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SAFARI 2000 MONTHLY CLIMATOLOGY FOR THE 20TH CENTURY (NEW ET AL.)

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Summary:

This is a data set of mean monthly surface climate data over Southern Africa for nearly all of the twentieth century. The data set is gridded at 0.5 degree latitude/longitude resolution and includes seven variables: precipitation, mean temperature, diurnal temperature range, wet-day frequency, vapour pressure, cloud cover, and ground-frost frequency. All variables have mean monthly values for the period 1901-1995, several have data as recent as 1998, and more data will be added by the data originators. In constructing the monthly grids the authors used an anomaly approach which attempts to maximize station data in space and time (New et al., 2000). In this technique, grids of monthly historic anomalies are derived relative to a standard normal period. Station measurement data for the years 1961-1990, extracted from the monthly data holdings of the Climatic Research Unit and the Global Historic Climatology Network (GHCN), served as the normal period (New et al., 1999). The anomaly grids were then combined with high-resolution mean monthly climatology to arrive at fields of estimated historical monthly surface climate. Data users are encouraged to see the companion file New et al. (2000) for a complete description of this technique and potential applications and limitations of the data set. For additional information, refer to the [IPCC Data Distribution Centre](#).

Access to the complete year-by-year monthly data set or to data more recent than posted here can be achieved by making a request with the [Climate Impacts LINK Project at the Climatic Research Unit](#) (email: d.viner@uea.ac.uk, web site: www.cru.uea.ac.uk/link/).

Data Citation:

Cite this data set as follows:

New, M., M. Hulme, and P. D. Jones. 2002. SAFARI 2000 Monthly Climatology for the 20th Century (New et al.). Data set. Available on-line [<http://www.daac.ornl.gov>] from Oak Ridge National Laboratory Distributed Active Archive Center, Oak Ridge, Tennessee, U.S.A. doi:10.3334/ORNLDAAC/623.

References:

New, M. G., Hulme, M., and Jones, P. D. 1999. Representing twentieth century space-time climate variability. Part I: development of a 1961-1990 mean monthly terrestrial climatology. *J. Climate* 12: 829-856.

New, M. G., Hulme, M., and Jones, P. D. 2000. Representing twentieth century space-time climate variability. Part II: Development of a 1901-1996 monthly terrestrial climate fields. *J. Climate* 13: 2217-2238.

Data Format:

For information on Parameter/Variable Names, Variable Description/Definition, Units of Measurement, and Data File Format, see this companion file: [readme.txt](#).

For information on the preparation of the Southern African subset, see this companion file: [readme.txt](#).

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