



# Basic Climatological Station Metadata

Current status

Metadata compiled: 28 JUL 2025

Station: HORSHAM POLKEMMET RD

Bureau of Meteorology station number: 079023

Bureau of Meteorology district name: South Wimmera

State: VIC

World Meteorological Organization number: ?

Identification: NO ID

Network Classification:

Station purpose: Synoptic

Automatic Weather Station:



Current Station Location				
Latitude	Decimal	-36.6613	Hour Min Sec	36°39'41"S
Longitude	Decimal	142.0687	Hour Min Sec	142°4'7"E
Station Height	128 m	Barometer Height		
Method of station geographic positioning			GPS	

Year opened: 1873

Status: Closed

## Station summary

No summary for this site has been written as yet.

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

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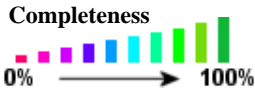
Basic Climatological Station Metadata  
Current status

Station:	HORSHAM POLKEMMET RD	Location:	HORSHAM POLKEMMET RD	State:	VIC
Bureau No.:	079023	WMO No.:	?	Aviation ID:	NO ID
Latitude:	-36.6613	Longitude:	142.0687	Opened:	03 Sep 1873
		Elevation:	128 m	Current Status:	Closed
		Barometer Elev:		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
GROUND MINIMUM TEMPERATURE	MAR 1988	MAR 1988	3.2	30	0
MAXIMUM AIR TEMPERATURE	JAN 1957	APR 2012	98.1	152	7
WIND RUN BELOW 10 FEET	AUG 1990	DEC 1990	1.2	60	3
RAINFALL	SEP 1873	AUG 2015	95	N/A	N/A

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 1957	APR 2012	99.1	2.7	43	0
DEW POINT	JAN 1957	APR 2012	56.8	3.1	38	281
SOIL TEMPERATURE - 10cm	MAR 1987	APR 1990	.3	1.0	118	34
TOTAL CLOUD AMOUNT	JAN 1957	APR 2012	98.2	2.7	72	0
WIND SPEED	JAN 1957	APR 2012	98.2	2.7	56	6

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## Current status

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<b>Bureau No.:</b> 079023	<b>WMO No.:</b> ?	<b>Aviation ID:</b> NO ID	<b>Opened:</b> 03 Sep 1873	<b>Current Status:</b> Closed	
<b>Latitude:</b> -36.6613	<b>Longitude:</b> 142.0687	<b>Elevation:</b> 128 m	<b>Barometer Elev:</b>	<b>Metadata compiled:</b> 28 JUL 2025	

## RAINFALL INTENSITY DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	SINGLE DAYS MISSED	FULL MONTHS MISSED
RAINFALL INTENSITY	FEB 1998	MAY 2018	71.6	978	37
1	1	1	2		
8	9	9			
5	0	5			
0	0	0			

## THERE ARE NO ONE-MINUTE DATA HOLDINGS

## THERE ARE NO HALF-HOURLY DATA HOLDINGS

**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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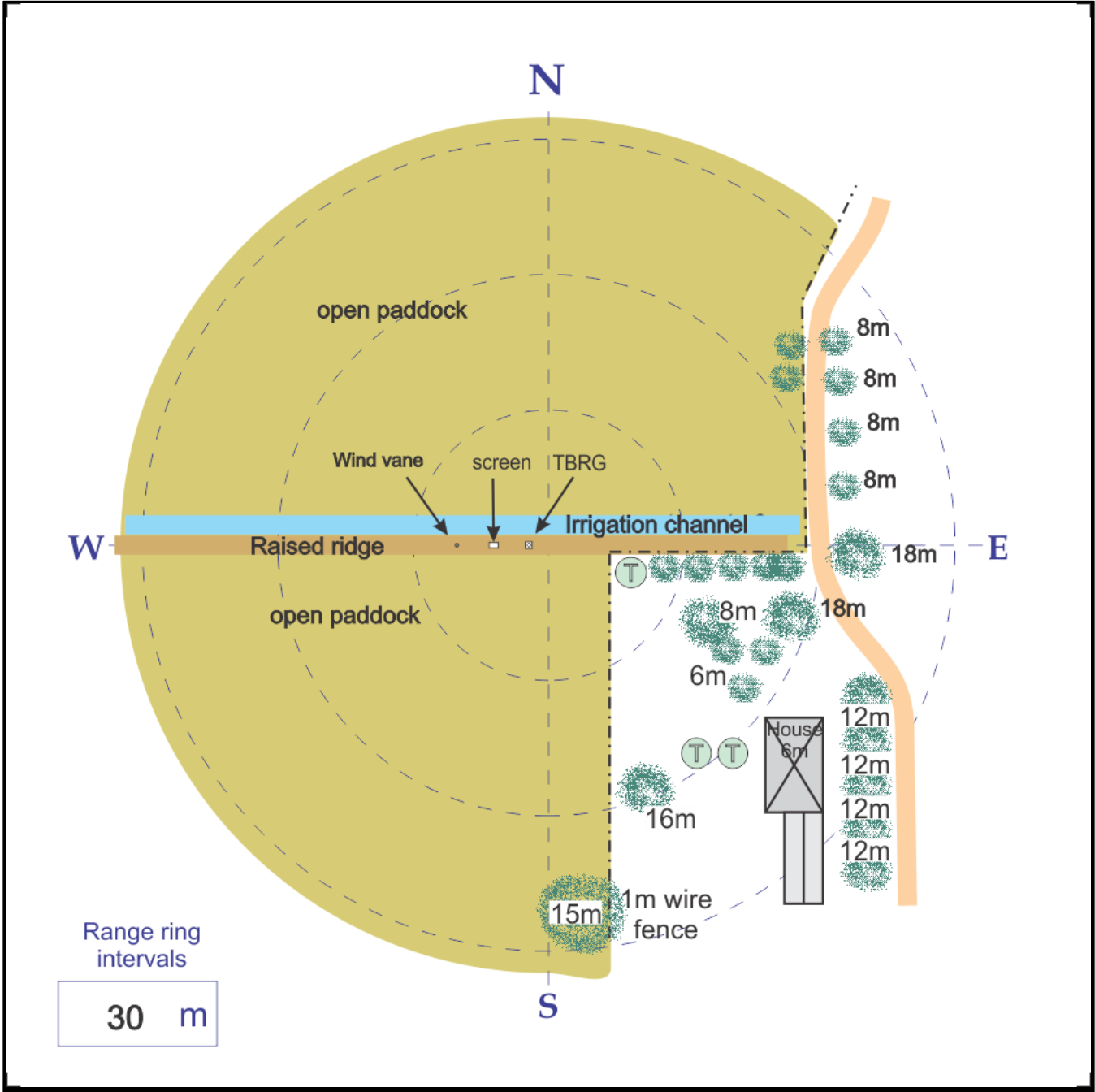
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Extended Climatological Station Metadata  
All History

