



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

**Gridded Average Evapotranspiration Metadata**

<b>Dataset</b>	
Title	Mean monthly and mean annual evapotranspiration (base climatological data sets)
<b>Custodian</b>	
Custodian	Bureau of Meteorology
Jurisdiction	Australia
<b>Description</b>	
Abstract	Mean monthly and mean annual areal actual, areal potential and point potential evapotranspiration grids. The grids show evapotranspiration values across Australia in the form of two-dimensional array data. The mean data are based on the standard 30-year period 1961-1990. See LINEAGE below for more information.
Search Word(s)	Gridded, spline, analyses, climatology, evapotranspiration, hydrology, meteorology
Geographic Extent Names(s)	Australia
General Category	Gridded climatological data
General Custodian Jurisdiction	Australian Government Australia
Geographic Extent Polygon	Not applicable
Geographic Bounding Box	See below
North Bounding Latitude	-10.1
South Bounding Latitude	-43.8
East Bounding Longitude	153.85
West Bounding Longitude	112.15
<b>Data Currency</b>	
Beginning Date	1961
Ending Date	1990
<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>Gridded data were generated using the ANU (Australian National University) 3-D Spline (surface fitting algorithm). The grid point resolution of the data is 0.1 degrees ( approximately 10km).</p> <p>As part of the 3-D analysis process a 0.1 degree resolution digital elevation model (DEM) was used. Approximately 700 stations were used in the analysis, and all input station data underwent a high degree of quality control before analysis, and conform to WMO (World Meteorological Organisation) standards for data quality.</p> <p>Areal Actual ET is the ET that actually takes place, under the condition of existing water supply, from an area so large that the effects of any upwind boundary transitions are negligible and local variations are integrated to an areal average.</p> <p>Areal Potential ET is the ET that would take place, under the condition of unlimited water supply, from an area so large that the effects of any upwind boundary transitions are negligible and local variations are integrated to an areal average.</p> <p>Point Potential ET is the ET that would take place, under the condition of unlimited water supply, from an area so small that the local ET effects do not alter local airmass properties. It is assumed that latent and sensible heat transfers within the height of measurement are through convection only.</p> <p>The above definitions are based on those given by Morton (1983), but we have used the term areal potential ET for Morton’s wet-environment ET and the term point potential ET for Morton’s potential ET. Morton, F.I. (1983). Operational estimates of areal evapotranspiration and their significance to the science and practice of hydrology. Journal of Hydrology, 66: 1-76.</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	Grid point data are post processed. For more information please contact us.
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	Additional information available on request (see contact above).