



Basic Climatological Station Metadata
Current status

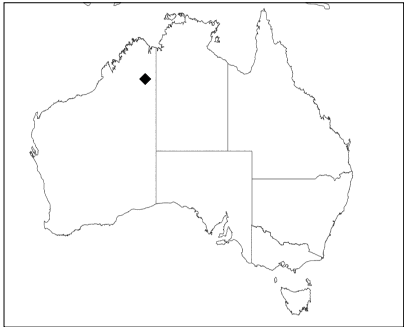
Metadata compiled: 26 JUL 2025

Station: HALLS CREEK METEOROLOGICAL OFFICE

Bureau of Meteorology station number: 002012
Bureau of Meteorology district name: East Kimberley
State: WA

World Meteorological Organization number: 99201
Identification: HCR

Network Classification: Regional Basic Synoptic Network
Station purpose: Synoptic, Upper Air, Aeronautical
Automatic Weather Station:



Current Station Location				
Latitude	Decimal	-18.2291	Hour Min Sec	18°13'45"S
Longitude	Decimal	127.6636	Hour Min Sec	127°39'49"E
Station Height	422 m	Barometer Height	423.9 m	
Method of station geographic positioning			GPS	

Year opened: 1944
Status: Open

Station summary

No summary for this site has been written as yet.

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



Basic Climatological Station Metadata
Current status

Station: HALLS CREEK METEOROLOGICAL OFFICE		Location: HALLS CREEK METEOROLOGICAL OFFICE		State: WA	
Bureau No.: 002012	WMO No.: 99201	Aviation ID: HCR	Opened: 01 Jan 1944		Current Status: Still open
Latitude: -18.2291	Longitude: 127.6636	Elevation: 422 m	Barometer Elev: 423.9 m		Metadata compiled: 26 JUL 2025

Observation summary

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



DAILY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
EVAPORATION	NOV 1968	JAN 2017	96.2	657	0
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	DEC 1968	JAN 2012	88.5	435	45
GROUND MINIMUM TEMPERATURE	JAN 1966	MAY 2016	95.7	779	0
MAXIMUM AIR TEMPERATURE	JAN 1944	DEC 2018	95.1	270	35
MAXIMUM WIND GUST SPEED	NOV 1962	FEB 2017	96.7	572	2
SUNSHINE HOURS	JAN 1970	MAY 1981	92.7	116	6
WIND RUN ABOVE 10 FEET	AUG 1996	FEB 2017	96.0	270	1
WIND RUN BELOW 10 FEET	FEB 1969	JAN 2017	96.3	632	0
RAINFALL	JAN 1944	DEC 2018	99	N/A	N/A

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HOURLY DATA HOLDINGS - from 1 to 24 observations per day

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
AIR TEMPERATURE	JAN 1944	JAN 2019	94.7	6.5	539	0
DEW POINT	JAN 1945	JAN 2019	89.4	6.5	532	47
MEAN SEA LEVEL PRESSURE	JUL 1951	JAN 2019	93.1	6.5	609	10
PRECIPITATION SINCE LAST OBS	JAN 1960	JUL 1999	70.2	4.5	3218	12
SOIL TEMPERATURE - 10cm	JUN 1973	MAY 2016	61.7	4.9	416	166
TOTAL CLOUD AMOUNT	JAN 1944	JUL 2016	90.9	5.5	938	0
WIND SPEED	JAN 1944	FEB 2017	94.8	6.7	616	0
UPPER AIR TEMPERATURE	JAN 1987	FEB 1987	61.3	4.0	20	0
UPPER AIR WIND SPEED	JAN 1950	OCT 2016	82.2	2.8	969	16

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RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	JUL 1955	JAN 2017	90.9	1386	21

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	JUL 2002	JAN 2019	98.3	1415.7	N/A	3

HALF-HOURLY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	DEC 1993	JAN 2019	93.2	44.7	N/A	3

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	Apr 2005	Oct 2016	N/A	2.0	417	3

Holdings calculated up to 01 Jul 2025

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

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

Unlisted element

- Minimum air temperature
- Wet bulb temperature
- Soil temperature at 20, 50 & 100cm
- Relative humidity
- Minimum temp. of water in evaporimeter
- Visual observations eg. weather, visibility
- Sea related observations

Listed element to use

- Maximum air temperature
- Dew point
- 10cm soil temperature
- Dew point
- Evaporimeter - max water temp
- Total cloud amount
- Sea state

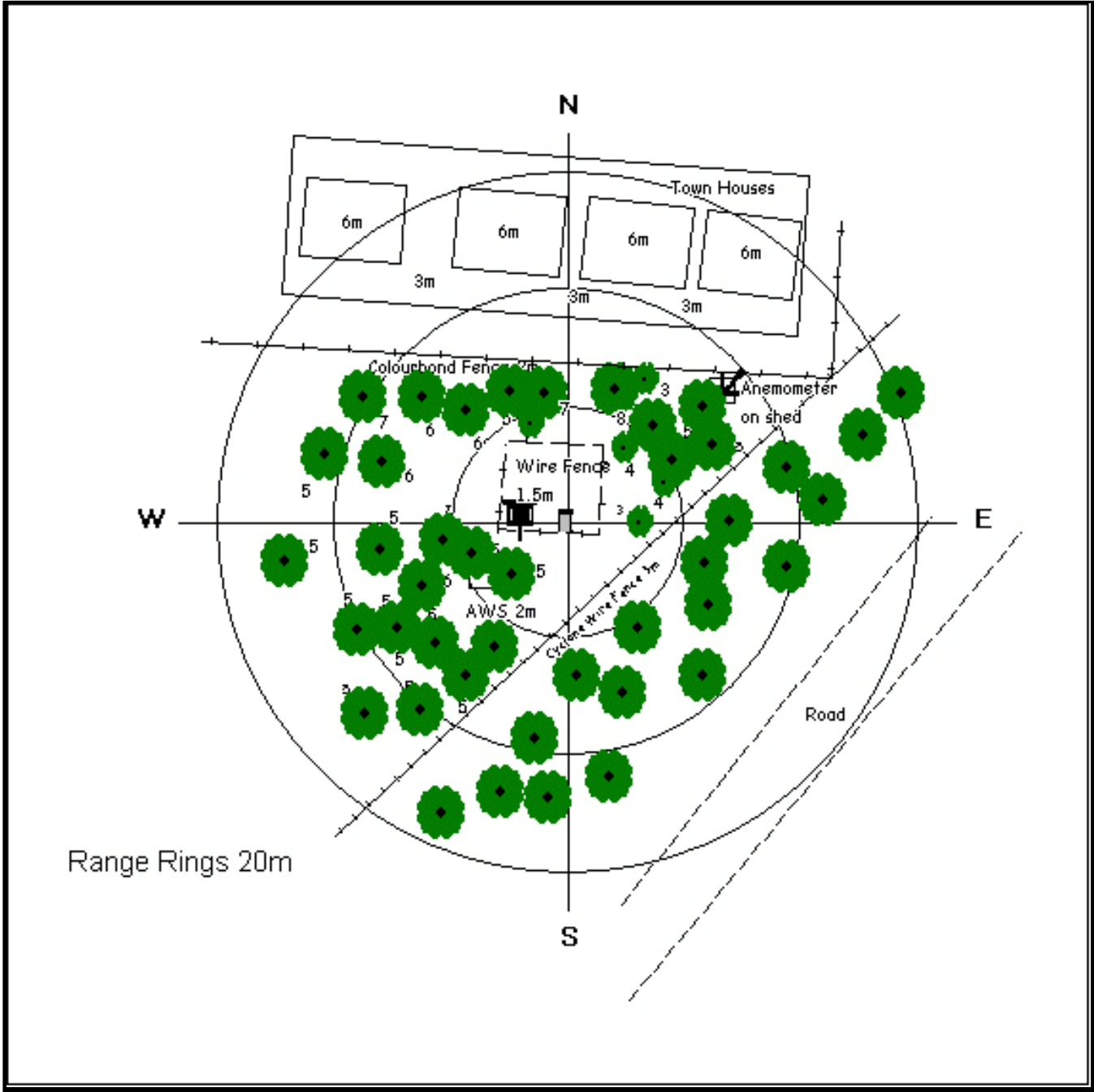
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Extended Climatological Station Metadata
All History

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Bureau No.: 002012		WMO No.: 99201		Aviation ID: HCR		Opened: 01 Jan 1944	
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Instrument Location and Surrounding Features
19/06/2018(most recent)