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Instrument Location and Surrounding Features  
07/08/2014(most recent)



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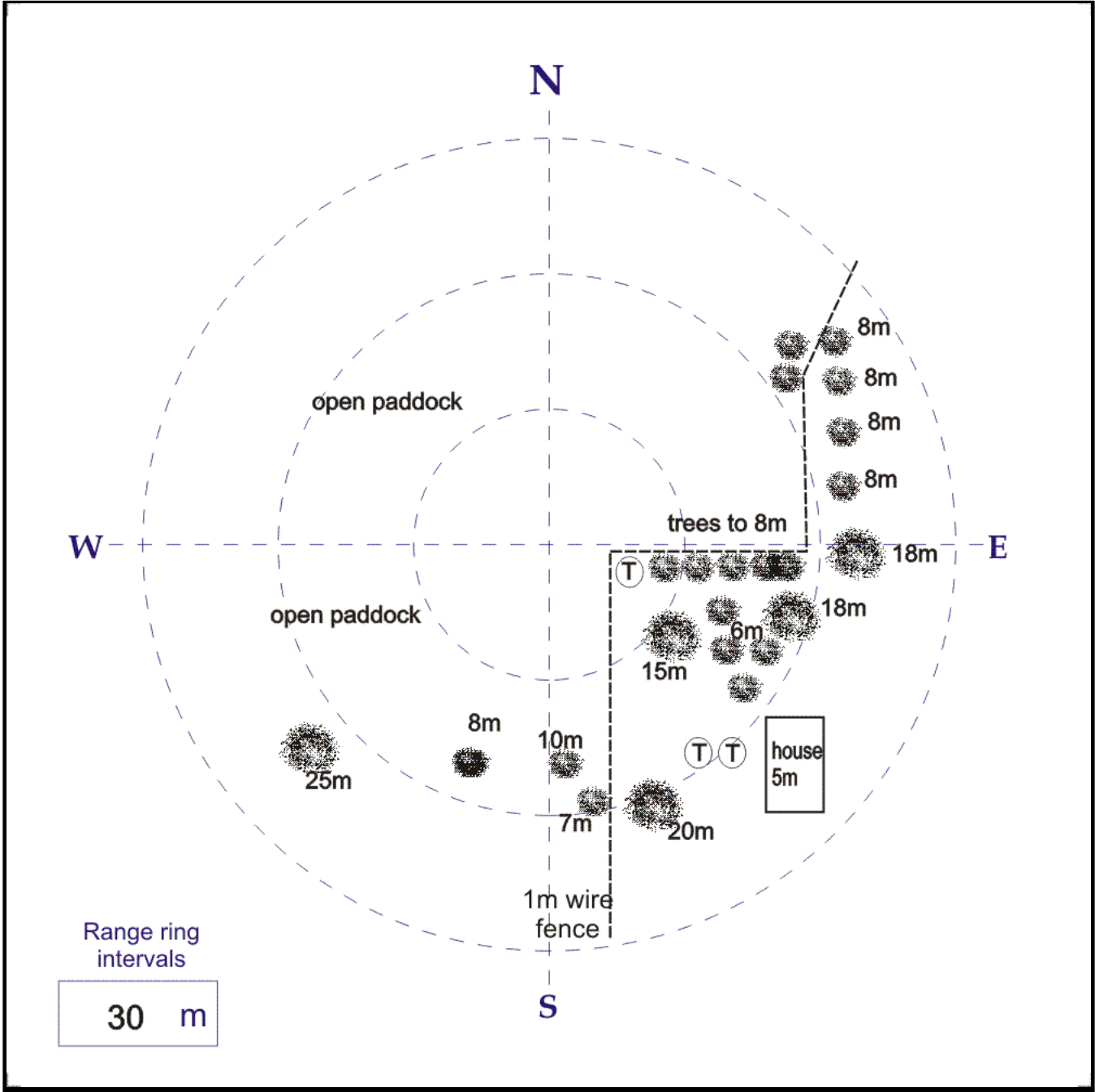
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Instrument Location and Surrounding Features  
30/05/2007



