





National Weather Service

Building a Weather-Ready Nation

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2011: A Year of Extremes

~600 Fatalities

\$50 Billion in Economic Losses



546 Fatalities from 1,784 Tornadoes



Historic U.S. Floods



Pacific Tsunami

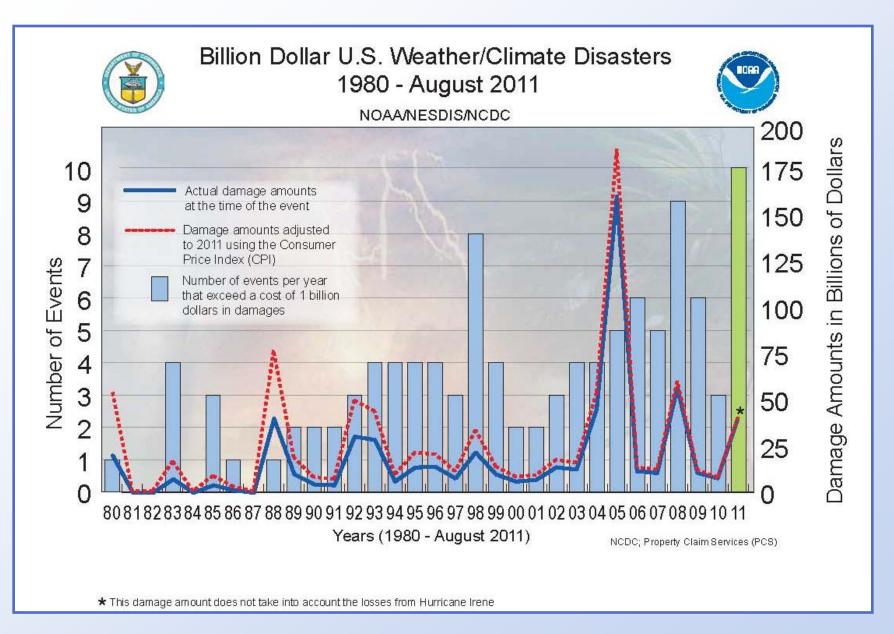


6 Million Acres Burned



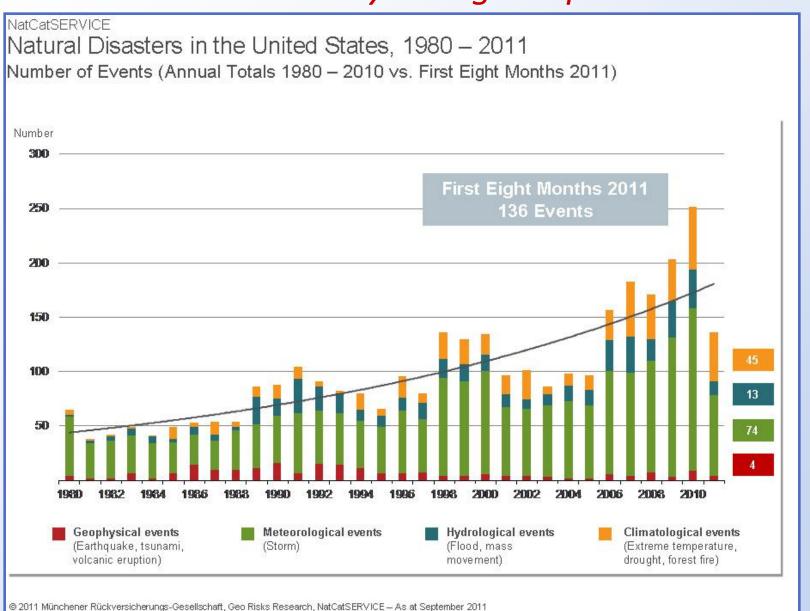
Devastating Blizzards

2011: A Year of Extremes



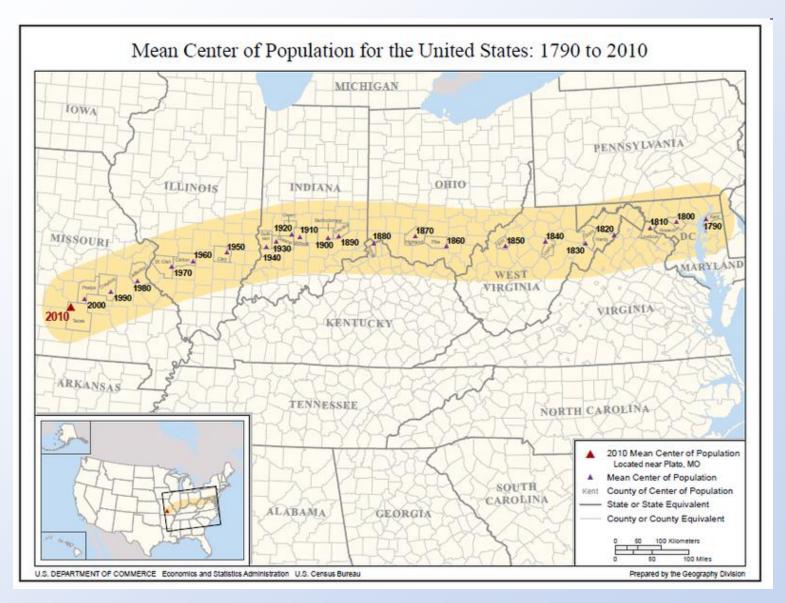
A Changing World

Increased Vulnerability to High-Impact Weather



Vulnerability: Population Distribution

Westward Move



A Changing World

Weather Impacts on Sectors:

Air Travel Flight Delays

\$40 Billion Yearly Cost to U.S.

Weather Responsible for

2/3 Delays



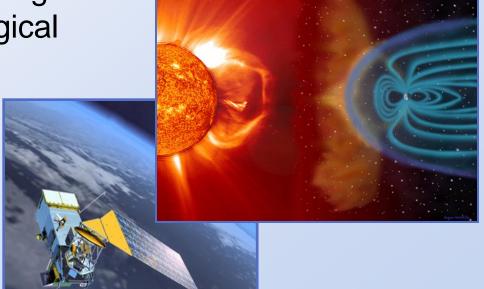
A Changing World

Weather Impacts on Sectors: Technological Dependence

 Threat: Space Weather impacts critical infrastructure and national security (power grids, communications, air travel, satellites)

Expect vulnerabilities to grow with growing technological advances

 Next solar maximum expected in 2013



Improved forecasts

- Have improved hurricane tracking and lead times for tornadoes, flash floods
- Have improved seasonal predictions El Niño and La Niña Patterns
 - Midwest spring flood outlooks
 - Texas drought

Improving our Capabilities

- Computer modeling
- Scientific research
- Environmental observations, including weather satellites
- Our people –providing forecasts, warnings, and decision assistance

Managing Water

- Threat: Too much, Too little, Poor Quality
- Goals:
 - Improve Nation's ability to manage water resources
 - Reduce economic losses due to floods and droughts
 - Increase economic benefits from water forecasts and information
- What we're doing
 - Core Partnerships
 - Spring flood outlooks enabled communities to prepare
 - FEMA and Red Cross pre-positioned relief assets





NWS Contributions



National Dialogue

- We can accomplish more through partnerships
- Weather-Ready Nation Requires Involvement of Entire Society



Building a Weather Ready Nation What You Can Do

- Establish strong weather-information presence in your organization
- Join National Dialogue and educate employees about weather
- Help us to save lives and protect livelihoods