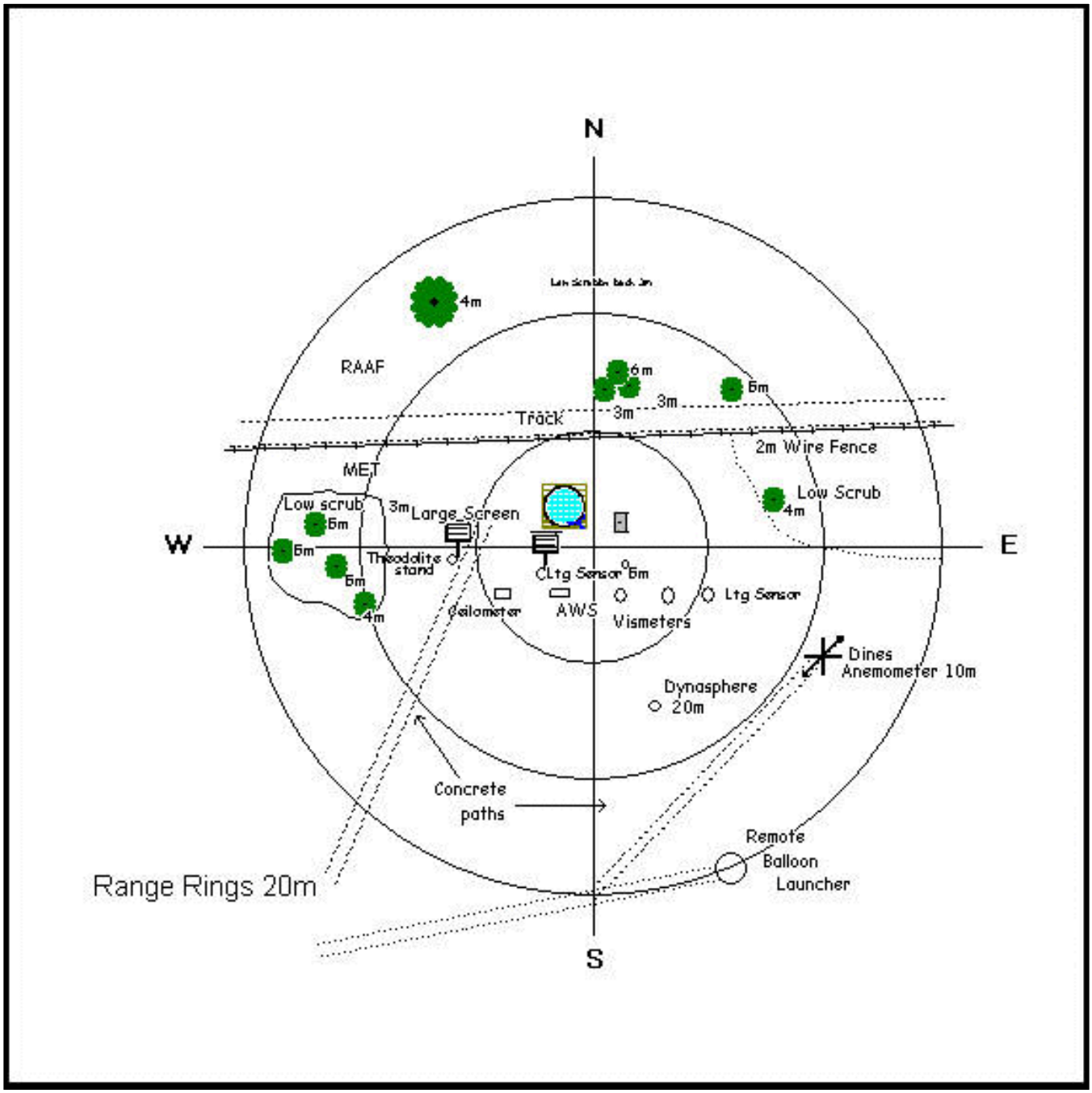
Instrument Location and Surrounding Features
08/04/2009



Extended Climatological Station Metadata
All History

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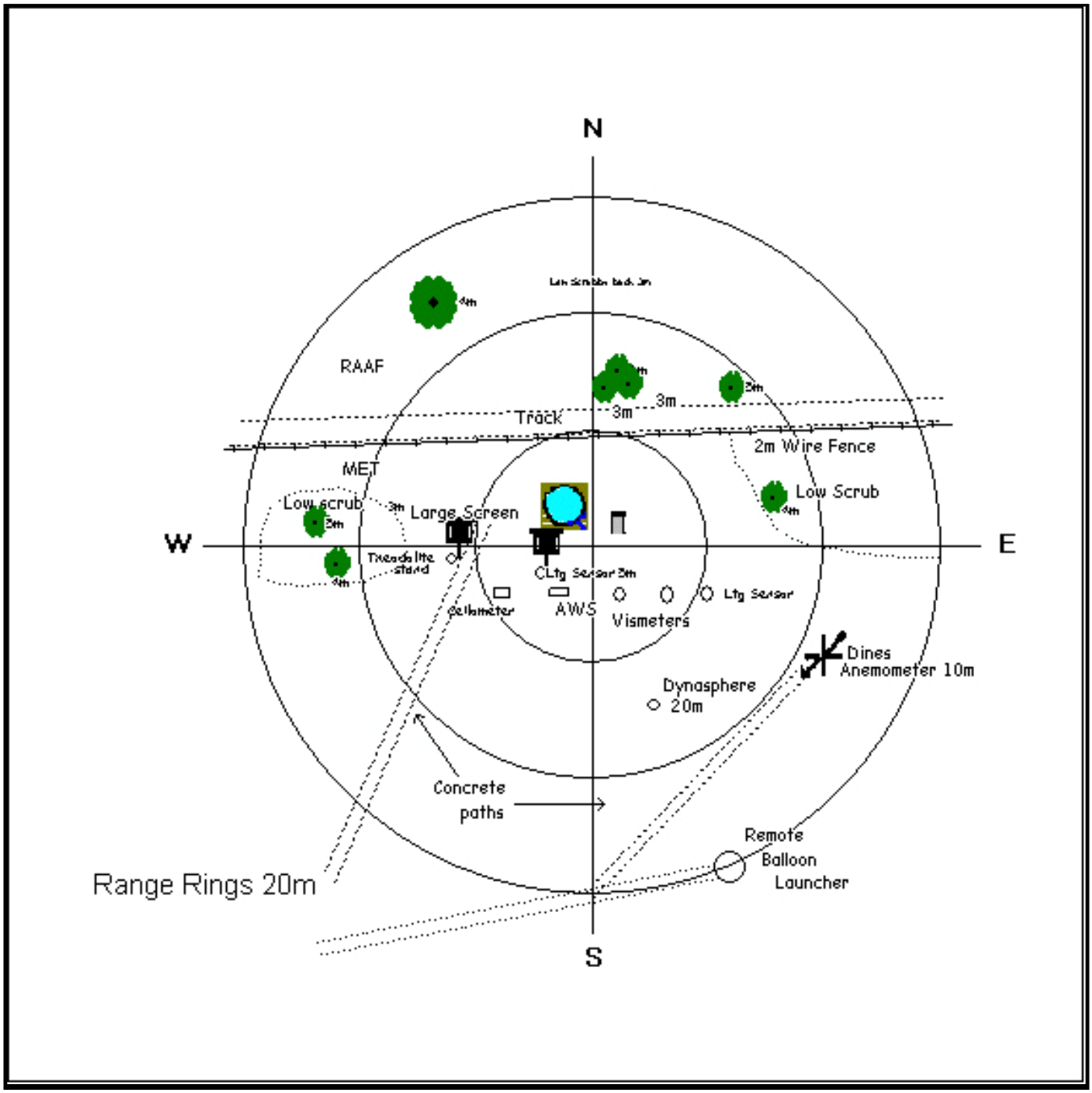
Instrument Location and Surrounding Features
18/02/2008



Extended Climatological Station Metadata
All History

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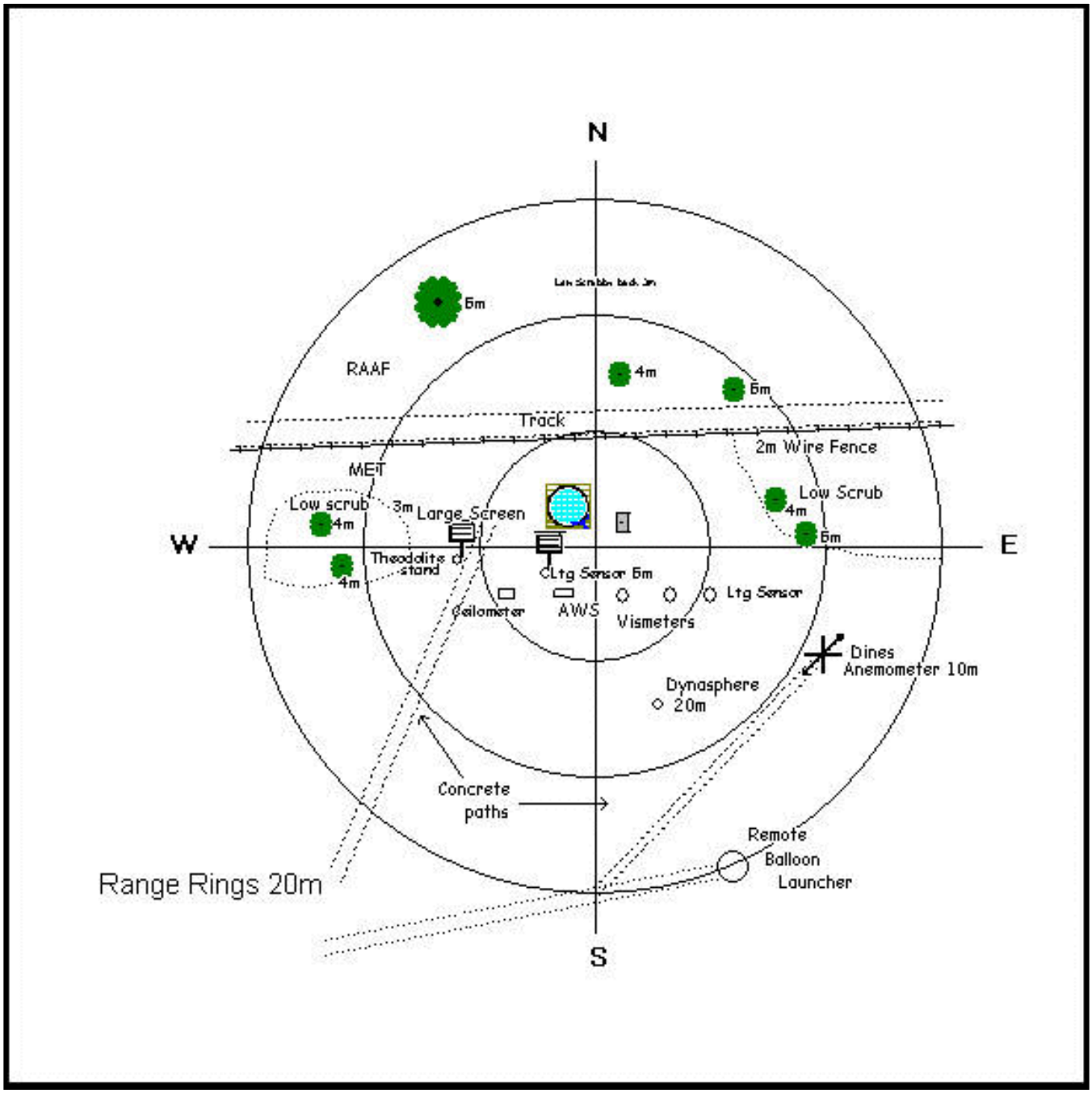
Instrument Location and Surrounding Features
21/03/2007