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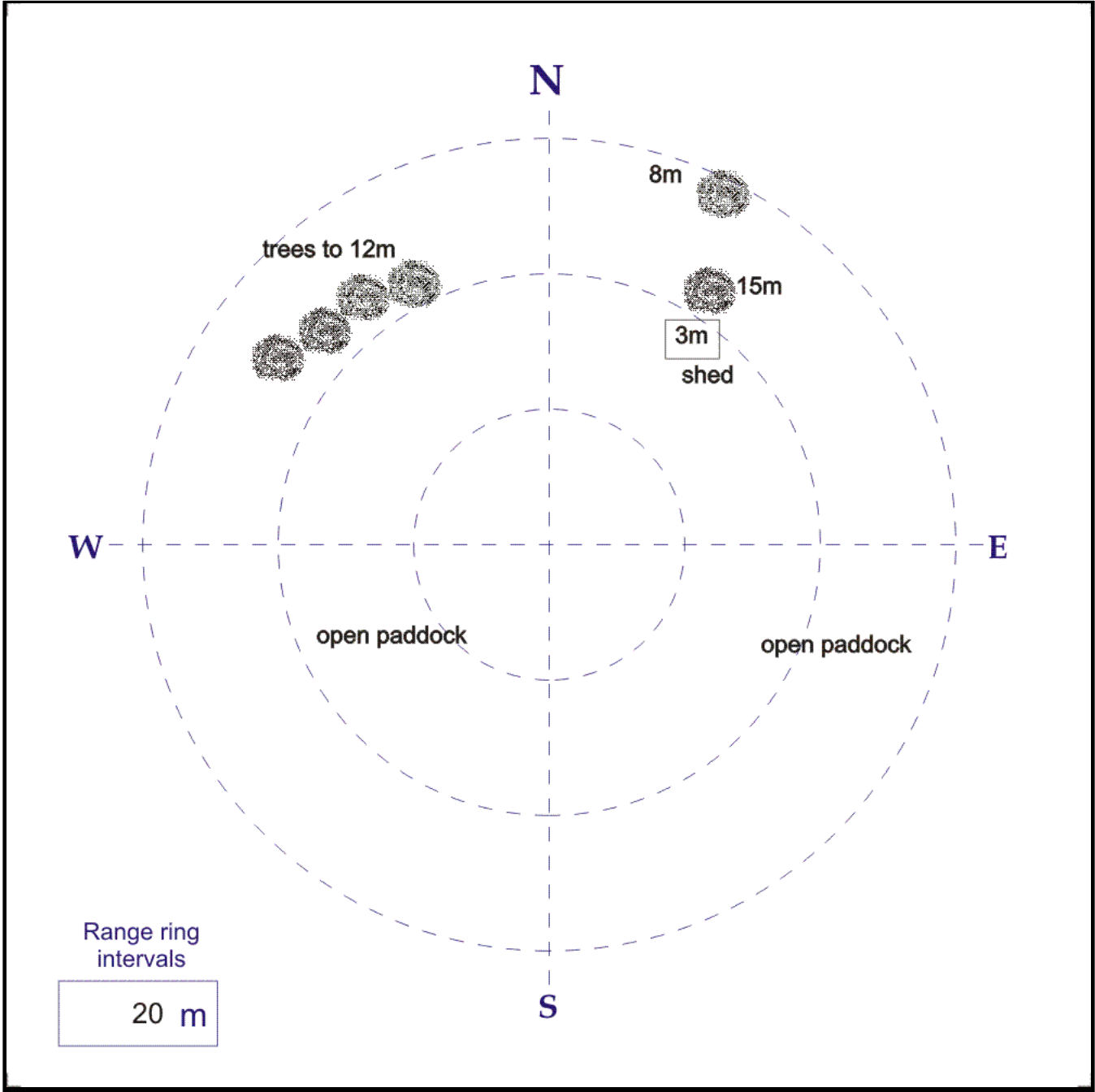
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Instrument Location and Surrounding Features  
28/08/2006



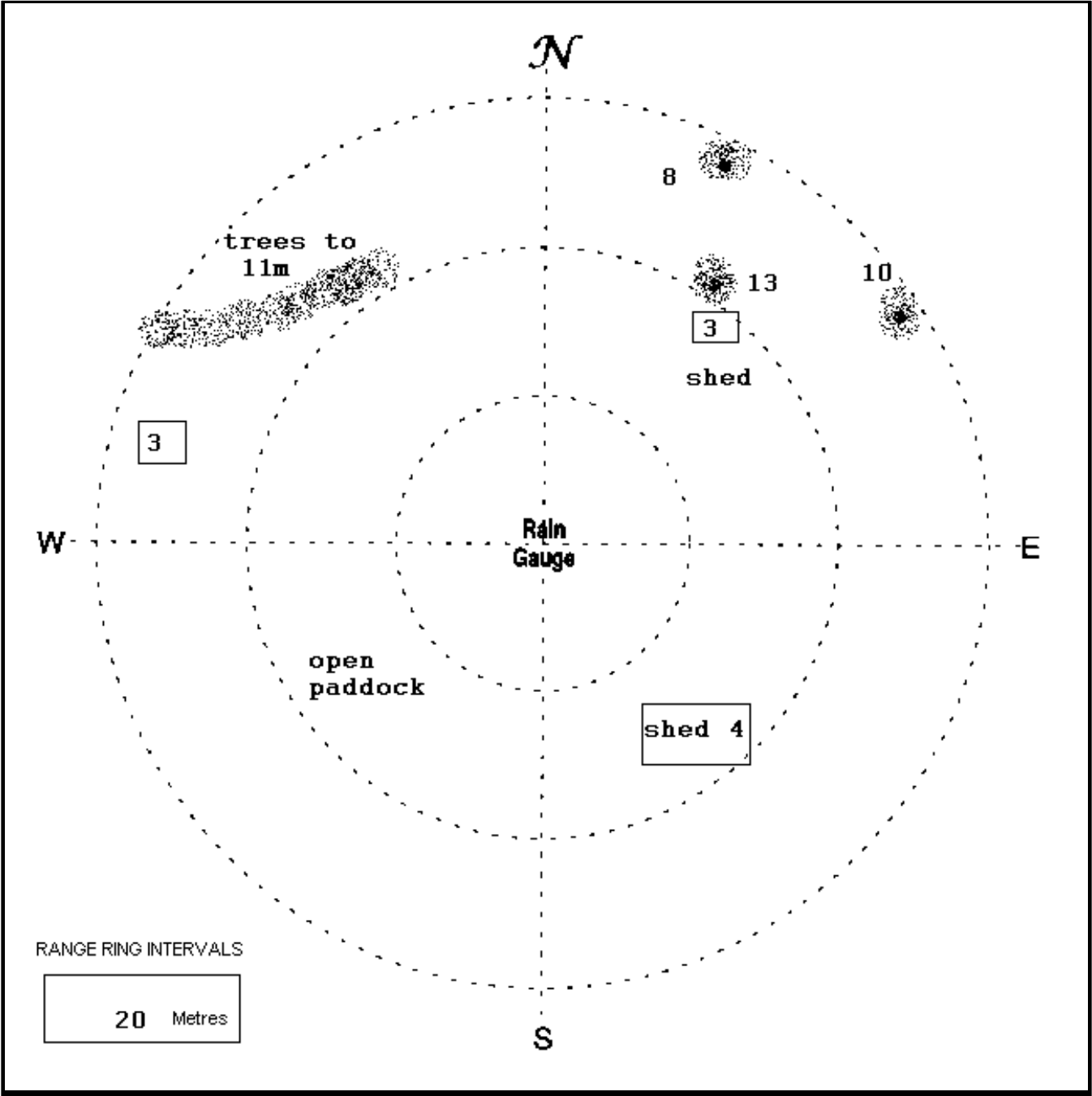
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Instrument Location and Surrounding Features  
14/09/2004



