

# NCDC Sectoral Engagement Datasets

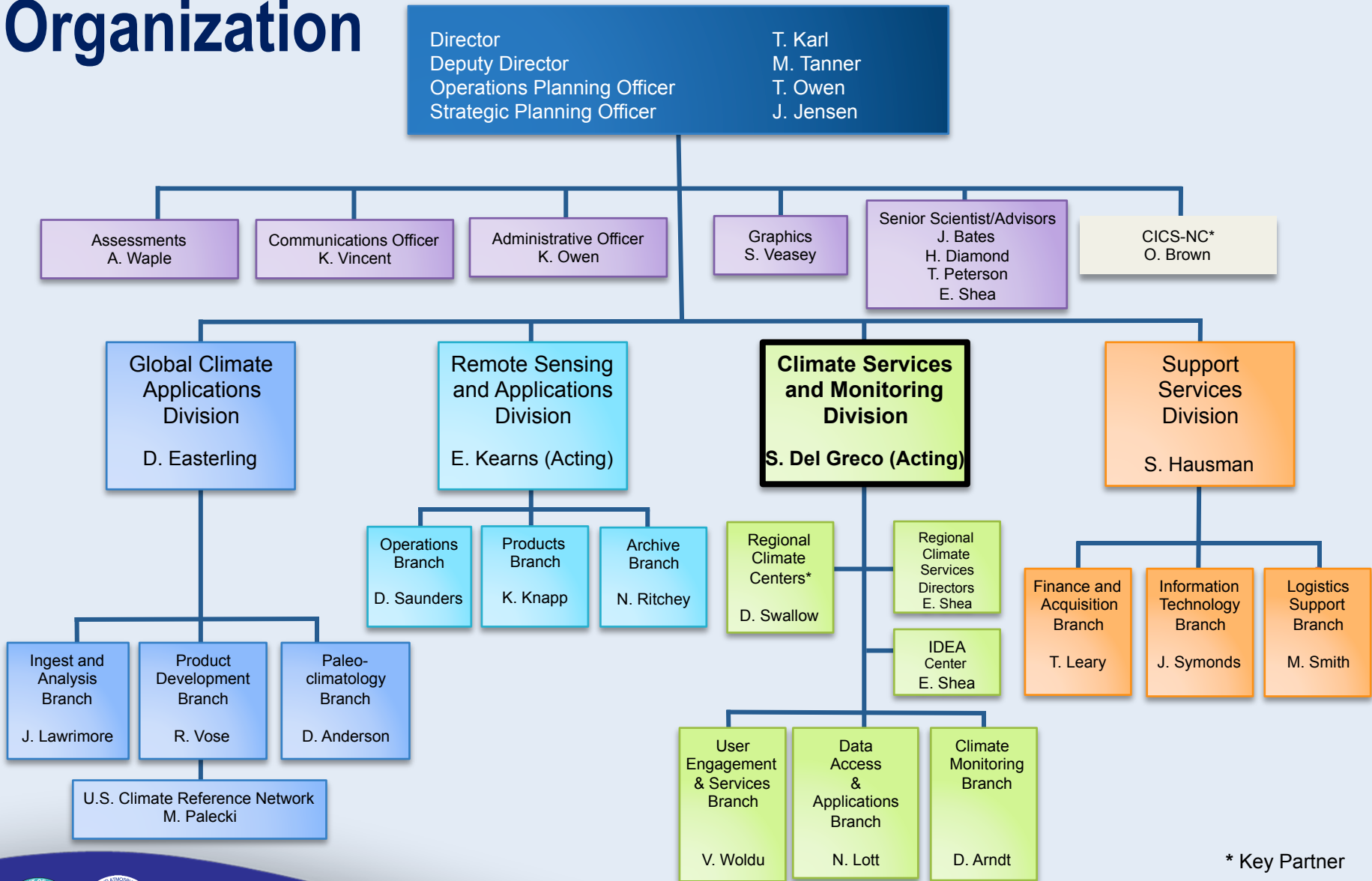
Steve DelGreco

Acting Chief

Climate Services and Monitoring Division



# NOAA's National Climatic Data Center Organization



\* Key Partner



# Serving Wide Range of Customers

- Consulting Meteorologist
- Agriculture
- Contractor
- Utilities
- Federal Government
- State/Local Government
- Research
- Media
- University
- Insurance
- Engineering
- Individual
- Legal
- Other Business

