



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

**Gridded Average Tropical Cyclone Metadata**

<b>Dataset</b>	
Title	Tropical cyclone gridded datasets.
<b>Custodian</b>	
Custodian	Bureau of Meteorology
Jurisdiction	Australia
<b>Description</b>	
Abstract	The grids show the average annual number of tropical cyclones over the Australian region in the form of two-dimensional array data. The data are based on the period 1969/70 to 1998/99. See LINEAGE below for more information.
Search Word(s)	Gridded, analyses, tropical, cyclone, meteorology
Geographic Extent Names(s)	Australia
General Category	Gridded neutral, La Nina, El Nino and all years annual data
General Custodian Jurisdiction	Australian Government Australia
Geographic Extent Polygon	Not applicable
Geographic Bounding Box	See Below
North Bounding Latitude	Equator
South Bounding Latitude	60°S
East Bounding Longitude	120°W
West Bounding Longitude	30°E
<b>Data Currency</b>	
Beginning Date	1969
Ending Date	1999
<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	<p>The southern hemisphere tropical cyclone (TC) archive consists of cyclone best track data for the TC seasons from 1969/70 to 1998/99. The creation of a reasonably complete 30-year dataset for the whole Southern Hemisphere provided the basis for the generation of a set of climatological data sets showing the frequency of TC occurrence.</p> <p>A number of quality control/validation procedures were applied as part of the TC archive generation process. For example, the data was cross-checked with TC archive data from the Joint Typhoon Warning Centre, Hawaii, USA. We believe that the 1969/70 to 1998/99 TC archive accurately represents cyclone best track data in the Southern Hemisphere.</p> <p>For the 30-year period corresponding to the 1969/70 to 1998/99 TC seasons, cyclone tracks were analysed across the southern hemisphere at a resolution of 2° x 2°. The number of occurrences of cyclones in each 2° x 2° square was then calculated and the data converted to two-dimensional gridded format.</p> <p>The derived gridded information shows the average annual occurrence of tropical cyclones as well as the average annual cyclone occurrence during El Niño, La Niña and neutral years. Note, El Niño and La Niña years were taken from Wright (2001).</p> <p>The calculation of cyclone occurrence in this study was similar to the analysis done by Lourensz (1981) which was based on 5o lat/long squares. However, these gridded data sets show annual occurrence rather than decadal incidence information, and a finer rectangular resolution was used in this analysis (2o lat/long squares).</p> <p>References  Lourensz, R.S. 1981. Tropical cyclones in the Australian region July 1909 to June 1980. Australian Government Publishing Service, Canberra, 94 pp.</p> <p>Wright, W.J, 2001: A review of Australian climate in the 20th Century. Preprints, CLI-MANAGE 2000 (Conference on Managing Australian Climate Variability), Albury, NSW, Australia, Bureau of Meteorology, 127-130.</p>
Positional Accuracy	The observational (station) data on which the analyses were based have an associated accuracy of the order of 0.01 degrees (approximately 1km) 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	2005
Additional Metadata	These grids are annual tropical cyclone data - additional information available on request (see contact above).