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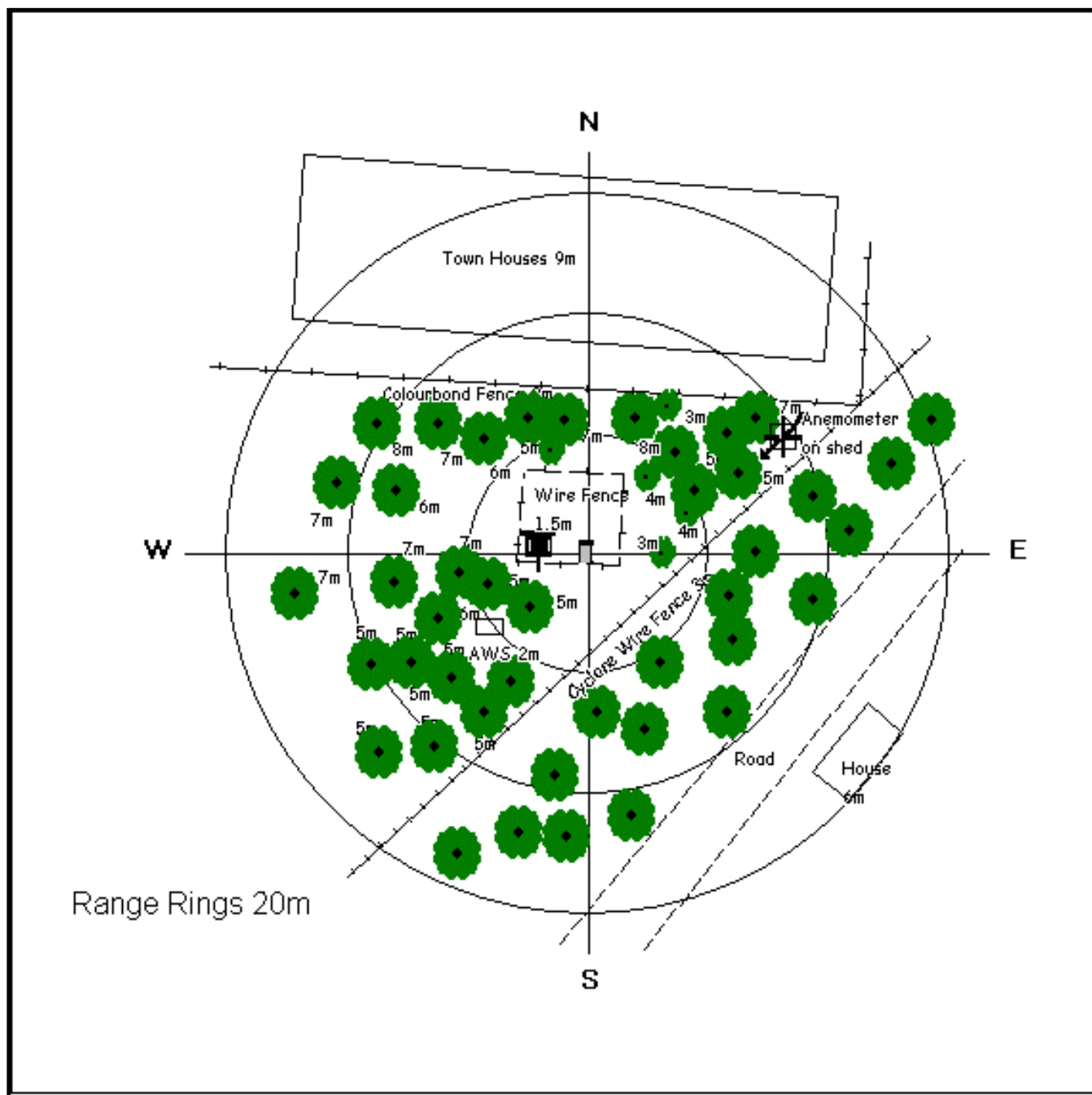
Extended Climatological Station Metadata

All History

Station:	HALLS CREEK METEOROLOGICAL OFFICE	Location:	HALLS CREEK METEOROLOGICAL OFFICE	State:	WA
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				Opened:	01 Jan 1944
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Instrument Location and Surrounding Features

13/07/2017



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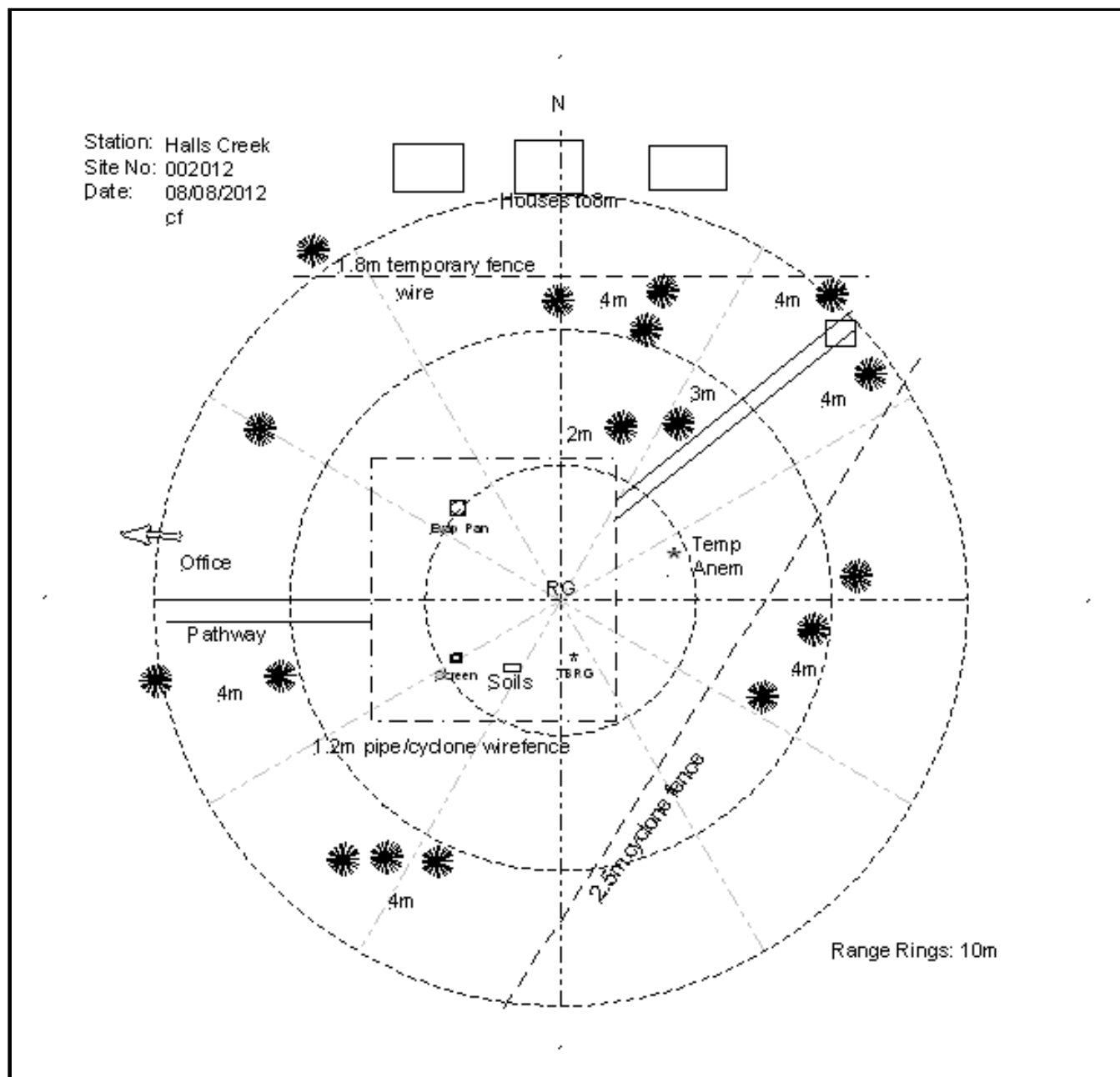
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Instrument Location and Surrounding Features

