

NOAA UPDATE

Scientific Advisory Board

Kathryn D. Sullivan, Ph.D.
Under Secretary Of Commerce for Oceans and
Atmosphere
and NOAA Administrator

November, 2014
Silver Spring, MD



CHANGES IN NOAA LEADERSHIP



Dr. Holly Bamford
**Acting Assistant Secretary of
Conservation and Management**



VADM Manson Brown
Senior Advisor



Dr. Stephen Volz
NESDIS AA



Dr. David Yoskowitz
Chief Economist

NOAA

America's Environmental Intelligence Agency

*Putting environmental information into
the hands of people who need it.*



ENVIRONMENTAL INTELLIGENCE



Observations

Monitoring

Assessment

Modeling

Forecasts and
Products

TOP PRIORITIES FOR 2014-2018

1

Make
communities
more resilient

2

Evolve the
Weather
Service

3

Invest in
observational
infrastructure

4

Achieve Organizational Excellence

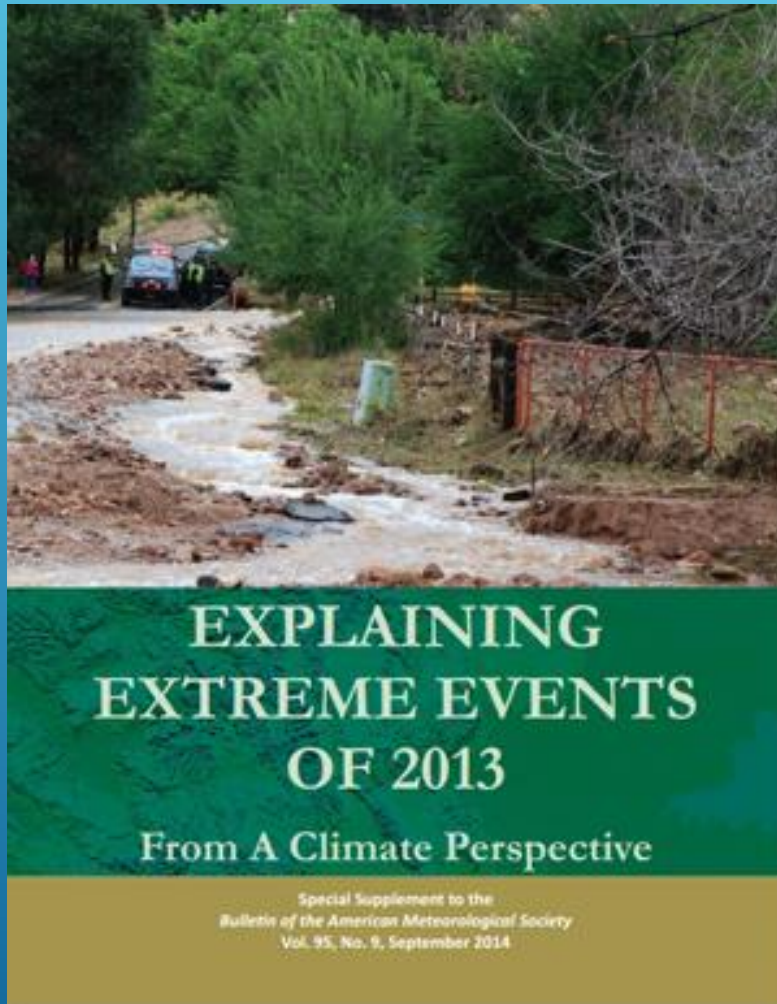


PREEMINENT SCIENCE



Ed Dlugokencky, OAR
David Easterling, NESDIS
Richard Feely, OAR
Graham Feingold, OAR
Isaac Held, OAR
Anne Hollowed, NMFS
Gregory C. Johnson, OAR
James Kossin, NESDIS
Ngar-Cheung Lau, OAR
James Overland, OAR
Roger Pulwarty, OAR
Venkatachala Ramaswamy, OAR
Akkihebbal Ravishankara, OAR
Christopher Sabine, OAR
Petrus Tans, OAR
Gabriel Vecchi, OAR

REPORTS



NOAA Technical Report NOS CO-OPS 073

Sea Level Rise and Nuisance Flood Frequency Changes around the United States



City Dock in Annapolis, Maryland. Photo Credit: Amy McGovern.

