NoaA's National Climatic Data Center

The World's Largest Archive of Climate and Weather Data



Timothy Owen Operations Planning Officer November 28, 2012



NCDC: Where are we? Who are we? What do we do?



ASSESS

ACCESS

Acquire and Archive Climate Data From U.S. and International Sources

ACQUIRE ACCHIVE ACCESS ASSESS

Data spans stone-age to space-age... and across the globe



IBTrACS (International Best Track Archive for Climate Stewardship) 1842-2011

Managing and Operating the U.S. Climate Reference Network





Reference Networks offer climate-quality information for assessing long-term climate change and variability





Climate Reference Network Site: Montrose, Colorado

Serving and Preserving the Nation's Climate Data

Demand Continues to Grow







NCDC provides safe storage of 9,900 Petabytes = 11.5 Billion Kindle Books

COUIF

Serving A Wide Range of Customers

ACQUIRE ARCHIVE ACCESS ASSESS ASSESS

Consulting Meteorologist Agriculture

Contractor

Utilities

Federal Government State/Local Government

Research

Media

University

Insurance

Engineering

Individual

Legal

Other Business















Assemble Data into Easy-to-Use, Long-Term Datasets: Climate Products



Climate Data Records provide robust information for scientific applications based on the Nation's investment in observation systems



Global Tropical Cyclone Intensity Trends





NCDC released the 1981-2010 statistical Climate Normals for 9,800 stations



Who Is Using Our Weather and Climate Data?



For past 12 months through September 2012

- Calls: 15,588
- E-Mails: 7,056
- Faxes: 223
- Letters: 236

On-Line User Profile





Assess the Earth's Climate: Climate Monitoring A Few Examples



- Host and coproduce the U.S.
 Drought Portal
- Produce weekly, monthly, seasonal, and annual climate analyses
- Produce assessments of snowfall across the U.S.
- Analyze variations and changes in global surface temperature



Assess the Earth's Climate: International, National, Annual Assessments



 2 NCDC lead authors on Special Report on Extremes





COUIR

ARCHIVE

ASSESS

ACCESS

Over 50 peer-reviewed papers every year

Climate.gov



Portal for NOAA-wide Data and Information





Asheville Climate Partners



- Cooperative Institute for Climate and Satellites NC
 - NC State University
 - Co-located in Federal Building downtown
- University of North Carolina Asheville
 - Certificate in Climate Change and Society, and concentration in Climate Change and Society within the MLA Degree
 - Renaissance Computing Institute (RENCI)
 - Disaster research, mitigation, and preparedness and local economic development
 - National Environmental Modeling and Analysis Center (NEMAC)
 - Applied environmental research to create decision-support tools addressing societal challenges

AB-Tech Institute for Climate Education

Centers for Environmental and Climatic Interaction (CECI)

North Carolina Arboretum

 Collaborative Agreement with NCDC and American Public Gardens Association to sponsor educational programs





ncdc.noaa.gov climate.gov



