

Coastal Flooding SHAC-F Research Webinar

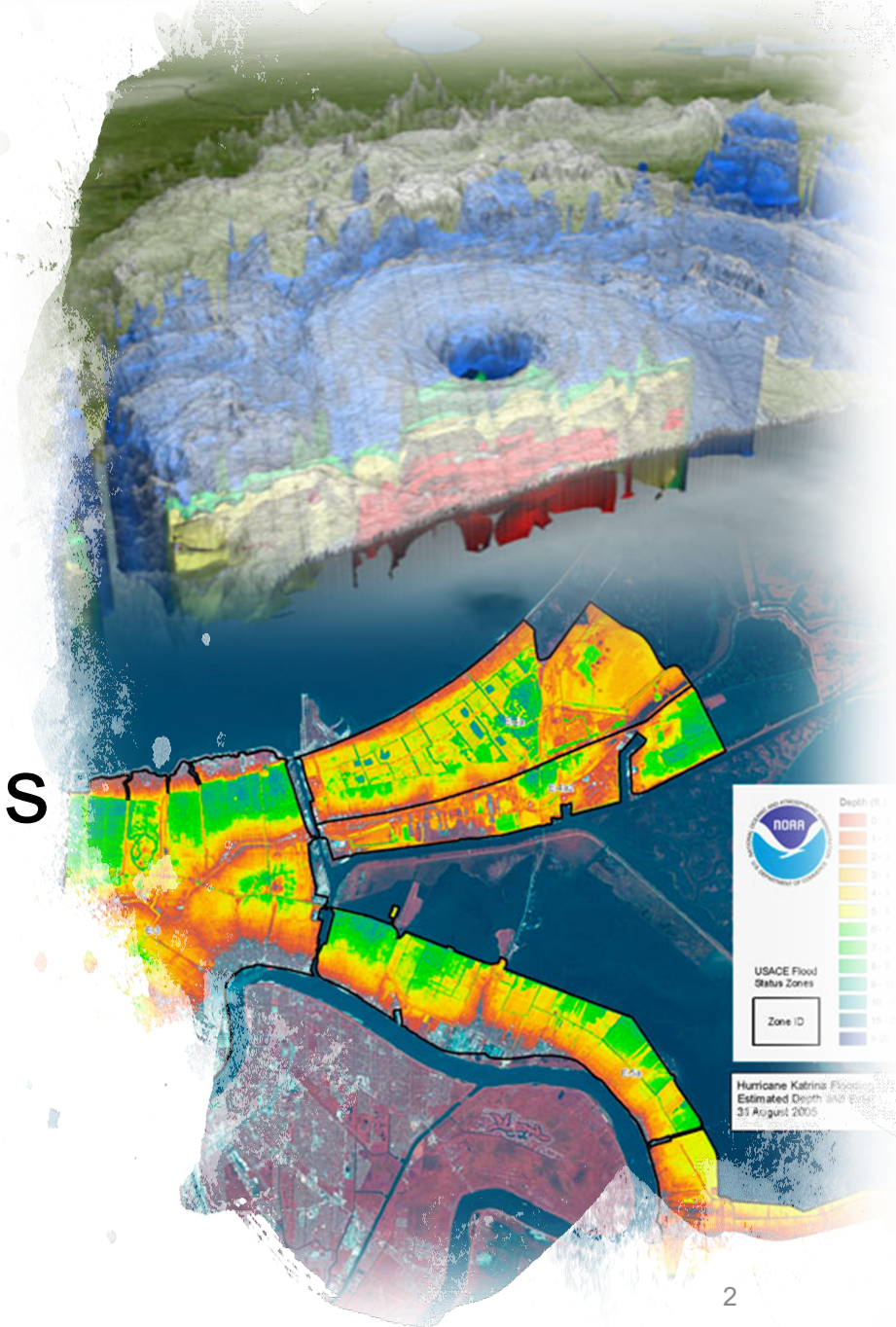
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Outline

