



Basic Climatological Station Metadata
Current status

Metadata compiled: 28 JUL 2025

Station: DAVIS

Bureau of Meteorology station number: 300000

Bureau of Meteorology district name:

State: ANT

World Meteorological Organization number: 89571

Identification: DAVI

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

Station purpose: Synoptic, Upper Air, Aeronautical

Automatic Weather Station: Almos



Current Station Location				
Latitude	Decimal	-68.5744	Hour Min Sec	68°34'28"S
Longitude	Decimal	77.9672	Hour Min Sec	77°58'2"E
Station Height	18 m	Barometer Height	23.2 m	
Method of station geographic positioning			GPS	

Year opened: 1957

Status: Open

Station summary

No summary for this site has been written as yet.

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

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Basic Climatological Station Metadata
Current status

Station:	DAVIS	Location:	DAVIS	State:	ANT
Bureau No.:	300000	WMO No.:	89571	Aviation ID:	DAVI
Latitude:	-68.5744	Longitude:	77.9672	Elevation:	18 m
		Barometer Elev:	23.2 m	Opened:	01 Jan 1957
				Current Status:	Still open
				Metadata compiled:	28 JUL 2025

Observation summary

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



DAILY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	JAN 1974	JAN 1974	3.2	30	0
1 8 5 0	1 9 0 0	1 9 5 0		2 0 0 0	
MAXIMUM AIR TEMPERATURE	FEB 1957	JUN 2025	93.5	32	52
1 8 5 0	1 9 0 0	1 9 5 0		2 0 0 0	
MAXIMUM WIND GUST SPEED	FEB 1957	JUN 2025	92.6	117	56
1 8 5 0	1 9 0 0	1 9 5 0		2 0 0 0	
SUNSHINE HOURS	JUL 1959	JUN 2025	90.6	301	64
1 8 5 0	1 9 0 0	1 9 5 0		2 0 0 0	
WIND RUN ABOVE 10 FEET	FEB 1957	JUN 2025	92.9	175	52
1 8 5 0	1 9 0 0	1 9 5 0		2 0 0 0	
WIND RUN BELOW 10 FEET	JUL 1970	JAN 1988	2.4	29	205
1 8 5 0	1 9 0 0	1 9 5 0		2 0 0 0	
RAINFALL	JAN 1960	JUL 2025	80	N/A	N/A
1 8 5 0	1 9 0 0	1 9 5 0		2 0 0 0	

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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	FEB 1957	JUN 2025	93.3	9.0	12	52
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	2 0 0 0
DEW POINT	FEB 1957	JUN 2025	93.3	9.0	14	52
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	2 0 0 0
MEAN SEA LEVEL PRESSURE	FEB 1957	JUN 2025	93.3	9.0	12	52
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	2 0 0 0
TOTAL CLOUD AMOUNT	FEB 1957	JUN 2025	91.4	6.4	62	52
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	2 0 0 0
WIND SPEED	FEB 1957	JUN 2025	93.3	9.0	12	52
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	2 0 0 0
UPPER AIR TEMPERATURE	APR 1959	JUN 2025	81.0	1.7	784	91
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	2 0 0 0
UPPER AIR WIND SPEED	FEB 1957	JUN 2025	78.4	2.0	1063	85
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0		2 0 0 0	2 0 0 0

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THERE ARE NO RAINFALL INTENSITY DATA HOLDINGS

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	MAY 2002	JUL 2025	98.1	1412.3	N/A	1

HALF-HOURLY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	SEP 1994	JUL 2025	106.1	50.9	N/A	68

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	Mar 2003	Feb 2019	N/A	1.0	1023	156
Wind, temperature and pressure flights	Jan 1995	Feb 2019	N/A	1.8	340	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

- 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

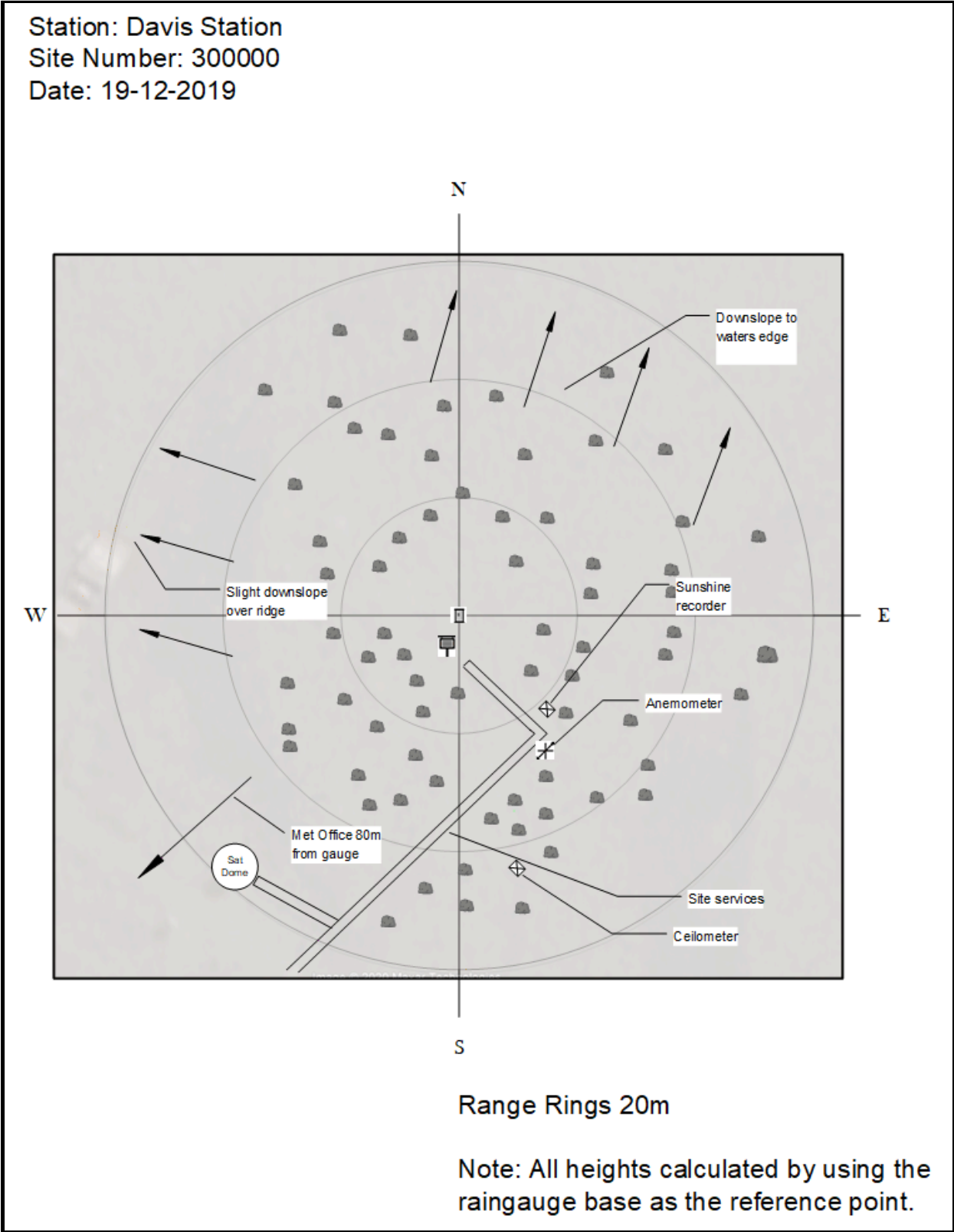
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Extended Climatological Station Metadata
All History

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Instrument Location and Surrounding Features
19/12/2019(most recent)



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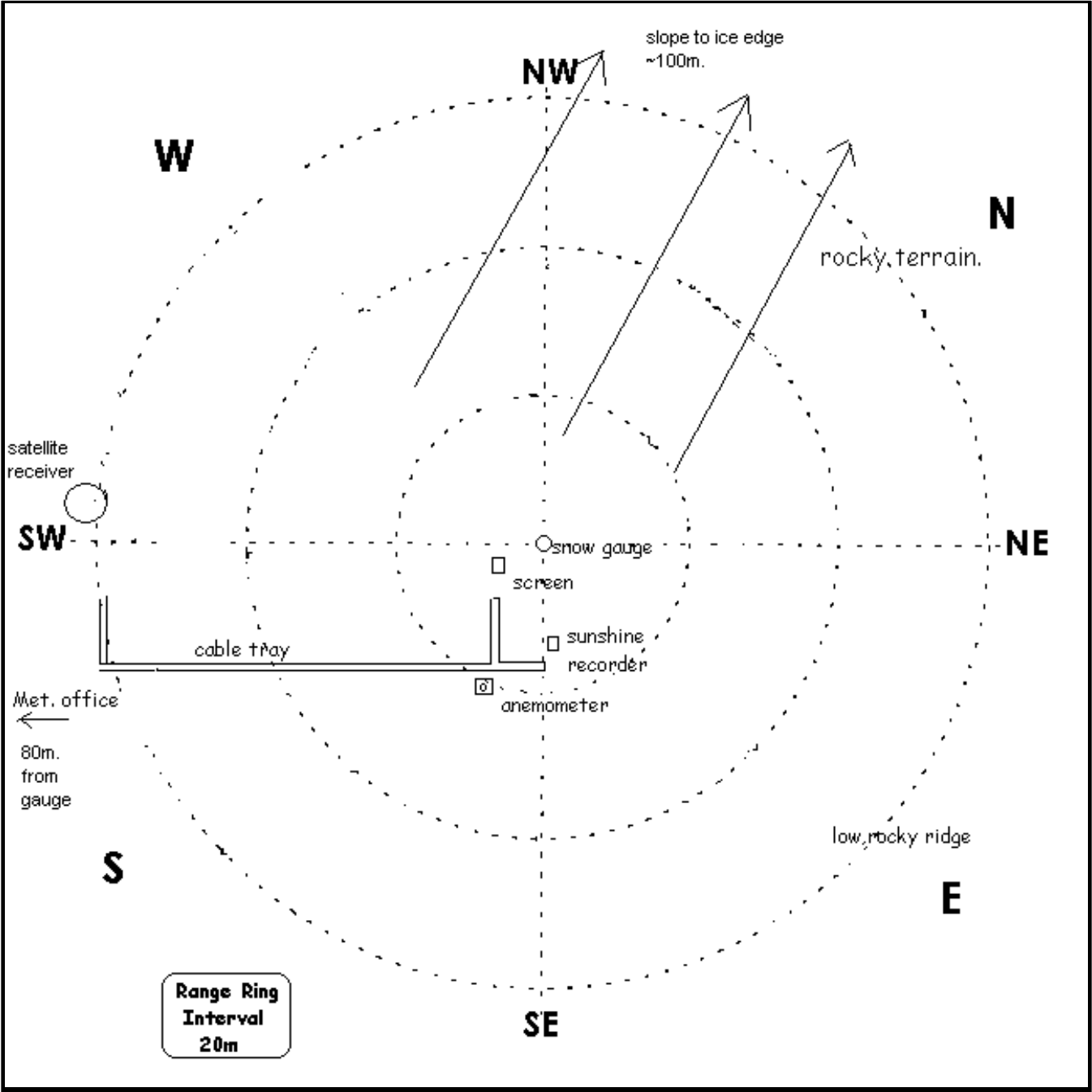
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Instrument Location and Surrounding Features
11/11/2013