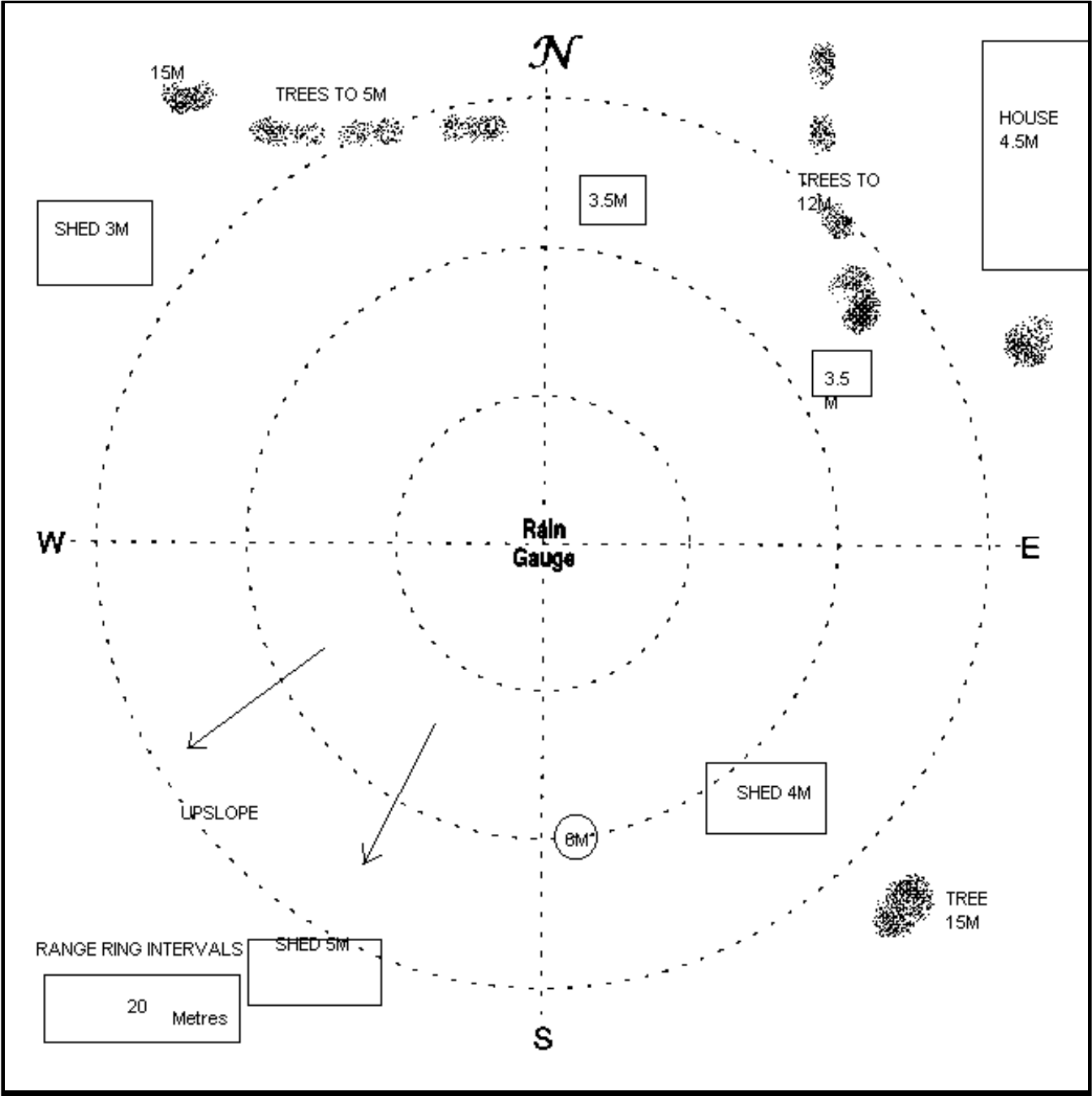
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Instrument Location and Surrounding Features  
17/02/1993



