



Basic Climatological Station Metadata
Current status

Metadata compiled: 28 JUL 2025

Station: KENT TOWN

Bureau of Meteorology station number: 023090
Bureau of Meteorology district name: Adelaide Plains
State: SA

World Meteorological Organization number: 94675
Identification: ADRO

Network Classification: CLIMAT Stations
Station purpose: Synoptic, Aeronautical
Automatic Weather Station:



Current Station Location				
Latitude	Decimal	-34.9211	Hour Min Sec	34°55'16"S
Longitude	Decimal	138.6216	Hour Min Sec	138°37'18"E
Station Height	48 m	Barometer Height	51 m	
Method of station geographic positioning			GPS	

Year opened: 1977
Status: Closed

Station summary

No summary for this site has been written as yet.

Historical metadata for this site has been quality controlled for accuracy and completeness against available source information. However, users should be aware of the possible unavailability of confident source data and as such this site-specific metadata should be considered accordingly. Information may not be complete, as backfilling of historical data is incomplete.



Basic Climatological Station Metadata
Current status

Station: KENT TOWN			Location: KENT TOWN			State: SA	
Bureau No.: 023090	WMO No.: 94675	Aviation ID: ADRO	Opened: 01 Jan 1977		Current Status: Closed		
Latitude: -34.9211	Longitude: 138.6216	Elevation: 48 m	Barometer Elev: 51 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
EVAPORATION	FEB 1977	JUN 2015	93.0	974	0
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	FEB 1977	JUN 2011	90.2	891	11
GROUND MINIMUM TEMPERATURE	FEB 1977	FEB 2012	92.2	813	6
MAXIMUM AIR TEMPERATURE	FEB 1977	JUL 2020	99.9	8	0
MAXIMUM WIND GUST SPEED	FEB 1977	JUL 2020	98.4	151	3
SUNSHINE HOURS	FEB 1977	JUN 2015	96.4	163	11
WIND RUN ABOVE 10 FEET	SEP 1977	JUL 2020	99.3	108	0
WIND RUN BELOW 10 FEET	FEB 1977	JUL 2020	40.1	1323	269
RAINFALL	FEB 1977	JUL 2020	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	FEB 1977	JUL 2020	99.7	10.0	0	0
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
DEW POINT	FEB 1977	JUL 2020	99.7	10.0	0	0
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
MEAN SEA LEVEL PRESSURE	FEB 1977	JUL 2020	99.7	10.0	4	0
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
SOIL TEMPERATURE - 10cm	JUN 1999	JUL 2020	95.5	5.8	26	0
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
TOTAL CLOUD AMOUNT	FEB 1977	FEB 2007	99.0	7.8	13	0
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	
WIND SPEED	FEB 1977	JUL 2020	99.7	10.0	0	0
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0	

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RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	FEB 1977	FEB 2017	84.5	765	49
1 8 5 0	1 9 0 0		1 9 5 0		2 0 0 0

ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	NOV 2001	JUL 2020	99.5	1433.3	N/A	0

HALF-HOURLY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	OCT 1993	JUL 2020	100.7	48.3	N/A	0

THERE ARE NO UPPER-AIR EDT DATA HOLDINGS

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

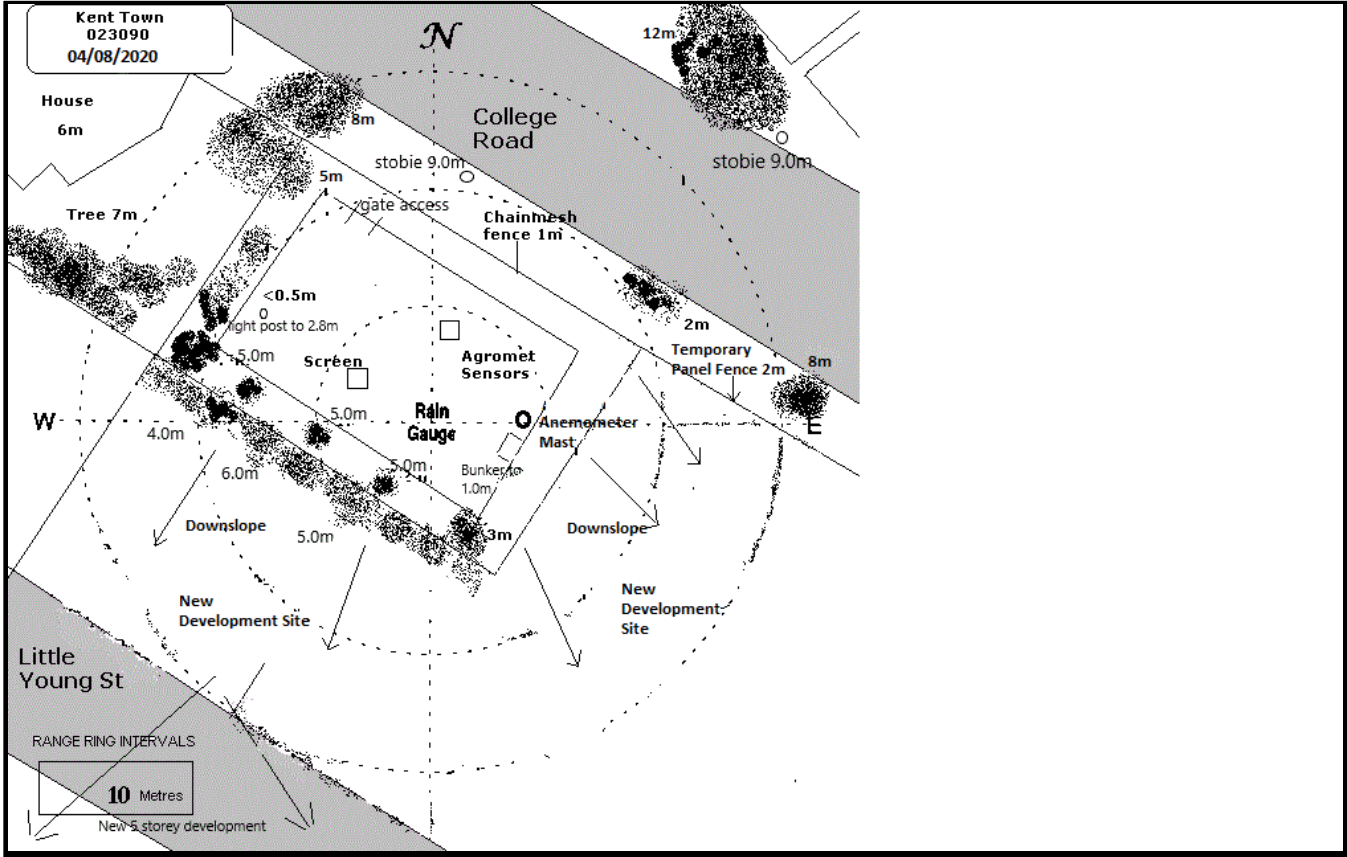
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Extended Climatological Station Metadata
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Instrument Location and Surrounding Features
04/08/2020(most recent)



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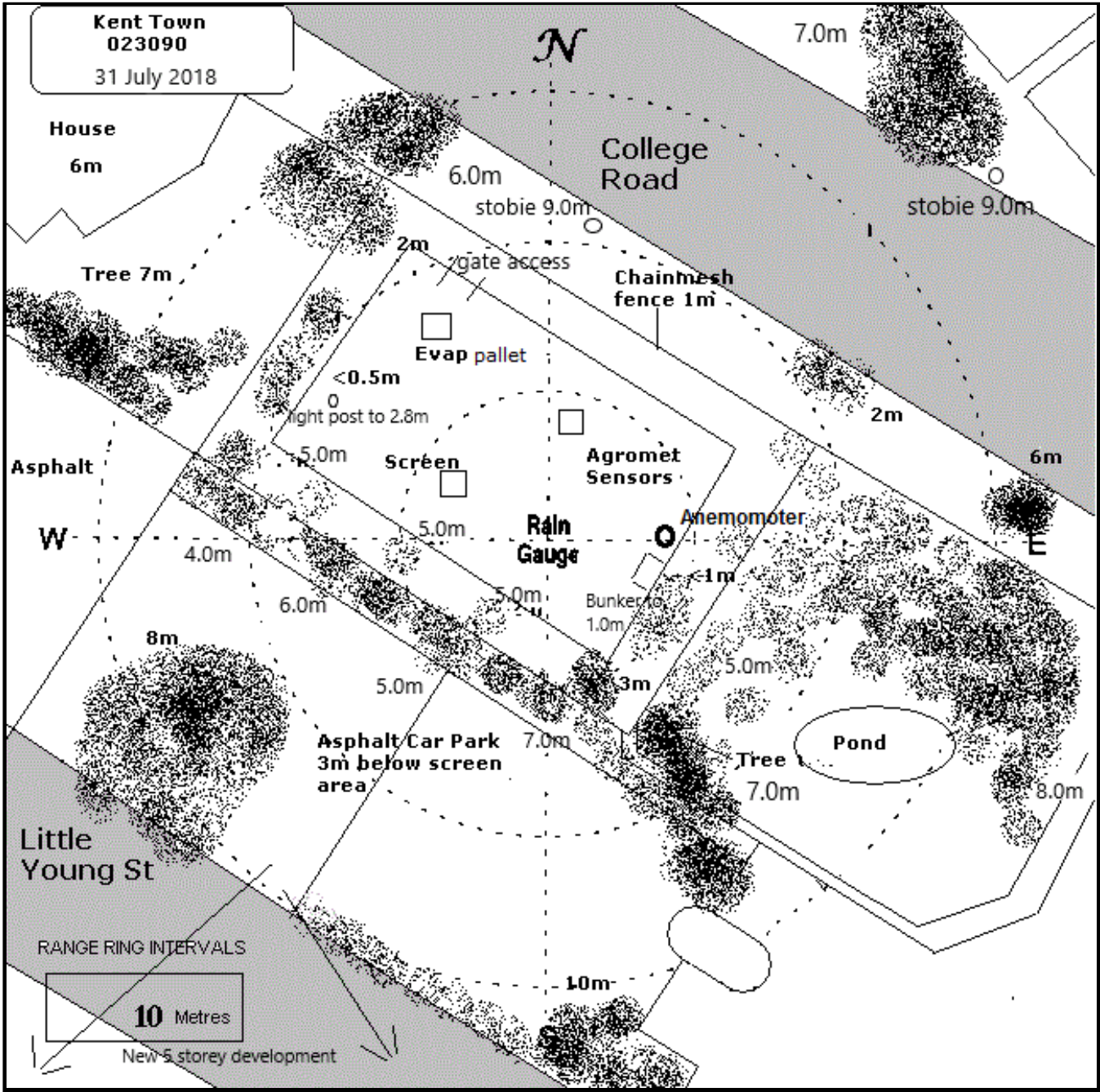
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Instrument Location and Surrounding Features
31/07/2018



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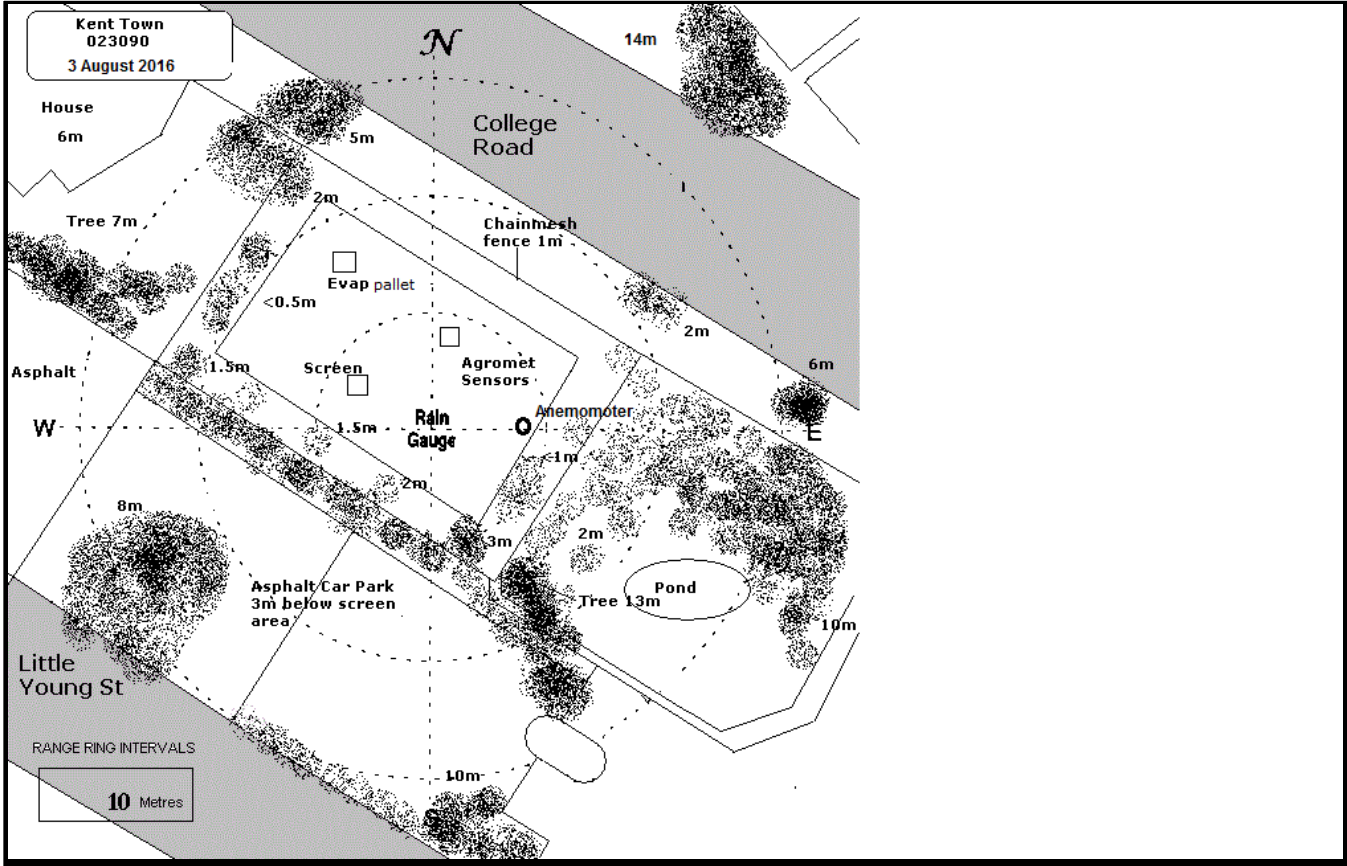
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Instrument Location and Surrounding Features
03/08/2016



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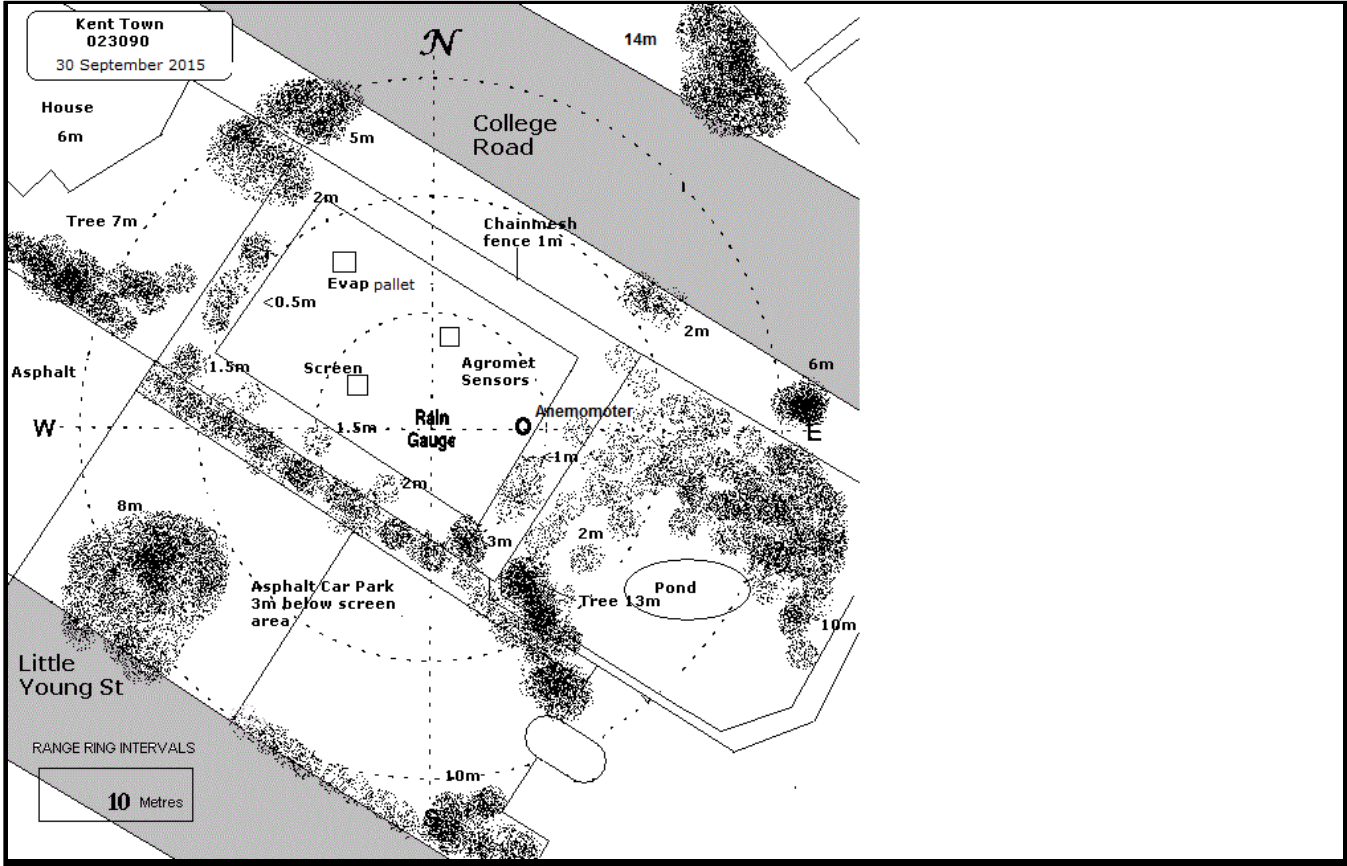
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Instrument Location and Surrounding Features
30/09/2015



