SPONSORS

THE FLORIDA STATE UNIVERSITY
OFFICE OF RESEARCH

USGS
science for a changing world

STATE UNIVERSITY SYSTEM of FLORIDA
Board of Governors

NATIONAL INSTITUTES OF HEALTH

USDA

NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

Florida Climate Institute

http://floridaclimateinstitute.org
info@floridaclimateinstitute.org

FAU FLORIDA ATLANTIC UNIVERSITY

University of Central Florida

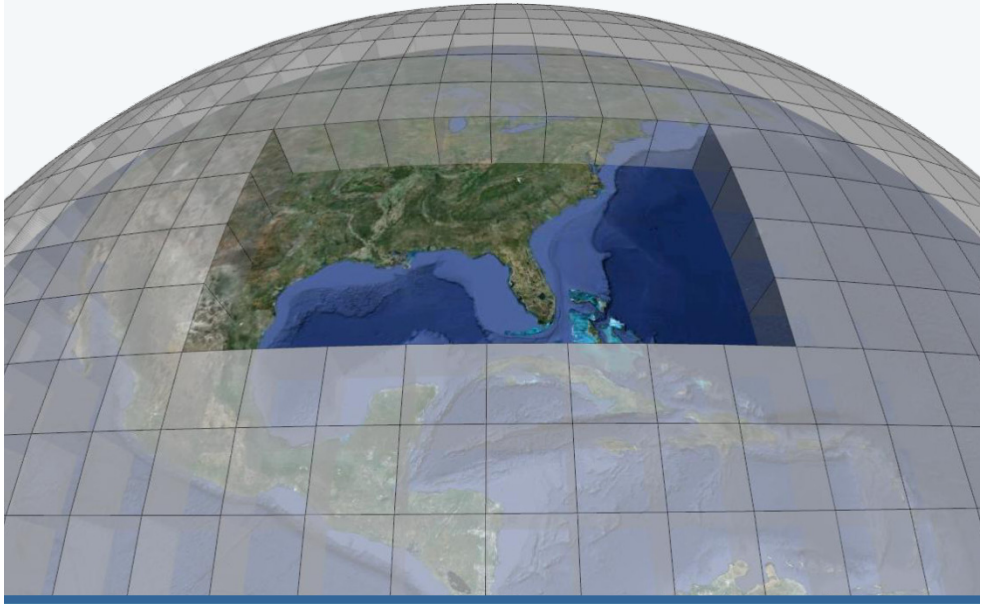
UF UNIVERSITY of FLORIDA

UNIVERSITY OF MIAMI

USF UNIVERSITY OF SOUTH FLORIDA

Florida Climate Institute

Data Digest



Contact:

Dr. Vasu Misra
vmisra@fsu.edu

FLORIDA STATE UNIVERSITY 1851
VIRES ARTES MORES

CLARReS10

COAPS Land-Atmosphere Regional Reanalysis for Southeast US at 10 km

» *What is this?*
This is dynamically downscaled data from global reanalysis that offers gridded datasets of several meteorological variables. There are two versions of this dataset: CLARReS10-R2 (downscaled from global NCEP-NCAR reanalysis) and CLARReS10-ERA (downscaled from global European reanalysis). Several peer reviewed articles on the dataset are available at the weblink below.

» *Where is the data available?*
http://floridaclimateinstitute.org/resources/data-sets/regional-downscaling

» *What is the period of the data?*
1979-2000.

» *Interval of data?*
Variety of meteorological data is available at hourly and daily intervals.

» *Spatial resolution of data?*
10 km over the domain shown in Fig. 1.

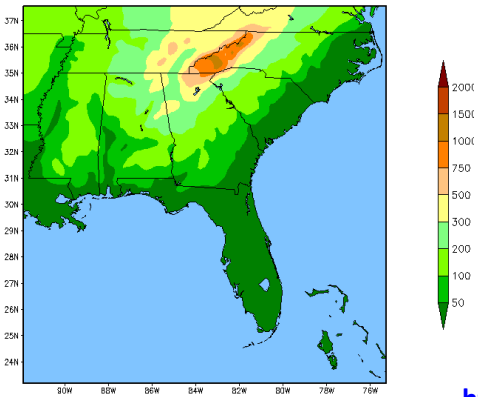


Fig. 1: Domain of CLARReS10 showing the orography at 10 km spatial resolution.