08/08/2012



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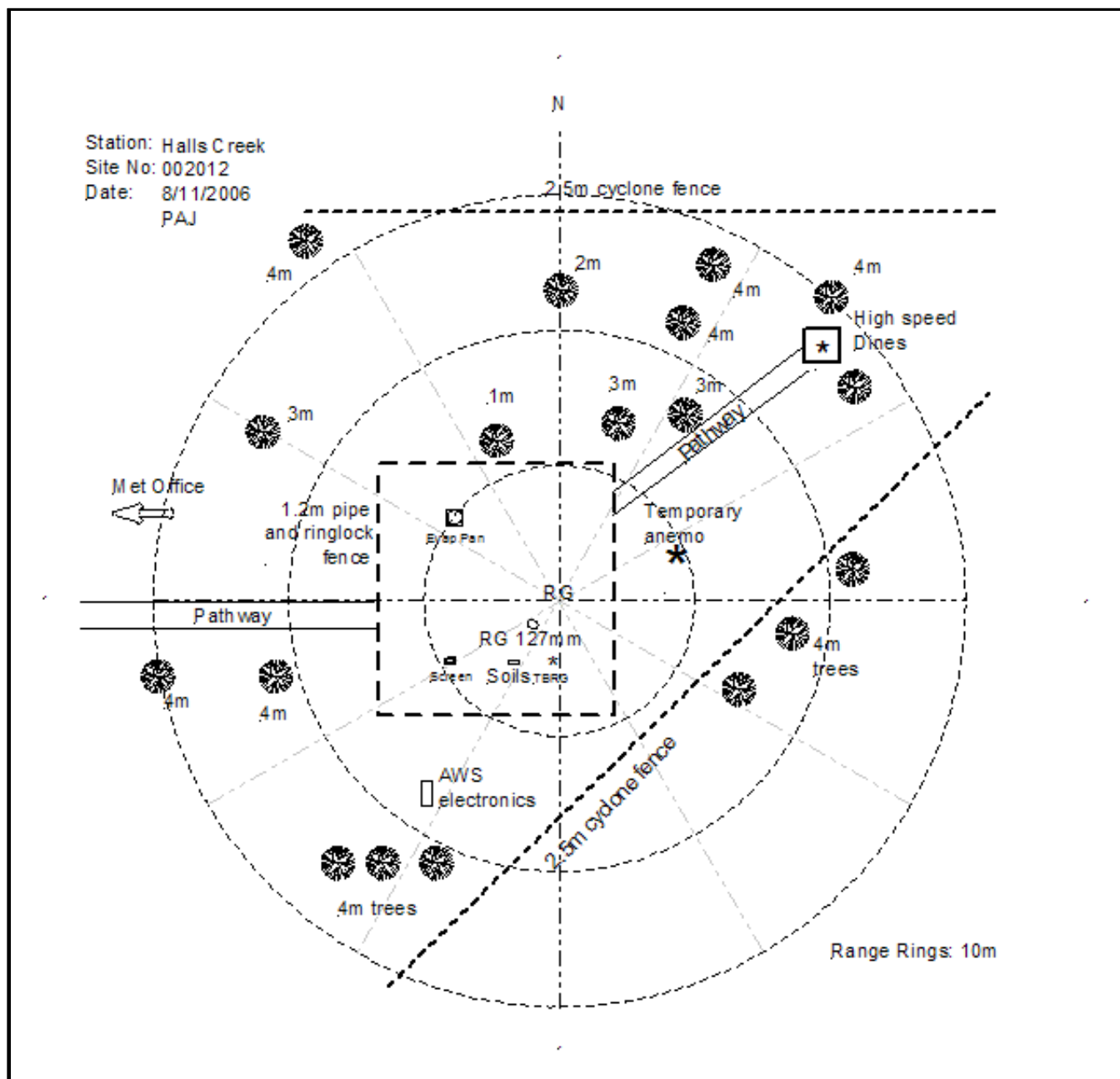
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Instrument Location and Surrounding Features

08/11/2006



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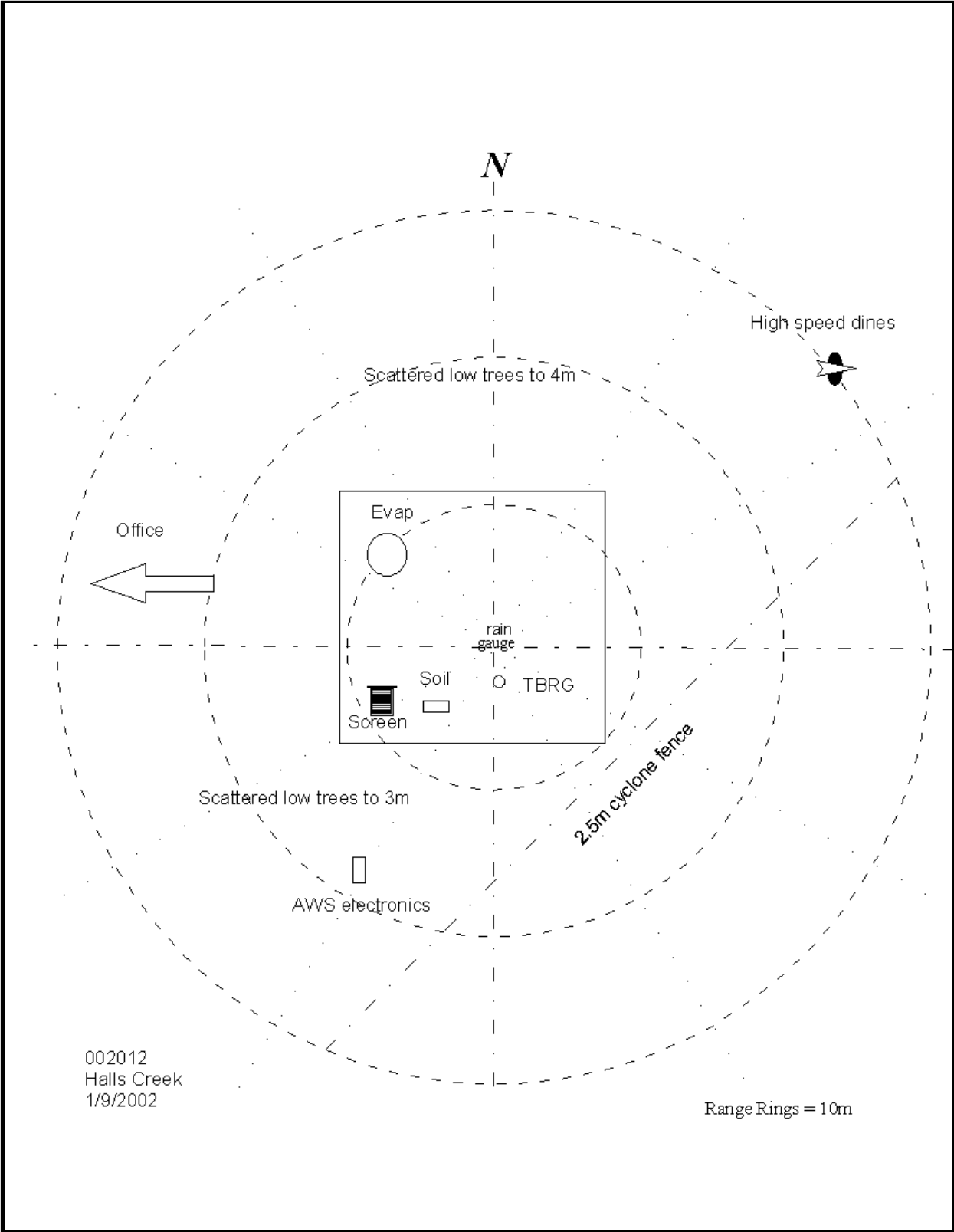
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Instrument Location and Surrounding Features
01/09/2002



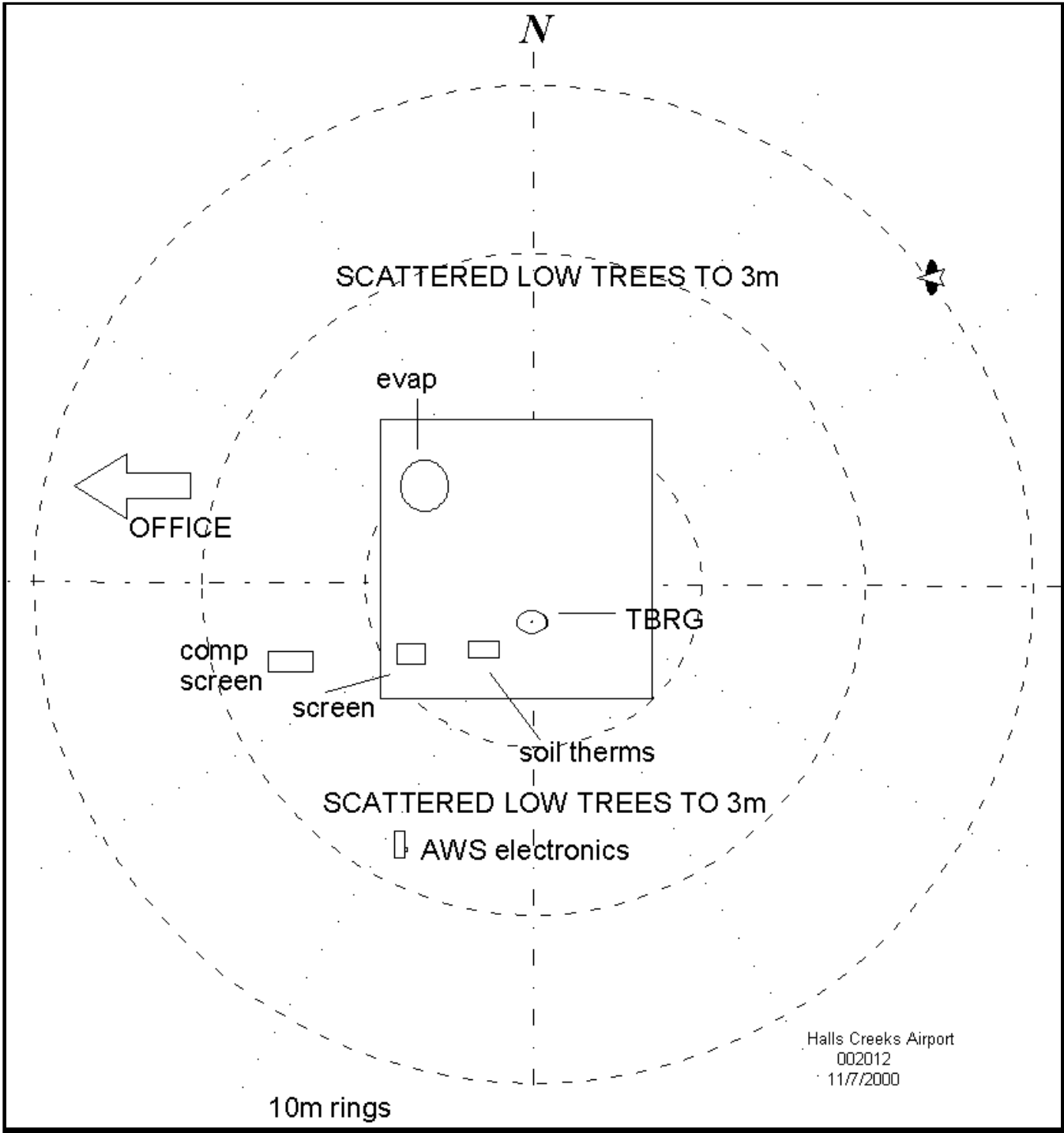
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Instrument Location and Surrounding Features
11/07/2000