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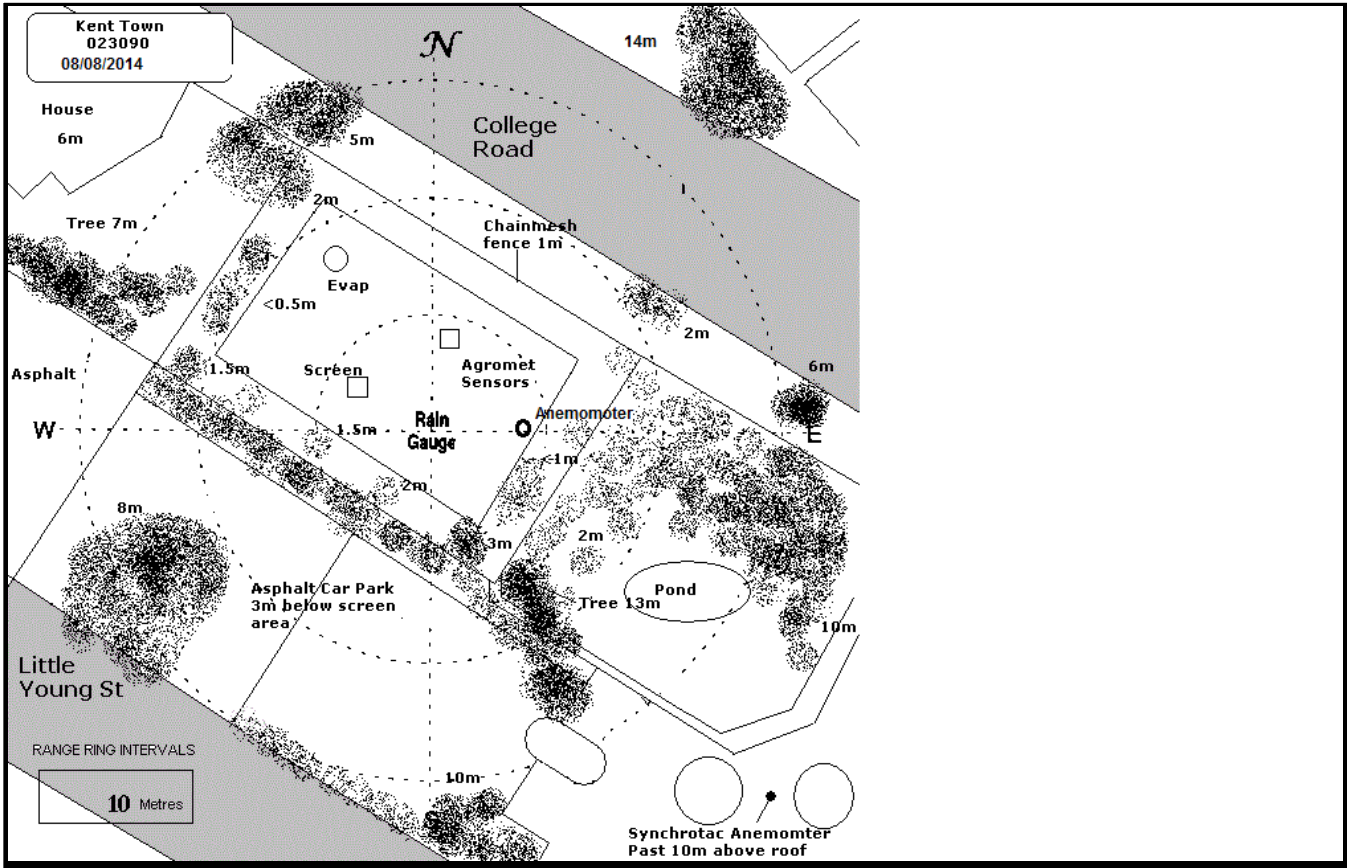
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Instrument Location and Surrounding Features
08/08/2014



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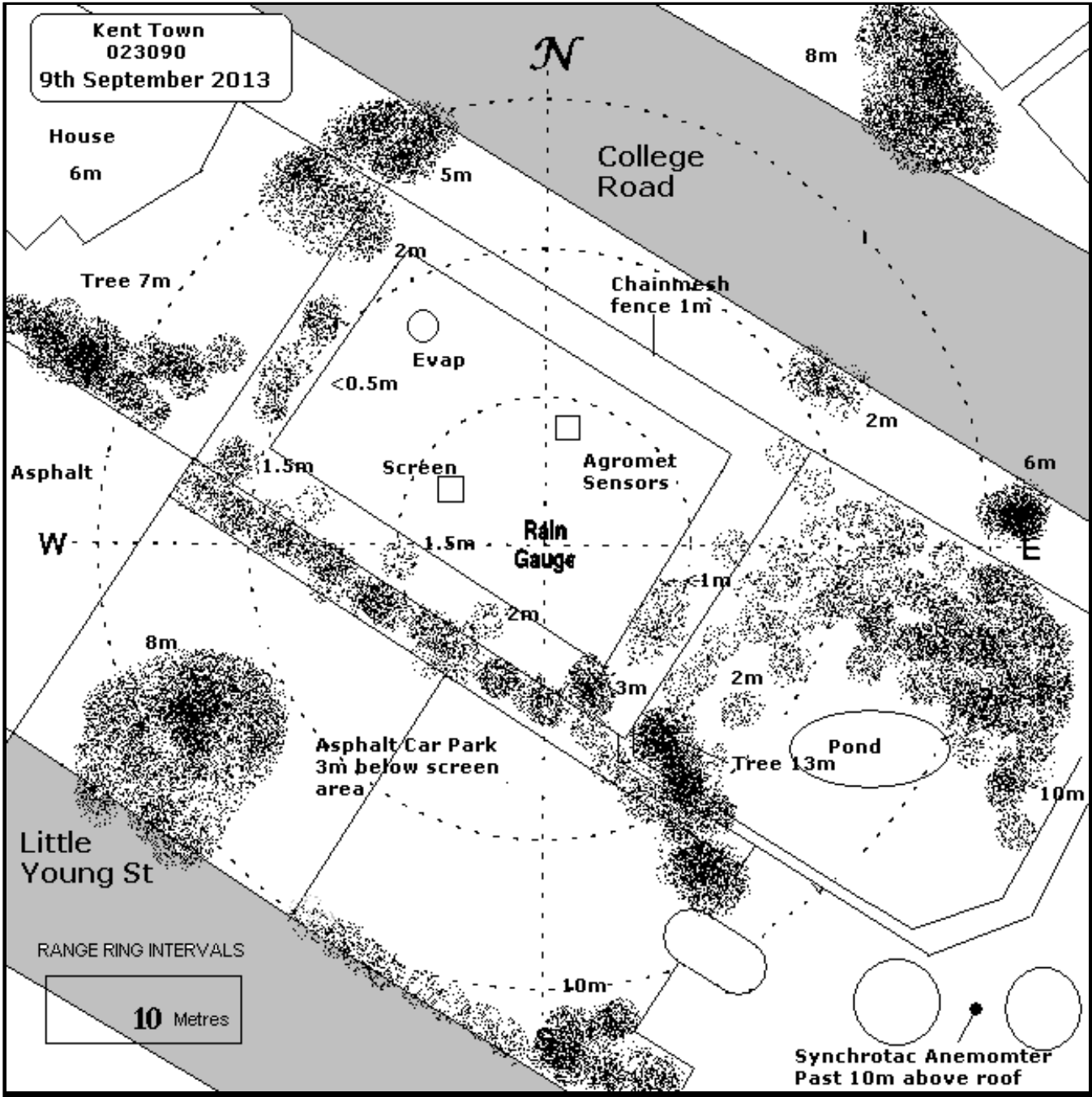
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Instrument Location and Surrounding Features
09/09/2013



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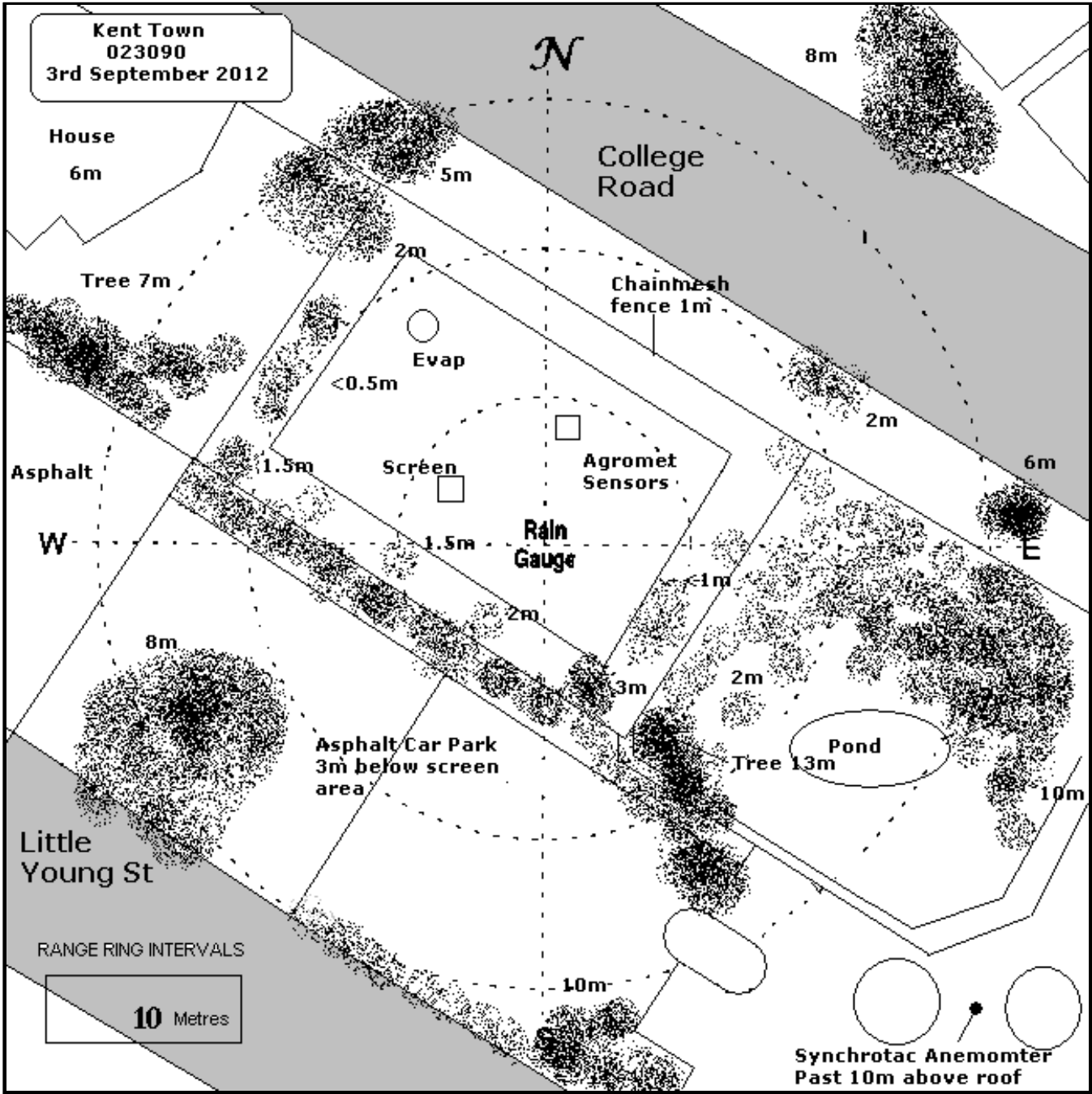
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Instrument Location and Surrounding Features
03/09/2012



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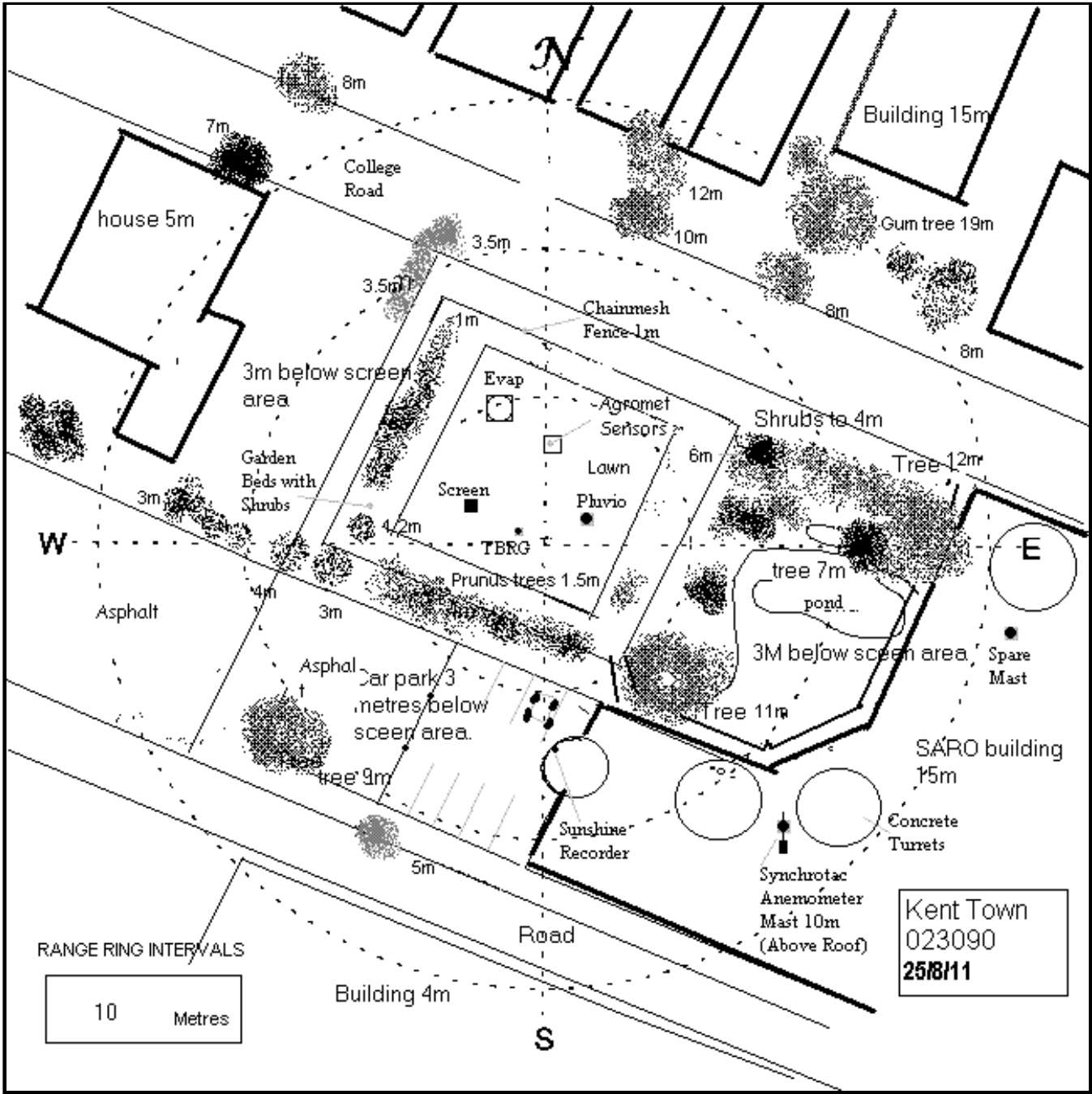
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Instrument Location and Surrounding Features
25/08/2011



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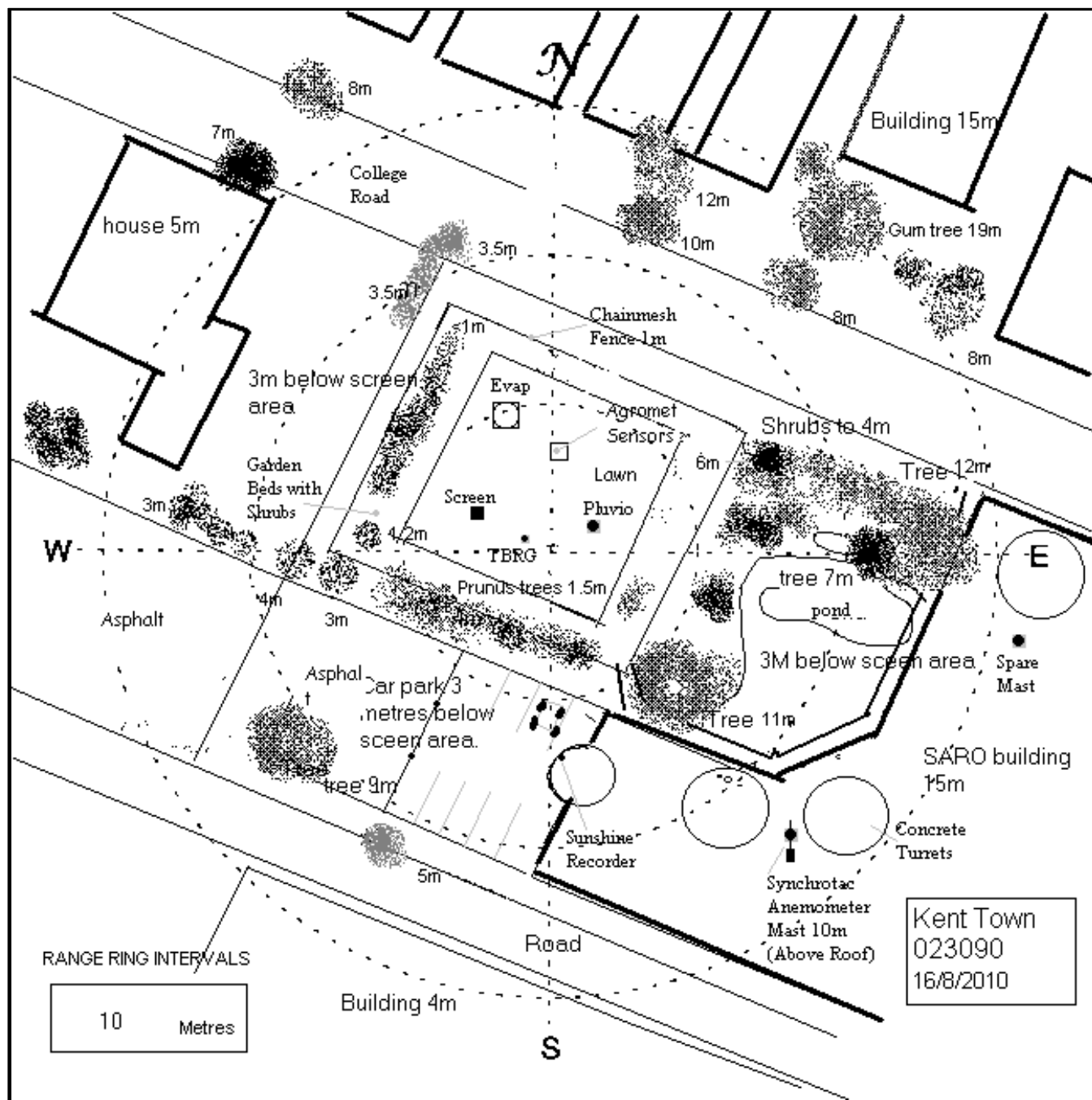
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16/08/2010



