

DAAC Home

SAFARI 2000 GLOBAL HISTORICAL CLIMATOLOGY NETWORK, V. 2, 1990-2001

[Get Data](#)

Summary:

This data set is a southern African subset of the "Global Historical Climatology Network, Version 2" (GHCN V2) database for the SAFARI 2000 campaign, which covers the following countries for the 1990-2001 time period: Angola, Botswana, Burundi, Cameroon, Central African Republic, Comoros, Congo, Gabon, Kenya, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Nigeria, Rwanda, Sao Tome and Principe, Seychelles, Somalia, South Africa, Sudan, Swaziland, Tanzania, Uganda, Zambia, and Zimbabwe.

The GHCN V2 database contains the following data sets:

Monthly Temperature Data -- The data are monthly mean, maximum and minimum temperature values, each as a 5-digit integer. (Divide by 10 to convert to degrees Celsius.) There are data files containing raw values and data files for values that were adjusted to account for various non-climatic inhomogeneities. New monthly data are added to GHCN V2 a few days after the end of the month.

Monthly Precipitation Data -- The data are monthly total precipitation values recorded in tenths of millimeters. (Divide by 10 to get millimeters.) There are data files containing raw values and data files for values that were adjusted to account for various non-climatic inhomogeneities. New monthly data are added to GHCN V2 a few days after the end of the month.

More information about the GHCN V2 database can be viewed at [<http://lwf.ncdc.noaa.gov/oa/ncdc.html>].

DATA SET RESTRICTIONS: The GHCN V2 data and products may have conditions placed on their international commercial use. They can be used within the United States or for non-commercial international activities without restriction. Re-distribution of these data by others must provide this same notification. A log of IP addresses accessing these data and products will be maintained by National Climatic Data Center (NCDC) and may be made available to data providers.

Data Citation:

Cite this data set as follows:

Peterson, T. C., and R. S. Vose. 2002. SAFARI 2000 Global Historical Climatology Network, V[ersion]. 2, 1990-2001. 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/646.

References:

Vose, R. S., R. L. Schmoyer, P. M. Steurer, T. C. Peterson, R. Heim, T. R. Karl, and J. K. Eischeid. 1992. The Global Historical Climatology Network: Long-Term Monthly Temperature, Precipitation, Sea Level Pressure, and Station Pressure Data. ORNL/CDIAC-53, CDIAC NDP-041. Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, Oak Ridge, Tennessee, U.S.A.

Data Format:

For information on temperature and precipitation parameter/variable names, variable description/definition, units of measurement, and data file format see the companion files http://daac.ornl.gov/daacdata/safari2k/climate_meteorology/gncn_v2/comp/gncn_readme_temperature_v2.txt and http://daac.ornl.gov/daacdata/safari2k/climate_meteorology/gncn_v2/comp/gncn_readme_precip_v2.txt, respectively.

The SAFARI 2000 subset of GHCN V2 data was accomplished by the following steps:

1. Modify the data files (available from the NCDC at <http://www.ncdc.noaa.gov/oa/climate/gncn-monthly/index.php>) for Southern African coverage into (precipitation, mean, maximum, and minimum temperature) .csv files that contain ID#, longitude decimal degrees, and latitude decimal degrees. Import into ArcInfo. Create point coverages and add to a view in ArcView 3.1.
2. In addition to the point coverages, create a polygon in ArcInfo using the guidelines for the Safari 2K Study Area. Bounding Coordinates are West : 5; East : 60; North : 5; and South : -35.
3. Once the points and the polygon are displayed, create ArcView shapefiles containing only the points located inside the polygon.
4. Finally join the matching attributes from the GHCN data and create comma delimited (.dat) files.

Document Information:

2002/6/6

Document Review Date:

2002/6/6

Document Curator:

webmaster@www.daac.ornl.gov

Document URL:

<http://daac.ornl.gov>



[Privacy Policy](#) | [Feedback](#) | [Help](#)



 Home

About Us

[Who We Are](#)
[Partners](#)
[User Working Group](#)
[Data Citation Policy](#)
[Workshops](#)
[News](#)

Get Data

[Complete Dataset List](#)
[Search for Data](#)
[Field Campaigns](#)
[Land Validation](#)
[Regional/Global](#)
[Model Archive](#)

Data Management

[Plan](#)
[Manage](#)
[Archive](#)
[DAAC Curation](#)
[Submit Data](#)

Tools

[MODIS](#)
[THREDDS](#)
[SDAT](#)
[Daymet](#)
[CARVE Data Viewer](#)
[Soil Moisture Visualizer](#)
[Land - Water Checker](#)

Help
[FAQs](#)

 Contact Us