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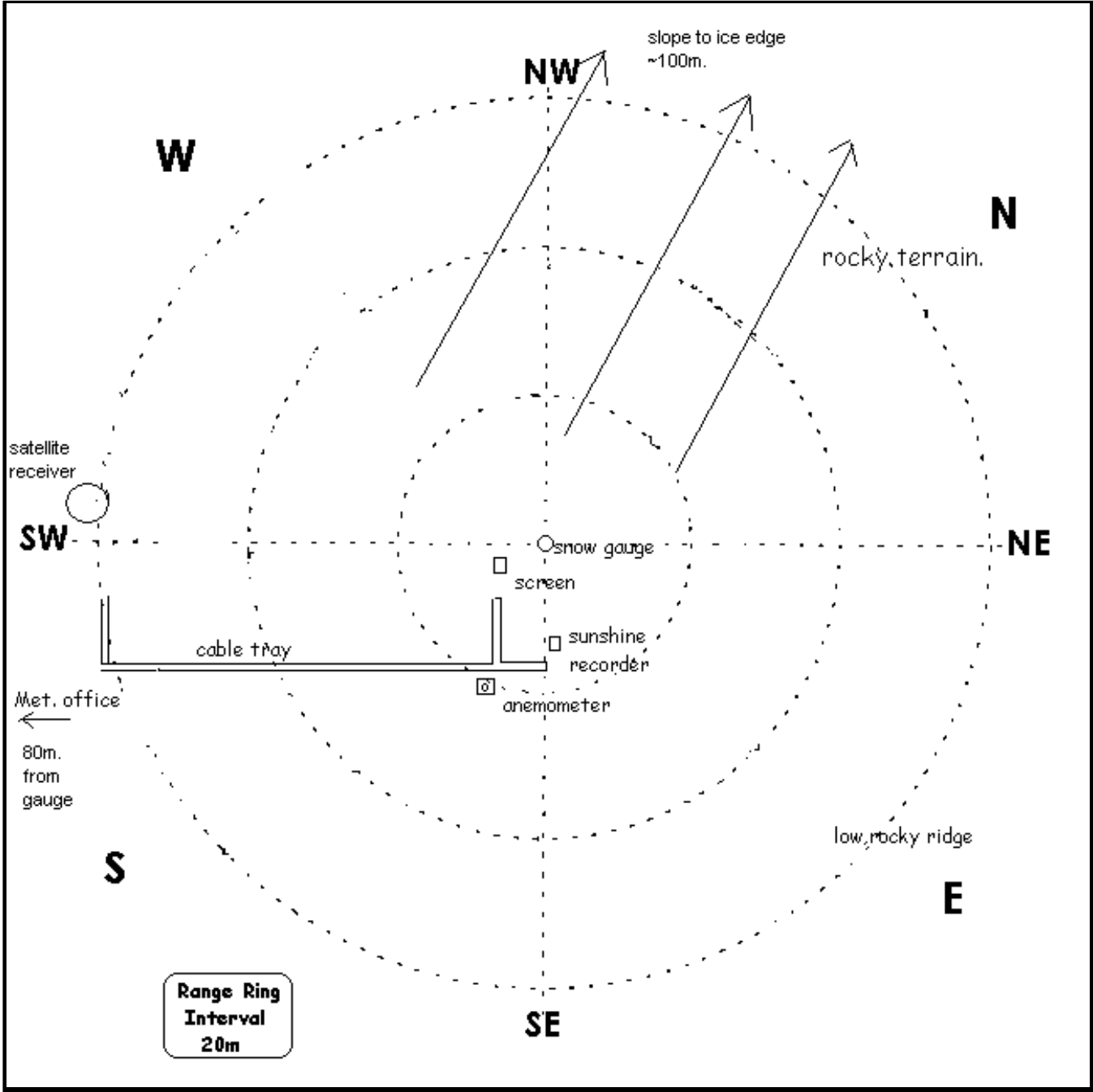
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Instrument Location and Surrounding Features
13/11/2011



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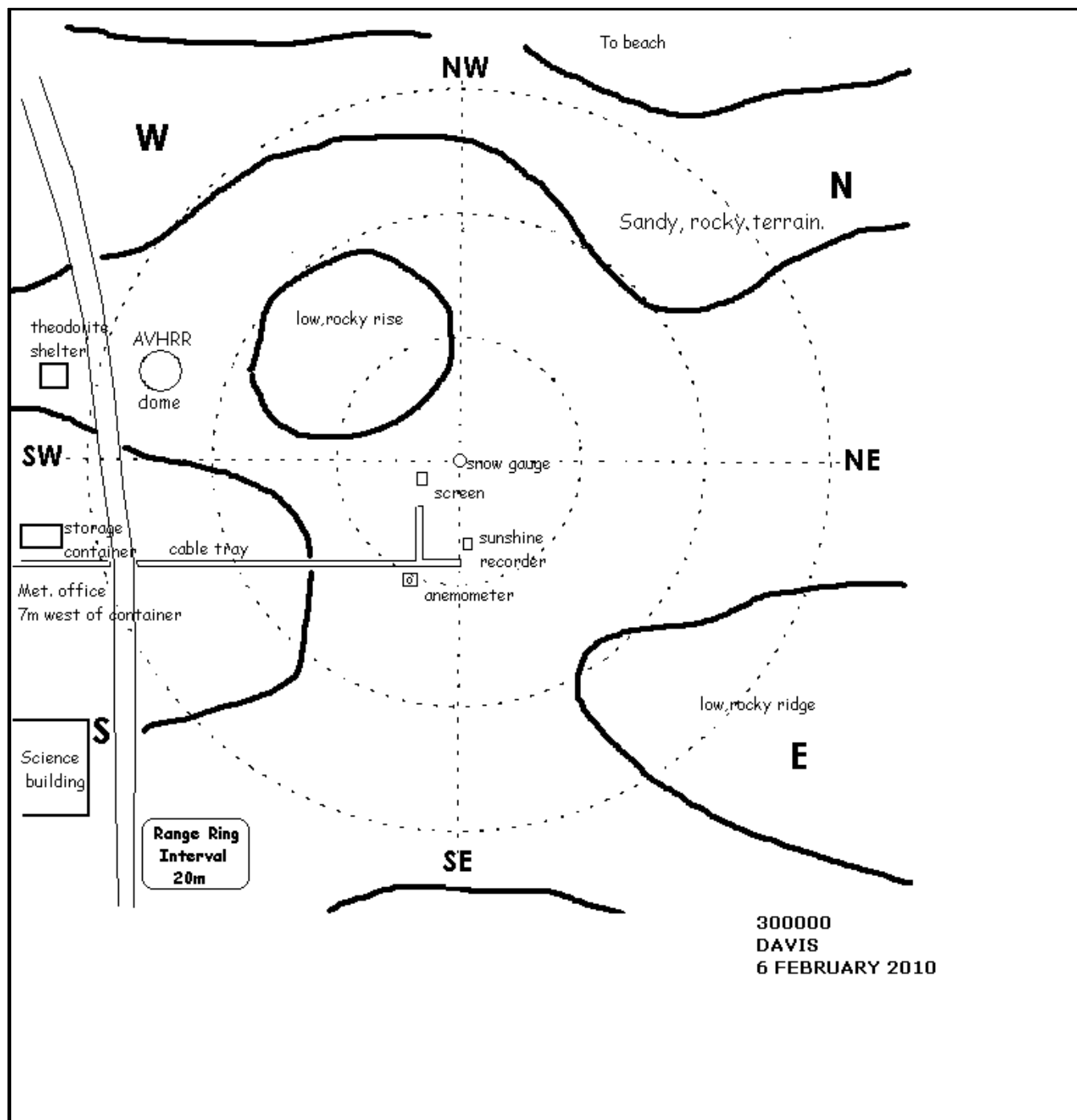
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

