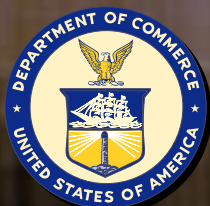
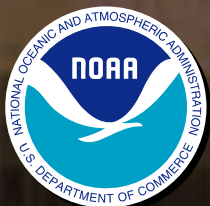

NOAA's National Weather Service *Meeting America's Needs*

Brig. Gen. David L. Johnson, USAF (Ret.)
NOAA Assistant Administrator for Weather Services

AMS Public Health Forum
April 16, 2007



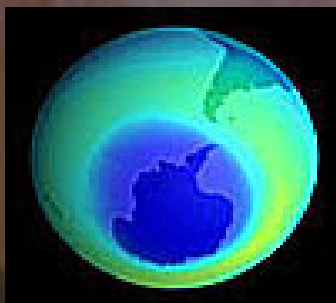
"America's Weather Enterprise: Protecting Lives, Livelihoods, and Your Way of Life"



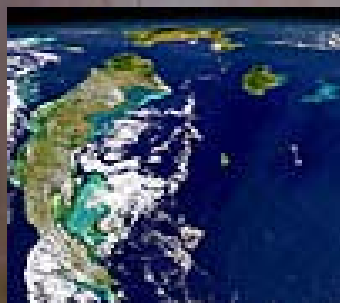
NOAA's National Weather Service

Presentation Overview

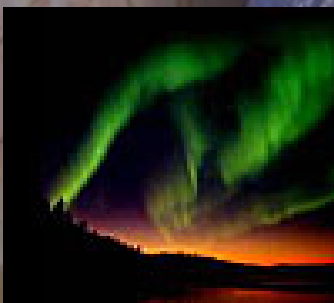
- **The National Weather Service Overview**
 - *We're In Your Neighborhood*
- **The Nation's Risks:**
 - Extreme Climate, Weather, and Water
 - The Future
- **NWS and Public Health:**
 - *A Prescription for America*