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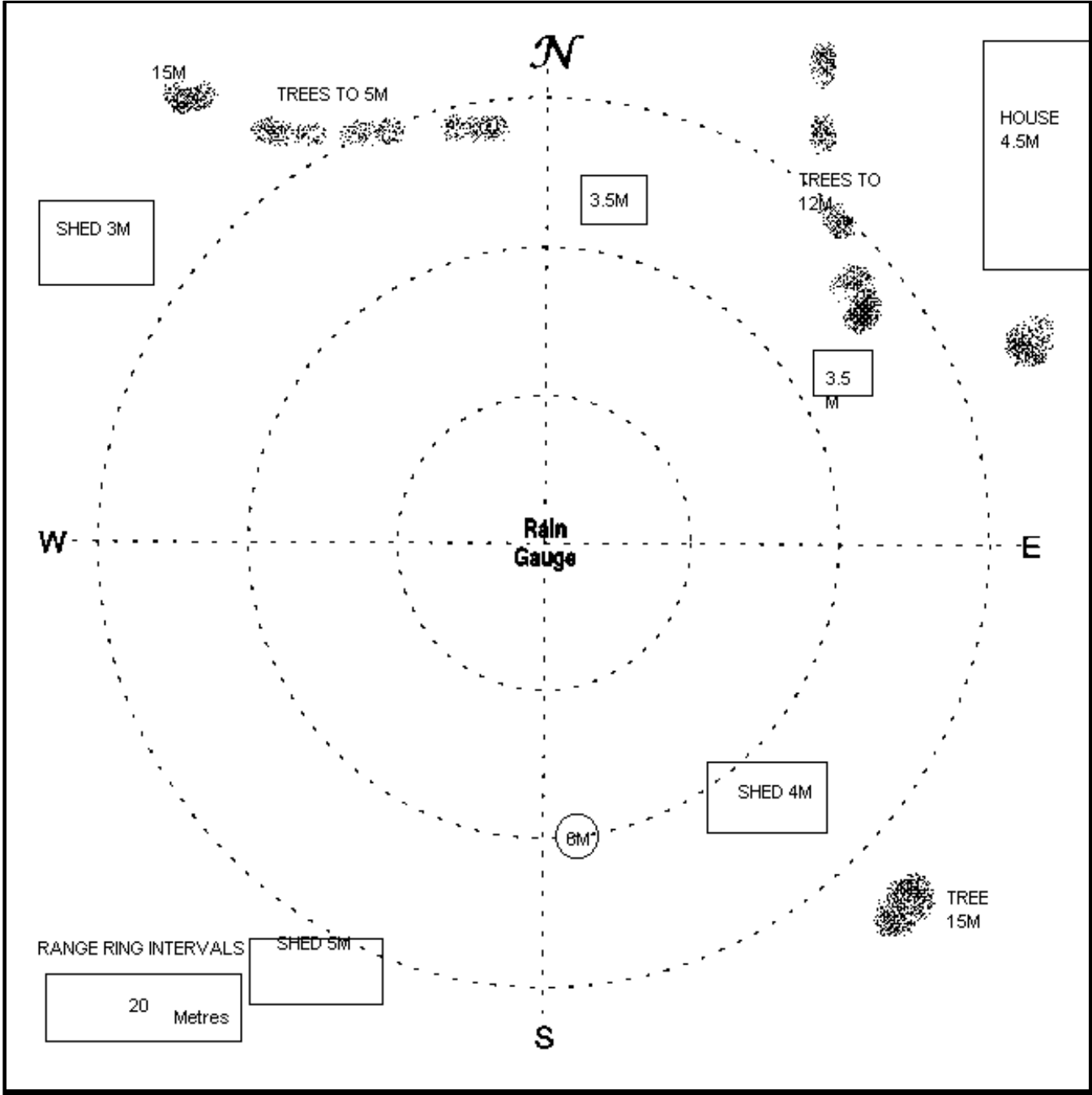




Extended Climatological Station Metadata  
All History

Station:	HORSHAM POLKEMMET RD		Location:	HORSHAM POLKEMMET RD		State:	VIC
Bureau No.:	079023	WMO No.:	?	Aviation ID:	NO ID	Opened:	03 Sep 1873
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Instrument Location and Surrounding Features  
27/01/1988



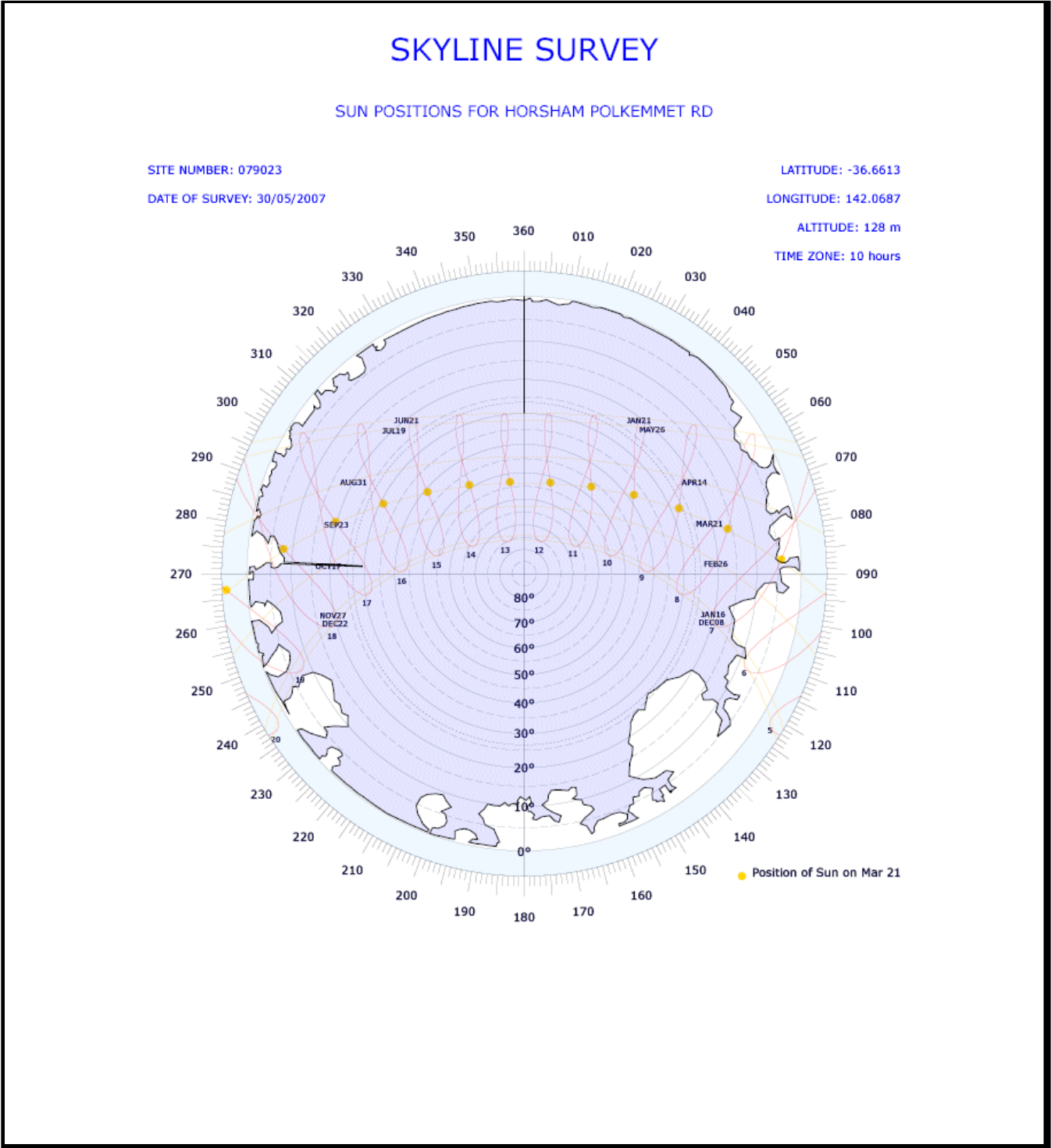
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Extended Climatological Station Metadata  
All History

