



Basic Climatological Station Metadata
Current status

Metadata compiled: 28 JUL 2025

Station: CASEY

Bureau of Meteorology station number: 300017

Bureau of Meteorology district name:

State: ANT

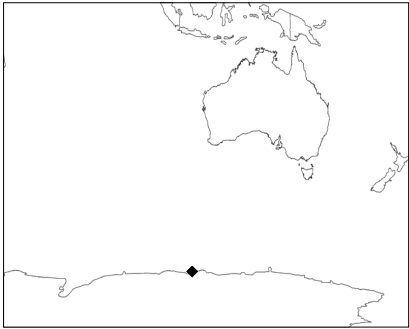
World Meteorological Organization number: 89611

Identification: CASE

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

Station purpose: Synoptic, Upper Air

Automatic Weather Station: Almos



Current Station Location				
Latitude	Decimal	-66.2825	Hour Min Sec	66°16'57"S
Longitude	Decimal	110.5231	Hour Min Sec	110°31'23"E
Station Height	40 m	Barometer Height	42.3 m	
Method of station geographic positioning			GPS	

Year opened: 1989

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.

Prepared by the Bureau of Meteorology.

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Basic Climatological Station Metadata
Current status

Station: CASEY			Location: CASEY			State: ANT			
Bureau No.:	300017	WMO No.:	89611	Aviation ID:	CASE	Opened:	01 Feb 1989	Current Status:	Still open
Latitude:	-66.2825	Longitude:	110.5231	Elevation:	40 m	Barometer Elev:	42.3 m	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
MAXIMUM AIR TEMPERATURE	JAN 1989	JUN 2025	99.9	12	0
MAXIMUM WIND GUST SPEED	JAN 1989	JUN 2025	99.5	66	0
SUNSHINE HOURS	FEB 1989	JUN 2025	89.8	230	37
WIND RUN ABOVE 10 FEET	JAN 1989	JUN 2025	98.3	220	0
RAINFALL	JAN 1989	JUL 2025	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 1989	JUN 2025	99.7	10.0	0	0
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0	2 0 0 0	0 0 0 0	0 0 0 0
DEW POINT	JAN 1989	JUN 2025	99.7	10.0	0	0
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0	2 0 0 0	0 0 0 0	0 0 0 0
MEAN SEA LEVEL PRESSURE	JAN 1989	JUN 2025	99.7	10.0	0	0
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0	2 0 0 0	0 0 0 0	0 0 0 0
TOTAL CLOUD AMOUNT	JAN 1989	JUN 2025	94.7	6.2	102	0
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0	2 0 0 0	0 0 0 0	0 0 0 0
WIND SPEED	JAN 1989	JUN 2025	99.7	10.0	0	0
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0	2 0 0 0	0 0 0 0	0 0 0 0
UPPER AIR TEMPERATURE	FEB 1959	JUN 2025	87.6	1.8	1068	7
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0	2 0 0 0	0 0 0 0	0 0 0 0
UPPER AIR WIND SPEED	FEB 1959	JUN 2025	82.6	2.0	874	57
1 8 5 0	1 9 0 0	1 9 5 0	1 9 5 0	2 0 0 0	0 0 0 0	0 0 0 0

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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	99.2	1427.8	N/A	0

HALF-HOURLY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	JAN 1998	JUL 2025	107.5	51.6	N/A	11

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	Dec 2018	N/A	1.1	1356	143
Wind, temperature and pressure flights	Dec 1992	Mar 2019	N/A	1.9	212	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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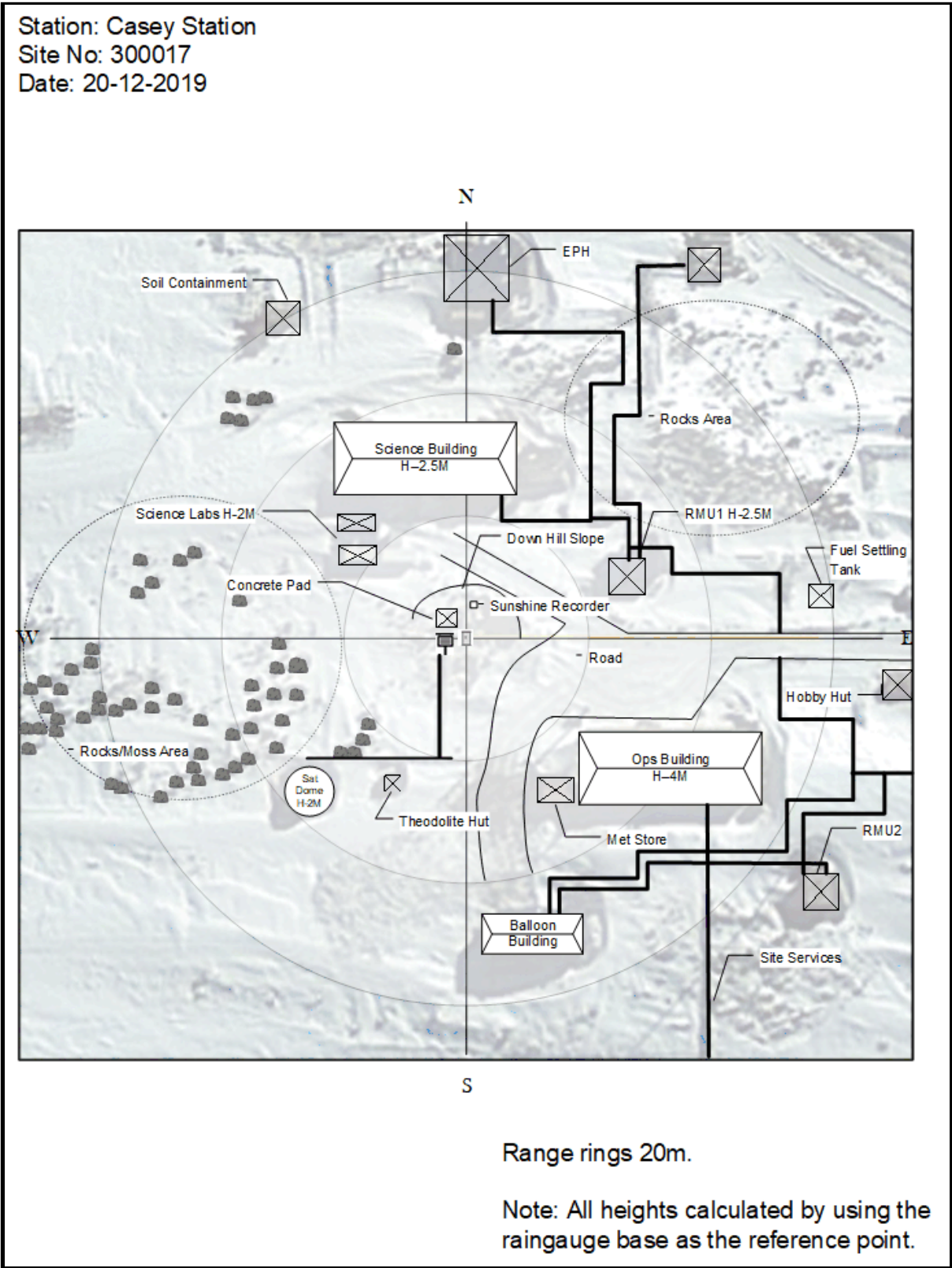
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

20/12/2019(most recent)



