Geophysical Fluid Dynamics Laboratory Review

June 30 - July 2, 2009
GFDL Research and NOAA's Climate Goal

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Gaining support for a new GFDL initiative

Program

Goal

Line Office

NOAA

Department of Commerce

Office of Management and Budget

Congressional Appropriation

President’s Budget

Department of Commerce

Office of Management and Budget

NOAA

Goal

Line Office

Program

Gaining support for a new GFDL initiative
GFDL’s home(s) in the NOAA Matrix

Mission Goals plan, Line Offices execute

Mission Goals

- Ecosystem Goal: Protect, restore and manage the use of coastal and ocean resources through an ecosystem approach to management
- Climate Goal: Understand climate variability and change to enhance society’s ability to plan and respond.
- Weather and Water Goal: Serve society’s needs for weather and water information
- Commerce and Transportation Goal: Support the Nation’s commerce with information for safe, efficient and environmentally sound transportation
- Mission Support Goal: Provide critical support for NOAA’s mission

Program Planning & Integration
NWS
NOS
OAR
OAR
NESDIS
NMFS

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Climate Goal: Understand climate variability and change to enhance society’s ability to plan and respond.

- **Climate Observations and Monitoring**
  - Describe and understand the state of the climate system through integrated observations, monitoring, and data management.

- **Climate Research and Modeling**
  - Understand and predict climate variability and change from weeks to decades to a century.

- **Climate Service Development**
  - Improve the ability of society to plan for and respond to climate variability and change.
Recent GFDL Planning Successes

• FY09-FY10: **Climate Computing** included in the American Reinvestment and Recovery Act

• Enhanced **Decadal Climate Research** planned for FY10-FY14, included in FY10 Presidential Budget

• **Earth System Modeling** increases planned for FY11-FY15: sea level rise, Arctic climate change, extreme events, ocean acidification, biogeochemical feedbacks on climate and an ocean model backbone. High priority in Goal