



Animated Earth

Last updated: 9 July, 2004

Revision: 04

Project Objectives

- Provide internet-accessible animated visualizations of important Earth Science processes, events, and phenomena to students, educators and the public, using NASA remote sensing and model data.
- Determine which standards and protocols will be adopted to convey these visualizations over the internet.
- Implement a public server-side infrastructure to deliver these visualizations using the chosen standards and protocols.

Customers

- K-16 teachers, students, and the general public.
- Software developers desiring to include the visualization capability in their applications.

Use Cases

- An elementary school teacher displays on the classroom computer projector a collection of animated hurricane visualizations to illustrate the formation and behavior of powerful storms.
- A geography, history, or anthropology teacher displays animations of the change in population or land-use over time.
- Museums enable their visitors to interactively observe and discover patterns of current Earth events and phenomena.

Deliverables and Schedule (year one)

- 15 Jan 2004 – Project requirements determined.
- 30 Jan 2004 – Straw man list of visualizations to be created the first year produced.
- 30 Jan 2004 – Adequacy of existing standards determined; definition of any required extensions to standards defined.
- 5 Mar 2004 – Server-side infrastructure defined and requirements documented for clients and servers.
- 30 Mar 2004 – First visualization available.
- 30 Jun 2004 – Initial (alpha) version of server-side software to deliver visualizations available and documented.
- 30 July 2004 – Initial educator and curriculum developer review of first year visualization product list. (LT Office responsibility.)
- 31 Aug 2004 – 13 – 15 animations available from Animated Earth server.

People

- Project Manager: Horace Mitchell, Ph.D., NASA Goddard Space Flight Center, 301.286.4030, Horace.Mitchell@nasa.gov
- Alternate Contact: TBD

Partnerships

- TBD

Dependencies

- None.

Assumptions

- Adequacy of WMS 1.3 to deliver animations.