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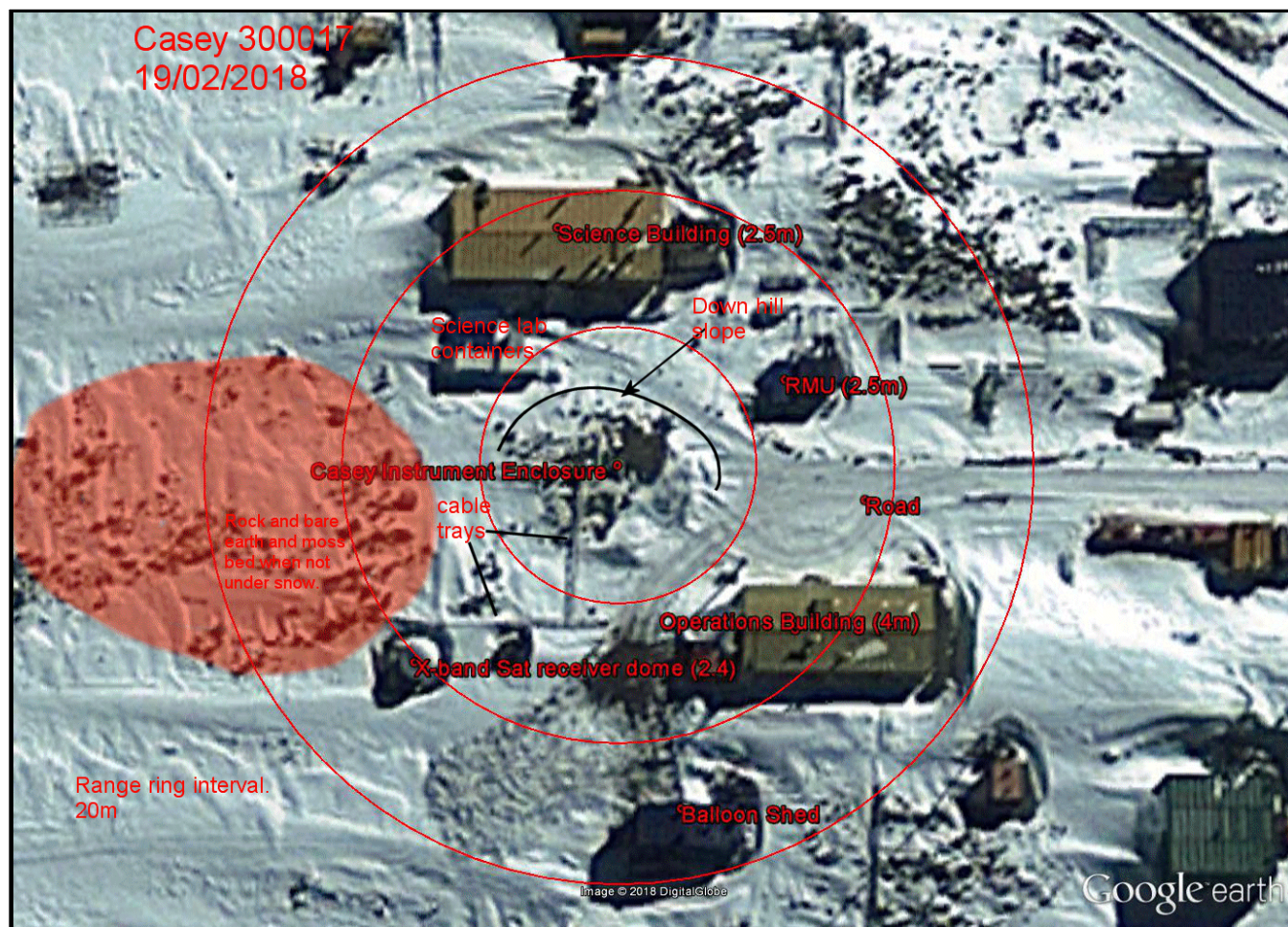
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Instrument Location and Surrounding Features

19/02/2018



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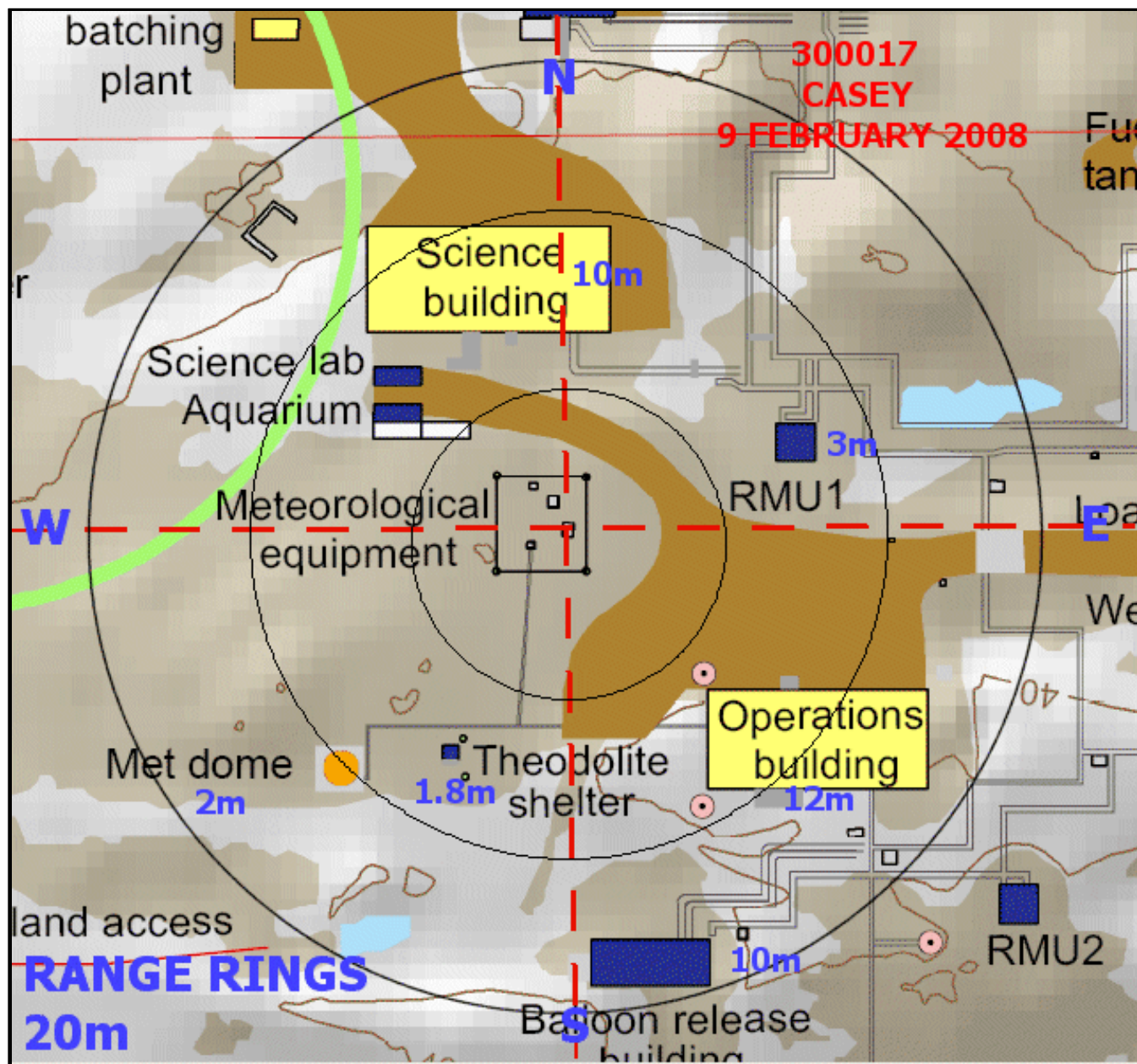
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Instrument Location and Surrounding Features

10/02/2008



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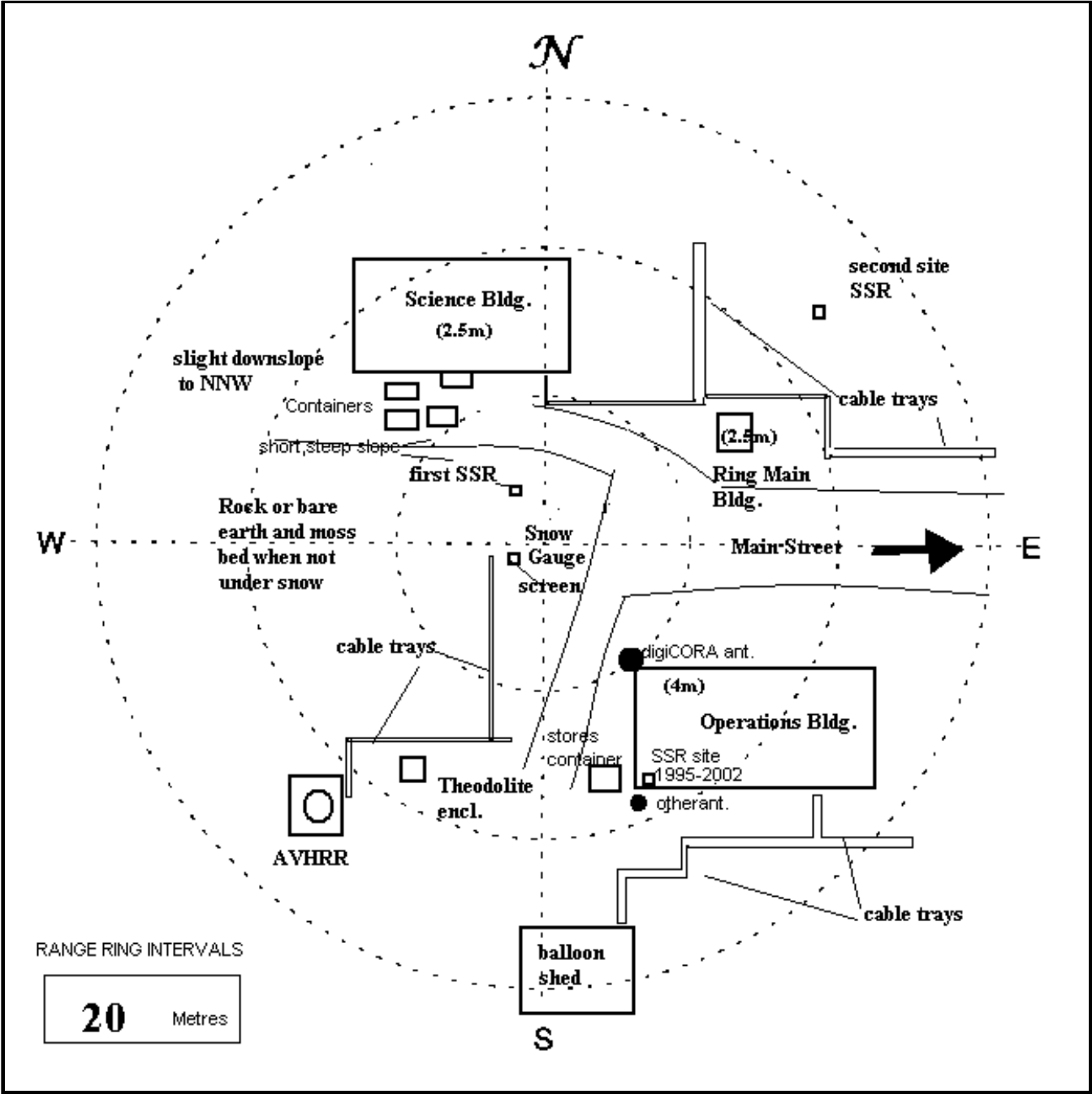
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Instrument Location and Surrounding Features
26/01/2006