06/02/2010



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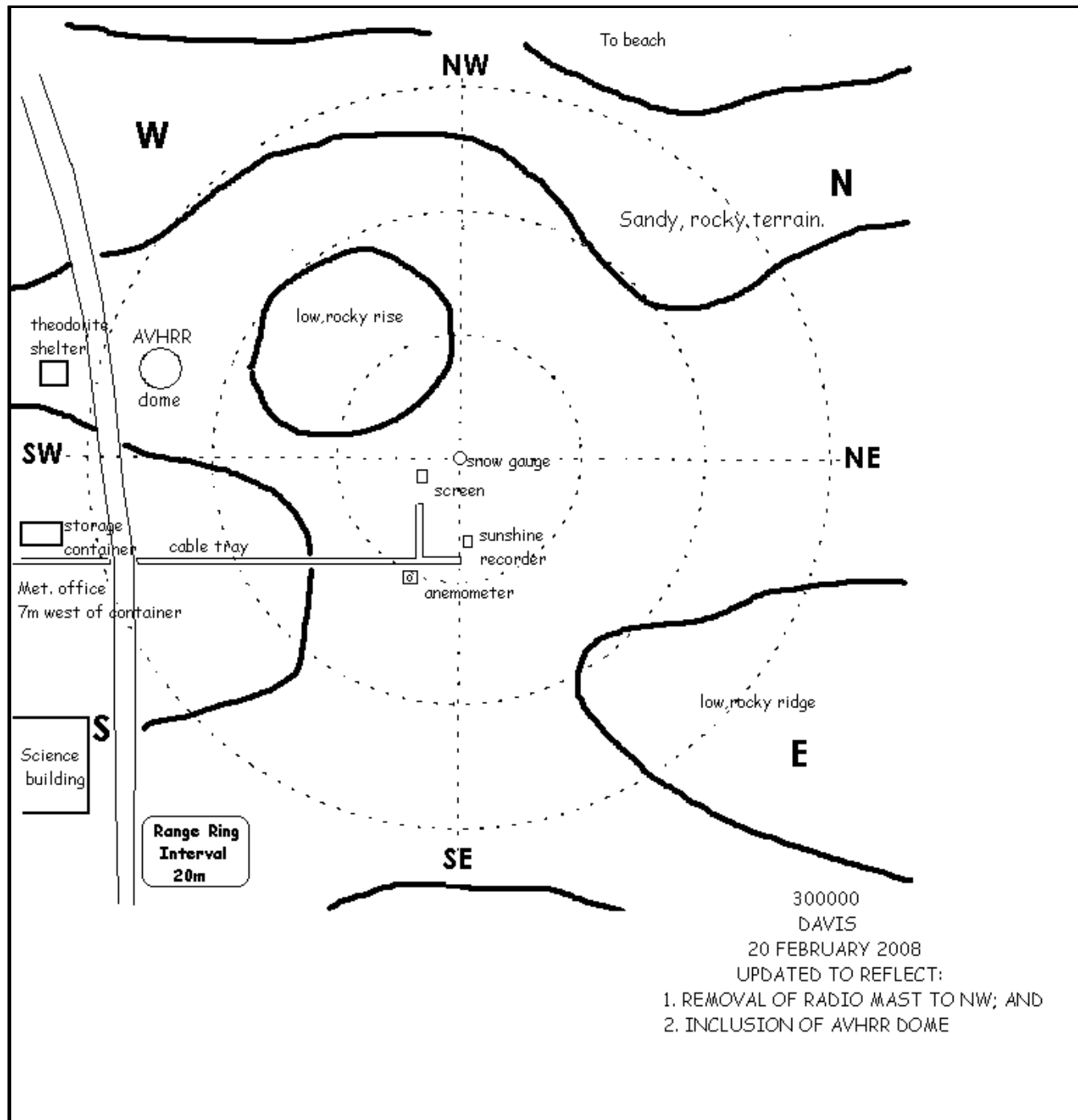
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Instrument Location and Surrounding Features

20/02/2008



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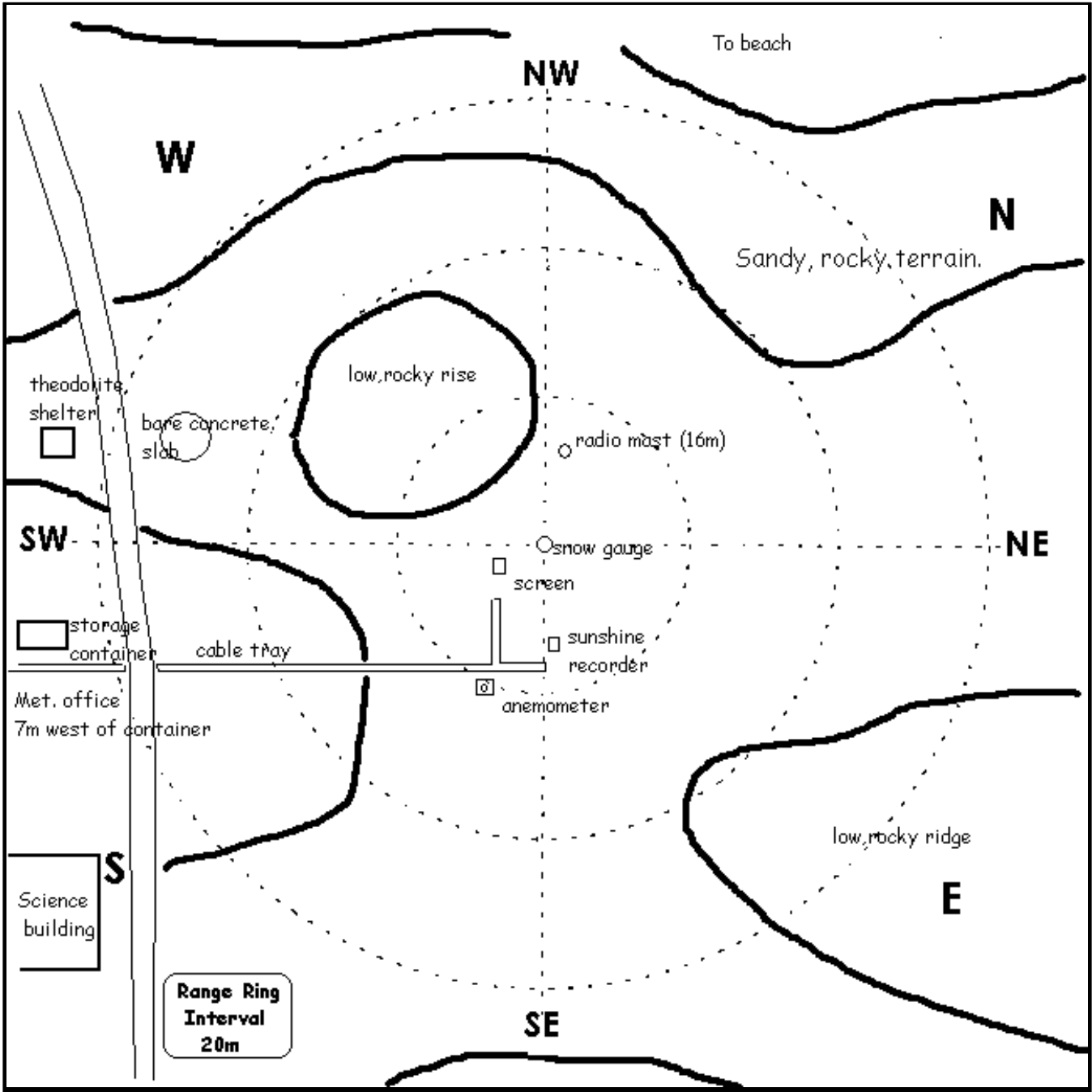
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Instrument Location and Surrounding Features
20/01/2005



