## **Unidata Policy Committee**

### Benjamin Watkins NOAA National Climatic Data Center





National Climatic Data Center (NCDC) Asheville, North Carolina

- NCDC is the steward of the Nation's in-situ and satellite data and information.
- Collocated with the U.S. Air Force and Navy Climatology offices.
- The three agencies fulfill much of the Nation's climatological requirements.



#### **Mission Statement**

To provide access and stewardship to the Nation's resource of global climate and weather related data and information, and assess and monitor climate variation and change.



#### **NCDC** NATIONAL CLIMATIC DATA CENTER ORGANIZATION



### **20<sup>TH</sup> Century**

#### 21<sup>st</sup> Century



#### **OBSERVING SYSTEM TIMELINE**



## NOAA's Observing System Architecture (NOSA)

- 99 separate observing systems
- 500 different environmental parameters
- 40 observing systems termed "operational" (by their program managers)
- Describes NOAA's observing systems purpose
  - Life cycle phase, schedule and system quantities (currently deployed, programmed, or needed)
- Costs
  - Initial acquisition cost
  - Subsequent upgrade costs
  - Operations and maintenance costs
- Environmental parameters measured by the observing system
- Applications of NOAA observing systems to NOAA's mission goals
- Location maps of observing platforms or stations



#### **NCDC** CHALLENGES AND BENEFITS OF A NATIONAL ENVIORNMENTAL DATA ARCHIVE (DATA VARIETY AND GROWTH)



#### **Performance Measures**

#### **Number of Days: Observation to Archive**



Fiscal Year Quarters and FY FTE Program Costs

#### **NCDC: On the Forefront of E-Business**

**CLIMATE DATA ACCESS** 

Offline Access Continues to exhibit a sharp decline

NCDC





## **Current NOAA Management Model**



## **CLASS** Overview



### **Scientific Data Stewardship**

#### Real time and retrospective management of climate data



# **Forging New Partnerships**

- National Environmental Modeling and Analysis Center
  - UNCA, Asheville-Buncombe Technical Community College and UNC Charlotte
  - More accurate forecasts of flash floods and winter storms for Western North Carolina
- Climate and Weather Impacts on Society and the Environment (CWISE)
  - North Carolina State University, Coastal Service Center, University of South Carolina, Clemson University
  - Understand and assess the impacts of climate variability, and weather events
- Education and Research Consortium of Western Carolinas



## **ERCWC Network Coverage**



## **NCDC New Homepage**

### http://www.ncdc.noaa.gov





#### **Privacy Policy**

Disclaimer

## **Questions?**

#### WWW.NCDC.NOAA.GOV

