



Basic Climatological Station Metadata

Current status

Metadata compiled: 28 JUL 2025

Station: NURIOOTPA PIRSA

Bureau of Meteorology station number: 023373

Bureau of Meteorology district name: County Light

State: SA

World Meteorological Organization number: 94681

Identification: NURI

Network Classification: CLIMAT Stations, National Benchmark Network for Agrometeorology

Station purpose: Synoptic, Aeronautical

Automatic Weather Station: Almos



Current Station Location				
Latitude	Decimal	-34.4761	Hour Min Sec	34°28'34"S
Longitude	Decimal	139.0056	Hour Min Sec	139°0'20"E
Station Height	275 m	Barometer Height	276 m	
Method of station geographic positioning			GPS	

Year opened: 1996

Status: Open

Station summary

No summary for this site has been written as yet.

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

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Basic Climatological Station Metadata
Current status

Station:	NURIOOTPA PIRSA		Location:	NURIOOTPA PIRSA		State:	SA
Bureau No.:	023373	WMO No.:	94681	Aviation ID:	NURI	Opened:	28 Aug 1996
Latitude:	-34.4761	Longitude:	139.0056	Elevation:	275 m	Barometer Elev:	276 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	MAR 1999	JUN 2025	95.5	429	0
EVAPORIMETER - MAXIMUM WATER TEMPERATURE	APR 2010	DEC 2011	88.1	76	0
GROUND MINIMUM TEMPERATURE	AUG 1996	AUG 2021	94.5	497	0
MAXIMUM AIR TEMPERATURE	AUG 1996	JUN 2025	98.7	137	0
MAXIMUM WIND GUST SPEED	JUL 2004	JUN 2025	97.8	166	0
SUNSHINE HOURS	MAR 1999	AUG 2021	96.9	249	0
WIND RUN ABOVE 10 FEET	JUL 2004	JUN 2025	73.2	161	62
WIND RUN BELOW 10 FEET	MAR 1999	JUN 2025	96.6	327	0
RAINFALL	AUG 1996	JUL 2025	99	N/A	N/A

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HOURLY DATA HOLDINGS - from 1 to 24 observations per day

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
AIR TEMPERATURE	AUG 1996	JUN 2025	98.9	17.5	38	0
<div><div>1</div><div>8</div><div>5</div><div>0</div></div> <div><div>1</div><div>9</div><div>0</div><div>0</div></div> <div><div>1</div><div>9</div><div>5</div><div>0</div></div> <div><div>2</div><div>0</div><div>0</div><div>0</div></div> <div><div>0</div><div>0</div><div>0</div><div>0</div></div> <div><div>0</div><div>0</div><div>0</div><div>0</div></div>						
DEW POINT	AUG 1996	JUN 2025	98.6	17.4	48	0
<div><div>1</div><div>8</div><div>5</div><div>0</div></div> <div><div>1</div><div>9</div><div>0</div><div>0</div></div> <div><div>1</div><div>9</div><div>5</div><div>0</div></div> <div><div>2</div><div>0</div><div>0</div><div>0</div></div> <div><div>0</div><div>0</div><div>0</div><div>0</div></div> <div><div>0</div><div>0</div><div>0</div><div>0</div></div>						
MEAN SEA LEVEL PRESSURE	AUG 1996	JUN 2025	98.7	17.5	51	0
<div><div>1</div><div>8</div><div>5</div><div>0</div></div> <div><div>1</div><div>9</div><div>0</div><div>0</div></div> <div><div>1</div><div>9</div><div>5</div><div>0</div></div> <div><div>2</div><div>0</div><div>0</div><div>0</div></div> <div><div>0</div><div>0</div><div>0</div><div>0</div></div> <div><div>0</div><div>0</div><div>0</div><div>0</div></div>						
SOIL TEMPERATURE - 10cm	DEC 2006	AUG 2021	93.4	1.6	186	0
<div><div>1</div><div>8</div><div>5</div><div>0</div></div> <div><div>1</div><div>9</div><div>0</div><div>0</div></div> <div><div>1</div><div>9</div><div>5</div><div>0</div></div> <div><div>2</div><div>0</div><div>0</div><div>0</div></div> <div><div>0</div><div>0</div><div>0</div><div>0</div></div> <div><div>0</div><div>0</div><div>0</div><div>0</div></div>						
TOTAL CLOUD AMOUNT	AUG 1996	AUG 2021	94.2	1.8	258	0
<div><div>1</div><div>8</div><div>5</div><div>0</div></div> <div><div>1</div><div>9</div><div>0</div><div>0</div></div> <div><div>1</div><div>9</div><div>5</div><div>0</div></div> <div><div>2</div><div>0</div><div>0</div><div>0</div></div> <div><div>0</div><div>0</div><div>0</div><div>0</div></div> <div><div>0</div><div>0</div><div>0</div><div>0</div></div>						
WIND SPEED	AUG 1996	JUN 2025	98.8	17.4	46	0
<div><div>1</div><div>8</div><div>5</div><div>0</div></div> <div><div>1</div><div>9</div><div>0</div><div>0</div></div> <div><div>1</div><div>9</div><div>5</div><div>0</div></div> <div><div>2</div><div>0</div><div>0</div><div>0</div></div> <div><div>0</div><div>0</div><div>0</div><div>0</div></div> <div><div>0</div><div>0</div><div>0</div><div>0</div></div>						

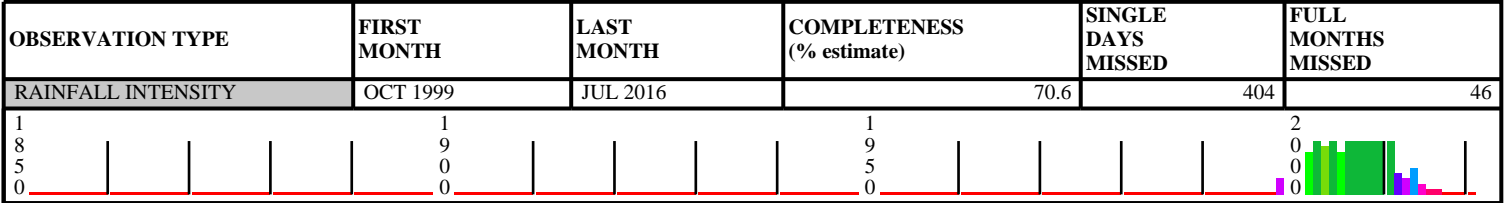
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RAINFALL INTENSITY DATA HOLDINGS



ONE-MINUTE DATA HOLDINGS

OBSERVATION TYPE	FIRST MONTH	LAST MONTH	COMPLETENESS (% estimate)	FREQUENCY average daily	SINGLE DAYS MISSED	FULL MONTHS MISSED
ALL ELEMENTS	NOV 2010	JUL 2025	99.6	1434.4	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	SEP 1996	JUL 2025	78.3	37.6	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

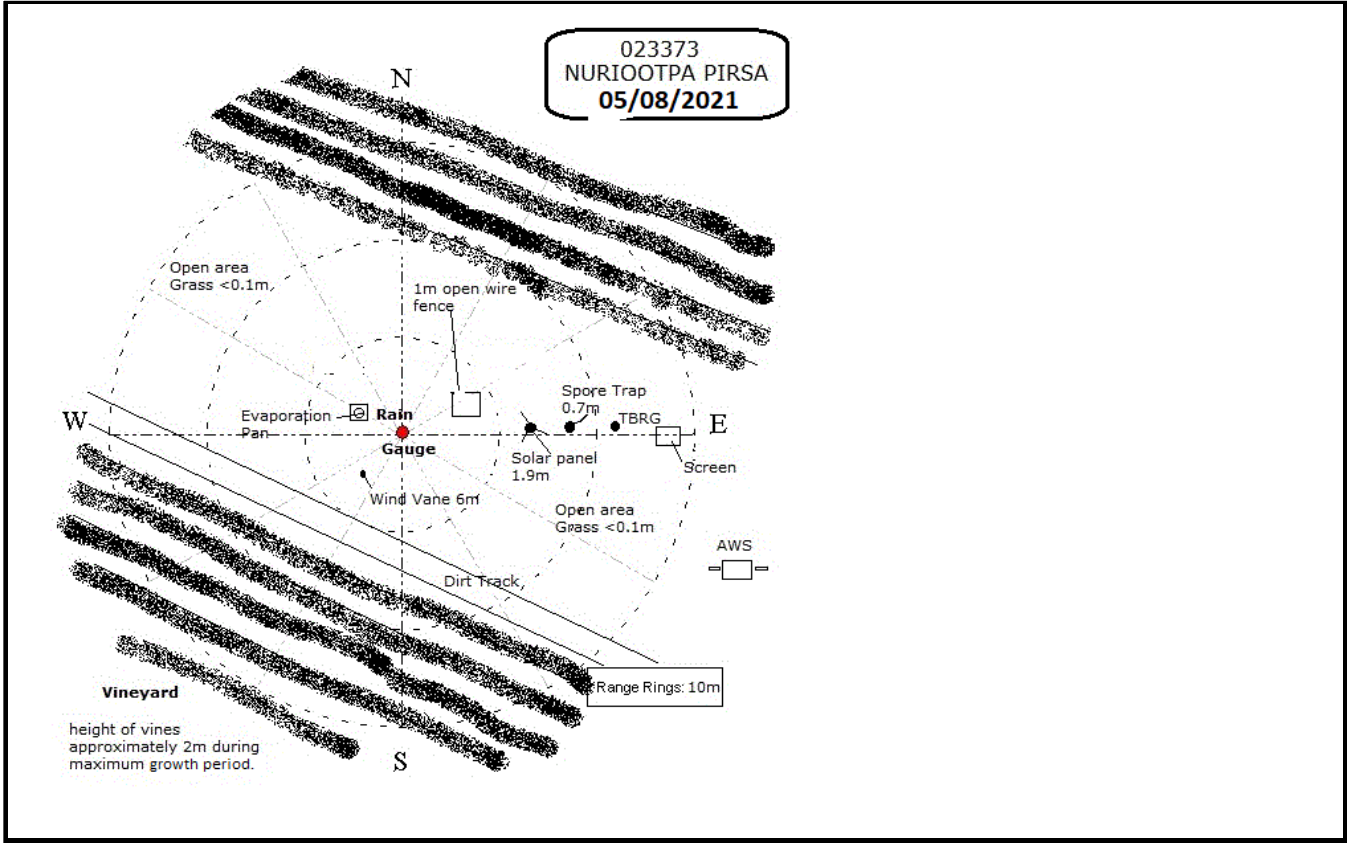
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Extended Climatological Station Metadata
All History

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Instrument Location and Surrounding Features
05/08/2021(most recent)



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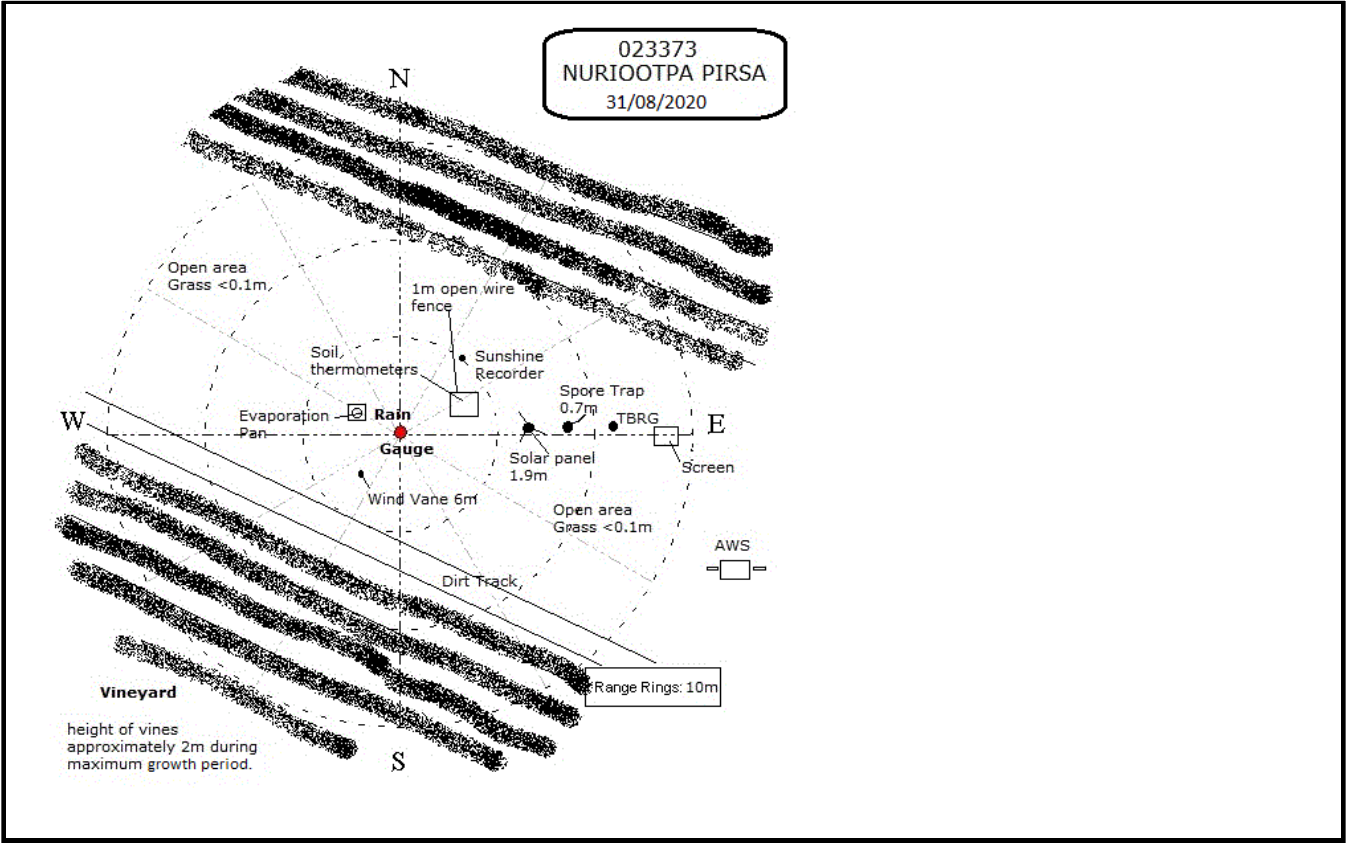
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Extended Climatological Station Metadata
All History

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Instrument Location and Surrounding Features
31/08/2020



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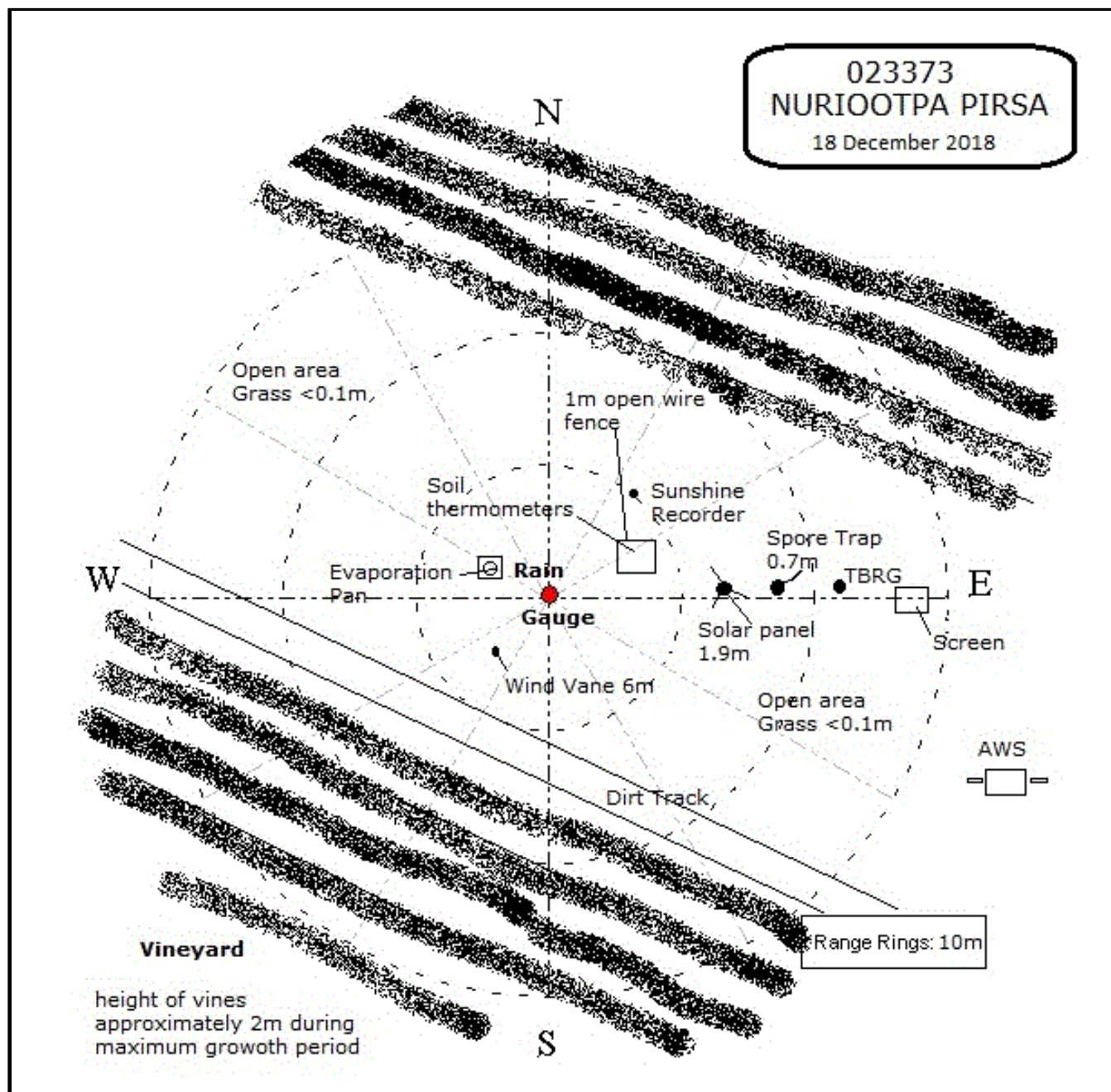
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