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Skyline Diagram  
30/05/2007



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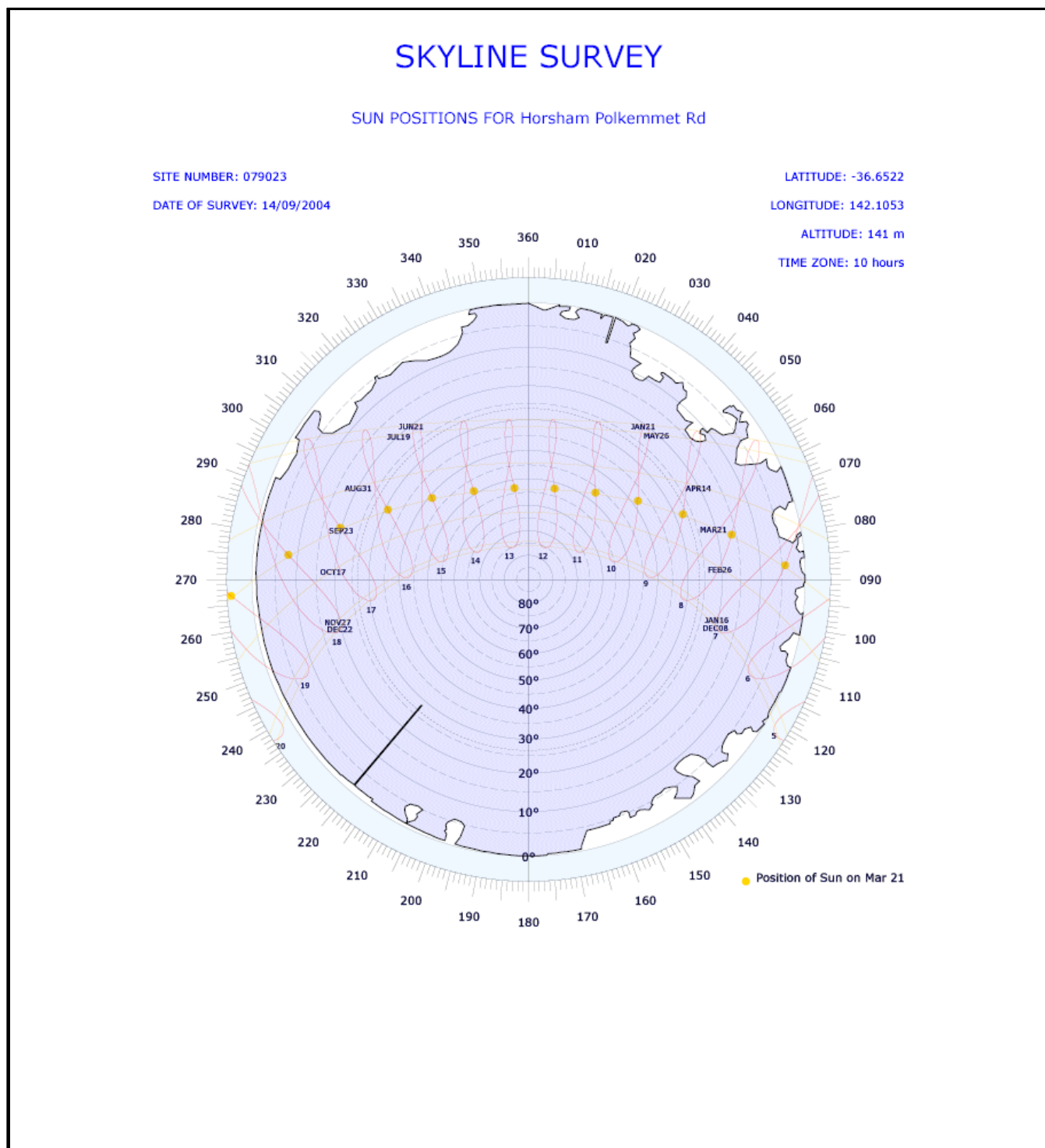
## Extended Climatological Station Metadata

All History

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<b>Bureau No.:</b>	079023	<b>WMO No.:</b>	?	<b>Aviation ID:</b>	NO ID
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		<b>Elevation:</b>	128 m	<b>Barometer Elev:</b>	
				<b>Current Status:</b>	Closed
				<b>Metadata compiled:</b>	28 JUL 2025

### Skyline Diagram

14/09/2004



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Extended Climatological Station Metadata  
All History

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<b>Metadata compiled:</b>							28 JUL 2025

Station Observation Program Summary (Surface Observations) from 01/09/1873 to 01/04/1947

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	-	-

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

Station Observation Program Summary (Surface Observations) from 01/04/1947 to 26/05/1978

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	-	-

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

Station Observation Program Summary (Surface Observations) from 26/05/1978 to 01/11/1986

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	-	-

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

Station Observation Program Summary (Surface Observations) from 01/11/1986 to 16/03/2005

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	-	-

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

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All History

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<b>Current Status:</b>							Closed
<b>Metadata compiled:</b>							28 JUL 2025

Station Observation Program Summary (Surface Observations) from 16/03/2005 to 08/04/2012

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	-	-

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

Station Observation Program Summary (Surface Observations) 28 JUL 2025 (most recent)

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	-	-

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

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Station Equipment History

Equipment Install/Remove

Cloud Height (No Electronic History)

Humidity (No Electronic History)

Pressure Trend (No Electronic History)

Lightning (No Electronic History)

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

- 27/JAN/1988 INSTALL Anemometer (Type Dwyer on mast S/N - Unknown) Surface Observations
- 26/SEP/2006 INSTALL Anemometer (Type Kestrel 1000 S/N - 1653587) Surface Observations
- 19/SEP/1980 INSTALL Anemometer (Type Ventimeter S/N - Unknown) Surface Observations
- 21/OCT/1898 INSTALL Anemometer (Type Wind Vane S/N - Unknown) Surface Observations
- 26/SEP/2006 REMOVE Anemometer (Type Dwyer on mast S/N - Unknown) Surface Observations
- 08/APR/2012 REMOVE Anemometer (Type Kestrel 1000 S/N - 1686024) Surface Observations
- 27/JAN/1988 REMOVE Anemometer (Type Ventimeter S/N - Unknown) Surface Observations
- 08/APR/2012 REMOVE Anemometer (Type Wind Vane S/N - Unknown) Surface Observations
- 16/JUL/2009 REPLACE Anemometer (Now Kestrel 1000 S/N - 1686024) Surface Observations
- 30/MAY/2007 REPLACE Anemometer (Now Wind Vane S/N - Unknown) Surface Observations

