It’s like having a bunch of dead elephants in your living room. You can’t really push them around very much, and they just lie there and decompose...

The Honorable Dr. Phil Duffy ;)}
Towards Global Earth System Modeling

CCSM CAM3

1/10d POP Ocean Model

MOZART Chem Model

CAM3 at T341 Resolution (about 35km)
Making Earth System Data Available to a Global Community

ESG All Hands Meeting, NCAR Vislab

NCAR

Computational & Information Systems Laboratory

The National Center for Atmospheric Research
ESG provides access to over 200TB of CCSM, IPCC, NARCCAP, CSIM, CLM, POP, PCM data; the CCSM model, and analysis and visualization tools.
Over 500 Sites Ingesting ESG Products

Image courtesy Gary Strand, NCAR
The Nobel Peace Prize 2007

"for their efforts to build up and disseminate greater knowledge about man-made climate change, and to lay the foundations for the measures that are needed to counteract such change"

Photo: Scania/Tom Hevezi

Albert Arnold (Al) Gore Jr.

Intergovernmental Panel on Climate Change (IPCC)

1/2 of the prize

Geneva, Switzerland

USA

The Nobel Peace Prize 2007

Prize Announcement

Press Release

Intergovernmental Panel on Climate Change (IPCC)

Interview

Other Resources

Albert Arnold (Al) Gore Jr.

See Also

Speed Read: Nobelpriize.org's two minute summary of this year's award.

Chemistry

Gerhard Ertl
Over 500 Sites Ingesting ESG Products

Image courtesy Gary Strand, NCAR
Collaborating Towards an Earth System Knowledge Environment

The Earth System Grid (Climate/IPCC, DOE+NSF)

NARCCAP (Regional Climate: NSF, DOE, NOAA)

GIS IPCC Portal

ESMF & Earth System Curator (Models+Data, NSF)

TIGGE (Ensemble weather)

VSTO (Solar-terrestrial, semantic, NSF)

Cooperative Arctic Data and Information System (Polar, NSF)

WMO-WIS (Global Federation)

CDP + GE (Oppfund)

Collaborating Towards an Earth System Knowledge Environment
The NCAR Command Language (NCL)

An Open Source software package for processing, analyzing, and visualizing geoscientific data

- Handles NetCDF, GRIB1,2, HDF4, HDF-EOS, binary
- Over 800 computational functions, many geoscience-specific including focused CCSM & WRF support
- Quantitative visualization, publication-quality
- Responsive and knowledgeable support - a community of thousands of users in 73 countries
- Several training workshops each year
- Distribution for most Unix systems, Mac, Windows
NCL & Python

Just released: PyNGL and PyNIO - Python interfaces to NCL’s visualization and data handling capabilities

- Software available from http://www.earthsystemgrid.org
- Hundreds of examples at www.ncl.ucar.edu and www.pyngl.ucar.edu
- Contact haley@ucar.edu

TIGGE data (GRIB2)
Questions?

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