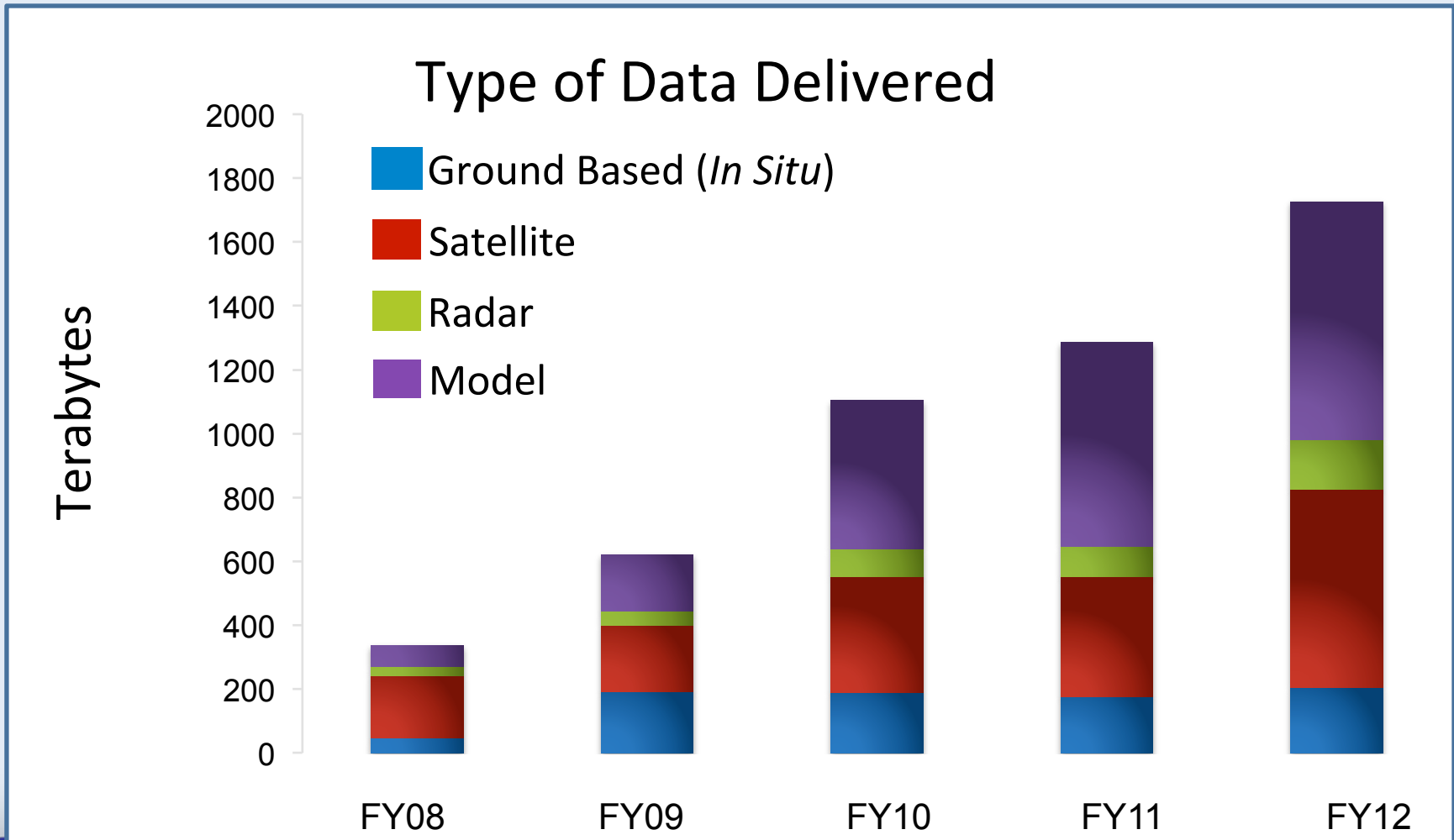


# Sectoral Engagement

- Agriculture
- Civil Infrastructure
- Coastal Hazards
- Energy
- Health
- Insurance
- Litigation
- Marine and Coastal Ecosystems
- National Security
- Tourism
- Transportation
- Water Resources