CLAREnCE10

COAPS Land-Atmosphere Regional Ensemble Climate Change Experiment for the Southeast US at 10 km

» *What is this?*
This is dynamically downscaled data from three IPCC AR4 models (CCSM3, GFDL2-1, and HADCM3) for the current century (1968-2000) and future climate (2038-2070) under the AR4 A2 emission scenario. The regional climate model used here is identical to that used in CLARReS10. Several peer reviewed publications on this dataset are currently in preparation.

» *Where is the data available?*
http://floridaclimateinstitute.org/resources/data-sets/regional-downscaling

» *Interval of data?*
Variety of meteorological data is available at hourly and daily intervals.

» *Spatial resolution of data?*
10 km over the domain shown in Fig. 1.

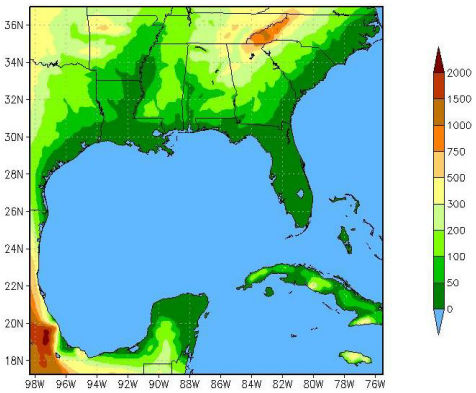


Fig. 2: Domain of FLAReS10 showing orography (in meters) at 10 km spatial resolution.

FLAReS1.0

Florida Climate Institute-Florida State University Land Atmosphere Reanalysis for the Southeastern US at 10 km Version 1.0

» *What is this?*
This is dynamically downscaled data from the 20th century global reanalysis using the same regional climate model as the one used in CLARReS10 and CLAREnCE10. Peer reviewed publications on the dataset is available at the weblink below.

» *Where is the data available?*
http://floridaclimateinstitute.org/resources/data-sets/regional-downscaling

» *What is the period of the data?*
1901-2008.

» *Interval of data?*
Variety of meteorological data is available at hourly and daily intervals.

» *Spatial resolution of data?*
10 km over the domain shown in Fig. 2.

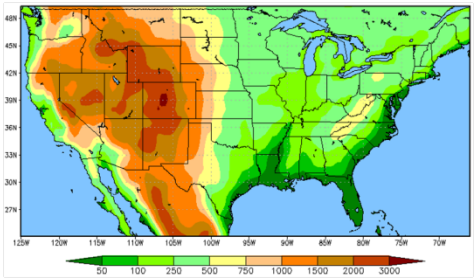


Fig. 3: The orography (in meters) at 50 km spatial resolution of FISH50.

FISH50

Florida Climate Institute-Florida State University Seasonal Hindcasts at 50 km resolution

» *What is this?*
These are global retrospective seasonal forecasts (hindcasts) for the period 1982-2008 using the Florida Climate Institute-Florida State University Global Spectral Model (FGSM). The FGSM is forced with bias corrected, multi-model averaged retrospective forecasts of SST from two contemporary coupled-ocean -atmosphere models (CFSv2 and CCSM3) for generating FISH50.

» *Where is the data available?*
http://floridaclimateinstitute.org/resources/data-sets/fish50

» *How many ensemble members?*
There are 6 ensemble members per seasonal hindcast.

» *When are the hindcasts initialized?*
One set of seasonal hindcasts are initialized in the beginning of June and another set of hindcasts initialized in the beginning of December.

» *What is the duration of each seasonal hindcast?*
6 months.

» *Interval of data available?*
Several meteorological variables are available at daily interval.

» *Spatial domain?*
The data on the web is being served for the domain shown in Fig. 3, although we ran a global model.

Help downloading the data?
http://floridaclimateinstitute.org/resources/data-sets/regional-downscaling/read-me