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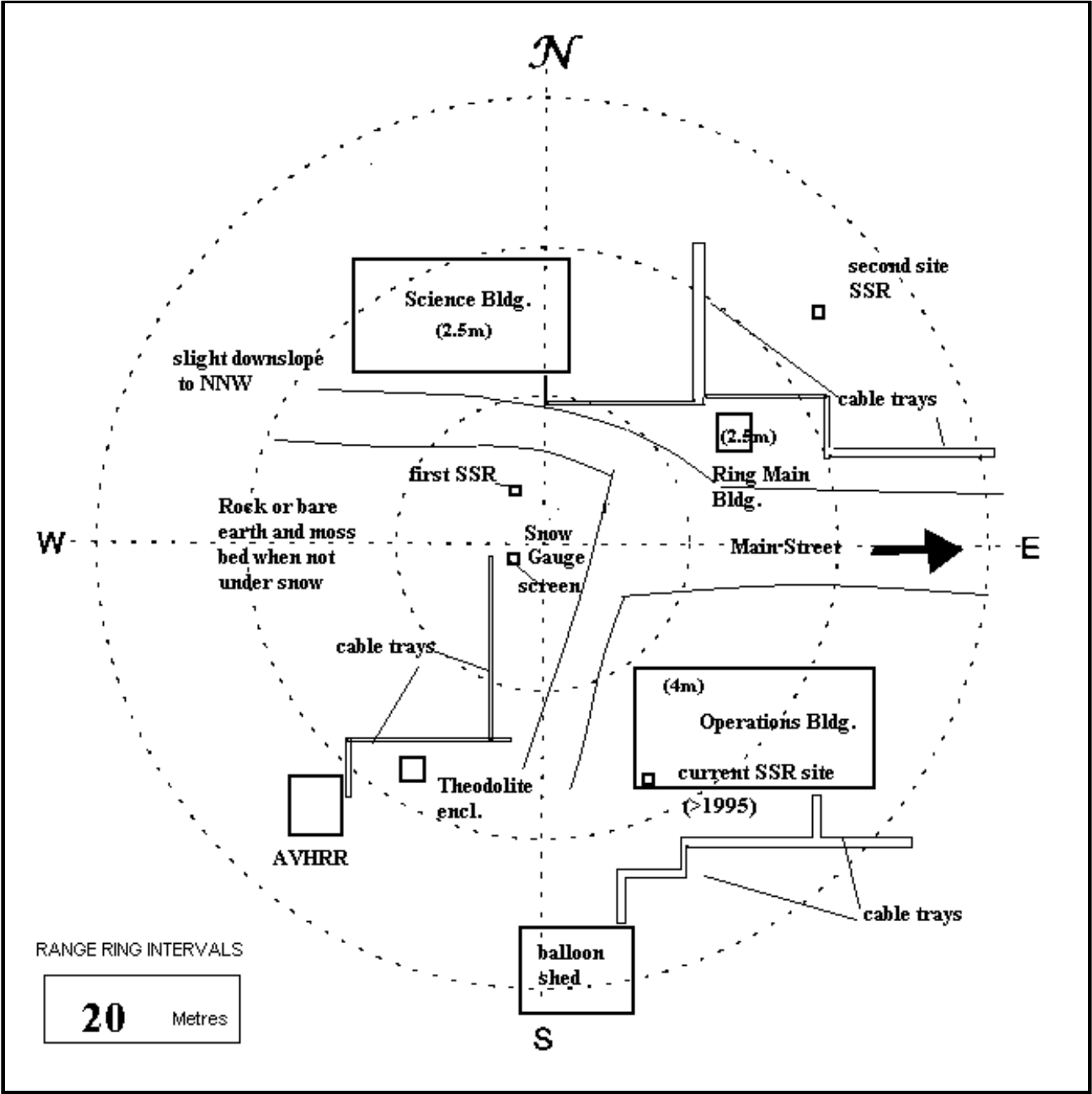
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Instrument Location and Surrounding Features
04/02/2000



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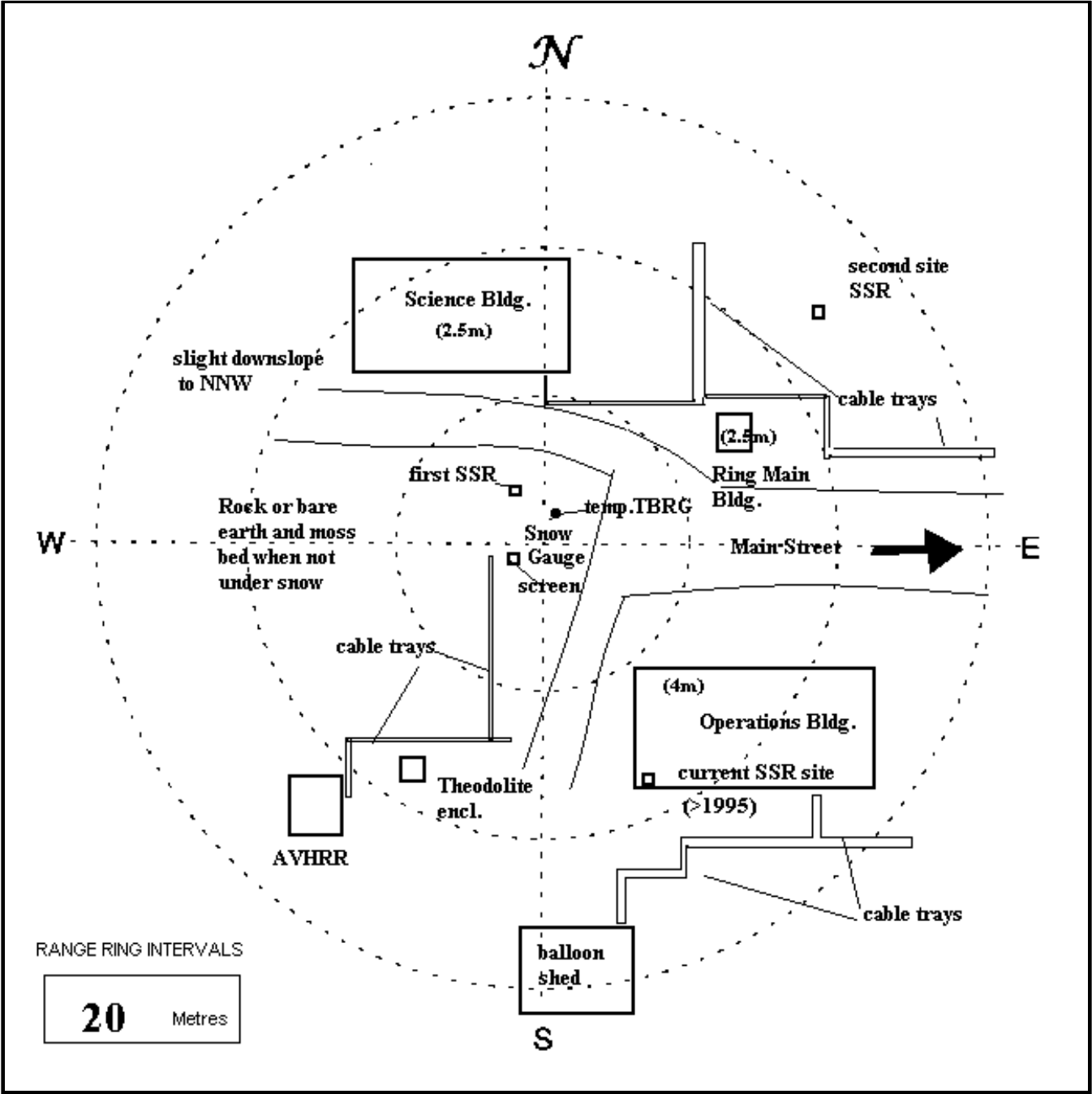
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Instrument Location and Surrounding Features
14/01/1997