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All History

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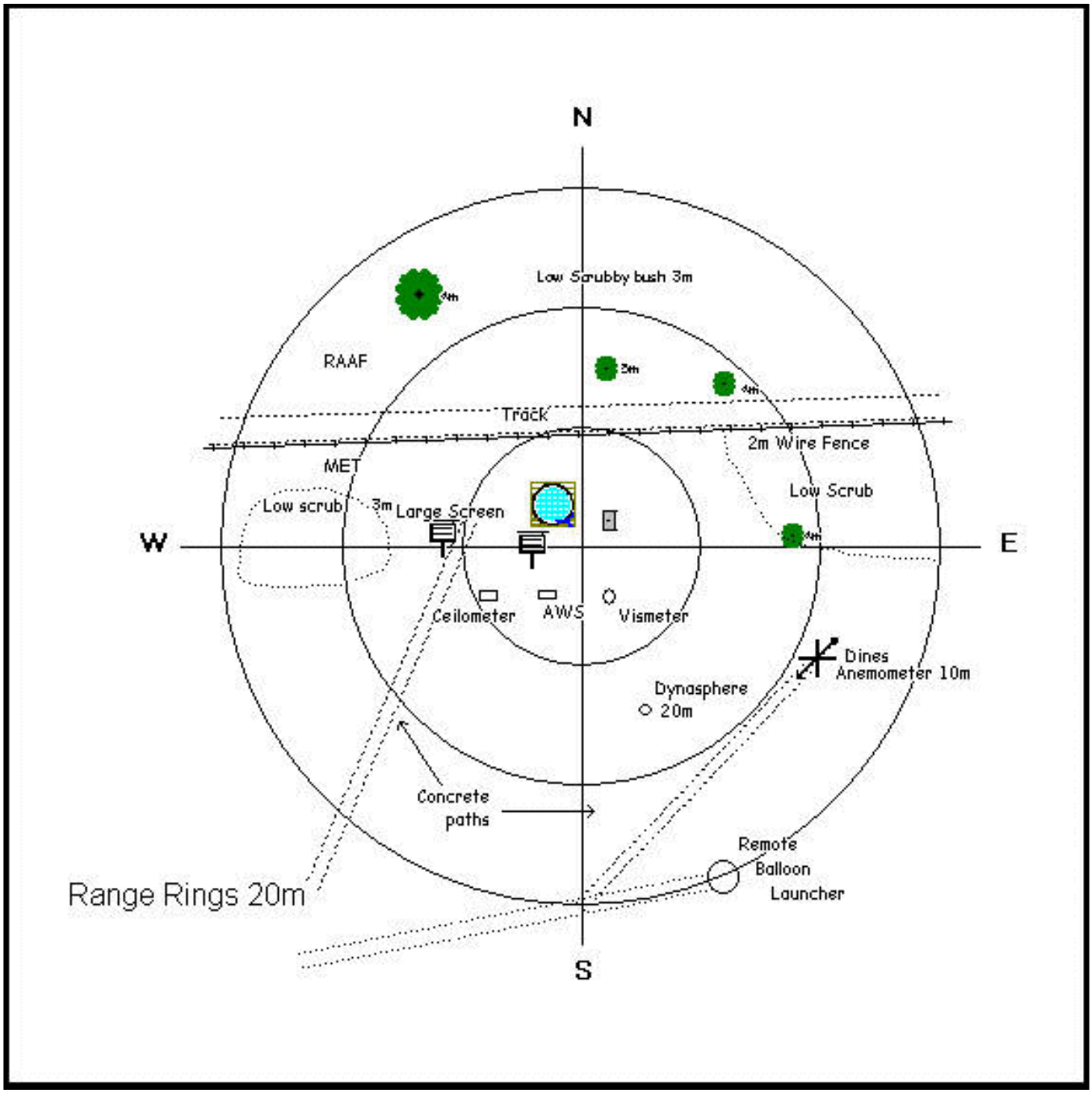
Instrument Location and Surrounding Features
22/02/2006



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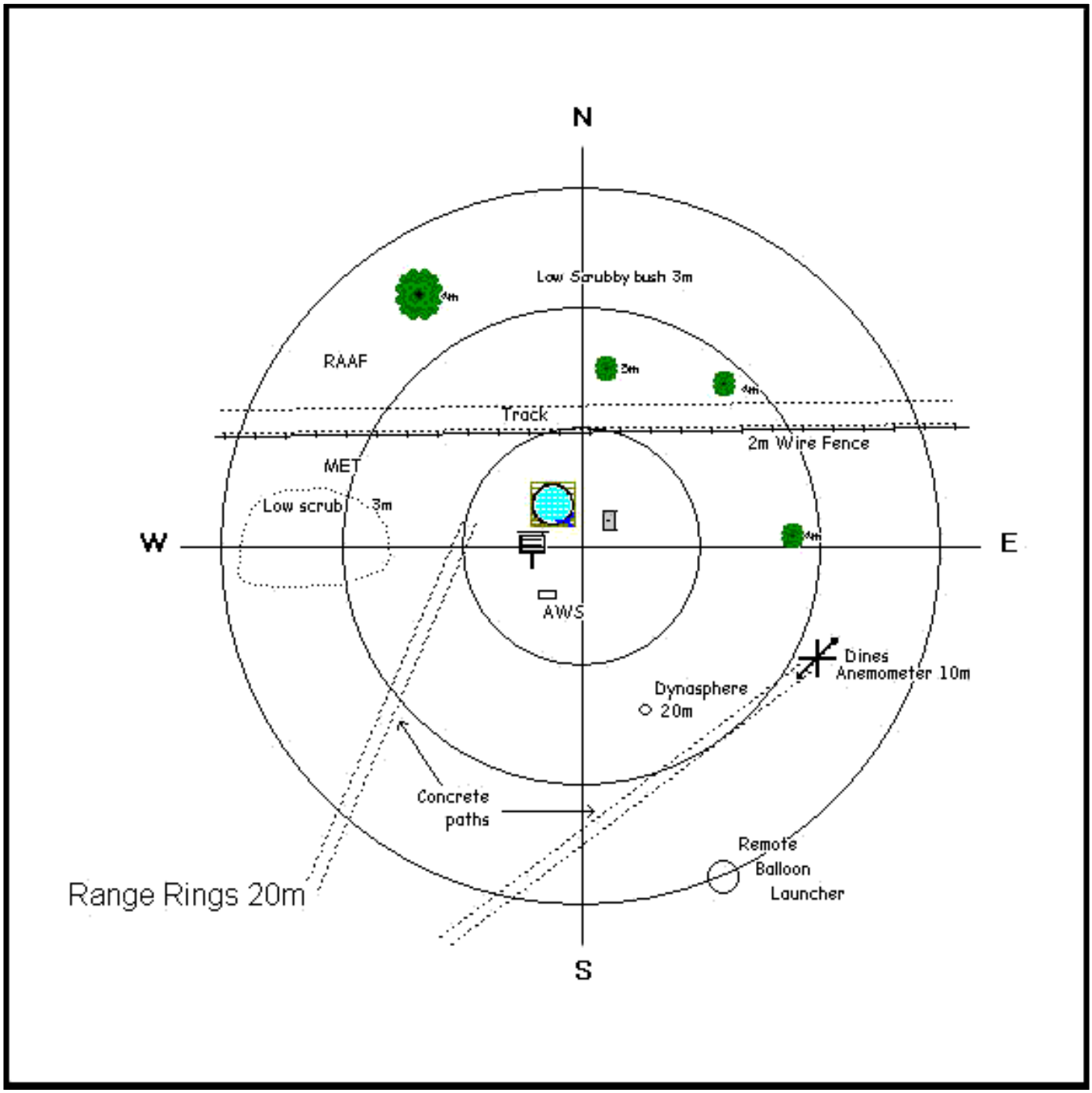
Instrument Location and Surrounding Features
16/06/2004



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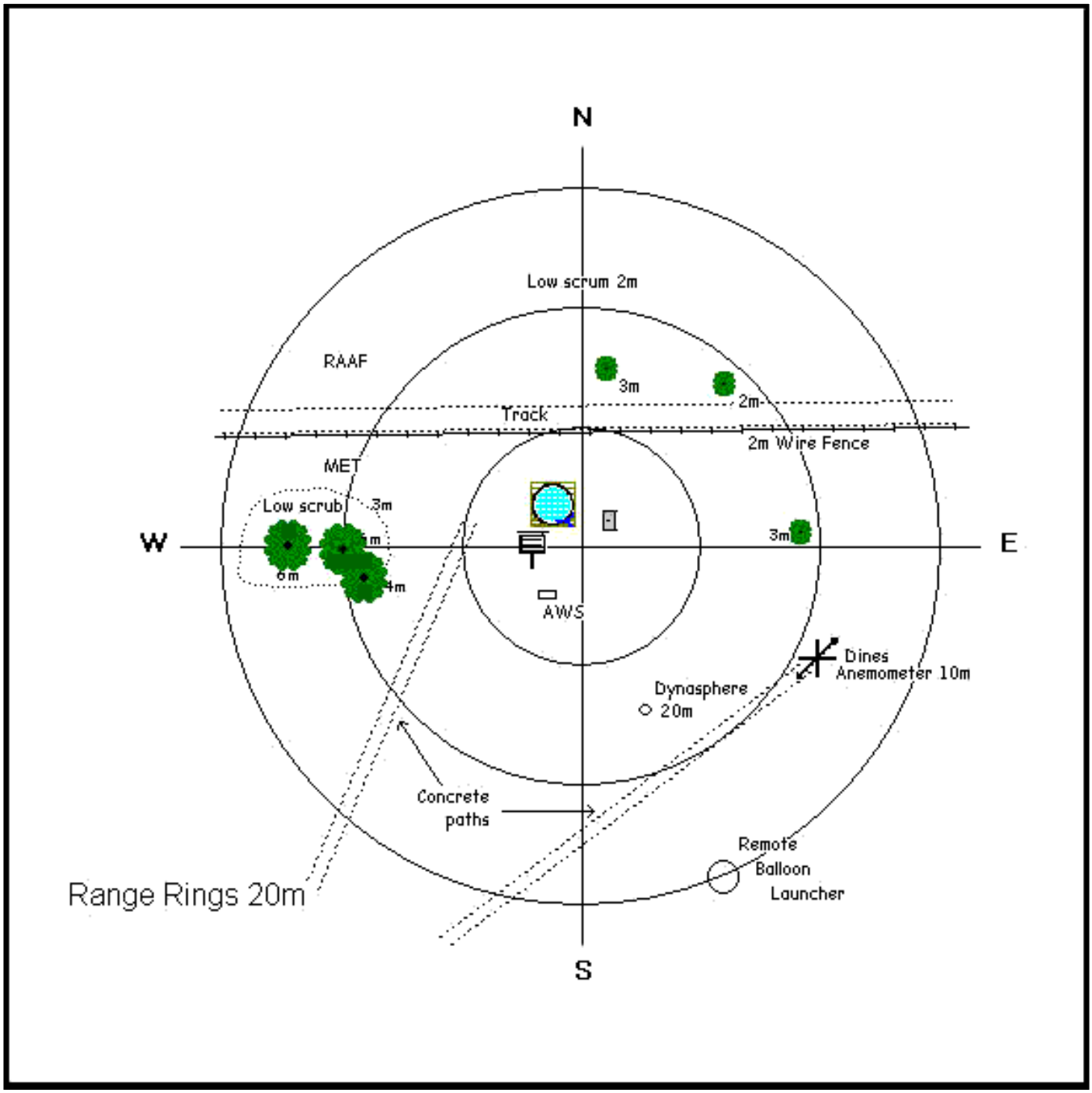
Instrument Location and Surrounding Features
21/01/2004