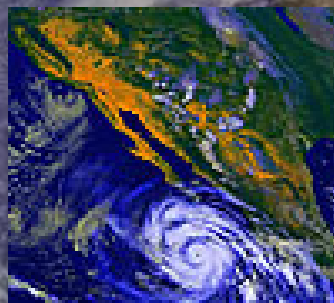
Climate



Oceans



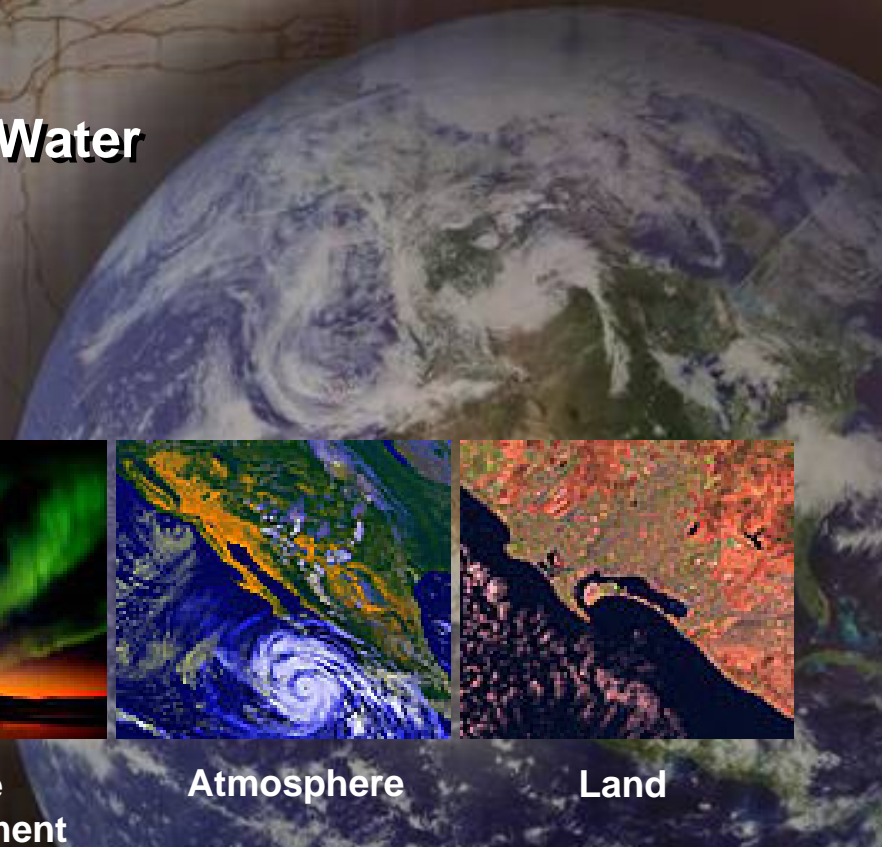
Space
Environment



Atmosphere



Land



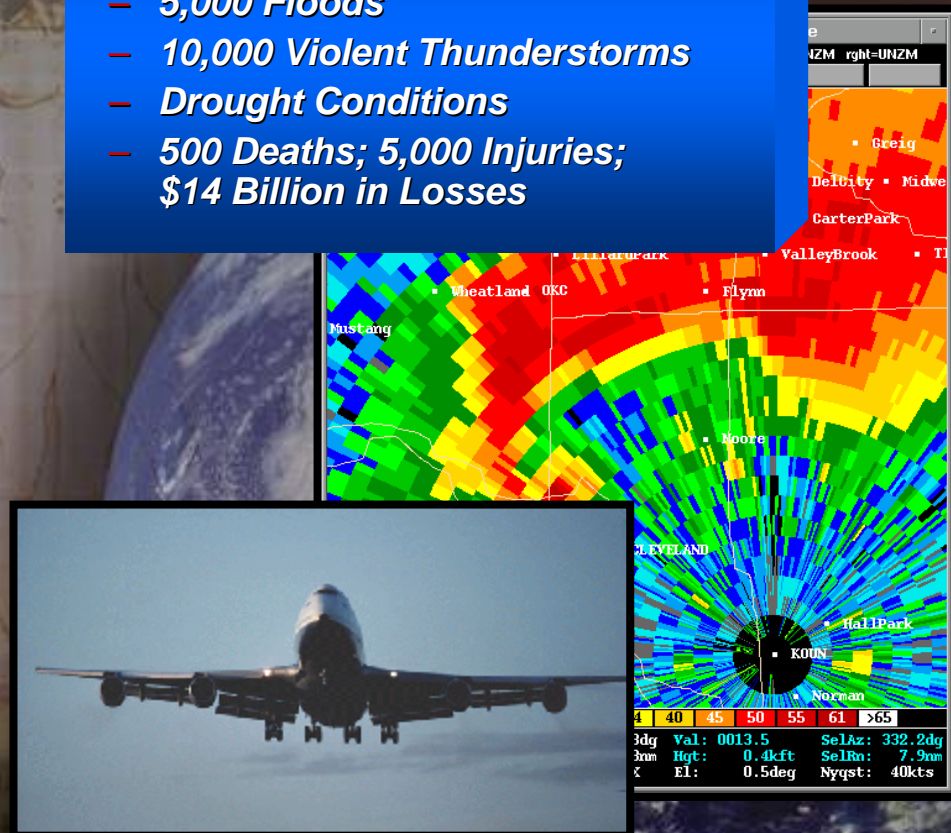


NWS Overview

- Provide climate, water, weather forecasts and warnings to protect **life** and **property** and enhance the economy
- 76 billion observations
- 1.5 million forecasts
- 50,000 warnings

A Typical Year Brings:

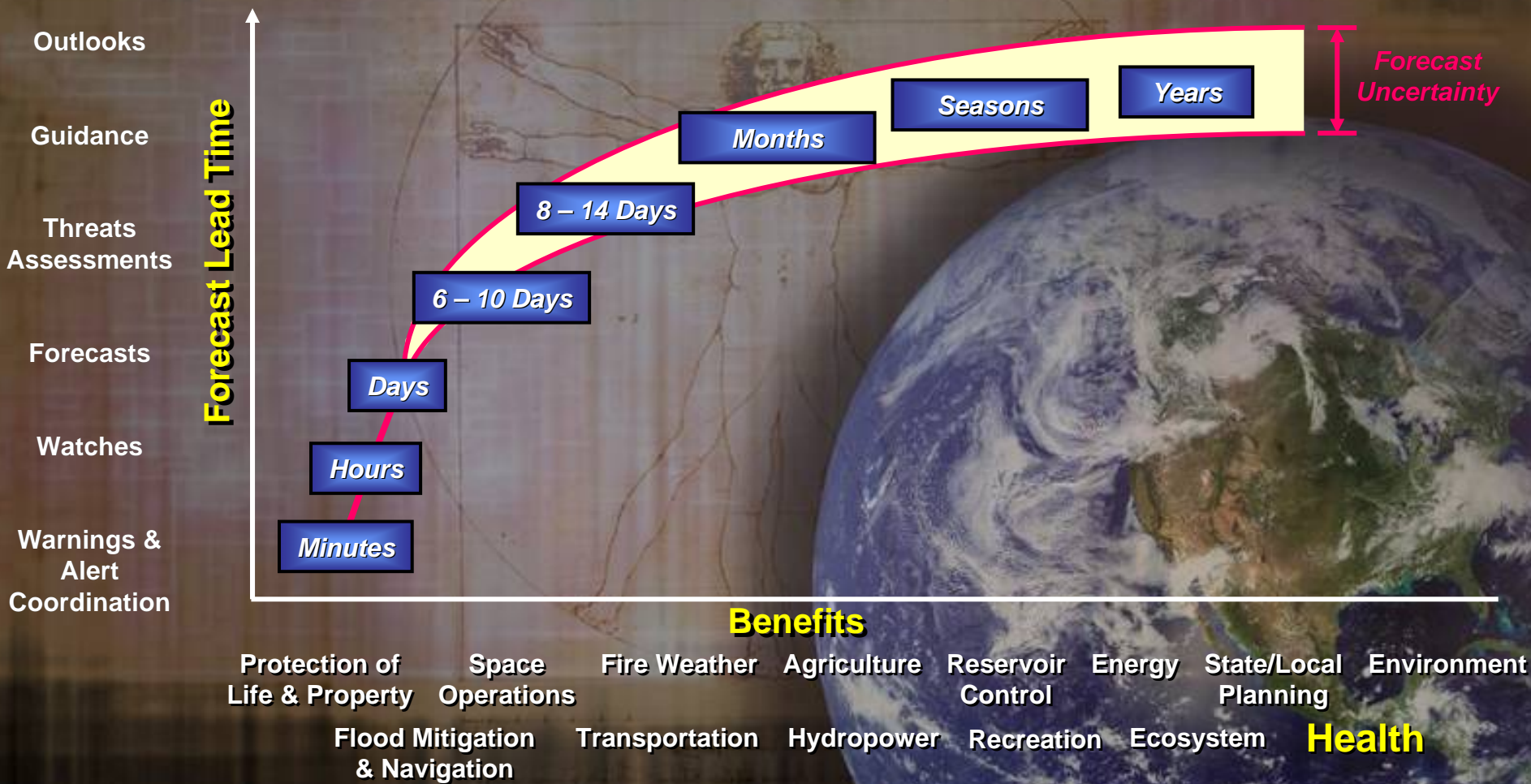
- 7 Hurricanes
- 1,000 Tornadoes
- 5,000 Floods
- 10,000 Violent Thunderstorms
- Drought Conditions
- 500 Deaths; 5,000 Injuries;
\$14 Billion in Losses