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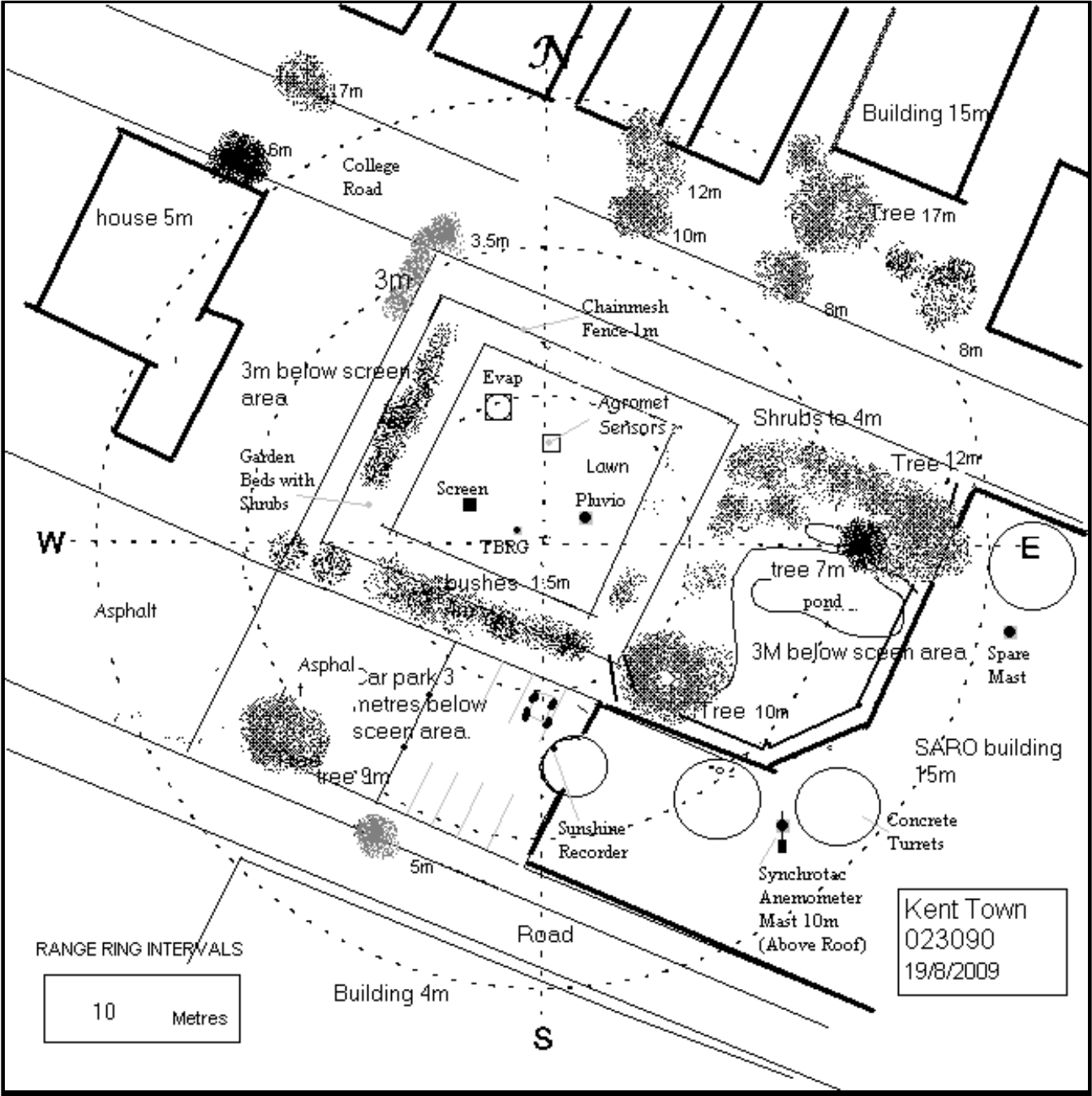
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Instrument Location and Surrounding Features
19/08/2009



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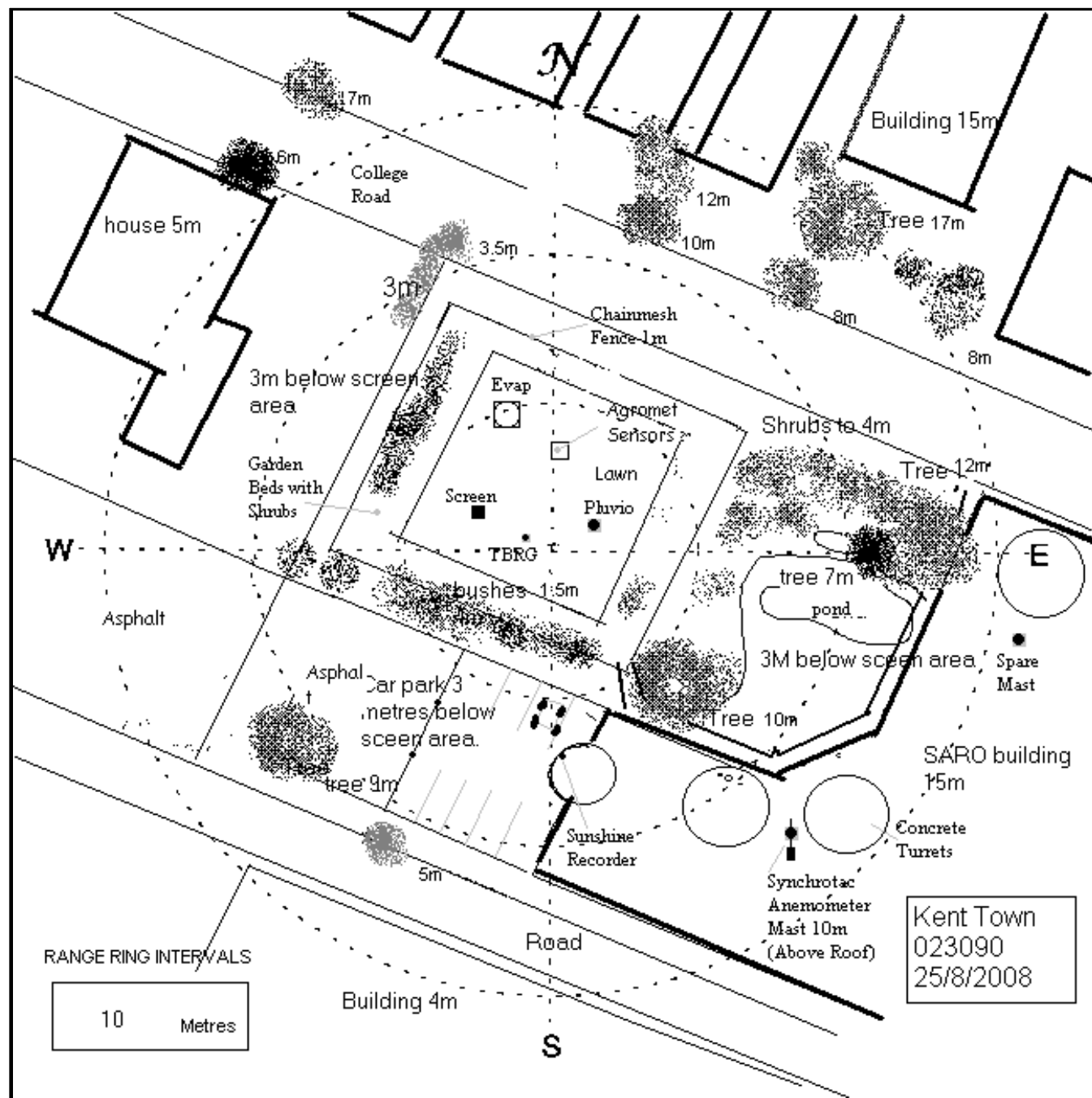
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25/08/2008



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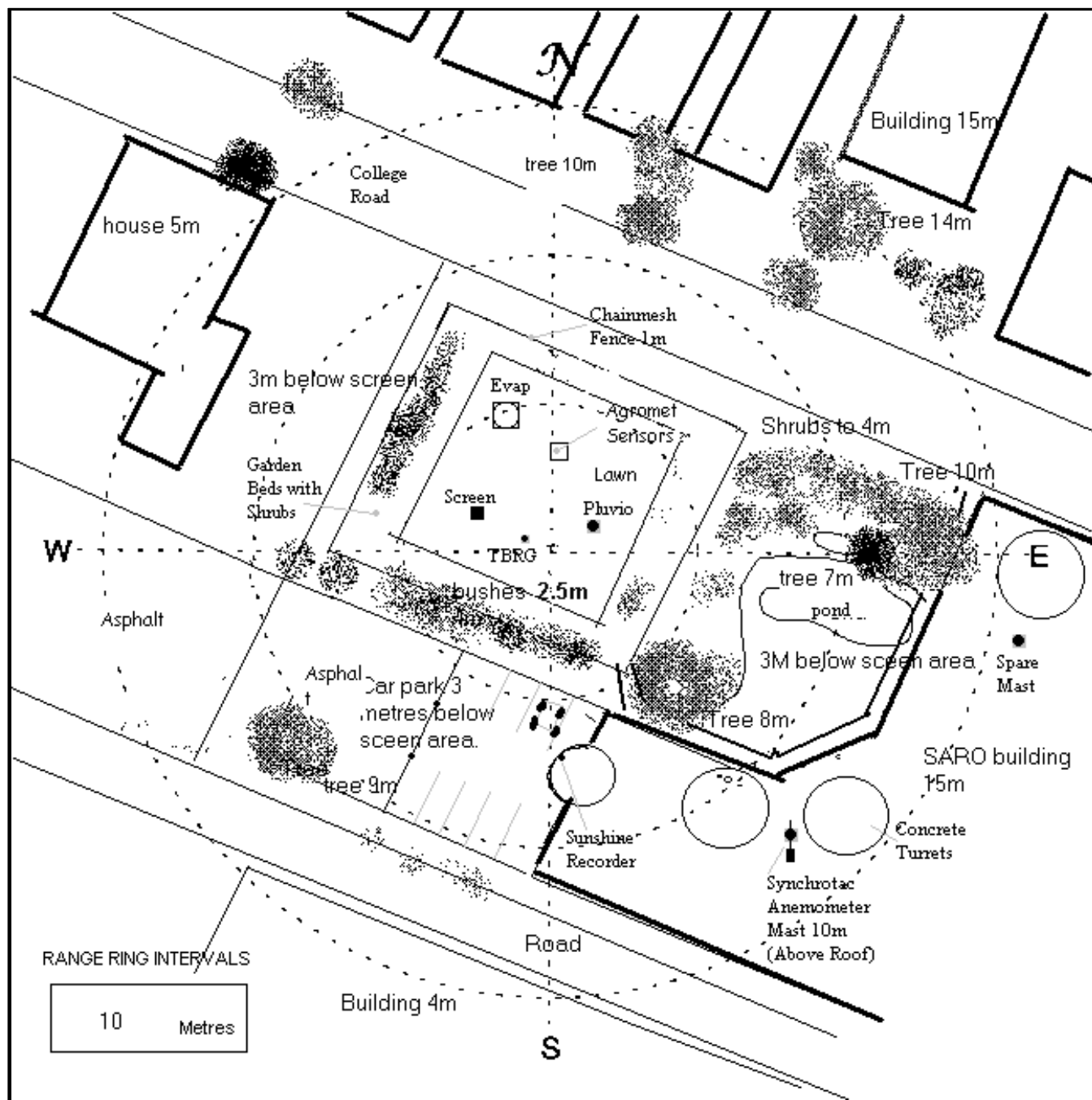
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14/08/2007



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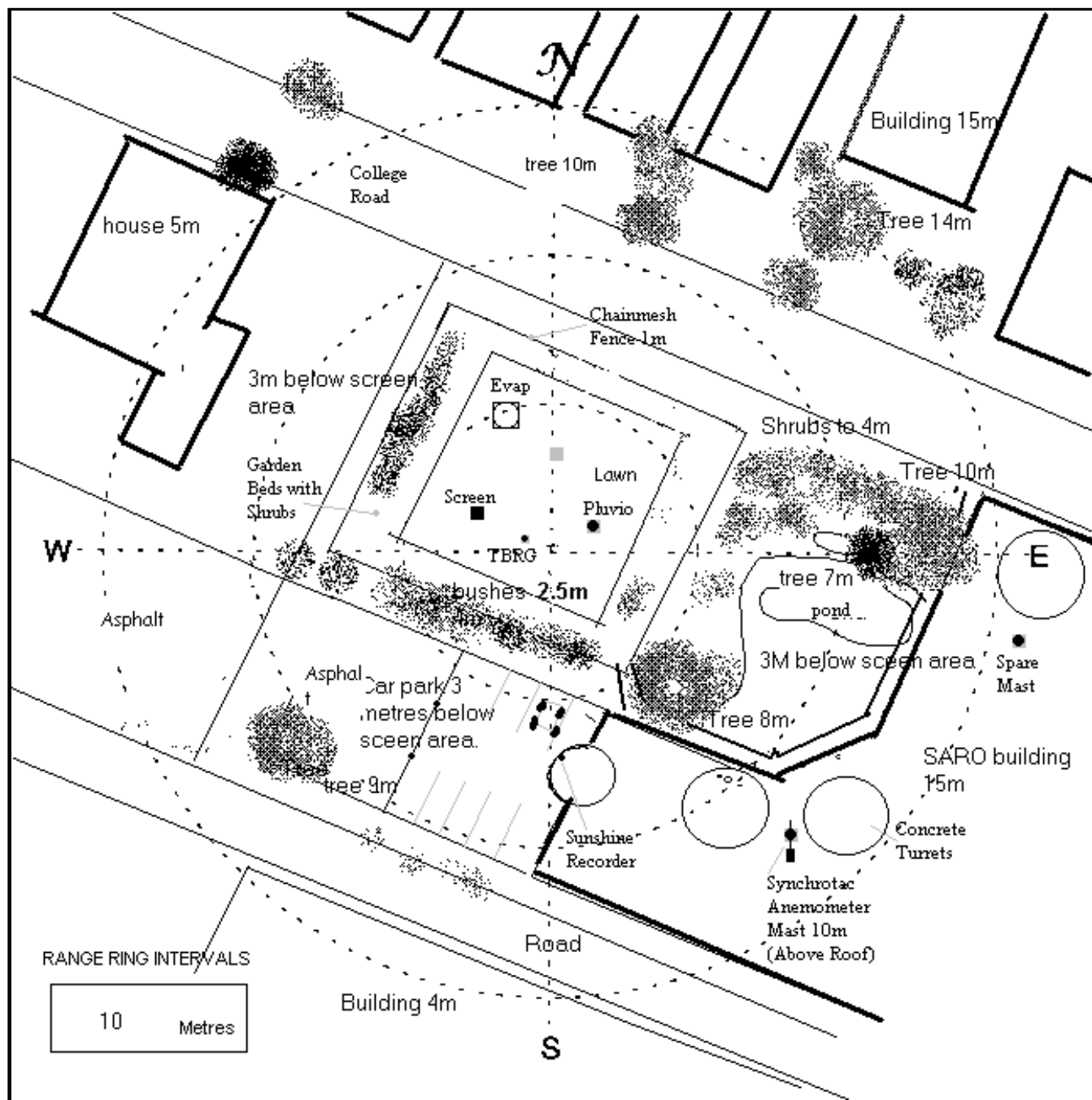
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10/10/2006