18/12/2018



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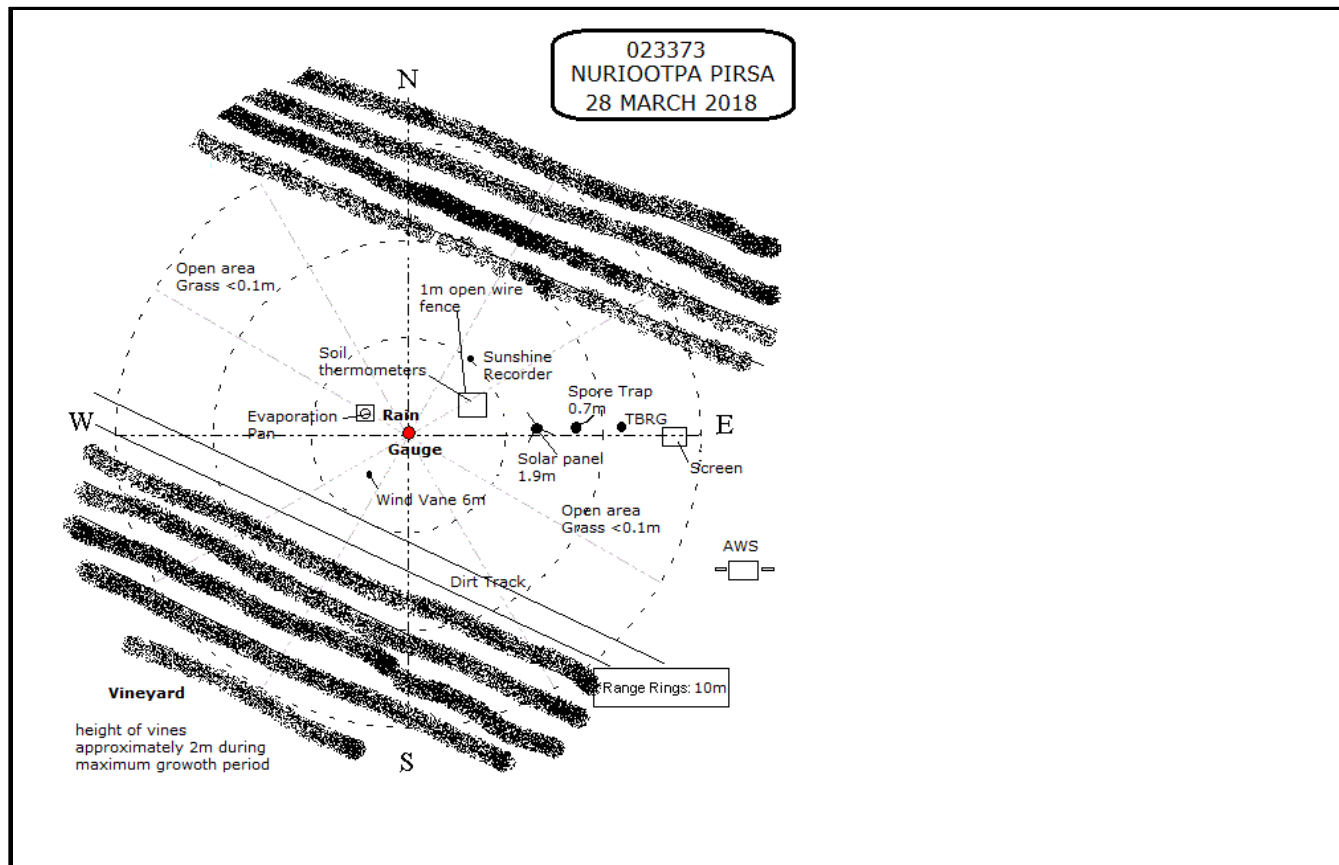
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

28/03/2018



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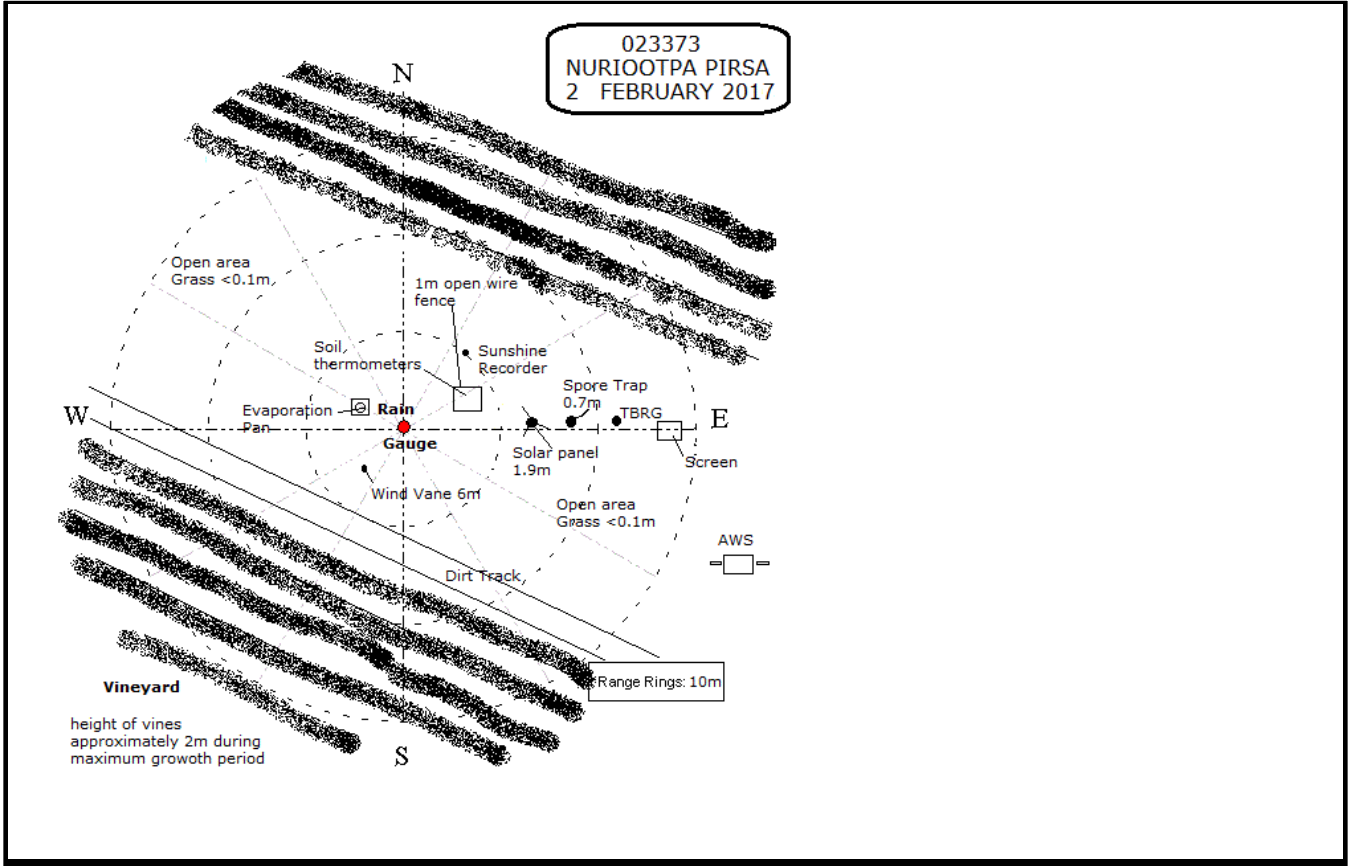
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

02/02/2017



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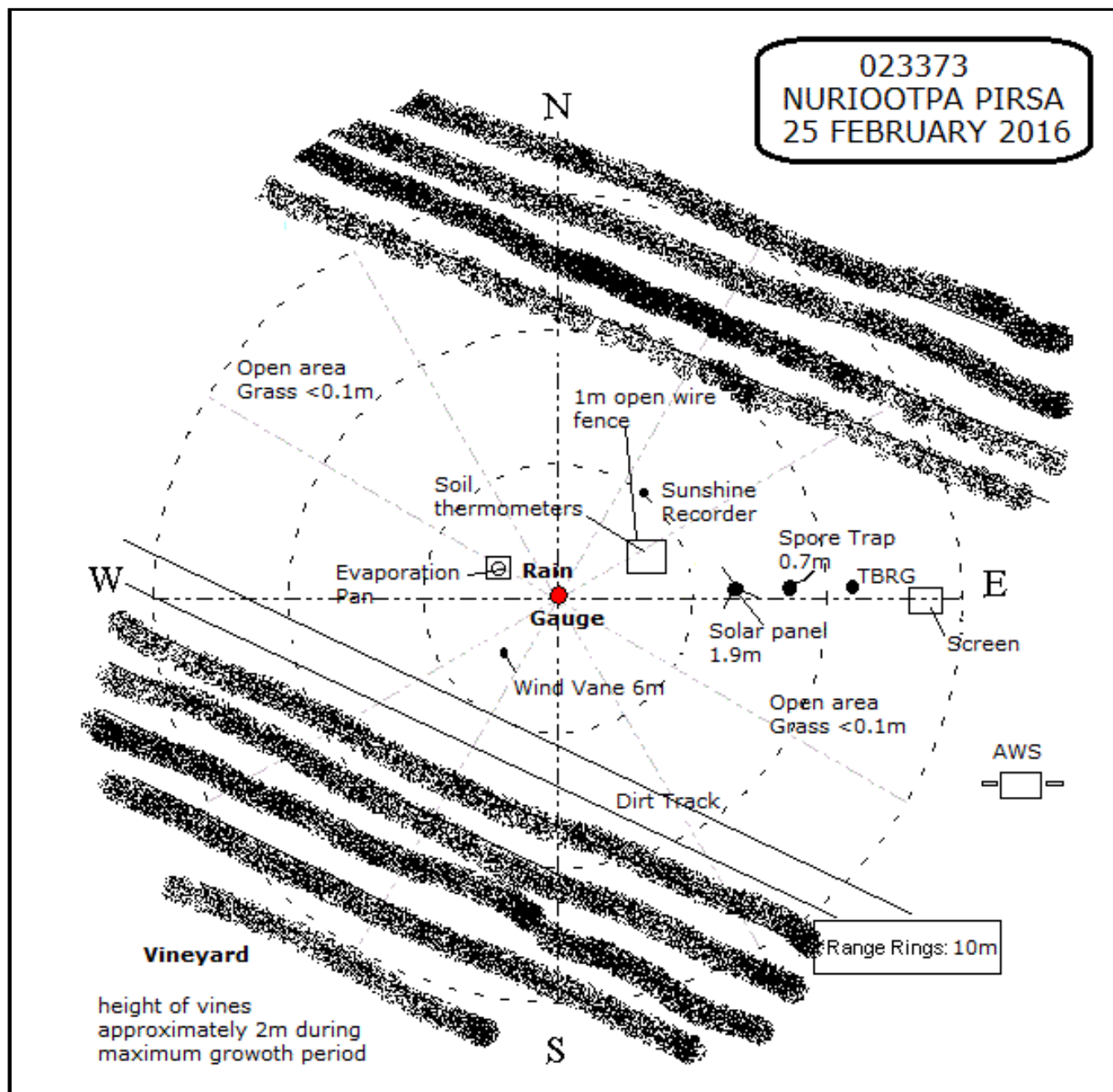
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

25/02/2016



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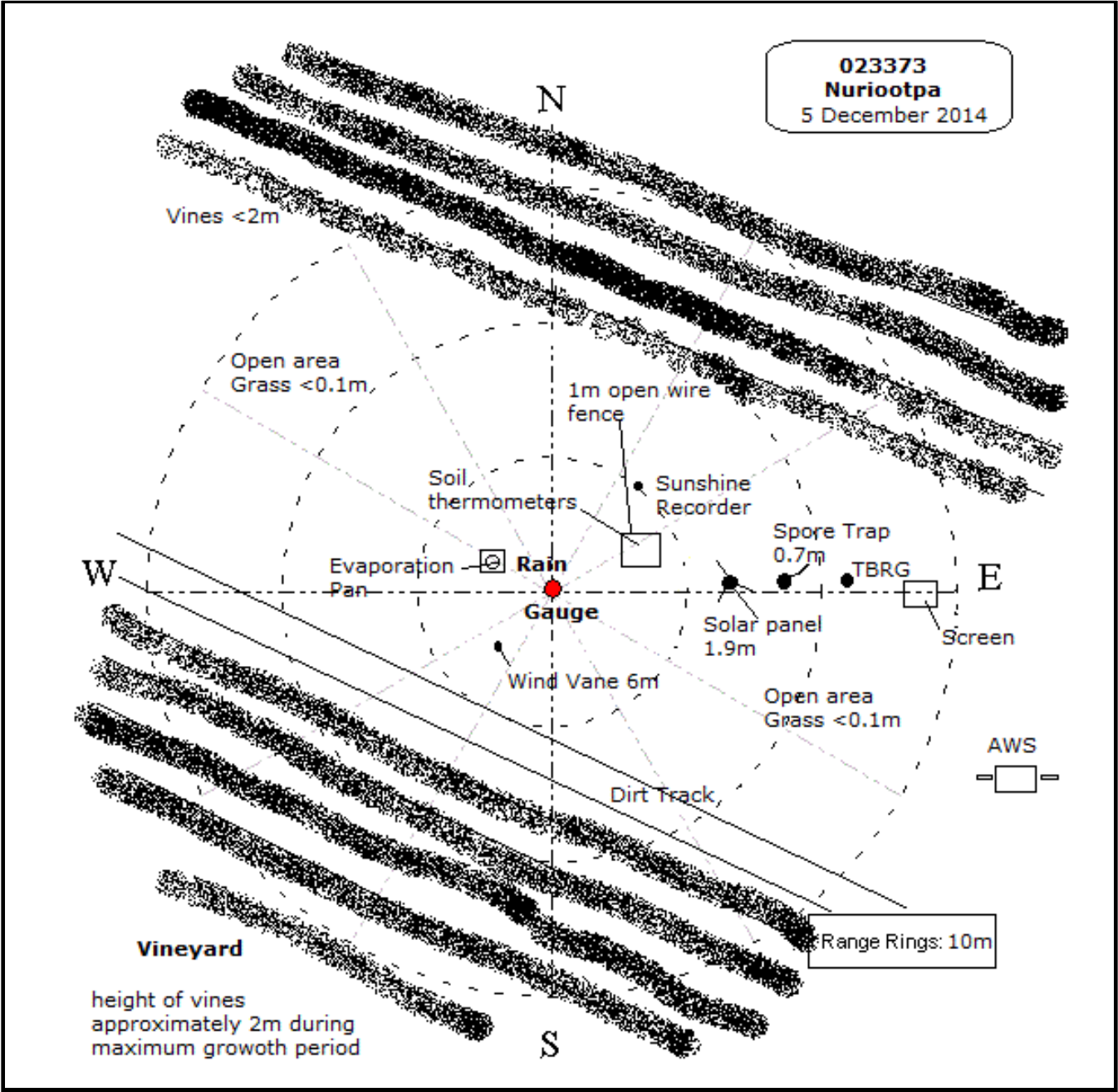
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Instrument Location and Surrounding Features
05/12/2014