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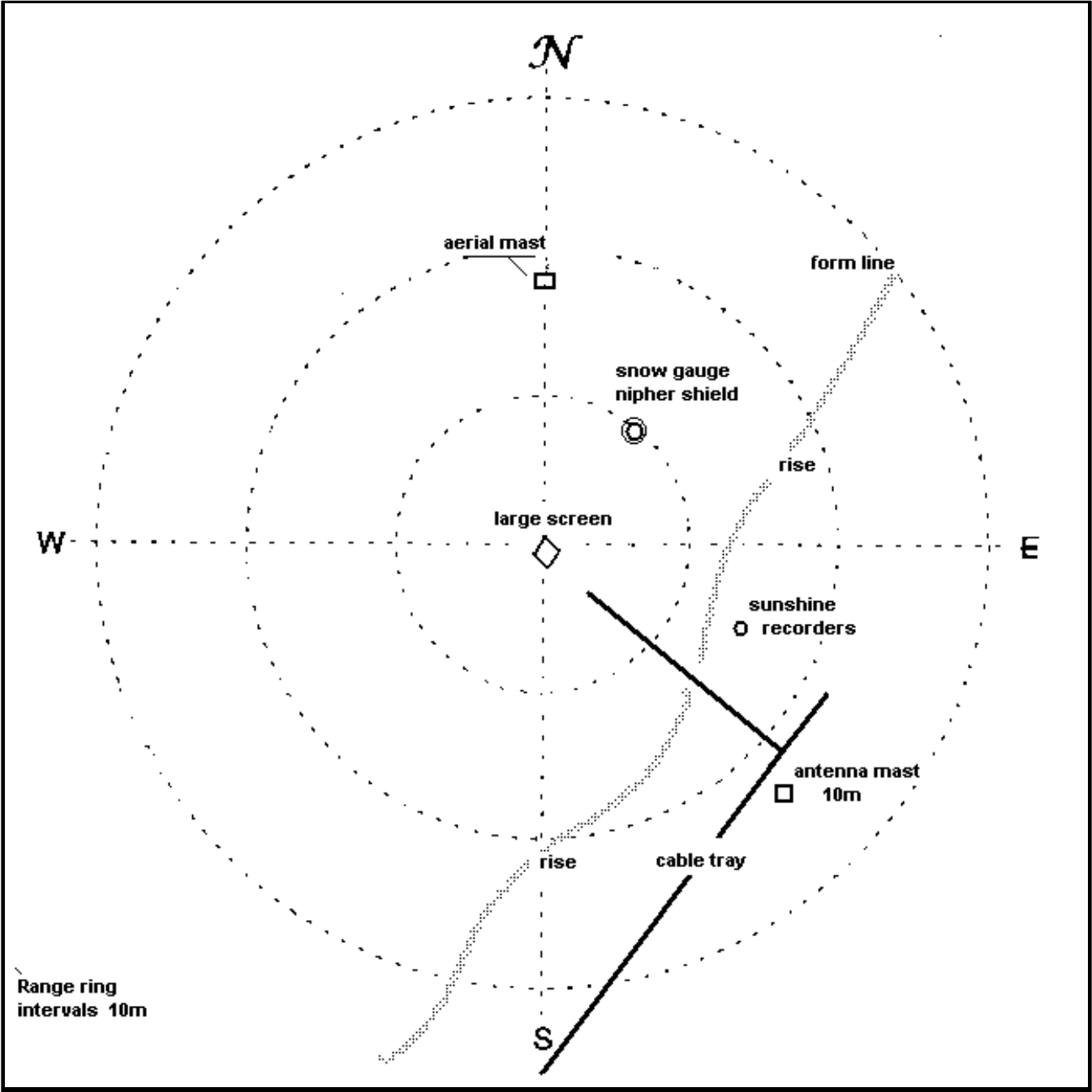
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Instrument Location and Surrounding Features
10/02/2002



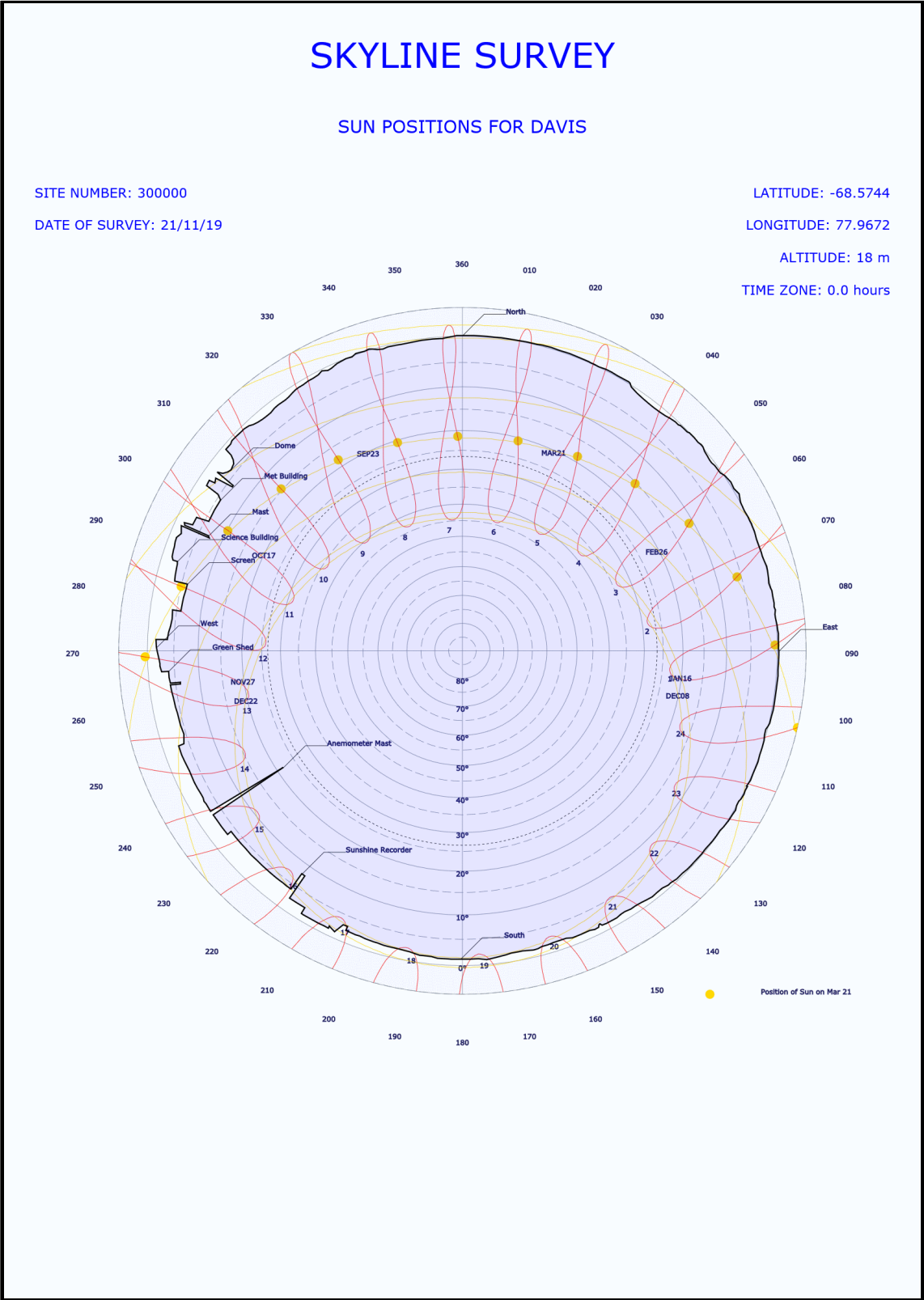
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Skyline Diagram
21/11/2019(most recent)



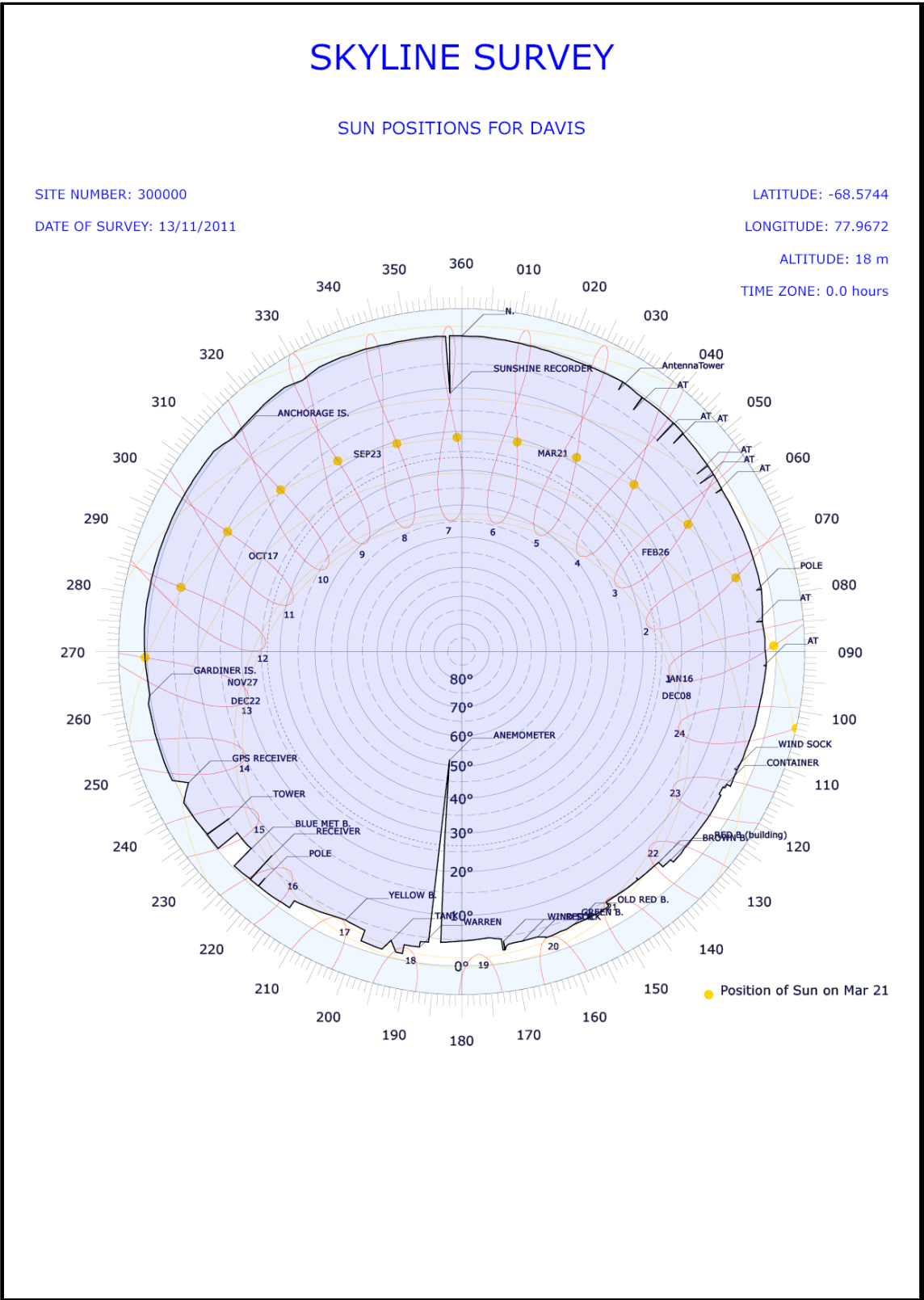
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Skyline Diagram
13/11/2011