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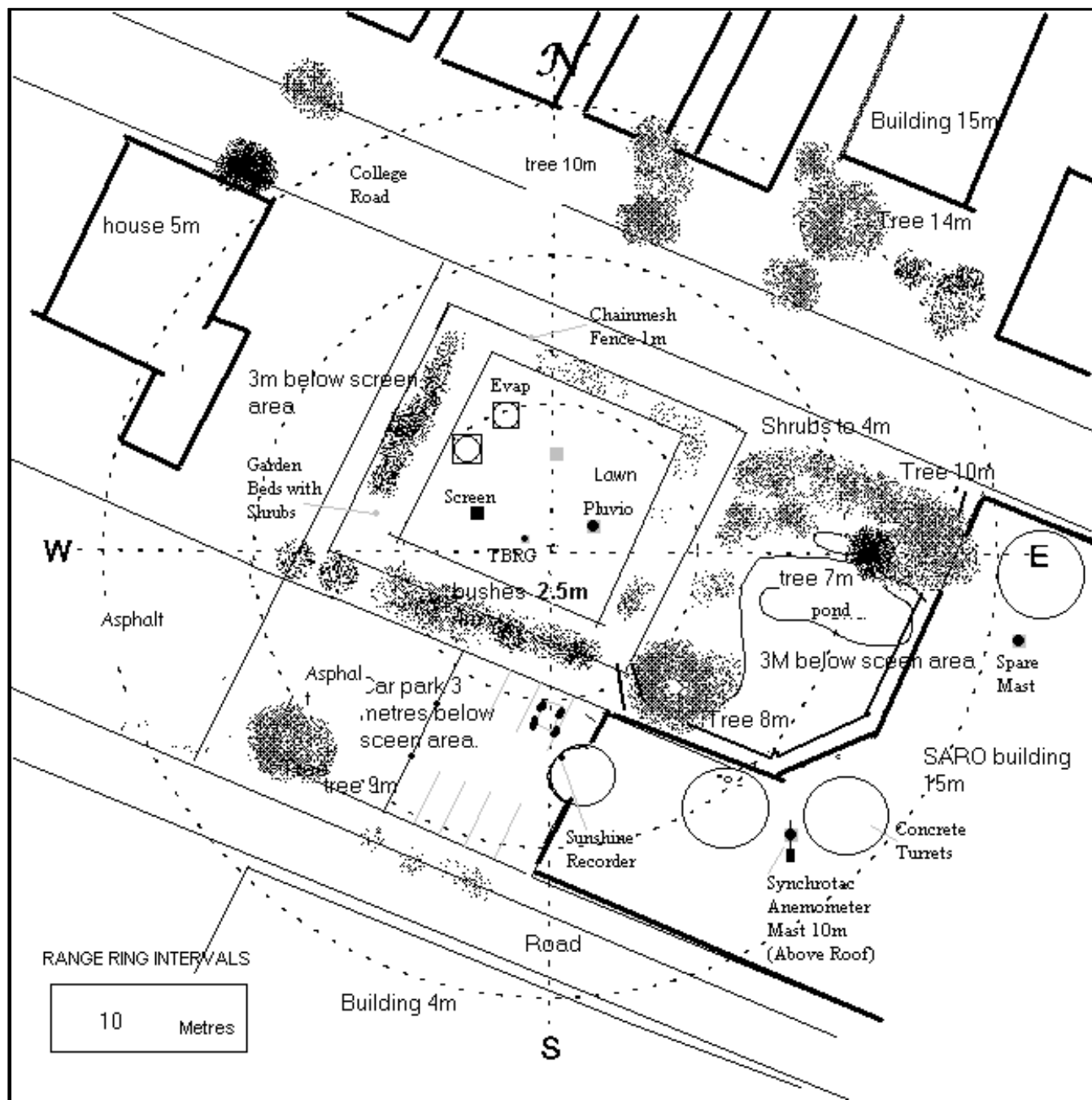
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10/03/2005



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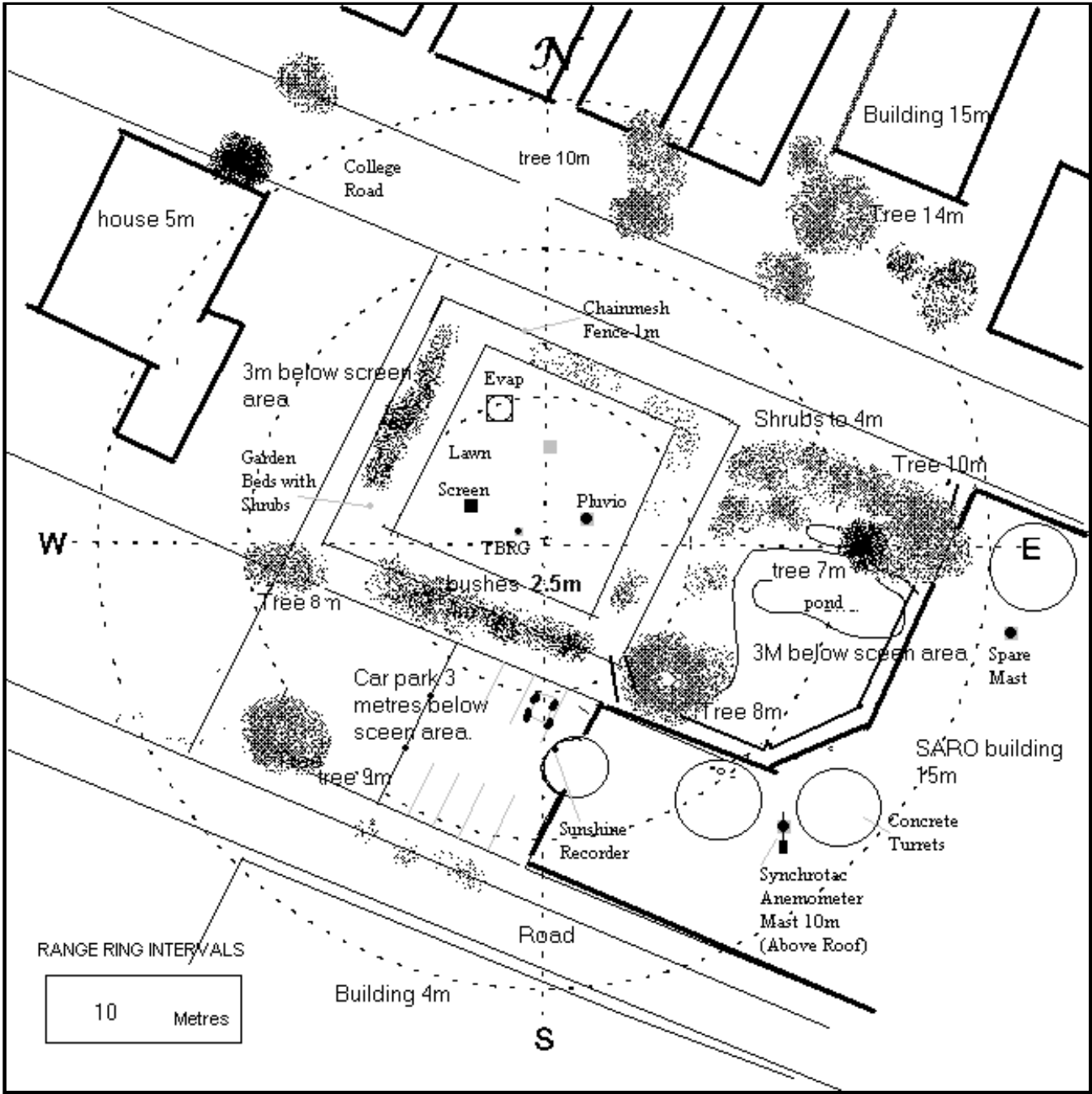
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Instrument Location and Surrounding Features
23/09/2003



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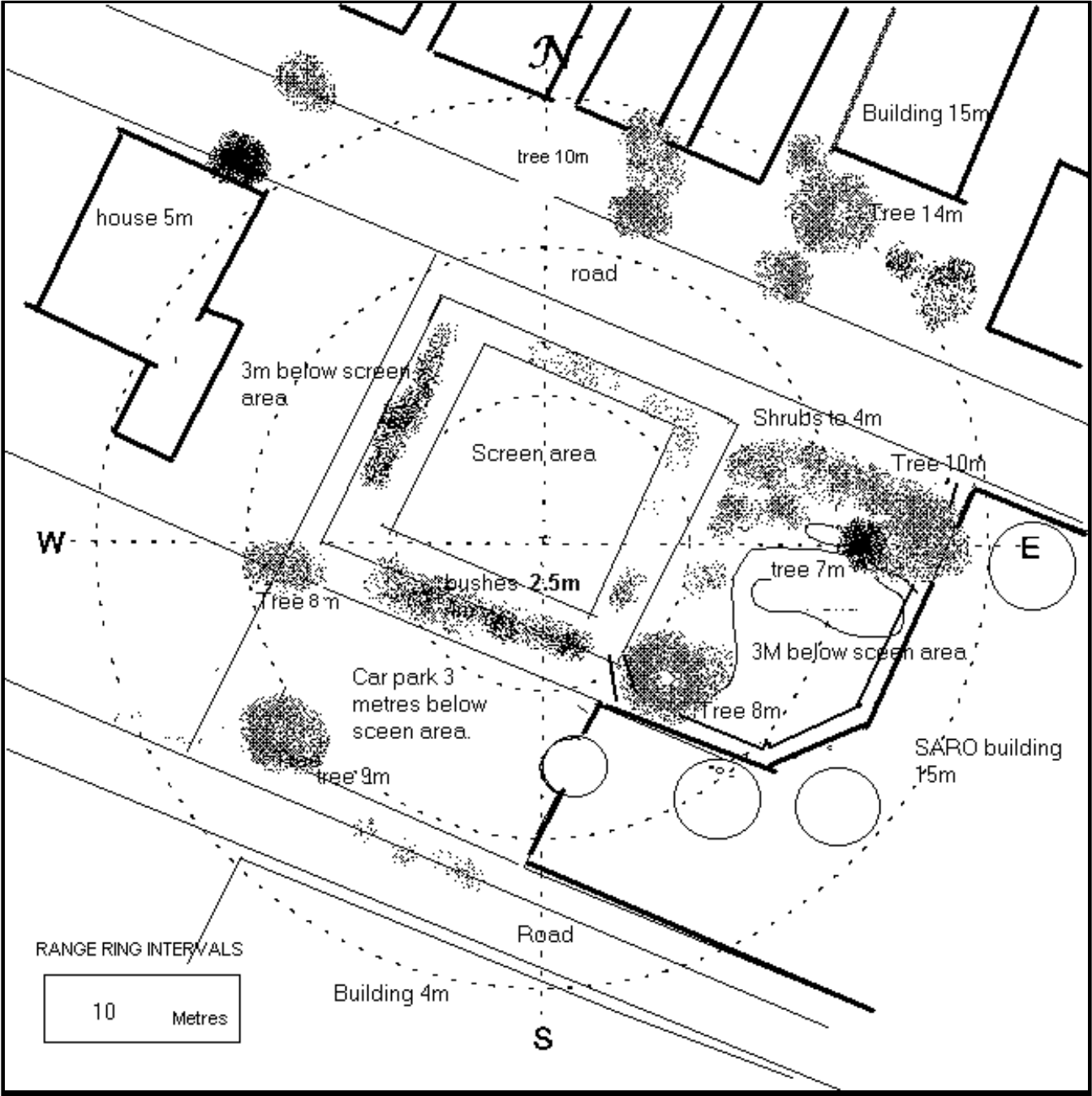
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						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
14/08/2002



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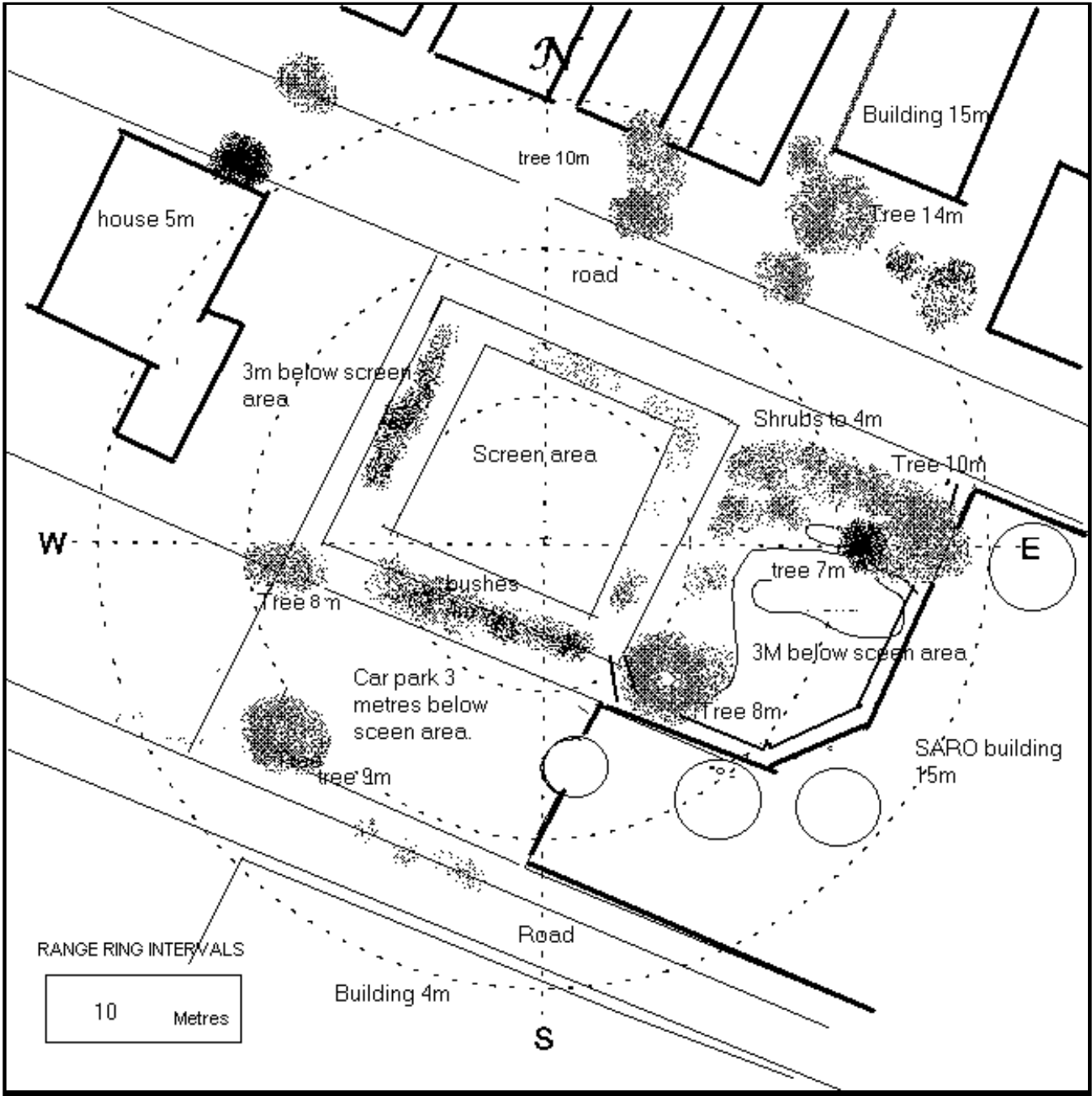
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Extended Climatological Station Metadata
All History

Station:	KENT TOWN		Location:	KENT TOWN		State:	SA
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m
						Current Status:	Closed
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
31/08/2001



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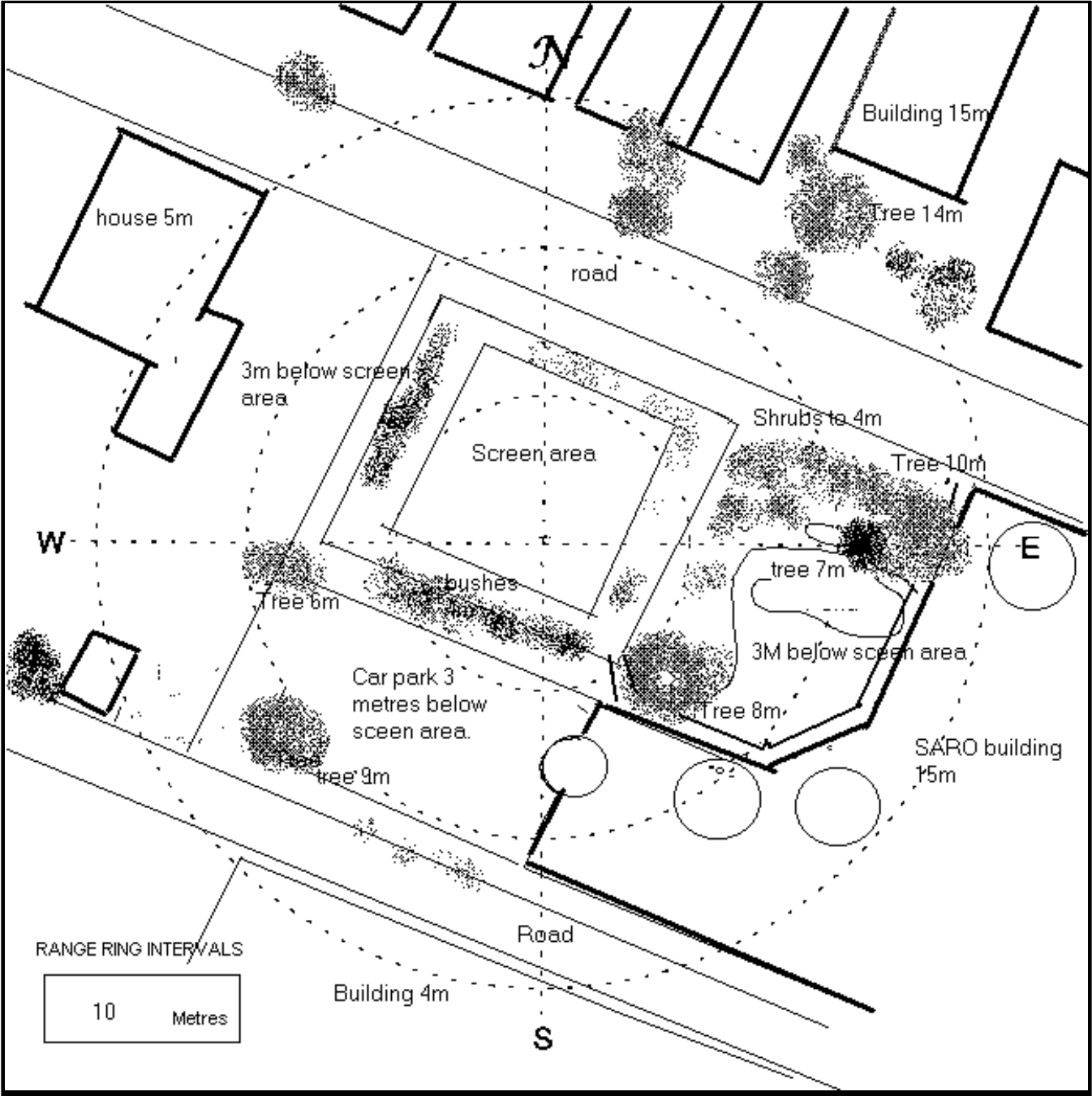
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Extended Climatological Station Metadata
All History