# Demand for NCDC Data Continues to Grow



# Use-inspired Climate Products

## Climate

- “Climate is what you expect, weather is what you get” Mark Twain

## Climate Services

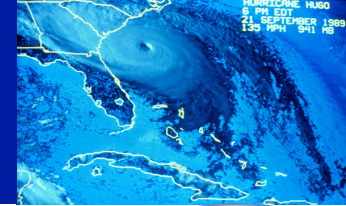
- “A mechanism to identify, produce, and deliver authoritative and timely information about climate variations and trends and their impacts on built, social-human, and natural systems on regional, national, and global scales to support decision making.” - NRC 2009



# Example NOAA Climate Products and Services



# Public Sector Dataset Discovery Day



Public  
Sector

Private  
Sector

Academia

## NCDC OBJECTIVES OF ENGAGEMENT WITH PRIVATE SECTOR

- Understand sector connection to NCDC
- Identify uses and applications of NCDC climate datasets
- Identify professional associations using the datasets
- Understand barriers / challenges faced by private sector and professional associations in uses of data

### DATASET DISCOVERY DAY



DATASET DISCOVERY DAY  
Discussion on Climate Data And Applications  
NOAA's National Climatic Data Center — Room 264  
Asheville, NC



#### INTRODUCTION

NOAA's National Climatic Data Center and the Cooperative Institute for Climate and Satellites - North Carolina (CICS-NC) are pleased to host the first Dataset Discovery Day, to be held at NCDC in Asheville, North Carolina. Participants may attend the workshop at NCDC or attend via webex participation on three of the discussions marked on the agenda for webex (please register for the webex using the Registration links to the right).

Please use the links on the right side to navigate this site.

#### BACKGROUND

"Dataset Discovery Day" is a two-day workshop interaction to inform users of NCDC data offerings of sector-specific needs in climate information. In addition we will explore future research needs. The strategy is to engage leaders in specific sectors that use climate and environmental information.

This workshop is to bring together business leaders, decision-makers, entrepreneurs, innovators and scientists to discuss NCDC's climate data, applications of the data, and future uses of climate information. Through this collaborative discussion, we hope to uncover innovative opportunities for the market and research needs that can be provided to the scientific and academic communities.

#### OBJECTIVES

- Advance literacy on climate data and products for the private sector, and increase understanding of users' needs for climate information
- Discuss example case studies of decision-support tools and their applications
- Continue to build networks between industry, academia, and solution-providers interested in managing their risks, particularly with respect to climate adaptation

For more information on NCDC and its sectoral engagement activities, please visit the website at: <http://www.ncdc.noaa.gov/sectoral-regional>.

For more information on NCDC's academic partner, CICS-NC, please visit here: [www.cicsnc.org](http://www.cicsnc.org).