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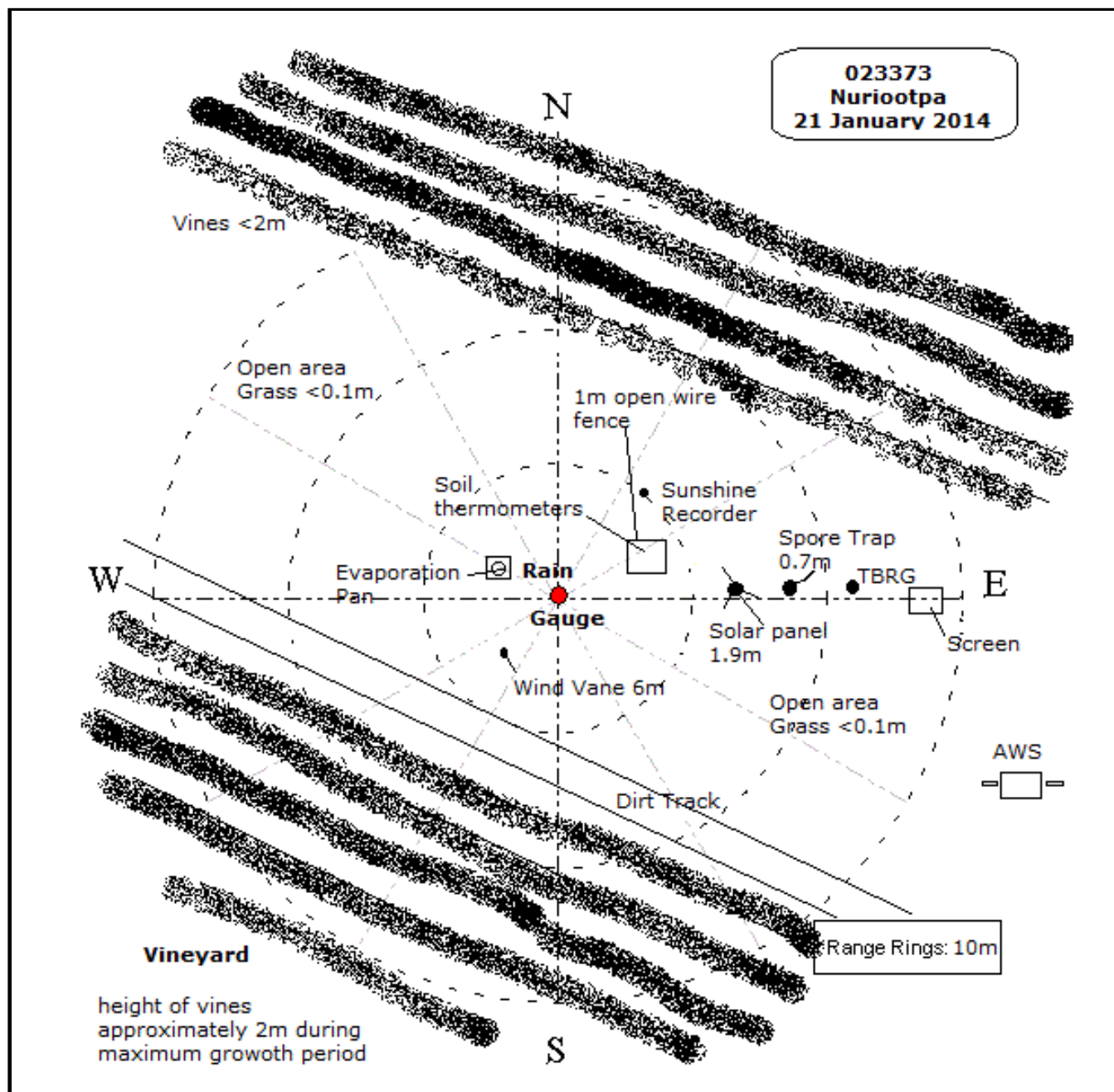
Extended Climatological Station Metadata

All History

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Instrument Location and Surrounding Features

21/01/2014



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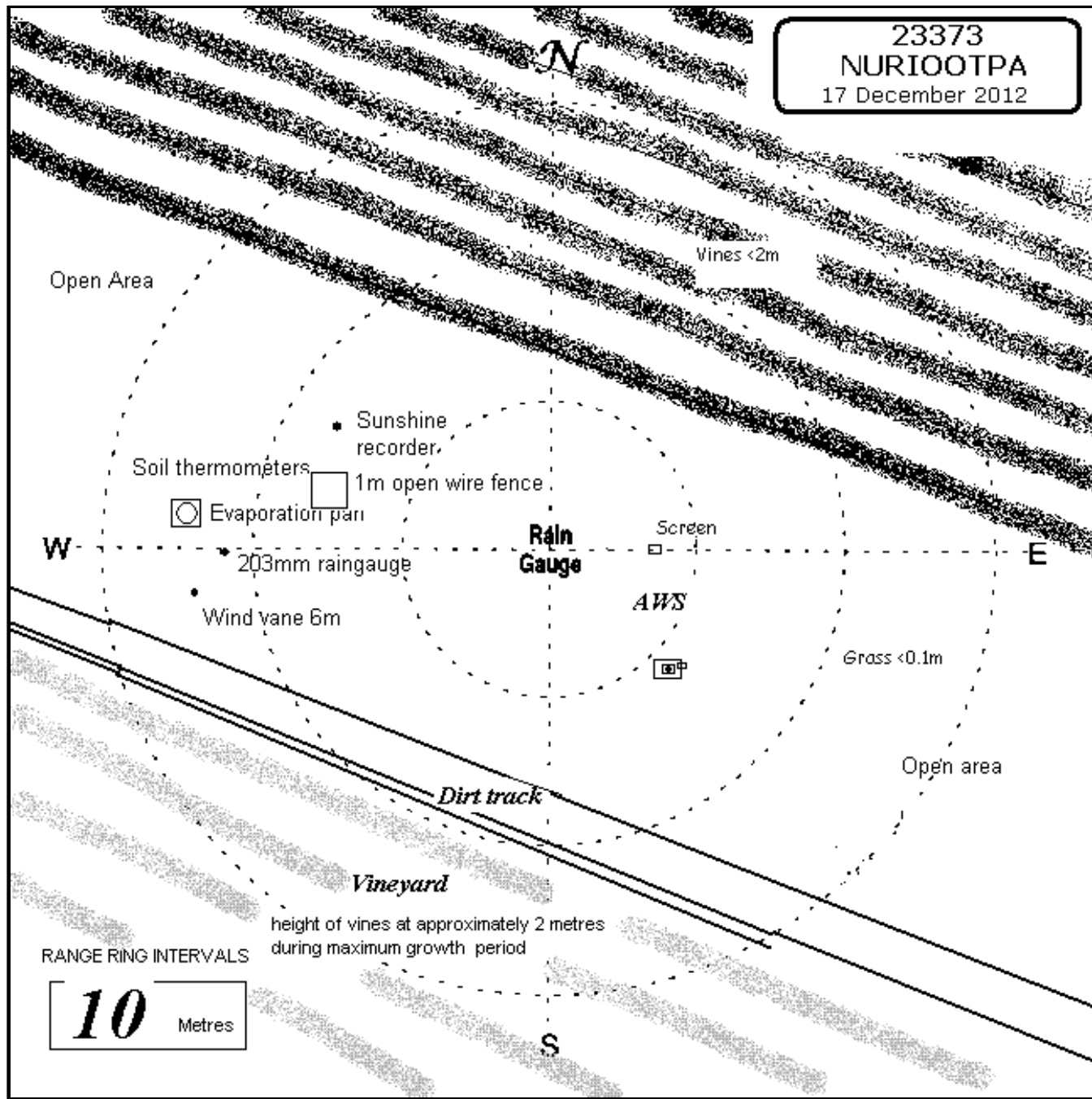
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Instrument Location and Surrounding Features

17/12/2012



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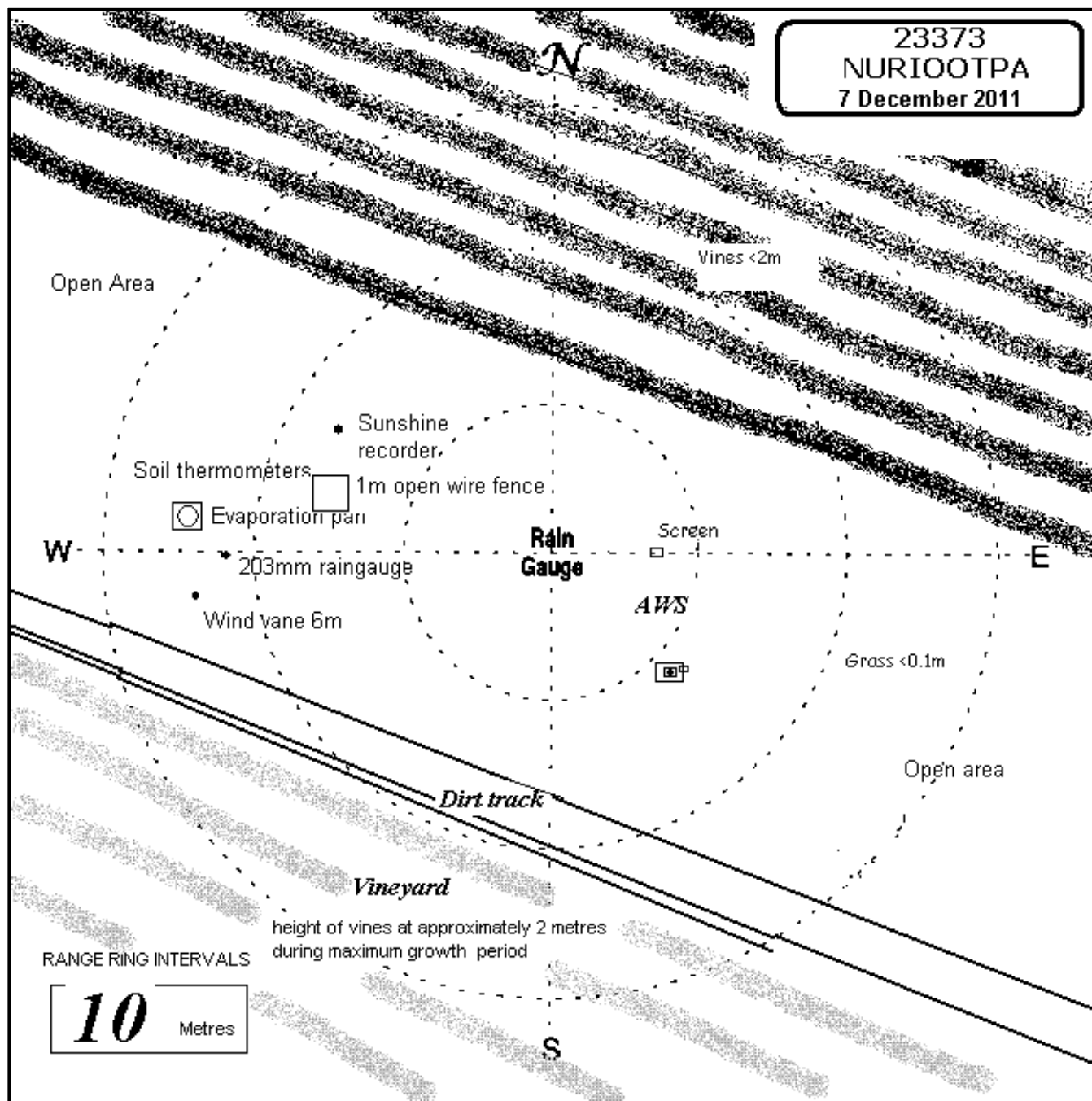
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Instrument Location and Surrounding Features

07/12/2011



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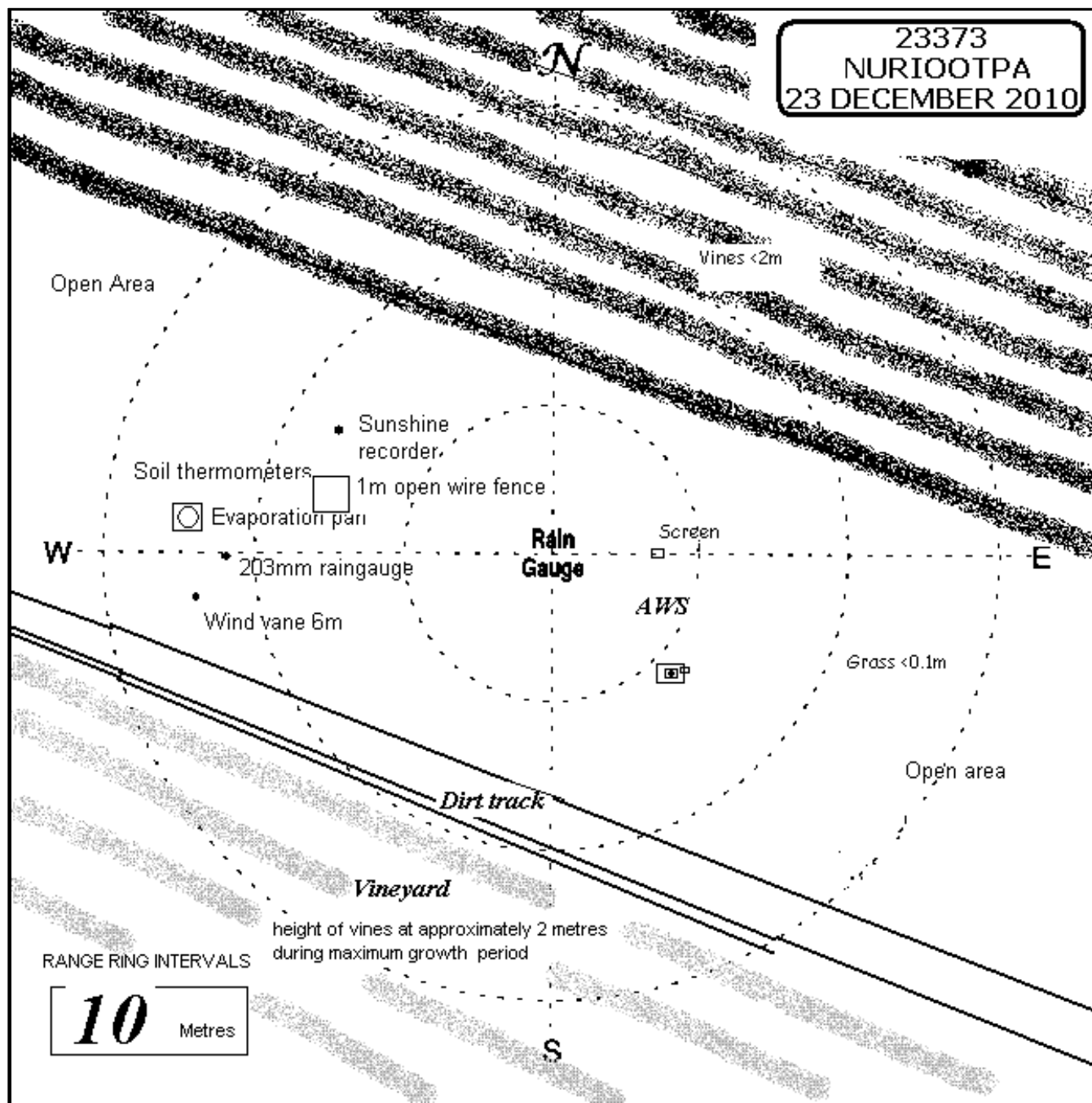
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Instrument Location and Surrounding Features

