

## Working Group XII: Risk & Coastal Hazards

### Natural vs. Man-made risk/hazard

Natural events + civil infrastructure + human/social inter-dependent and interconnected complex systems

#### Research Emphasis:

##### ❑ Scientific/Research

- Future risk levels
- SLR via ice sheet
- Changes in extreme events (e.g., hurricane occurrence)
- What are the *scientific* challenges to advancing our understanding of coastal risk
- Emerging statistical methods for extreme characterization
- What do decision-makers need vs. want?
- How large are the error bars?

##### ❑ Practical/Applied

- Uses of coastal risk assessments
- Planning, emergency management, insurance
- Current state of coastal risk assessment methods
- Comprehensive Literature scan/review
- Review article on statistical methods in risk assessment
- Communication of future risk
- Uncertainty
- What do decision-makers need vs. want?
- DHS/FEMA, DOD, DOE

The Statistical and Applied Mathematical Sciences Institute

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