



NOAA's Climate Portal

Technical Steps to a Successful Deployment

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Presentation to the ESIP Federation

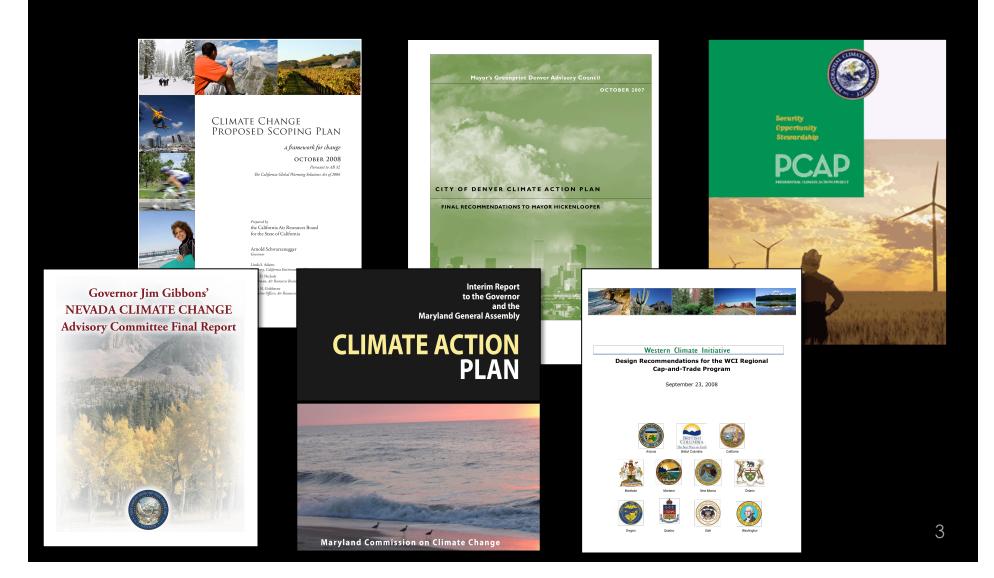
January 7, 2009

NOAA Climate Portal Charter

BACKGROUND

- Public demand for climate data, services, and information is growing. Decision makers, business leaders, scientists, educators, and concerned citizens are all expressing a need for more timely data and resources to help them make more informed decisions in their lives and livelihoods.
- Thus, NOAA sees an increasing need to manage and distribute climate information in a more effective, efficient, customer-focused manner.
- The rapid evolution of Web technologies coupled with the migration of user communities on-line seeking climate resources underscore the need for a comprehensive new NOAA climate data and services Web portal.

City and state governments developing climate action plans need ready resources



NOAA Climate Portal Charter

GOAL:

 To develop a one-stop Web portal for discovery and delivery of NOAA's climate information and resources.

OBJECTIVES:

- Enhance the discoverability, accessibility and usability of NOAA climate data, products, and services
- Enhance interoperability and leveraging of software products
- Implement appropriate metadata standards and requirements for climate data and products
- Promote a user-focused view of climate data and a consistent delivery of Web-based climate services across NOAA

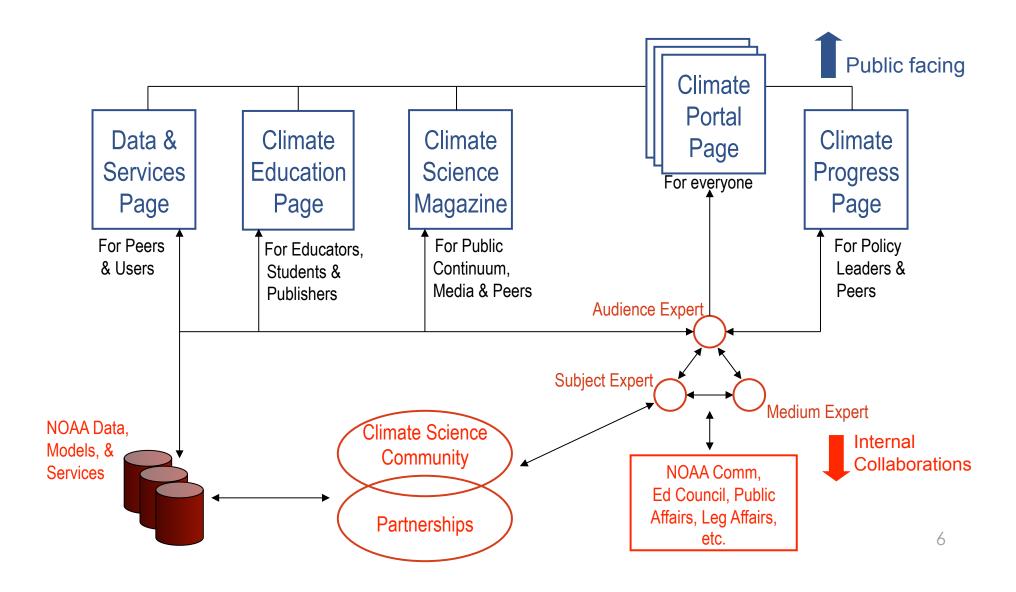
NOAA Climate Portal Charter

VISION

- In the climate context, NOAA's role is to be an authoritative and credible source of climate data and services for science and society, and an honest broker in its assessments of the state of the climate system and forecasts of its future.
- To succeed in this vision, NOAA's supporting labs, centers, and partners must work collaboratively and the Portal will serve as a primary, unifying focal point.
 - Existing Web interfaces across NOAA will continue to evolve in concert with the Climate Portal, with increasing seamlessness.
 - One massive, centralized Website to host and serve all datasets and products is not practical nor doable.
 - Think: centralized access for users; decentralized process among NOAA personnel for developing & serving products & services.