23/12/2010



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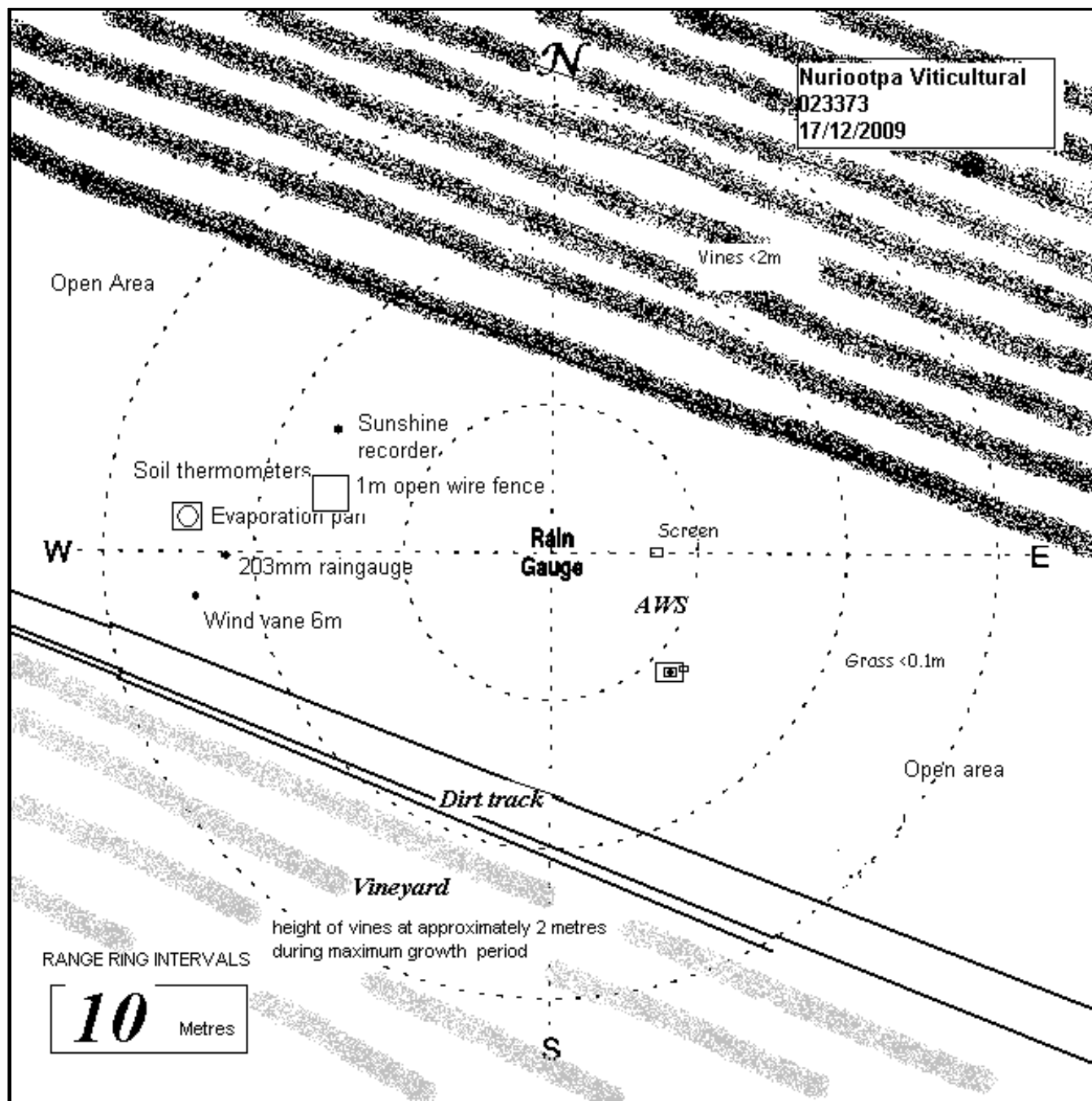
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Instrument Location and Surrounding Features

17/12/2009



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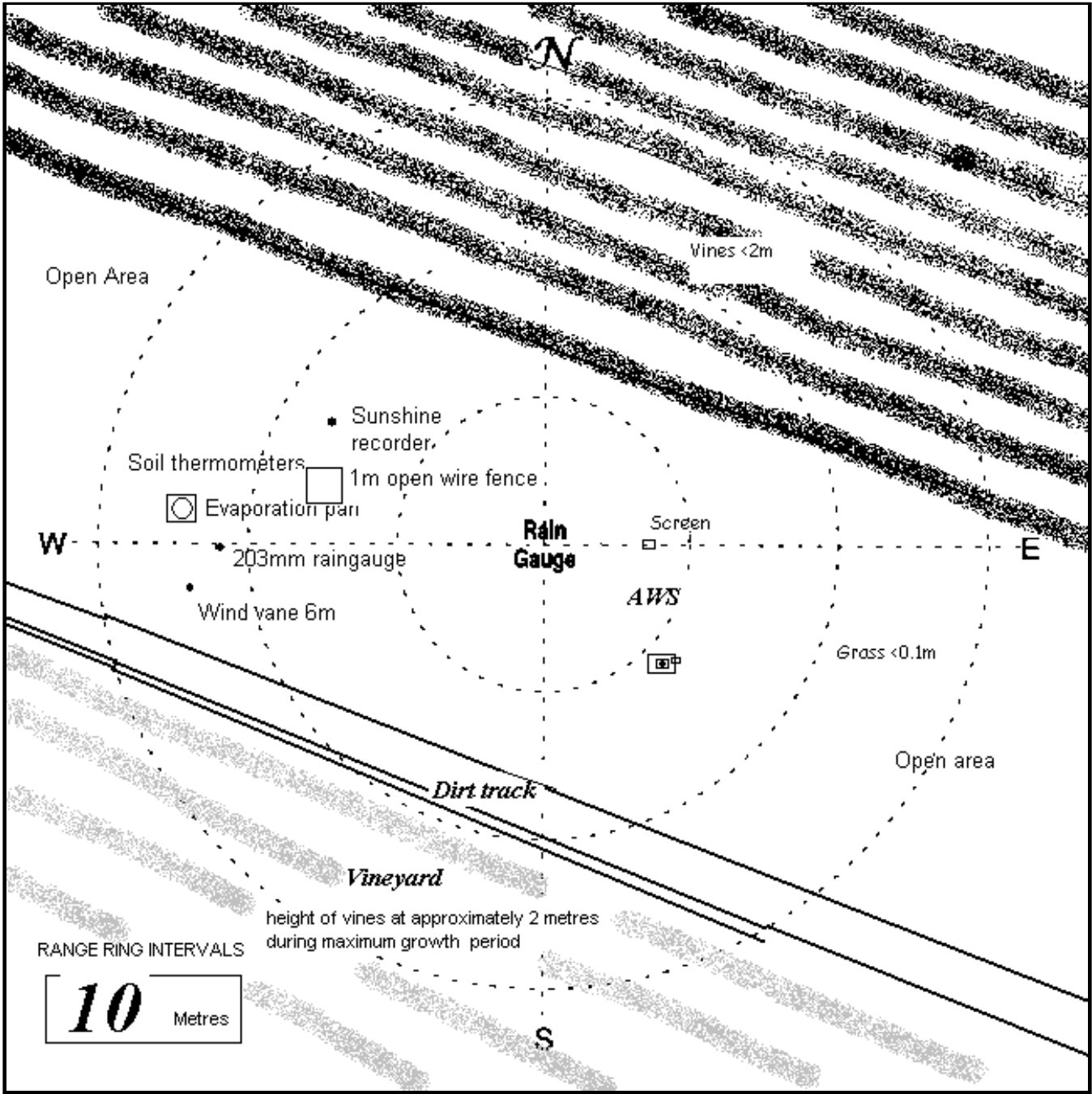
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Instrument Location and Surrounding Features

17/12/2008



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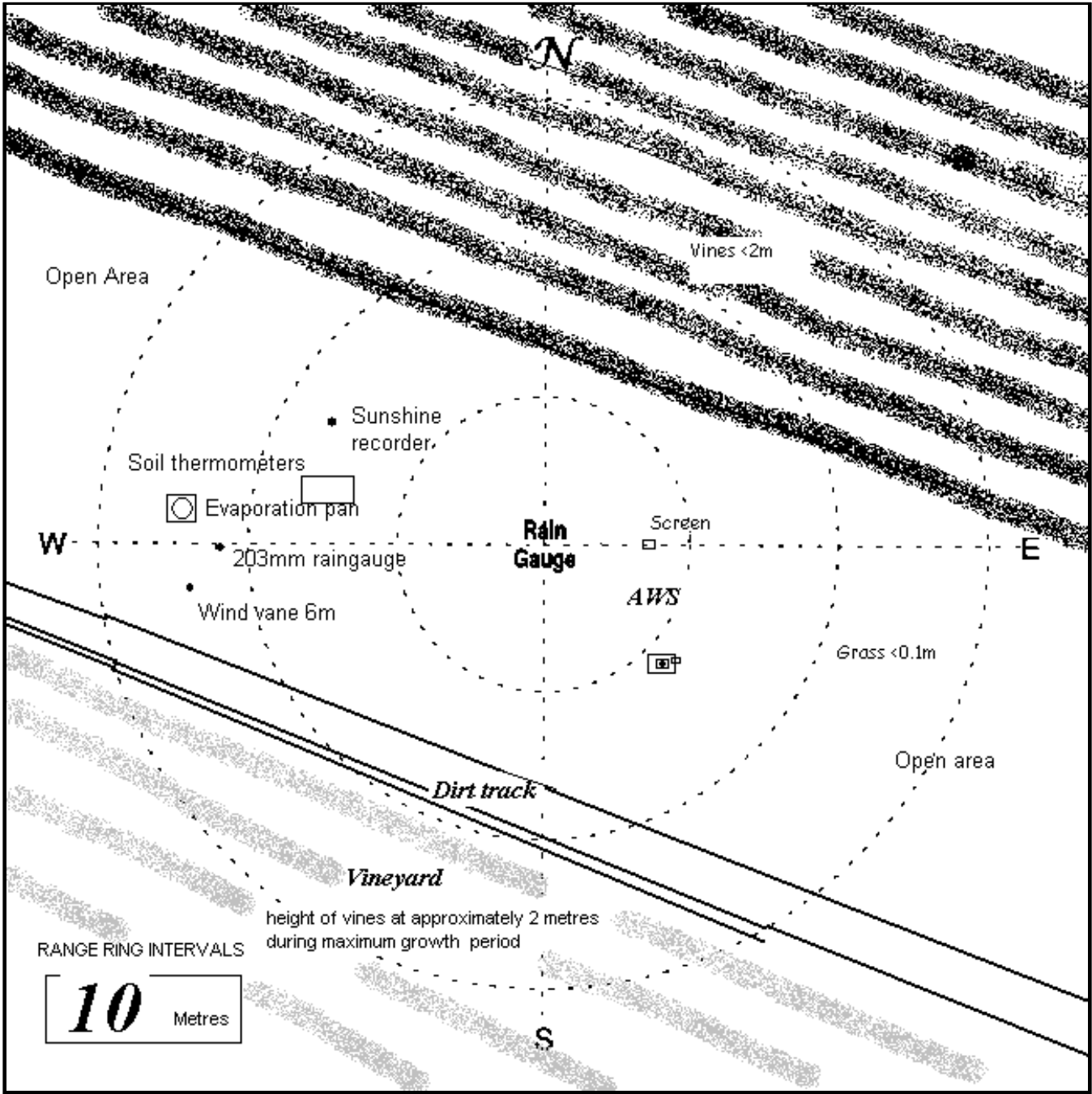
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All History

Station:	NURIOOTPA PIRSA		Location:	NURIOOTPA PIRSA		State:	SA
Bureau No.:	023373	WMO No.:	94681	Aviation ID:	NURI	Opened:	28 Aug 1996
Latitude:	-34.4761	Longitude:	139.0056	Elevation:	275 m	Barometer Elev:	276 m
						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
17/12/2007



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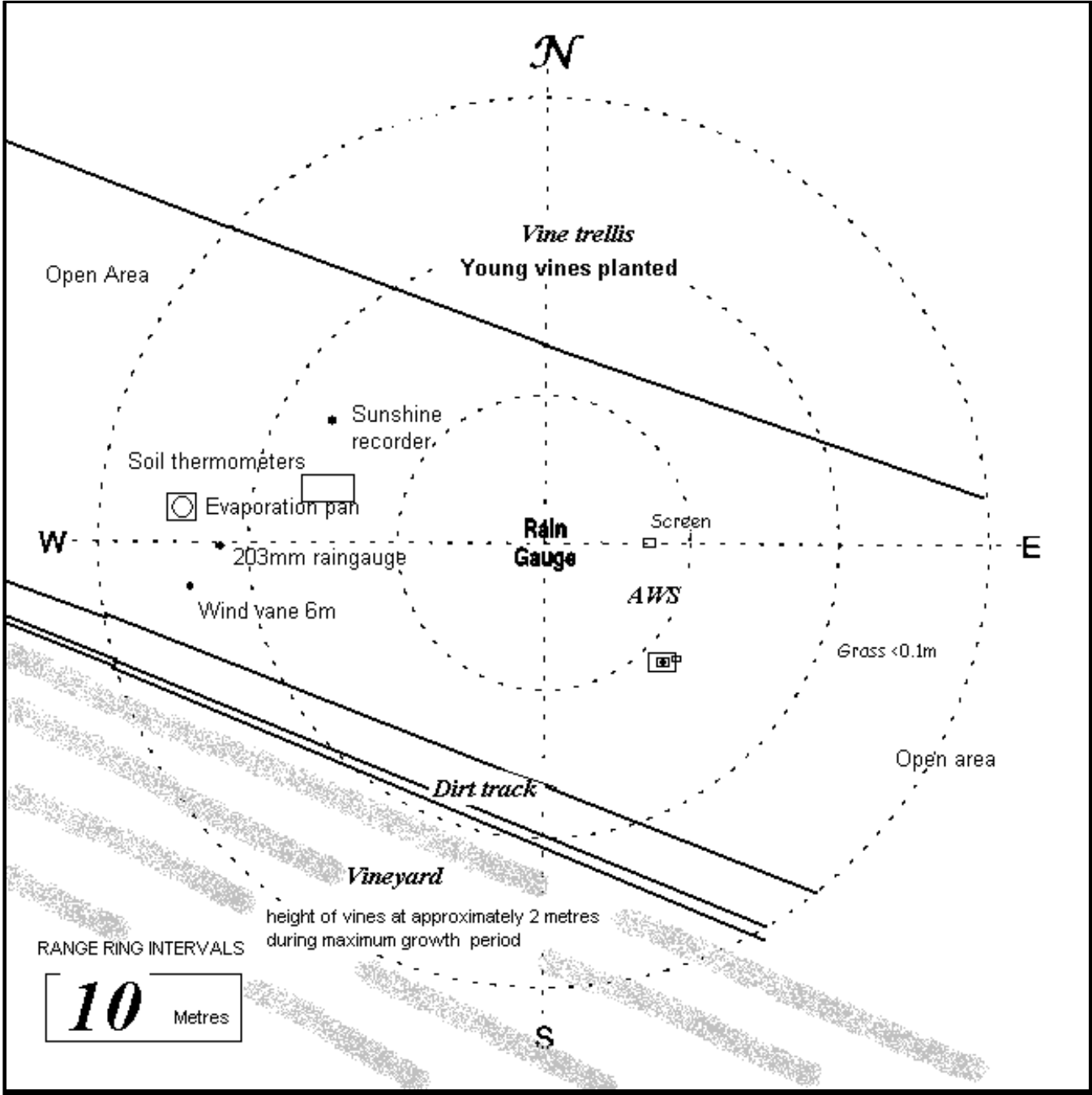
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Extended Climatological Station Metadata
All History

Station:	NURIOOTPA PIRSA		Location:	NURIOOTPA PIRSA		State:	SA
Bureau No.:	023373	WMO No.:	94681	Aviation ID:	NURI	Opened:	28 Aug 1996
Latitude:	-34.4761	Longitude:	139.0056	Elevation:	275 m	Barometer Elev:	276 m
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Instrument Location and Surrounding Features
19/12/2006