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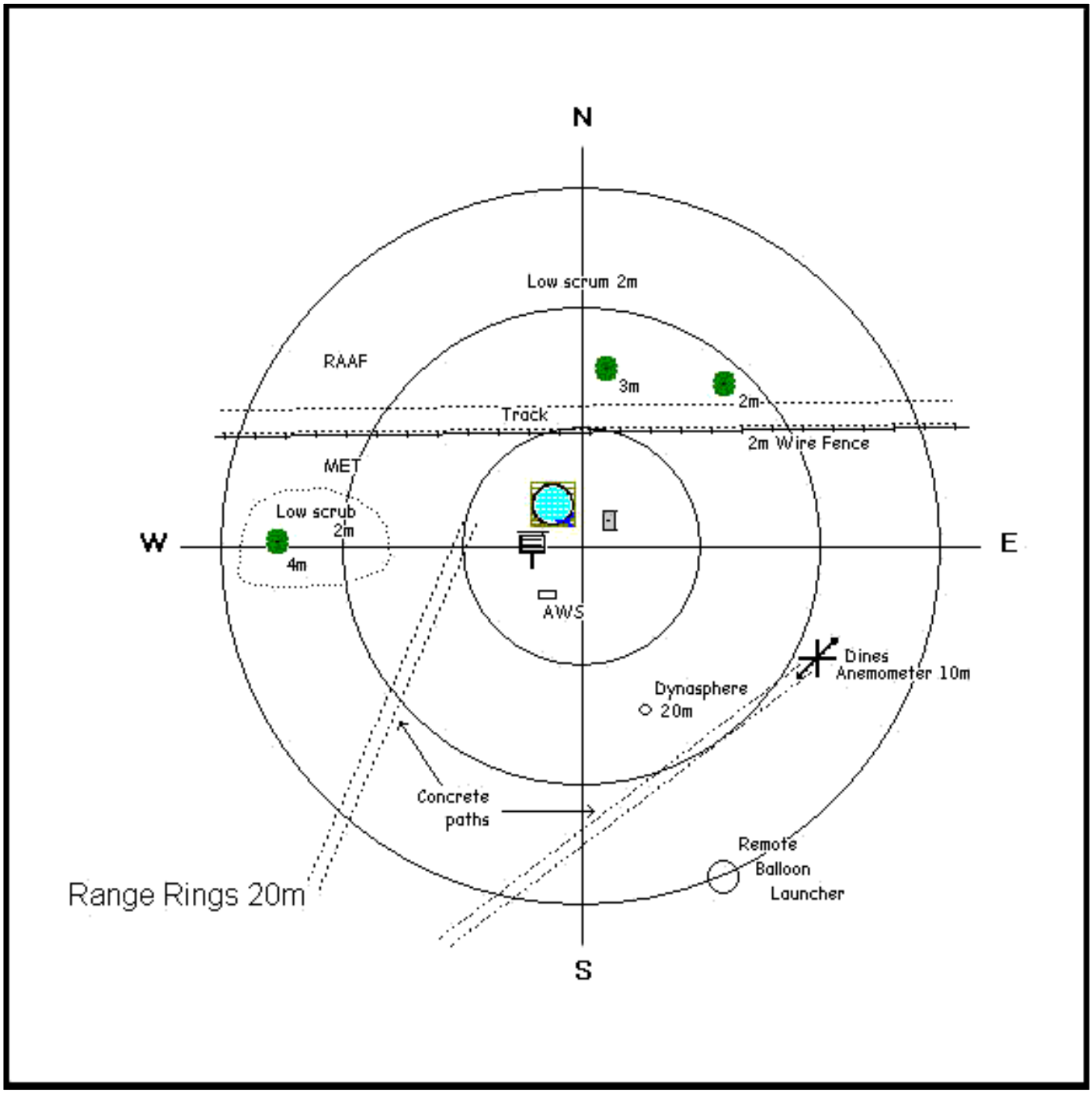
Instrument Location and Surrounding Features
24/09/2002



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All History

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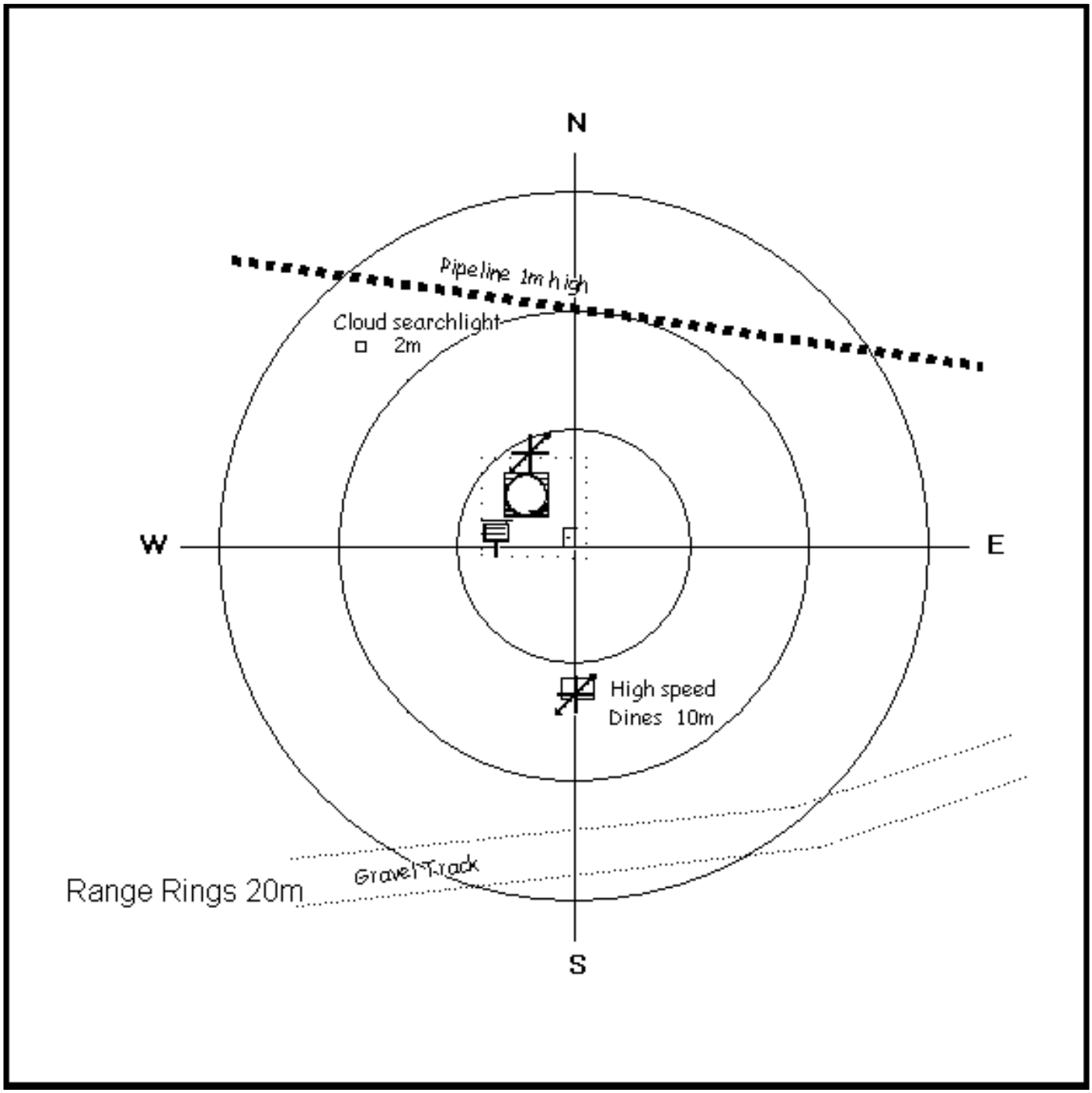
Instrument Location and Surrounding Features
28/02/2001



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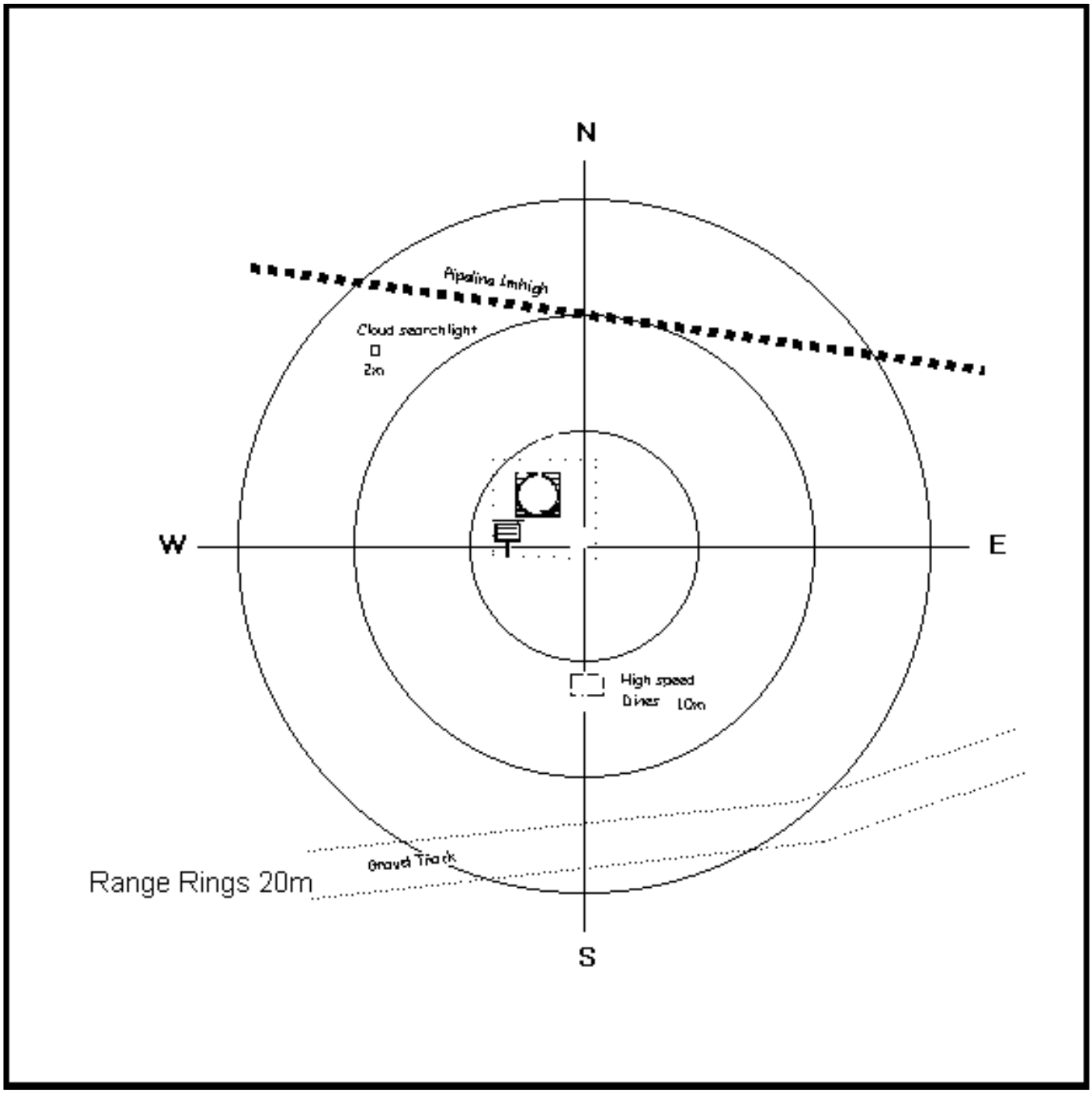
Instrument Location and Surrounding Features
13/07/1999