NWS Overview

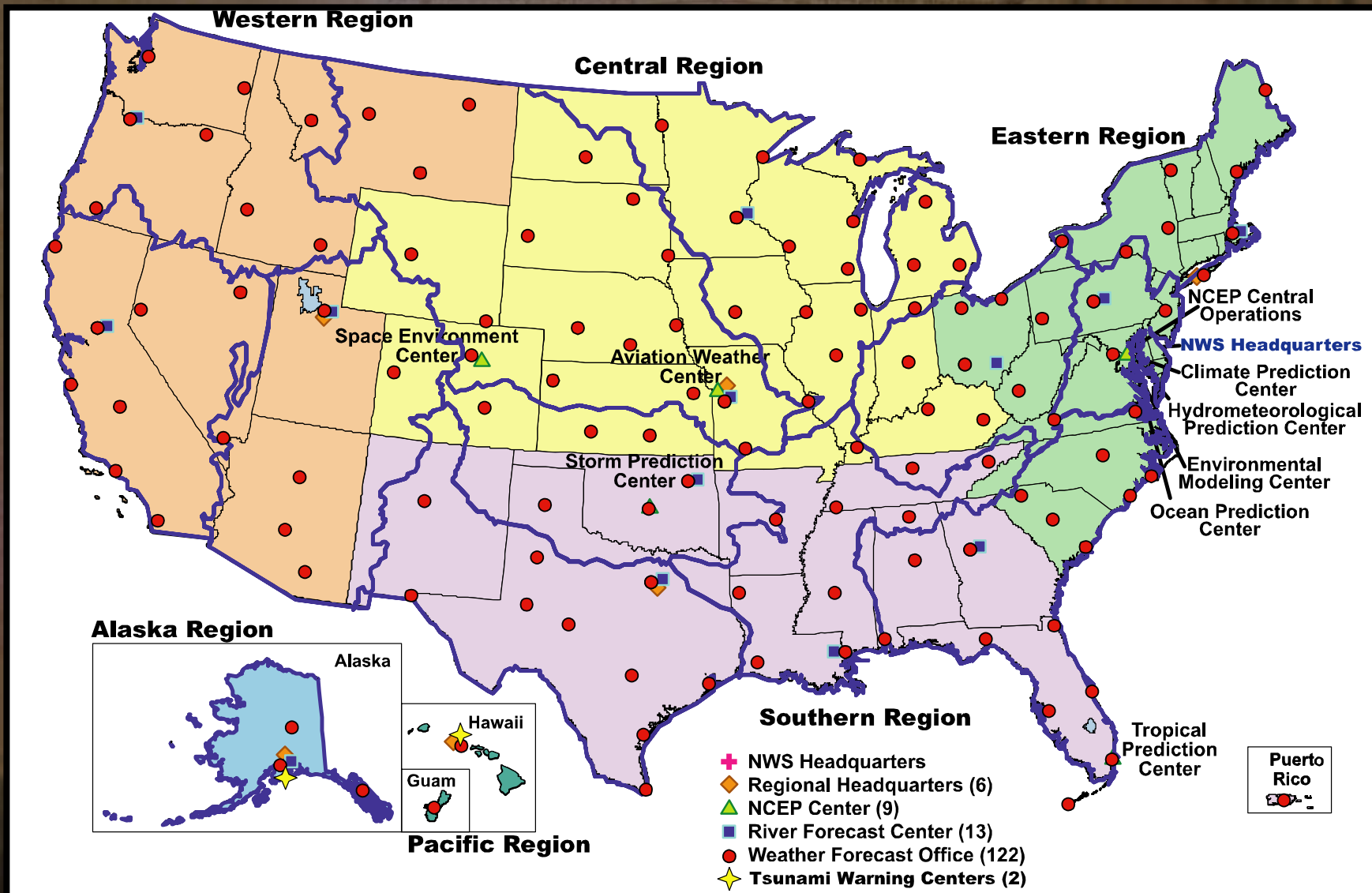
Seamless Suite of Products





NWS Overview

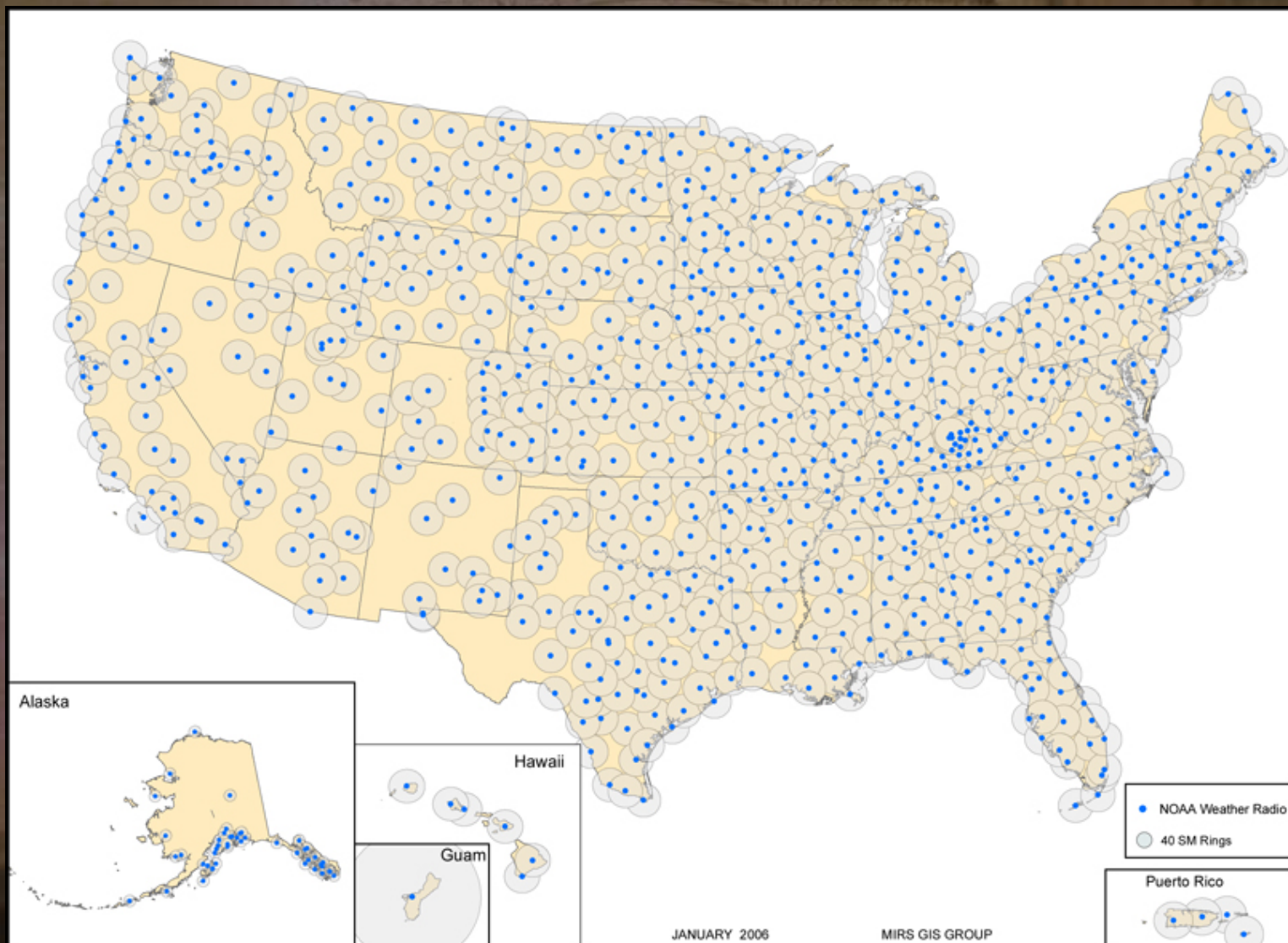