Silver Spring, Maryland

June 2014



noaa National Oceanic and Atmospheric Administration

U.S. DEPARTMENT OF COMMERCE
National Ocean Service
Center for Operational Oceanographic Products and Services

Make communities more resilient

HEALTHY OCEANS



Pacific Remote Islands National Monument expanded

Marine biodiversity monitoring networks



3 demonstration projects

- Florida Keys
- Monterey Bay and the Santa Barbara Channel in California
- Continental shelf in the Chukchi Sea in Alaska

Make communities more resilient

HEALTHY GREAT LAKES



Thunder Bay National Marine
Sanctuary expansion



Lake level viewer

Make communities more resilient

GREEN INFRASTRUCTURE



Land Cover Atlas
Digital Coast



Priority Agenda

Enhancing the Climate Resilience



of America's

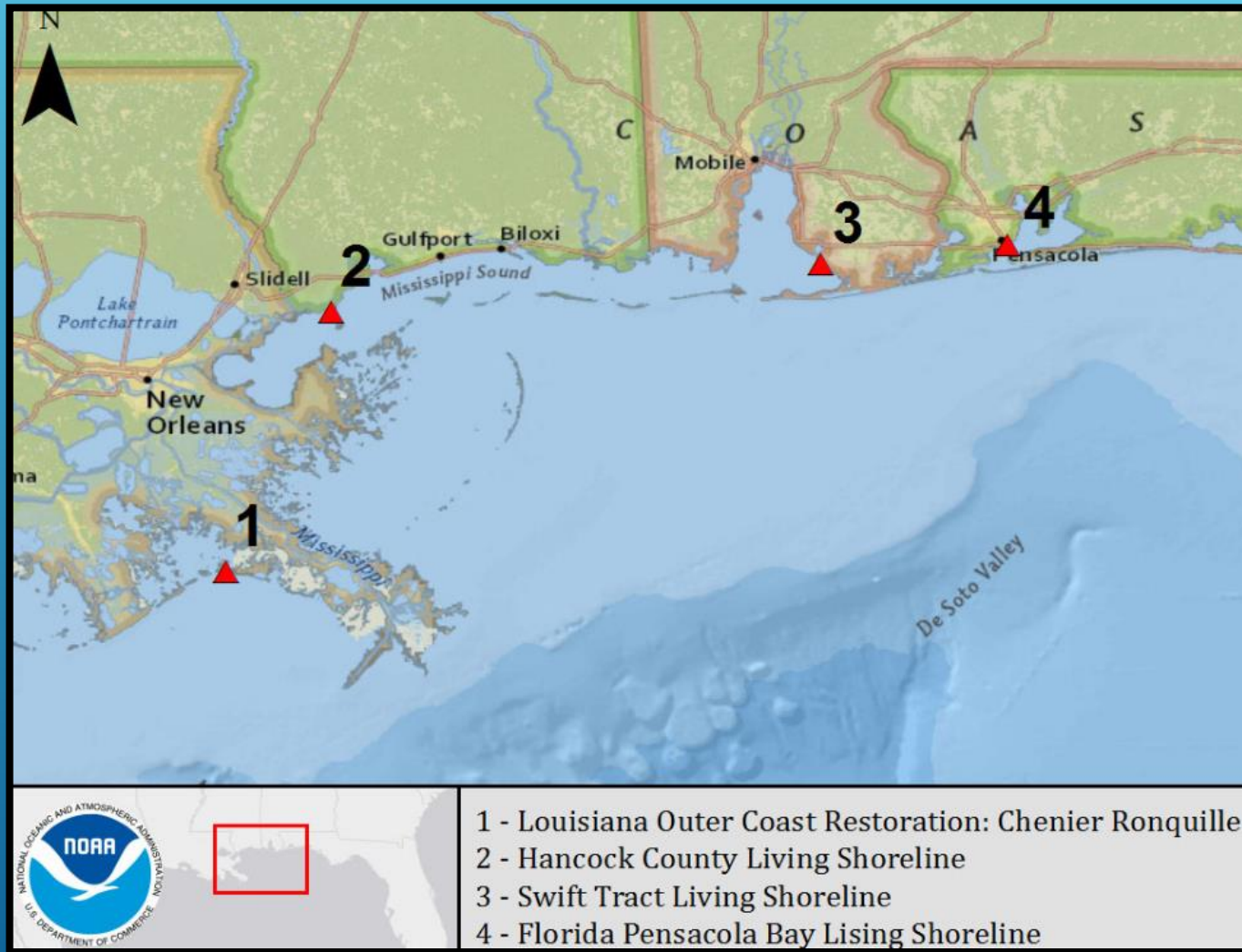
Natural Resources

COUNCIL ON CLIMATE PREPAREDNESS AND RESILIENCE



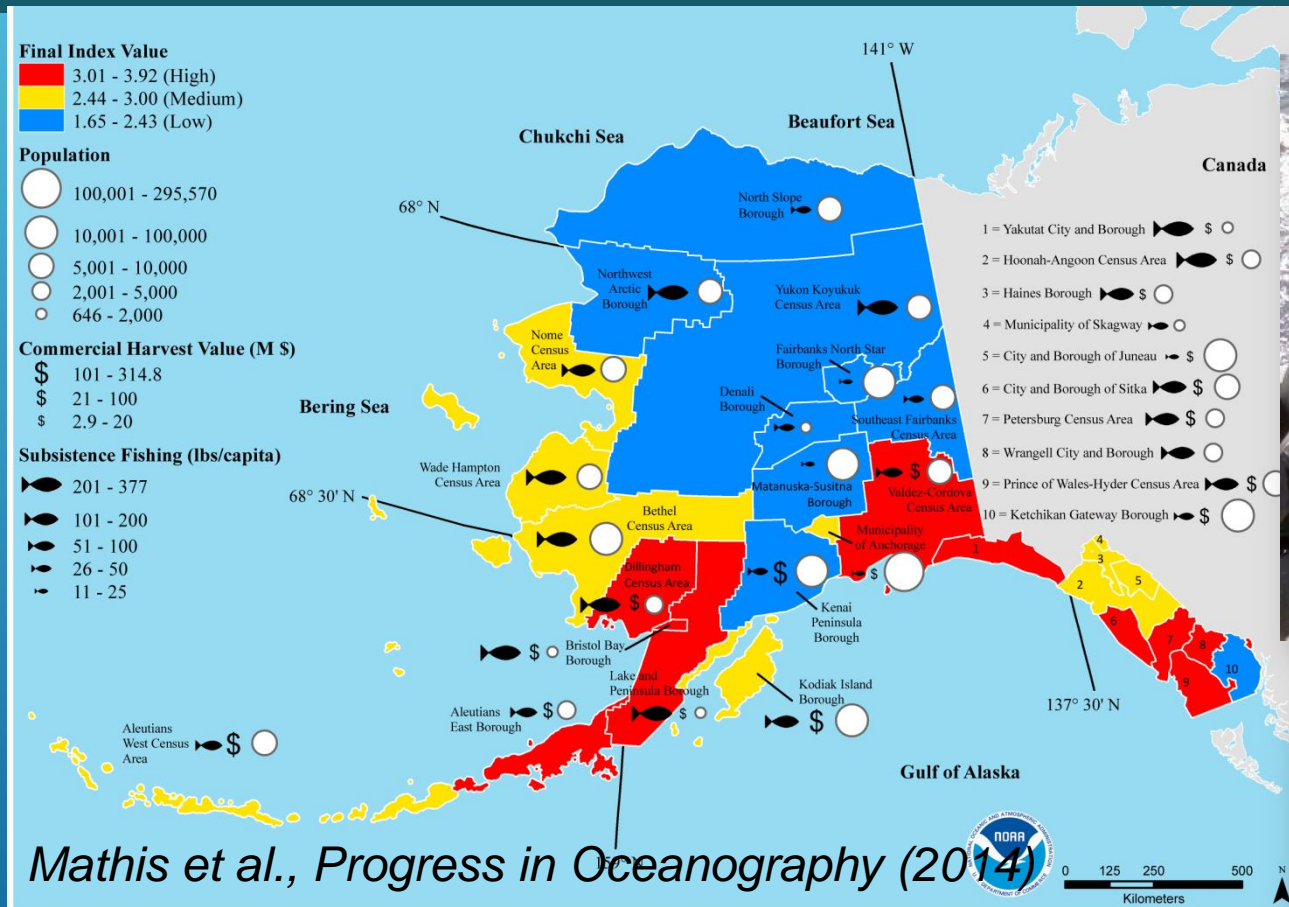
Hoboken, NJ
Rebuild by
Design Winner

GULF RESTORATION



Make communities more resilient

ECONOMIC, SOCIAL, AND ECOLOGICAL RESILIENCE