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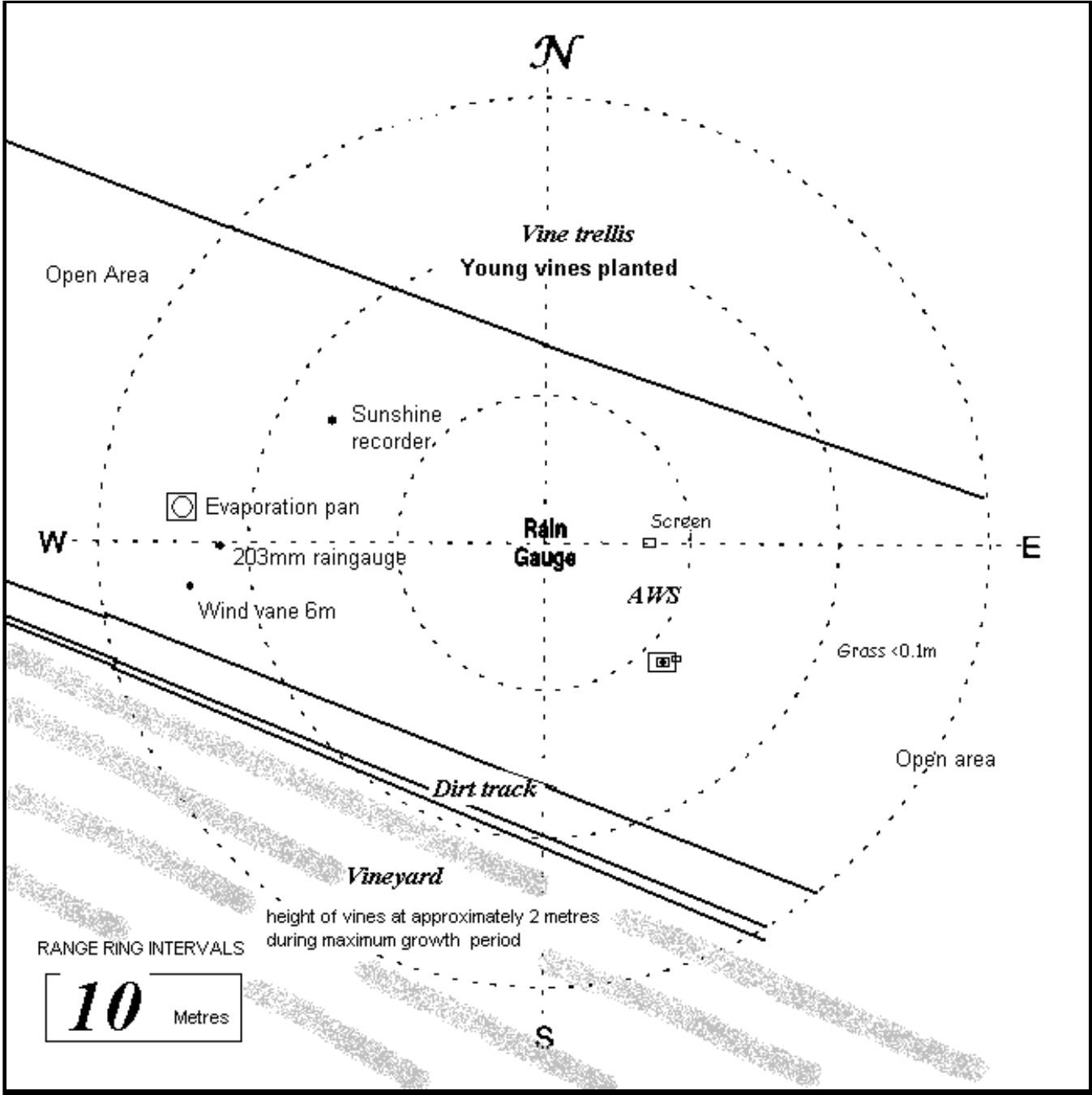
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Extended Climatological Station Metadata
All History

Station:	NURIOOTPA PIRSA		Location:	NURIOOTPA PIRSA		State:	SA
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Latitude:	-34.4761	Longitude:	139.0056	Elevation:	275 m	Barometer Elev:	276 m
						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
20/12/2005



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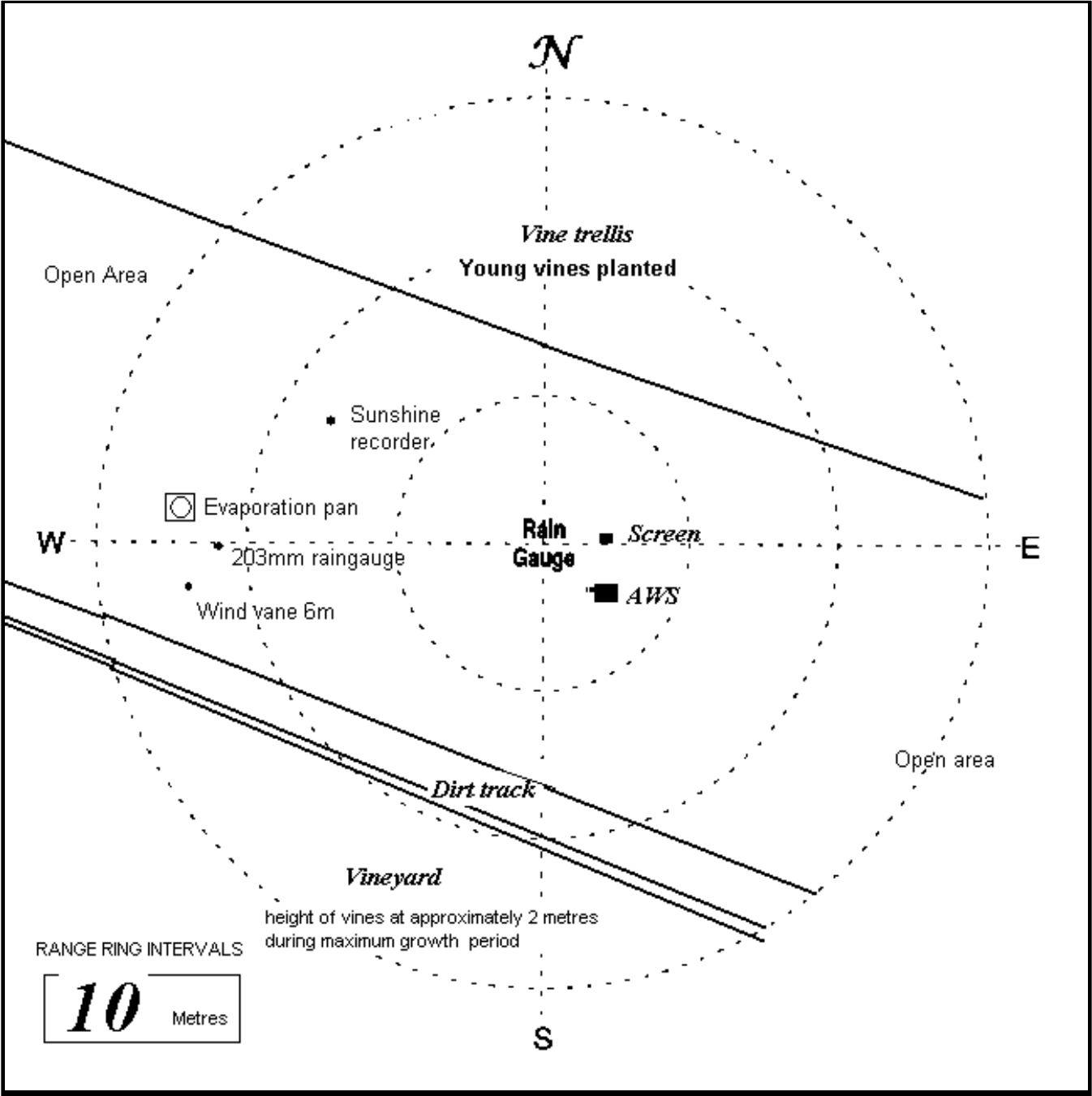
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Extended Climatological Station Metadata
All History

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Bureau No.:	023373	WMO No.:	94681	Aviation ID:	NURI	Opened:	28 Aug 1996
Latitude:	-34.4761	Longitude:	139.0056	Elevation:	275 m	Barometer Elev:	276 m
						Current Status:	Still open
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Instrument Location and Surrounding Features
02/12/2004



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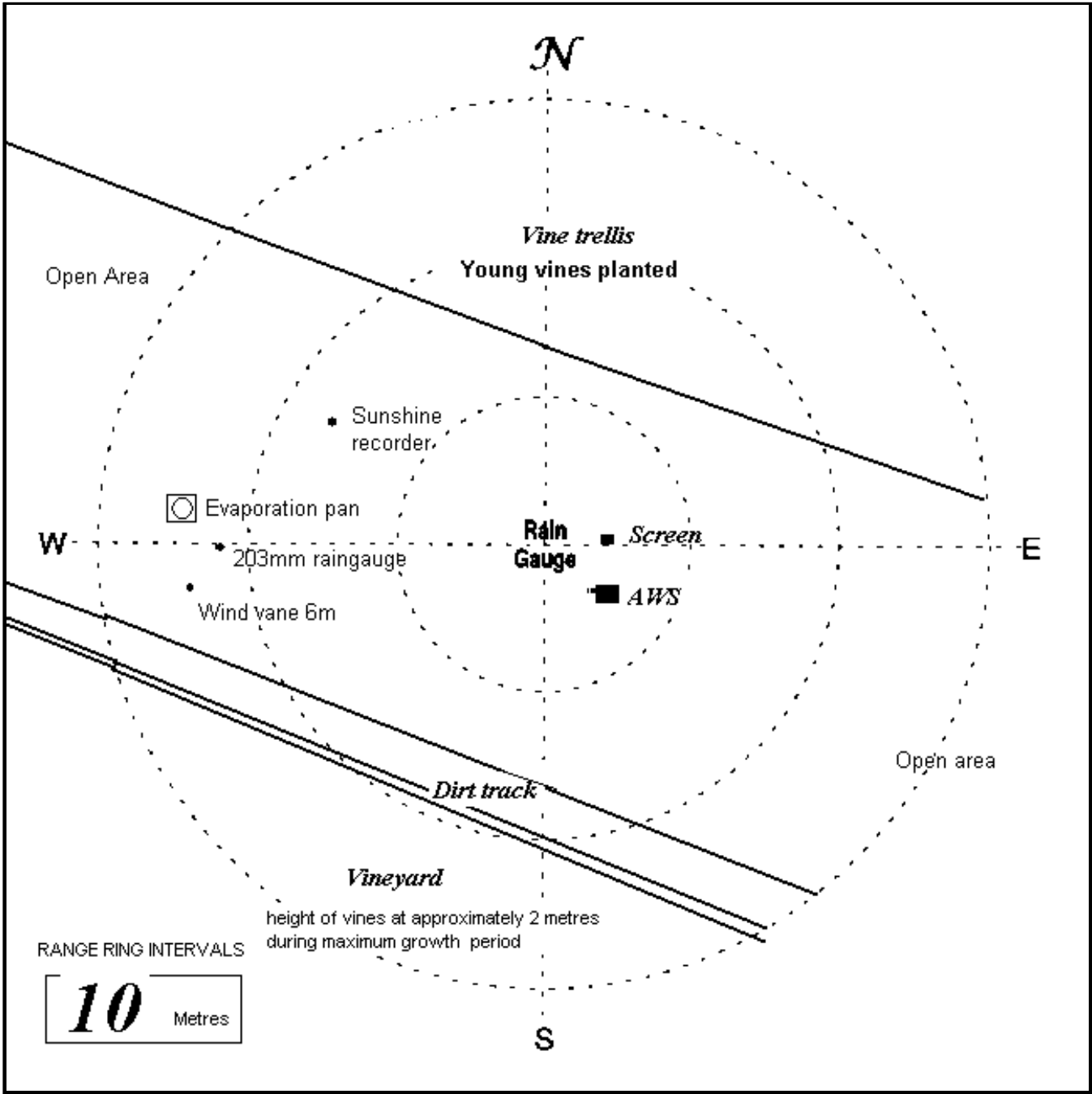
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Extended Climatological Station Metadata
All History

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						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
15/07/2004



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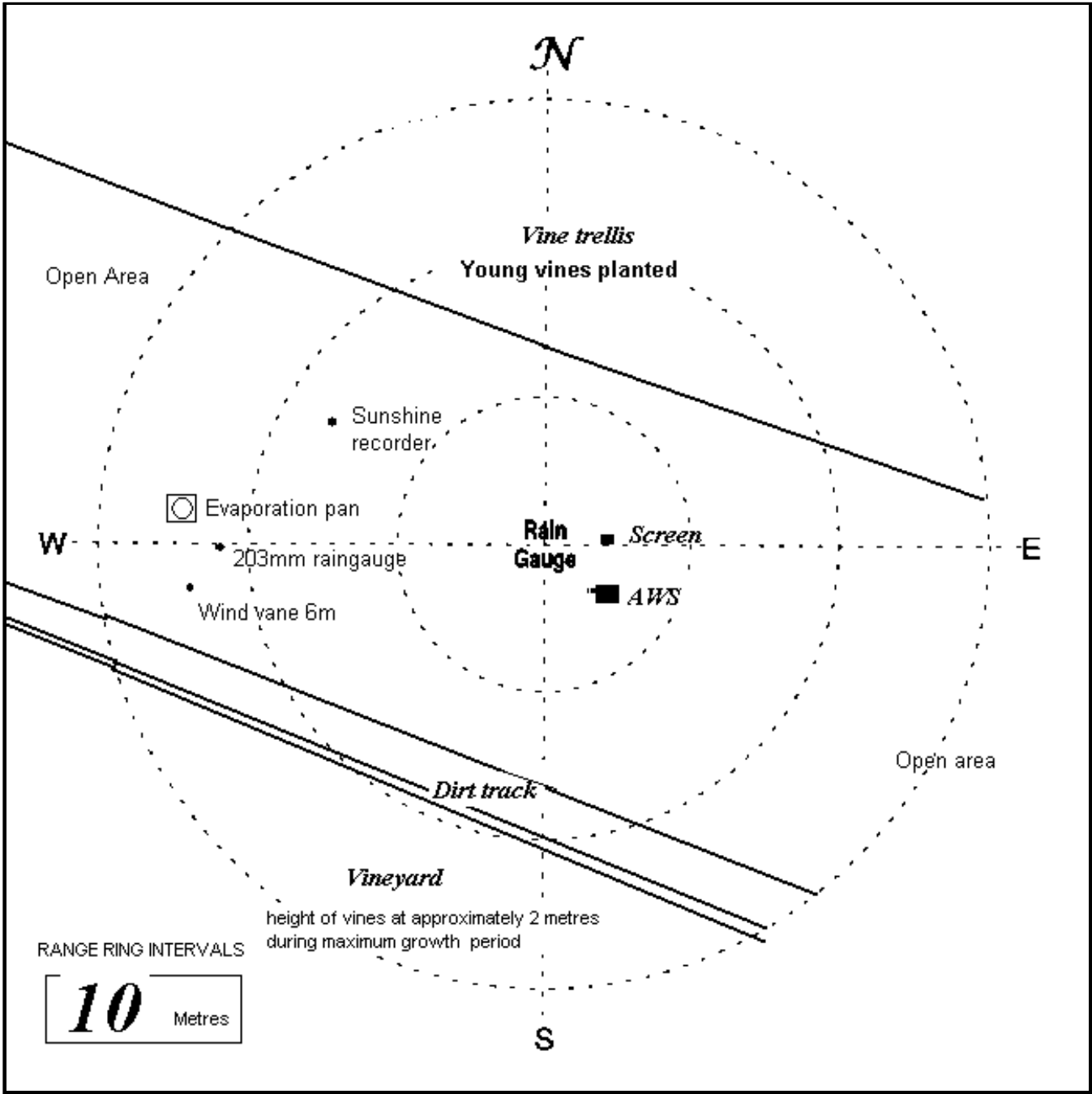
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Extended Climatological Station Metadata
All History

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Instrument Location and Surrounding Features
10/12/2003



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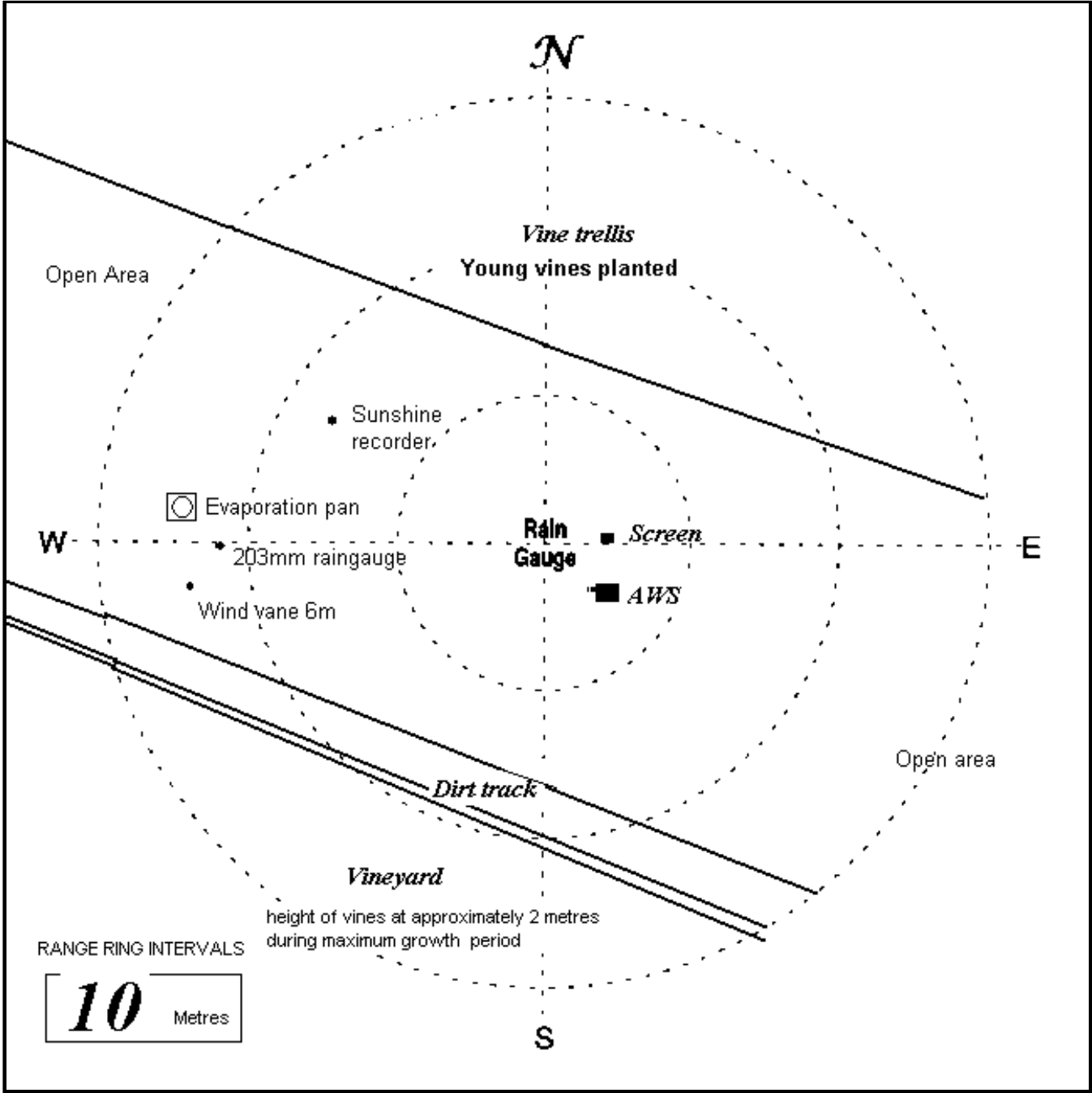
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Extended Climatological Station Metadata
All History

