

Natural Disaster Reduction

Grand Challenges from the National Science
& Technology Council's Subcommittee on
Natural Disaster Reduction

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NSTC SDNR Grand Challenges

June 2005 Report

- Grand Challenge #1—Provide hazard and disaster information where and when it is needed.
- Grand Challenge #2—Understand the natural processes that produce hazards.
- Grand Challenge #3—Develop hazard mitigation strategies and technologies.
- Grand Challenge #4—Recognize and reduce vulnerability of interdependent critical infrastructure.
- Grand Challenge #5—Assess disaster resilience using standard methods.
- Grand Challenge #6—Promote risk-wise behavior.

Typical US Natural Hazards

June 2005 Report

- Drought
- Hurricanes
- Tsunamis
- Floods
- Tornadoes
- Earthquake
- Wildfire
- Volcano
- Technological – e.g., chemical spills
- Public Health/
Environmental
- Severe Weather – extreme heat
- Severe Weather – Ice Storm/Freezing
- Landslides/Sinkholes

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“The United States loses about \$1B
per week from natural hazards”