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Skyline Diagram

05/02/2010

SKYLINE SURVEY

SUN POSITIONS FOR DAVIS

SITE NUMBER: 300000

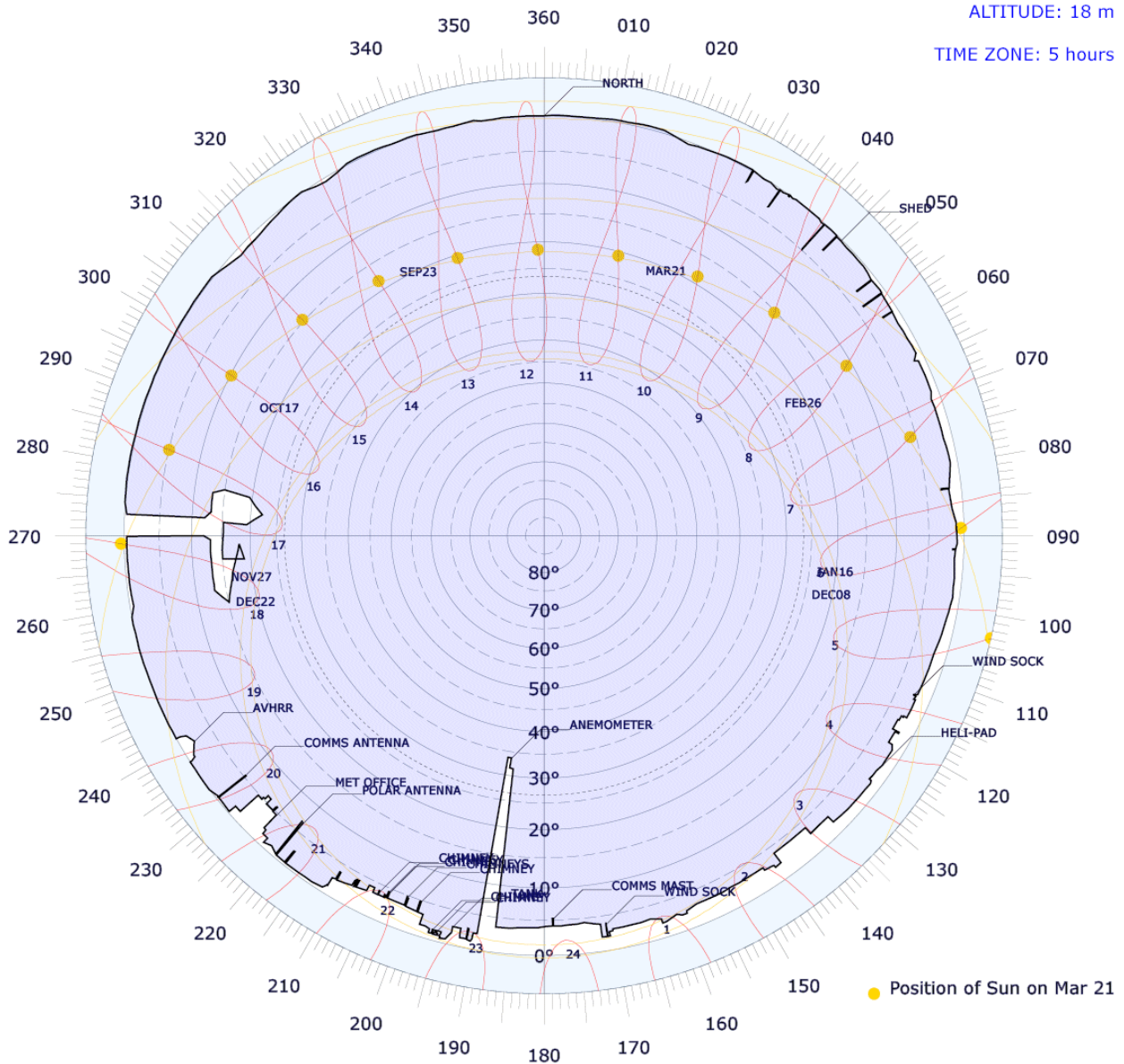
LATITUDE: -68.5744

DATE OF SURVEY: 05-02-2010

LONGITUDE: 077.9672

ALTITUDE: 18 m

TIME ZONE: 5 hours



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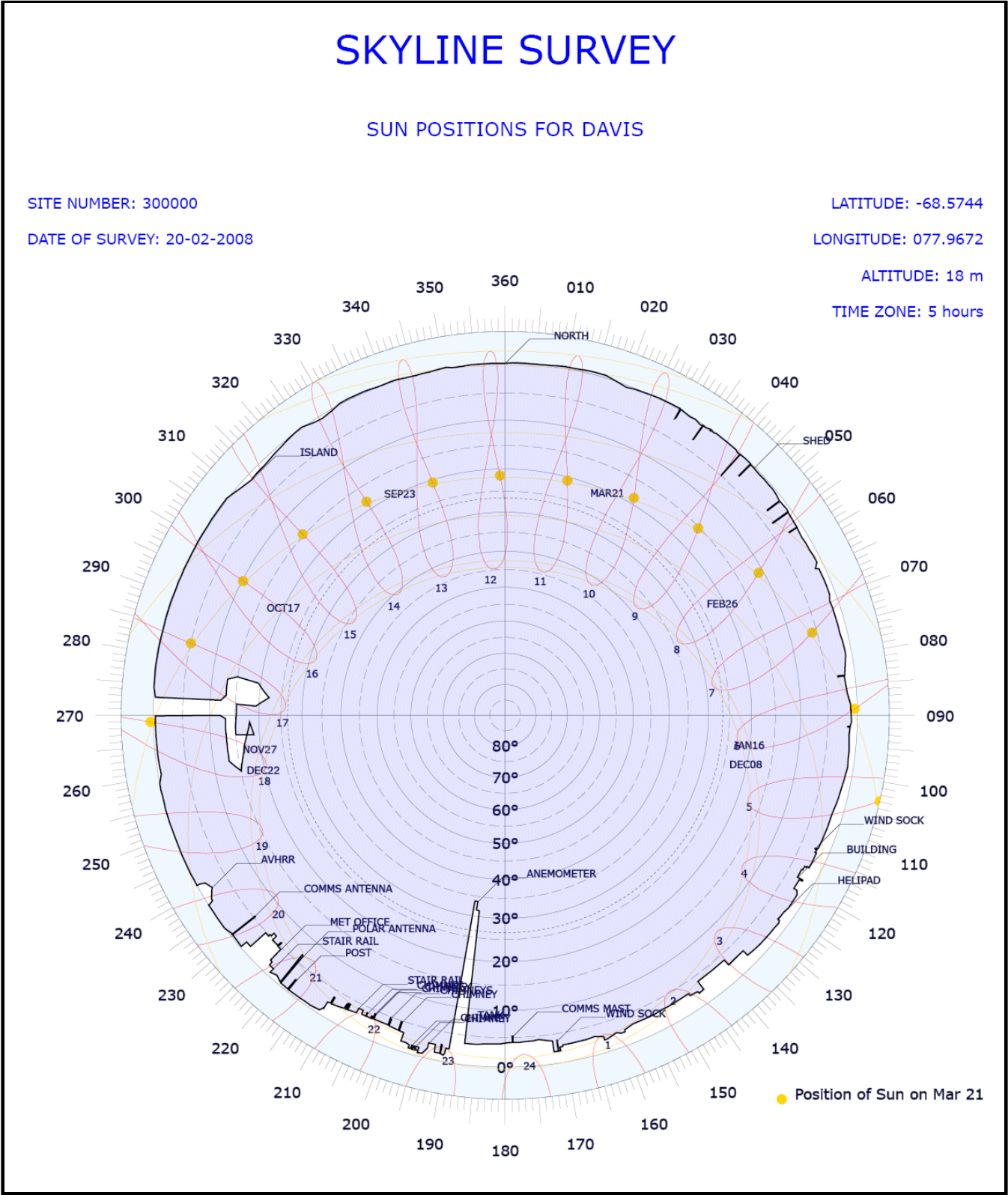
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Skyline Diagram
20/02/2008