Alaska fisheries and communities at risk from ocean acidification

NOAA SCIENCE ADVISORY BOARD

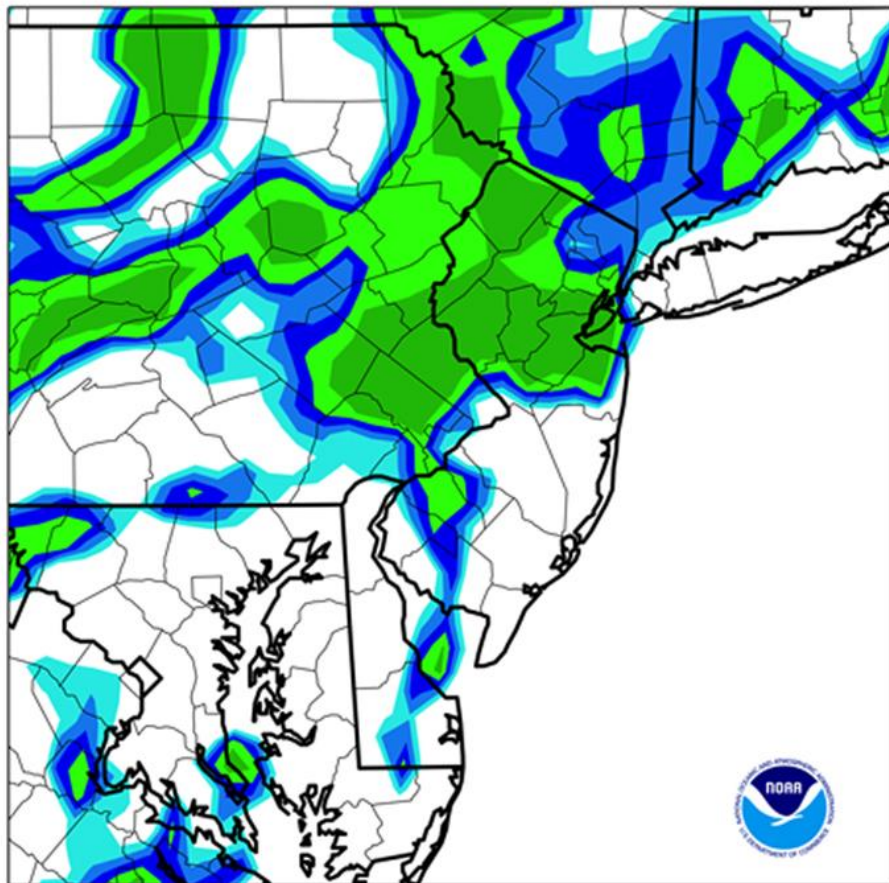
Evolve the Weather Service

HIGH-RESOLUTION RAPID REFRESH MODEL

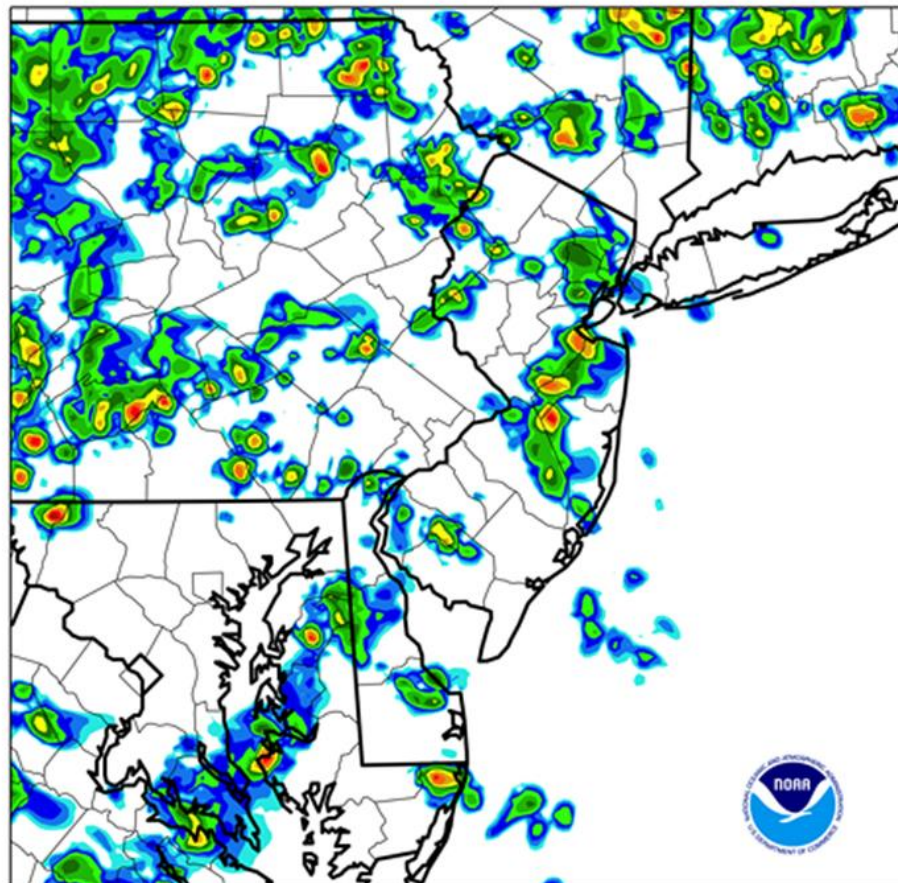
TRANSITION TO OPERATIONS



Existing Weather Model



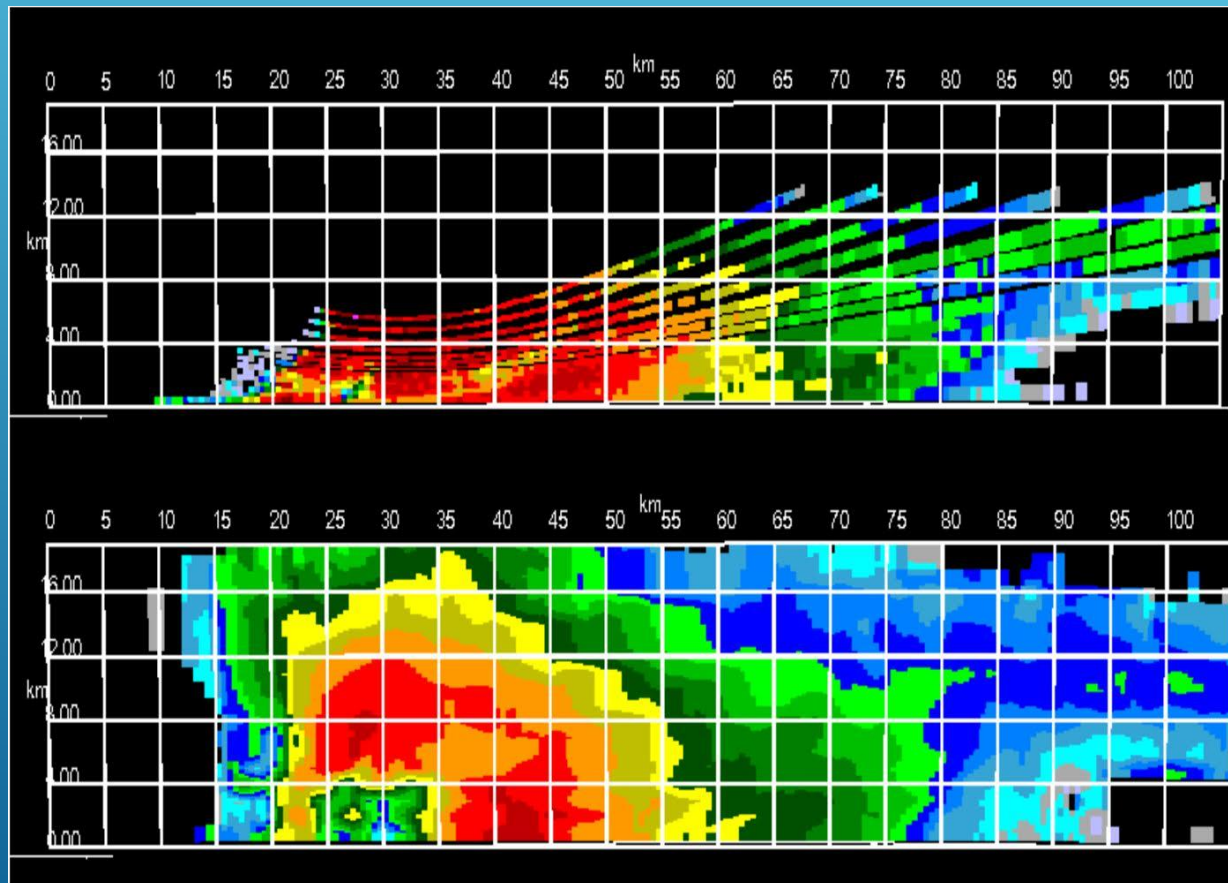