## OBJECTIVES

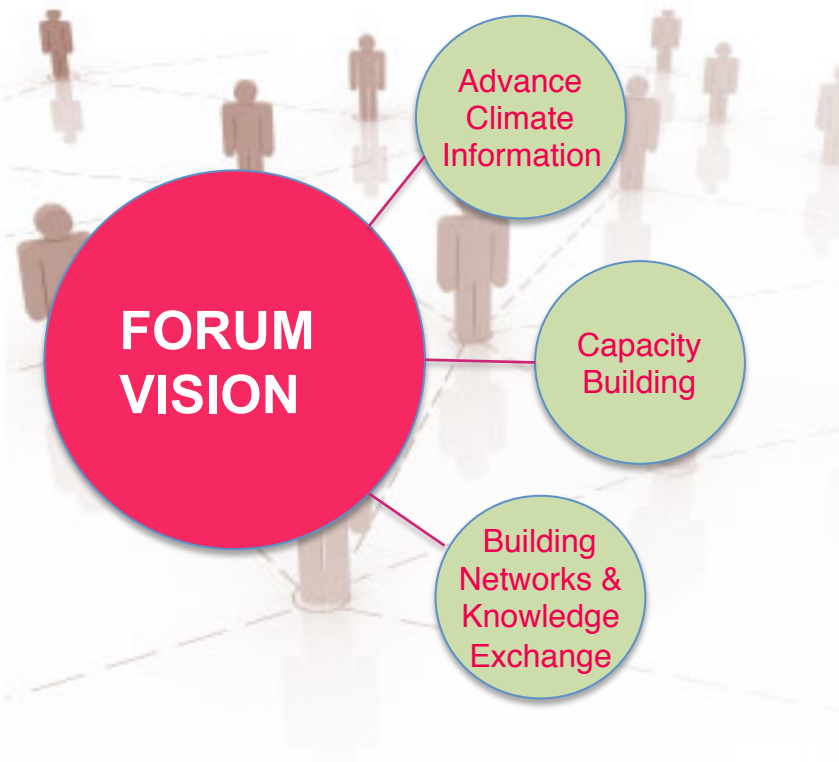
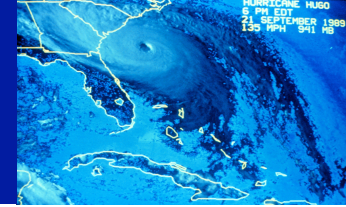
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## SCHEDULE

- Workshop 1: **Severe Weather Data (including RADAR)**
  - November 28 – 29th, 2012
- Workshop 2: **Frost Freeze Data**
  - February 27 – 28th, 2013
- Workshop 3: **Satellite Climate Data Record**
  - June 2013 (Dates TBC)
- Website: <http://www.cicsnc.org/events/ddd/>



# Executive Forum on Business and Climate: Vision and Objectives



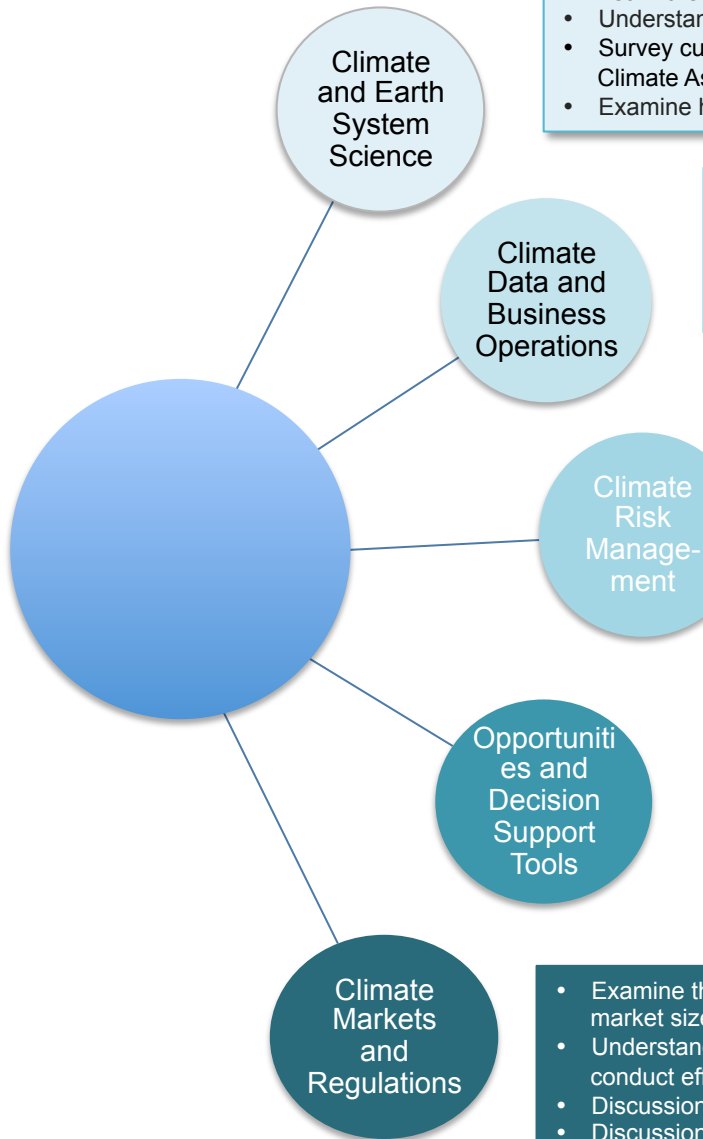
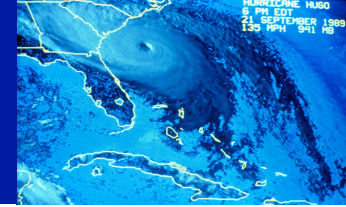
## BACKGROUND