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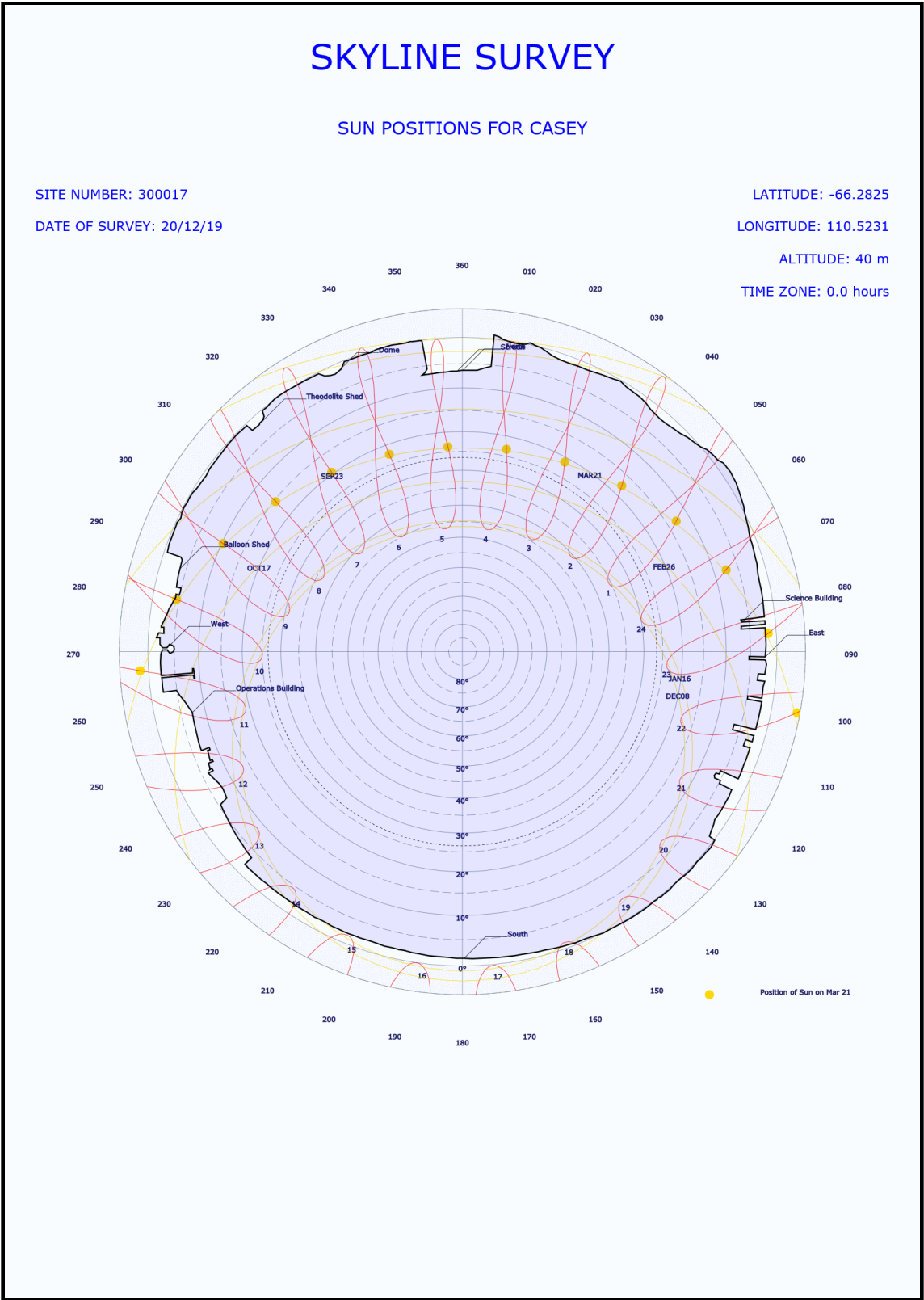
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Skyline Diagram
20/12/2019(most recent)



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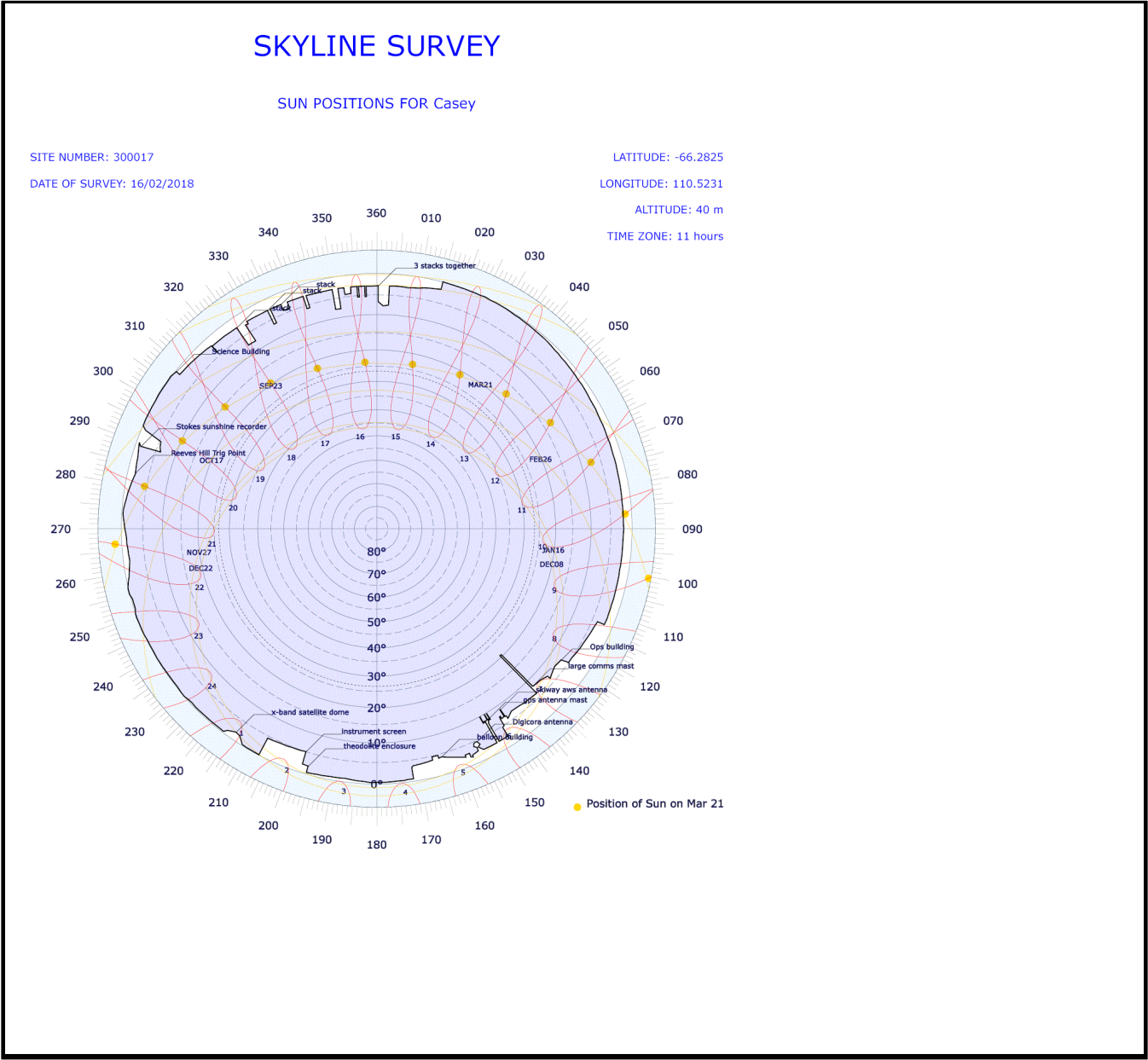
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Skyline Diagram
19/02/2018