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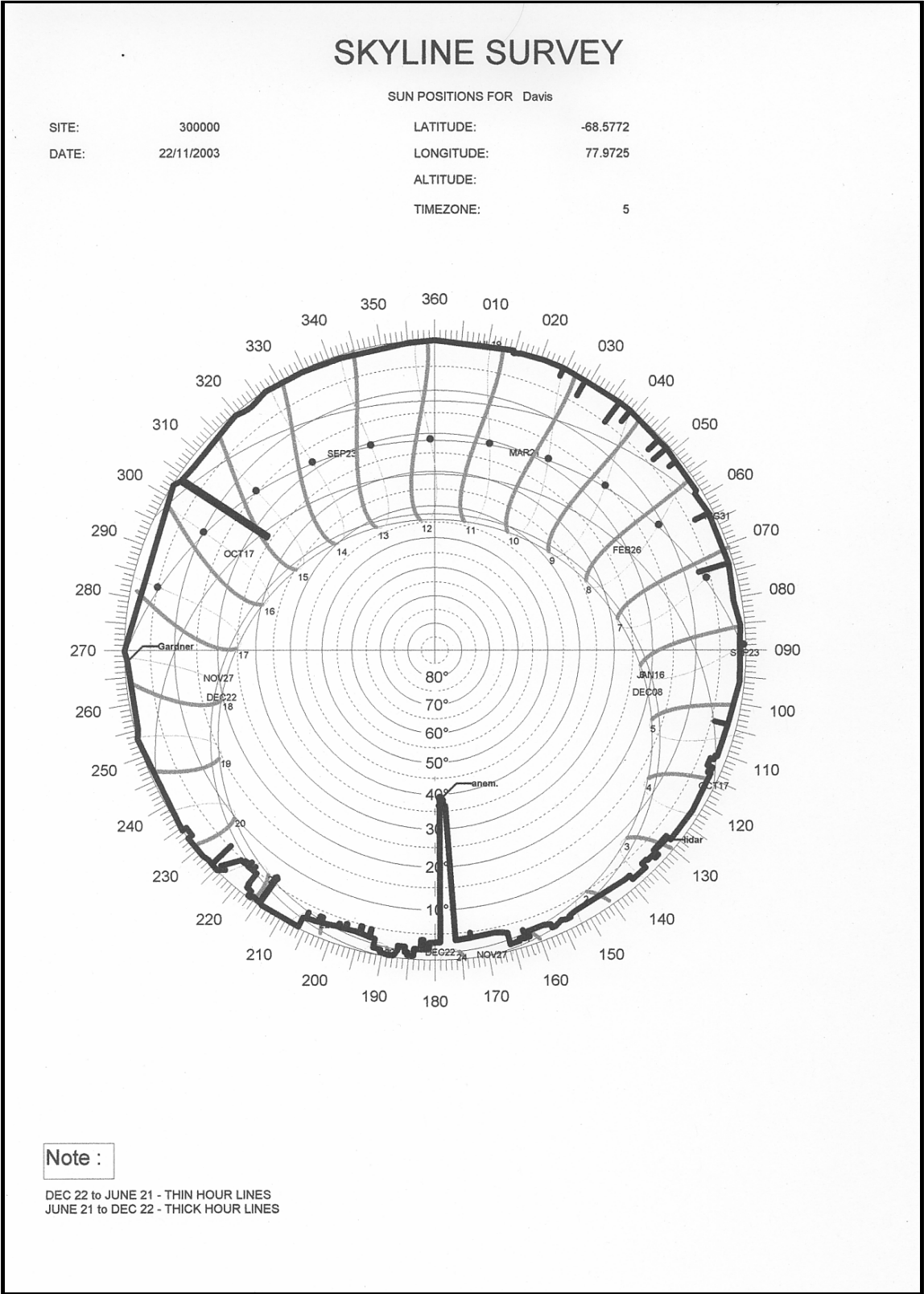
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Skyline Diagram
22/11/2003



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Station Observation Program Summary (Surface Observations) from 10/02/1957 to 27/10/2012

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 27/10/2012 to 03/12/2012

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) 28 JUL 2025 (most recent)

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	Y	Y	Y

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

Upper Air Routine 04/09/1997 to 05/01/2005

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

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Upper Air Routine 05/01/2005 to 08/12/2005

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

Upper Air Routine 08/12/2005 to 28/02/2006

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

Upper Air Routine 28/02/2006 to 20/11/2006

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

Upper Air Routine 20/11/2006 to 25/02/2008

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	-	-	-	-	-	-	-

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

All History

Station:	DAVIS			Location:	DAVIS			State:	ANT
Bureau No.:	300000	WMO No.:	89571	Aviation ID:	DAVI	Opened:	01 Jan 1957	Current Status:	Still open
Latitude:	-68.5744	Longitude:	77.9672	Elevation:	18 m	Barometer Elev:	23.2 m	Metadata compiled:	28 JUL 2025

Upper Air Routine 25/02/2008 to 09/12/2008

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

Upper Air Routine 09/12/2008 to 08/03/2009

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

Upper Air Routine 08/03/2009 to 19/11/2009

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

Upper Air Routine 19/11/2009 to 27/10/2012

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

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Wind	18:00							
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Extended Climatological Station Metadata

All History

Station: DAVIS			Location: DAVIS			State: ANT			
Bureau No.:	300000	WMO No.:	89571	Aviation ID:	DAVI	Opened:	01 Jan 1957	Current Status:	Still open
Latitude:	-68.5744	Longitude:	77.9672	Elevation:	18 m	Barometer Elev:	23.2 m	Metadata compiled:	28 JUL 2025

Upper Air Routine 27/10/2012 to 03/12/2012

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

Upper Air Routine 03/12/2012 (most recent)

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

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Extended Climatological Station Metadata

All History

Station:	DAVIS	Location:	DAVIS	State:	ANT
Bureau No.:	300000	WMO No.:	89571	Aviation ID:	DAVI
Latitude:	-68.5744	Longitude:	77.9672	Opened:	01 Jan 1957
		Elevation:	18 m	Barometer Elev:	23.2 m
				Current Status:	Still open
				Metadata compiled:	28 JUL 2025

Station Equipment History

Equipment Install/Remove

Cloud Height

29/DEC/2018 INSTALL Ceilometer (Type Vaisala CL31 S/N - P1930255) Surface Observations

Humidity

28/DEC/1999 INSTALL Humidity Probe (Type Rotronics S/N - 1674000/19) Surface Observations

26/DEC/2001 REPLACE Humidity Probe (Now Rotronics S/N - 17168001) Surface Observations

03/OCT/2007 REPLACE Humidity Probe (Now Rotronics S/N - 19522006) Surface Observations

20/JAN/2008 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - B4040010) Surface Observations

26/JUL/2011 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - D3040003) Surface Observations

22/SEP/2014 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - D3040003) Surface Observations

23/DEC/2009 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - D3040004) Surface Observations

24/APR/2014 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - D3040009) Surface Observations

12/DEC/2000 INSTALL Psychrometer (Type Whirling S/N - NONE) Surface Observations

23/JAN/2006 REMOVE Psychrometer (Type Whirling S/N - NONE) Surface Observations

Pressure Trend

27/OCT/1999 INSTALL Barograph (Type Marine S/N - 394) Surface Observations

01/MAR/1957 INSTALL Barograph (Type Weekly S/N - CBM54) Surface Observations

21/JUN/2000 REMOVE Barograph (Type Marine S/N - 394) Surface Observations

Lightning (No Electronic History)

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

01/FEB/1994 INSTALL Anemometer (Type Unknown S/N - Unknown) Surface Observations

02/JUL/2003 INSTALL Mast Anemometer (Type Unknown S/N - Unknown) Infrastructure

07/JUN/2012 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - WD:-WS:65780) Surface Observations

01/JUL/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - WS:72859/WD:72830) Surface Observations

31/JAN/2012 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - WS:74116/WD:74031) Surface Observations

17/JUN/2001 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - WS:76391/WD:76498) Surface Observations

Wet Bulb Temperature (No Electronic History)

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

01/MAY/1957 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - Unknown) Surface Observations

01/APR/2000 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 17215) Surface Observations

26/JUL/2001 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 19412) Surface Observations

05/APR/2005 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 19412) Surface Observations

14/MAR/2007 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 19415) Surface Observations

11/APR/2003 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 19420) Surface Observations

22/APR/2009 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 20647) Surface Observations

08/JUL/2016 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 20648) Surface Observations

29/DEC/1996 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 6334) Surface Observations

25/OCT/2004 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M2440) Surface Observations

18/JAN/2002 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M2451) Surface Observations

22/DEC/2000 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M2459) Surface Observations

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Extended Climatological Station Metadata
All History

Station: DAVIS			Location: DAVIS			State: ANT			
Bureau No.:	300000	WMO No.:	89571	Aviation ID:	DAVI	Opened:	01 Jan 1957	Current Status:	Still open
Latitude:	-68.5744	Longitude:	77.9672	Elevation:	18 m	Barometer Elev:	23.2 m	Metadata compiled:	28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

10/NOV/2001 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M2459) Surface Observations
14/APR/2009 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - M6279) Surface Observations
14/APR/2001 REPLACE Thermometer, Mercury, Max (Now Dobros S/N - 17215) Surface Observations
17/MAY/2001 REPLACE Thermometer, Mercury, Max (Now Dobros S/N - 17217) Surface Observations
15/APR/2013 REPLACE Thermometer, Mercury, Max (Now WIKA S/N - 23585) Surface Observations
19/JUL/2019 REPLACE Thermometer, Mercury, Max (Now WIKA S/N - 25870) Surface Observations
27/NOV/2019 REPLACE Thermometer, Mercury, Max (Now WIKA S/N - 25870) Surface Observations
10/SEP/2013 REPLACE Thermometer, Mercury, Max (Now WIKA S/N - 25873) Surface Observations
15/AUG/2019 REPLACE Thermometer, Mercury, Max (Now WIKA S/N - 25878) Surface Observations

Soil Temperature 10cm (No Electronic History)

Soil Temperature 20cm (No Electronic History)

Soil Temperature 50cm (No Electronic History)

Snow Height (No Electronic History)

Soil Temperature 100cm (No Electronic History)

Sunshine Hours

15/JAN/1993 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - 6586) Surface Observations
01/AUG/1959 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - 6593) Surface Observations

Wind Run (No Electronic History)

