



Data and Products Sat Feb 16 17:52:26 HST 2019

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| <b>Name</b>       | Educational Global Climate Modeling (EdGCM)  |
| Capability Area   | - Understanding Climate Variability and Change   |
| Focus Area        | - Fresh Water Resources and Drought<br>- Coastal Inundation/Sea Level Rise, Extreme Weather, and Community Resilience<br>- Marine and Terrestrial Ecosystems   |
| Regions           | - Central North Pacific<br>- Western North Pacific<br>- South Pacific<br>- Pacific Basin<br>- Global   |
| Data/Physical     | - Data - Physical<br>- Model Results<br>- Atmospheric (e.g., Air Temperature, Rainfall, Wind Speed and Direction)<br>- Oceanic (e.g., Water Temperature, Salinity, Acidity, Sea Level, Wave Height)  |
| Products/Physical | - Products - Physical<br>- Applications, including Visualization and Decision Support Tools<br>- Atmospheric (e.g., Air Temperature, Rainfall, Wind Speed and Direction)<br>- Oceanic (e.g., Water Temperature, Salinity, Acidity, Sea Level, Wave Height)   |
| Sectors           | - Public Health and Safety<br>- Community Planning and Development<br>- 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. |

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| Url           | <a href="http://edgcm.columbia.edu/">http://edgcm.columbia.edu/</a>                      |
| Lead Agencies | Columbia University  |
| Contacts      | EdGCM, <a href="http://forums.edgcm.columbia.edu/">http://forums.edgcm.columbia.edu/</a> |