Station:	KENT TOWN		Location:	KENT TOWN		State:	SA
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m
						Current Status:	Closed
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
12/09/2000



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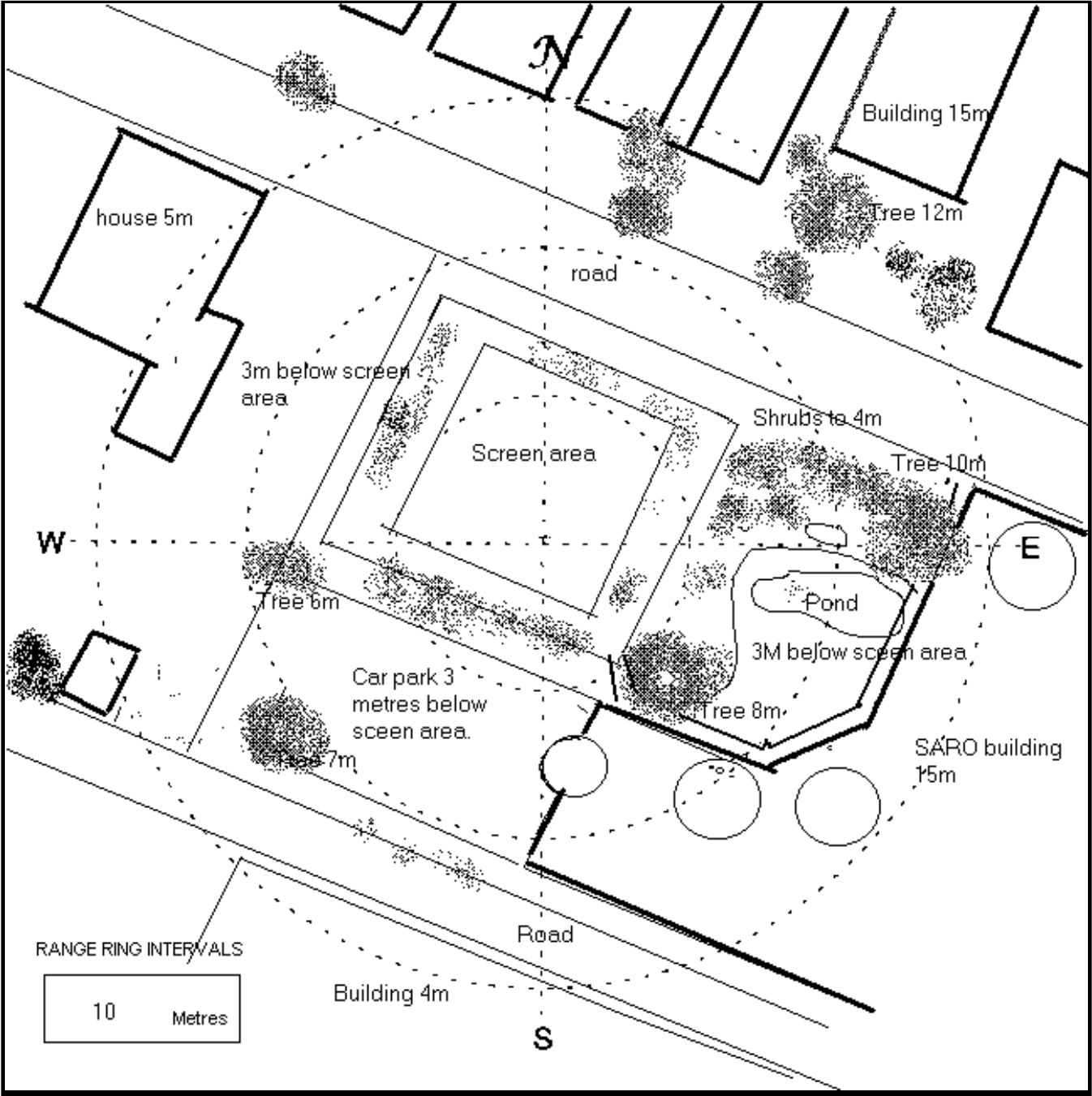
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Extended Climatological Station Metadata
All History

Station:	KENT TOWN		Location:	KENT TOWN		State:	SA
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m
						Current Status:	Closed
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
11/11/1999



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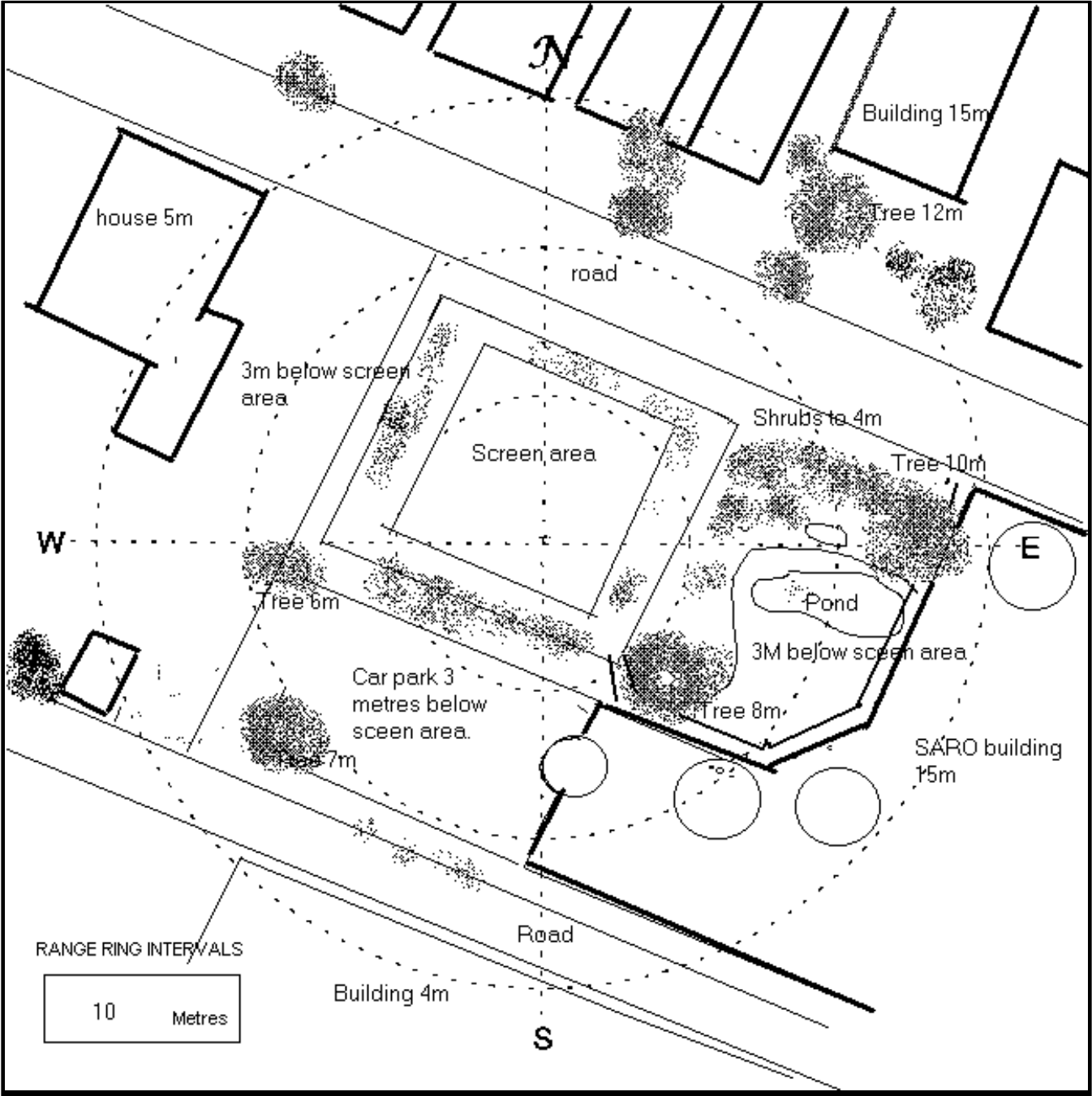
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Extended Climatological Station Metadata
All History

Station:	KENT TOWN		Location:	KENT TOWN		State:	SA
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m
						Current Status:	Closed
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
15/01/1999



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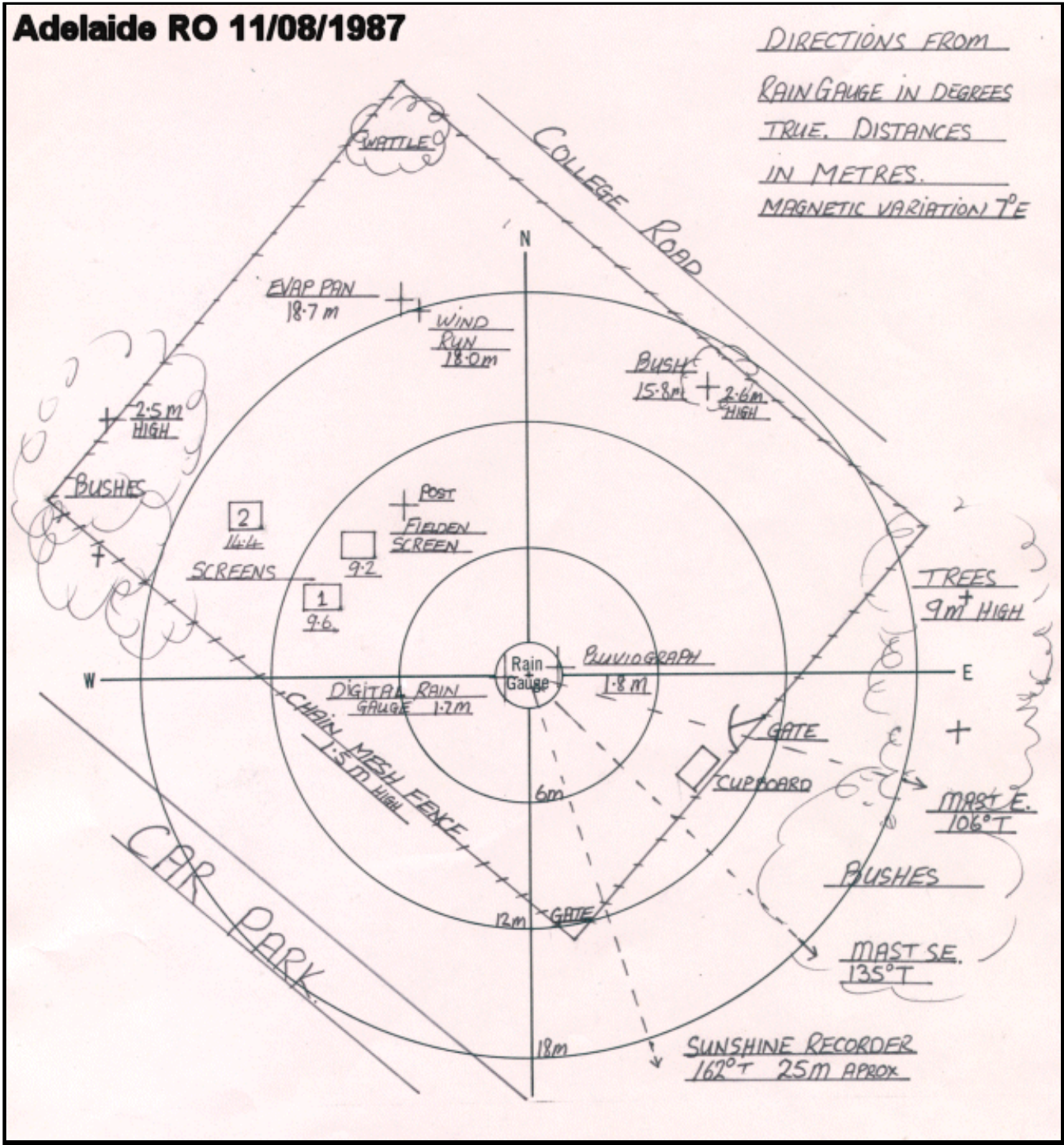
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Extended Climatological Station Metadata
All History

Station:	KENT TOWN	Location:	KENT TOWN	State:	SA
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO
Latitude:	-34.9211	Longitude:	138.6216	Opened:	01 Jan 1977
		Elevation:	48 m	Current Status:	Closed
		Barometer Elev:	51 m	Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
11/08/1987



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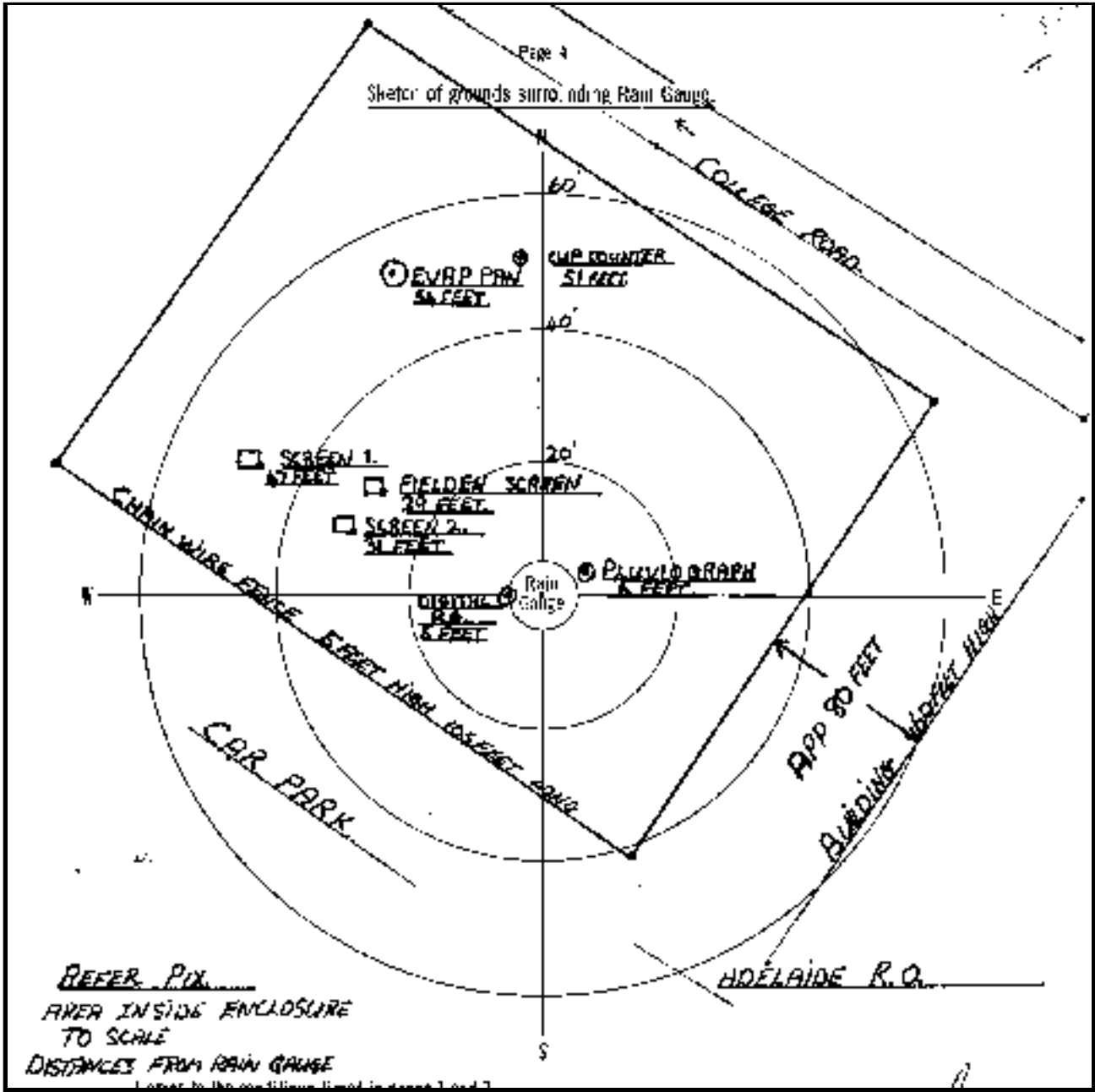
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Extended Climatological Station Metadata
All History

Station:	KENT TOWN		Location:	KENT TOWN		State:	SA
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m
						Current Status:	Closed
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
10/11/1978



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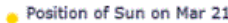
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All History

Station:	KENT TOWN			Location:	KENT TOWN			State:	SA
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977	Current Status:	Closed
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m	Metadata compiled:	28 JUL 2025