Wet Bulb Temperature

- 21/OCT/1898 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 12614) Surface Observations
- 09/APR/2001 INSTALL Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 16735) Surface Observations
- 09/APR/2001 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 12614) Surface Observations
- 08/APR/2012 REMOVE Thermometer, Mercury, Wet Bulb (Type Dobbie S/N - 16735) Surface Observations

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature

- 21/OCT/1898 INSTALL Thermometer, Mercury, Max (Type Dobbie S/N - M1495) Surface Observations
- 08/APR/2012 REMOVE Thermometer, Mercury, Max (Type Dobbie S/N - CBM4609) Surface Observations
- 03/JUN/2004 REPLACE Thermometer, Mercury, Max (Now Dobbie S/N - CBM4609) 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 (No Electronic History)

Wind Run (No Electronic History)

Minimum Temperature

- 01/JUL/2002 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - 20747) Surface Observations
- 21/OCT/1898 INSTALL Thermometer, Alcohol, Min (Type Dobbie S/N - M6130) Surface Observations
- 01/AUG/2002 REMOVE Thermometer, Alcohol, Min (Type Dobbie S/N - M6130) Surface Observations
- 08/APR/2012 REMOVE Thermometer, Alcohol, Min (Type WIKA S/N - 27676) Surface Observations
- 12/JUN/2009 REPLACE Thermometer, Alcohol, Min (Now Dobbie S/N - 20747) Surface Observations
- 11/JUN/2009 REPLACE Thermometer, Alcohol, Min (Now WIKA S/N - 27607) Surface Observations
- 21/JUL/2010 REPLACE Thermometer, Alcohol, Min (Now WIKA S/N - 27676) Surface Observations

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

Terrestrial Minimum Temperature (No Electronic History)

Visibility (No Electronic History)

Soil Temperature 5cm (No Electronic History)

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Oxygen Content (No Electronic History)

RF Reflectivity (No Electronic History)

Total Column Ozone Amount (No Electronic History)

Pressure

01/JAN/1908   INSTALL Barometer (Type Kew pattern mercury S/N - 1339) Surface Observations

31/DEC/1946   REMOVE Barometer (Type Kew pattern mercury S/N - 1367) Surface Observations

08/NOV/1922   REPLACE Barometer (Now Kew pattern mercury S/N - 1367) Surface Observations

Evaporation (No Electronic History)

Rainfall

01/SEP/1873   INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations

21/JAN/1998   INSTALL Raingauge (Type HS TB3A-0.2 S/N - 94-100) Rainfall Intensity

29/JAN/2003   REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 81178) Rainfall Intensity

08/NOV/1999   REPLACE Raingauge (Now Rimco 8020 TBRG S/N - 76595) 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

27/JAN/1988   INSTALL Anemometer (Type Dwyer on mast S/N - Unknown) Surface Observations

26/SEP/2006   INSTALL Anemometer (Type Kestrel 1000 S/N - 1653587) Surface Observations

19/SEP/1980   INSTALL Anemometer (Type Ventimeter S/N - Unknown) Surface Observations

21/OCT/1898   INSTALL Anemometer (Type Wind Vane S/N - Unknown) Surface Observations

26/SEP/2006   REMOVE Anemometer (Type Dwyer on mast S/N - Unknown) Surface Observations

08/APR/2012   REMOVE Anemometer (Type Kestrel 1000 S/N - 1686024) Surface Observations

27/JAN/1988   REMOVE Anemometer (Type Ventimeter S/N - Unknown) Surface Observations

08/APR/2012   REMOVE Anemometer (Type Wind Vane S/N - Unknown) Surface Observations

16/JUL/2009   REPLACE Anemometer (Now Kestrel 1000 S/N - 1686024) Surface Observations

30/MAY/2007   REPLACE Anemometer (Now Wind Vane S/N - Unknown) Surface Observations

Air Temperature

21/OCT/1898   INSTALL Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 12540) Surface Observations

08/APR/2012   REMOVE Thermometer, Mercury, Dry Bulb (Type Dobbie S/N - 12540) Surface Observations

Surface Inclination (No Electronic History)

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## Extended Climatological Station Metadata

### All History

<b>Station:</b>	HORSHAM POLKEMMET RD		<b>Location:</b>	HORSHAM POLKEMMET RD		<b>State:</b>	VIC
<b>Bureau No.:</b>	079023	<b>WMO No.:</b>	?	<b>Aviation ID:</b>	NO ID	<b>Opened:</b>	03 Sep 1873
<b>Latitude:</b>	-36.6613	<b>Longitude:</b>	142.0687	<b>Elevation:</b>	128 m	<b>Barometer Elev:</b>	
						<b>Current Status:</b>	Closed
						<b>Metadata compiled:</b>	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 multi-stage quality control process.

