

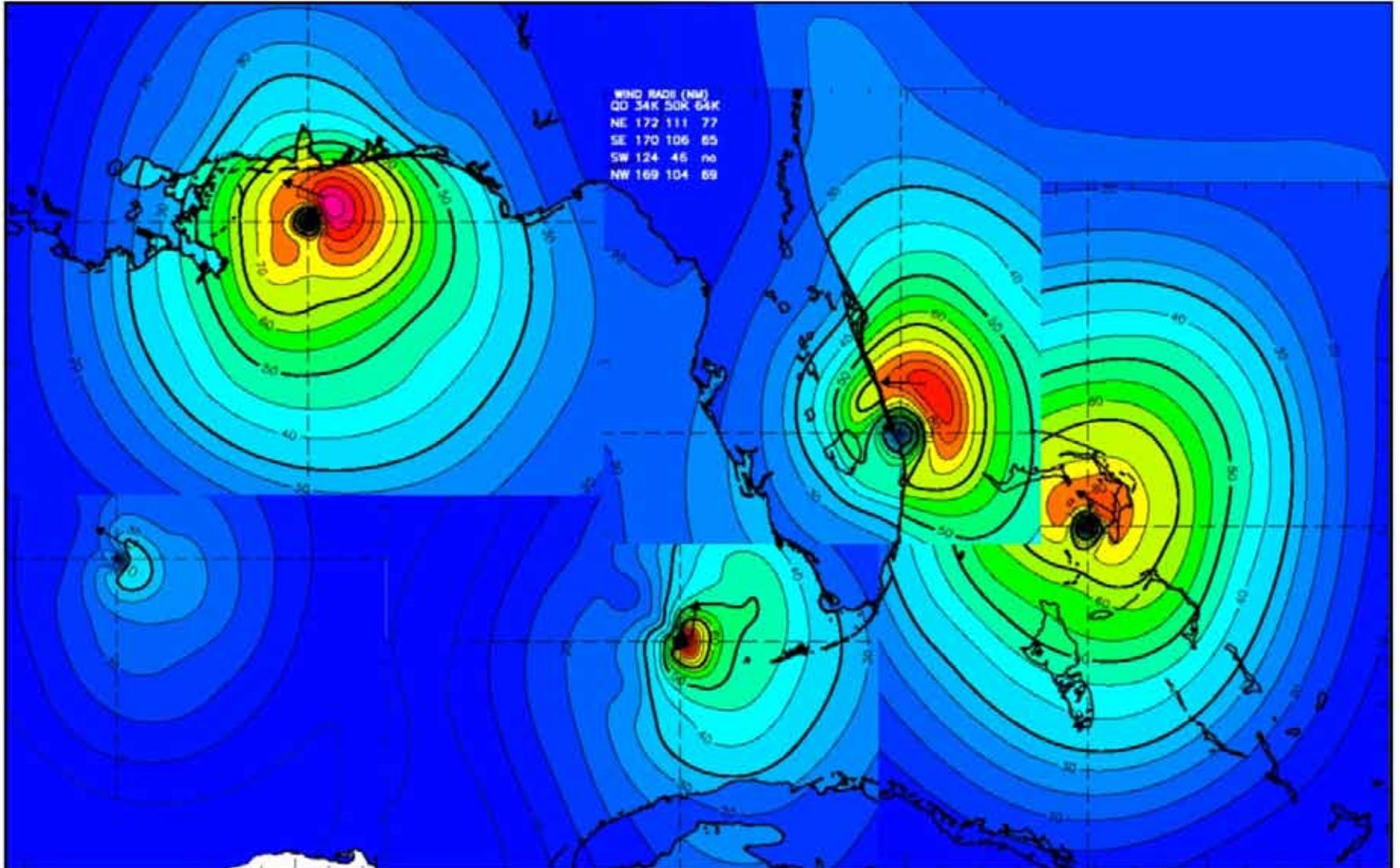
# Preliminary Recommendations and The Way Ahead

Plan focuses on 4 main research goals:

1. Improve forecasts of tropical cyclone **intensity/structure**
2. Improve tropical cyclone **track** forecasts
3. Improve forecasts of **impacts** at landfall from wind, surge, waves, severe weather and rain
4. Improve understanding of **economic and social impacts** of tropical cyclones and associated forecasts and warnings

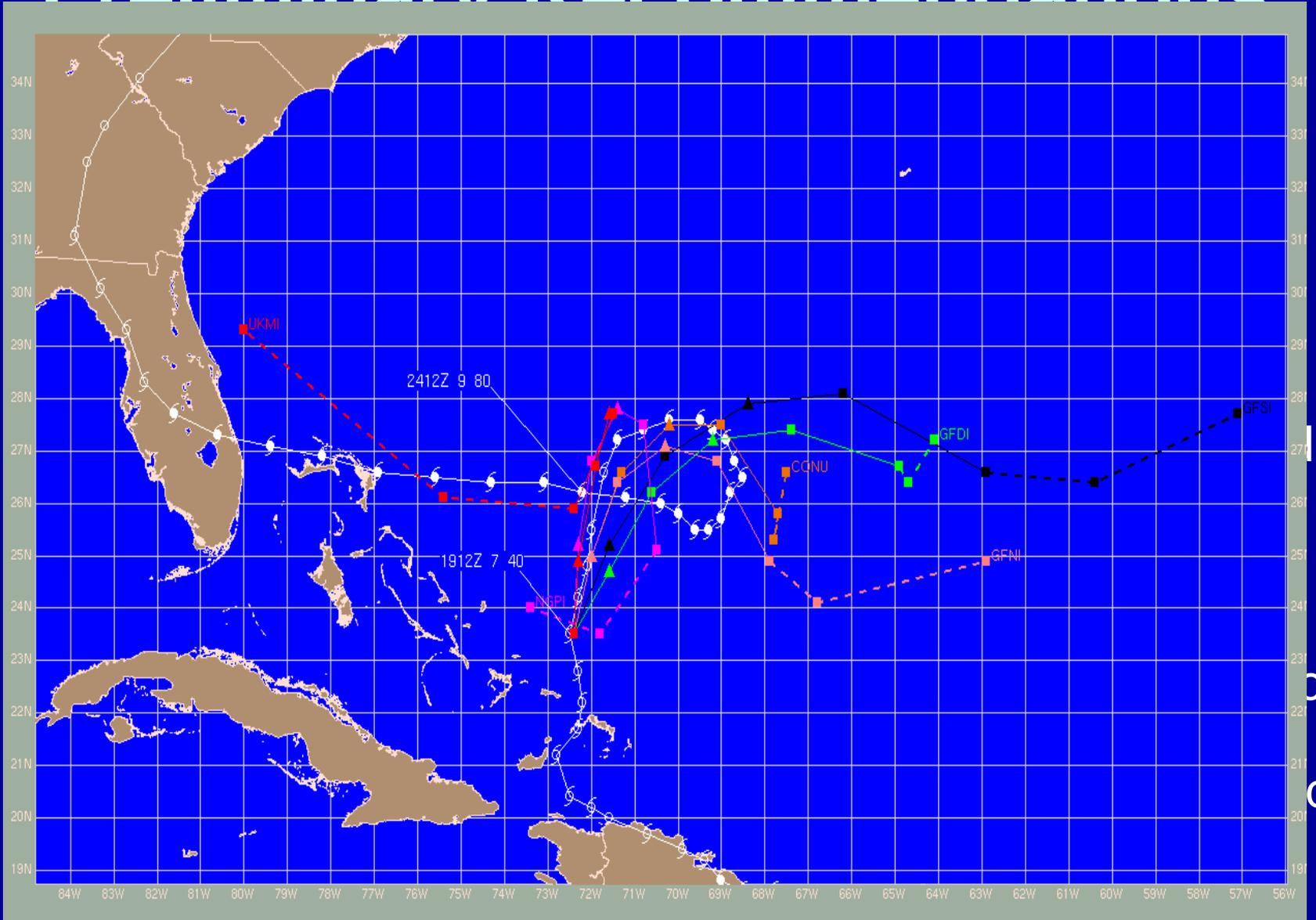
# TS Bonnie; Hurricanes Charley, Frances, Ivan, and Jeanne