Skyline Diagram



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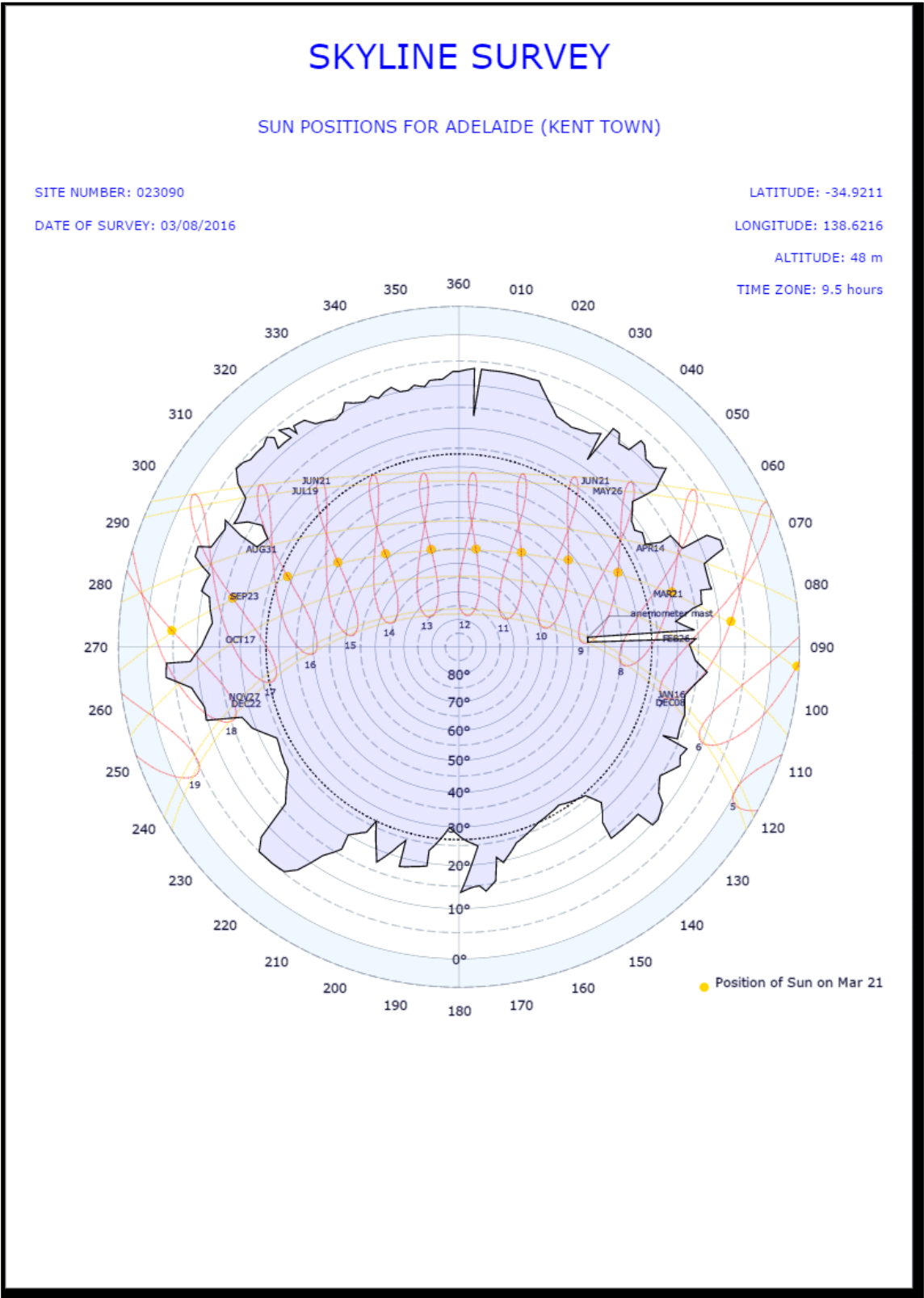
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Extended Climatological Station Metadata
All History

Station:	KENT TOWN	Location:	KENT TOWN	State:	SA
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO
Latitude:	-34.9211	Longitude:	138.6216	Opened:	01 Jan 1977
		Elevation:	48 m	Barometer Elev:	51 m
				Current Status:	Closed
				Metadata compiled:	28 JUL 2025

Skyline Diagram
03/08/2016



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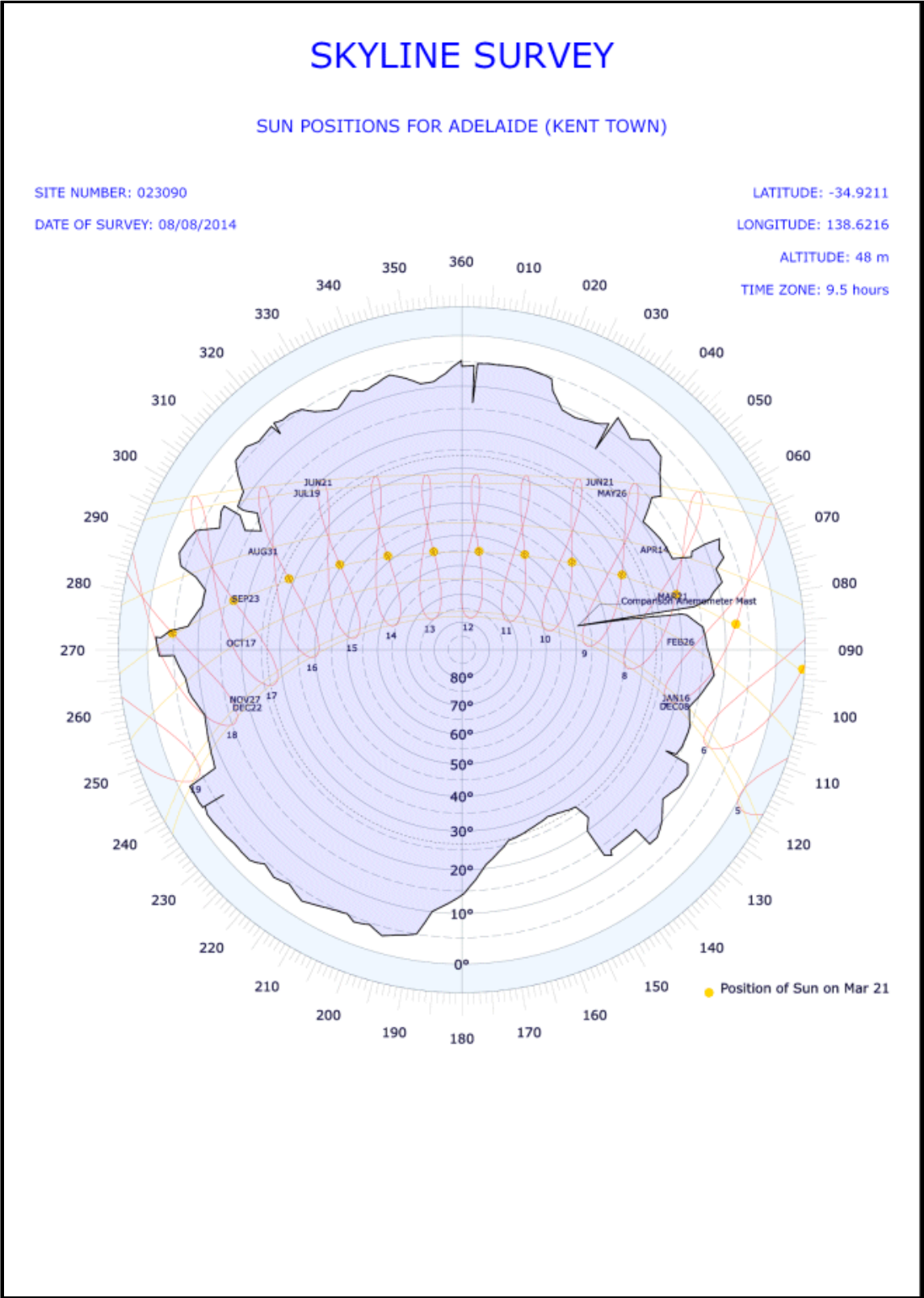
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Extended Climatological Station Metadata
All History

Station:	KENT TOWN		Location:	KENT TOWN		State:	SA
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m
						Current Status:	Closed
						Metadata compiled:	28 JUL 2025

Skyline Diagram
08/08/2014



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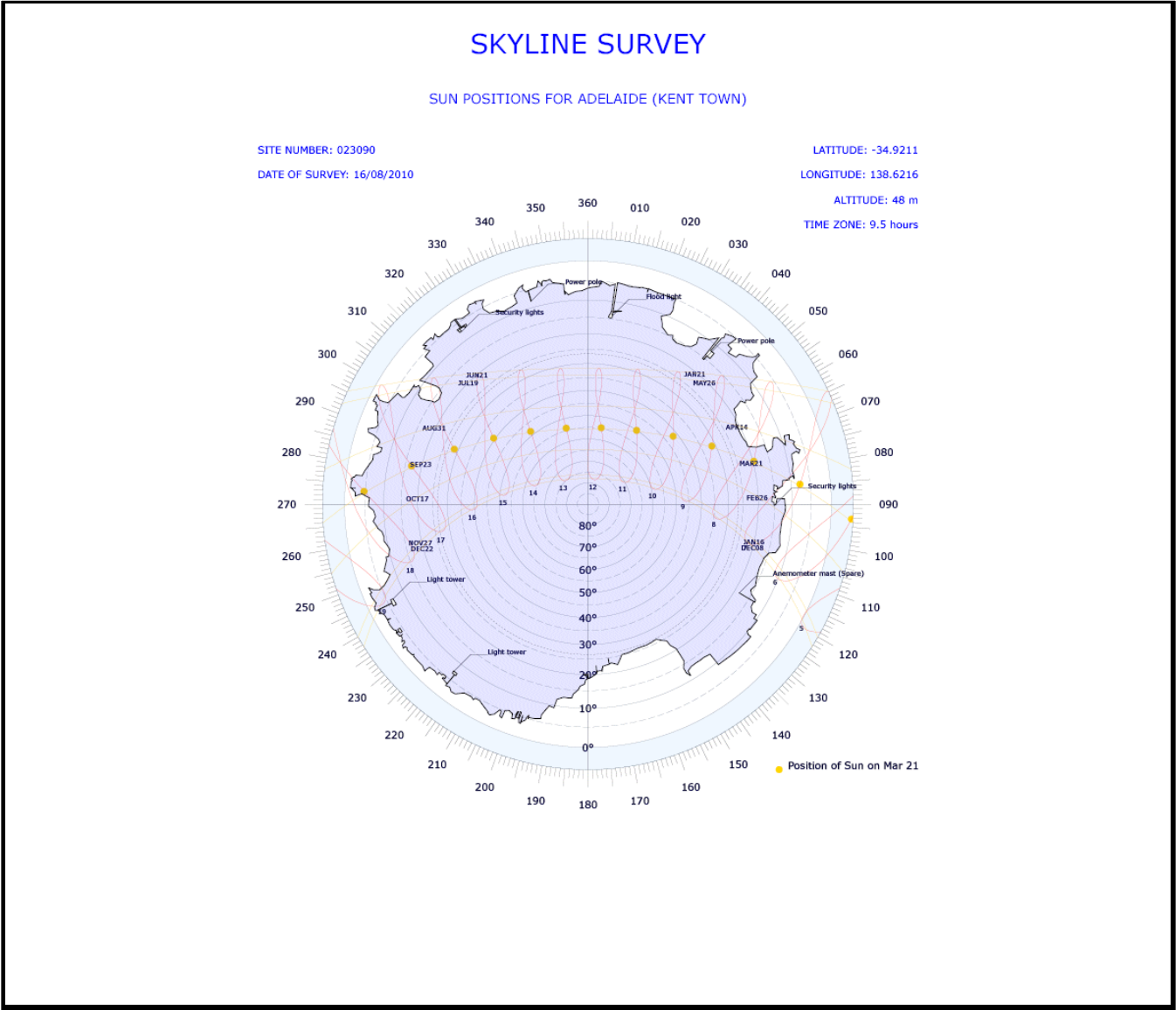
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Extended Climatological Station Metadata
All History

Station:	KENT TOWN		Location:	KENT TOWN		State:	SA
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m
						Current Status:	Closed
						Metadata compiled:	28 JUL 2025

Skyline Diagram
16/08/2010



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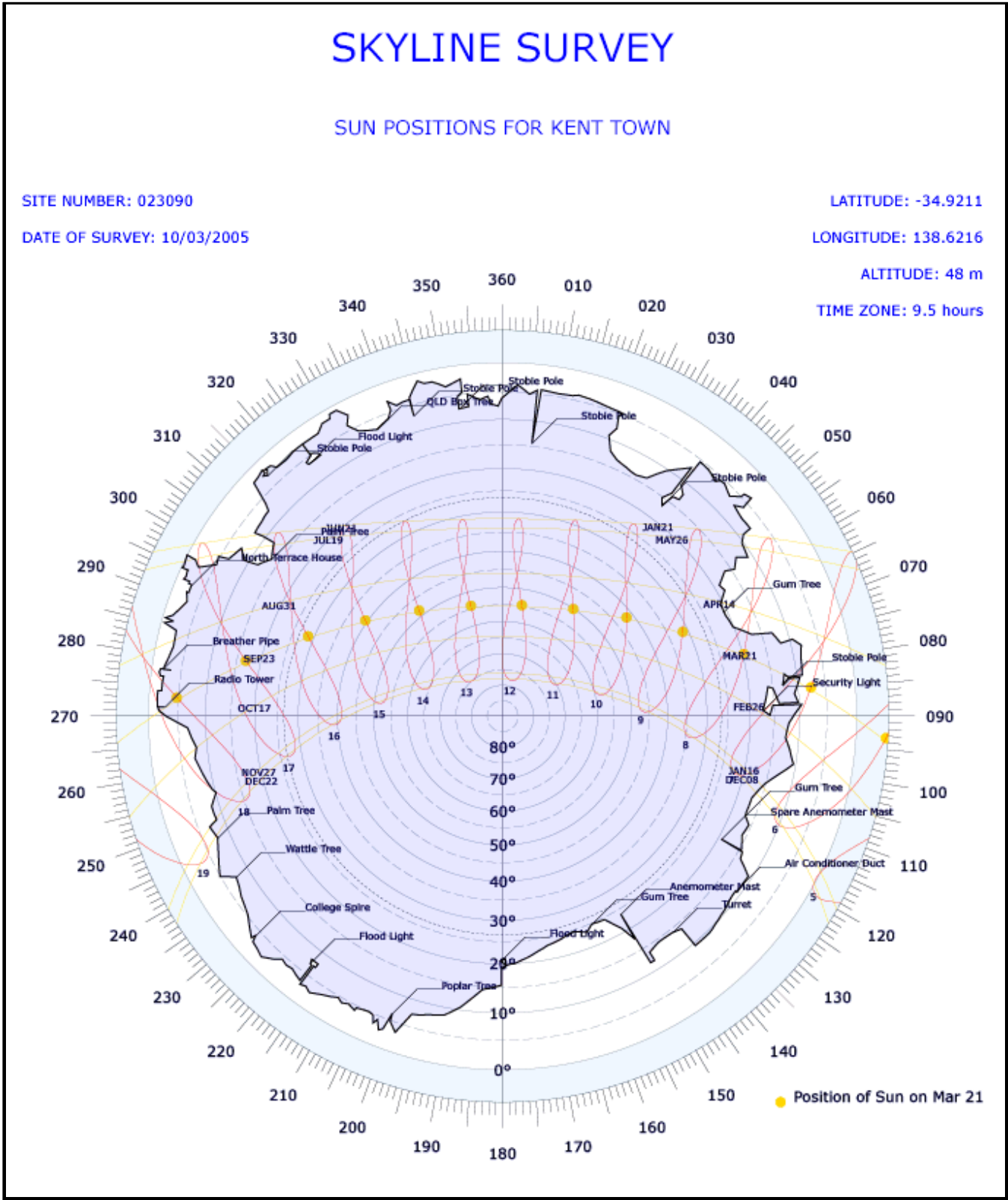
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Extended Climatological Station Metadata
All History

Station: KENT TOWN			Location: KENT TOWN			State: SA			
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977	Current Status:	Closed
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m	Metadata compiled:	28 JUL 2025

Skyline Diagram
10/03/2005



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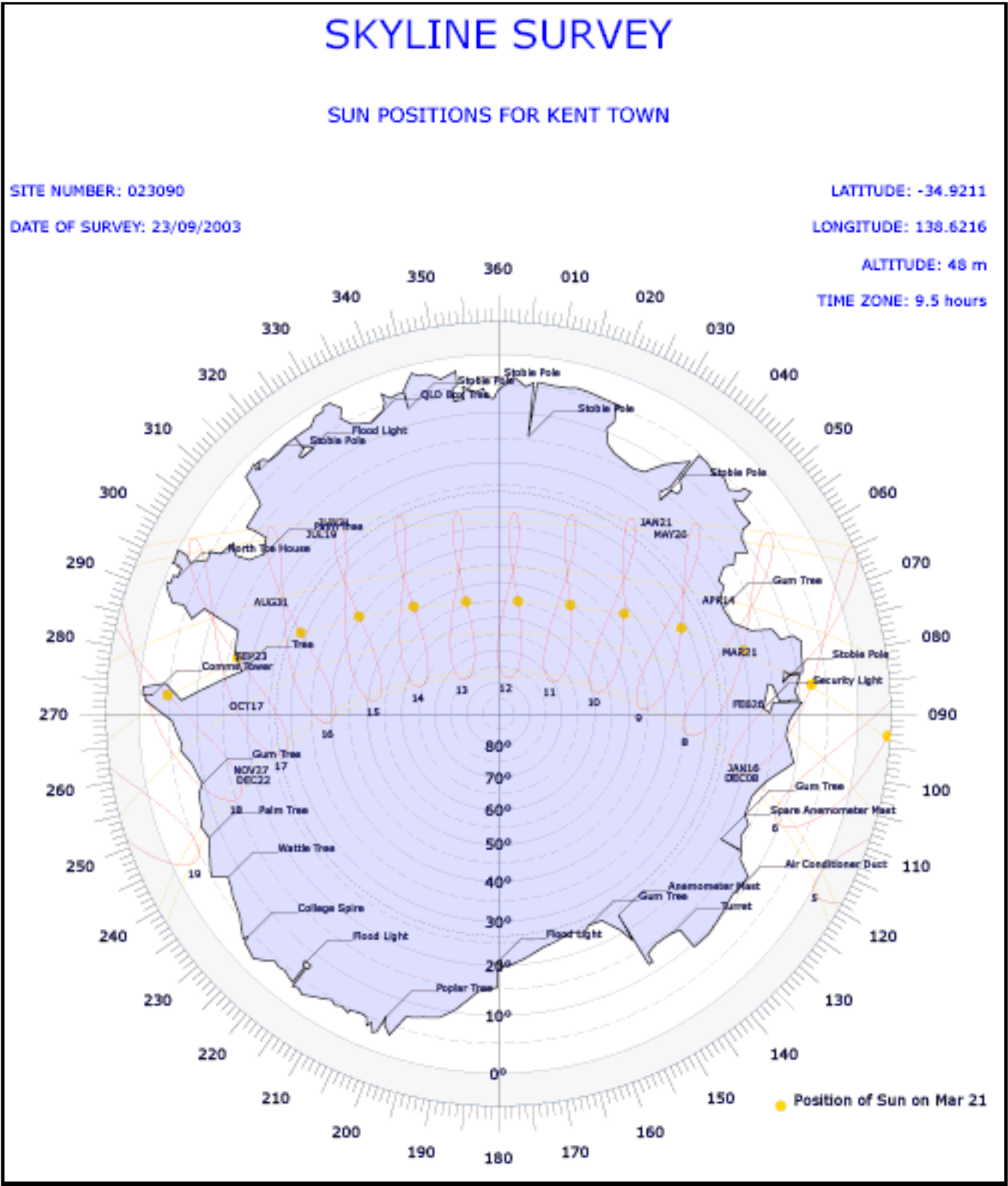
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Extended Climatological Station Metadata
All History