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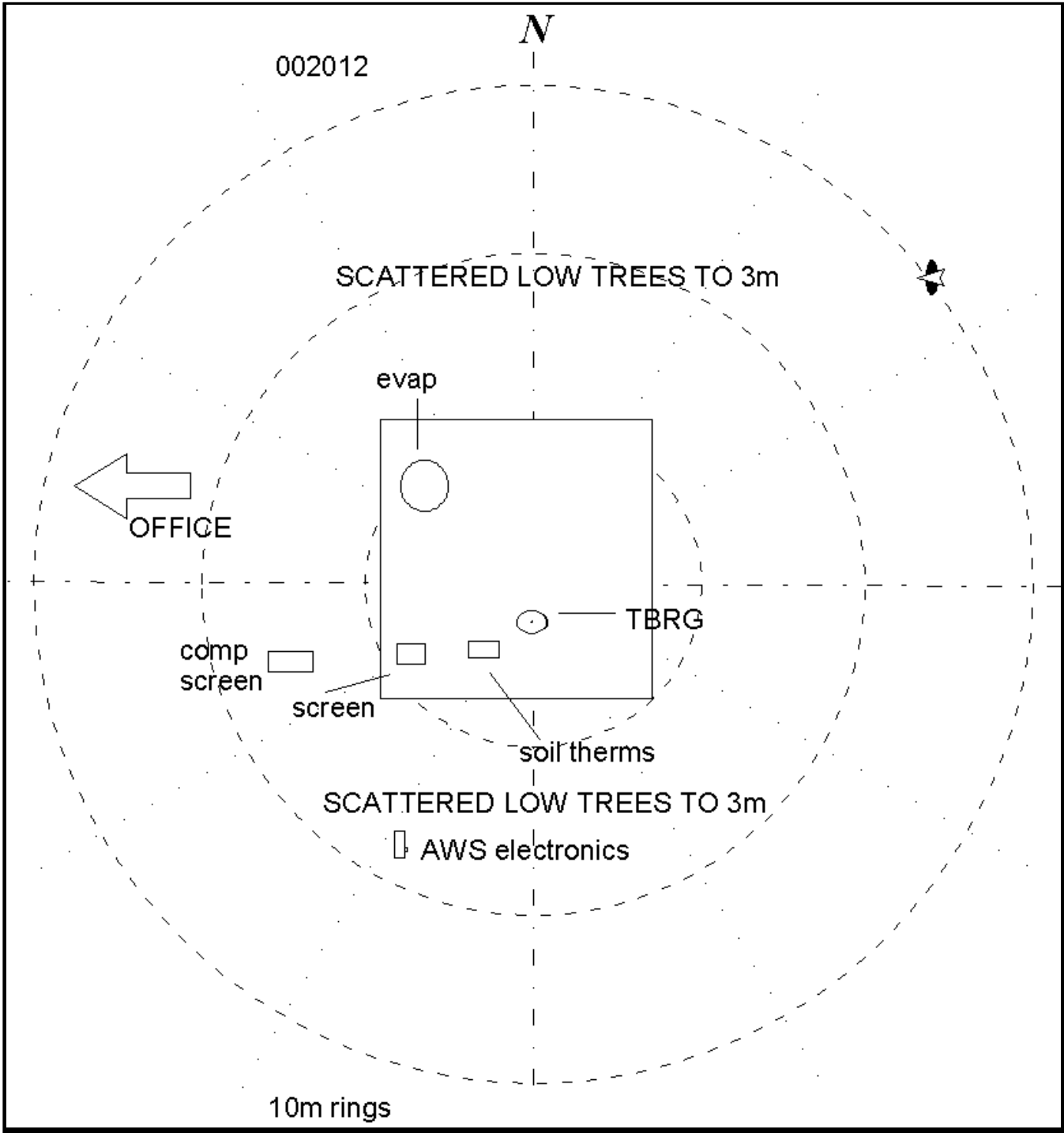
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Instrument Location and Surrounding Features
22/07/1999



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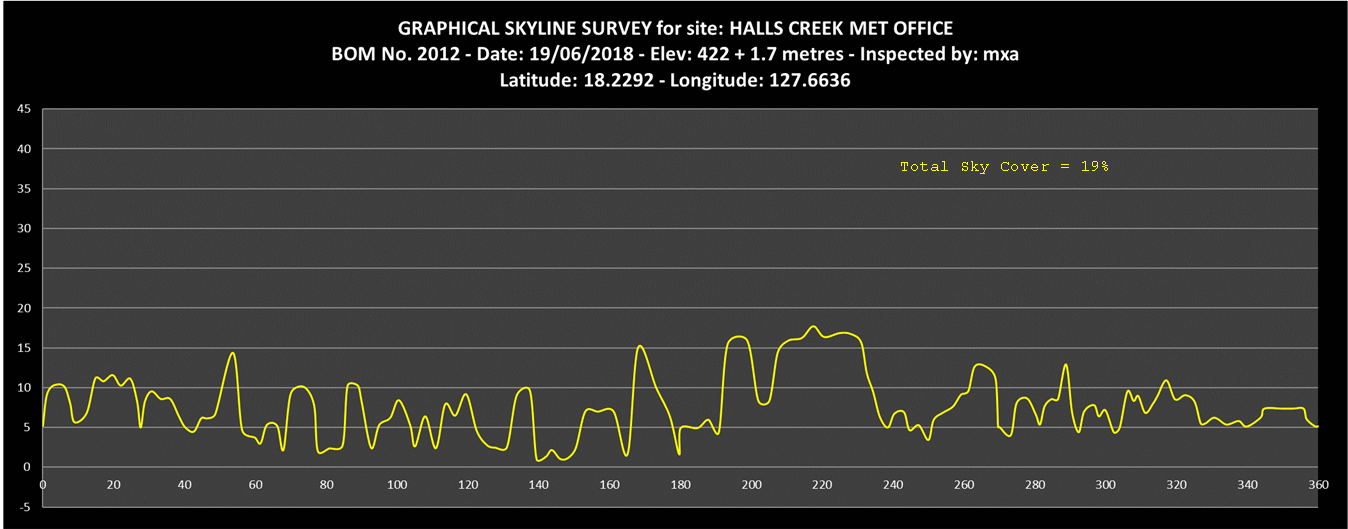
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Skyline Diagram
19/06/2018(most recent)



