Lake Michigan Critical Outreach Components
FEMA’s Great Lakes Coastal Flood Study

Laura Kelliher, CFM

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Agenda

• Great Lakes Coastal Flood Study (GLCFS) Overview
• GLCFS Outreach Strategy
• Technical Workshops
• Discovery Meetings
• Demonstration Projects
• Future Engagement Activities
• Challenges
Great Lakes Coastal Flood Study (GLCFS) Overview
Great Lakes Coastal Flood Study (GLCFS) Overview

- GreatLakesFINAL.wmv
Great Lakes Coastal Flood Study (GLCFS)
Lake Michigan Project

- 34 counties in total
  - 4 counties in UP Michigan
  - 11 counties in Wisconsin
  - 2 counties in Illinois
  - 3 counties in Indiana
  - 14 counties in western Michigan
- 226 coastal communities
Great Lakes Outreach Strategy

• Defines key components of the community and stakeholder engagement efforts associated with the GLCFS

• Support acceptance of the products and methodology by the key technical and community stakeholders
Great Lakes Outreach Strategy

- **Core Stakeholders** includes FEMA, FEMA contractors, ASFPM, USACE, cooperating technical partners (CTPs), and State NFIP Coordinators.

- **State & Federal Legislative Stakeholders** is a unique stakeholder group representing its constituents’ interests regarding the GLCFS program.

- **Technical Stakeholders** includes stakeholders with specific expertise in coastal engineering.

- **Community and Property Stakeholders** include the local officials, general public, emergency managers, businesses, economic development, media, and others that will be end-users of the GLCFS products.
Great Lakes Outreach Strategy

• Implementation Team
  – Risk and Issue log
  – Stakeholder Interaction Tracker
  – POC Lists
  – Inquiry Management (media, congressionals, public)
GLCFS website: http://www.greatlakescoast.org
Welcome to GreatLakesCoast.org

Outreach

Current Great Lakes Coastal Flood Study outreach efforts are listed on this page. Use the links in each section below or in the sub-menu on the left to view these Outreach pages:

Fact Sheets

Documents produced to publicize information related to the Great Lakes Coastal Flood Study can be viewed at Fact Sheets.

Newsletters

Quarterly newsletters on FEMA’s comprehensive coastal analysis, flood hazard mapping, and risk assessment and planning assistance for Great Lakes communities are listed at Newsletters.

Presentations

Presentations related to Great Lakes Flood Study are posted to the Presentations page.
Oblique Photo Viewer
http://greatlakes.usace.army.mil
Oblique Photo Viewer
http://greatlakes.usace.army.mil
Topography & Bathymetry
TECHNICAL WORKSHOPS
Overview of Lake Michigan Technical Workshops

- Total of 7 workshops were conducted for Lake Michigan
  - 3 in Wisconsin
  - 3 in Michigan
  - 1 joint workshop for Illinois and Indiana

Objectives

- Explain the Great Lakes System/Basin wide approach to updating coastal flood hazards studies
  - Lake Michigan Basin Wide Modeling Effort
  - Coastal Modeling to Maps Methodology
FEMA Great Lakes Coastal Guidelines, Appendix D.3 Update

May 2012
Lake Michigan Technical Workshops

Expectations of audience from Technical Workshops

• Learn more about the process
• Be able to explain to constituents
• How this applies to our jurisdiction?
• See how datasets will be useful
• What is LiMWA?
• Federal and State regulations are on same board
• Understand methodology
• Learn about coastal hazards and erosion
• Hear concerns of stakeholders and see how FEMA can address them
Lake Michigan Technical Workshops

Workshop Materials

• Factsheets
  – Great Lakes Coastal Flood Study Program Summary
  – Great Lakes Water levels
  – Great Lakes Program Schedule
  – Great Lakes Storm Surge and Wave Modeling

• Other handouts
  – Technical Resources
  – Cross Walk for Appendix D.3 revisions
  – DVD with Technical Reports and Handouts
DISCOVERY
Discovery Overview

- Storm Surge Study Data Collection and Stakeholder Coordination
- Storm Surge Study
- Stakeholder Coordination
- Data collection and Analysis
- Discovery Meeting and follow up
- Scope Refinement

Added Efforts for Long-Term Coastal Studies

Standard Discovery Efforts
Discovery Meeting Visuals

- **VE Zone**: Wave height ≥ 3.0 ft.
- **Coastal AE Zone**: Wave height between 3.0 and 1.5 ft
- **AE Zone**: Wave height < 1.5 ft

- **1% SWEL level**: Shoreline
- **BFE depth**: Ground profile
- **Stillwater flood depth**

- **FEMA Mitigation Action and Risk MAP Measures**

- **100-Year Wave Crest Elevation (ABFE)**
- **Bottom of Lowest Horizontal Structural Member**
- **Freeboard**
- **Stillwater Elevation**
Discovery Outcomes

- **Explain the Project**
  - Regulatory and non-regulatory products/datasets
  - Analysis, concepts, timelines

- **Encourage Community Participation**
  - Transect Locations
  - Areas of concern and need
  - Data to improve upon products and datasets

- **Introduce Mitigation Action**
  - Mitigation Action Form
  - Action Tracker
  - Mitigation strategies for coastal flood and erosion
DEMONSTRATION PROJECTS (PILOTS)
Demonstration Projects

- Locations for Lake Michigan:
  - Brown County, WI
  - Porter County, IN
  - Berrien County, MI
Demonstration Projects

- Jas or Brian to add?
Future Potential Engagement Activities

- Demonstration Project Workshops
- Great Lakes Mitigation Action Strategy
- Mitigation Workshops
- Workmap Meetings
- GLCFS website updates, newsletters
- Additional Social Media Integration
Challenges

• Consistent and continuous messaging
• Collaboration
• Reaching everyone
• Mitigating local concerns
• Transparency and the unknown
Questions?

- Laura Kelliher, CFM
  KelliherLE@cdmsmith.com