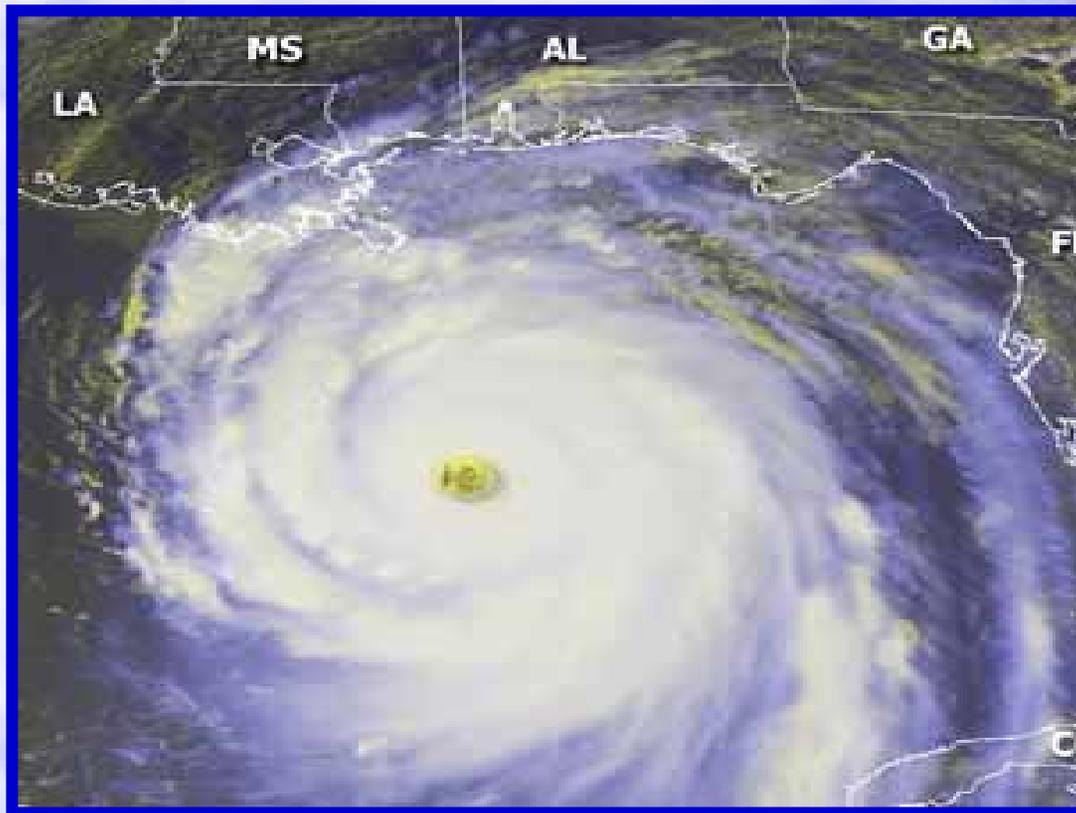


# 60th INTERDEPARTMENTAL HURRICANE CONFERENCE

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***“Hurricane Season 2006: Building on the  
Historic 2005 Season”***  
**March 20 - 24, 2006**

# **60th INTERDEPARTMENTAL HURRICANE CONFERENCE**

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## **Tropical Cyclone Research: Priorities for the Next Decade**

Moderator: Dr. Robert Serafin

# Tropical Cyclone Research: Priorities for the Next Decade

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- Planning activities are encouraging
  - Interagency Joint Action Group
  - National Science Board
  - NOAA Science Advisory Board WG

# Tropical Cyclone Research: Priorities for the Next Decade

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- Priorities established by JAG very good
  - Intensity/Structure
  - Track
  - Landfall Impacts
  - Socio-economic

# Tropical Cyclone Research: Priorities for the Next Decade

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- Plans are not comprehensive
  - Tactical, short-range, specific event-driven
  - Not strategic

# Tropical Cyclone Research: Priorities for the Next Decade

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- End-to-End research program needs
  - Seasonal forecasting
  - Climatology/Variability of TC intensity and frequency at annual, inter-annual, longer time scales
  - Causes of variability
  - Stochastic component
  - Climate change influences

# Tropical Cyclone Research: Priorities for the Next Decade

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- National emphasis on mitigation
  - Event specific
  - Long-range planning
  - Mitigation need: impact simulation combining
    - Coupled atmosphere/ocean models
    - Storm surge models
    - GIS Technologies
    - Identify impacts at all vulnerable regions/areas e.g. schools, hospitals, nursing homes, airports, harbors, etc.

# Tropical Cyclone Research: Priorities for the Next Decade

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- Agencies should:
  - Coordinate
  - Collaborate
  - Cooperate
  - Commit for decade-long research effort

# Tropical Cyclone Research: Priorities for the Next Decade

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- Immediate need:
  - Greater emphasis on data assimilation
    - Especially for Joint Hurricane Test bed
      - Human infrastructure Issue
        - » Dearth of data assimilation people