The Role of Climate Data Records in NOAA Climate Assessments and Climate Services

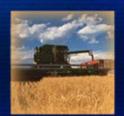
John J. Bates

Chief, Remote Applications Division
OAA's National Climatic Data Center













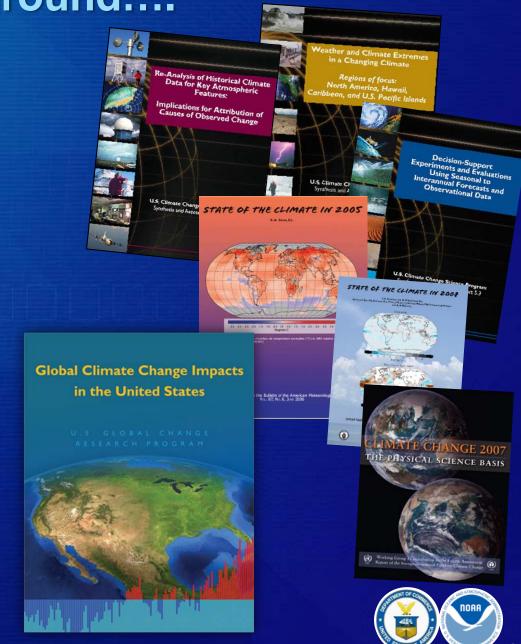


Some background....

ASSESSMENTS

NOAA support for assessments over recent years includes:

- 9 GCRP Synthesis and Assessment Products
- GCRP Global Climate Change Impacts Report
- IPCC assessments
- All ozone assessments
- State of the Climate Reports



And NOAA is creating a new Climate Service Capability and Line Office

NOAA Headquarters and Staff Offices

Under Secretary of Commerce for Oceans and Atmosphere and Administrator

National Marine Fisheries Service

Assistant Administrator National Ocean Service

Assistant Administrator National Weather Service

Assistant Administrator National
Environmental
Satellite, Data
and Information
Service

Assistant Administrator NOAA Climate Service

Assistant Administrator Office of Oceanic and Atmospheric Research

Assistant Administrator



Proposed NOAA Climate Service

NESDIS DATA CENTERS OAR PROGRAM & LABORATORIES

NWS FUNDING TO MANAGE NETWORKS (NO STAFF CHANGE)

National Climatic Data Center

National Oceanographic Data Center

National Geophysical Data Center Earth System Research Lab

Office of the Director

Chemical Sciences Division

Global Monitoring Division

Physical Sciences Division

Geophysical Fluid Dynamics Laboratory

Climate Program Office

Climate Observing Network Tropical Atmosphere Ocean (TAO)

Historical Climate Network (HCN)

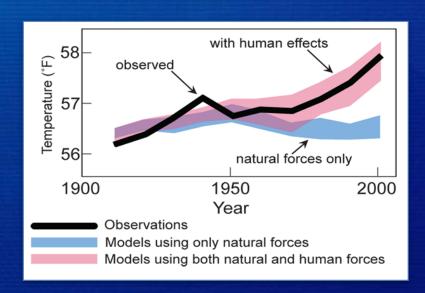
Hourly Precipitation Gauge Modernization

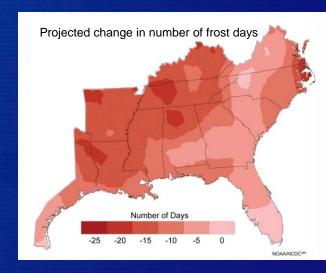
NOS & NMFS UNCHANGED

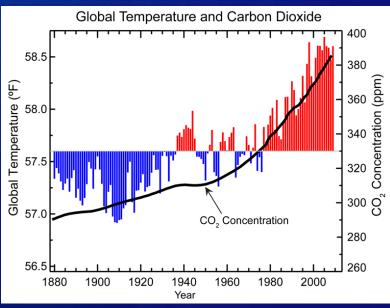


1) Specific Motivation

- Success of CMIP availability for AR4
- Transparency of data services
 - Must avoid even the appearance that
 Assessment data are not readily
 available or well documented

