



Climatological Gridded Data

The Bureau of Meteorology can provide you with monthly and annual average or actual gridded datasets for Australia. These datasets can be ported into a GIS or similar visualization system, and can be used to investigate the data or generate maps. A list of these gridded datasets is shown below.

If you wish to obtain the gridded datasets, we will need to know:

- The type of grid (meteorological element) you require - see table below.
- The period - month or months and/or annual (* annual only).
- The area you need - all Australia, a particular State/s or define a latitude/longitude boundary box.
- The output format or formats you require - see table below.

Grid type		Grid resolution (degrees/km)
AVERAGE OR CLIMATOLOGICAL DATA		
	Averaging Period	
Rainfall	1961-90	0.025 deg/2.5 km (approx.)
Max Temperature	1961-90	0.025 deg/2.5 km (approx.)
Min Temperature	1961-90	0.025 deg/2.5 km (approx.)
Areal Actual ET	1961-90	0.1 deg/10 km (approx.)
Point Potential ET	1961-90	0.1 deg/10 km (approx.)
Areal Potential ET	1961-90	0.1 deg/10 km (approx.)
Relative Humidity 9am	1961-90	0.1 deg/10 km (approx.)
Relative Humidity 3pm	1961-90	0.1 deg/10 km (approx.)
Sunshine Hours	At least 15 years of records	0.25 deg/25 km (approx.)
Evaporation (Class A Pan)	At least 10 years of records	0.25 deg/25 km (approx.)
Rainfall Variability	1900-2002	0.25 deg/25 km (approx.)
Days of Rain	1961-90*	0.1 deg/10 km (approx.)
Heating Degree Days (Base temp. 12°C or 18°C)	1961-90	0.1 deg/10 km (approx.)
Cooling Degree Days (Base temp. 18°C or 24°C)	1961-90	0.1 deg/10 km (approx.)
Thunder Days	1990-99*	0.25 deg/25 km (approx.)
Tropical Cyclone (TC)	1969/70-1998/99*	2 deg/200 km (approx.)
Lightning	1995-99*	0.25 deg/25 km (approx.)
ACTUAL DATA		
	Period	
Rainfall	1900 onward	0.25 deg/25 km (approx.)
Rainfall Percentiles	1900 onward	0.25 deg/25 km (approx.)
Max Temperature	1950 onward	0.25 deg/25 km (approx.)
Max Temp Anomaly	1950 onward	0.25 deg/25 km (approx.)
Min Temperature	1950 onward	0.25 deg/25 km (approx.)
Min Temp Anomaly	1950 onward	0.25 deg/25 km (approx.)
Temperature Percentiles	1950 onward	0.25 deg/25 km (approx.)

Grid coverage - all Australia, individual states or any rectangular area within Australia.

Output formats - ASCII row major format, Arc/Info™ grid interchange (.e00) files, point-based shapefiles.

Projection - GDA94

Metadata - Metadata for the grids are provided.

ArcGis - if you use ArcGis and have the Spatial Analyst™ extension, you will be able to import the grids as either ASCII files or Arc/Info™ grid interchange (.e00) files.

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