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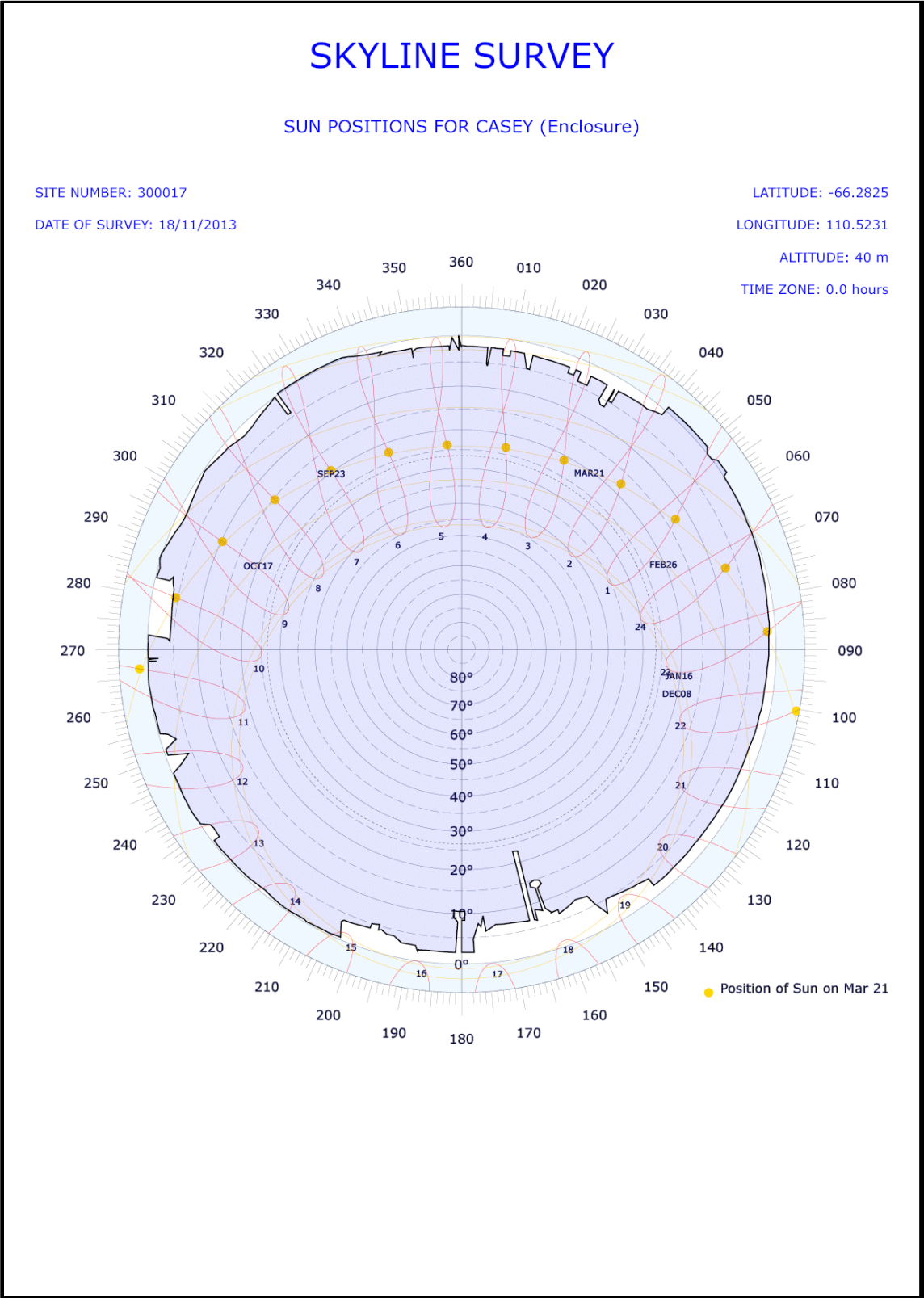
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Skyline Diagram
18/11/2013



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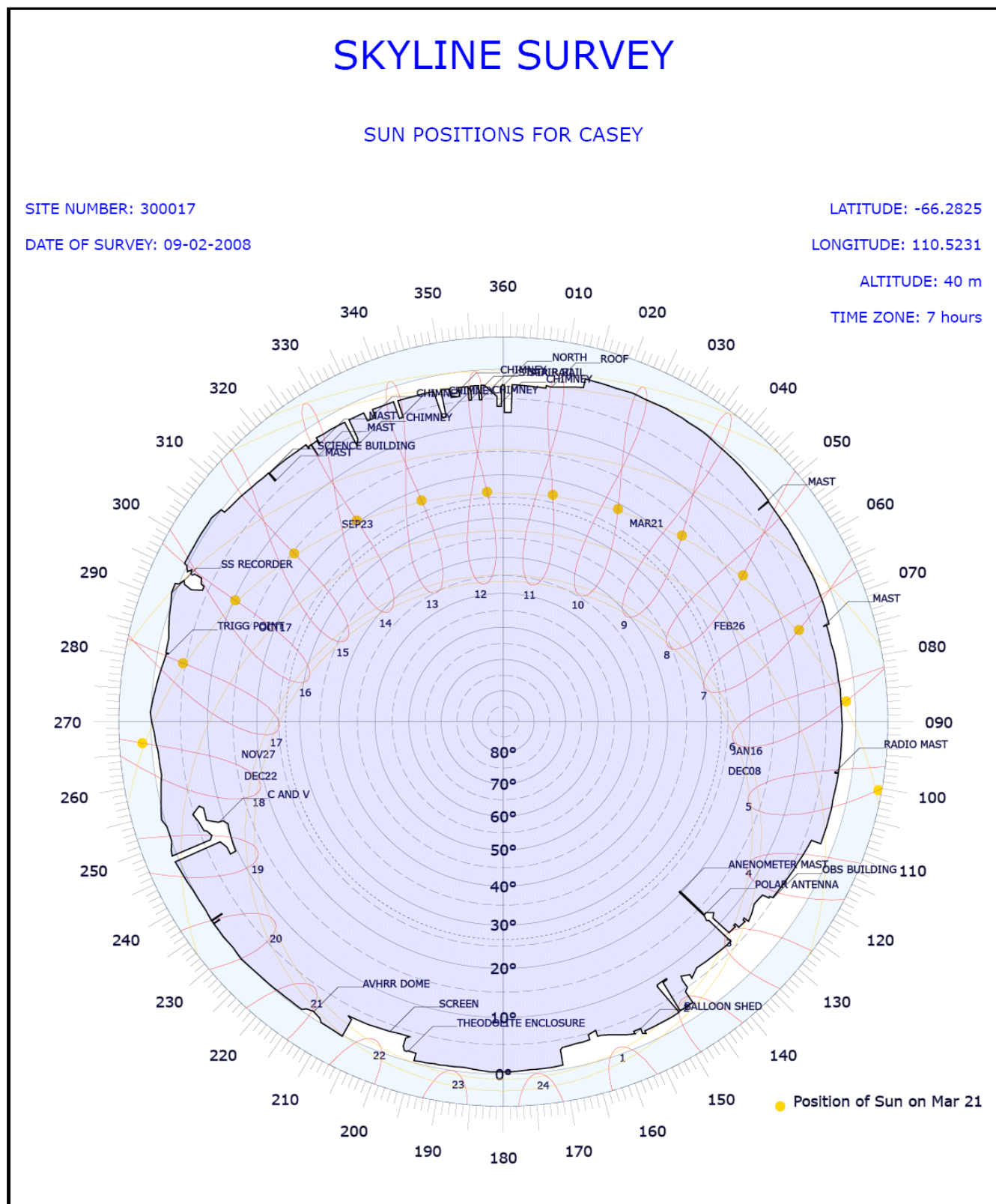
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Skyline Diagram