Station: KENT TOWN			Location: KENT TOWN			State: SA	
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m
						Metadata compiled:	28 JUL 2025

Skyline Diagram
23/09/2003



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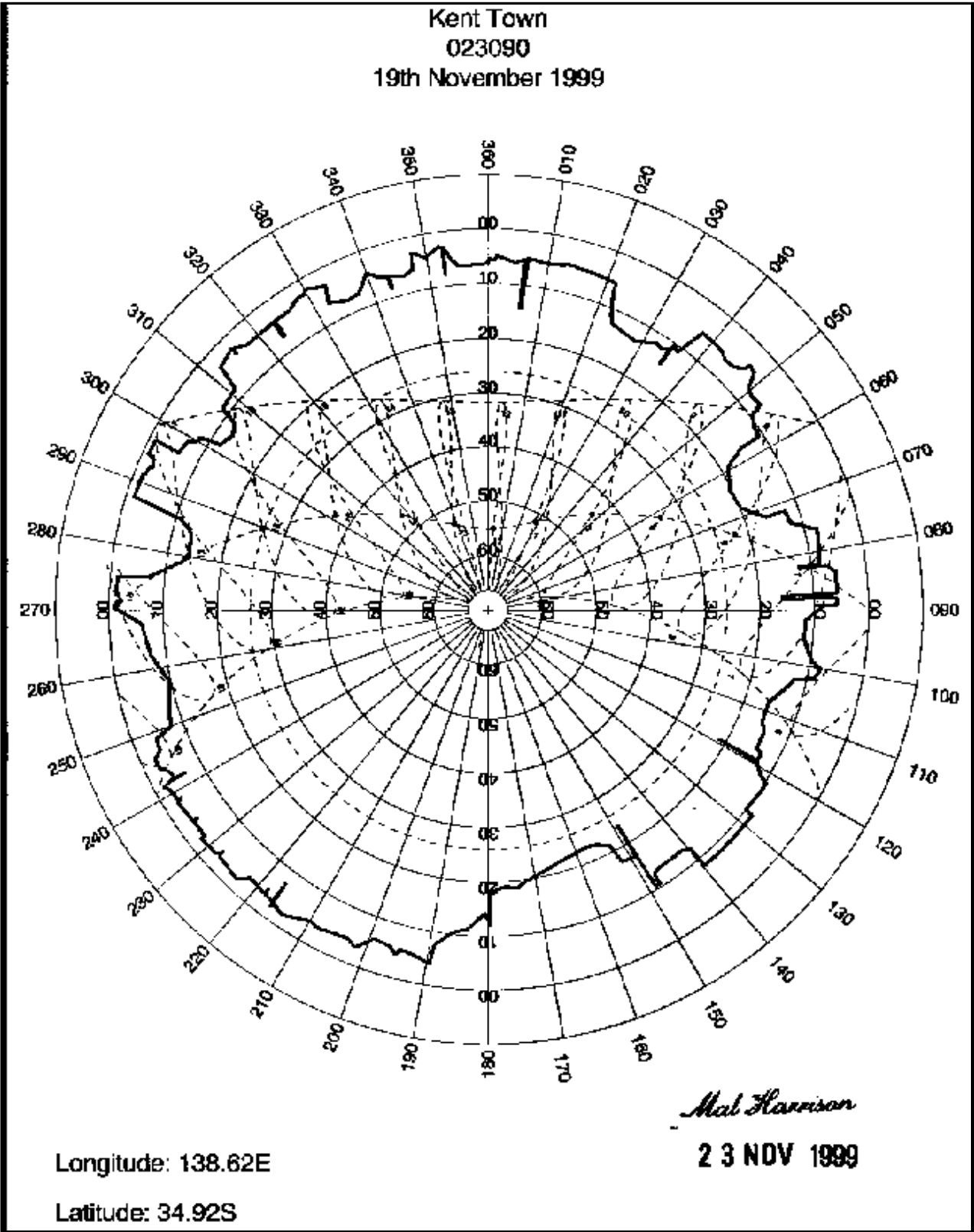
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Extended Climatological Station Metadata
All History

Station:	KENT TOWN		Location:	KENT TOWN		State:	SA
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m
						Current Status:	Closed
						Metadata compiled:	28 JUL 2025

Skyline Diagram
19/11/1999



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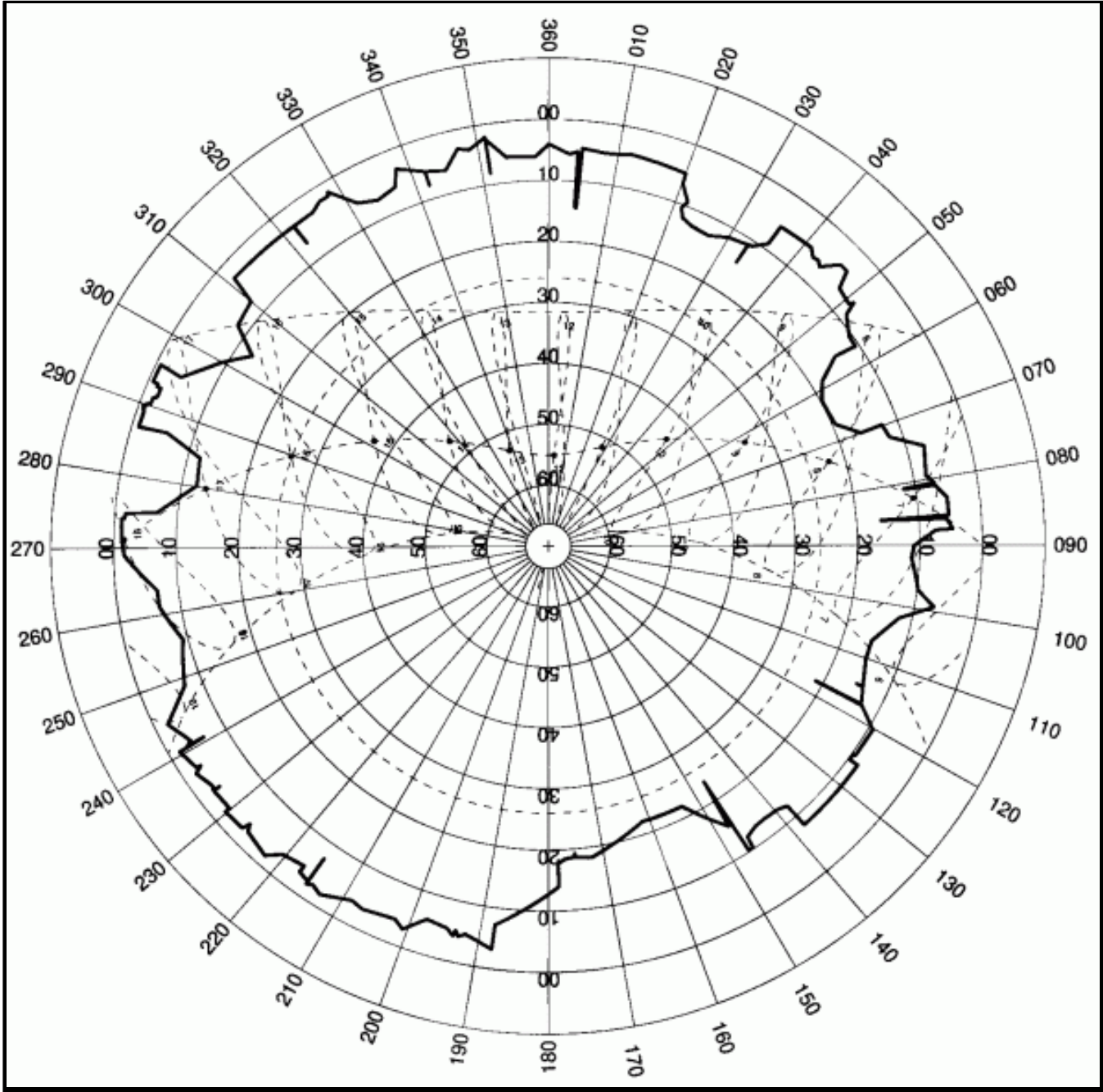
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All History

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Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m
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Skyline Diagram
15/01/1999



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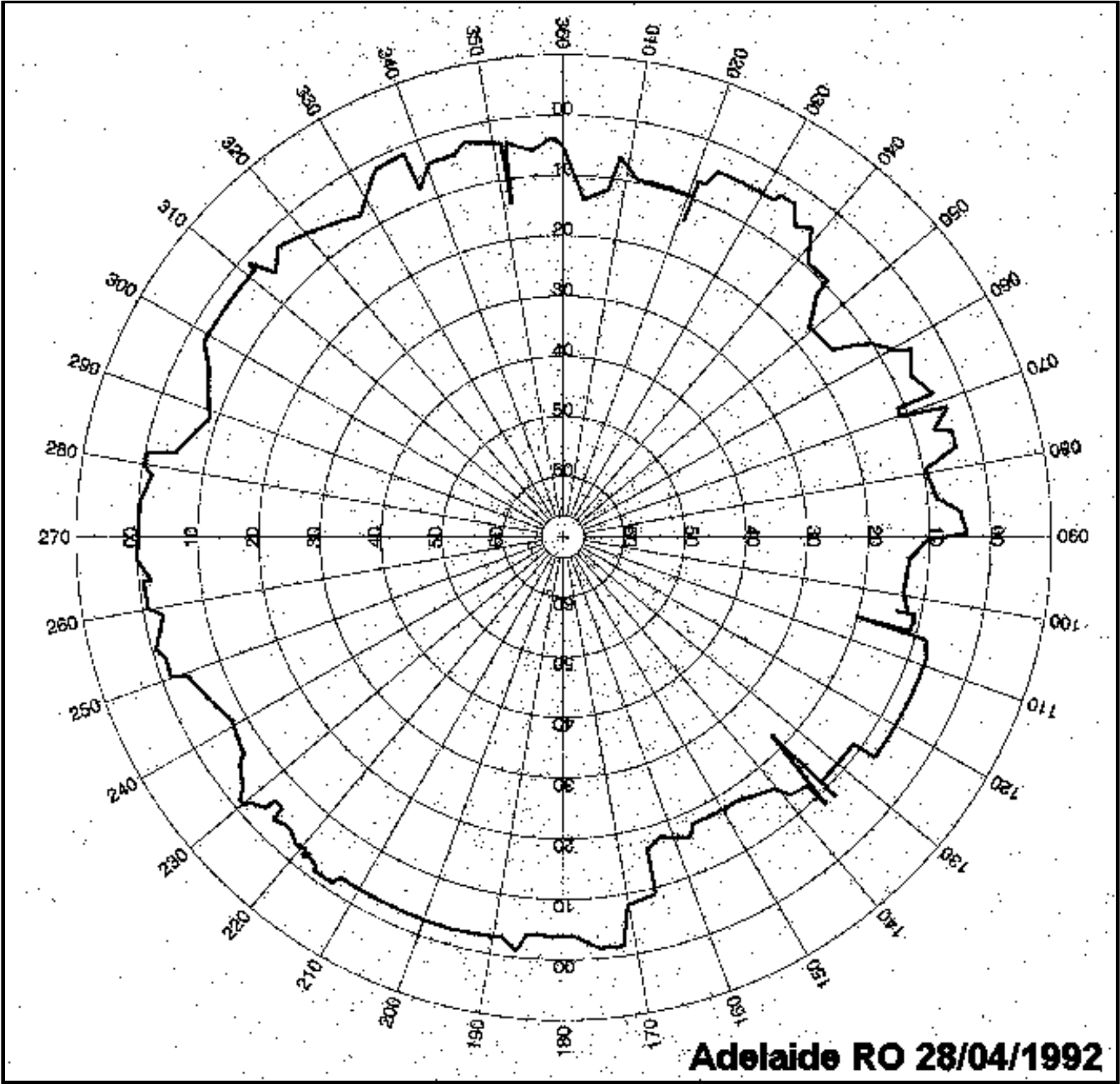
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All History

Station:	KENT TOWN		Location:	KENT TOWN		State:	SA
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Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m
						Current Status:	Closed
						Metadata compiled:	28 JUL 2025

Skyline Diagram
28/04/1992



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Extended Climatological Station Metadata
All History

Station: KENT TOWN			Location: KENT TOWN			State: SA	
Bureau No.: 023090	WMO No.: 94675	Aviation ID: ADRO	Opened: 01 Jan 1977		Current Status: Closed		
Latitude: -34.9211	Longitude: 138.6216	Elevation: 48 m	Barometer Elev: 51 m		Metadata compiled: 28 JUL 2025		

Station Observation Program Summary (Surface Observations) from 17/02/1977 to 20/04/2006

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 20/04/2006 to 29/06/2006

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 29/06/2006 to 01/03/2007

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	-	-	-	-	-	-	-	-

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Extended Climatological Station Metadata
All History

Station:	KENT TOWN		Location:	KENT TOWN		State:	SA
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m
Current Status:							Closed
Metadata compiled:							28 JUL 2025

Station Equipment History

Equipment Install/Remove

Cloud Height (No Electronic History)

Humidity

- 04/JUN/1981 INSTALL Hygrograph (Type Fielden S/N - Unknown) Surface Observations
- 26/OCT/1992 REMOVE Hygrograph (Type Fielden S/N - Unknown) Surface Observations

Pressure Trend

- 15/JAN/1999 INSTALL Barograph (Type Weekly S/N - CBM048) Surface Observations
- 12/SEP/2000 INSTALL Barograph (Type Weekly S/N - CMO258) Surface Observations
- 07/MAY/2007 REMOVE Barograph (Type Weekly S/N - CBM048) Surface Observations
- 23/SEP/2003 REMOVE Barograph (Type Weekly S/N - CMO258) Surface Observations

Lightning (No Electronic History)

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

- 17/FEB/1977 INSTALL Anemometer (Type Bendix Aerovane S/N - Unknown) Surface Observations
- 01/APR/2003 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 64466) Surface Observations
- 26/OCT/1992 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - NONE) Surface Observations
- 01/JUL/1977 INSTALL Mast Anemometer (Type Pivot, Hydraulic S/N - NONE) Infrastructure
- 19/MAR/2007 INSTALL Wind Run Anemometer (Type Synchrotac Cups - Type 732 S/N - 89473) Surface Observations
- 17/FEB/1977 INSTALL Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations
- 26/OCT/1992 REMOVE Anemometer (Type Bendix Aerovane S/N - Unknown) Surface Observations
- 11/SEP/2020 REMOVE Anemometer (Type Synchrotac Cups - Type 732 S/N - 64207) Surface Observations
- 11/SEP/2020 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - 74/571) Surface Observations
- 11/SEP/2020 REMOVE Wind Run Anemometer (Type Synchrotac Cups - Type 732 S/N - 72857) Surface Observations
- 15/MAY/1999 REMOVE Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations
- 16/APR/2015 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 64207) Surface Observations
- 13/FEB/2012 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 76365) Surface Observations
- 01/APR/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 69045) Surface Observations
- 16/APR/2015 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 74/571) Surface Observations
- 13/FEB/2012 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 76469) Surface Observations
- 01/APR/2003 REPLACE Mast Anemometer (Now Pivot, Standard 10m S/N - Unknown) Infrastructure
- 16/APR/2015 REPLACE Mast Anemometer (Now Pivot, Standard 8m S/N - NONE) Infrastructure
- 03/DEC/2015 REPLACE Wind Run Anemometer (Now Synchrotac Cups - Type 732 S/N - 72857) Surface Observations

Wet Bulb Temperature

- 26/OCT/1992 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - NONE) Surface Observations
- 11/SEP/2020 REMOVE Temperature Probe - Wet Bulb (Type Rosemount ST2401 S/N - 0508) Surface Observations
- 15/OCT/2003 REPLACE Temperature Probe - Wet Bulb (Now Rosemount ST2401 S/N - 0508) Surface Observations
- 17/FEB/1977 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - M1212) Surface Observations
- 01/MAR/2007 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 2884) Surface Observations
- 12/SEP/2000 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 15872) Surface Observations
- 05/JUN/2003 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 2823/16809) Surface Observations
- 10/OCT/2006 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - 2884) Surface Observations
- 21/AUG/2002 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M1846) Surface Observations
- 22/AUG/2001 REPLACE Thermometer, Mercury, Wet Bulb (Now Dobbie S/N - M3913) Surface Observations

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Extended Climatological Station Metadata
All History

Station:	KENT TOWN		Location:	KENT TOWN		State:	SA
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m
Current Status:							Closed
Metadata compiled:							28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

17/FEB/1977 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - 15435) Surface Observations
01/MAR/2007 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - 23507) Surface Observations
08/OCT/2003 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 14722) Surface Observations
24/DEC/2002 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 17352) Surface Observations
21/SEP/2005 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - 23507) Surface Observations

Soil Temperature 10cm

19/MAR/2007 INSTALL Temperature Probe - 10cm (Type Temp Control, Buried S/N - 0206) Surface Observations
11/SEP/2020 REMOVE Temperature Probe - 10cm (Type Temp Control, Buried S/N - 0206) Surface Observations
15/MAR/1993 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - M2256) Surface Observations
16/MAR/2007 REMOVE Thermometer, Soil, 10cm (Type Dobros S/N - 96909817) Surface Observations
12/SEP/2000 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - 96909817) Surface Observations