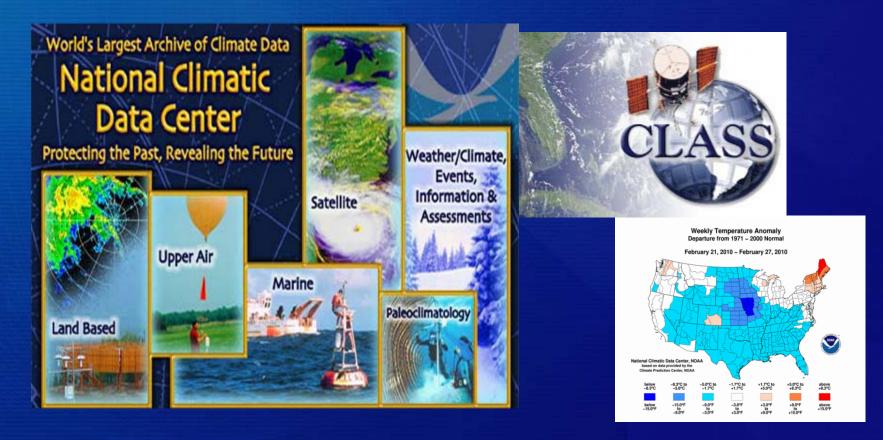






2) Some Challenges

- Large diversity of data and institutions
 - e.g academia, govt, corporate
- Agreement on formats and metadata
- Technical challenges and agreements on granularity.



3) Potential Users and Important Linkages

- Stakeholders, decision-makers and....
- Key agencies and organizations: USGCRP, IPCC/WMO
- Must provide and coordinate linkages to existing orgs
 - GEO, WCRP, IGBP, etc etc.



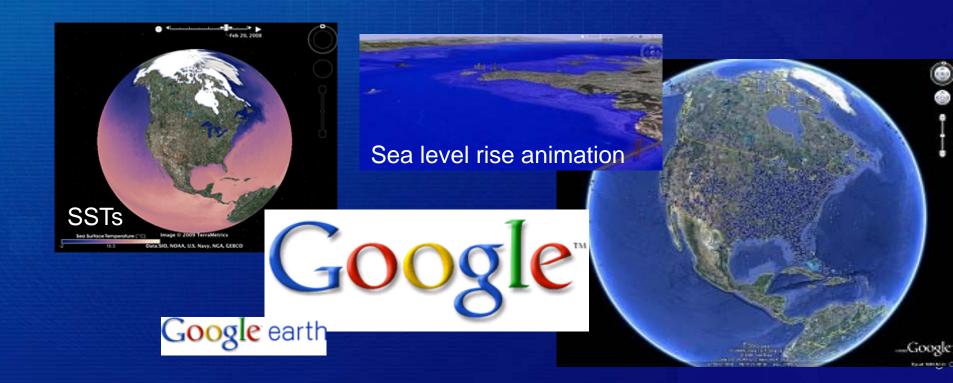




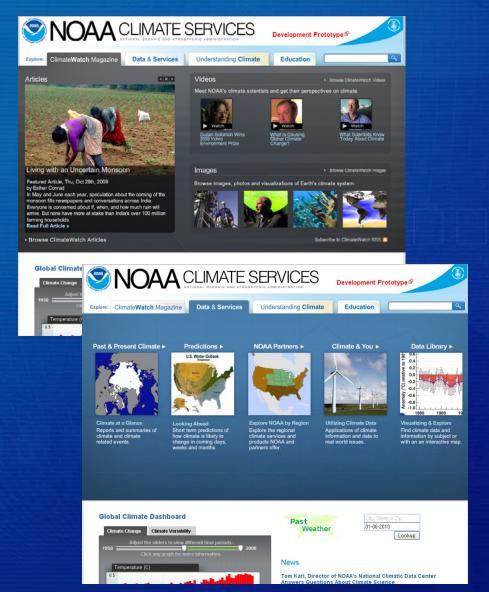


4) Role of Private Sector?

- What is the role of the private sector and NGOs?
 - e.g.,Google, Unidata, ESRI etc
- Public Access to Assessment Datasets
 - how do we ensure proper use, up-to-date data, line of sight issues etc



5) Climate.gov ---- a rallying point? NOAA Climate Services Portal



www.climate.gov

- One-stop access for NOAA's climate information
- Multiple audiences so multiple avenues to access information
 - ClimateWatch Magazine
 - Data and Services CDRs
 - Understanding Climate
 - Education
 - Climate Dashboard



6) Organization and sustained effort

- Proposed new NOAA Climate Service central coordination role, including Assessment Services function
- Distributed climate services and assessment services in regions – including many partners
- To what degree should we be centralized versus distributed?
- How does your CDR work make an Impact?
 - How do your journal articles move the science forward?
 - Is you work used in national/international assessments or the annual state of the climate report?
 - How can your work be used to assess climate models (CMIP5)?
 - Does your work have sectoral or regional impacts?



Thank you.

Questions