- NOAA's NCDC and CICS-NC is examining how US businesses can develop a strategic advantage by employing weather and climate information for better decision-making
- Currently in process of developing a four-day executive forum that explores the connection between weather and climate information and the industries that not only rely on this data but also are impacted by changes in trends of this data.
- Through a combination of interactive discussions, case studies, lectures, and scenario-planning activities, participants will become familiar with climate science, available weather and climate data and science, weather and climate risk implications, available tools in the market, the broader climate market and the current state of the regulatory and policy framework.

## OBJECTIVES:

- **Expand each participant's knowledge and awareness of weather/climate information and impacts on the resources relevant to businesses**
- **Establish an ongoing educational seminar with expertise from the scientific community (NCDC and CICS-NC) in Asheville, North Carolina**
- **Scale up seminar and training to business leaders**
- **Grow network of weather and climate informed decision-makers**

# Executive Forum on Business and Climate: Curriculum - *DRAFT*



- Learn the basics of the Earth system and weather/climate science
- Understand the various weather/climate models developed by reputable research institutions
- Survey current climatic trends in the U.S. using data from NOAA's National Climatic Data Center and the National Climate Assessment report
- Examine how to make sense of the current trends and opportunities and limitations of climate projections

- Examine weather/climate information available today from NOAA's National Climatic Data Center
- Identify the relevant weather/climate information and its connection to specific industry operations
- Discuss the impact of changing climatic conditions to operations, including the impact of extreme/severe events
- Discuss the need and availability of tools in the marketplace to address impacts

- Discuss the levels and bandwidths of consequences of uncertain and unexpected climate/weather events
- Identify the key weather/climate risk events that can derail strategic objectives, recognizing that weather/climate risk is a risk in an inter-connected complex system
- Discuss the prioritization of climatic risks and risk assessment options
- Examine the technological, governmental, and public pressures facing various industries
- Analyze the national and regional market structures across various sectors

- Discuss actionable options available today
- Discuss iterative climate adaptation decision-making processes for addressing climate risks/opportunities to enable effective course of action in various industries
- Examine the growing need for climate-related decision support strategies and tools
- Review case studies of observational datasets and tools, including GIS, to improve decision-making in various industries to address weather/climate risks
- Explore methods and practical approaches to communication of weather/climate information

- Examine the current climate market, with a profile of emerging opportunities, growth trends and leading players, market size, investments and activities ,etc.
- Understand recent developments and trends within national regulatory environments, and understand options to conduct effective strategic planning in the context of international regulatory framing
- Discussion on climate aspects of existing legislation (e.g. building codes)
- Discussion on impacts of UK's Climate Change Act of 2008 to the market

# Moving Forward

- Focus on user-driven science.
- Greater emphasis on applications of science and data.
- NCDC recognizes the need to connect with users.
- Partnerships across the public/private/academic enterprises.