10/02/2008



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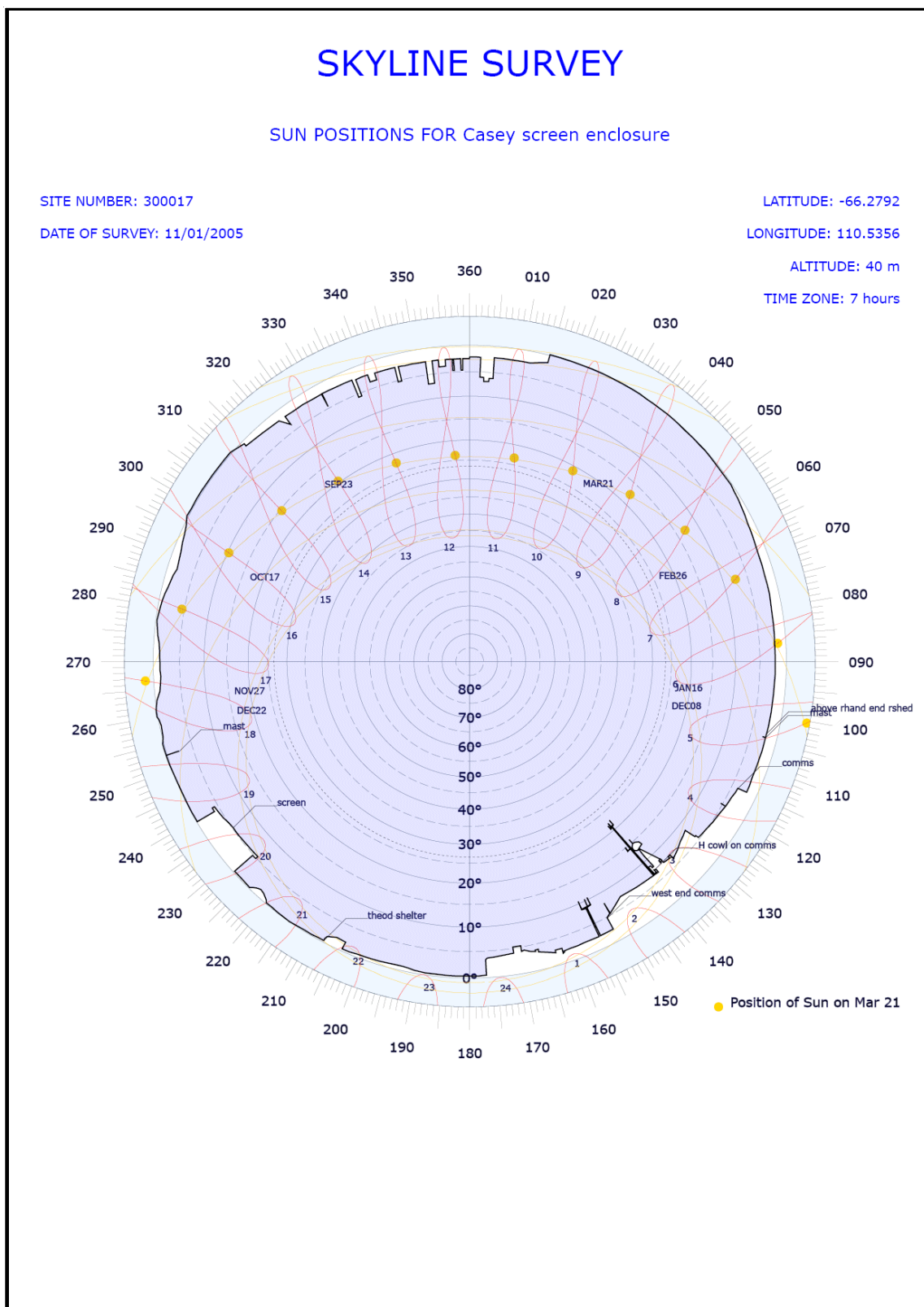
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Skyline Diagram

11/01/2005



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Station Observation Program Summary (Surface Observations) from 01/02/1989 to 30/11/2012

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 01/02/1989 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	-	-	-	-	-	-	-

Upper Air Routine 05/01/2005 to 19/12/2005

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	-	-	-	-	-	-	-

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Upper Air Routine 19/12/2005 (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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Station Equipment History

Equipment Install/Remove

Cloud Height

05/JAN/2008 INSTALL Ceilometer (Type Vaisala CT25K S/N - X45301) Surface Observations
30/NOV/2011 INSTALL Ceilometer (Type Vaisala CT25K S/N - X45301) Surface Observations
19/JUL/2011 REMOVE Ceilometer (Type Vaisala CT25K S/N - X45301) Surface Observations
03/MAY/2012 REMOVE Ceilometer (Type Vaisala CT25K S/N - X45301) Surface Observations
24/FEB/2009 REPLACE Ceilometer (Now Vaisala CT25K S/N - X11502) Surface Observations
06/APR/2011 REPLACE Ceilometer (Now Vaisala CT25K S/N - X45301) Surface Observations

Humidity

20/FEB/1994 INSTALL Humidity Probe (Type Rotronics S/N - 1506/7) Surface Observations
18/AUG/2000 INSTALL Humidity Probe (Type Rotronics S/N - 1674000/21) Surface Observations
06/JUN/2019 INSTALL Humidity Probe (Type Vaisala HMP45D S/N - Y0450009) Surface Observations
01/JAN/2003 REMOVE Humidity Probe (Type Rotronics S/N - 1506/7) Surface Observations
06/JUN/2019 REMOVE Humidity Probe (Type Vaisala HMP45D S/N - Y0450012) Surface Observations
02/JUN/2012 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - Y0450008) Surface Observations
18/MAR/2013 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - Y0450012) Surface Observations
27/FEB/2006 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - Y0450029) Surface Observations
01/FEB/1989 INSTALL Hygrograph (Type Unknown S/N - Unknown) Surface Observations
20/FEB/1994 REMOVE Hygrograph (Type Unknown S/N - Unknown) Surface Observations

Pressure Trend

01/FEB/1989 INSTALL Barograph (Type Weekly S/N - CBM172) Surface Observations
18/AUG/2000 INSTALL Barograph (Type Weekly S/N - CBM215) Surface Observations
18/NOV/2013 REMOVE Barograph (Type Weekly S/N - CBM172) Surface Observations

Lightning (No Electronic History)

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

01/FEB/1989 INSTALL Anemometer (Type Bendix Aerovane S/N - Unknown) Surface Observations
10/MAR/2006 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - Unknown) Surface Observations
20/FEB/1994 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
02/JAN/1989 INSTALL Mast Anemometer (Type Unknown S/N - NONE) Infrastructure
01/FEB/1989 INSTALL Wind Run Anemometer (Type Synchrotac S/N - Unknown) Surface Observations
20/FEB/1994 REMOVE Anemometer (Type Bendix Aerovane S/N - Unknown) Surface Observations
20/FEB/1994 REMOVE Wind Run Anemometer (Type Synchrotac S/N - Unknown) Surface Observations
04/NOV/2020 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 110512) Surface Observations
10/MAR/2006 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - WD70914,WS) Surface Observations

Wet Bulb Temperature (No Electronic History)

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

22/MAR/2019 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 20646) Surface Observations
01/FEB/1989 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - M1320) Surface Observations
01/JAN/2021 INSTALL Thermometer, Mercury, Max (Type Unknown S/N - 9607064) Surface Observations
22/MAR/2019 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - 20641) Surface Observations

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Extended Climatological Station Metadata

All History

Station:	CASEY			Location:	CASEY			State:	ANT
Bureau No.:	300017	WMO No.:	89611	Aviation ID:	CASE	Opened:	01 Feb 1989	Current Status:	Still open
Latitude:	-66.2825	Longitude:	110.5231	Elevation:	40 m	Barometer Elev:	42.3 m	Metadata compiled:	28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

01/JAN/2021 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - 20646) Surface Observations
21/MAR/2001 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 17216) Surface Observations
21/AUG/2002 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 20641) Surface Observations
15/AUG/2016 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 20641) Surface Observations
23/DEC/2005 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 20646) Surface Observations
01/MAY/2004 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 23586) Surface Observations
16/AUG/2014 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 23587) Surface Observations
27/NOV/2014 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 23594) Surface Observations
20/NOV/2007 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 23595) Surface Observations
07/DEC/1993 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 3160) Surface Observations
15/AUG/2003 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - CBM4699) Surface Observations
08/SEP/2003 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - CBM4963) Surface Observations
16/DEC/2015 REPLACE Thermometer, Mercury, Max (Now Unknown S/N - 20642) Surface Observations
10/SEP/2012 REPLACE Thermometer, Mercury, Max (Now WIKA S/N - 31460) Surface Observations
02/AUG/2016 REPLACE Thermometer, Mercury, Max (Now WIKA S/N - 31461) 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

19/APR/2006 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - CBM028) Surface Observations
01/FEB/1989 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - M/8802) Surface Observations
31/MAR/2003 REMOVE Sunshine Recorder (Type Campbell-Stokes S/N - M/8802) Surface Observations

Wind Run

01/FEB/1989 INSTALL Wind Run Anemometer (Type Synchrotac S/N - Unknown) Surface Observations
20/FEB/1994 REMOVE Wind Run Anemometer (Type Synchrotac S/N - Unknown) Surface Observations

Minimum Temperature

01/FEB/1989 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - M3165) Surface Observations
15/NOV/2020 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 17228) Surface Observations
27/JUN/2015 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 17228) Surface Observations
27/NOV/2014 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 17229) Surface Observations
21/AUG/2002 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 20548) Surface Observations
25/DEC/2008 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 20901) Surface Observations
25/MAY/2014 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 20906) Surface Observations
16/AUG/2014 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 23604) Surface Observations
30/OCT/2020 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 23604) Surface Observations

Terrestrial Minimum Temperature (No Electronic History)