Minimum Temperature

01/MAY/1957 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - Unknown) Surface Observations
10/NOV/2001 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 12799) Surface Observations
22/APR/2003 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 19401) Surface Observations
14/JUN/2006 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 19404) Surface Observations
01/APR/2000 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 19407) Surface Observations
15/APR/2001 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 19407) Surface Observations
24/MAY/2001 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 19408) Surface Observations
07/DEC/2001 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 22170) Surface Observations
25/OCT/2004 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 23275) Surface Observations
22/DEC/2000 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - M6170) Surface Observations
04/JUN/2005 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - M6340) Surface Observations
03/AUG/2012 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - M6340) Surface Observations
06/NOV/2020 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - M6341) Surface Observations

Terrestrial Minimum Temperature (No Electronic History)

Visibility (No Electronic History)

Soil Temperature 5cm (No Electronic History)

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Oxygen Content

19/MAR/2001 INSTALL Gas Analyser (Type Teledyne 311P S/N - 00-0856) Upper Air
23/FEB/2011 REMOVE Gas Analyser (Type Teledyne 311P S/N - 00-0855) Upper Air
16/NOV/2008 REPLACE Gas Analyser (Now Teledyne 311P S/N - 00-0855) Upper Air

RF Reflectivity

01/JAN/1993 INSTALL Radar (Type WF2 S/N - Unknown) Upper Air

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Extended Climatological Station Metadata

All History

Station:	DAVIS	Location:	DAVIS	State:	ANT
Bureau No.:	300000	WMO No.:	89571	Aviation ID:	DAVI
Latitude:	-68.5744	Longitude:	77.9672	Opened:	01 Jan 1957
		Elevation:	18 m	Current Status:	Still open
		Barometer Elev:	23.2 m	Metadata compiled:	28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

29/SEP/1997 REMOVE Radar (Type WF2 S/N - Unknown) Upper Air

Total Column Ozone Amount (No Electronic History)

Pressure

01/APR/1957 INSTALL Barometer (Type Kew pattern mercury S/N - Unknown) Surface Observations
10/FEB/2002 INSTALL Barometer (Type Negretti and Zambra Mk I S/N - CBM051) Surface Observations
07/NOV/2005 INSTALL Barometer (Type Negretti and Zambra Mk I S/N - CBM104) Surface Observations
14/NOV/1989 INSTALL Barometer (Type Negretti and Zambra Mk II S/N - CBM112) Surface Observations
01/AUG/1985 INSTALL Barometer (Type Negretti and Zambra Mk II S/N - CBM145) Surface Observations
05/SEP/1996 INSTALL Barometer (Type Negretti and Zambra Mk II S/N - CBM161) Surface Observations
01/NOV/1999 INSTALL Barometer (Type Negretti and Zambra Mk II S/N - CBM194) Surface Observations
10/OCT/1995 INSTALL Barometer (Type Negretti and Zambra Mk II S/N - CBM196) Surface Observations
10/FEB/2003 INSTALL Barometer (Type Negretti and Zambra Mk II S/N - CBM240) Surface Observations
05/JAN/2020 INSTALL Barometer (Type Other S/N - N4810279) Surface Observations
01/OCT/1994 INSTALL Barometer (Type Vaisala PA11A S/N - 661857) Surface Observations
20/FEB/2008 INSTALL ROBTS: Reg Obs Barometer Tfr Std (Type BoM S/N - 049) Reference Standards
03/OCT/2019 INSTALL ROBTS: Reg Obs Barometer Tfr Std (Type BoM S/N - 21) Reference Standards
05/DEC/2016 INSTALL ROBTS: Reg Obs Barometer Tfr Std (Type BoM S/N - 51) Reference Standards
25/SEP/2015 INSTALL ROBTS: Reg Obs Barometer Tfr Std (Type BoM S/N - ROBTS058) Reference Standards
01/MAR/1994 REMOVE Barometer (Type Kew pattern mercury S/N - Unknown) Surface Observations
20/FEB/2008 REMOVE Barometer (Type Negretti and Zambra Mk I S/N - CBM008) Surface Observations
10/FEB/2003 REMOVE Barometer (Type Negretti and Zambra Mk I S/N - CBM051) Surface Observations
15/FEB/2006 REMOVE Barometer (Type Negretti and Zambra Mk II S/N - CBM052) Surface Observations
10/OCT/1995 REMOVE Barometer (Type Negretti and Zambra Mk II S/N - CBM112) Surface Observations
14/NOV/1989 REMOVE Barometer (Type Negretti and Zambra Mk II S/N - CBM145) Surface Observations
31/OCT/1998 REMOVE Barometer (Type Negretti and Zambra Mk II S/N - CBM161) Surface Observations
05/SEP/2000 REMOVE Barometer (Type Negretti and Zambra Mk II S/N - CBM194) Surface Observations
29/DEC/1996 REMOVE Barometer (Type Negretti and Zambra Mk II S/N - CBM196) Surface Observations
12/NOV/2019 REMOVE ROBTS: Reg Obs Barometer Tfr Std (Type BoM S/N - 16) Reference Standards
05/DEC/2016 REMOVE ROBTS: Reg Obs Barometer Tfr Std (Type BoM S/N - ROBTS058) Reference Standards
01/DEC/2015 REMOVE ROBTS: Reg Obs Barometer Tfr Std (Type BoM S/N - ROBTS50) Reference Standards
06/MAR/2007 REPLACE Barometer (Now Negretti and Zambra Mk I S/N - CBM008) Surface Observations
21/JAN/2005 REPLACE Barometer (Now Negretti and Zambra Mk II S/N - CBM052) Surface Observations
05/APR/2007 REPLACE Barometer (Now Vaisala PTB220B S/N - B0250019) Surface Observations
11/NOV/2013 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - 049) Reference Standards
19/MAR/2017 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - 052) Reference Standards
30/NOV/2018 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - 16) Reference Standards
12/DEC/2017 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - 20) Reference Standards
29/MAR/2012 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - ROBTS058) Reference Standards
08/NOV/2014 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - ROBTS50) Reference Standards

Evaporation (No Electronic History)

Rainfall

01/JAN/1960 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations
01/FEB/1994 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations

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Extended Climatological Station Metadata

All History

Station:	DAVIS	Location:	DAVIS	State:	ANT
Bureau No.:	300000	WMO No.:	89571	Aviation ID:	DAVI
Latitude:	-68.5744	Longitude:	77.9672	Opened:	01 Jan 1957
		Elevation:	18 m	Current Status:	Still open
		Barometer Elev:	23.2 m	Metadata compiled:	28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

10/FEB/2002 INSTALL Snow Gauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations

River Height (No Electronic History)

Solar Radiation (No Electronic History)

Solar Radiation (Direct) (No Electronic History)

Turbidity (No Electronic History)

Sea Water Level (No Electronic History)

Sea Water Temperature (No Electronic History)

Wind Speed

01/FEB/1994 INSTALL Anemometer (Type Unknown S/N - Unknown) Surface Observations

02/JUL/2003 INSTALL Mast Anemometer (Type Unknown S/N - Unknown) Infrastructure

07/JUN/2012 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - WD:-WS:65780) Surface Observations

01/JUL/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - WS:72859/WD:72830) Surface Observations

31/JAN/2012 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - WS:74116/WD:74031) Surface Observations

17/JUN/2001 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - WS:76391/WD:76498) Surface Observations

Air Temperature

28/DEC/1999 INSTALL Humidity Probe (Type Rotronics S/N - 1674000/19) Surface Observations

26/DEC/2001 REPLACE Humidity Probe (Now Rotronics S/N - 17168001) Surface Observations

03/OCT/2007 REPLACE Humidity Probe (Now Rotronics S/N - 19522006) Surface Observations

20/JAN/2008 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - B4040010) Surface Observations

26/JUL/2011 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - D3040003) Surface Observations

22/SEP/2014 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - D3040003) Surface Observations

23/DEC/2009 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - D3040004) Surface Observations

24/APR/2014 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - D3040009) Surface Observations

01/FEB/1994 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - Unknown) Surface Observations

04/OCT/2012 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - 0371) Surface Observations

06/AUG/2011 REPLACE Temperature Probe - Dry Bulb (Now Rosemount S/N - 0648) Surface Observations

18/NOV/2001 REPLACE Temperature Probe - Dry Bulb (Now Temp Control TCBMP01 S/N - 10066) Surface Observations

11/JUN/2013 REPLACE Temperature Probe - Dry Bulb (Now Temp Control TCBMP01 S/N - 10066) Surface Observations

01/MAY/1957 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 2342) Surface Observations

20/NOV/2008 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 14282) Surface Observations

30/JUN/2012 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 17544) Surface Observations

14/DEC/2000 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 17548) Surface Observations

Surface Inclination (No Electronic History)

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All History

Station:	DAVIS	Location:	DAVIS	State:	ANT
Bureau No.:	300000	WMO No.:	89571	Aviation ID:	DAVI
Latitude:	-68.5744	Longitude:	77.9672	Opened:	01 Jan 1957
		Elevation:	18 m	Barometer Elev:	23.2 m
				Current Status:	Still open
				Metadata compiled:	28 JUL 2025