Available Date Range	Element	Fail Field Performance Check
17/NOV/1997 - 03/AUG/2011	Wind Direction	7
08/NOV/1999 - 03/AUG/2011	Wet Bulb Temperature	1
08/NOV/1999 - 03/AUG/2011	Maximum Temperature	0
08/NOV/1999 - 03/AUG/2011	Minimum Temperature	0
21/JAN/1998 - 07/AUG/2014	Rainfall	1
17/NOV/1997 - 03/AUG/2011	Wind Speed	7
08/NOV/1999 - 03/AUG/2011	Air Temperature	0

### Station Detail Changes

02/AUG/2021 CLASSIFICATION Mastered in EAMS (EAMS)  
01/JUL/2017 CLASSIFICATION Observing Operations Hub - Melbourne (OOH-M)  
08/MAR/2012 OBJECT Document/Closure Letter  
30/MAY/2007 OBJECT Document/SKYLINE DATA  
14/SEP/2004 OBJECT Document/SKYLINE DATA  
03/SEP/1873 STATION - (nondb seeding) Opened  
03/SEP/1873 STATION - (nondb seeding) wmo\_num Changed to 95834  
01/SEP/2015 STATION Closed  
08/APR/2012 STATION aviation\_id Changed to  
03/SEP/1873 STATION aviation\_id Changed to HORS  
27/JAN/1988 STATION latitude Changed to -36.6522Observation site moved to Polkemmet Rd 27/1/1988. Datum is WGS84  
30/MAY/2007 STATION latitude Changed to -36.66131WGS84  
18/APR/1978 STATION latitude Changed to -36.7069Observation site moved to 7 Culliver St on 18/4/1978. Lat/Lon derived from Navigation software from Land.Vic web site using Datum WGS84  
03/SEP/1873 STATION latitude Changed to -36.7133Original site at PO - corner of Mclachlan St and Firebrace St. Lat/Lon determined using Navigation software (Mapsend) Datum - WGS84  
01/JUL/1952 STATION latitude Changed to -36.7147Observation site moved to Fire Station at 16 Pynsent St, Horsham on 1/7/1952. Lat/Lon determined using Navigation software (Mapsend). Datum is WGS84  
21/OCT/1980 STATION latitude Changed to -36.7556Observation site moved to a property on the Old Hamilton RD on 21/10/1980. Lat/Lon from F436 - File  
27/JAN/1988 STATION latlon\_deriv Changed to GPS  
30/MAY/2007 STATION latlon\_deriv Changed to GPS  
03/SEP/1873 STATION latlon\_deriv Changed to MAP 1:5 000  
01/JUL/1952 STATION latlon\_deriv Changed to MAP 1:5 000  
18/APR/1978 STATION latlon\_deriv Changed to MAP 1:5 000  
21/OCT/1980 STATION latlon\_deriv Changed to Unknown  
01/JUL/1952 STATION latlon\_error Changed to  
18/APR/1978 STATION latlon\_error Changed to  
21/OCT/1980 STATION latlon\_error Changed to  
27/JAN/1988 STATION latlon\_error Changed to

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Extended Climatological Station Metadata  
All History

<b>Station:</b>	HORSHAM POLKEMMET RD		<b>Location:</b>	HORSHAM POLKEMMET RD		<b>State:</b>	VIC
<b>Bureau No.:</b>	079023	<b>WMO No.:</b>	?	<b>Aviation ID:</b>	NO ID	<b>Opened:</b>	03 Sep 1873
<b>Latitude:</b>	-36.6613	<b>Longitude:</b>	142.0687	<b>Elevation:</b>	128 m	<b>Barometer Elev:</b>	
<b>Current Status:</b>							Closed
<b>Metadata compiled:</b>							28 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

30/MAY/2007	STATION latlon_error Changed to 5
30/MAY/2007	STATION longitude Changed to 142.06872WGS84
27/JAN/1988	STATION longitude Changed to 142.1053Observation site moved to Polkemmet Rd 27/1/1988. Datum is WGS84
01/JUL/1952	STATION longitude Changed to 142.2017Observation site moved to Fire Station at 16 Pynsent St, Horsham on 1/7/1952. Lat/Lon determined using Navigation software (Mapsend). Datum is WGS84
21/OCT/1980	STATION longitude Changed to 142.2053Observation site moved to a property on the Old Hamilton RD on 21/10/1980. Lat/Lon from F436 - File
18/APR/1978	STATION longitude Changed to 142.2147Observation site moved to 7 Culliver St on 18/4/1978. Lat/Lon derived from Navigation software from Land.Vic web site using Datum WGS84
03/SEP/1873	STATION longitude Changed to 142.2Original site at PO - corner of Mclachlan St and Firebrace St. Lat/Lon determined using Navigation software (Mapsend) Datum - WGS84
27/JAN/1988	STATION lu_0_100m Changed to Open farmland, grassland or tundra
27/JAN/1988	STATION lu_100m_1km Changed to Open farmland, grassland or tundra
27/JAN/1988	STATION lu_1km_10km Changed to Open farmland, grassland or tundra
18/APR/1978	STATION name Changed to HORSHAM CULLIVER ST
01/JUL/1952	STATION name Changed to HORSHAM FIRE STATION
21/OCT/1980	STATION name Changed to HORSHAM OLD HAMILTON RD
27/JAN/1988	STATION name Changed to HORSHAM POLKEMMET RD
03/SEP/1873	STATION name Changed to HORSHAM POST OFFICE
30/MAY/2007	STATION soil_type Changed to black soil
27/JAN/1988	STATION soil_type Changed to sand
30/MAY/2007	STATION stn_ht Changed to 128
03/SEP/1873	STATION stn_ht Changed to 131.8
18/APR/1978	STATION stn_ht Changed to 132.3
21/OCT/1980	STATION stn_ht Changed to 140
27/JAN/1988	STATION stn_ht Changed to 141
27/JAN/1988	STATION stn_ht_deriv Changed to MAP 1:5 000
30/MAY/2007	STATION stn_ht_deriv Changed to MAP 1:5 000
03/SEP/1873	STATION stn_ht_deriv Changed to SURVEY
18/APR/1978	STATION stn_ht_deriv Changed to Unknown
21/OCT/1980	STATION stn_ht_deriv Changed to Unknown
21/JUL/2010	STATION surface_type Changed to bare ground
27/JAN/1988	STATION surface_type Changed to mostly covered by grass
30/MAY/2007	STATION surface_type Changed to partly covered by grass
08/APR/2012	STATION wmo_num Changed to

System Changes

21/JAN/1998	SYSTEM Rainfall Intensity Commenced
01/SEP/1873	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.

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## Notes on these metadata

### Network Classification

<b>SUPPORTING the BASIC CLIMATE SERVICE</b>
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)
<b>SUPPORTING the NATIONAL WEATHER WATCH SYSTEM</b>
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)
<b>SUPPORTING the BASIC WEATHER SERVICE (BWS)</b>
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
<b>SUPPORTING the BASIC HYDROLOGICAL SERVICE</b>
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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