



**Australian Government**  
**Bureau of Meteorology**

**Gridded High Resolution Decadal and Multi-Decadal Temperature Metadata**

<b>Dataset</b>	
Title	High resolution decadal and multi-decadal temperature gridded datasets from 1900 onwards.
<b>Custodian</b>	
Custodian	Bureau of Meteorology
Jurisdiction	Australia
<b>Description</b>	
Abstract	The grids show the temperature values across Australia in the form of two-dimensional array data. The data extend from 1900 onwards. See LINEAGE below for more information.
Search Word(s)	Gridded, analyses, temperature, meteorology
Geographic Extent Names(s)	Australia
General Category	Gridded monthly and annual data
General Custodian Jurisdiction	Australian Government Australia
Geographic Extent Polygon	Not applicable
Geographic Bounding Box	See Below
North Bounding Latitude	-9.975
South Bounding Latitude	-44.525
East Bounding Longitude	156.275
West Bounding Longitude	111.975
<b>Data Currency</b>	
Beginning Date	1900
Ending Date	Current
<b>Dataset Status</b>	
Progress	Completed
Maintenance and Update frequency	Ongoing
<b>Access</b>	
Stored Data Format	Arc/Info grids--all Australia
Available Format Type	ASCII row major, Arc/Info grid Interchange (.e00), Shapefiles

Access Constraint	Please note that the copyright for any data supplied by the Bureau of Meteorology is held in the Commonwealth of Australia and the purchaser shall give acknowledgement of the source in reference to the data. Apart from dealings under the Copyright Act 1968, the purchaser shall not reproduce (electronically or otherwise), modify or supply (by sale or otherwise) these data without written permission from the supplier. Please contact us (see details below) for more information.
<b>Data Quality</b>	
Lineage	The analyses (grids) are computer generated using a sophisticated analysis technique. It incorporates an optimised Barnes successive correction technique that applies a weighted averaging process to the station data. Topographical information is included by the use of anomalies (departures from average) in the analysis process. On the maps each grid-point represents an approximately square area with sides of about 5 kilometres (0.05 degrees). The size of the grids is limited by the data density across Australia. This grid-point analysis technique provides an objective average for each grid square and enables useful estimates in data-sparse areas such as central Australia. However, in data-rich areas such as southeast Australia or in regions with strong gradients, "data smoothing" will occur resulting in grid-point values that may differ slightly from the exact temperature measured at the contributing stations.
Positional Accuracy	The observational (station) data on which the analyses were based have an associated accuracy of the order of 0.01 degrees (approximately 1 km) or better.
Attribute Accuracy	Not applicable
Logical Consistency	Not applicable
Completeness	No missing data
<b>Contact Information</b>	
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<b>Metadata date</b>	
Metadata date	2007
Additional Metadata	These grids are based on monthly temperature data - additional information available on request (see contact above).