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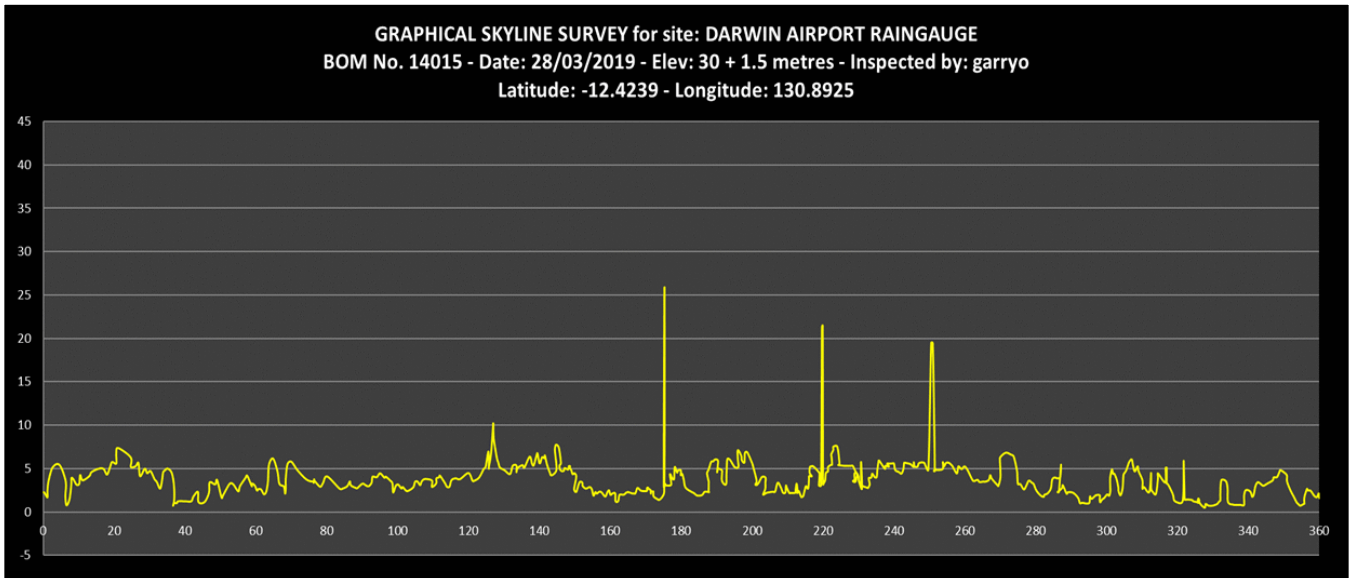
Skyline Diagram
28/03/2019(most recent)



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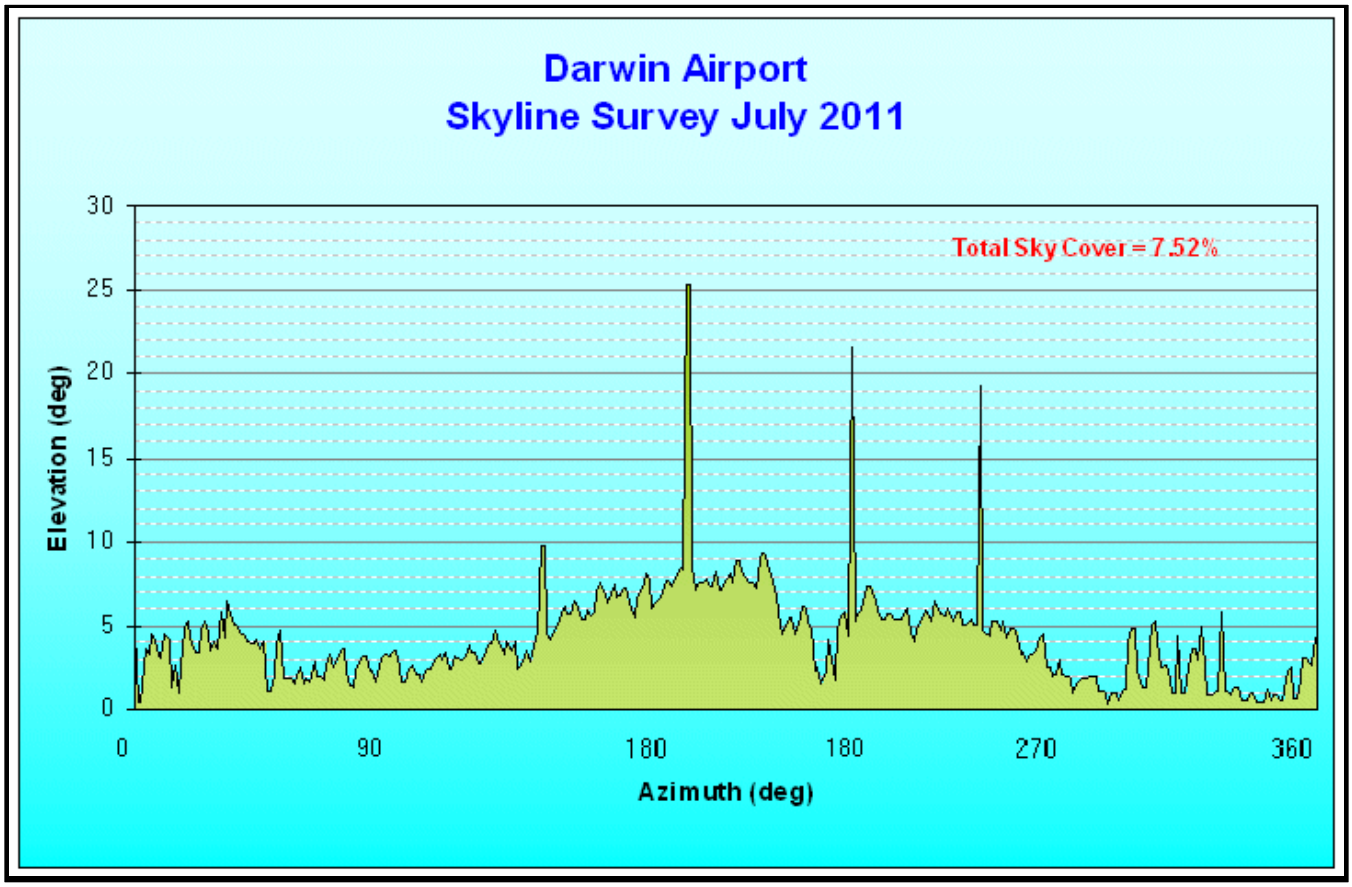
Station:	DARWIN AIRPORT			**Location:**	DARWIN AIRPORT			**State:**	NT
Bureau No.:	014015	**WMO No.:**	94120	**Aviation ID:**	YPDN	**Opened:**	01 Jan 1941	**Current Status:**	Still open
Latitude:	-12.4239	**Longitude:**	130.8925	**Elevation:**	30.4 m	**Barometer Elev:**	31.3 m	**Metadata compiled:**	26 JUL 2025

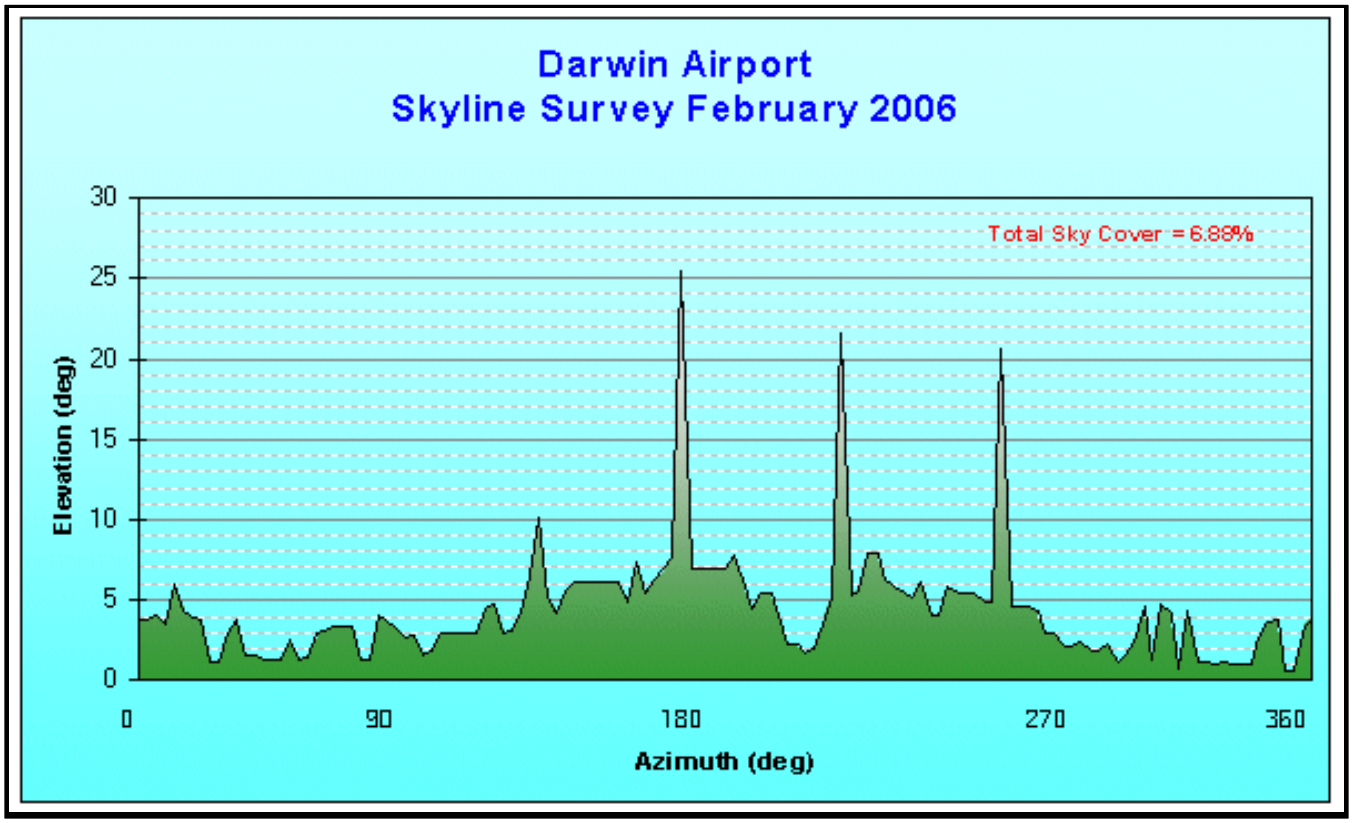
Skyline Diagram
14/07/2011



Extended Climatological Station Metadata
All History

Station:	DARWIN AIRPORT			**Location:**	DARWIN AIRPORT			**State:**	NT
Bureau No.:	014015	**WMO No.:**	94120	**Aviation ID:**	YPDN	**Opened:**	01 Jan 1941	**Current Status:**	Still open
Latitude:	-12.4239	**Longitude:**	130.8925	**Elevation:**	30.4 m	**Barometer Elev:**	31.3 m	**Metadata compiled:**	26 JUL 2025