Soil Temperature 20cm

19/MAR/2007 INSTALL Temperature Probe - 20cm (Type Temp Control, Buried S/N - 0180) Surface Observations
11/SEP/2020 REMOVE Temperature Probe - 20cm (Type Temp Control, Buried S/N - 0180) Surface Observations
15/MAR/1993 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - 9566399) Surface Observations
16/MAR/2007 REMOVE Thermometer, Soil, 20cm (Type Dobros S/N - M6750) Surface Observations
14/AUG/2002 REPLACE Thermometer, Soil, 20cm (Now Dobros S/N - M6750) Surface Observations

Soil Temperature 50cm

19/MAR/2007 INSTALL Temperature Probe - 50cm (Type Temp Control S/N - 0196) Surface Observations
11/SEP/2020 REMOVE Temperature Probe - 50cm (Type Temp Control S/N - 347) Surface Observations
24/NOV/2015 REPLACE Temperature Probe - 50cm (Now Temp Control S/N - 347) Surface Observations
15/MAR/1993 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - M2237) Surface Observations
16/MAR/2007 REMOVE Thermometer, Soil, 50cm (Type Dobros S/N - M6759) Surface Observations
22/AUG/2001 REPLACE Thermometer, Soil, 50cm (Now Dobros S/N - 415492) Surface Observations
14/AUG/2002 REPLACE Thermometer, Soil, 50cm (Now Dobros S/N - M2237) Surface Observations
23/DEC/2002 REPLACE Thermometer, Soil, 50cm (Now Dobros S/N - M5169) Surface Observations
10/DEC/2003 REPLACE Thermometer, Soil, 50cm (Now Dobros S/N - M6759) Surface Observations

Snow Height (No Electronic History)

Soil Temperature 100cm

19/MAR/2007 INSTALL Temperature Probe - 100cm (Type Temp Control S/N - 0214) Surface Observations
11/SEP/2020 REMOVE Temperature Probe - 100cm (Type Temp Control S/N - 0214) Surface Observations
15/MAR/1993 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - 9564483) Surface Observations
16/MAR/2007 REMOVE Thermometer, Soil, 100cm (Type Dobros S/N - M6600) Surface Observations
22/AUG/2001 REPLACE Thermometer, Soil, 100cm (Now Dobros S/N - 9566057) Surface Observations
15/DEC/2003 REPLACE Thermometer, Soil, 100cm (Now Dobros S/N - M6600) Surface Observations

Sunshine Hours

17/FEB/1977 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - CBM005) Surface Observations
18/JUN/2015 REMOVE Sunshine Recorder (Type Campbell-Stokes S/N - CBM005) Surface Observations

Wind Run

19/MAR/2007 INSTALL Wind Run Anemometer (Type Synchrotac Cups - Type 732 S/N - 89473) Surface Observations

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Extended Climatological Station Metadata
All History

Station: KENT TOWN			Location: KENT TOWN			State: SA			
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977	Current Status:	Closed
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m	Metadata compiled:	28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

17/FEB/1977 INSTALL Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations
11/SEP/2020 REMOVE Wind Run Anemometer (Type Synchrotac Cups - Type 732 S/N - 72857) Surface Observations
15/MAY/1999 REMOVE Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations
03/DEC/2015 REPLACE Wind Run Anemometer (Now Synchrotac Cups - Type 732 S/N - 72857) Surface Observations

Minimum Temperature

17/NOV/2003 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - 23208) Surface Observations
17/FEB/1977 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - M3505) Surface Observations
01/MAR/2007 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - 27674) Surface Observations
15/NOV/2003 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - M3600) Surface Observations
12/SEP/2000 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 19261) Surface Observations
14/AUG/2002 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 20677) Surface Observations
09/NOV/2004 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 24259) Surface Observations
17/NOV/2006 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 27674) Surface Observations
01/OCT/2003 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - M3600) Surface Observations

Terrestrial Minimum Temperature

19/MAR/2007 INSTALL Temperature Probe - Grass (Type Temp Control, Surface S/N - 0063) Surface Observations
11/SEP/2020 REMOVE Temperature Probe - Grass (Type Temp Control, Surface S/N - 0063) Surface Observations
17/FEB/1977 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - 13234) Surface Observations
16/MAR/2007 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - 27615) Surface Observations
03/MAY/2002 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 13284) Surface Observations
07/DEC/1998 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 17033) Surface Observations
30/MAR/2000 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19278) Surface Observations
27/SEP/2001 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 20677) Surface Observations
10/JUL/2001 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 20691) Surface Observations
07/FEB/2007 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 21926) Surface Observations
15/JUN/2005 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 21926) Surface Observations
23/SEP/2003 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 22108) Surface Observations
06/MAR/2006 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 25917) Surface Observations
09/MAR/2007 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 27615) Surface Observations
15/NOV/2003 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M3600) Surface Observations
13/SEP/1998 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - S6620) Surface Observations
21/DEC/2006 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 27615) Surface Observations

Visibility (No Electronic History)

Soil Temperature 5cm

19/MAR/2007 INSTALL Temperature Probe - 5cm (Type Temp Control, Buried S/N - 0244) Surface Observations
11/SEP/2020 REMOVE Temperature Probe - 5cm (Type Temp Control, Buried S/N - 0244) Surface Observations

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Oxygen Content (No Electronic History)

RF Reflectivity (No Electronic History)

Total Column Ozone Amount (No Electronic History)

Pressure

17/FEB/1977 INSTALL Barometer (Type Kew pattern mercury S/N - 1813) Surface Observations

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Extended Climatological Station Metadata
All History

Station:	KENT TOWN		Location:	KENT TOWN		State:	SA
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m
Current Status:							Closed
Metadata compiled:							28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

26/OCT/1992 INSTALL Barometer (Type Vaisala PA11A S/N - 458195) Surface Observations
01/DEC/1996 REMOVE Barometer (Type Vaisala PA11 S/N - 136585) Surface Observations
11/SEP/2020 REMOVE Barometer (Type Vaisala PTB330B (General Use) S/N - J3750020) Surface Observations
01/DEC/1980 REPLACE Barometer (Now Kew pattern mercury S/N - 1930) Surface Observations
21/SEP/1990 REPLACE Barometer (Now Vaisala PA11 S/N - 136585) Surface Observations
21/FEB/1994 REPLACE Barometer (Now Vaisala PA11A S/N - 561158) Surface Observations
05/APR/2005 REPLACE Barometer (Now Vaisala PTB220B S/N - V0440029) Surface Observations
04/DEC/2013 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - J3750020) Surface Observations

Evaporation

18/DEC/2003 INSTALL Evaporation Pan (Type Class A S/N - NONE) Surface Observations
17/FEB/1977 INSTALL Evaporation Pan (Type Class A S/N - NONE) Surface Observations
02/AUG/2006 REMOVE Evaporation Pan (Type Class A S/N - NONE) Surface Observations
18/JUN/2015 REMOVE Evaporation Pan (Type Class A S/N - NONE) Surface Observations
30/AUG/2006 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations
17/JUN/2011 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations

Rainfall

01/FEB/1977 INSTALL Pluviograph (Type Dines syphoning S/N - NONE) Rainfall Intensity
26/JUN/2009 REMOVE Pluviograph (Type Dines syphoning S/N - NONE) Rainfall Intensity
17/FEB/1977 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
18/OCT/2013 INSTALL Raingauge (Type HS-TB3/0.2/P S/N - 00015) Rainfall Intensity
26/OCT/1992 INSTALL Raingauge (Type Unknown S/N - Unknown) Surface Observations
18/JUN/2015 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
03/DEC/2014 REMOVE Raingauge (Type HS-TB3/0.2/P S/N - 00015) Rainfall Intensity
11/DEC/2018 REMOVE Raingauge (Type Rimco 7499 TBRG S/N - 0509) Rainfall Intensity
11/SEP/2020 REMOVE Raingauge (Type Rimco 7499 TBRG S/N - 0509) Surface Observations
15/MAR/2010 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 0509) Rainfall Intensity
15/MAR/2010 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 0509) Surface Observations
01/JUN/2009 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 497) Rainfall Intensity
01/JUN/2009 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 497) Surface Observations
02/MAR/2006 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 81150) Rainfall Intensity
02/MAR/2006 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 81150) Surface Observations
31/MAR/2003 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 81169) Rainfall Intensity
31/MAR/2003 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 81169) Surface Observations
04/MAR/1998 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - CBM274) Rainfall Intensity
04/MAR/1998 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - CBM274) Surface Observations
02/MAY/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 78056) Rainfall Intensity
02/MAY/2000 REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 78056) Surface Observations
26/MAR/1996 SHARE Raingauge (Type Rimco 7499 TBRG S/N - 0509) Rainfall Intensity
26/MAR/1996 SHARE Raingauge (Type Rimco 7499 TBRG S/N - 497) Rainfall Intensity
26/MAR/1996 SHARE Raingauge (Type Rimco 7499 TBRG S/N - 81150) Rainfall Intensity
26/MAR/1996 SHARE Raingauge (Type Rimco 7499 TBRG S/N - 81169) Rainfall Intensity
26/MAR/1996 SHARE Raingauge (Type Rimco 7499 TBRG S/N - CBM274) Rainfall Intensity
26/MAR/1996 SHARE Raingauge (Type Rimco 8020 TBRG S/N - 78056) Rainfall Intensity

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Extended Climatological Station Metadata
All History

Station:	KENT TOWN		Location:	KENT TOWN		State:	SA
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m
Current Status:							Closed
Metadata compiled:							28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

26/MAR/1996 SHARE Raingauge (Type Unknown S/N - Unknown) Rainfall Intensity

River Height (No Electronic History)

Solar Radiation (No Electronic History)

Solar Radiation (Direct) (No Electronic History)

Turbidity (No Electronic History)

Sea Water Level (No Electronic History)

Sea Water Temperature (No Electronic History)

Wind Speed

- 17/FEB/1977 INSTALL Anemometer (Type Bendix Aerovane S/N - Unknown) Surface Observations
- 01/APR/2003 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 64466) Surface Observations
- 26/OCT/1992 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - NONE) Surface Observations
- 01/JUL/1977 INSTALL Mast Anemometer (Type Pivot, Hydraulic S/N - NONE) Infrastructure
- 19/MAR/2007 INSTALL Wind Run Anemometer (Type Synchrotac Cups - Type 732 S/N - 89473) Surface Observations
- 17/FEB/1977 INSTALL Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations
- 26/OCT/1992 REMOVE Anemometer (Type Bendix Aerovane S/N - Unknown) Surface Observations
- 11/SEP/2020 REMOVE Anemometer (Type Synchrotac Cups - Type 732 S/N - 64207) Surface Observations
- 11/SEP/2020 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - 74/571) Surface Observations
- 11/SEP/2020 REMOVE Wind Run Anemometer (Type Synchrotac Cups - Type 732 S/N - 72857) Surface Observations
- 15/MAY/1999 REMOVE Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations
- 16/APR/2015 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 64207) Surface Observations
- 13/FEB/2012 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 76365) Surface Observations
- 01/APR/2003 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 69045) Surface Observations
- 16/APR/2015 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 74/571) Surface Observations
- 13/FEB/2012 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 76469) Surface Observations
- 01/APR/2003 REPLACE Mast Anemometer (Now Pivot, Standard 10m S/N - Unknown) Infrastructure
- 16/APR/2015 REPLACE Mast Anemometer (Now Pivot, Standard 8m S/N - NONE) Infrastructure
- 03/DEC/2015 REPLACE Wind Run Anemometer (Now Synchrotac Cups - Type 732 S/N - 72857) Surface Observations

Air Temperature

- 26/OCT/1992 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - NONE) Surface Observations
- 11/SEP/2020 REMOVE Temperature Probe - Dry Bulb (Type Rosemount ST2401 S/N - 0626) Surface Observations
- 15/OCT/2003 REPLACE Temperature Probe - Dry Bulb (Now Rosemount ST2401 S/N - 0626) Surface Observations
- 04/JUN/1981 INSTALL Thermograph (Type Fielden S/N - Unknown) Surface Observations
- 26/OCT/1992 REMOVE Thermograph (Type Fielden S/N - Unknown) Surface Observations
- 17/FEB/1977 INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - M0809) Surface Observations
- 01/MAR/2007 REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 12893) Surface Observations
- 05/JUN/2003 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 12893) Surface Observations
- 14/AUG/2002 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 15872) Surface Observations
- 15/JAN/1999 REPLACE Thermometer, Mercury, Dry Bulb (Now Dobbie S/N - 15935) Surface Observations

Surface Inclination (No Electronic History)

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Extended Climatological Station Metadata
All History

Station: KENT TOWN			Location: KENT TOWN			State: SA			
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977	Current Status:	Closed
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m	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
11/NOV/1999 - 10/OCT/2006	Pressure Trend	0
18/JUL/1996 - 04/AUG/2020	Wind Direction	1
26/AUG/1994 - 31/JUL/2020	Wet Bulb Temperature	4
15/JAN/1999 - 10/OCT/2006	Maximum Temperature	0
15/JAN/1999 - 10/OCT/2006	Soil Temperature 10cm	0
15/JAN/1999 - 10/OCT/2006	Soil Temperature 20cm	0
15/JAN/1999 - 10/OCT/2006	Soil Temperature 50cm	0
15/JAN/1999 - 10/OCT/2006	Soil Temperature 100cm	0
15/JAN/1999 - 04/AUG/2020	Wind Run	0
15/JAN/1999 - 10/OCT/2006	Minimum Temperature	0
15/JAN/1999 - 10/OCT/2006	Terrestrial Minimum Temperature	0
01/DEC/1980 - 31/JUL/2020	Pressure	2
12/SEP/2000 - 08/AUG/2014	Evaporation	0
26/AUG/1994 - 04/AUG/2020	Rainfall	17
18/JUL/1996 - 04/AUG/2020	Wind Speed	1
26/AUG/1994 - 31/JUL/2020	Air Temperature	2

Station Detail Changes

01/FEB/2021	CLASSIFICATION AWS Priority 3 - Standard (SLP3-AWS)
01/JUL/2011	CLASSIFICATION Australian Climate Observations Reference Network - Surface Air Temperature (ACORN-SAT) ENDED 31-07-2020
10/APR/2014	CLASSIFICATION CLIMAT Stations (CLC)
26/OCT/1992	CLASSIFICATION Fielden (FFD)
01/JUL/2018	CLASSIFICATION HQ EVAPORATION (HQEVAP)
10/JAN/2011	CLASSIFICATION Important (ASOSIMP)
21/MAR/2016	CLASSIFICATION NOT Processed by ASOS (NPBA)
01/JUL/2017	CLASSIFICATION Observing Operations Hub - Adelaide (OOH-A)
01/JUL/1998	CLASSIFICATION Regional Forecasting Centres (RFC)
01/JUL/1998	CLASSIFICATION Surface Observations only (SO)
25/NOV/2011	OBJECT Document/023090111125_Email
28/FEB/2007	OBJECT Document/023909070228email
05/AUG/2019	OBJECT Document/ADRO Mast Inspection 050819
29/MAY/2015	OBJECT Document/AWS SITE AUDIT
18/JUL/2006	OBJECT Document/BAROMETER COEFFICIENTS
16/AUG/2010	OBJECT Document/SKYLINE DATA
03/AUG/2016	OBJECT Document/SKYLINE DATA
04/AUG/2020	OBJECT Document/SKYLINE DATA
23/SEP/2003	OBJECT Document/SKYLINE DATA

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All History

Station: KENT TOWN			Location: KENT TOWN			State: SA			
Bureau No.:	023090	WMO No.:	94675	Aviation ID:	ADRO	Opened:	01 Jan 1977	Current Status:	Closed
Latitude:	-34.9211	Longitude:	138.6216	Elevation:	48 m	Barometer Elev:	51 m	Metadata compiled:	28 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

10/MAR/2005 OBJECT Document/SKYLINE DATA
21/FEB/2011 OBJECT Document/metconsole_stationconfig_023090110221
01/JAN/1977 STATION - (nondb seeding) Opened
01/JAN/1977 STATION - (nondb seeding) stn_ht Changed to 48
01/JAN/1977 STATION - (nondb seeding) stn_ht_deriv Changed to MAP 1:50 000
01/JAN/1977 STATION - (nondb seeding) wmo_num Changed to 94675
31/JUL/2020 STATION Closed
01/JAN/1977 STATION aviation_id Changed to ADRO
01/JAN/1977 STATION bar_ht Changed to 51
01/JAN/1977 STATION bar_ht_deriv Changed to SURVEY
01/JAN/1977 STATION latitude Changed to -34.92109Seeded from NonDb
01/JAN/1977 STATION latlon_deriv Changed to GPS
01/JAN/1977 STATION latlon_error Changed to 5
01/JAN/1977 STATION longitude Changed to 138.62157Seeded from NonDb
01/JAN/1977 STATION lu_0_100m Changed to City area, buildings > 10 metres (3 storey)
01/JAN/1977 STATION lu_100m_1km Changed to City area, buildings > 10 metres (3 storey)
01/JAN/1977 STATION lu_1km_10km Changed to City area, buildings > 10 metres (3 storey)
01/JAN/1977 STATION name Changed to KENT TOWN
01/JAN/1977 STATION soil_type Changed to clay
01/JAN/1977 STATION surface_type Changed to fully covered by grass

System Changes

01/JUL/1977 SYSTEM Infrastructure Commenced
11/DEC/2018 SYSTEM Rainfall Intensity Ceased
01/FEB/1977 SYSTEM Rainfall Intensity Commenced
17/FEB/1977 SYSTEM Surface Observations Commenced

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Notes on these metadata

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

Reliability of the metadata

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

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

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

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

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

Station Number

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

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

Historical metadata for this site has been quality controlled for accuracy and completeness against available source information. However, users should be aware of the possible unavailability of confident source data and as such this site-specific metadata should be considered accordingly. Information may not be complete, as backfilling of historical data is incomplete.

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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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