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						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
05/12/2002



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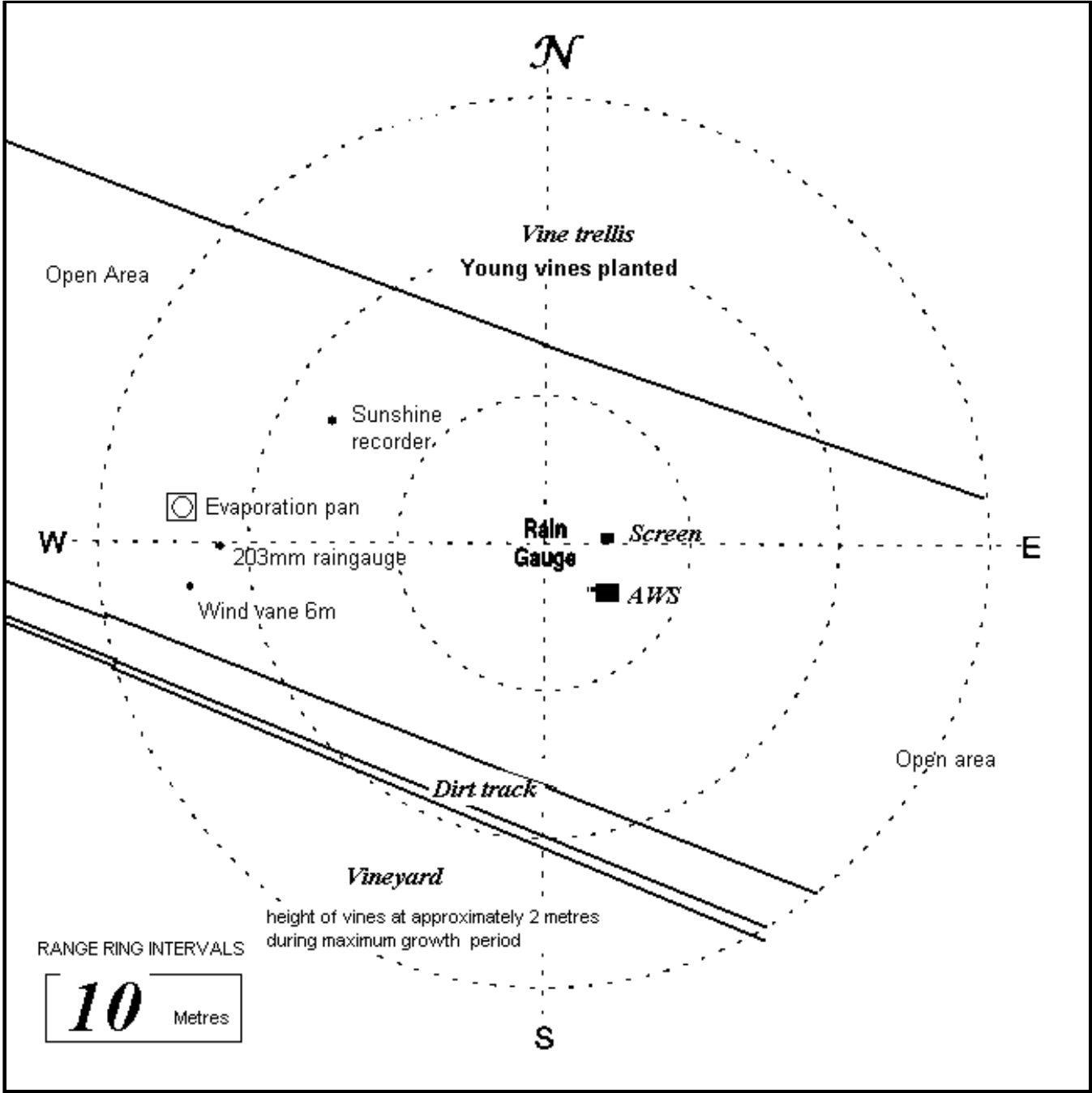
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Extended Climatological Station Metadata
All History

Station:	NURIOOTPA PIRSA		Location:	NURIOOTPA PIRSA		State:	SA
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Instrument Location and Surrounding Features
16/07/2001



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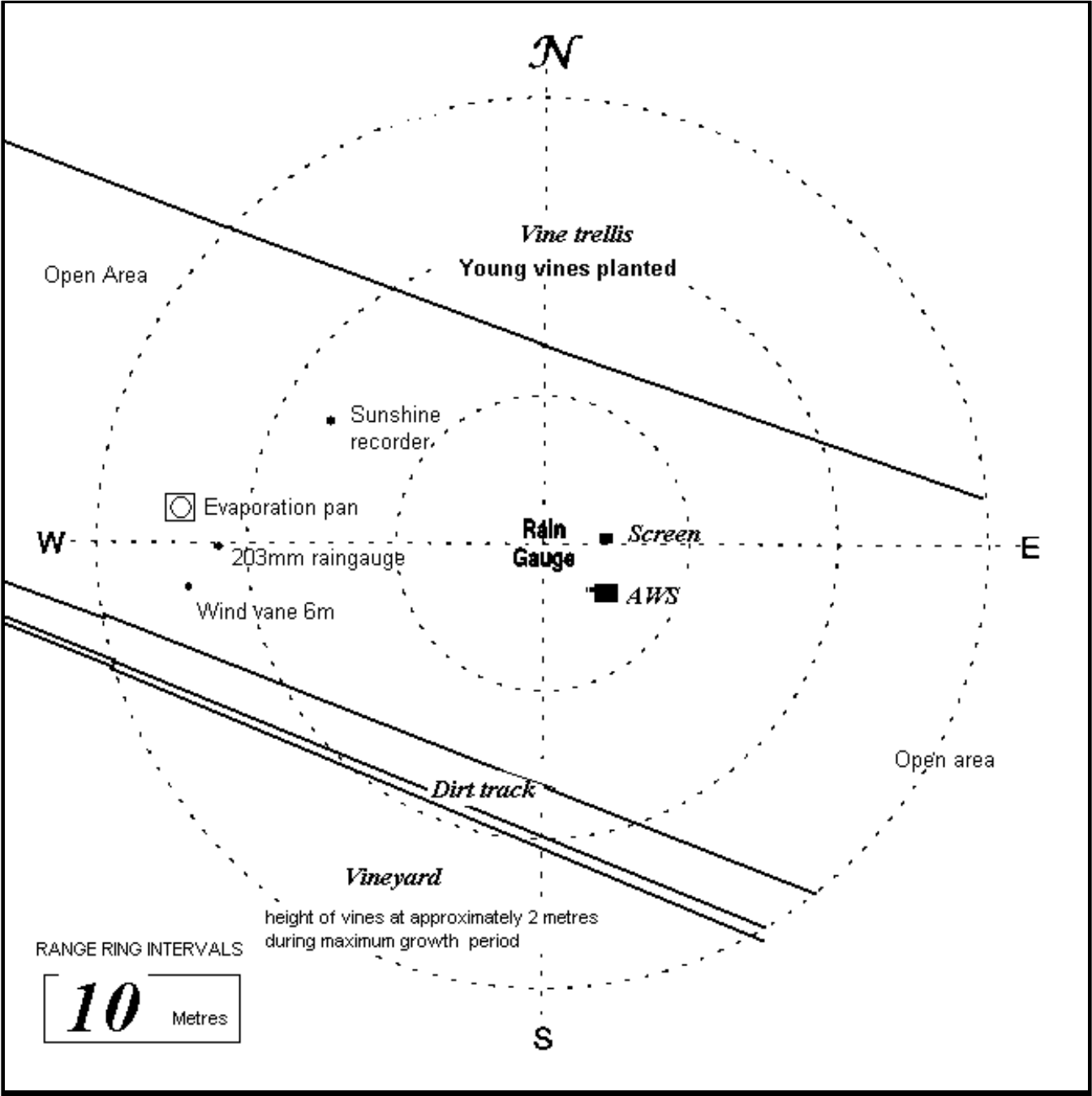
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Extended Climatological Station Metadata
All History

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						Metadata compiled:	28 JUL 2025

Instrument Location and Surrounding Features
10/11/1999



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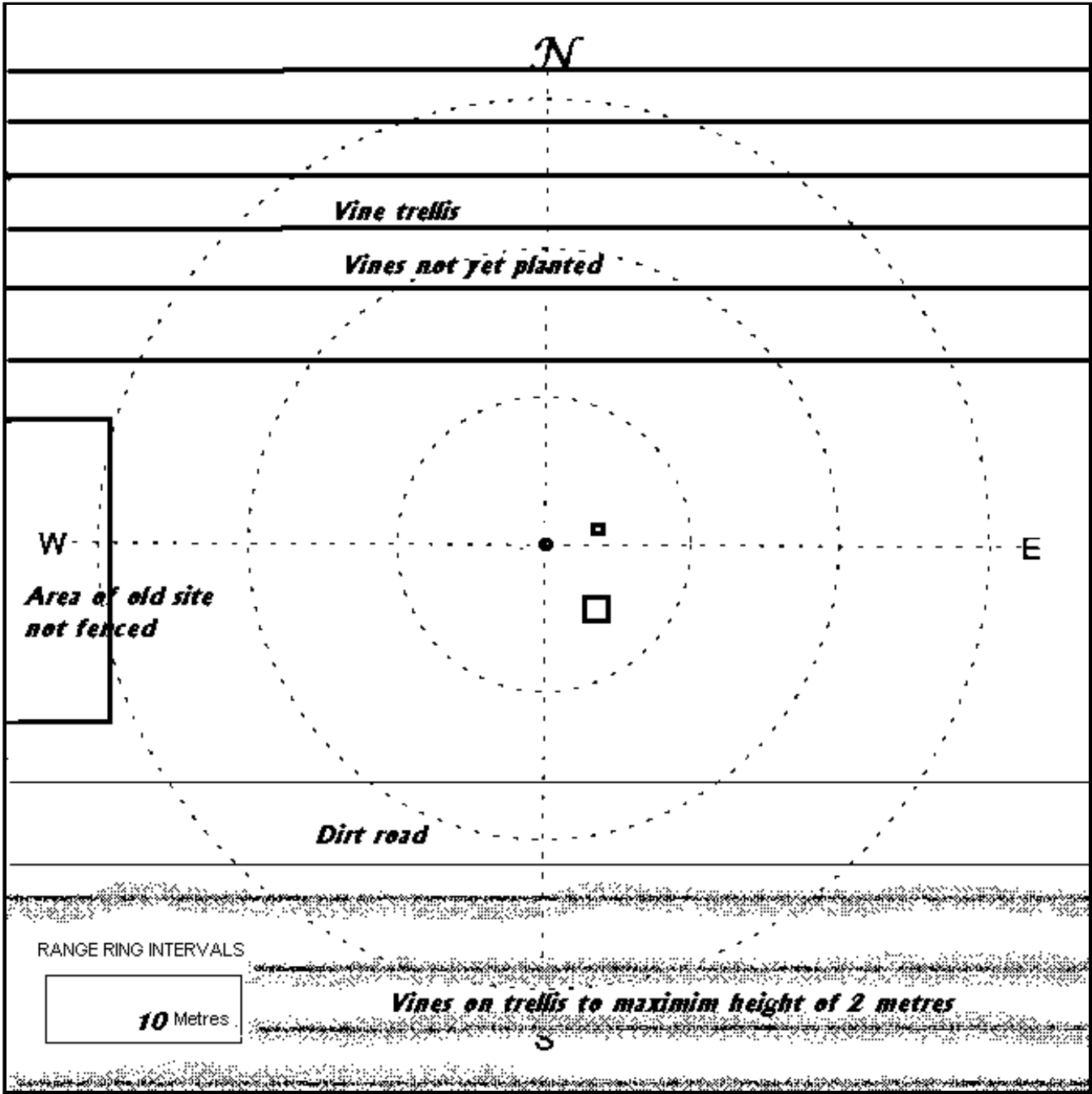
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Extended Climatological Station Metadata
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Instrument Location and Surrounding Features
11/02/1999



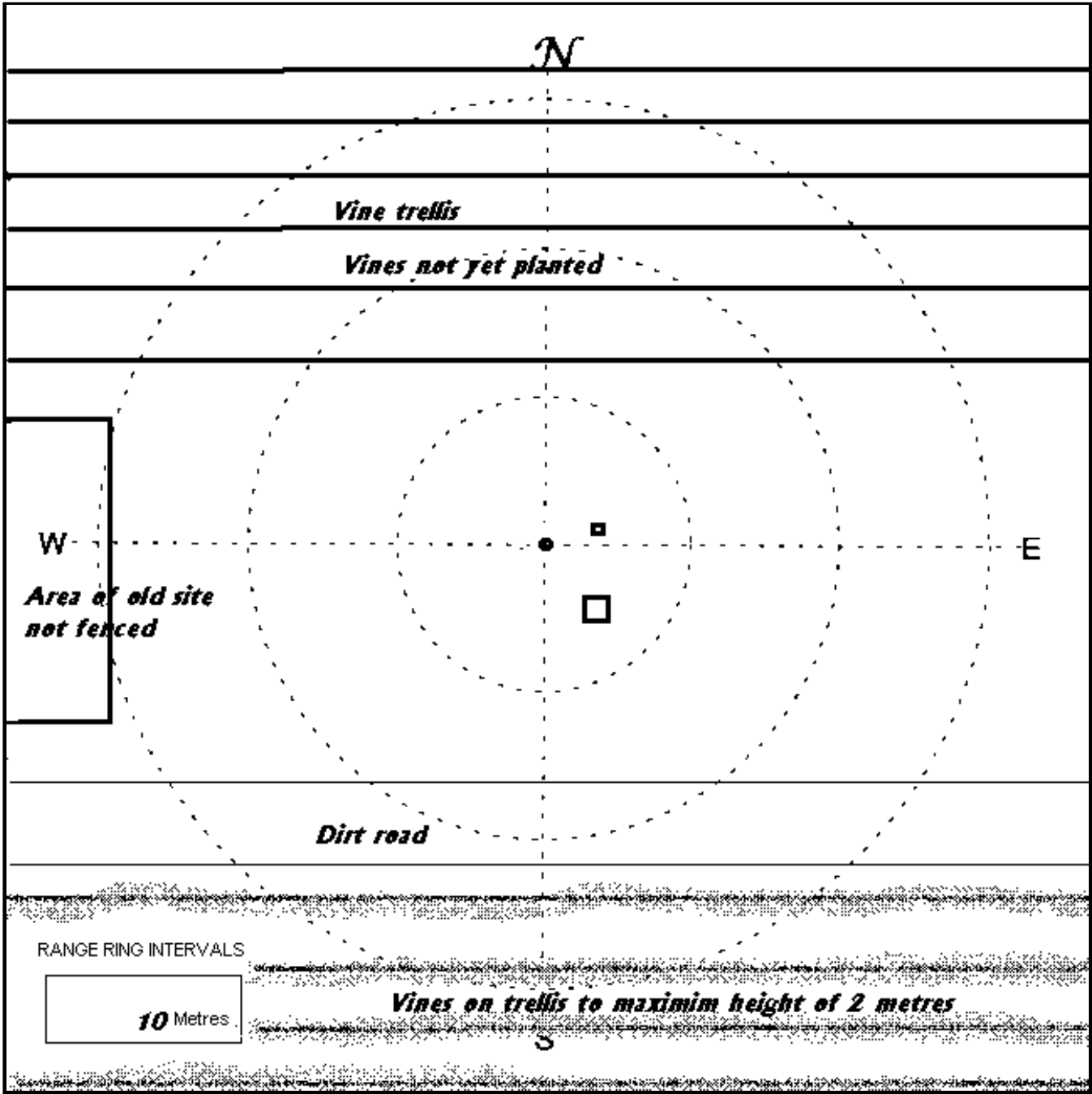
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Extended Climatological Station Metadata
All History

