

U.S. Climate Change Science Program (CCSP)

*“Climate Extremes – Documentation of current extremes
and future projections”*

CCSP Synthesis and Assessment Product 3.3

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CCSP 3.3 – Climate Extremes *Outline*

- ***Overview of CCSP Product 3.3***
- ***Milestones***
- ***Proposed Report Organization***

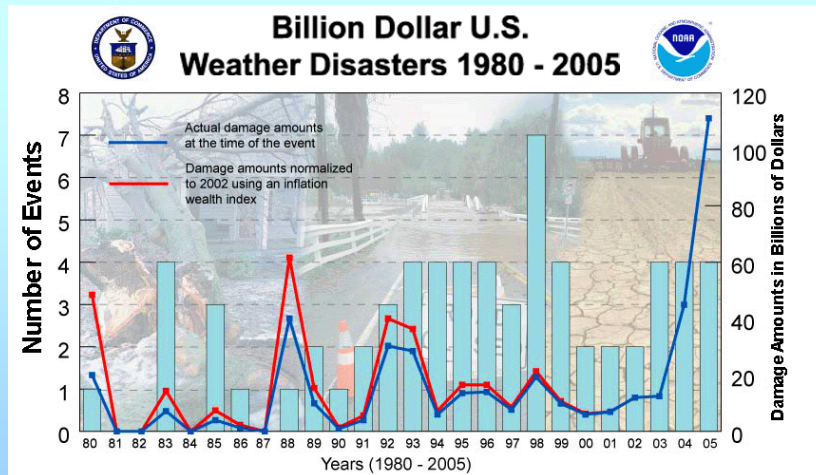
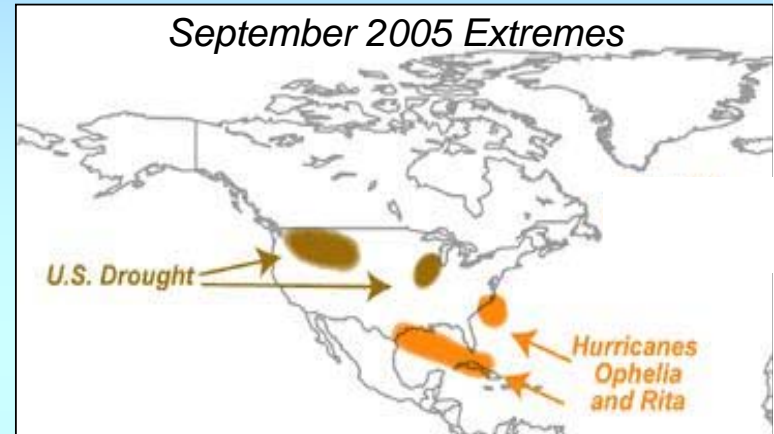


Climate Extremes

Overview of CCSP Product 3.3

Focus:

- Climate/Weather extremes that have significant societal impact
 - Examples: cold / heat spells, tropical / extra-tropical storms, pluvials, droughts
- Assessment of observed changes & future projections in frequency, intensity, & duration of extremes



- **Regions of Focus- North America, Caribbean, Hawaii & U.S. Pacific Is.**

- **Author team nominees drawn from Canada, Mexico and the U.S.**

- **Linkage to GEO possible.**



CCSP 3.3 – Climate Extremes

Milestones

Task Name	FY05				FY06				FY07			
	1	2	3	4	1	2	3	4	1	2	3	4
Product Scoping: Conducted Expert Users Workshop to Frame Issues (complete July 05)	■											
Prospectus: Prepare Prospectus for CCSP Review			■									
Develop Assessment						■						
Product Reviews & Revisions									■			
CCSP Product 3.3 release												■



CCSP 3.3 – Climate Extremes

Proposed Report Organization

Abstract and Executive Summary (5 pages)

Chapter 1 --- Why extremes matter (15 pages)

Chapter 2 --- Observed changes of weather and climate extremes and related impacts (30 pages)

Chapter 3 --- Can we understand the causes of observed changes in extremes and what are the projected future changes? (30 pages)

Glossary/Acronyms



CCSP 3.3 – Climate Extremes

Proposed Report Organization (Cont.)

Chapter Subsections

- 1.1 - Why are extremes important?**
- 1.2 - How do we define extremes?**
- 1.3 - How do we determine extremes?**

- 2.1 - What are the temporal & spatial scales of available data & their utility in resolving extremes?**
- 2.2 - Can the data be used to detect decadal to century scale changes?**
- 2.3 - What do the weather and climate data show?**
- 2.4 - What are the social, economic, and environmental impacts of these extremes?**

- 3.1 - What are the physical mechanisms of observed changes in extremes?**
- 3.2 - Detection and attribution of observed changes to external forcing**
- 3.3 - Projected future changes in extremes, their causes, mechanisms, and uncertainties**



CCSP 3.3 – Climate Extremes

**For further information on
CCSP Synthesis and Assessment Products**

<http://www.climatescience.gov/>