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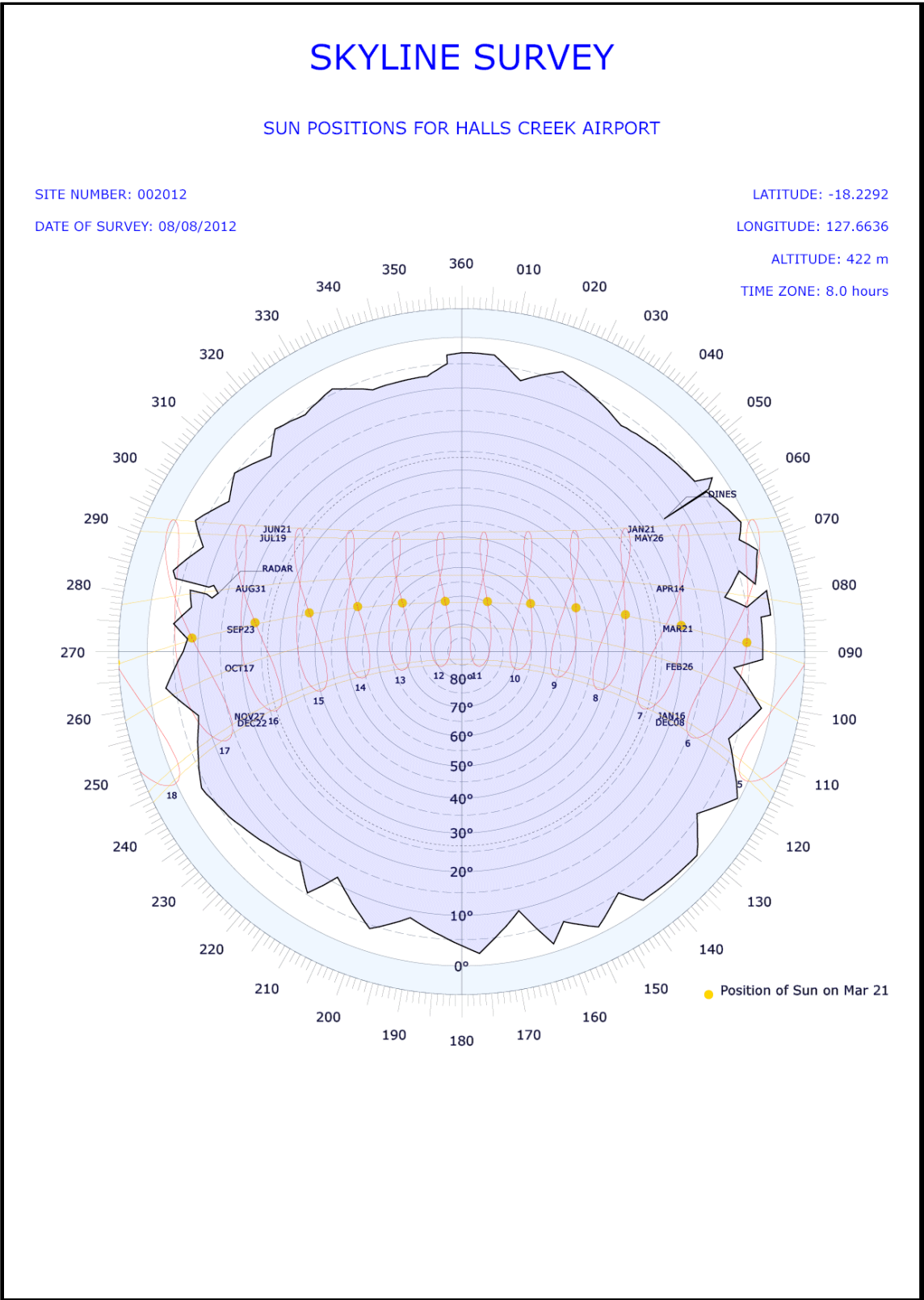
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Skyline Diagram
08/08/2012



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24/08/2008



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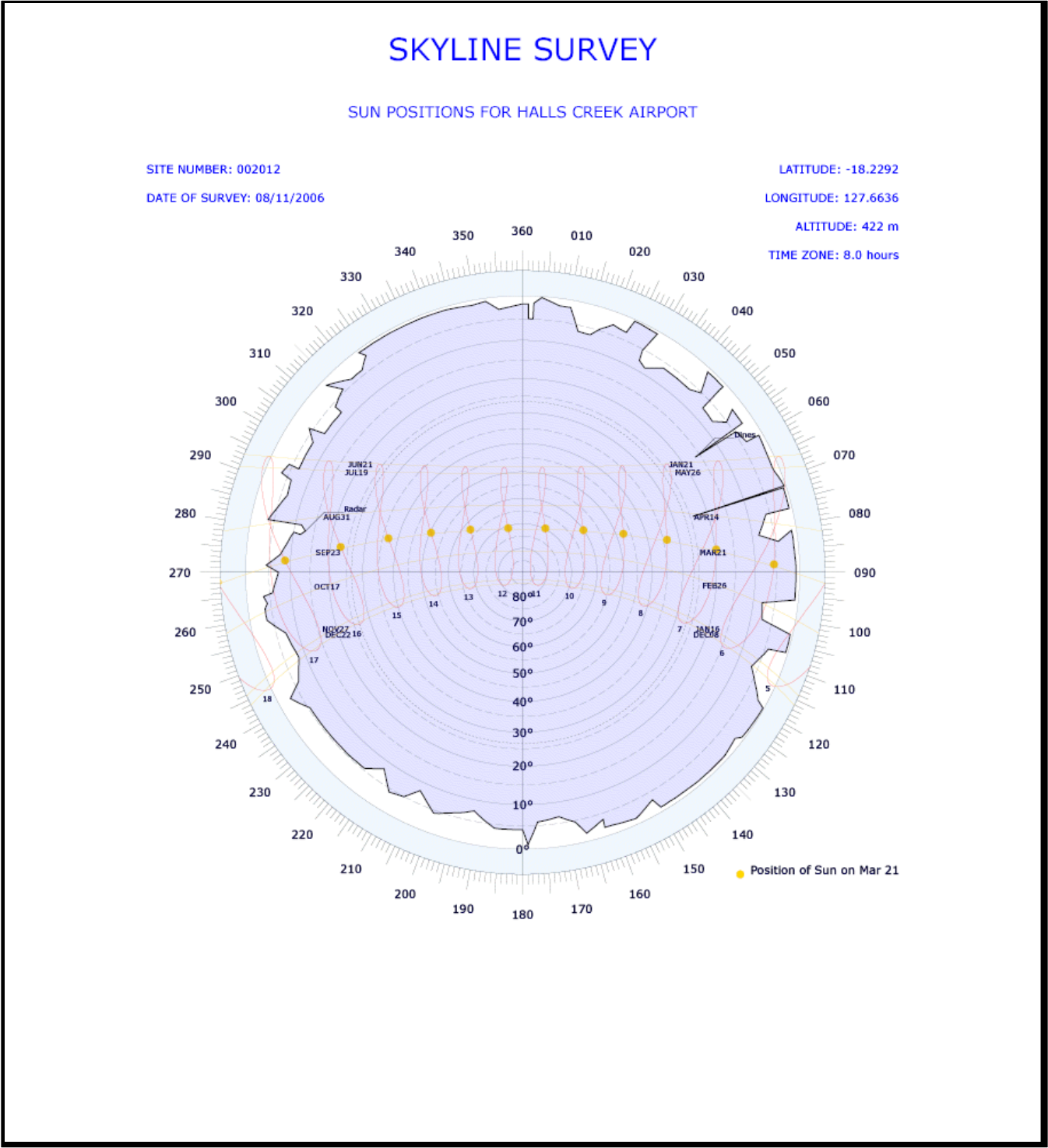
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Skyline Diagram
08/11/2006



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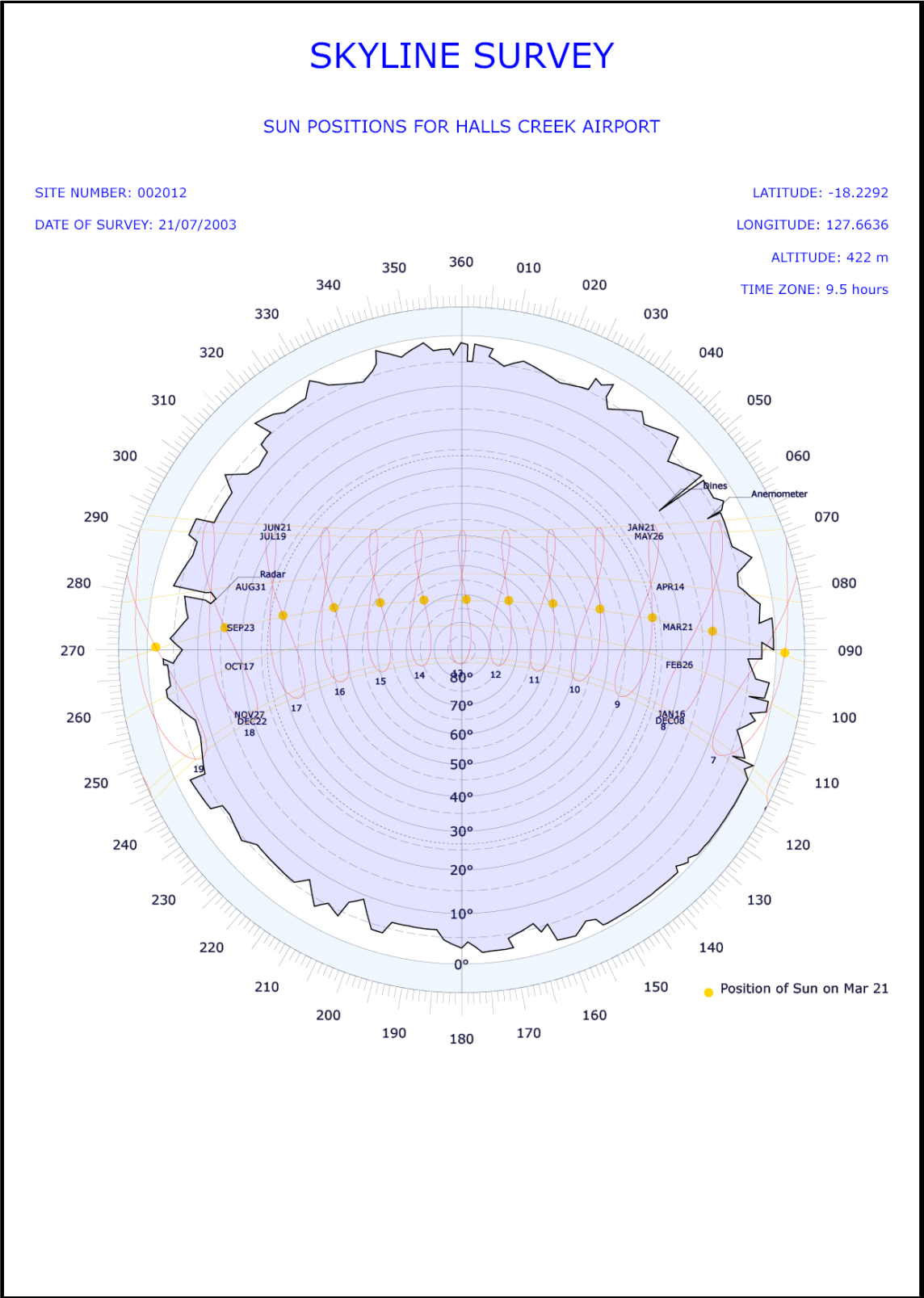
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Skyline Diagram
21/07/2003