Station:	NURIOOTPA PIRSA		Location:	NURIOOTPA PIRSA		State:	SA
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Instrument Location and Surrounding Features
28/08/1996



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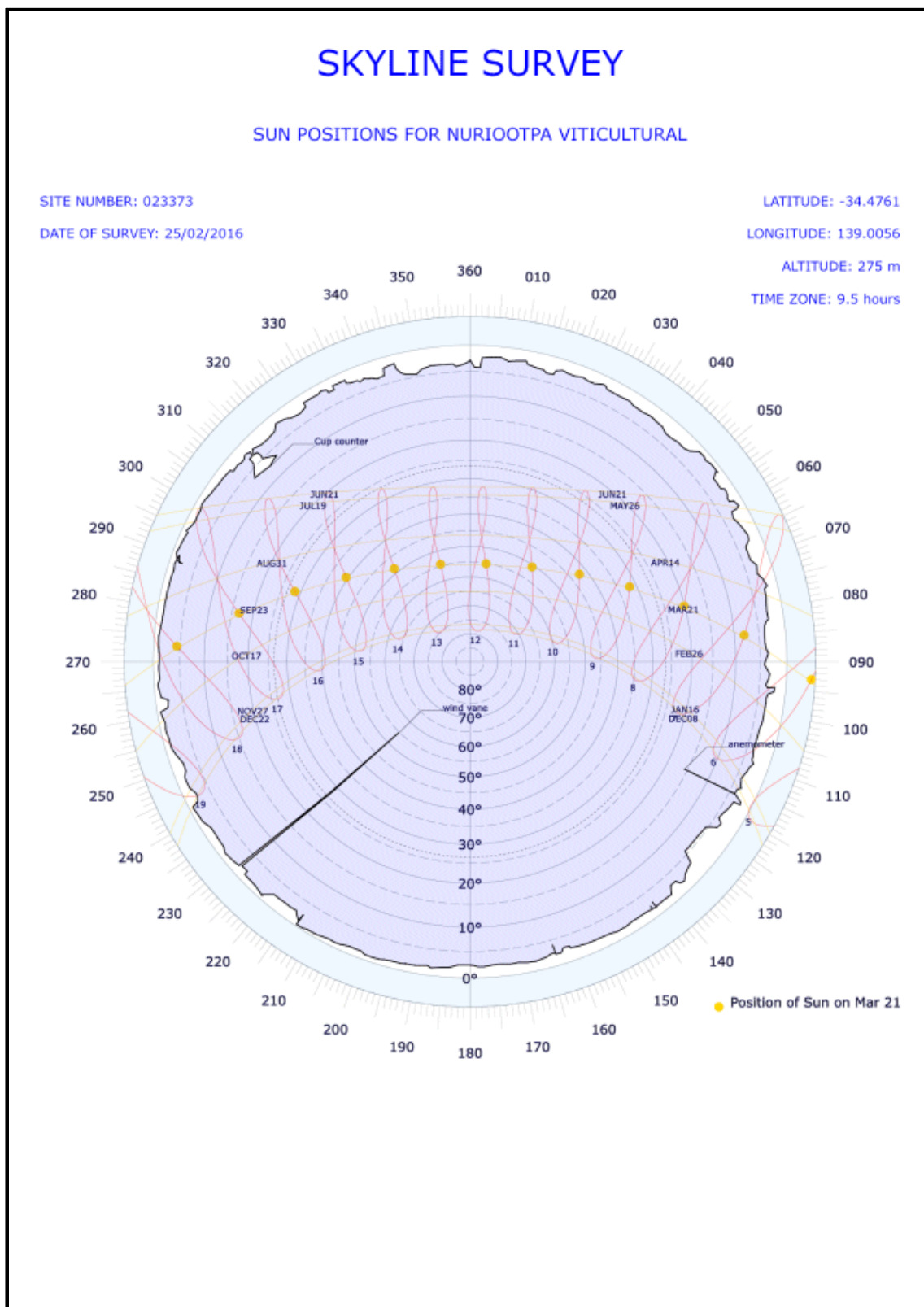
Extended Climatological Station Metadata

All History

Station:	NURIOOTPA PIRSA	Location:	NURIOOTPA PIRSA	State:	SA
Bureau No.:	023373	WMO No.:	94681	Aviation ID:	NURI
Latitude:	-34.4761	Longitude:	139.0056	Opened:	28 Aug 1996
		Elevation:	275 m	Barometer Elev:	276 m
				Current Status:	Still open
				Metadata compiled:	28 JUL 2025

Skyline Diagram

25/02/2016(most recent)



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Extended Climatological Station Metadata

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						Current Status:	Still open
						Metadata compiled:	28 JUL 2025

Skyline Diagram

23/12/2010

SKYLINE SURVEY

SUN POSITIONS FOR NURIOOTPA VITICULTURAL

SITE NUMBER: 23373

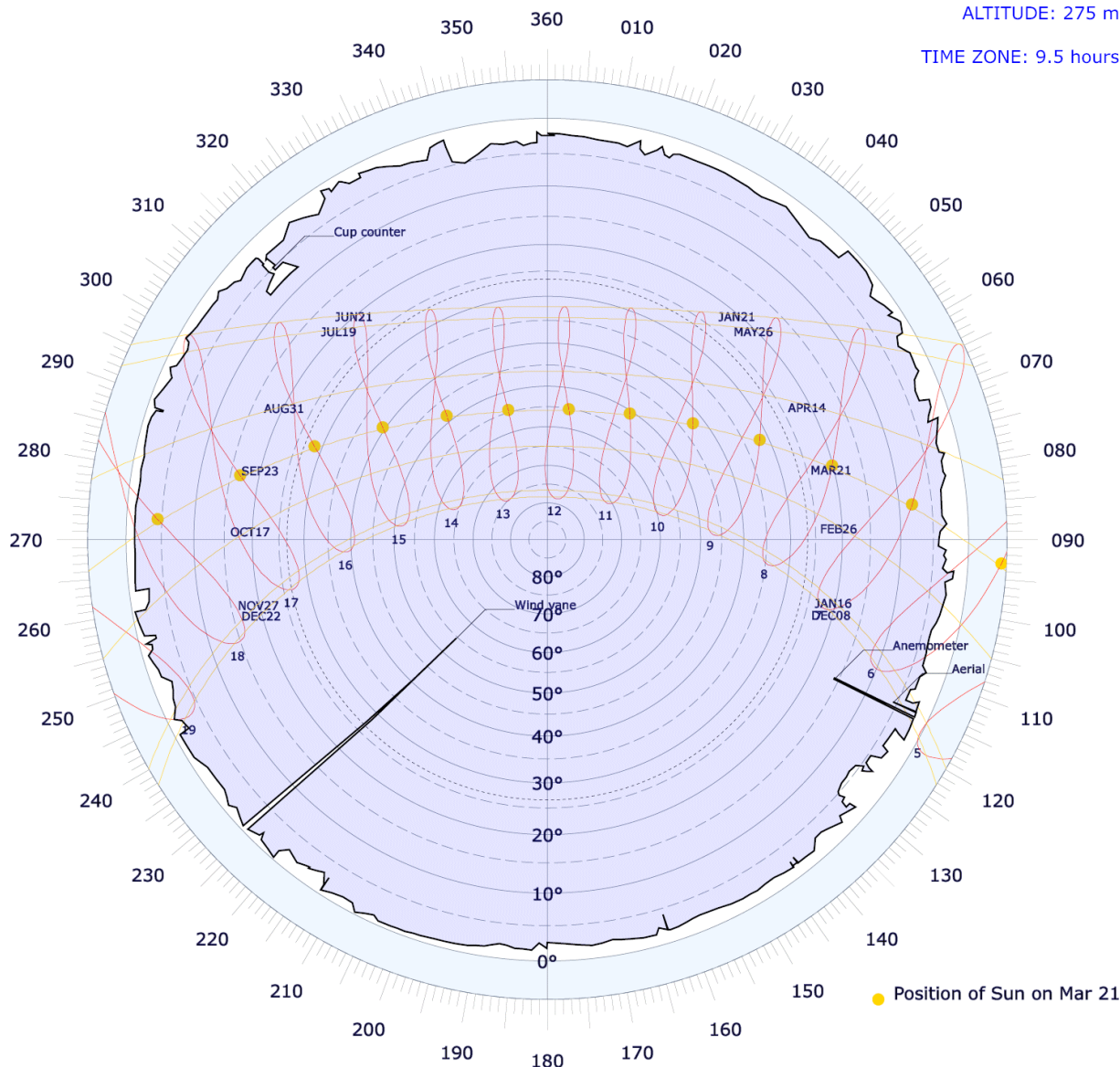
DATE OF SURVEY: 23-12-2010

LATITUDE: -34.4761

LONGITUDE: 139.0056

ALTITUDE: 275 m

TIME ZONE: 9.5 hours



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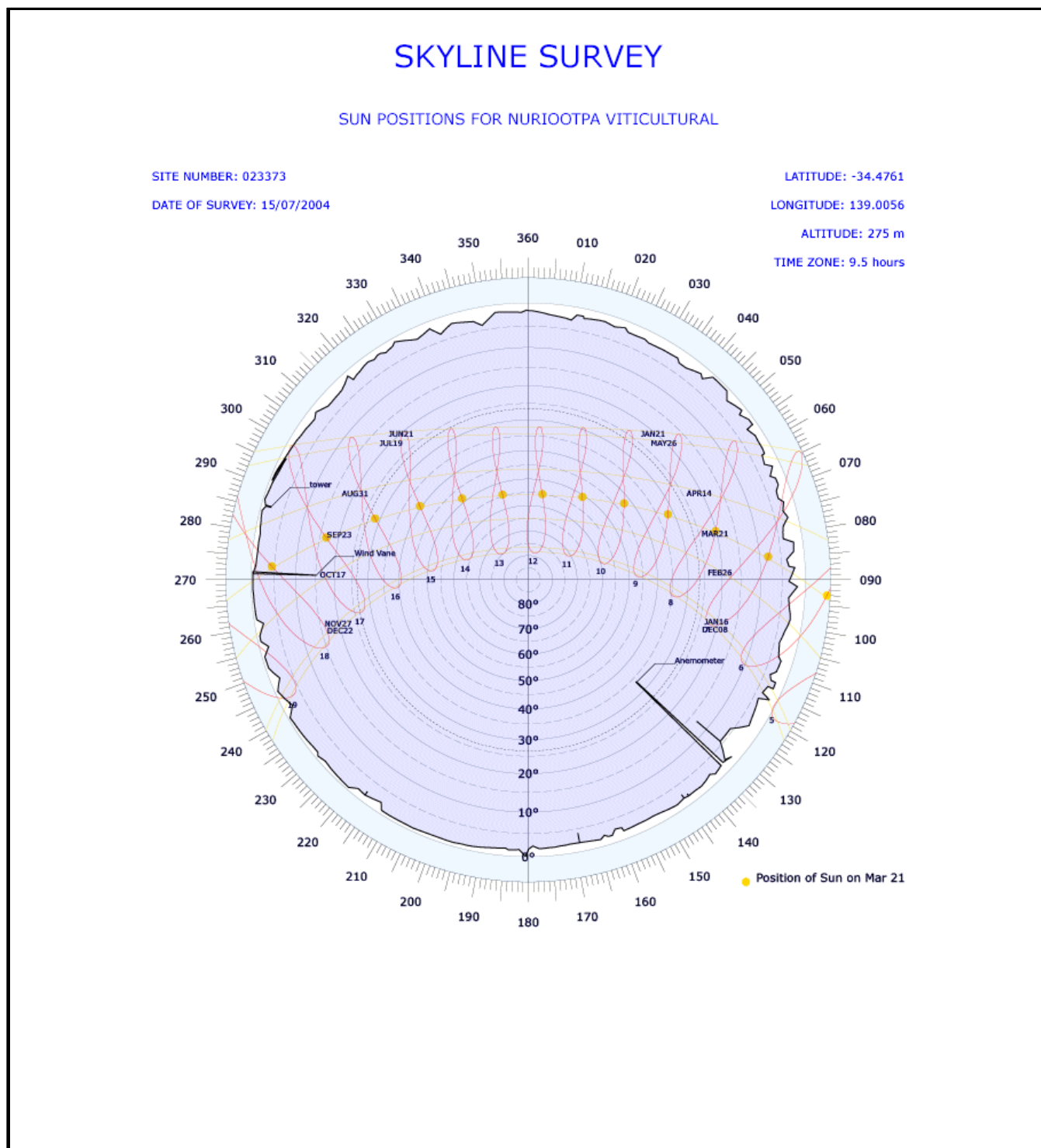
Extended Climatological Station Metadata

All History

Station:	NURIOOTPA PIRSA		Location:	NURIOOTPA PIRSA		State:	SA
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Skyline Diagram

15/07/2004



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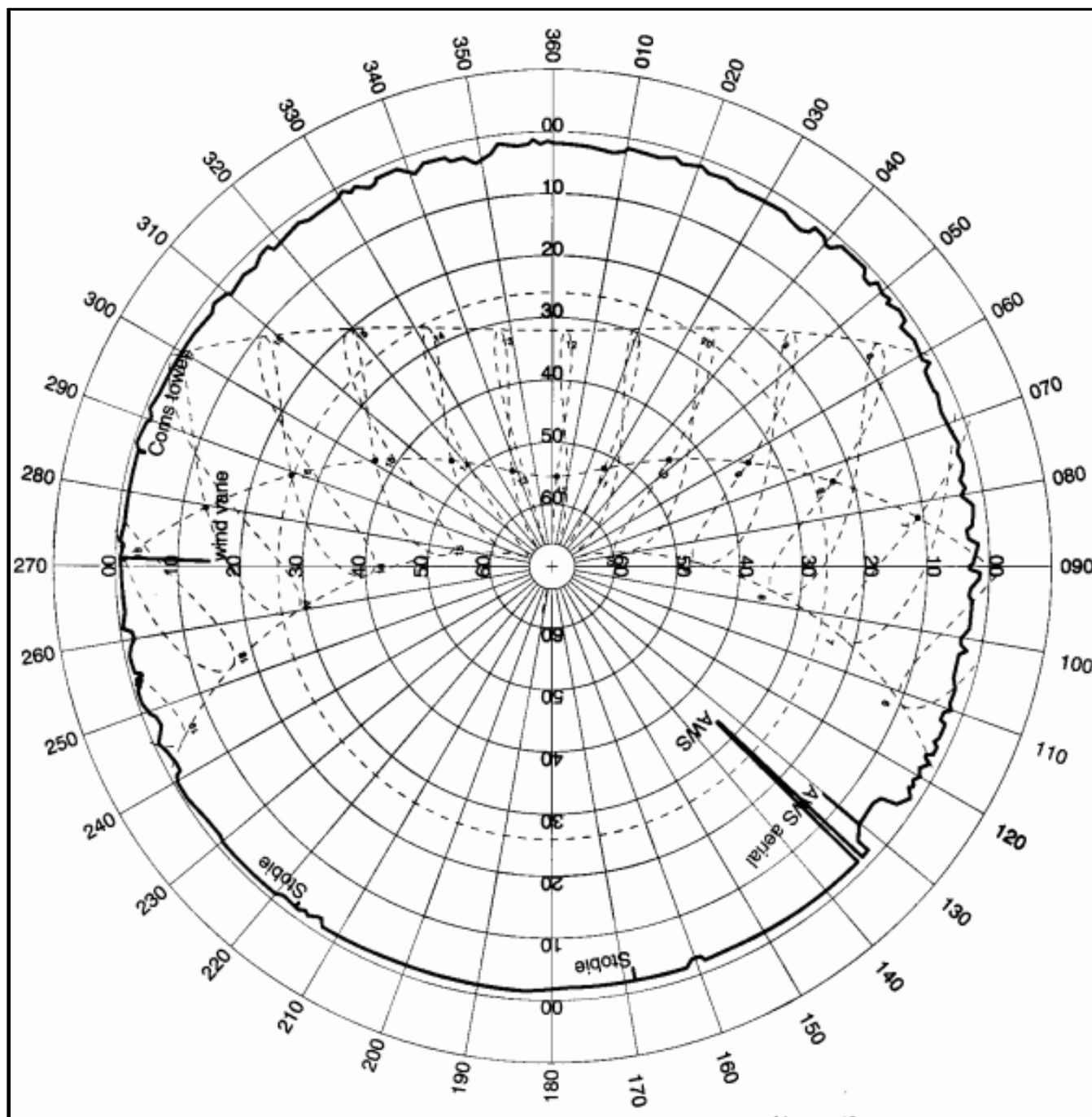
Extended Climatological Station Metadata