## August-September 2004



Structure defined here as radii of 54, 50, 64, and radii of maximum wind

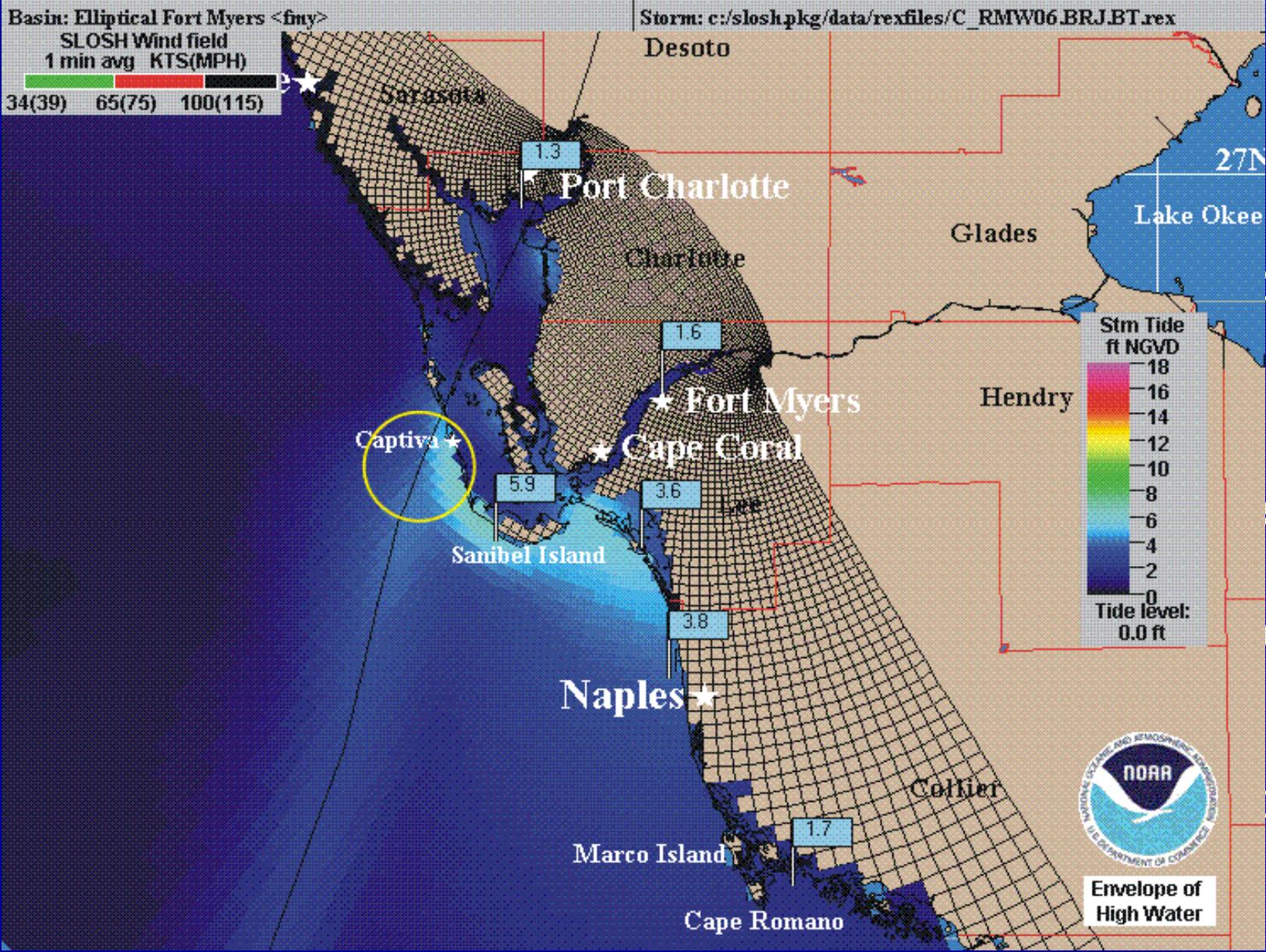
# Preliminary Recommendations



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Speed transfer of research to operations