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Station Observation Program Summary (Surface Observations) from 01/01/1944 to 15/11/2002

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	Y	Y

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

Station Observation Program Summary (Surface Observations) from 15/11/2002 to 28/04/2016

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

Station Observation Program Summary (Surface Observations) from 28/04/2016 to 08/01/2019

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) from 08/01/2019 to 09/01/2019

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	-	-

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

Upper Air Routine 01/07/1999 to 27/08/2009

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

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Station metadata	Wind	00:00	Y	Y	Y	Y	Y	Y	nor accept
	Wind	06:00	Y	Y	Y	Y	Y	Y	
	Wind	12:00	Y	Y	Y	Y	Y	Y	
	Wind	18:00							



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Upper Air Routine 27/08/2009 to 28/04/2016

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

Upper Air Routine 28/04/2016 to 13/01/2017

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

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All History

Station:	HALLS CREEK METEOROLOGICAL OFFICE			Location:	HALLS CREEK METEOROLOGICAL OFFICE			State:	WA
Bureau No.:	002012	WMO No.:	99201	Aviation ID:	HCR	Opened:	01 Jan 1944	Current Status:	Still open
Latitude:	-18.2291	Longitude:	127.6636	Elevation:	422 m	Barometer Elev:	423.9 m	Metadata compiled:	26 JUL 2025

Station Equipment History

Equipment Install/Remove

Cloud Height

01/NOV/1966 INSTALL Cloud Base Searchlight (Type 63 Degree S/N - 013) Surface Observations
10/OCT/2006 REMOVE Cloud Base Searchlight (Type 63 Degree S/N - 013) Surface Observations

Humidity

03/NOV/2016 INSTALL Humidity Probe (Type Rotronics S/N - 2292013) Surface Observations
10/OCT/2006 INSTALL Humidity Probe (Type Vaisala HMP45D S/N - V0720023) Surface Observations
09/JAN/2019 REMOVE Humidity Probe (Type Rotronics MP300-001 S/N - 1922000/4) Surface Observations
11/MAY/2017 REMOVE Humidity Probe (Type Unknown S/N - Unknown) Surface Observations
29/MAR/2017 REPLACE Humidity Probe (Now Rotronics MP300-001 S/N - 1922000/4) Surface Observations
24/JUN/2008 REPLACE Humidity Probe (Now Unknown S/N - Unknown) Surface Observations
01/NOV/1966 INSTALL Hygrograph (Type Hair Hygrograph S/N - Unknown) Surface Observations
14/JUN/1993 REMOVE Hygrograph (Type Hair Hygrograph S/N - Unknown) Surface Observations

Pressure Trend

01/NOV/1966 INSTALL Barograph (Type Weekly S/N - CMO274) Surface Observations
13/JAN/2017 REMOVE Barograph (Type Weekly S/N - CMO110) Surface Observations
24/SEP/1999 REPLACE Barograph (Now Weekly S/N - CMO110) Surface Observations
01/SEP/1999 REPLACE Barograph (Now Weekly S/N - CMO132) Surface Observations

Lightning (No Electronic History)

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

10/OCT/2006 INSTALL Anemometer (Type RM Young S/N - 28994) Surface Observations
25/AUG/1996 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 72372) Surface Observations
01/JAN/1944 INSTALL Anemometer (Type Wind Vane S/N - Unknown) Surface Observations
26/AUG/1996 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - NONE) Infrastructure
01/NOV/1966 INSTALL Wind Run Anemometer (Type Munro S/N - CBM705) Surface Observations
26/AUG/1996 REMOVE Anemometer (Type Dines S/N - Unknown) Surface Observations
11/MAY/2017 REMOVE Anemometer (Type RM Young S/N - 33807) Surface Observations
10/OCT/2006 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - 213(SPEED-UNIT)) Surface Observations
13/JAN/2017 REMOVE Wind Run Anemometer (Type Munro S/N - CBM705) Surface Observations
01/NOV/1966 REPLACE Anemometer (Now Dines S/N - Unknown) Surface Observations
24/JUN/2008 REPLACE Anemometer (Now RM Young S/N - 33807) Surface Observations
05/DEC/2001 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 213(SPEED-UNIT)) Surface Observations
10/OCT/2006 REPLACE Mast Anemometer (Now Telescopic, Al, 6m, Guyed S/N - Unknown) Infrastructure

Wet Bulb Temperature

25/AUG/1996 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 161) Surface Observations
03/NOV/2016 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 161) Surface Observations
03/JAN/2002 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - M0698) Surface Observations
01/JAN/1944 INSTALL Thermometer, Mercury, Wet Bulb (Type Unknown S/N - Unknown) Surface Observations
13/JAN/2017 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 19107) Surface Observations
25/AUG/1996 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - M0698) Surface Observations
30/AUG/2016 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 19107) Surface Observations
05/JAN/2006 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 24146) Surface Observations

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

01/MAR/2016 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M0698) Surface Observations
11/AUG/1995 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M0698) Surface Observations
24/JUL/2006 REPLACE Thermometer, Mercury, Wet Bulb (Now WIKA S/N - 23118) Surface Observations
09/OCT/2012 REPLACE Thermometer, Mercury, Wet Bulb (Now WIKA S/N - 23118) Surface Observations

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

03/JAN/2002 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 13418) Surface Observations
01/JAN/1944 INSTALL Thermometer, Mercury, Max (Type Unknown S/N - Unknown) Surface Observations
02/MAY/2016 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - 20881) Surface Observations
25/AUG/1996 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - M0428) Surface Observations
05/JUL/2012 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 13418) Surface Observations
16/NOV/2005 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 17370) Surface Observations
11/NOV/2014 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 20881) Surface Observations
01/SEP/2002 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - CBM4360) Surface Observations
11/AUG/1995 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M0428) Surface Observations

Soil Temperature 10cm

01/JAN/1973 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - 9572456) Surface Observations
02/SEP/2015 REMOVE Thermometer, Soil, 10cm (Type Dobros S/N - 9572456) Surface Observations

Soil Temperature 20cm

01/JAN/1973 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - 9566391) Surface Observations
02/MAY/2016 REMOVE Thermometer, Soil, 20cm (Type Dobros S/N - 9566391) Surface Observations

Soil Temperature 50cm

01/JAN/1973 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - CBM292) Surface Observations
02/MAY/2016 REMOVE Thermometer, Soil, 50cm (Type Dobros S/N - CBM292) Surface Observations

Snow Height (No Electronic History)

Soil Temperature 100cm

01/JAN/1973 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - CBM151) Surface Observations
02/MAY/2016 REMOVE Thermometer, Soil, 100cm (Type Dobros S/N - CBM151) Surface Observations
12/SEP/2011 REPLACE Thermometer, Soil, 100cm (Now Dobros S/N - CBM-201) Surface Observations
09/OCT/2012 REPLACE Thermometer, Soil, 100cm (Now Dobros S/N - CBM151) Surface Observations

Sunshine Hours

01/FEB/1970 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - Unknown) Surface Observations
31/MAY/1981 REMOVE Sunshine Recorder (Type Campbell-Stokes S/N - Unknown) Surface Observations

Wind Run

01/NOV/1966 INSTALL Wind Run Anemometer (Type Munro S/N - CBM705) Surface Observations
13/JAN/2017 REMOVE Wind Run Anemometer (Type Munro S/N - CBM705) Surface Observations

Minimum Temperature

03/JAN/2002 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - M1525) Surface Observations
24/NOV/2008 INSTALL Thermometer, Alcohol, Min (Type Unknown S/N - 29041) Surface Observations
01/JAN/1944 INSTALL Thermometer, Alcohol, Min (Type Unknown S/N - Unknown) Surface Observations
16/APR/2008 INSTALL Thermometer, Alcohol, Min (Type WIKA S/N - 29032) Surface Observations
25/AUG/1996 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - M0070) Surface Observations

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Extended Climatological Station Metadata