- Agenda
- Research Objectives
- Status

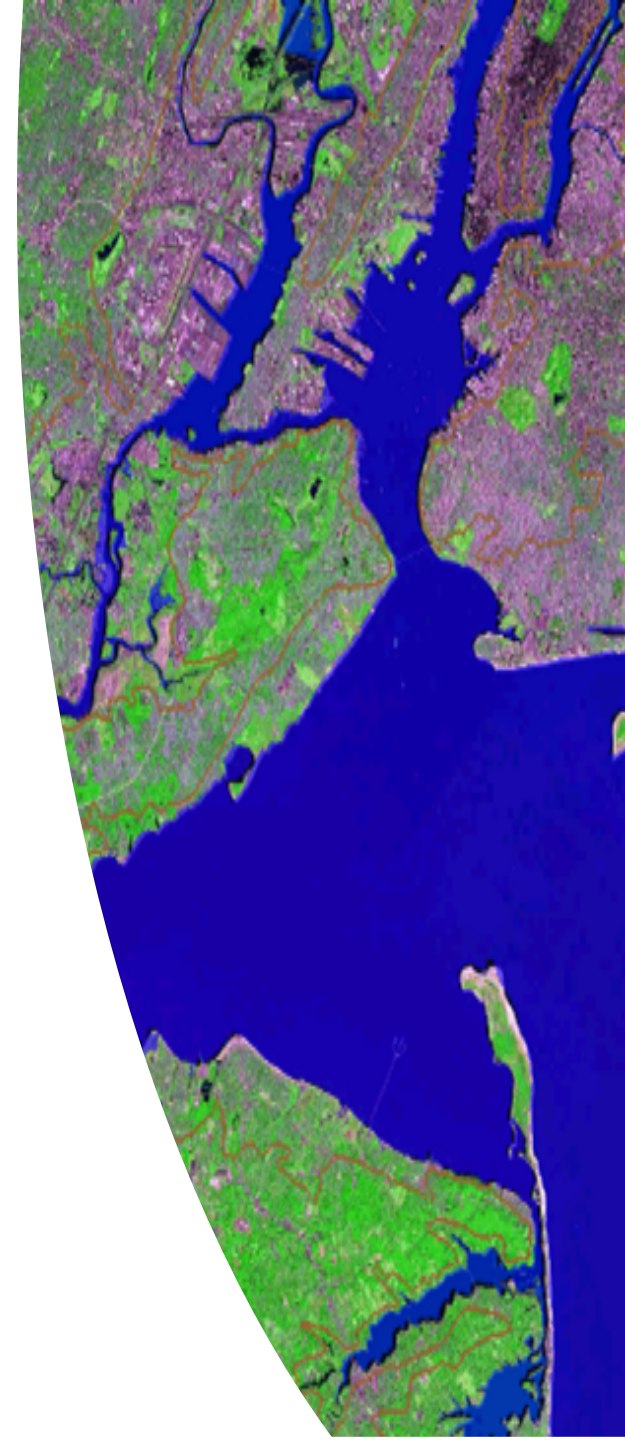


Agenda

Time	Topic	Speaker(s)
1:00 pm	Welcome and Introductions	Joseph Kanney (NRC)
1:15 pm	Overview of Probabilistic Coastal Flooding Hazard Assessment Methods	Norberto Nadal-Caraballo (USACE)
2:00 pm	Q&A	Open
2:15 pm	Overview of the SSHAC Process	Kevin Coppersmith (CCI)
3:00 pm	Break	
3:10 pm	Coastal SHAC-F Description	Norberto Nadal-Caraballo (USACE), Rajiv Prasad (PNNL), Joseph Kanney (NRC)
4:15 pm	Open Discussion	Open
5:00 pm	Adjourn	