# Preliminary Designation



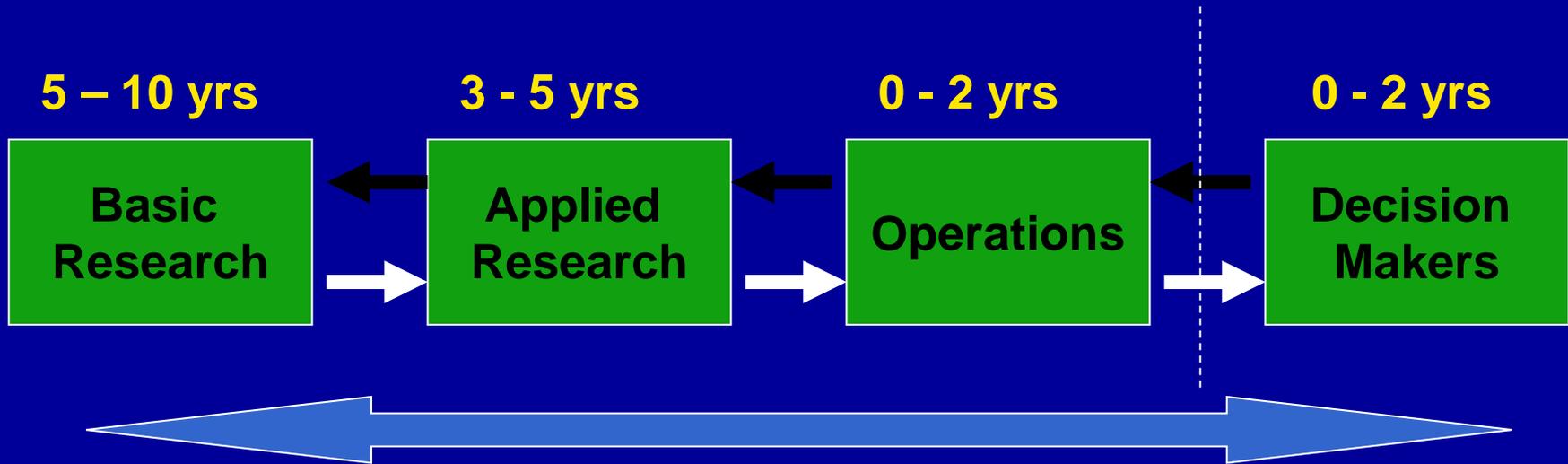
# Preliminary Recommendations and The Way Ahead

- Socio-economic
  - Economic cost-benefit activities priority of NOAA, economic and social impacts priority for all
  - Need research component in social science coordinated with physical science and decision-making communities.
  - Improve understanding of:
    - Economic and social impacts of hurricanes,
    - Costs and benefits of various response strategies,
    - Decision making environment, and
    - Technology infusion process - basic research to societal benefit.
  - Interrelated factors contribute to more effective decision-making reducing society's vulnerability to hurricanes.

# Preliminary Recommendations and The Way Ahead

- Recognized need for research to improve understanding of long-term changes in tropical cyclone behavior
- Priority not as high as other four
- Recommend this activity be charged to climate change community as one of their high priorities

# Preliminary Recommendations and The Way Ahead



- Need to build end to end process to insure success

# Input for Report

- Draft Interagency Strategic Research Plan is available
- Joint Agency Group for Tropical Cyclone Research (JAG/TCR) will seek to finalize Research Plan during next few months
- Comments and input are welcome
- Send comments and input to:  
[Frank.Marks@noaa.gov](mailto:Frank.Marks@noaa.gov) [Mark.Welshinger@noaa.gov](mailto:Mark.Welshinger@noaa.gov)  
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