All History

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

16/AUG/2009 REMOVE Thermometer, Alcohol, Min (Type Unknown S/N - 29041) Surface Observations
13/OCT/2008 REMOVE Thermometer, Alcohol, Min (Type WIKA S/N - 29032) Surface Observations
02/MAY/2016 REMOVE Thermometer, Alcohol, Min (Type WIKA S/N - 32897) Surface Observations
31/JAN/2012 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 13281) Surface Observations
31/JAN/2008 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 43086) Surface Observations
11/AUG/1995 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - M0070) Surface Observations
28/AUG/2012 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - M1525) Surface Observations
24/AUG/2008 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - M1525) Surface Observations
08/MAY/2012 REPLACE Thermometer, Alcohol, Min (Now Unknown S/N - 29041) Surface Observations
01/FEB/2008 REPLACE Thermometer, Alcohol, Min (Now WIKA S/N - 27610) Surface Observations
28/MAY/2015 REPLACE Thermometer, Alcohol, Min (Now WIKA S/N - 32897) Surface Observations

Terrestrial Minimum Temperature

01/JAN/1966 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - Unknown) Surface Observations
12/MAY/2011 INSTALL Thermometer, Terrestrial, Min (Type Unknown S/N - 27647) Surface Observations
12/MAY/2011 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - 29041) Surface Observations
02/MAY/2016 REMOVE Thermometer, Terrestrial, Min (Type Unknown S/N - 27647) Surface Observations
02/JUL/2003 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 13281) Surface Observations
28/JUN/2006 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 13317) Surface Observations
11/JUL/2000 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 13317) Surface Observations
01/SEP/2002 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 17247) Surface Observations
26/JAN/2009 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 25909) Surface Observations
10/NOV/2009 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 29041) Surface Observations
11/AUG/1995 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M0072) Surface Observations
13/OCT/2008 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 27610) Surface Observations

Visibility (No Electronic History)

Soil Temperature 5cm (No Electronic History)

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Oxygen Content (No Electronic History)

RF Reflectivity

16/APR/2000 INSTALL Radar (Type WF100-5C S/N - 00030) Upper Air
16/APR/2000 INSTALL Radar (Type WF100-5C S/N - 00030) WeatherWatch
01/JUL/1967 INSTALL Radar (Type WF2 S/N - Unknown) Upper Air
16/APR/2000 INSTALL Radar Interface (Type BOM S/N - NONE) Upper Air
14/NOV/2017 INSTALL Radar Interface (Type BOM S/N - NONE) WeatherWatch
06/MAY/2016 INSTALL Radar Safety System (RSS) (Type RSS (2502C/8502S) S/N - 6003-07) WeatherWatch
18/APR/2000 INSTALL Radar Tower (Type Cylindrical WF100 - 15.75 m S/N - NONE) Infrastructure
30/JAN/2000 REMOVE Radar (Type WF2 S/N - Unknown) Upper Air
13/NOV/2017 REMOVE Radar Interface (Type BOM S/N - NONE) Upper Air
11/JAN/2018 UNSHARE Radar (Type WF100-5C S/N - 00030) Upper Air

Total Column Ozone Amount (No Electronic History)

Pressure

01/JUL/1951 INSTALL Barometer (Type Kew pattern mercury S/N - 2032) Surface Observations

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Extended Climatological Station Metadata

All History

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Bureau No.:	002012	WMO No.:	99201	Aviation ID:	HCR	Opened:	01 Jan 1944	Current Status:	Still open
Latitude:	-18.2291	Longitude:	127.6636	Elevation:	422 m	Barometer Elev:	423.9 m	Metadata compiled:	26 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

25/AUG/1996 INSTALL Barometer (Type Vaisala PA11A S/N - PO730021) Surface Observations
26/AUG/1996 REMOVE Barometer (Type Vaisala PA11 S/N - 307072) Surface Observations
09/JAN/2019 REMOVE Barometer (Type Vaisala PTB220B S/N - D1610044) Surface Observations
05/SEP/1979 REPLACE Barometer (Now Kew pattern mercury S/N - 1992) Surface Observations
01/JAN/1995 REPLACE Barometer (Now Vaisala PA11 S/N - 307072) Surface Observations
01/SEP/2003 REPLACE Barometer (Now Vaisala PA11A S/N - S0610003) Surface Observations
17/MAY/2011 REPLACE Barometer (Now Vaisala PTB220B S/N - D1610044) Surface Observations

Evaporation

01/NOV/1966 INSTALL Evaporation Pan (Type Class A S/N - Unknown) Surface Observations
13/JAN/2017 REMOVE Evaporation Pan (Type Class A S/N - NONE) Surface Observations
24/MAR/2014 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations
09/JAN/2009 REPLACE Evaporation Pan (Now Class A S/N - Unknown) Surface Observations
18/JUN/2006 REPLACE Evaporation Pan (Now Class A S/N - Unknown) Surface Observations
11/JUL/2000 REPLACE Evaporation Pan (Now Class A S/N - Unknown) Surface Observations
28/FEB/2005 REPLACE Evaporation Pan (Now Class A S/N - Unknown) Surface Observations

Rainfall

01/JAN/1955 INSTALL Pluviograph (Type Unknown S/N - Unknown) Rainfall Intensity
01/OCT/1996 REMOVE Pluviograph (Type Unknown S/N - Unknown) Rainfall Intensity
10/JUL/2000 INSTALL Raingauge (Type 127 mm (5in) - 500mm capacity S/N - NONE) Surface Observations
01/MAR/2001 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations
01/JAN/1944 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations
25/AUG/1996 INSTALL Raingauge (Type HS TB3A-0.2 S/N - 95-106) Surface Observations
13/JAN/2017 REMOVE Raingauge (Type 127 mm (5in) - 500mm capacity S/N - NONE) Surface Observations
13/JAN/2017 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
25/AUG/1996 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations
09/JAN/2019 REMOVE Raingauge (Type Rimco 7499 TBRG S/N - 372) Rainfall Intensity
09/JAN/2019 REMOVE Raingauge (Type Rimco 7499 TBRG S/N - 372) Surface Observations
05/JAN/2015 REPLACE Raingauge (Now 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
20/JAN/1999 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-880) Rainfall Intensity
20/JAN/1999 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-880) Surface Observations
11/NOV/2009 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 372) Rainfall Intensity
11/NOV/2009 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 372) Surface Observations
25/MAY/2001 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 070) Rainfall Intensity
25/MAY/2001 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 070) Surface Observations
01/OCT/1996 SHARE Raingauge (Type HS TB3A-0.2 S/N - 95-106) Rainfall Intensity
01/OCT/1996 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96-880) Rainfall Intensity
01/OCT/1996 SHARE Raingauge (Type Rimco 7499 TBRG S/N - 372) Rainfall Intensity
01/OCT/1996 SHARE Raingauge (Type Rimco TBRG (type unspecified) S/N - 070) Rainfall Intensity

River Height (No Electronic History)

Solar Radiation (No Electronic History)

Solar Radiation (Direct) (No Electronic History)

Turbidity (No Electronic History)

Sea Water Level (No Electronic History)

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

Sea Water Temperature (No Electronic History)

Wind Speed

10/OCT/2006 INSTALL Anemometer (Type RM Young S/N - 28994) Surface Observations
25/AUG/1996 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 72372) Surface Observations
01/JAN/1944 INSTALL Anemometer (Type Wind Vane S/N - Unknown) Surface Observations
26/AUG/1996 INSTALL Mast Anemometer (Type Pivot, Standard 10m S/N - NONE) Infrastructure
01/NOV/1966 INSTALL Wind Run Anemometer (Type Munro S/N - CBM705) Surface Observations
26/AUG/1996 REMOVE Anemometer (Type Dines S/N - Unknown) Surface Observations
11/MAY/2017 REMOVE Anemometer (Type RM Young S/N - 33807) Surface Observations
10/OCT/2006 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - 213(SPEED-UNIT)) Surface Observations
13/JAN/2017 REMOVE Wind Run Anemometer (Type Munro S/N - CBM705) Surface Observations
01/NOV/1966 REPLACE Anemometer (Now Dines S/N - Unknown) Surface Observations
24/JUN/2008 REPLACE Anemometer (Now RM Young S/N - 33807) Surface Observations
05/DEC/2001 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 213(SPEED-UNIT)) Surface Observations
10/OCT/2006 REPLACE Mast Anemometer (Now Telescopic, Al, 6m, Guyed S/N - Unknown) Infrastructure

Air Temperature

03/NOV/2016 INSTALL Humidity Probe (Type Rotronics S/N - 2292013) Surface Observations
10/OCT/2006 INSTALL Humidity Probe (Type Vaisala HMP45D S/N - V0720023) Surface Observations
09/JAN/2019 REMOVE Humidity Probe (Type Rotronics MP300-001 S/N - 1922000/4) Surface Observations
11/MAY/2017 REMOVE Humidity Probe (Type Unknown S/N - Unknown) Surface Observations
29/MAR/2017 REPLACE Humidity Probe (Now Rotronics MP300-001 S/N - 1922000/4) Surface Observations
24/JUN/2008 REPLACE Humidity Probe (Now Unknown S/N - Unknown) Surface Observations
25/AUG/1996 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 118) Surface Observations
09/JAN/2019 REMOVE Temperature Probe - Dry Bulb (Type Rosemount S/N - 118) Surface Observations
01/NOV/1966 INSTALL Thermograph (Type Weekly S/N - Unknown) Surface Observations
05/MAR/1996 REMOVE Thermograph (Type Weekly S/N - Unknown) Surface Observations
22/JUL/1999 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 12593) Surface Observations
01/JAN/1944 INSTALL Thermometer, Mercury, Dry Bulb (Type Unknown S/N - Unknown) Surface Observations
13/JAN/2017 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 15863) Surface Observations
25/AUG/1996 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - M0829) Surface Observations
09/OCT/2012 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 15863) Surface Observations
11/JUL/2000 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 16887) Surface Observations
11/AUG/1995 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - M0829) Surface Observations