Facilities





NWS Overview

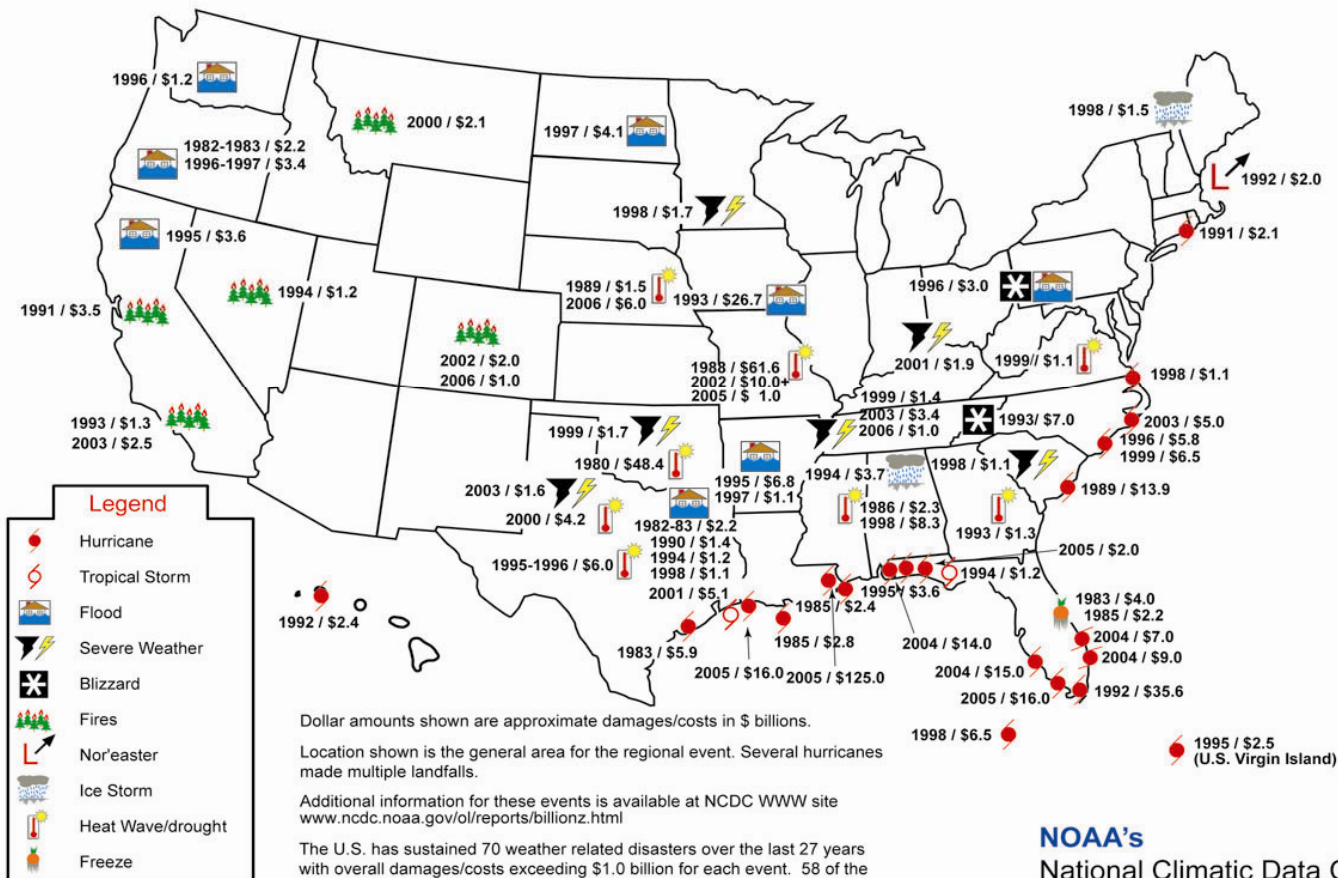
NOAA Weather Radio All Hazards