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
28/DEC/1999 - 11/MAR/2021	Humidity	12
20/FEB/2008 - 02/APR/2015	Pressure Trend	0
28/DEC/1999 - 03/DEC/2020	Wind Direction	6
28/DEC/1999 - 12/NOV/2011	Maximum Temperature	0
28/DEC/1999 - 12/NOV/2011	Minimum Temperature	0
26/NOV/2007 - 22/JAN/2011	Oxygen Content	1
28/DEC/1999 - 11/MAR/2021	Pressure	2
10/FEB/2002 - 02/APR/2015	Rainfall	1
28/DEC/1999 - 03/DEC/2020	Wind Speed	6
28/DEC/1999 - 11/MAR/2021	Air Temperature	13

Station Detail Changes

01/FEB/2021	CLASSIFICATION AWS Priority 3 - Standard (SLP3-AWS)
30/JUL/2013	CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT)
01/FEB/1994	CLASSIFICATION Building (FBL)
26/JUN/2002	CLASSIFICATION CLIMAT Stations (CLC)
26/JUN/2002	CLASSIFICATION CLIMAT TEMP Stations (CLT)
26/OCT/2022	CLASSIFICATION Cold Climate Site (COLD)
10/JAN/2011	CLASSIFICATION Critical (ASOSCRIT)
01/MAY/1997	CLASSIFICATION GCOS Surface Network (GSN)
14/FEB/1997	CLASSIFICATION GCOS Upper Air Network (GUAN)
28/MAY/2021	CLASSIFICATION Mastered in EAMS (EAMS)
21/MAR/2016	CLASSIFICATION NOT Processed by ASOS (NPBA)
01/JUL/1998	CLASSIFICATION Observations Only (MO)
01/JUL/2017	CLASSIFICATION Observing Operations Hub - Hobart (OOH-H)
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)
22/NOV/2003	OBJECT Document/300000031122rmks
20/FEB/2008	OBJECT Document/300000080220_avhrr
06/FEB/2010	OBJECT Document/300000100206avhrr
06/JUL/2012	OBJECT Document/300000_DAVI_Almos_AWS_6B-15_06Jul2012
12/AUG/2009	OBJECT Document/Davis-AWS-Setup-090812
04/APR/2009	OBJECT Document/Davis_metconsole_config_090401
15/MAR/2000	OBJECT Document/F611 dav0003
31/JUL/2000	OBJECT Document/F611 dav0007
30/NOV/2000	OBJECT Document/F611 dav0011
23/MAR/2001	OBJECT Document/F611 dav0103

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Extended Climatological Station Metadata
All History

Station:	DAVIS		Location:	DAVIS		State:	ANT
Bureau No.:	300000	WMO No.:	89571	Aviation ID:	DAVI	Opened:	01 Jan 1957
Latitude:	-68.5744	Longitude:	77.9672	Elevation:	18 m	Barometer Elev:	23.2 m
						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

31/DEC/2001 OBJECT Document/F611 dav0112
03/JUL/2002 OBJECT Document/F611 dav0207
20/JAN/2003 OBJECT Document/F611 dav0301
16/JAN/2003 OBJECT Document/F611 dav0301
20/JAN/2003 OBJECT Document/F611 dav0301a
03/MAY/2003 OBJECT Document/F611 dav0304
14/JUL/2003 OBJECT Document/F611 dav0307
30/SEP/2003 OBJECT Document/F611 dav0309
30/DEC/2003 OBJECT Document/F611 dav0312
11/MAR/2004 OBJECT Document/F611 dav0403
10/SEP/2004 OBJECT Document/F611 dav0406
05/OCT/2004 OBJECT Document/F611 dav0409
27/FEB/2005 OBJECT Document/F611 dav0502
27/SEP/2005 OBJECT Document/F611 dav0509
31/DEC/2005 OBJECT Document/F611 dav0512
26/JUN/2006 OBJECT Document/F611 dav0606
23/FEB/2007 OBJECT Document/F611 dav0702
26/SEP/2007 OBJECT Document/F611 dav0709
01/JAN/2008 OBJECT Document/F611 dav0801
01/MAR/2008 OBJECT Document/F611 dav0803
01/JUN/2008 OBJECT Document/F611 dav0806
01/SEP/2008 OBJECT Document/F611 dav0809
17/JUN/2009 OBJECT Document/F611 dav0906
30/SEP/2009 OBJECT Document/F611 dav0909
16/JAN/2013 OBJECT Document/F611 dav1302
01/JAN/1996 OBJECT Document/F611 dav9601
20/FEB/1997 OBJECT Document/F611 dav9702
29/JAN/1998 OBJECT Document/F611 dav9801
31/JUL/1999 OBJECT Document/F611 dav9907
29/OCT/1999 OBJECT Document/F611 dav9910
25/MAR/2009 OBJECT Document/F611_DAV0903
04/JAN/2010 OBJECT Document/F611_dav1001
09/APR/2010 OBJECT Document/F611_dav1004
03/JUL/2010 OBJECT Document/F611_dav1007
08/OCT/2010 OBJECT Document/F611_dav1010
11/NOV/2011 OBJECT Document/F611_dav1111
11/JAN/2012 OBJECT Document/F611_dav1201
14/MAR/2012 OBJECT Document/F611_dav1204
20/JUN/2012 OBJECT Document/F611_dav1207
04/JAN/2012 OBJECT Document/F611_dav1210
02/APR/2014 OBJECT Document/F611_dav1404
12/DEC/2011 OBJECT Document/PV1095_09_2011
16/OCT/2012 OBJECT Document/PV1095_09_2012

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Extended Climatological Station Metadata
All History

Station: DAVIS			Location: DAVIS			State: ANT			
Bureau No.:	300000	WMO No.:	89571	Aviation ID:	DAVI	Opened:	01 Jan 1957	Current Status:	Still open
Latitude:	-68.5744	Longitude:	77.9672	Elevation:	18 m	Barometer Elev:	23.2 m	Metadata compiled:	28 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

19/NOV/2013 OBJECT Document/PV1095_09_2013
12/DEC/2011 OBJECT Document/PV1095_10_2011
16/OCT/2012 OBJECT Document/PV1095_10_2012
19/NOV/2013 OBJECT Document/PV1095_10_2013
12/DEC/2011 OBJECT Document/PV1095_11_2011
16/OCT/2012 OBJECT Document/PV1095_11_2012
19/NOV/2013 OBJECT Document/PV1095_11_2013
12/DEC/2011 OBJECT Document/PV1095_12_2011
16/OCT/2012 OBJECT Document/PV1095_12_2012
19/NOV/2013 OBJECT Document/PV1095_12_2013
21/NOV/2019 OBJECT Document/SKYLINE DATA
20/FEB/2008 OBJECT Document/SKYLINE DATA
05/FEB/2010 OBJECT Document/SKYLINE DATA
29/DEC/2006 OBJECT Document/SKYLINE DATA - RADAR
21/NOV/2019 OBJECT Document/WMO SITING CLASSIFICATION
01/JAN/2001 OBJECT Document/dav_lyser_01rpt
01/JAN/2002 OBJECT Document/dav_lyser_02rpt
01/JAN/2003 OBJECT Document/dav_lyser_03rpt
01/JAN/1998 OBJECT Document/dav_lyser_98rpt
19/JUN/2001 OBJECT Document/metcon_config_davi0106
01/APR/2009 OBJECT Document/station_fil_090401
01/JAN/1957 STATION - (nondb seeding) Opened
01/JAN/1957 STATION - (nondb seeding) name Changed to DAVIS
01/JAN/1957 STATION - (nondb seeding) stn_ht Changed to 16
01/JAN/1957 STATION - (nondb seeding) stn_ht_deriv Changed to MAP 1:250 000
01/JAN/1957 STATION - (nondb seeding) wmo_num Changed to 89571
31/OCT/1997 STATION aviation_id Changed to DAVI
01/JAN/1957 STATION bar_ht Changed to 13.0
01/FEB/1994 STATION bar_ht Changed to 23.2
01/JAN/1957 STATION bar_ht_deriv Changed to MAP 1:250 000
01/FEB/1994 STATION bar_ht_deriv Changed to SURVEY
01/JAN/1957 STATION latitude Changed to -68.5744Seeded from NonDb. Using snowgauge as reference point, and WGS84
01/JAN/1957 STATION latlon_deriv Changed to GPS
01/JAN/1957 STATION longitude Changed to 77.9672Seeded from NonDb. Using snowgauge as reference point, and WGS84
28/DEC/1999 STATION lu_0_100m Changed to Non-vegetated (barren,desert)
28/DEC/1999 STATION lu_100m_1km Changed to Non-vegetated (barren,desert)
28/DEC/1999 STATION lu_1km_10km Changed to Non-vegetated (barren,desert)
28/DEC/1999 STATION soil_type Changed to rock
01/FEB/1994 STATION stn_ht Changed to 18
01/FEB/1994 STATION stn_ht_deriv Changed to SURVEY
28/DEC/1999 STATION surface_type Changed to rock

System Changes

01/JAN/1957 SYSTEM Infrastructure Commenced

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Extended Climatological Station Metadata
All History

Station: DAVIS			Location: DAVIS			State: ANT			
Bureau No.:	300000	WMO No.:	89571	Aviation ID:	DAVI	Opened:	01 Jan 1957	Current Status:	Still open
Latitude:	-68.5744	Longitude:	77.9672	Elevation:	18 m	Barometer Elev:	23.2 m	Metadata compiled:	28 JUL 2025

Station Equipment History (continued)

System Changes(Continued)

20/FEB/2008 SYSTEM Reference Standards Commenced
18/JAN/2007 SYSTEM Satellite Commenced
18/FEB/2021 SYSTEM Space Observations Commenced
10/FEB/1957 SYSTEM Surface Observations Commenced
01/JAN/1957 SYSTEM Upper Air 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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