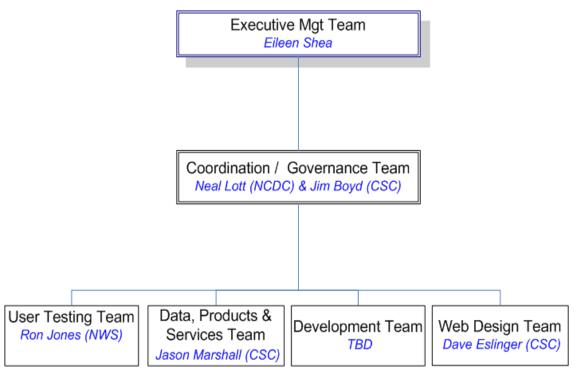
Climate Portal Concept

Centralized Access, Decentralized Process



Program Management

Project Organization



Roles & Responsibilities

- Executive sponsorship
- Establish direction & priorities
- Approves requirements
- Oversees technical development
- Manages cost, schedule & scope
- Resolves cross-cutting issues
- Provides routine status to Exec
 Team & elevates issues as needed
- Executes WBS (work breakdown structure) tasking
- Provides cross-walk with other teams as needed

Progress to date

June '08: Initial meeting to discuss ideas & interested players

August '08: Kickoff workshop in Asheville, NC, to set scope

September – November '08:

- Governance, Design, Data/Metadata & User Testing Team efforts underway
- Core users identified
- Charter completed; concept presented to NOAA CIO Council
- Requirements documents development underway
- Selected for "in-core" funding beginning in FY11

December '08:

- Agreement on prototype design
- Continued work on requirements documents
- Continued development of case studies and user scenarios for prototype

Deliverables

Phase 1 (FY09) Prototype:

- NOAA Climate Portal Homepage
- Data & Services section
- Climate Science magazine
- FGDC/ISO-compliant metadata for data / products
- Technical documentation sufficient to manage and evolve the initial version of the portal into the future
- Tests designed & implemented for both internal "tire kicking" and external user feedback
- Targeting public rollout (upon approval) in September '09

Phase 2 (FY10):

- Expansion of each section developed in Phase 1 with added datasets, products, and services
- Development of Education and Climate Science Progress sections

Next Steps

- Finalize and baseline portal requirements document
- Development Team begins work
- User testing ... ongoing and often!
- Stand up portal infrastructure at NCDC
- Secure FGDC metadata from participating offices for Phase 1 data / products
- Alpha and Beta reviews
- Continue enhancements of functionality and content
- On-line release to public (~ September 2009)

Some very preliminary designs...



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CLIMATE WHERE & WHEN?



The idea seemed simple enough: the more carbon dioxide that people pumped into the atmosphere by burning fossil fuels, the more the oceans would absorb. Is the ocean's uptake of carbon changing its carbon cycle? After 30 years of observations, NOAA found a surprising answer. Read more...

NOAA Improves Historical Hurricane Tracks Dataset

The historical hurricane track dataset now has twice the precision of the previous version, in both time and space. Read more...

Climate Change to Bring More Extreme Weather to High Plains?

The summer of 2008 shattered all previous records for the number of days exceeding 100°F. Read more...

This Design Features Four Headlines

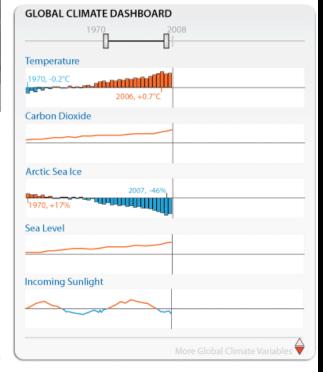
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12-Dec-2008

11-Dec-2008

Climate this week

Full resolution: JPEG | KMZ (12.4 MB)

NOAA News

9-Dec-2008

10-Dec-2008 This Header is for This Header is for the This Header is for the Yesterday's Image Image that is Two Image that is Three and Placed Here Days Old Placed Here Davs Old Placed Here **Feature Articles**

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December 19, 2008

The historical hurricane track dataset now has twice the precision of the previous version, in both time and space. There can be up to four lines of text in these descriptors.



Climate Change Brings More Extreme Weather to Great Plains

December 2, 2008

The summer of 2008 shattered all previous records for the number of days exceeding 100°F. There can be up to four lines of text in these descriptors, which is 1-2 sentences.



This is the Third Headline Out of Four Headlines

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November 21, 2008

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