All History

Station:	NURIOOTPA PIRSA		Location:	NURIOOTPA PIRSA		State:	SA
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Skyline Diagram

10/11/1999



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Extended Climatological Station Metadata

All History

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Latitude: -34.4761	Longitude: 139.0056	Elevation: 275 m	Barometer Elev: 276 m		Metadata compiled: 28 JUL 2025		

Station Observation Program Summary (Surface Observations) from 28/08/1996 to 25/02/1997

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	-	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 25/02/1997 to 18/11/2010

Current Observation	Continuous	Half Hourly	Hourly
Surface Observations	-	-	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 18/11/2010 to 10/01/2015

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 10/01/2015 to 01/08/2021

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

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Bureau No.: 023373		WMO No.: 94681		Aviation ID: NURI		Opened: 28 Aug 1996		Current Status: Still open	
Latitude: -34.4761		Longitude: 139.0056		Elevation: 275 m		Barometer Elev: 276 m		Metadata compiled: 28 JUL 2025	

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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All History

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Latitude:	-34.4761	Longitude:	139.0056	Elevation:	275 m	Barometer Elev:	276 m
Current Status:							Still open
Metadata compiled:							28 JUL 2025

Station Equipment History

Equipment Install/Remove

Cloud Height (No Electronic History)

Humidity

15/JUL/2019 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 61144936) Surface Observations
10/SEP/2020 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - D3040012) Surface Observations

Pressure Trend (No Electronic History)

Lightning (No Electronic History)

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

28/AUG/1996 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 72377) Surface Observations
28/AUG/1996 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 72349) Surface Observations
28/AUG/1996 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
03/JAN/1999 INSTALL Wind Run Anemometer (Type Synchrotac S/N - CBM544) Surface Observations
15/JUL/2019 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 110177) Surface Observations
10/AUG/2021 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 64452) Surface Observations
26/JUN/2006 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 73482) Surface Observations
02/JUL/2009 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 78289) Surface Observations
15/JUN/2011 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 94204) Surface Observations
10/AUG/2021 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 031220) Surface Observations
02/JUL/2009 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 78220) Surface Observations
17/DEC/2012 REPLACE Wind Run Anemometer (Now Synchrotac Cups - Type 732 S/N - CBM537) Surface Observations

Wet Bulb Temperature

28/AUG/1996 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 0076) Surface Observations
15/JUL/2019 REMOVE Temperature Probe - Wet Bulb (Type WIKA TR40 S/N - 58336-1) Surface Observations
03/NOV/1999 REPLACE Temperature Probe - Wet Bulb (Now Rosemount S/N - 0432) Surface Observations
31/OCT/2008 REPLACE Temperature Probe - Wet Bulb (Now WIKA TR40 S/N - 58336-1) Surface Observations

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature (No Electronic History)

Soil Temperature 10cm

19/DEC/2006 INSTALL Thermometer, Soil, 10cm (Type Amarol S/N - 0398745) Surface Observations
05/AUG/2021 REMOVE Thermometer, Soil, 10cm (Type Dobros S/N - M2285) Surface Observations
15/JUL/2019 REPLACE Thermometer, Soil, 10cm (Now Dobros S/N - M2285) Surface Observations

Soil Temperature 20cm

19/DEC/2006 INSTALL Thermometer, Soil, 20cm (Type Amarol S/N - 0398732) Surface Observations
05/AUG/2021 REMOVE Thermometer, Soil, 20cm (Type Unknown S/N - 9566407) Surface Observations
31/AUG/2020 REPLACE Thermometer, Soil, 20cm (Now Unknown S/N - 9566407) Surface Observations

Soil Temperature 50cm

19/DEC/2006 INSTALL Thermometer, Soil, 50cm (Type Amarol S/N - 9984523) Surface Observations
05/AUG/2021 REMOVE Thermometer, Soil, 50cm (Type Amarol S/N - 0673657) Surface Observations
12/APR/2018 REPLACE Thermometer, Soil, 50cm (Now Amarol S/N - 0673657) Surface Observations
22/APR/2008 REPLACE Thermometer, Soil, 50cm (Now Unknown S/N - M6759) Surface Observations

Snow Height (No Electronic History)

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Extended Climatological Station Metadata
All History

Station:	NURIOOTPA PIRSA		Location:	NURIOOTPA PIRSA		State:	SA
Bureau No.:	023373	WMO No.:	94681	Aviation ID:	NURI	Opened:	28 Aug 1996
Latitude:	-34.4761	Longitude:	139.0056	Elevation:	275 m	Barometer Elev:	276 m
Metadata compiled:							28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

Soil Temperature 100cm

19/DEC/2006 INSTALL Thermometer, Soil, 100cm (Type Amarol S/N - 0010806) Surface Observations
05/AUG/2021 REMOVE Thermometer, Soil, 100cm (Type Amarol S/N - 0269682) Surface Observations
18/DEC/2018 REPLACE Thermometer, Soil, 100cm (Now Amarol S/N - 0269682) Surface Observations

Sunshine Hours

01/MAR/1999 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - M8806) Surface Observations
05/AUG/2021 REMOVE Sunshine Recorder (Type Campbell-Stokes S/N - M8806) Surface Observations

Wind Run

03/JAN/1999 INSTALL Wind Run Anemometer (Type Synchrotac S/N - CBM544) Surface Observations
17/DEC/2012 REPLACE Wind Run Anemometer (Now Synchrotac Cups - Type 732 S/N - CBM537) Surface Observations

Minimum Temperature (No Electronic History)

Terrestrial Minimum Temperature

03/JAN/1999 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - Unknown) Surface Observations
05/AUG/2021 REMOVE Thermometer, Terrestrial, Min (Type WIKA S/N - 33773) Surface Observations
12/AUG/2014 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 15636) Surface Observations
09/OCT/1999 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 19002) Surface Observations
25/JUN/2003 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 22121) Surface Observations
01/MAY/2004 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 23364) Surface Observations
04/FEB/2005 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 23364) Surface Observations
13/NOV/2005 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 25944) Surface Observations
24/JUN/2013 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 27592) Surface Observations
08/OCT/1999 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - 3798) Surface Observations
11/DEC/2001 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - CBM5055) Surface Observations
30/AUG/1999 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M0203) Surface Observations
19/NOV/2000 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M0203) Surface Observations
15/JUL/2004 REPLACE Thermometer, Terrestrial, Min (Now Dobbie S/N - M1516) Surface Observations
03/OCT/2006 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 043043) Surface Observations
15/NOV/2007 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 27662) Surface Observations
01/SEP/2008 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 29055) Surface Observations
23/DEC/2010 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 31290) Surface Observations
21/JAN/2021 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 33773) Surface Observations
19/JUN/2020 REPLACE Thermometer, Terrestrial, Min (Now WIKA S/N - 33834) Surface Observations

Visibility (No Electronic History)

Soil Temperature 5cm

19/DEC/2006 INSTALL Thermometer, Soil, 5cm (Type Amarol S/N - 12421) Surface Observations
05/AUG/2021 REMOVE Thermometer, Soil, 5cm (Type Amarol S/N - 12421) 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

28/AUG/1996 INSTALL Barometer (Type Vaisala PA11A S/N - P4110013) Surface Observations

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Extended Climatological Station Metadata

All History

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Latitude:	-34.4761	Longitude:	139.0056	Elevation:	275 m	Barometer Elev:	276 m
Current Status:							Still open
Metadata compiled:							28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

13/OCT/2004 REPLACE Barometer (Now Vaisala PTB220B S/N - U0530009) Surface Observations
25/OCT/2013 REPLACE Barometer (Now Vaisala PTB330B (General Use) S/N - J3750025) Surface Observations

Evaporation

03/JAN/1999 INSTALL Evaporation Pan (Type Class A S/N - NONE) Surface Observations
19/NOV/2009 REPLACE Evaporation Pan (Now Class A S/N - NONE) Surface Observations

Rainfall

03/JAN/1999 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - NONE) Surface Observations
28/AUG/1996 INSTALL Raingauge (Type HS TB3A-0.2 S/N - 96-183) Rainfall Intensity
28/AUG/1996 INSTALL Raingauge (Type HS TB3A-0.2 S/N - 96-183) Surface Observations
13/DEC/2001 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 438) Rainfall Intensity
13/DEC/2001 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 438) Surface Observations
22/JUL/2005 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 84663) Rainfall Intensity
22/JUL/2005 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 84663) Surface Observations
19/SEP/2016 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 84665) Rainfall Intensity
19/SEP/2016 REPLACE Raingauge (Now Rimco 7499 TBRG S/N - 84665) Surface Observations
13/DEC/2000 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 313190) Rainfall Intensity
13/DEC/2000 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 313190) Surface Observations
28/DEC/2000 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 331) Rainfall Intensity
28/DEC/2000 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 331) Surface Observations
18/DEC/2018 UNSHARE Raingauge (Type Rimco 7499 TBRG S/N - 84665) 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

28/AUG/1996 INSTALL Anemometer (Type Synchrotac Cups - Type 732 S/N - 72377) Surface Observations
28/AUG/1996 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 72349) Surface Observations
28/AUG/1996 INSTALL Mast Anemometer (Type Pivot, Standard 8m S/N - NONE) Infrastructure
03/JAN/1999 INSTALL Wind Run Anemometer (Type Synchrotac S/N - CBM544) Surface Observations
15/JUL/2019 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 110177) Surface Observations
10/AUG/2021 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 64452) Surface Observations
26/JUN/2006 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 73482) Surface Observations
02/JUL/2009 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 78289) Surface Observations
15/JUN/2011 REPLACE Anemometer (Now Synchrotac Cups - Type 732 S/N - 94204) Surface Observations
10/AUG/2021 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 031220) Surface Observations
02/JUL/2009 REPLACE Anemometer (Now Synchrotac Vane - Type 706 S/N - 78220) Surface Observations
17/DEC/2012 REPLACE Wind Run Anemometer (Now Synchrotac Cups - Type 732 S/N - CBM537) Surface Observations

Air Temperature

15/JUL/2019 INSTALL Humidity Probe (Type Rotronics MP101A-T4-W4W S/N - 61144936) Surface Observations
10/SEP/2020 REPLACE Humidity Probe (Now Vaisala HMP45D S/N - D3040012) Surface Observations
28/AUG/1996 INSTALL Temperature Probe - Dry Bulb (Type Rosemount ST2401 S/N - 0163) Surface Observations

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Extended Climatological Station Metadata
All History

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Latitude:	-34.4761	Longitude:	139.0056	Elevation:	275 m	Current Status:	Still open
						Barometer Elev:	276 m
							Metadata compiled: 28 JUL 2025

Station Equipment History (continued)

Equipment Install/Remove(Continued)

05/AUG/2021 REPLACE Temperature Probe - Dry Bulb (Now Rosemount ST2401 S/N - 0558) Surface Observations

Surface Inclination (No Electronic History)

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
15/JUL/2019 - 05/AUG/2021	Humidity	2
18/SEP/1997 - 10/AUG/2021	Wind Direction	14
18/SEP/1997 - 15/JUL/2019	Wet Bulb Temperature	3
19/DEC/2006 - 05/AUG/2021	Soil Temperature 10cm	0
19/DEC/2006 - 05/AUG/2021	Soil Temperature 20cm	1
19/DEC/2006 - 05/AUG/2021	Soil Temperature 50cm	0
19/DEC/2006 - 05/AUG/2021	Soil Temperature 100cm	0
10/NOV/1999 - 05/AUG/2021	Wind Run	0
10/NOV/1999 - 05/AUG/2021	Terrestrial Minimum Temperature	1
19/DEC/2006 - 05/AUG/2021	Soil Temperature 5cm	0
18/SEP/1997 - 05/AUG/2021	Pressure	0
13/DEC/2000 - 05/AUG/2021	Evaporation	0
18/SEP/1997 - 05/AUG/2021	Rainfall	6
18/SEP/1997 - 10/AUG/2021	Wind Speed	14
18/SEP/1997 - 05/AUG/2021	Air Temperature	3

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)
01/SEP/2002	CLASSIFICATION CLIMAT Stations (CLC)
28/AUG/1996	CLASSIFICATION Climate (FCL)
01/JUL/2018	CLASSIFICATION HQ EVAPORATION (HQEVAP)
27/SEP/2021	CLASSIFICATION Mastered in EAMS (EAMS)
05/OCT/2001	CLASSIFICATION National Benchmark Network for Agrometeorology (NBNA)
01/JUL/2017	CLASSIFICATION Observing Operations Hub - Adelaide (OOH-A)
21/MAR/2016	CLASSIFICATION Processed by ASOS (PBA)
01/MAR/1999	CLASSIFICATION Reference Climate Stations (RCS) ENDED 30-06-2011
10/JAN/2011	CLASSIFICATION Standard (ASOSSTD)
05/JUN/2006	OBJECT Document/023373060605Letter
10/AUG/2009	OBJECT Document/023373090810letter
03/MAY/2010	OBJECT Document/023373100503coop_contract
25/OCT/2013	OBJECT Document/023373131025ASOS_Station_Configuration
15/JUL/2019	OBJECT Document/023373190715MastInspection
15/JUL/2019	OBJECT Document/023373190715TnT

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Extended Climatological Station Metadata
All History

Station:	NURIOOTPA PIRSA		Location:	NURIOOTPA PIRSA		State:	SA
Bureau No.:	023373	WMO No.:	94681	Aviation ID:	NURI	Opened:	28 Aug 1996
Latitude:	-34.4761	Longitude:	139.0056	Elevation:	275 m	Barometer Elev:	276 m
Current Status:							Still open
Metadata compiled:							28 JUL 2025

Station Equipment History (continued)

Station Detail Changes(Continued)

14/APR/2015 OBJECT Document/023373_Coop_Contract_RM_14042015
13/APR/2007 OBJECT Document/070413AgrometSensors
28/AUG/1996 OBJECT Document/23373 - Bar co-efficients
04/OCT/2011 OBJECT Document/AWS SITE AUDIT
11/JAN/2019 OBJECT Document/OCR 2016-004 RH Probes Approved Forms 9 Feb 2017
15/JUL/2004 OBJECT Document/SKYLINE DATA
23/DEC/2010 OBJECT Document/SKYLINE DATA
25/FEB/2016 OBJECT Document/SKYLINE DATA
21/FEB/2011 OBJECT Document/metconsole_stationconfig_023373110221
28/AUG/1996 STATION - (nondb seeding) Opened
28/AUG/1996 STATION - (nondb seeding) bar_ht Changed to 276
28/AUG/1996 STATION - (nondb seeding) bar_ht_deriv Changed to MAP 1:50 000
28/AUG/1996 STATION - (nondb seeding) name Changed to NURIOOTPA VITICULTURAL
28/AUG/1996 STATION - (nondb seeding) stn_ht Changed to 275
28/AUG/1996 STATION - (nondb seeding) stn_ht_deriv Changed to MAP 1:50 000
28/AUG/1996 STATION - (nondb seeding) wmo_num Changed to 94681
28/AUG/1996 STATION aviation_id Changed to NURI
28/AUG/1996 STATION latitude Changed to -34.47613
28/AUG/1996 STATION latlon_deriv Changed to GPS
28/AUG/1996 STATION latlon_error Changed to 4.9
28/AUG/1996 STATION longitude Changed to 139.00558
28/AUG/1996 STATION lu_0_100m Changed to Open farmland, grassland or tundra
28/AUG/1996 STATION lu_100m_1km Changed to Town 1000 to 10,000
28/AUG/1996 STATION lu_1km_10km Changed to Town 1000 to 10,000
25/FEB/2016 STATION name Changed to NURIOOTPA PIRSA
07/APR/1998 STATION soil_type Changed to clay
10/DEC/2003 STATION surface_type Changed to mostly covered by grass
10/NOV/1999 STATION surface_type Changed to mostly covered by grass
13/DEC/2000 STATION surface_type Changed to partly covered by grass
07/APR/1998 STATION surface_type Changed to partly covered by grass

System Changes

15/AUG/2013 SYSTEM External Clients Commenced
28/AUG/1996 SYSTEM Infrastructure Commenced
18/DEC/2018 SYSTEM Rainfall Intensity Ceased
13/AUG/1996 SYSTEM Rainfall Intensity Commenced
28/AUG/1996 SYSTEM Surface Observations Commenced

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.

Notes on these metadata

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

Reliability of the metadata

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

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

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

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

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

Station Number

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

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

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Notes on these metadata

Network Classification

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

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

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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

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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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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