Visibility

05/JAN/2008 INSTALL Visibility Meter (Type Vaisala FD12 S/N - X44502) Surface Observations
23/DEC/2008 REMOVE Visibility Meter (Type Vaisala FD12 S/N - X44502) Surface Observations

Soil Temperature 5cm (No Electronic History)

Sub Surface Temperature (No Electronic History)

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Extended Climatological Station Metadata

All History

Station:	CASEY			Location:	CASEY			State:	ANT
Bureau No.:	300017	WMO No.:	89611	Aviation ID:	CASE	Opened:	01 Feb 1989	Current Status:	Still open
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Station Equipment History (continued)

Equipment Install/Remove(Continued)

Electrical Conductivity (No Electronic History)

Oxygen Content

15/DEC/2000 INSTALL Gas Analyser (Type Teledyne 311P S/N - 187253) Upper Air

02/DEC/2011 REMOVE Gas Analyser (Type Teledyne 311P S/N - 187253) Upper Air

RF Reflectivity

01/FEB/1989 INSTALL Radar (Type WF2 S/N - Unknown) Upper Air

31/DEC/1990 REMOVE Radar (Type WF2 S/N - Unknown) Upper Air

Total Column Ozone Amount (No Electronic History)

Pressure

01/FEB/1989 INSTALL Barometer (Type Kew pattern mercury S/N - 1590) Surface Observations

01/JAN/1994 INSTALL Barometer (Type Negretti and Zambra Mk I S/N - CBM021) Surface Observations

12/DEC/2005 INSTALL Barometer (Type Negretti and Zambra Mk I S/N - CBM043) Reference Standards

29/AUG/1994 INSTALL Barometer (Type Negretti and Zambra Mk I S/N - CBM043) Surface Observations

01/FEB/1989 INSTALL Barometer (Type Negretti and Zambra Mk I S/N - Unknown) Surface Observations

10/OCT/1995 INSTALL Barometer (Type Negretti and Zambra Mk II S/N - CBM177) Surface Observations

05/JUN/1996 INSTALL Barometer (Type Negretti and Zambra Mk II S/N - CBM253) Surface Observations

14/FEB/2020 INSTALL Barometer (Type Other S/N - N4810275) Surface Observations

20/FEB/1994 INSTALL Barometer (Type Vaisala PA11A S/N - 561185) Surface Observations

13/SEP/1994 INSTALL Barometer (Type Vaisala PA11A S/N - 661837) Surface Observations

17/OCT/1995 INSTALL Barometer (Type Vaisala PA11A S/N - P3720021) Surface Observations

11/MAR/2019 INSTALL Barometer (Type Vaisala PTB220B S/N - V0350016) Surface Observations

06/NOV/2019 INSTALL ROBTS: Reg Obs Barometer Tfr Std (Type BoM S/N - 049) Reference Standards

10/FEB/2008 INSTALL ROBTS: Reg Obs Barometer Tfr Std (Type BoM S/N - 48) Reference Standards

01/JAN/2021 INSTALL ROBTS: Reg Obs Barometer Tfr Std (Type BoM S/N - 51) Reference Standards

16/MAY/2003 REMOVE Barometer (Type Kew pattern mercury S/N - 1590) Surface Observations

08/FEB/2001 REMOVE Barometer (Type Negretti and Zambra Mk I S/N - CBM043) Surface Observations

01/JAN/1994 REMOVE Barometer (Type Negretti and Zambra Mk I S/N - CBM069) Surface Observations

01/JAN/1994 REMOVE Barometer (Type Negretti and Zambra Mk I S/N - CBM083) Surface Observations

01/DEC/1998 REMOVE Barometer (Type Negretti and Zambra Mk I S/N - CBM122) Surface Observations

11/OCT/2004 REMOVE Barometer (Type Negretti and Zambra Mk II S/N - CBM174) Surface Observations

22/DEC/1999 REMOVE Barometer (Type Negretti and Zambra Mk II S/N - CBM177) Surface Observations

31/OCT/1994 REMOVE Barometer (Type Vaisala PA11A S/N - 561185) Surface Observations

13/MAR/2001 REMOVE Barometer (Type Vaisala PA11A S/N - P3720021) Surface Observations

01/JAN/2021 REMOVE ROBTS: Reg Obs Barometer Tfr Std (Type BoM S/N - 049) Reference Standards

01/JAN/2020 REMOVE ROBTS: Reg Obs Barometer Tfr Std (Type BoM S/N - 057) Reference Standards

07/DEC/1993 REPLACE Barometer (Now Negretti and Zambra Mk I S/N - CBM069) Surface Observations

07/DEC/1993 REPLACE Barometer (Now Negretti and Zambra Mk I S/N - CBM083) Surface Observations

01/NOV/1994 REPLACE Barometer (Now Negretti and Zambra Mk I S/N - CBM122) Surface Observations

04/JAN/2003 REPLACE Barometer (Now Negretti and Zambra Mk II S/N - CBM174) Surface Observations

23/JAN/2006 REPLACE Barometer (Now Vaisala PTB220B S/N - U0530012) Surface Observations

02/JUN/2012 REPLACE Barometer (Now Vaisala PTB220B S/N - U0530012) Surface Observations

18/FEB/2012 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - 018) Reference Standards

02/DEC/2014 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - 055) Reference Standards

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Extended Climatological Station Metadata

All History

Station:	CASEY			Location:	CASEY			State:	ANT
Bureau No.:	300017	WMO No.:	89611	Aviation ID:	CASE	Opened:	01 Feb 1989	Current Status:	Still open
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Station Equipment History (continued)

Equipment Install/Remove(Continued)

29/NOV/2017 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - 057) Reference Standards
02/JAN/2016 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - 09) Reference Standards
18/NOV/2013 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - 51) Reference Standards
05/DEC/2016 REPLACE ROBTS: Reg Obs Barometer Tfr Std (Now BoM S/N - ROBTS50) Reference Standards

Evaporation (No Electronic History)

Rainfall

01/FEB/1989 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
31/MAY/2012 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
01/FEB/1989 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/1989 INSTALL Anemometer (Type Bendix Aerovane S/N - Unknown) Surface Observations
10/MAR/2006 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - Unknown) Surface Observations
20/FEB/1994 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - Unknown) Surface Observations
02/JAN/1989 INSTALL Mast Anemometer (Type Unknown S/N - NONE) Infrastructure
01/FEB/1989 INSTALL Wind Run Anemometer (Type Synchrotac S/N - Unknown) Surface Observations
20/FEB/1994 REMOVE Anemometer (Type Bendix Aerovane S/N - Unknown) Surface Observations
20/FEB/1994 REMOVE Wind Run Anemometer (Type Synchrotac S/N - Unknown) Surface Observations
04/NOV/2020 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 110512) Surface Observations
10/MAR/2006 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - WD70914,WS) Surface Observations

Air Temperature

20/FEB/1994 INSTALL Humidity Probe (Type Rotronics S/N - 1506/7) Surface Observations
18/AUG/2000 INSTALL Humidity Probe (Type Rotronics S/N - 1674000/21) Surface Observations
06/JUN/2019 INSTALL Humidity Probe (Type Vaisala HMP45D S/N - Y0450009) Surface Observations
01/JAN/2003 REMOVE Humidity Probe (Type Rotronics S/N - 1506/7) Surface Observations
06/JUN/2019 REMOVE Humidity Probe (Type Vaisala HMP45D S/N - Y0450012) Surface Observations
02/JUN/2012 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - Y0450008) Surface Observations
18/MAR/2013 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - Y0450012) Surface Observations
27/FEB/2006 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - Y0450029) Surface Observations
20/FEB/1994 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - NONE) Surface Observations
27/FEB/2006 REPLACE Temperature Probe - Dry Bulb (Now Rosemount ST2401 S/N - 0506) Surface Observations
01/FEB/1989 INSTALL Thermograph (Type Unknown S/N - Unknown) Surface Observations
20/FEB/1994 REMOVE Thermograph (Type Unknown S/N - Unknown) Surface Observations
01/FEB/1989 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - CBM198) Surface Observations
21/AUG/2002 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - M2337) Surface Observations

Surface Inclination (No Electronic History)

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All History

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Bureau No.:	300017	WMO No.:	89611	Aviation ID:	CASE	Opened:	01 Feb 1989	Current Status:	Still open
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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
13/JAN/1997 - 30/MAR/2021	Humidity	8
23/JAN/2006 - 18/NOV/2013	Pressure Trend	0
11/DEC/1998 - 30/MAR/2021	Wind Direction	2
25/JAN/2006 - 22/MAR/2019	Maximum Temperature	0
25/JAN/2006 - 10/FEB/2008	Minimum Temperature	0
25/MAR/2008 - 20/OCT/2011	Oxygen Content	0
07/DEC/1993 - 30/MAR/2021	Pressure	5
21/MAR/2001 - 10/FEB/2008	Rainfall	0
11/DEC/1998 - 30/MAR/2021	Wind Speed	2
13/JAN/1997 - 30/MAR/2021	Air Temperature	9