New HRRR Weather Model



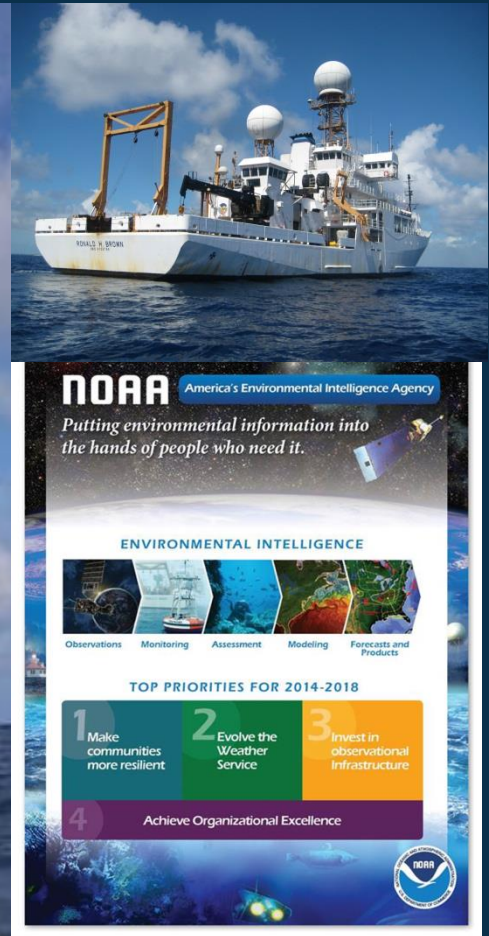
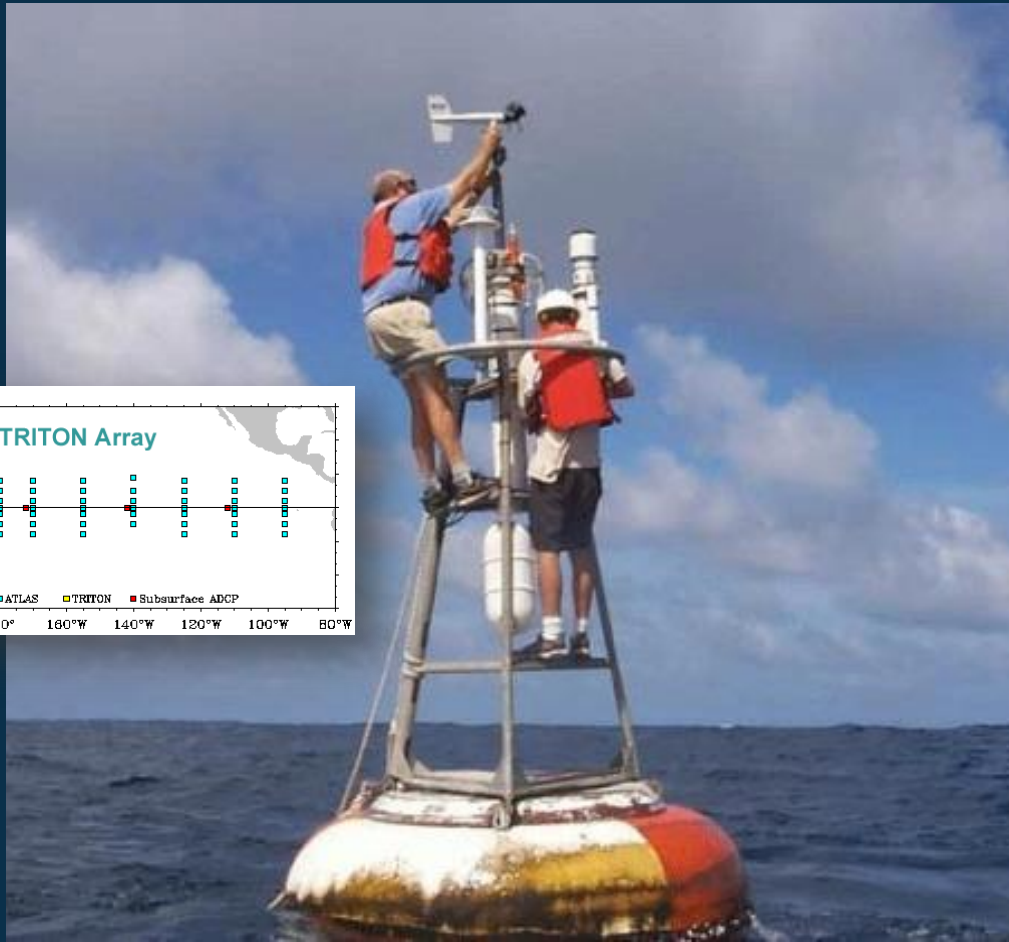
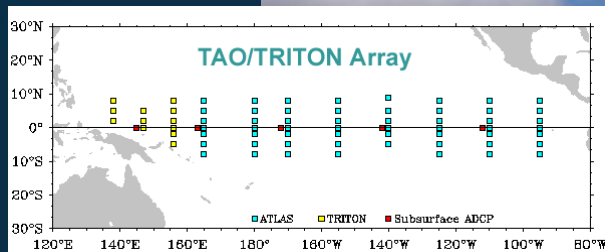
Evolve the Weather Service

MULTI-RADAR MULTI-SENSOR SYSTEM

TRANSITION TO OPERATIONS



Invest in OBSERVATIONAL INFRASTRUCTURE



Achieve organizational excellence

SPOTLIGHT

Oceanography: Where's the heat?