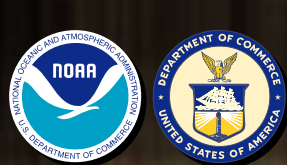




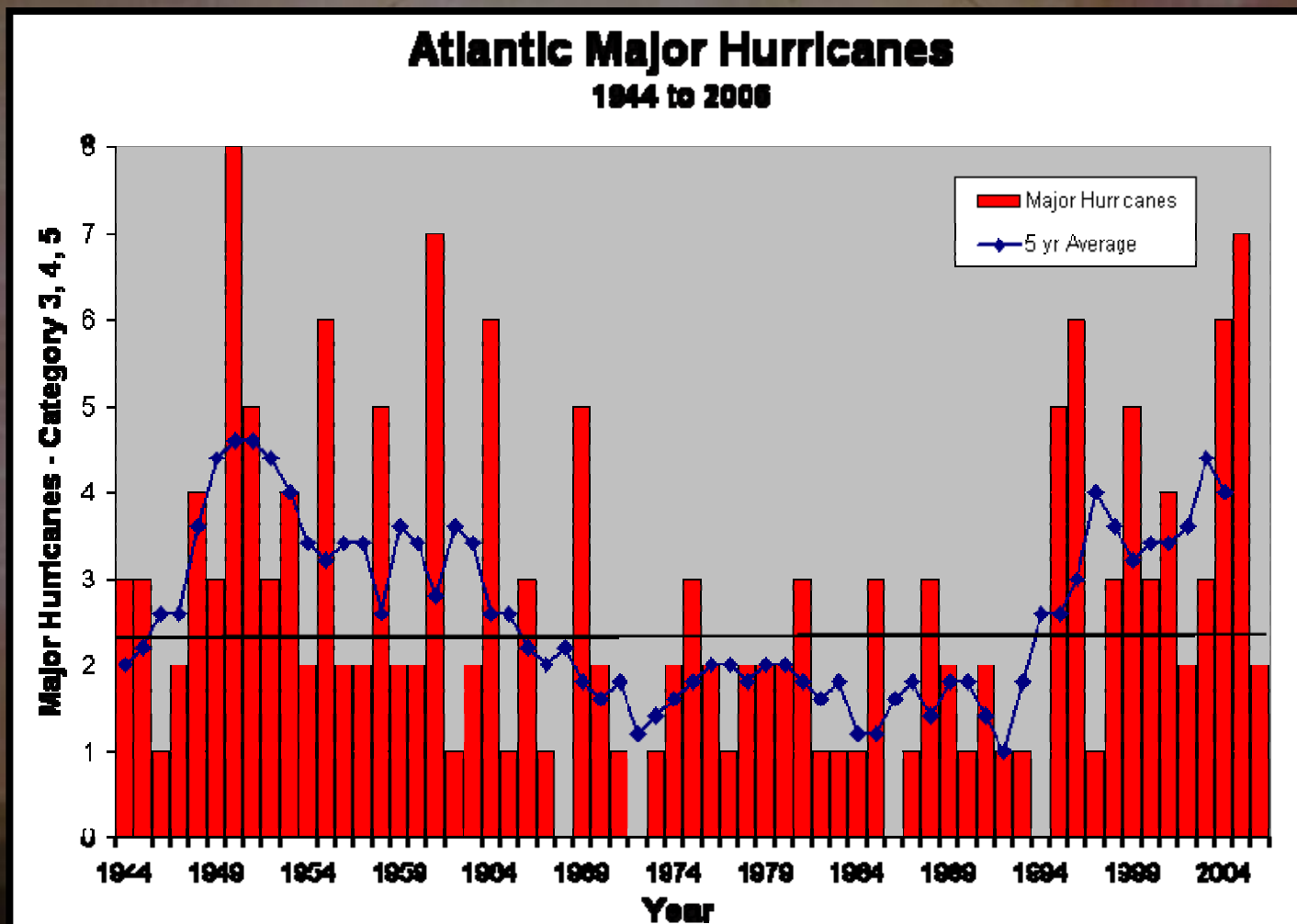
The Nation's Risks: Extreme Climate, Weather, and Water