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)
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)
19/MAY/2000	CLASSIFICATION Fielden (FFD)
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)
15/OCT/2019	CLASSIFICATION NOT Processed by ASOS (NPBA)
01/JUL/1998	CLASSIFICATION Observations Only (MO)
01/JUL/2017	CLASSIFICATION Observing Operations Hub - Hobart (OOH-H)
05/APR/2019	CLASSIFICATION Processed by ASOS (PBA) ENDED 15-10-2019
01/JUL/1998	CLASSIFICATION Rawinsonde Stations (RS)
01/SEP/1992	CLASSIFICATION Reference Climate Stations (RCS) ENDED 30-06-2011
14/FEB/1997	CLASSIFICATION Regional Basic Synoptic Network (RBSN)
10/FEB/2008	OBJECT Document/300017080209avhrr
12/JAN/2009	OBJECT Document/300017090111 avhrr_x_sky
18/NOV/2013	OBJECT Document/300017131118avhrr
12/APR/2000	OBJECT Document/F611 cas0004
27/JUN/2000	OBJECT Document/F611 cas0006
01/DEC/2000	OBJECT Document/F611 cas0012
31/MAR/2001	OBJECT Document/F611 cas0103
30/JUN/2001	OBJECT Document/F611 cas0106
10/OCT/2001	OBJECT Document/F611 cas0110

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Latitude:	-66.2825	Longitude:	110.5231	Elevation:	40 m	Current Status:	Still open
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Station Equipment History (continued)

Station Detail Changes(Continued)

28/JAN/2002 OBJECT Document/F611 cas0201
07/APR/2002 OBJECT Document/F611 cas0204
28/JUN/2002 OBJECT Document/F611 cas0206
09/OCT/2002 OBJECT Document/F611 cas0209
14/DEC/2002 OBJECT Document/F611 cas0212
30/JUN/2003 OBJECT Document/F611 cas0306
30/DEC/2003 OBJECT Document/F611 cas0312
01/APR/2004 OBJECT Document/F611 cas0403
24/JUN/2004 OBJECT Document/F611 cas0406
28/SEP/2004 OBJECT Document/F611 cas0409
01/MAR/2005 OBJECT Document/F611 cas0502
01/APR/2005 OBJECT Document/F611 cas0503
04/JUL/2005 OBJECT Document/F611 cas0506
28/SEP/2005 OBJECT Document/F611 cas0509
05/JAN/2006 OBJECT Document/F611 cas0512
03/APR/2006 OBJECT Document/F611 cas0604
02/JUL/2006 OBJECT Document/F611 cas0607
09/OCT/2006 OBJECT Document/F611 cas0609
31/DEC/2006 OBJECT Document/F611 cas0701
02/APR/2007 OBJECT Document/F611 cas0704
04/JUL/2007 OBJECT Document/F611 cas0707
02/OCT/2007 OBJECT Document/F611 cas0710
30/NOV/2008 OBJECT Document/F611 cas0812
01/MAR/2009 OBJECT Document/F611 cas0903
01/JUL/2009 OBJECT Document/F611 cas0907
09/OCT/2009 OBJECT Document/F611 cas0910
19/APR/2010 OBJECT Document/F611 cas1004
10/JAN/2011 OBJECT Document/F611 cas1101
12/APR/2011 OBJECT Document/F611 cas1104
05/JUL/2011 OBJECT Document/F611 cas1107
06/OCT/2011 OBJECT Document/F611 cas1110
03/JAN/2012 OBJECT Document/F611 cas1201
28/MAR/2012 OBJECT Document/F611 cas1203
28/JUN/2012 OBJECT Document/F611 cas1206
26/SEP/2012 OBJECT Document/F611 cas1210
11/MAR/2013 OBJECT Document/F611 cas1303
30/SEP/2013 OBJECT Document/F611 cas1309
01/JUL/1996 OBJECT Document/F611 cas9607
01/DEC/1997 OBJECT Document/F611 cas9712
01/MAY/1998 OBJECT Document/F611 cas9805
01/MAR/1999 OBJECT Document/F611 cas9903
01/NOV/1999 OBJECT Document/F611 cas9911
30/JUN/2013 OBJECT Document/F611_cas1306

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Station Equipment History (continued)

Station Detail Changes(Continued)

16/DEC/2011 OBJECT Document/PV1095_05_2011
27/NOV/2013 OBJECT Document/PV1095_05_2013
16/DEC/2011 OBJECT Document/PV1095_06_2011
27/NOV/2013 OBJECT Document/PV1095_06_2013
16/DEC/2011 OBJECT Document/PV1095_07_2011
27/NOV/2013 OBJECT Document/PV1095_07_2013
16/DEC/2011 OBJECT Document/PV1095_08_2011
27/NOV/2013 OBJECT Document/PV1095_08_2013
20/DEC/2019 OBJECT Document/SKYLINE DATA
18/NOV/2013 OBJECT Document/SKYLINE DATA
10/FEB/2008 OBJECT Document/SKYLINE DATA
19/FEB/2018 OBJECT Document/SKYLINE DATA
18/NOV/2013 OBJECT Document/SKYLINE DATA - ANEMOMETER
19/FEB/2018 OBJECT Document/SKYLINE DATA - ANEMOMETER
25/JAN/2006 OBJECT Document/THEODOLITE REFERENCE POINTS_CASEY
20/DEC/2019 OBJECT Document/WMO SITING CLASSIFICATION
05/DEC/2000 OBJECT Document/cas_lyser_01rpt
05/DEC/2001 OBJECT Document/cas_lyser_02rpt
05/OCT/2004 OBJECT Document/cas_lyser_03rpt
05/DEC/1998 OBJECT Document/cas_lyser_98rpt
16/FEB/2009 OBJECT Document/casey_xband_sunplot20090215
21/APR/2009 OBJECT Document/metconsole_dtseconfig_090421
04/MAR/2011 OBJECT Document/metconsole_dtseconfig_110304
21/APR/2009 OBJECT Document/metconsole_stationconfig_090421
27/JUL/2015 OBJECT Document/pressure_vessel_inspection_PV1095-05
27/JUL/2015 OBJECT Document/pressure_vessel_inspection_PV1095-06
27/JUL/2015 OBJECT Document/pressure_vessel_inspection_PV1095-07
27/JUL/2015 OBJECT Document/pressure_vessel_inspection_PV1095-08
01/FEB/1989 STATION - (nondb seeding) Opened
01/FEB/1989 STATION - (nondb seeding) name Changed to CASEY
01/FEB/1989 STATION - (nondb seeding) stn_ht Changed to 40
01/FEB/1989 STATION - (nondb seeding) stn_ht_deriv Changed to MAP 1:250 000
01/FEB/1989 STATION - (nondb seeding) wmo_num Changed to 89611
31/OCT/1997 STATION aviation_id Changed to CASE
01/FEB/1989 STATION bar_ht Changed to 42.3
01/FEB/1989 STATION bar_ht_deriv Changed to SURVEY
01/FEB/1989 STATION latitude Changed to -66.2825Seeded from NonDb. Corrected using WGS84
01/FEB/1989 STATION latlon_deriv Changed to GPS
01/FEB/1989 STATION longitude Changed to 110.5231Seeded from NonDb. Corrected using WGS84
01/FEB/1989 STATION lu_0_100m Changed to Non-vegetated (barren,desert)
01/FEB/1989 STATION lu_100m_1km Changed to Coastal or Island
01/FEB/1989 STATION lu_1km_10km Changed to Coastal or Island
01/FEB/1989 STATION soil_type Changed to rock

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Extended Climatological Station Metadata
All History

Station: CASEY			Location: CASEY			State: ANT			
Bureau No.:	300017	WMO No.:	89611	Aviation ID:	CASE	Opened:	01 Feb 1989	Current Status:	Still open
Latitude:	-66.2825	Longitude:	110.5231	Elevation:	40 m	Barometer Elev:	42.3 m	Metadata compiled:	28 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

01/FEB/1989 STATION surface_type Changed to bare ground

System Changes

- 15/DEC/1990 SYSTEM External Clients Commenced
- 19/OCT/2000 SYSTEM Infrastructure Ceased
- 01/JAN/1989 SYSTEM Infrastructure Commenced
- 20/FEB/1994 SYSTEM Infrastructure Commenced
- 12/DEC/2005 SYSTEM Reference Standards Commenced
- 15/DEC/1990 SYSTEM Satellite Commenced
- 02/MAY/2013 SYSTEM Space Observations Commenced
- 01/FEB/1989 SYSTEM Surface Observations Commenced
- 01/FEB/1989 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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