



INTERAGENCY FORUM ON CLIMATE RISKS, IMPACTS, AND ADAPTATION

CLIMATE RISK MANAGEMENT: Best Available Science and Best Management Practices

Presentation by—

Dr. Thomas E. Fish

Co-Chair, Interagency Forum on Climate Risks, Impacts, and Adaptation (National Coordinator, Cooperative Ecosystem Studies Units (CESU) Network, U.S. Department of the Interior)

11 January 2018

National Institute of Building Sciences (NIBS)

6th Conference – "Building Innovation 2018 Conference and Expo: Sustain. Strengthen. Secure."

10:15-11:45 AM | Panel on "Climate Resilience: Adaptive Design and Risk Management"

08-11 January 2018 | Mandarin Oriental Hotel, Washington DC

Contact Person: Dr. Richard Wright, ASCE



INTERAGENCY FORUM

11th Year (Established 2007)

Interagency Forum

On Climate Risks, Impacts, and Adaptation



The Forum's scope includes but is not limited to aspects of the following:

A Federal Agency is mandated to

31 U.S.C. §3512

Safeguard: Funds, Property, and Other Assets

Exposure to "Material Weakness" requirements; with statutory related "Disclosure" to Congress, and to taxpayers and the public, unless a specific statutory exemption applies

Further, an Agency is mandated to

31 U.S.C. §1115

Manage High Risk Management Challenges, Identified by GAO+ or IG

* "Limiting the Federal Government's Fiscal Exposure by better managing climate change risks" URL: http://www.gao.gov/highrisk/limiting_federal_government_fiscal_exposure/why_did_study



"Knowledge Networks" = Interagency Forum

CONNECTING PRODUCERS & USERS OF CLIMATE SCIENCE: PROVEN INSTITUTIONAL ARRANGEMENTS & MECHANISMS*

* L DILLING & M C LEMOS (2011) "CREATING USABLE SCIENCE: OPPORTUNITIES AND CONSTRAINTS FOR CLIMATE KNOWLEDGE USE AND THEIR IMPLICATIONS FOR SCIENCE POLICY"; GLOBAL ENVIRONMENTAL; CHANGE, PAGES 680-689

<u> </u>	•	
Institutional Arrangements & Mechanisms	Description	Remarks: NASA's Approach
1) Information Brokers	Broker is an intermediary between the user and the scientists	NASA's contractor consultant is currently SAIC
2) Collaborative Group Processes	Many groups with a vested the outcome and where decision making is highly distributed	NASA "Oversight Steering Group": Directorate level stakeholders that coordinate efforts
3) Embedded Capacity	Local climate scientists available to provide information and advice	NASA Climate Adaptation Science Investigators (CASI) are NASA climate scientists at NASA Centers doing local applied research
4) Boundary Organizations	Functions between the world of research and use of science to tailor information and produce value-added products; translation and customization of climate information to specific users	NASA "Core Team" on Climate Risks & Adaptation: implementation team that designs workshops and information products
5) Knowledge Networks	Comprised of policy makers, scientists, government agencies, and non-government organizations that communicate and share information across areas of practice	Interagency Forum on Climate Change Impacts & Adaptations: (NASA, USACE, and others) NASA is Forum Co-Chair and uses the Forum to spin- in best practices.



INTERAGENCY FORUM

The Forum seeks out examples of:

- > Best Available Science
- > Best Management Practices
- Lessons Learned







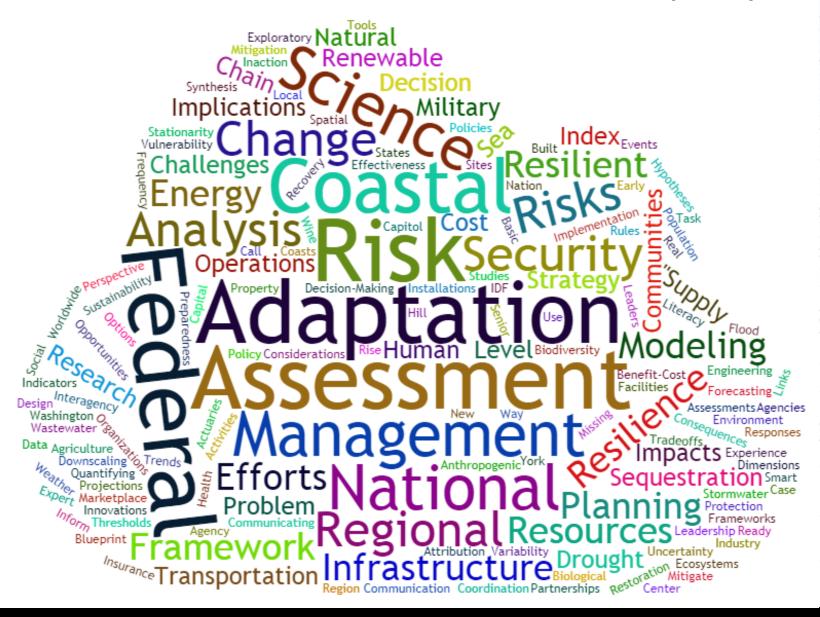








Example Topics





Example Participating Federal Agencies (n>30)

NASA

U.S. Department of Agriculture

- Agricultural Research Service
- Natural Resources Conservation Service
- Rural Development
- U.S. Forest Service

U.S. Department of Commerce

 National Oceanic and Atmospheric Administration

U.S. Department of Defense

- U.S. Air Force
- U.S. Army
- U.S. Army Corps of Engineers
- Assistant Secretary for Installations, Energy and Environment
- U.S. Navy
- National War College

U.S. Department of Energy

U.S. Department of Homeland Security

- Federal Emergency Management Agency
- U.S. Coast Guard

Smithsonian Institution

U.S. Department of the Interior

- U.S. Fish and Wildlife Service
- U.S. Geological Survey
- National Park Service

U.S. Department of Justice

U.S. Department of State

• U.S. Agency for International Development

U.S. Department of Transportation

- Federal Aviation Administration
- Federal Highway Administration

U.S. Environmental Protection Agency

U.S. Global Change Research Program

U.S. Government Accountability Office

General Services Administration

National Academies

- National Academy of Sciences
- National Research Council

National Institutes of Health

Office of Science and Technology Policy

White House Council on Environmental Quality



INTERAGENCY FORUM

Over 100 Participants Involved



PARTICIPANTS - Geographic Extent:

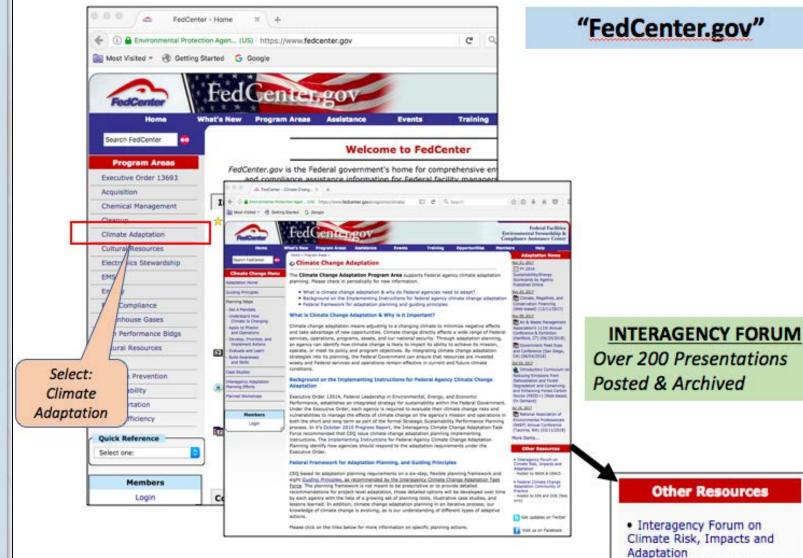
West-East: Hawaii to Europe North-South: Alaska to Florida





National Institute of BUILDING SCIENCES

CONFERENCE & EXPO



- Hosted by NASA & USACE



(Past) SPECIAL EVENTS

- > 2nd International Technical Workshop on Climate Risks
- > Special Training Event: Climate Change Installation Adaptation & Resilience
- > Special Training Event: Climate Risk Management
- > Special Training Event: Climate Adaptation and Infrastructure Engineering
- Climate and Energy: Extreme Weather and Climate Events
- Special Training Event: Climate Change and Adaptation



Source: NASA



Next Forum – 18 JAN 2018

- > Acts of God, Human Influence and Litigation
 - L. Patton, Earth and Water Law, LLC -
- Superfund Sites and Sea-Level Rise
 - J. Kiraly, American University
- > Puerto Rico the 'Island of Enchantment' after Hurricane Maria
 - J. Groman, Chief, Facilities Engineering Branch, NASA