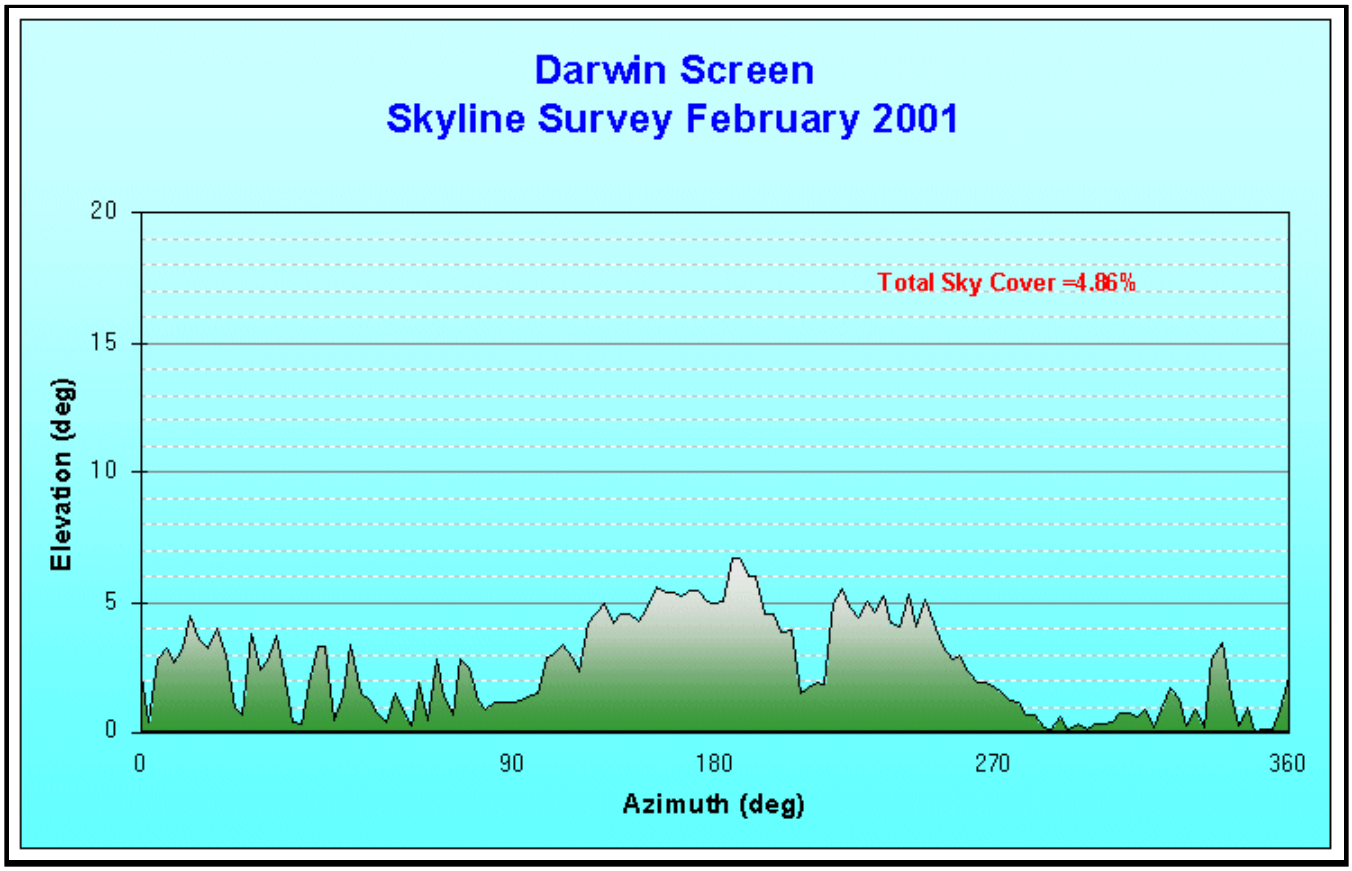
Skyline Diagram
22/02/2006



Extended Climatological Station Metadata
All History

Station:	DARWIN AIRPORT			**Location:**	DARWIN AIRPORT			**State:**	NT
Bureau No.:	014015	**WMO No.:**	94120	**Aviation ID:**	YPDN	**Opened:**	01 Jan 1941	**Current Status:**	Still open
Latitude:	-12.4239	**Longitude:**	130.8925	**Elevation:**	30.4 m	**Barometer Elev:**	31.3 m	**Metadata compiled:**	26 JUL 2025

Skyline Diagram
07/08/2001



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.

Extended Climatological Station Metadata
All History

Station:	DARWIN AIRPORT			**Location:**	DARWIN AIRPORT			**State:**	NT
Bureau No.:	014015	**WMO No.:**	94120	**Aviation ID:**	YPDN	**Opened:**	01 Jan 1941	**Current Status:**	Still open
Latitude:	-12.4239	**Longitude:**	130.8925	**Elevation:**	30.4 m	**Barometer Elev:**	31.3 m	**Metadata compiled:**	26 JUL 2025

Station Observation Program Summary (Surface Observations) from 01/01/1941 to 29/11/2001

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 29/11/2001 to 28/03/2019

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

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

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

Upper Air Routine 01/07/1999 to 07/08/2001

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

Extended Climatological Station Metadata
All History

Station:	DARWIN AIRPORT			Location:	DARWIN AIRPORT			State:	NT
Bureau No.:	014015	WMO No.:	94120	Aviation ID:	YPDN	Opened:	01 Jan 1941	Current Status:	Still open
Latitude:	-12.4239	Longitude:	130.8925	Elevation:	30.4 m	Barometer Elev:	31.3 m	Metadata compiled:	26 JUL 2025

Upper Air Routine 07/08/2001 to 21/01/2006

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	Y	Y	Y	Y	Y	Y	Y

Upper Air Routine 21/01/2006 to 13/02/2006

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	Y	Y	Y	Y	Y	Y	Y
Wind & Temp.	12:00	Y	Y	Y	Y	Y	Y	Y
Wind & Temp.	18:00	Y	Y	Y	Y	Y	Y	Y
Wind	00:00	Y	Y	Y	Y	Y	Y	Y
Wind	06:00	Y	Y	Y	Y	Y	Y	Y
Wind	12:00	Y	Y	Y	Y	Y	Y	Y
Wind	18:00	Y	Y	Y	Y	Y	Y	Y

Upper Air Routine 13/02/2006 to 07/11/2018

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	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	Y	Y	Y	Y	Y	Y	Y

Upper Air Routine 07/11/2018 (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	-	-	-	-	-	-	-
Wind	18:00	-	-	-	-	-	-	-

Extended Climatological Station Metadata
All History

Station:	DARWIN AIRPORT			**Location:**	DARWIN AIRPORT			**State:**	NT
Bureau No.:	014015	**WMO No.:**	94120	**Aviation ID:**	YPDN	**Opened:**	01 Jan 1941	**Current Status:**	Still open
Latitude:	-12.4239	**Longitude:**	130.8925	**Elevation:**	30.4 m	**Barometer Elev:**	31.3 m	**Metadata compiled:**	26 JUL 2025

Station Equipment History

Equipment Install/Remove

Cloud Height

17/APR/2003 INSTALL Ceilometer (Type Vaisala CT25K S/N - Y08103) Surface Observations
26/JUN/2018 REPLACE Ceilometer (Now Vaisala CL31 S/N - N4610164) Surface Observations
21/JUN/2005 REPLACE Ceilometer (Now Vaisala CT25K S/N - T13202) Surface Observations
12/AUG/2009 REPLACE Ceilometer (Now Vaisala CT25K S/N - W09403) Surface Observations
01/JAN/1941 INSTALL Cloud Base Searchlight (Type 90 Degree S/N - V31) Surface Observations
08/AUG/2001 INSTALL Cloud Base Searchlight (Type 90 Degree S/N - V31) Surface Observations
07/AUG/2001 REMOVE Cloud Base Searchlight (Type 90 Degree S/N - V31) Surface Observations

Humidity

21/FEB/2001 INSTALL Cable Assy, Humidity Probe (Type Rotronics (MOK) S/N - 14408-016) Surface Observations
21/FEB/2001 INSTALL Cable Assy, Humidity Probe (Type Rotronics (MOK) S/N - 14408-018) Surface Observations
06/MAY/2021 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 11666028) Surface Observations
21/FEB/2001 INSTALL Humidity Probe (Type Rotronics S/N - 12778-045) Surface Observations
21/FEB/2001 INSTALL Humidity Probe (Type Rotronics S/N - 12778-046) Surface Observations
18/APR/2001 REMOVE Cable Assy, Humidity Probe (Type Rotronics (MOK) S/N - 14408-016) Surface Observations
18/APR/2001 REMOVE Cable Assy, Humidity Probe (Type Rotronics (MOK) S/N - 14408-018) Surface Observations
18/APR/2001 REMOVE Humidity Probe (Type Rotronics S/N - 12778-046) Surface Observations
18/APR/2001 REMOVE Humidity Probe (Type Rotronics S/N - 15989-067) Surface Observations
15/MAR/2001 REPLACE Humidity Probe (Now Rotronics S/N - 15989-067) Surface Observations
01/JAN/1941 INSTALL Hygrograph (Type Hair Hygrograph S/N - Unknown) Surface Observations
31/DEC/1962 REMOVE Hygrograph (Type Hair Hygrograph S/N - Unknown) Surface Observations

Pressure Trend

24/SEP/2002 INSTALL Barograph (Type Weekly S/N - 127) Surface Observations

Lightning

08/AUG/2001 INSTALL Lightning Flash Counter (Type CIGRE - Horizontal Aerial S/N - Unknown) Surface Observations
01/DEC/1965 INSTALL Lightning Flash Counter (Type CIGRE - Horizontal Aerial S/N - Unknown) Surface Observations
08/AUG/2001 INSTALL Lightning Flash Counter (Type CIGRE - Vertical Aerial S/N - 9996) Surface Observations
07/AUG/2001 REMOVE Lightning Flash Counter (Type CIGRE - Vertical Aerial S/N - Unknown) Surface Observations
15/MAY/2017 REPLACE Lightning Flash Counter (Now CIGRE - Vertical Aerial S/N - M38) Surface Observations
01/NOV/1981 REPLACE Lightning Flash Counter (Now CIGRE - Vertical Aerial S/N - Unknown) Surface Observations
11/JAN/2007 INSTALL Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - A495001) Surface Observations
05/SEP/2019 REMOVE Lightning Sensor (Type Vaisala TSS928 (Thunderstorm Sensor) S/N - A495001) Surface Observations

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

15/FEB/1999 INSTALL Anemometer (Type Dines - Hi Speed S/N - 1896) Surface Observations
08/AUG/2001 INSTALL Anemometer (Type Dines - Hi Speed S/N - 1896) Surface Observations
01/JAN/1961 INSTALL Anemometer (Type Dines - Hi Speed S/N - Unknown) Surface Observations
23/DEC/2012 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 77976) Surface Observations
01/OCT/1990 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
09/JAN/1995 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
25/OCT/1999 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
01/OCT/1990 INSTALL Mast Anemometer (Type Pivot, Hydraulic S/N - NONE) Infrastructure

Extended Climatological Station Metadata
All History

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Bureau No.:	014015	**WMO No.:**	94120	**Aviation ID:**	YPDN	**Opened:**	01 Jan 1941	**Current Status:**	Still open
Latitude:	-12.4239	**Longitude:**	130.8925	**Elevation:**	30.4 m	**Barometer Elev:**	31.3 m	**Metadata compiled:**	26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

09/JAN/1995 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - Unknown) Infrastructure
08/AUG/2001 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - Unknown) Infrastructure
08/AUG/2001 INSTALL Wind Run Anemometer (Type Synchrotac S/N - CBM553) Surface Observations
01/JUL/1957 INSTALL Wind Run Anemometer (Type Synchrotac S/N - CBM5541) Surface Observations
16/AUG/2011 INSTALL Wind Run Anemometer (Type Synchrotac S/N - CBM658) Surface Observations
07/AUG/2001 REMOVE Anemometer (Type Dines - Hi Speed S/N - 1896) Surface Observations
01/OCT/1990 REMOVE Anemometer (Type Dines - Hi Speed S/N - Unknown) Surface Observations
06/AUG/2001 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
07/AUG/2001 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
06/AUG/2001 REMOVE Mast Anemometer (Type Pivot, Hydraulic S/N - NONE) Infrastructure
07/AUG/2001 REMOVE Mast Anemometer (Type Pivot, Standard 10m S/N - Unknown) Infrastructure
07/AUG/2001 REMOVE Wind Run Anemometer (Type Synchrotac S/N - CBM5541) Surface Observations
06/SEP/2013 REMOVE Wind Run Anemometer (Type Synchrotac S/N - CBM658) Surface Observations
22/NOV/2019 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 74080) Surface Observations
22/NOV/2019 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 060314) Surface Observations
23/DEC/2012 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 74058) Surface Observations
25/AUG/2011 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 76439) Surface Observations
31/JAN/2001 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - S78274D78207) Surface Observations
07/JUN/2002 REPLACE Wind Run Anemometer (Now Synchrotac S/N - CBM5541) Surface Observations

