

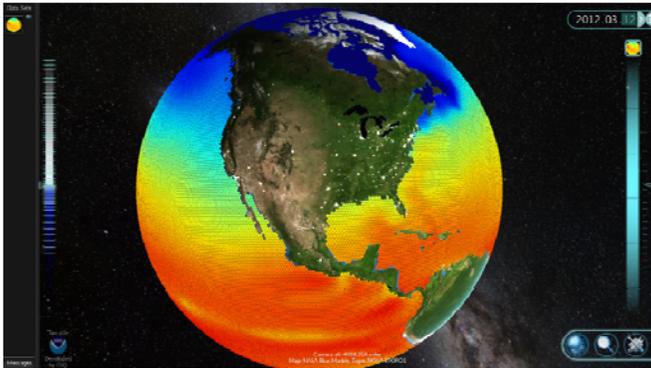


Global Systems Division NOAA Earth Information Services

Serving society through science and technology

What are the NOAA Earth Information Services?

esrl.noaa.gov/gsd



At NOAA's Earth System Research Laboratory (ESRL), computer scientists use technology to communicate changes in climate, weather, oceans, and coasts, and to share that knowledge and information with others. NOAA Earth Information Services (NEIS) is a framework of layered services designed to help NOAA's mission areas by facilitating the discovery, access, integration, and understanding of all NOAA data (past, present, and future). Designed for a world where everything is in motion, NEIS allows fluid data integration and interaction across 4D time and space, providing a tool for everything NOAA does professionally and the people NOAA affects.

Benefits: A common picture in time and space for ecological, biological, physical and oceanic information, from the bottom of the ocean through the top of the atmosphere.

Exploring IT Technology: TerraViz by GSD, the visualization within the NEIS framework, harnesses the power of 3D graphics card technology available in commodity PCs to render and display data in new ways.

Benefits: Our diverse and complex world requires new capabilities to understand complex relationships.

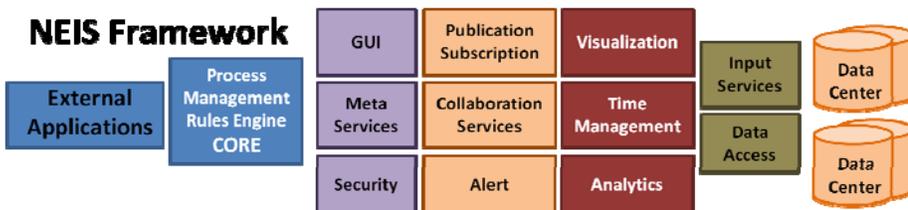
Supporting research: Physical, chemical, and biological data are all interrelated. The NEIS framework provides capabilities to quickly integrate and interact with data from diverse sources through all time.

Did You Know?



Understanding the ocean ice cover is critical to knowing what will happen to Arctic seal populations. ESRL scientists are working with NMML researchers to merge information from physical and biological measurements, improving our understanding of the impacts of environmental change. Fusion of ice coverage and seal populations data allows more efficient analysis for future research.

NEIS Framework



Benefits: National Science Foundation and policy groups are fast-tracking data sharing capabilities to create an interoperable world.

NEIS Demonstrates: Improved searching capability, quick and easy-to-find situational data. Framework of services facilitates multi-platform agile response. New data is immediately available, shared using standardized data formats and access methods.



For more information, contact: **Jonathan Kelsey**
National Oceanic and Atmospheric Administration,
Office of Legislative and Intergovernmental Affairs
14th Street & Constitution Avenue, NW, Room 5225, Washington, DC 20230
Phone: 202.482.0809 Email: Jonathan.Kelsey@noaa.gov

Technical contact: **Jebb Stewart**
325 Broadway R/GSD6, Boulder CO 80305
Phone: 303-497-6724 Email: Jebb.Q.Stewart@noaa.gov
Project website: www.esrl.noaa.gov/neis/