Billion Dollar Weather Disasters 1980 - 2006





The Nation's Risks: *Extreme Climate, Weather, and Water* *Atlantic Tropical Cyclones since 1886*





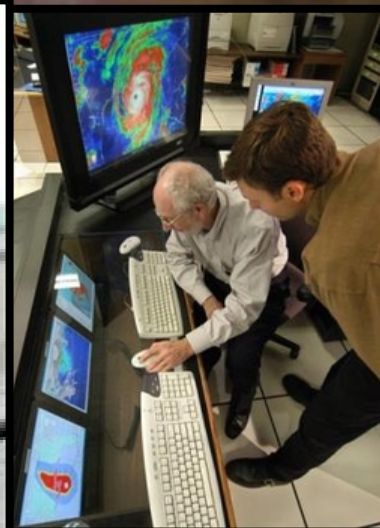
The Nation's Risks: Extreme Climate, Weather, and Water

Hurricane Katrina





The Nation's Risks: *Extreme Climate, Weather, and Water*



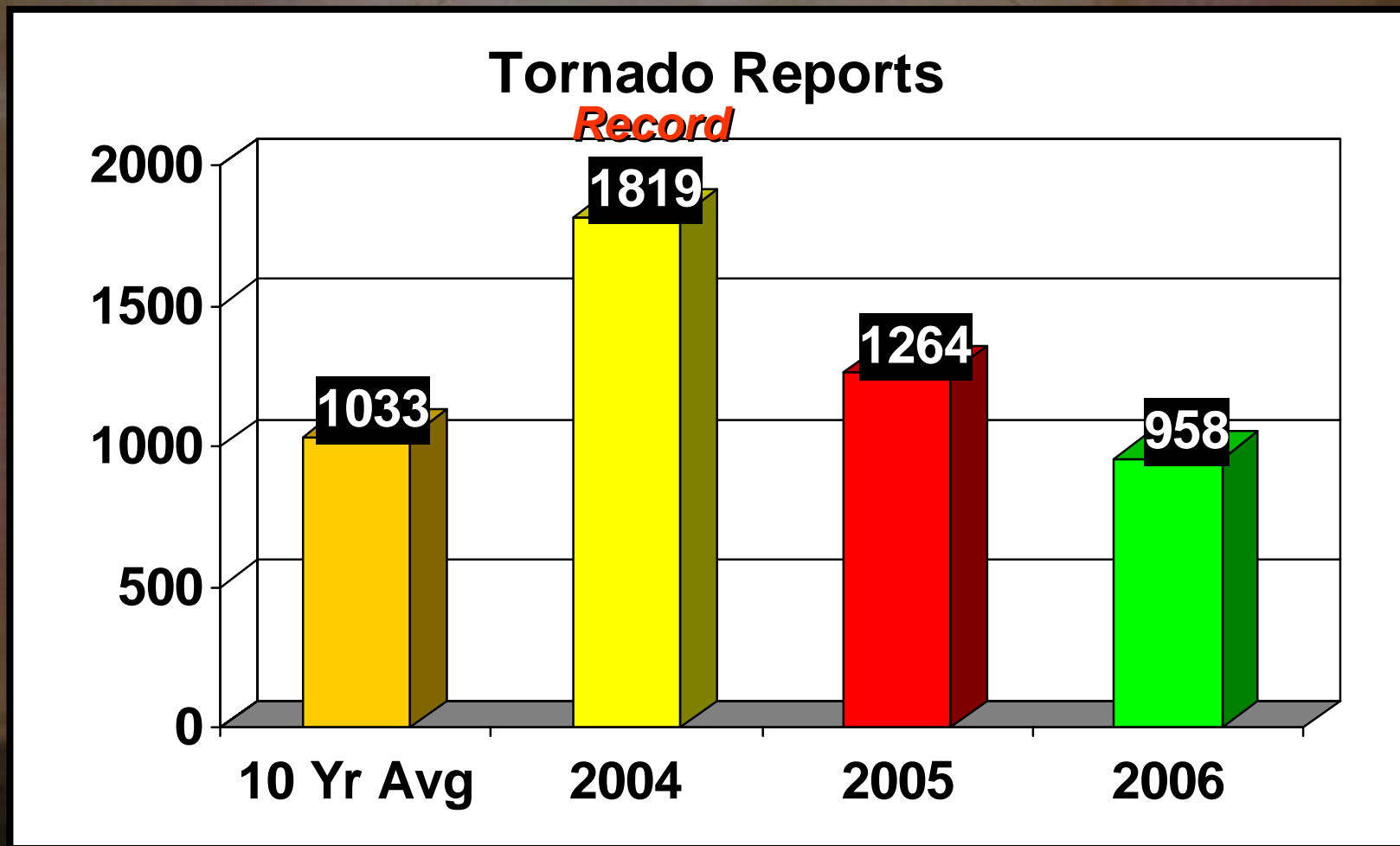
Photos by AP

**Hurricane Katrina
Costly Human and Societal Effects**



The Nation's Risks:

