



# Overview of Hurricane Activities at The National Academies

## NSF-NSB Workshop on Hurricane Science and Engineering

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<http://www.nationalacademies.org/basc/>

# The National Academies

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- Serve as independent advisors to the Nation on science, engineering, and medicine.
- Origins in 1863 under President Lincoln; NRC founded in 1916 as the working arm of the NAS.
- Unique strengths of our studies:



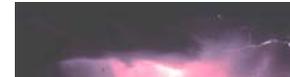
- Stature of Academies' memberships
- Ability to get the very best to serve
- “Pro bono” nature of committee service
- Special relationship to the government
- Independence, scientific objectivity, balance



# Past Work Related to Hurricanes

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- **Drawing Louisiana's New Map: Addressing Land Loss in Coastal Louisiana (OSB, 2006)**
- **Lessons Learned Between Hurricanes: From Hugo to Charley, Frances, Ivan and Jeanne (Disasters Roundtable, March 8, 2005)**
- **Environmental Public Health Impacts of Disasters: Hurricane Katrina (IOM, October 20, 2005)**
- **Assessment of the Benefits of Extending the Tropical Rainfall Measuring Mission (BASC, 2004)**
- **Communicating Uncertainties in Weather and Climate Information: A Workshop Report (BASC, 2003)**
- **10-year effort to guide modernization of the National Weather Service**
- **Assorted efforts to help develop observation technologies and prediction methods**



# Current and Potential Future Work

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- **November 14-15, 2005 “meeting of experts” “Strengthening Scientific and Technical Responses to Hurricane Katrina”**
- **Committee to Review New Orleans Regional Hurricane Projects**
- **Committee on Estimating and Communicating Uncertainty in Weather and Climate Information**
- **Workshop on Disaster and Hazard Research in the Social Sciences**
- **Committee on Mitigating Shore Erosion Along Sheltered Coasts**
- **Workshop on Rebuilding for Health, Sustainability, and Disaster Preparedness for the Gulf Coast (in planning)**
- **Hurricanes and Climate Change (under discussion)**
- **Hurricane Forecasting: Progress, Challenges and Opportunities (under discussion)**



# In Summary

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- Many different parts of the National Academies have conducted and are moving ahead with a variety of work related to hurricane science and engineering.
- Our November 14-15, 2005 workshop set the stage for future work but we do not have an organized program.
- This area is ripe for research of many types, although always with an eye toward communication, coordination and effectiveness.



# Contact Information

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