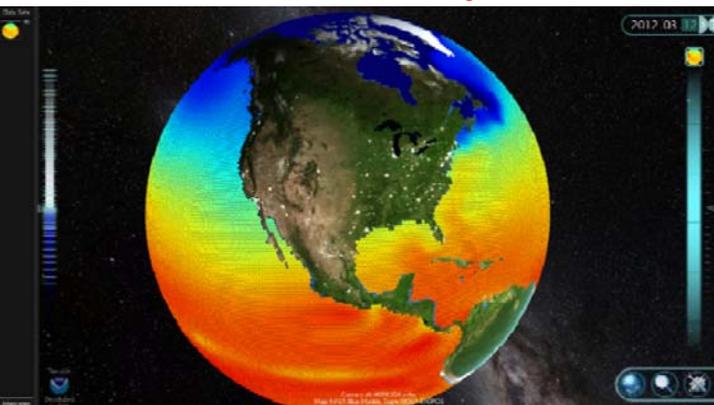




Global Systems Division NOAA Earth Information System™

Serving society through science and technology

What is the NOAA Earth Information System™?



At NOAA's Earth System Research Laboratory (ESRL) – Global Systems Division (GSD), 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 System™ (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 (past, present, and future).

Designed for a world where everything is in motion, NEIS™ allows fluid data integration across 4D time and space, providing a tool for everything NOAA does professionally and the people NOAA affects.

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

Exploring Information 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.

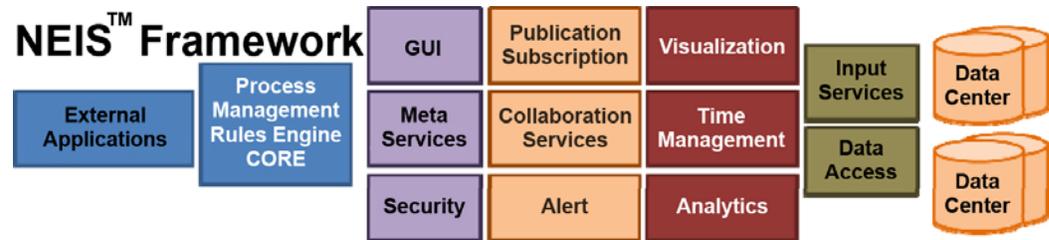
Benefits: Our diverse and complex world requires new capabilities to understand complex relationships.

Supporting Research: Physical, chemical, and biological data are all interrelated. The NEIS™ framework provides capabilities to quickly integrate and interact with data from all 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 biologic, improving our understanding of the impacts of environmental change. Fusion of ice coverage and seal population data allows more efficient analysis for future research.



Benefits: The 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. The framework of services facilitates multi-platform agile response. New data is immediately available and is shared using standardized data formats and access methods.



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