Extreme Climate, Weather, and Water

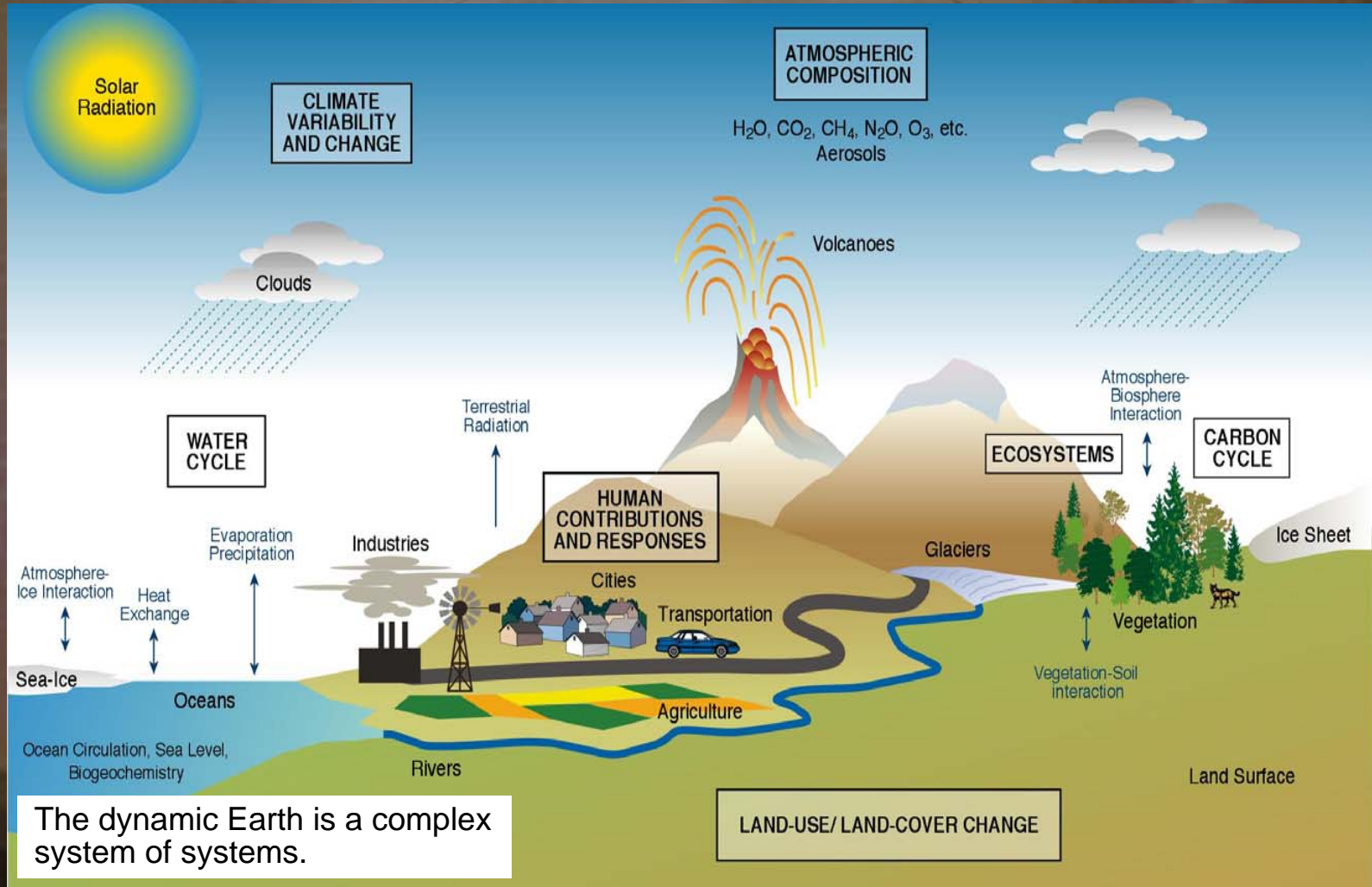




The Future

Action for America

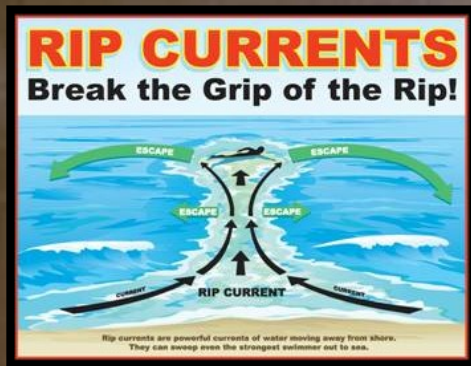
NOAA—Total Environmental Awareness





The Future Action for America

Community Preparedness Campaigns

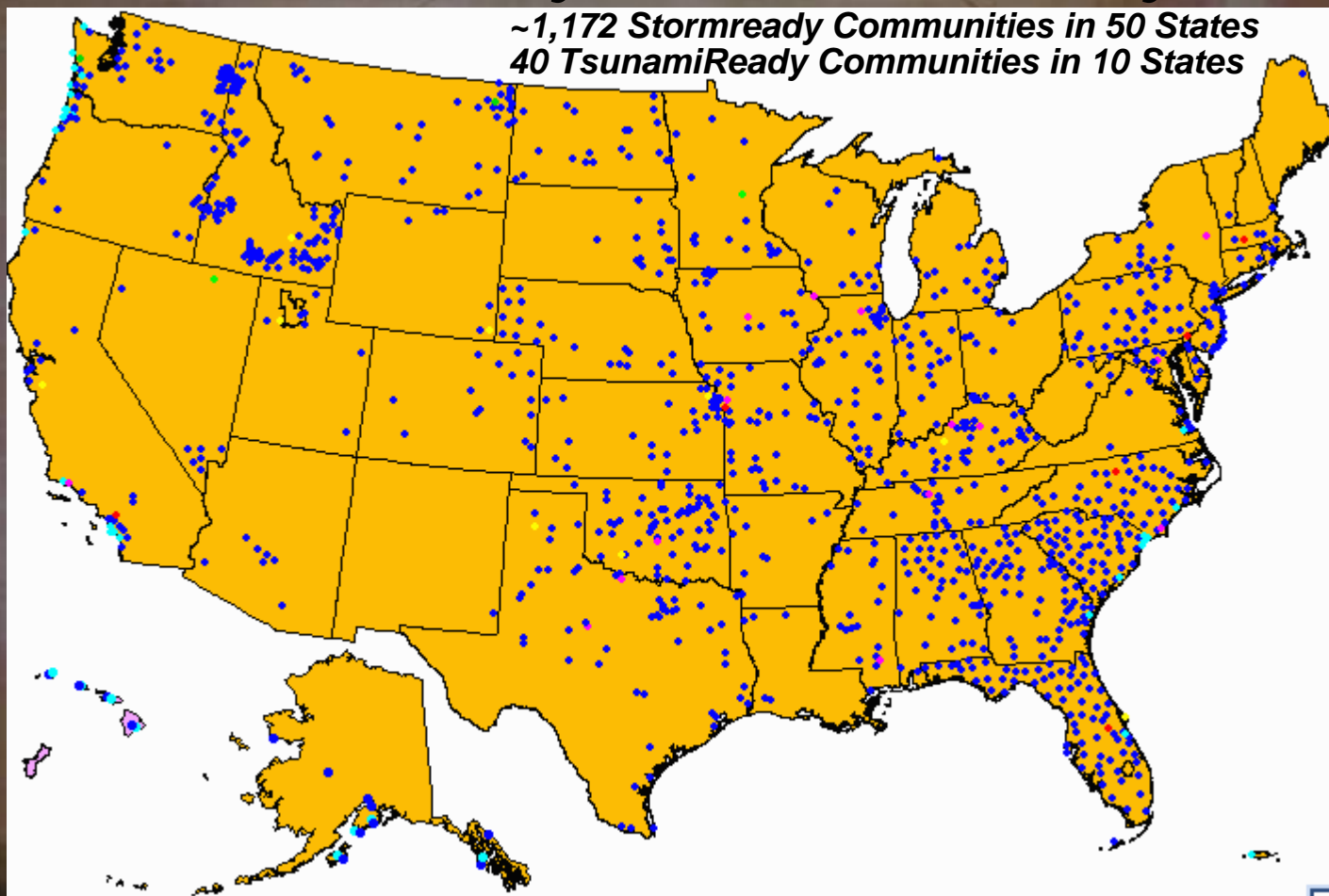




The Future

Action for America

StormReady & TsunamiReady





The Future Action for America

Saving Lives Through Partnerships

NOAA TEAM

PARTNERS

END USERS





NWS and Public Health

A Call for Cooperative Action for America

- **Recognizing Public Health Sector can gain value from weather and climate predictions**
- **Realizing Weather Enterprise potential for public health services**





NWS and Public Health

A Call for Cooperative Action for America

Connecting Public Health and the Weather Enterprise

Public Health Connections

- Direct effects on humans
- Transportation accidents
- Disruption of health infrastructure
- Effects through changes in incidence of diseases (vector-, water-borne, and otherwise)
- Effects through safety and nutritional value of food supplies
- Improved medical treatment

Weather Enterprise Examples

- Temperature, Weather hazards, Wildfire, Solar, Ocean Conditions, Air Quality, Driving Safety, Climate
- “Bad” weather, Ocean Conditions, Floods, Climate
- “Bad” weather, Floods, Solar, Climate
- Marine and Coastal Ecosystems, Air Quality, Floods and droughts, Weather, Climate
- Marine and Coastal Ecosystems, Floods and droughts, Climate
- Pharmaceuticals and marine natural products



NWS and Public Health

A Call for Cooperative Action for America

Health Messages Broadcast By TV Meteorologists



- **Heat extreme:** Today's high heat means drink plenty of water, take rest breaks while exercising.
- **Good weather:** It's a great day to get out walk the dog.
- **...and much more!**





NWS and Public Health

A Call for Cooperative Action for America

Many Questions Remain Unanswered

- **Who should be responsible for educating the public health sector on weather, water and climate issues?**
- **Who should disseminate it to the health sector?**
- **Who in health sector should take on responsibility of receiving weather education?**
- **Who will be decision makers for response to predictions?**



NWS and Public Health

A Call for Cooperative Action for America

R_x Prescription for Moving Forward

- **New Partners:** *We share many parallels in goals, culture, and methods.*
- **Public Health Role:** *Take advantage of Weather Enterprise capabilities.*
- **Weather Enterprise Role:** *America's Weather Enterprise products should support public health.*