Surface Inclination (No Electronic History)

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Station Equipment History (continued)

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
03/NOV/2016 - 01/NOV/2018	Humidity	1
22/JUL/1999 - 12/JUL/2013	Pressure Trend	0
28/APR/1999 - 12/JUL/2013	Wind Direction	2
28/APR/1999 - 03/NOV/2016	Wet Bulb Temperature	1
01/SEP/2002 - 12/JUL/2013	Maximum Temperature	0
22/JUL/1999 - 12/JUL/2013	Soil Temperature 10cm	0
22/JUL/1999 - 12/JUL/2013	Soil Temperature 20cm	0
22/JUL/1999 - 12/JUL/2013	Soil Temperature 50cm	0
22/JUL/1999 - 12/JUL/2013	Soil Temperature 100cm	0
22/JUL/1999 - 12/JUL/2013	Wind Run	0
01/SEP/2002 - 12/JUL/2013	Minimum Temperature	0
22/JUL/1999 - 12/JUL/2013	Terrestrial Minimum Temperature	0
17/APR/2000 - 10/JUN/2021	RF Reflectivity	3
22/JUL/1999 - 01/NOV/2018	Pressure	1
11/JUL/2000 - 13/AUG/2015	Evaporation	2
20/JAN/1999 - 01/NOV/2018	Rainfall	5
28/APR/1999 - 12/JUL/2013	Wind Speed	2
28/APR/1999 - 01/NOV/2018	Air Temperature	1

Station Detail Changes

01/JUL/2011	CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT) ENDED 12-01-2017
25/AUG/1996	CLASSIFICATION Building (FBL)
26/JUN/2002	CLASSIFICATION CLIMAT Stations (CLC) ENDED 09-01-2019
09/MAY/2006	CLASSIFICATION Category D (TAF D) ENDED 09-01-2019
10/JAN/2011	CLASSIFICATION Critical (ASOSCRIT) ENDED 09-01-2019
12/JAN/2017	CLASSIFICATION Excluded from Web Access (RWEBX) ENDED 09-01-2019
01/MAY/1997	CLASSIFICATION GCOS Surface Network (GSN) ENDED 09-01-2019
01/JUL/2018	CLASSIFICATION HQ EVAPORATION (HQEVAP) ENDED 09-01-2019
01/JUL/1998	CLASSIFICATION Information and Observations (MIO) ENDED 11-01-2017
30/AUG/2021	CLASSIFICATION Mastered in EAMS (EAMS)
21/MAR/2016	CLASSIFICATION NOT Processed by ASOS (NPBA) ENDED 12-01-2017
01/MAY/1989	CLASSIFICATION National Benchmark Network for Agrometeorology (NBNA) ENDED 09-01-2019
01/JUL/2017	CLASSIFICATION Observing Operations Hub - Darwin (OOH-D)
12/JAN/2017	CLASSIFICATION Processed by ASOS (PBA) ENDED 09-01-2019
01/SEP/1992	CLASSIFICATION Reference Climate Stations (RCS) ENDED 30-06-2011
14/FEB/1997	CLASSIFICATION Regional Basic Synoptic Network (RBSN)
10/JUN/2014	CLASSIFICATION Standard Aviation or Defence (AVSTD) ENDED 12-01-2017

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Extended Climatological Station Metadata

All History

Station:	HALLS CREEK METEOROLOGICAL OFFICE			Location:	HALLS CREEK METEOROLOGICAL OFFICE			State:	WA
Bureau No.:	002012	WMO No.:	99201	Aviation ID:	HCR	Opened:	01 Jan 1944	Current Status:	Still open
Latitude:	-18.2291	Longitude:	127.6636	Elevation:	422 m	Barometer Elev:	423.9 m	Metadata compiled:	26 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

01/JUL/1998 CLASSIFICATION Upper Wind only (UW) ENDED 12-01-2017
16/AUG/2009 OBJECT Document/002012090816tnt
11/SEP/2011 OBJECT Document/002012110911tnt
19/JUN/2018 OBJECT Document/Halls Creek MO -2012 - ASOS config
24/AUG/2008 OBJECT Document/Housing Encroachment 2008
17/MAR/2010 OBJECT Document/PROFILER ANTENNA TUNING TEMPLATE
18/JUN/2019 OBJECT Document/RSS VALIDATION RECORD
08/AUG/2012 OBJECT Document/SKYLINE DATA
08/NOV/2006 OBJECT Document/SKYLINE DATA
19/JUN/2018 OBJECT Document/SKYLINE DATA
24/AUG/2008 OBJECT Document/SKYLINE DATA
21/JUL/2003 OBJECT Document/SKYLINE DATA
08/NOV/2006 OBJECT Document/SKYLINE DATA - ANEMOMETER
24/AUG/2008 OBJECT Document/SKYLINE DATA - ANEMOMETER
17/MAR/2010 OBJECT Document/SolarCal Cband
01/JAN/1944 STATION - (nondb seeding) Opened
01/JAN/1944 STATION - (nondb seeding) aero_ht Changed to 410.3
01/JAN/1944 STATION - (nondb seeding) bar_ht Changed to 424
01/JAN/1944 STATION - (nondb seeding) bar_ht_deriv Changed to SURVEY
01/JAN/1944 STATION - (nondb seeding) latitude Changed to -18.2303
01/JAN/1944 STATION - (nondb seeding) longitude Changed to 127.6625
01/JAN/1944 STATION - (nondb seeding) name Changed to HALLS CREEK AMO
01/JAN/1944 STATION - (nondb seeding) stn_ht Changed to 422
01/JAN/1944 STATION - (nondb seeding) stn_ht_deriv Changed to SURVEY
01/JAN/1944 STATION - (nondb seeding) wmo_num Changed to 94212
12/JAN/2017 STATION aviation_id Changed to HCR
31/OCT/1997 STATION aviation_id Changed to YHLC
10/APR/2000 STATION bar_ht Changed to 423.9
25/AUG/1996 STATION bar_ht Changed to 424.6
25/AUG/1996 STATION bar_ht_deriv Changed to SURVEY
10/APR/2000 STATION bar_ht_deriv Changed to SURVEY
19/JUN/2018 STATION latitude Changed to -18.22914
01/SEP/2002 STATION latitude Changed to -18.2292GPS using WGS84
14/JUN/1993 STATION latitude Changed to -18.2303
19/JUN/2018 STATION latlon_deriv Changed to GPS
14/JUN/1993 STATION latlon_deriv Changed to GPS
01/SEP/2002 STATION latlon_deriv Changed to GPS
14/JUN/1993 STATION latlon_error Changed to
19/JUN/2018 STATION latlon_error Changed to 2
14/JUN/1993 STATION longitude Changed to 127.6625
19/JUN/2018 STATION longitude Changed to 127.66359
01/SEP/2002 STATION longitude Changed to 127.6636GPS using WGS84
22/JUL/1999 STATION lu_0_100m Changed to Town 1000 to 10,000

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Extended Climatological Station Metadata
All History

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Latitude:	-18.2291	Longitude:	127.6636	Elevation:	422 m	Barometer Elev:	423.9 m	Metadata compiled:	26 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

22/JUL/1999 STATION lu_100m_1km Changed to Town 1000 to 10,000
22/JUL/1999 STATION lu_1km_10km Changed to Open farmland, grassland or tundra
04/FEB/1999 STATION name Changed to HALLS CREEK AIRPORT
12/JAN/2017 STATION name Changed to HALLS CREEK METEOROLOGICAL OFFICE
22/JUL/1999 STATION soil_type Changed to red soil
08/NOV/2006 STATION surface_type Changed to bare ground
22/JUL/1999 STATION surface_type Changed to partly covered by grass
12/JAN/2017 STATION wmo_num Changed to 99201

System Changes

01/JAN/1944 SYSTEM Infrastructure Commenced
26/MAR/2019 SYSTEM Rainfall Intensity Ceased
01/JAN/1955 SYSTEM Rainfall Intensity Commenced
13/JAN/2017 SYSTEM Reference Standards Ceased
01/JAN/2011 SYSTEM Reference Standards Commenced
09/JAN/2019 SYSTEM Surface Observations Ceased
01/JAN/1944 SYSTEM Surface Observations Commenced
01/JAN/1967 SYSTEM Upper Air Commenced
16/APR/2000 SYSTEM WeatherWatch Commenced

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Notes on these metadata

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

Reliability of the metadata

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

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

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

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

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

Station Number

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

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

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Notes on these metadata

Network Classification

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

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

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Notes on these metadata

Network Classification Continued....

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

Station Purpose

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

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

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

Station Observation Program Summary

Surface Observations

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

Set a)

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

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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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