Wet Bulb Temperature

10/JAN/1998 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 0241) Surface Observations
08/AUG/2001 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 0536) Surface Observations
07/AUG/2001 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 0241) Surface Observations
06/MAY/2021 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 0536) Surface Observations
01/FEB/1941 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 13643) Surface Observations
24/SEP/2002 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 15820) Surface Observations
31/JUL/2003 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 18778) Surface Observations
08/AUG/2001 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 13643) Surface Observations
02/APR/2008 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 18778) Surface Observations
06/FEB/2008 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 15782) Surface Observations
04/MAY/2021 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 21745) Surface Observations

Solar Radiation (Long Wave)

11/AUG/1995 INSTALL Pyrgeometer (Type Epply PIR S/N - 29080F3) Radiation

Spectral Radiation

26/APR/1999 INSTALL Photometer Head (Type SPO2 Mk1 S/N - 1007) Radiation
15/JUN/2003 INSTALL Photometer Head (Type SPO2 Mk1 S/N - 1038) Radiation
28/APR/1999 INSTALL Photometer Head (Type SPO2 Mk1 S/N - Unknown) Radiation
05/DEC/2006 REMOVE Photometer Head (Type SPO2 Mk1 S/N - 1038) Radiation
28/MAY/1999 REMOVE Photometer Head (Type SPO2 Mk1 S/N - Unknown) Radiation
23/AUG/2005 REPLACE Photometer Head (Now SPO2 Mk1 S/N - 1052) Radiation

Maximum Temperature

24/SEP/2002 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 15525) Surface Observations
31/JUL/2003 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 21970) Surface Observations

Extended Climatological Station Metadata
All History

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

01/FEB/1941 INSTALL Thermometer, Mercury, Max (Type Unknown S/N - Unknown) Surface Observations
02/APR/2008 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - 21970) Surface Observations
31/JUL/2003 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - M1490) Surface Observations
02/APR/2007 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 3260) Surface Observations
10/APR/2012 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M1480) Surface Observations
20/OCT/2000 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M1490) Surface Observations

Soil Temperature 10cm

24/SEP/2002 INSTALL Thermometer, Soil, 10cm (Type Amarol S/N - 11818) Surface Observations
01/FEB/1991 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - M1253) Surface Observations
07/AUG/2001 REMOVE Thermometer, Soil, 10cm (Type Dobros S/N - M1253) Surface Observations
17/APR/2013 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - CBM274) Surface Observations
08/APR/2009 REPLACE Thermometer, Soil, 10cm (Now Unknown S/N - M2156) Surface Observations

Soil Temperature 20cm

24/SEP/2002 INSTALL Thermometer, Soil, 20cm (Type Amarol S/N - 11829) Surface Observations
01/FEB/1991 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - M3643) Surface Observations
07/AUG/2001 REMOVE Thermometer, Soil, 20cm (Type Dobros S/N - M3643) Surface Observations
30/JUN/2008 REPLACE Thermometer, Soil, 20cm (Now Unknown S/N - M3643) Surface Observations

Soil Temperature 50cm

24/SEP/2002 INSTALL Thermometer, Soil, 50cm (Type Amarol S/N - 10811) Surface Observations
01/FEB/1991 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - M364) Surface Observations
07/AUG/2001 REMOVE Thermometer, Soil, 50cm (Type Dobros S/N - M364) Surface Observations
11/AUG/2003 REPLACE Thermometer, Soil, 50cm (Now Amarol S/N - 0269673) Surface Observations
30/MAY/2010 REPLACE Thermometer, Soil, 50cm (Now Amarol S/N - 0269686) Surface Observations
18/FEB/2004 REPLACE Thermometer, Soil, 50cm (Now Amarol S/N - 0269687) Surface Observations
29/MAY/2003 REPLACE Thermometer, Soil, 50cm (Now Amarol S/N - 9990143) Surface Observations

Snow Height (No Electronic History)

Soil Temperature 100cm

24/SEP/2002 INSTALL Thermometer, Soil, 100cm (Type Amarol S/N - 10821) Surface Observations
01/FEB/1991 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - M2141) Surface Observations
09/APR/2014 REMOVE Thermometer, Soil, 100cm (Type Amarol S/N - 0010826) Surface Observations
07/AUG/2001 REMOVE Thermometer, Soil, 100cm (Type Dobros S/N - M2141) Surface Observations
10/FEB/2011 REPLACE Thermometer, Soil, 100cm (Now Amarol S/N - 0010811) Surface Observations
03/JUN/2011 REPLACE Thermometer, Soil, 100cm (Now Amarol S/N - 0010826) Surface Observations

Sunshine Hours

08/AUG/2001 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - Unknown) Surface Observations
01/JUL/1951 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - Unknown) Surface Observations
07/AUG/2001 REMOVE Sunshine Recorder (Type Campbell-Stokes S/N - Unknown) Surface Observations
24/SEP/2002 REPLACE Sunshine Recorder (Now Casella S/N - 7785) Surface Observations

Wind Run

08/AUG/2001 INSTALL Wind Run Anemometer (Type Synchrotac S/N - CBM553) Surface Observations
01/JUL/1957 INSTALL Wind Run Anemometer (Type Synchrotac S/N - CBM5541) Surface Observations
16/AUG/2011 INSTALL Wind Run Anemometer (Type Synchrotac S/N - CBM658) Surface Observations
07/AUG/2001 REMOVE Wind Run Anemometer (Type Synchrotac S/N - CBM5541) Surface Observations

Extended Climatological Station Metadata
All History

Station:	DARWIN AIRPORT			**Location:**	DARWIN AIRPORT			**State:**	NT
Bureau No.:	014015	**WMO No.:**	94120	**Aviation ID:**	YPDN	**Opened:**	01 Jan 1941	**Current Status:**	Still open
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Station Equipment History (continued)

Equipment Install/Remove(Continued)

06/SEP/2013 REMOVE Wind Run Anemometer (Type Synchrotac S/N - CBM658) Surface Observations
07/JUN/2002 REPLACE Wind Run Anemometer (Now Synchrotac S/N - CBM5541) Surface Observations

Minimum Temperature

26/SEP/2003 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - 20439) Surface Observations
31/JUL/2003 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - M1582) Surface Observations
01/FEB/1941 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - M1589) Surface Observations
24/SEP/2002 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - M1593) Surface Observations
02/APR/2008 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - 23231) Surface Observations
08/AUG/2001 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - M1589) Surface Observations
25/SEP/2003 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - M1593) Surface Observations
25/OCT/2006 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 23231) Surface Observations
22/FEB/2006 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - M1697) Surface Observations

Terrestial Minimum Temperature

24/SEP/2002 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - 21062) Surface Observations
26/APR/2004 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - 23360) Surface Observations
01/MAR/1991 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - M1593) Surface Observations
26/SEP/2003 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - M1593) Surface Observations
25/SEP/2003 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - 20439) Surface Observations
27/APR/2004 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - 23360) Surface Observations
07/AUG/2001 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - M1593) Surface Observations
17/FEB/2003 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 20439) Surface Observations
16/JAN/2014 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 23360) Surface Observations
04/JUN/2013 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 23360) Surface Observations
28/AUG/2007 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 27621) Surface Observations
13/MAR/2004 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M1710) Surface Observations
05/JUN/2013 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M1710) Surface Observations
24/MAY/2010 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M1710) Surface Observations
05/FEB/2021 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M3335) Surface Observations

Visibility

26/MAY/2005 INSTALL Visibility Meter (Type Vaisala FD12 S/N - A12101) Surface Observations

Soil Temperature 5cm (No Electronic History)

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Oxygen Content (No Electronic History)

RF Reflectivity

01/OCT/1958 INSTALL Radar (Type 277F S/N - Unknown) Upper Air
01/OCT/1958 INSTALL Radar (Type 277F S/N - Unknown) WeatherWatch
22/DEC/2008 INSTALL Radar (Type DWSR 2502C S/N - 20534) WeatherWatch
01/OCT/1968 INSTALL Radar (Type WF44 S/N - P0004) Upper Air
08/AUG/2001 INSTALL Radar (Type WF44 S/N - P0004) Upper Air
01/OCT/1968 INSTALL Radar (Type WF44 S/N - P0004) WeatherWatch
08/AUG/2001 INSTALL Radar (Type WF44 S/N - P0004) WeatherWatch
01/OCT/1968 INSTALL Radar Tower (Type Lattice WF44 - 30 ft S/N - Unknown) Infrastructure

Extended Climatological Station Metadata
All History

Station:	DARWIN AIRPORT			**Location:**	DARWIN AIRPORT			**State:**	NT
Bureau No.:	014015	**WMO No.:**	94120	**Aviation ID:**	YPDN	**Opened:**	01 Jan 1941	**Current Status:**	Still open
Latitude:	-12.4239	**Longitude:**	130.8925	**Elevation:**	30.4 m	**Barometer Elev:**	31.3 m	**Metadata compiled:**	26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

01/OCT/1968 REMOVE Radar (Type 277F S/N - Unknown) Upper Air
01/OCT/1968 REMOVE Radar (Type 277F S/N - Unknown) WeatherWatch
07/AUG/2001 REMOVE Radar (Type WF44 S/N - P0004) Upper Air
11/NOV/2008 REMOVE Radar (Type WF44 S/N - P0004) Upper Air
07/AUG/2001 REMOVE Radar (Type WF44 S/N - P0004) WeatherWatch
11/NOV/2008 REMOVE Radar (Type WF44 S/N - P0004) WeatherWatch
07/AUG/2001 REMOVE Radar Tower (Type Lattice WF44 - 30 ft S/N - Unknown) Infrastructure

Total Column Ozone Amount

09/SEP/1993 INSTALL Photo Spectrometer (Type Dobson S/N - 078) Radiation

Pressure

08/AUG/2001 INSTALL Barometer (Type Kew pattern mercury S/N - 1928) Surface Observations
01/FEB/1941 INSTALL Barometer (Type Kew pattern mercury S/N - 1928) Surface Observations
10/JAN/1998 INSTALL Barometer (Type Vaisala DPA25 S/N - 286763) Surface Observations
08/AUG/2001 INSTALL Barometer (Type Vaisala DPA25 S/N - 286763) Surface Observations
14/APR/1993 INSTALL Barometer (Type Vaisala PA11A S/N - 433552) Surface Observations
08/AUG/2001 INSTALL Barometer (Type Vaisala PA11A S/N - 433552) Surface Observations
30/JAN/2013 REMOVE Barometer (Type Kew pattern mercury S/N - 1928) Surface Observations
07/AUG/2001 REMOVE Barometer (Type Kew pattern mercury S/N - 1928) Surface Observations
11/NOV/2010 REMOVE Barometer (Type Vaisala DPA25 S/N - 229832) Surface Observations
07/AUG/2001 REMOVE Barometer (Type Vaisala DPA25 S/N - 286763) Surface Observations
07/AUG/2001 REMOVE Barometer (Type Vaisala PA11A S/N - 433552) Surface Observations
28/OCT/2002 REPLACE Barometer (Now Vaisala DPA25 S/N - 229832) Surface Observations
26/JUN/2012 REPLACE Barometer (Now Vaisala PTB220B S/N - D2220006) Surface Observations