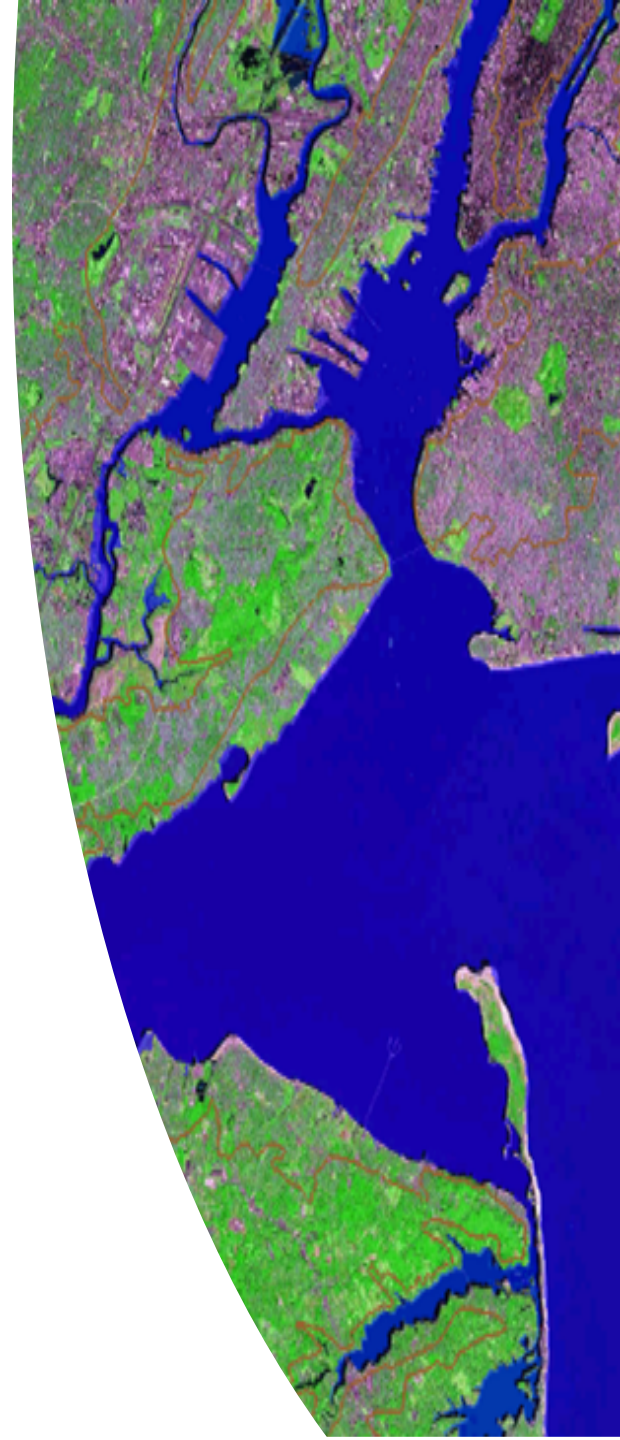
Motivation

- Interest in application of PFHA to NPP flood hazard assessments
 - No consensus framework or standard set of methods for performing PFHA
 - Potentially large uncertainties in estimates for both magnitude and frequency of extreme floods
 - Reliance on professional or expert judgment in several steps of the PFHA
- Current PFHA situation similar to state of probabilistic seismic hazard assessment (PSHA) several decades ago
 - Structured multilevel assessment approach known as the Senior Seismic Hazard Analysis Committee (SSHAC) process developed for PSHA
- With suitable modification and adaptations, SSHAC process might be basis PFHA framework
 - ***Structured Hazard Assessment Committee Process for Flooding (SHAC-F)***



Research Objectives

- Develop Structured Hazard Assessment Committee Process for Flooding (SHAC-F)
- Identify technically defensible data sets, models, and interpretations
- Address key areas where expert assessment is required and use of such experts
- Participatory peer review
- Accommodate problems of varying complexity through an appropriate hierarchy of SHAC-F study levels



Research Status

- SHAC-F framework developed for local intense precipitation (LIP) and riverine flooding
 - Presented at several NRC PFHA Research Workshops (RIL-2001)
 - <https://www.nrc.gov/reading-rm/doc-collections/research-info-letters/2020/>
 - NUREG/CR Report in preparation
- SHAC-F framework for coastal flooding in progress
 - Presented at 5th Annual NRC PFHA Research Workshop (Feb 19-21, 2020)
 - Solicit feedback in today's webinar
 - Finalize and publish as a PNNL technical report



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