Greg Johnson



John Lyman

AMS President



Sandy MacDonald

7th Biennial Education and Science Forum for EPP's Cooperative Science Centers

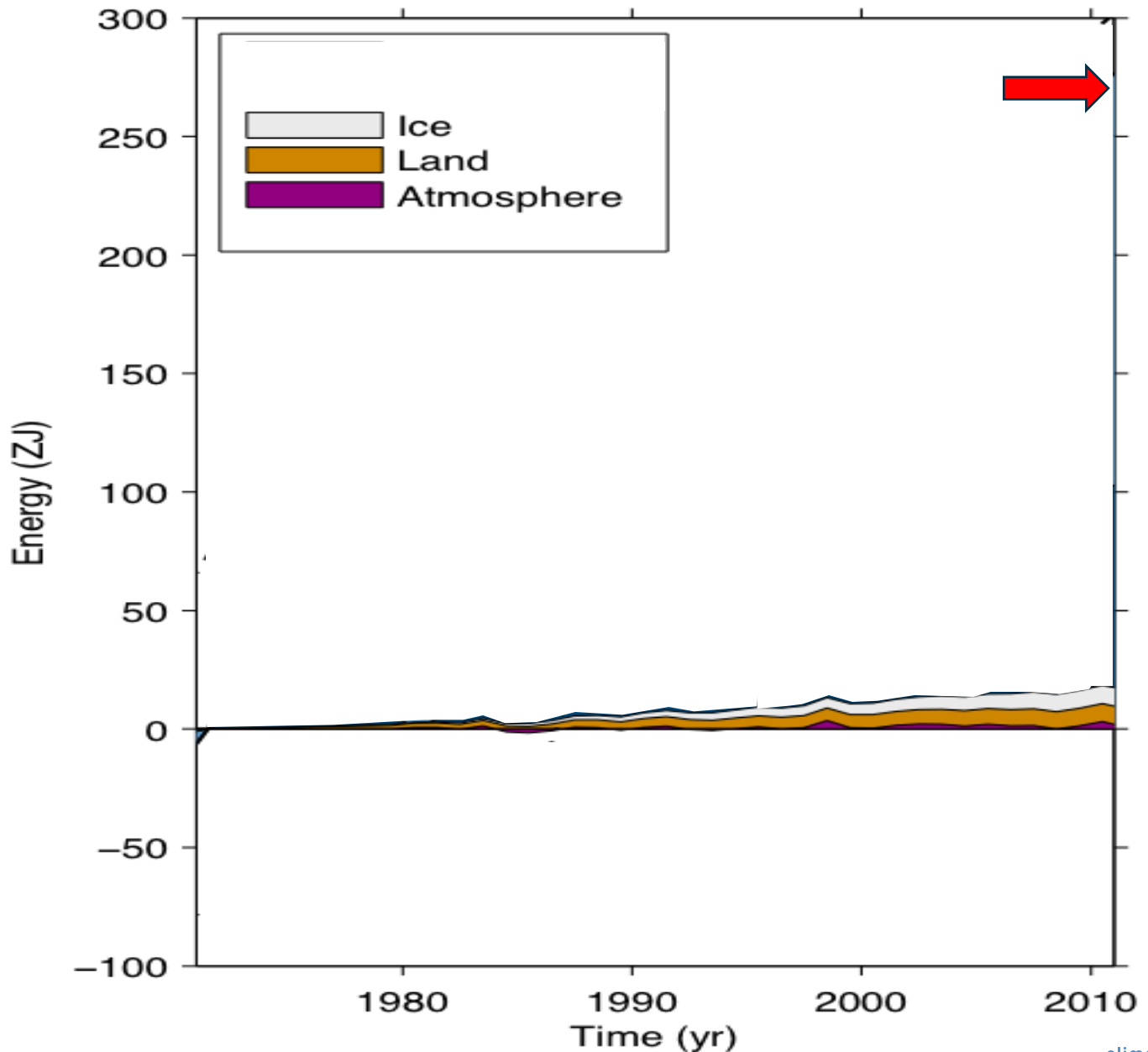


Global Energy Storage

Atmospheric Warming accounts for about 1% of energy storage

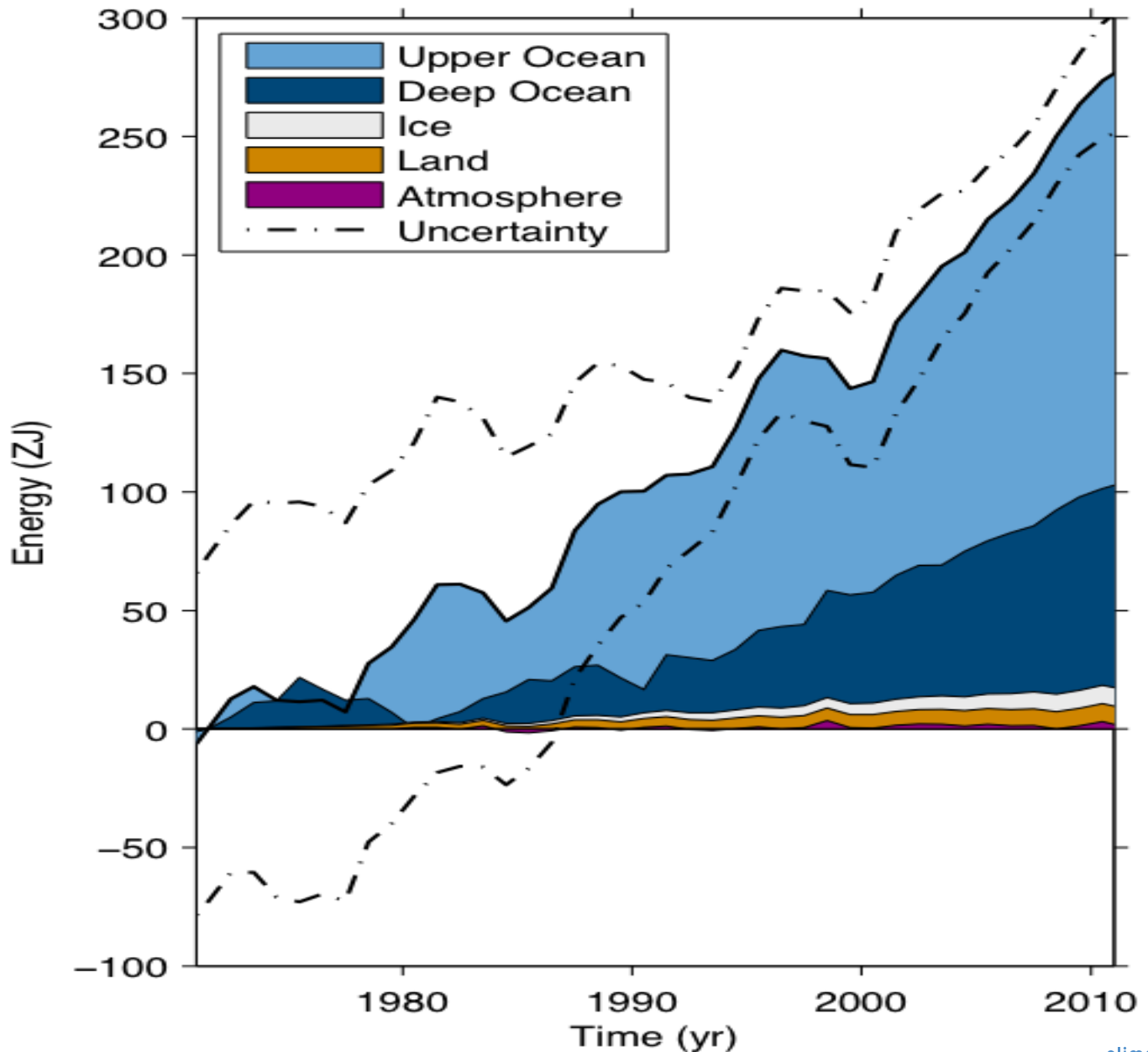
Melting Ice (including Arctic sea ice) accounts for ~3% of energy storage

Warming Land accounts for ~3% of energy storage



Global Energy Storage

Ocean Warming accounts for about ~93% of total energy storage



The heat we are putting in the ocean will be trapped there for many thousands of years

Achieve organizational excellence

SPOTLIGHT

Oceanography: Where's the heat?



Greg Johnson



John Lyman

AMS President



Sandy MacDonald

7th Biennial Education and Science Forum for EPP's Cooperative Science Centers



NOAA

America's Environmental Intelligence Agency

*Putting environmental information into
the hands of people who need it.*



ENVIRONMENTAL INTELLIGENCE



Observations

Monitoring

Assessment

Modeling

Forecasts and
Products

TOP PRIORITIES FOR 2014-2018

1

Make
communities
more resilient

2

Evolve the
Weather
Service

3

Invest in
observational
infrastructure

4

Achieve Organizational Excellence

www.noaa.gov

