PACIFIC CLIMATE INFORMATION SYSTEM

Data and Products Thu Mar 28 00:32:53 HST 2024

Name	Educational Global Climate Modeling (EdGCM)
Capability Area	- Understanding Climate Variability and Change
Focus Area	- Fresh Water Resources and Drought - Coastal Inundation/Sea Level Rise, Extreme Weather, and Community Resilience - Marine and Terrestrial Ecosystems
Regions	- Central North Pacific - Western North Pacific - South Pacific - Pacific Basin - Global
Data/Physical	- Data - Physical - Model Results - Atmospheric (e.g., Air Temperature, Rainfall, Wind Speed and Direction) - Oceanic (e.g., Water Temperature, Salinity, Acidity, Sea Level, Wave Height)
Products/Physical	- Products - Physical - Applications, including Visualization and Decision Support Tools - Atmospheric (e.g., Air Temperature, Rainfall, Wind Speed and Direction) - Oceanic (e.g., Water Temperature, Salinity, Acidity, Sea Level, Wave Height)
Sectors	- Public Health and Safety - Community Planning and Development - Ecosystems
Description	EdGCM is a suite of software that allows users to run a fully functional 3D global climate model on laptops or desktop computers. Teachers, students and others can learn by doing to design climate experiments, run computer simulations, post-process data, analyze output using scientific visualization tools, and report on their results. All of this is done in the same manner and with the same tools used by climate scientists. The software package includes a full copy of 4th Dimension database software and the NASA/Goddard Institute for Space Studies Global Climate Model II.

Url	http://edgcm.columbia.edu/
Lead Agencies	Columbia University
Contacts	EdGCM, http://forums.edgcm.columbia.edu/