Evaporation

16/AUG/2011 INSTALL Evaporation Pan (Type Class A S/N - NONE) Surface Observations
01/JUL/1957 INSTALL Evaporation Pan (Type Class A S/N - NONE) Surface Observations
08/AUG/2001 INSTALL Evaporation Pan (Type Class A S/N - NONE) Surface Observations
06/SEP/2013 REMOVE Evaporation Pan (Type Class A S/N - NONE) Surface Observations
07/AUG/2001 REMOVE Evaporation Pan (Type Class A S/N - NONE) Surface Observations
20/SEP/2014 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations
02/DEC/2010 REPLACE Evaporation Pan (Now Class A S/N - Unknown) Surface Observations

Rainfall

08/AUG/2001 INSTALL Pluviograph (Type Dines syphoning S/N - NONE) Rainfall Intensity
01/JAN/1951 INSTALL Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
01/JUN/2011 REMOVE Pluviograph (Type Dines syphoning S/N - NONE) Rainfall Intensity
07/AUG/2001 REMOVE Pluviograph (Type Dines syphoning S/N - Unknown) Rainfall Intensity
07/AUG/2001 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
01/JAN/1941 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations
22/OCT/2013 INSTALL Raingauge (Type HS-TB3/0.2/P S/N - 00005) Rainfall Intensity
01/JAN/2008 INSTALL Raingauge (Type Not Listed S/N - NONE) External Clients
01/OCT/1990 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - 204) Surface Observations
08/JAN/1993 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - 321790) Rainfall Intensity
08/AUG/2001 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - 77120) Rainfall Intensity

Extended Climatological Station Metadata
All History

Station:	DARWIN AIRPORT			**Location:**	DARWIN AIRPORT			**State:**	NT
Bureau No.:	014015	**WMO No.:**	94120	**Aviation ID:**	YPDN	**Opened:**	01 Jan 1941	**Current Status:**	Still open
Latitude:	-12.4239	**Longitude:**	130.8925	**Elevation:**	30.4 m	**Barometer Elev:**	31.3 m	**Metadata compiled:**	26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

08/AUG/2001 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - 77120) Surface Observations
07/AUG/2001 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
15/DEC/2014 REMOVE Raingauge (Type HS-TB3/0.2/P S/N - 00005) Rainfall Intensity
01/JAN/2011 REMOVE Raingauge (Type Not Listed S/N - NONE) External Clients
08/JAN/1993 REMOVE Raingauge (Type Rimco 7499 TBRG S/N - 204) Surface Observations
07/AUG/2001 REMOVE Raingauge (Type Rimco TBRG (type unspecified) S/N - 66217) Rainfall Intensity
08/AUG/2001 REMOVE Raingauge (Type Rimco TBRG (type unspecified) S/N - 66217) Surface Observations
10/FEB/1999 REPLACE Raingauge (Now 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
15/JUL/2011 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 90190) Rainfall Intensity
15/JUL/2011 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 90190) Surface Observations
07/AUG/2001 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 66217) Rainfall Intensity
07/AUG/2001 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 66217) Surface Observations
02/NOV/1999 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 77120) Rainfall Intensity
02/NOV/1999 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 77120) Surface Observations
16/MAR/2001 SHARE Raingauge (Type Rimco 7499 TBRG S/N - 321790) Surface Observations
16/MAR/2001 SHARE Raingauge (Type Rimco TBRG (type unspecified) S/N - 66217) Surface Observations
16/MAR/2001 SHARE Raingauge (Type Rimco TBRG (type unspecified) S/N - 77120) Surface Observations
18/MAR/2020 UNSHARE Raingauge (Type Rimco 7499 TBRG S/N - 90190) Rainfall Intensity

River Height (No Electronic History)

Solar Radiation

11/AUG/1995 INSTALL Global Pyranometer Mount (Type Carter Scott Mk1 S/N - Unknown) Radiation
09/SEP/1993 INSTALL Pyranometer (Type Kipp&Zonen CM11 S/N - 924031) Radiation
09/SEP/1993 INSTALL Pyranometer (Type Kipp&Zonen CM11 S/N - 924032) Radiation
01/JUN/2004 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 892629) Radiation
07/JUN/2006 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 892629) Radiation
01/JUN/2004 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 913435) Radiation
07/JUN/2006 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 913435) Radiation
17/JAN/2007 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924024) Radiation
11/AUG/1995 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924031) Radiation
24/SEP/1997 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924031) Radiation
23/JUL/1998 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924031) Radiation
24/OCT/1996 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924031) Radiation
11/AUG/1995 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924032) Radiation
24/OCT/1996 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924032) Radiation
23/JUL/1998 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924032) Radiation
24/SEP/1997 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924032) Radiation
26/APR/1999 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924050) Radiation
19/MAY/2000 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924050) Radiation
02/AUG/2002 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924050) Radiation
26/APR/1999 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924051) Radiation
19/MAY/2000 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924051) Radiation
02/AUG/2002 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924051) Radiation
17/JAN/2007 REPLACE Pyranometer (Now Kipp&Zonen CM11 S/N - 924649) Radiation

Extended Climatological Station Metadata
All History

Station:	DARWIN AIRPORT			**Location:**	DARWIN AIRPORT			**State:**	NT
Bureau No.:	014015	**WMO No.:**	94120	**Aviation ID:**	YPDN	**Opened:**	01 Jan 1941	**Current Status:**	Still open
Latitude:	-12.4239	**Longitude:**	130.8925	**Elevation:**	30.4 m	**Barometer Elev:**	31.3 m	**Metadata compiled:**	26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

Solar Radiation (Direct)

11/AUG/1995 INSTALL Pyrheliometer (Type Kipp&Zohen CH1 S/N - 940053) Radiation
01/JUN/2004 REPLACE Pyrheliometer (Now Carter Scott DN5 S/N - 5020) Radiation
26/APR/1999 REPLACE Pyrheliometer (Now Kipp&Zohen CH1 S/N - 940057) Radiation
01/MAY/2006 REPLACE Pyrheliometer (Now Kipp&Zohen CH1 S/N - 940060) Radiation

Turbidity (No Electronic History)

Sea Water Level (No Electronic History)

Sea Water Temperature (No Electronic History)

Wind Speed

15/FEB/1999 INSTALL Anemometer (Type Dines - Hi Speed S/N - 1896) Surface Observations
08/AUG/2001 INSTALL Anemometer (Type Dines - Hi Speed S/N - 1896) Surface Observations
01/JAN/1961 INSTALL Anemometer (Type Dines - Hi Speed S/N - Unknown) Surface Observations
23/DEC/2012 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 77976) Surface Observations
01/OCT/1990 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
09/JAN/1995 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
25/OCT/1999 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
01/OCT/1990 INSTALL Mast Anemometer (Type Pivot, Hydraulic S/N - NONE) Infrastructure
09/JAN/1995 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - Unknown) Infrastructure
08/AUG/2001 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - Unknown) Infrastructure
08/AUG/2001 INSTALL Wind Run Anemometer (Type Synchrotac S/N - CBM553) Surface Observations
01/JUL/1957 INSTALL Wind Run Anemometer (Type Synchrotac S/N - CBM5541) Surface Observations
16/AUG/2011 INSTALL Wind Run Anemometer (Type Synchrotac S/N - CBM658) Surface Observations
07/AUG/2001 REMOVE Anemometer (Type Dines - Hi Speed S/N - 1896) Surface Observations
01/OCT/1990 REMOVE Anemometer (Type Dines - Hi Speed S/N - Unknown) Surface Observations
06/AUG/2001 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
07/AUG/2001 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
06/AUG/2001 REMOVE Mast Anemometer (Type Pivot, Hydraulic S/N - NONE) Infrastructure
07/AUG/2001 REMOVE Mast Anemometer (Type Pivot, Standard 10m S/N - Unknown) Infrastructure
07/AUG/2001 REMOVE Wind Run Anemometer (Type Synchrotac S/N - CBM5541) Surface Observations
06/SEP/2013 REMOVE Wind Run Anemometer (Type Synchrotac S/N - CBM658) Surface Observations
22/NOV/2019 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 74080) Surface Observations
22/NOV/2019 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 060314) Surface Observations
23/DEC/2012 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 74058) Surface Observations
25/AUG/2011 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 76439) Surface Observations
31/JAN/2001 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - S78274D78207) Surface Observations
07/JUN/2002 REPLACE Wind Run Anemometer (Now Synchrotac S/N - CBM5541) Surface Observations

Air Temperature

21/FEB/2001 INSTALL Cable Assy, Humidity Probe (Type Rotronics (MOK) S/N - 14408-016) Surface Observations
21/FEB/2001 INSTALL Cable Assy, Humidity Probe (Type Rotronics (MOK) S/N - 14408-018) Surface Observations
06/MAY/2021 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 11666028) Surface Observations
21/FEB/2001 INSTALL Humidity Probe (Type Rotronics S/N - 12778-045) Surface Observations
21/FEB/2001 INSTALL Humidity Probe (Type Rotronics S/N - 12778-046) Surface Observations
18/APR/2001 REMOVE Cable Assy, Humidity Probe (Type Rotronics (MOK) S/N - 14408-016) Surface Observations

Extended Climatological Station Metadata
All History

Station:	DARWIN AIRPORT			**Location:**	DARWIN AIRPORT			**State:**	NT
Bureau No.:	014015	**WMO No.:**	94120	**Aviation ID:**	YPDN	**Opened:**	01 Jan 1941	**Current Status:**	Still open
Latitude:	-12.4239	**Longitude:**	130.8925	**Elevation:**	30.4 m	**Barometer Elev:**	31.3 m	**Metadata compiled:**	26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

18/APR/2001 REMOVE Cable Assy, Humidity Probe (Type Rotronics (MOK) S/N - 14408-018) Surface Observations
18/APR/2001 REMOVE Humidity Probe (Type Rotronics S/N - 12778-046) Surface Observations
18/APR/2001 REMOVE Humidity Probe (Type Rotronics S/N - 15989-067) Surface Observations
15/MAR/2001 REPLACE Humidity Probe (Now Rotronics S/N - 15989-067) Surface Observations
10/JAN/1998 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 0242) Surface Observations
08/AUG/2001 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 0537) Surface Observations
21/FEB/2001 INSTALL Temperature Probe - Dry Bulb (Type Unknown S/N - 12278-045) Surface Observations
21/FEB/2001 INSTALL Temperature Probe - Dry Bulb (Type Unknown S/N - 12778-046) Surface Observations
07/AUG/2001 REMOVE Temperature Probe - Dry Bulb (Type Rosemount S/N - 0242) Surface Observations
18/APR/2001 REMOVE Temperature Probe - Dry Bulb (Type Unknown S/N - 12778-046) Surface Observations
18/APR/2001 REMOVE Temperature Probe - Dry Bulb (Type Unknown S/N - 15989-067) Surface Observations
15/MAR/2001 REPLACE Temperature Probe - Dry Bulb (Now Unknown S/N - 15989-067) Surface Observations
01/JAN/1941 INSTALL Thermograph (Type Daily S/N - Unknown) Surface Observations
31/DEC/1962 REMOVE Thermograph (Type Daily S/N - Unknown) Surface Observations
31/JUL/2003 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 13643) Surface Observations
24/SEP/2002 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 15847) Surface Observations
01/FEB/1941 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - M0619) Surface Observations
02/APR/2008 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 13643) Surface Observations
31/JUL/2003 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - M0619) Surface Observations
08/APR/2009 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 24139) 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
21/JAN/2004 - 23/MAR/2021	Cloud Height	0
06/MAY/2021 - 06/MAY/2021	Humidity	0
24/SEP/2002 - 22/FEB/2006	Pressure Trend	0
24/NOV/2012 - 24/NOV/2012	Lightning	0
27/APR/2000 - 23/MAR/2021	Wind Direction	6
13/JUL/1999 - 23/MAR/2021	Wet Bulb Temperature	1
11/AUG/1995 - 11/AUG/1995	Solar Radiation (Long Wave)	0
22/FEB/2006 - 22/FEB/2006	Wind Run	0
31/OCT/2011 - 23/MAR/2021	Visibility	1
11/DEC/2012 - 15/JUL/2021	RF Reflectivity	0
12/JAN/1998 - 10/JUN/2021	Pressure	3
24/SEP/2002 - 07/NOV/2019	Evaporation	0
13/JUL/1999 - 14/AUG/2021	Rainfall	13
09/SEP/1993 - 23/JUL/1998	Solar Radiation	0
11/AUG/1995 - 11/AUG/1995	Solar Radiation (Direct)	0

Extended Climatological Station Metadata
All History

Station:	DARWIN AIRPORT			**Location:**	DARWIN AIRPORT			**State:**	NT
Bureau No.:	014015	**WMO No.:**	94120	**Aviation ID:**	YPDN	**Opened:**	01 Jan 1941	**Current Status:**	Still open
Latitude:	-12.4239	**Longitude:**	130.8925	**Elevation:**	30.4 m	**Barometer Elev:**	31.3 m	**Metadata compiled:**	26 JUL 2025

Station Equipment History (continued)

Available Date Range	Element	Fail Field Performance Check
27/APR/2000 - 23/MAR/2021	Wind Speed	6
13/JUL/1999 - 06/MAY/2021	Air Temperature	1

Station Detail Changes

09/MAY/2006 CLASSIFICATION AWS Funding - Aviation Funded Assets (AVAF)
12/OCT/2020 CLASSIFICATION AWS Priority 1 - Critical (SLP1-AWS)
01/JUL/2011 CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT)
01/JAN/2017 CLASSIFICATION Brisbane FIR Majors (BRIS_FIR_1)
26/JUN/2002 CLASSIFICATION CLIMAT Stations (CLC)
26/JUN/2002 CLASSIFICATION CLIMAT TEMP Stations (CLT)
09/MAY/2006 CLASSIFICATION Category A (TAF A)
30/NOV/2023 CLASSIFICATION Class 2 Precip (C2-PRECIP)
30/NOV/2023 CLASSIFICATION Class 3 Temp & RH (C3-TEMP-RH)
10/JAN/2011 CLASSIFICATION Critical (ASOSCRIT)
10/JUN/2014 CLASSIFICATION Critical Aviation or Defence (AVCRIT) ENDED 16-10-2020
09/JAN/1995 CLASSIFICATION Fielden (FFD)
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) ENDED 18-11-2002
30/AUG/2021 CLASSIFICATION Mastered in EAMS (EAMS)
01/MAY/1989 CLASSIFICATION National Benchmark Network for Agrometeorology (NBNA)
01/JAN/2017 CLASSIFICATION Northern Territory (1) (NT_1)
18/NOV/2002 CLASSIFICATION Observations Only (MO)
01/JUL/2017 CLASSIFICATION Observing Operations Hub - Darwin (OOH-D)
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)
01/JAN/1941 CLASSIFICATION Restricted Images (XIMG)
01/JAN/1941 OBJECT Document/014015-file-note-01-10-1984
01/DEC/2016 OBJECT Document/AVCAM - Darwin MO block diagram REV1
10/SEP/2020 OBJECT Document/CEILOMETER STATUS
22/APR/2013 OBJECT Document/CEILOMETER STATUS
07/NOV/2019 OBJECT Document/CEILOMETER STATUS
18/MAR/2020 OBJECT Document/CEILOMETER STATUS
19/MAR/2014 OBJECT Document/CEILOMETER STATUS
08/JUN/2011 OBJECT Document/CEILOMETER STATUS
23/MAR/2021 OBJECT Document/CEILOMETER STATUS
18/AUG/2017 OBJECT Document/Darwin Airport Radar Solar Cal
14/MAR/2018 OBJECT Document/External Visual Inspection V104 01032018 signed
24/APR/2017 OBJECT Document/External Visual Inspection V104 2202217

Extended Climatological Station Metadata
All History

Station:	DARWIN AIRPORT			**Location:**	DARWIN AIRPORT			**State:**	NT
Bureau No.:	014015	**WMO No.:**	94120	**Aviation ID:**	YPDN	**Opened:**	01 Jan 1941	**Current Status:**	Still open
Latitude:	-12.4239	**Longitude:**	130.8925	**Elevation:**	30.4 m	**Barometer Elev:**	31.3 m	**Metadata compiled:**	26 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

14/MAR/2018 OBJECT Document/External Visual Inspection V105 01032018 signed
24/APR/2017 OBJECT Document/External Visual Inspection V105 2202217
14/MAR/2018 OBJECT Document/External Visual Inspection V106 01032018 signed
24/APR/2017 OBJECT Document/External Visual Inspection V106 2202217
14/MAR/2018 OBJECT Document/External Visual Inspection V107 01032018 signed
24/APR/2017 OBJECT Document/External Visual Inspection V107 2202217
14/MAR/2018 OBJECT Document/F611_Feb 2018
22/JAN/2016 OBJECT Document/F611_Jan2016
24/APR/2017 OBJECT Document/F611_Jan2017
25/FEB/2014 OBJECT Document/HYDRO INSPECTION CHECKSHEET
21/JUL/2015 OBJECT Document/HYDRO INSPECTION CHECKSHEET
28/JUL/2011 OBJECT Document/HYDRO INSPECTION CHECKSHEET
14/MAR/2017 OBJECT Document/Licence to Operate PV1042-02
14/MAR/2017 OBJECT Document/Licence to Operate PV1042-07
14/MAR/2017 OBJECT Document/Licence to Operate PV1042-08
14/MAR/2017 OBJECT Document/Licence to Operate PV1042-10
22/FEB/2006 OBJECT Document/SKYLINE DATA
14/JUL/2011 OBJECT Document/SKYLINE DATA
28/MAR/2019 OBJECT Document/SKYLINE DATA
07/AUG/2001 OBJECT Document/SKYLINE DATA
22/FEB/2006 OBJECT Document/SKYLINE DATA - ANEMOMETER
14/JUL/2011 OBJECT Document/SKYLINE DATA - ANEMOMETER
28/MAR/2019 OBJECT Document/SKYLINE DATA - ANEMOMETER
22/AUG/2008 OBJECT Document/SKYLINE DATA - RADAR
13/NOV/2008 OBJECT Document/SKYLINE DATA - RADAR
11/AUG/2006 OBJECT Document/SKYLINE DATA - RADAR
07/AUG/2001 OBJECT Document/SKYLINE DATA - RADAR
28/APR/2016 OBJECT Document/TELVENT AWS CONFIGURATION
19/MAY/2016 OBJECT Document/TELVENT AWS CONFIGURATION
26/SEP/2016 OBJECT Document/TELVENT AWS CONFIGURATION
06/OCT/2016 OBJECT Document/TELVENT AWS CONFIGURATION
10/SEP/2020 OBJECT Document/VISIBILITY METER STATUS
22/APR/2013 OBJECT Document/VISIBILITY METER STATUS
18/MAR/2020 OBJECT Document/VISIBILITY METER STATUS
07/NOV/2019 OBJECT Document/VISIBILITY METER STATUS
08/JUN/2011 OBJECT Document/VISIBILITY METER STATUS
23/MAR/2021 OBJECT Document/VISIBILITY METER STATUS
23/JUN/2020 OBJECT Document/YPDN Anemometer History
01/JAN/1941 STATION - (nondb seeding) Opened
01/JAN/1941 STATION - (nondb seeding) aero_ht Changed to 31.4
01/JAN/1941 STATION - (nondb seeding) bar_ht Changed to 31
01/JAN/1941 STATION - (nondb seeding) bar_ht_deriv Changed to MAP 1:250 000
01/JAN/1941 STATION - (nondb seeding) stn_ht Changed to 30

Extended Climatological Station Metadata
All History

Station:	DARWIN AIRPORT			**Location:**	DARWIN AIRPORT			**State:**	NT
Bureau No.:	014015	**WMO No.:**	94120	**Aviation ID:**	YPDN	**Opened:**	01 Jan 1941	**Current Status:**	Still open
Latitude:	-12.4239	**Longitude:**	130.8925	**Elevation:**	30.4 m	**Barometer Elev:**	31.3 m	**Metadata compiled:**	26 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

01/JAN/1941 STATION - (nondb seeding) stn_ht_deriv Changed to MAP 1:250 000
01/JAN/1941 STATION - (nondb seeding) wmo_num Changed to 94120
01/JAN/1941 STATION aviation_id Changed to YPDN
10/JUN/2021 STATION bar_ht Changed to 31.31
07/AUG/2001 STATION bar_ht Changed to 35.0
07/AUG/2001 STATION bar_ht_deriv Changed to SURVEY
10/JUN/2021 STATION bar_ht_deriv Changed to SURVEY
07/AUG/2001 STATION latitude Changed to -12.42389
01/JAN/1941 STATION latitude Changed to -12.4245
01/JAN/1941 STATION latlon_deriv Changed to GPS
07/AUG/2001 STATION latlon_deriv Changed to SURVEY
07/AUG/2001 STATION latlon_error Changed to
01/JAN/1941 STATION latlon_error Changed to 29
01/JAN/1941 STATION longitude Changed to 130.8832
07/AUG/2001 STATION longitude Changed to 130.8925
13/JUL/1999 STATION lu_0_100m Changed to Airport
13/JUL/1999 STATION lu_100m_1km Changed to Airport
13/JUL/1999 STATION lu_1km_10km Changed to City area, buildings > 10 metres (3 storey)
01/JAN/1941 STATION name Changed to DARWIN AIRPORT
13/JUL/1999 STATION soil_type Changed to clay
07/AUG/2001 STATION stn_ht Changed to 30.4
07/AUG/2001 STATION stn_ht_deriv Changed to SURVEY
21/JAN/2004 STATION surface_type Changed to mostly covered by grass
13/JUL/1999 STATION surface_type Changed to mostly covered by grass

System Changes

07/AUG/2001 SYSTEM External Clients Ceased
01/JAN/1989 SYSTEM External Clients Commenced
07/AUG/2001 SYSTEM External Clients Commenced
07/AUG/2001 SYSTEM Infrastructure Ceased
01/JAN/1915 SYSTEM Infrastructure Commenced
07/AUG/2001 SYSTEM Infrastructure Commenced
09/SEP/1993 SYSTEM Radiation Commenced
07/AUG/2001 SYSTEM Rainfall Intensity Ceased
01/JAN/1951 SYSTEM Rainfall Intensity Commenced
07/AUG/2001 SYSTEM Rainfall Intensity Commenced
01/JAN/2007 SYSTEM Reference Standards Commenced
01/JAN/1941 SYSTEM Surface Observations Commenced
07/AUG/2001 SYSTEM Upper Air Ceased
01/JAN/1948 SYSTEM Upper Air Commenced
07/AUG/2001 SYSTEM Upper Air Commenced
07/AUG/2001 SYSTEM WeatherWatch Ceased
01/OCT/1958 SYSTEM WeatherWatch Commenced
07/AUG/2001 SYSTEM WeatherWatch Commenced

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 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.

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 Loactions
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).

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)

Notes on these metadata

Surface observations continued....

Set b)

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

Current Station Equipment Summary

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

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

Station Equipment History

Equipment Install/Remove

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

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

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

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

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

Unshare - The instrument is no longer shared between systems

Notes on these metadata

Calibration

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

Where a quantative 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

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