# Appendix B Pre-Discovery Kickoff Meeting

Appendix B-1: Presentation and Meeting Summary for Michigan Counties

Appendix B-2: Presentation and Meeting Summary for Ohio Counties

Appendix B-3: Presentation and Meeting Summary for Pennsylvania Counties Appendix B-1 Presentation and Meeting Summary for Michigan Counties

## 🛞 FEMA

# Lake Erie Discovery Kickoff Meeting – Michigan

Monroe and Wayne Counties

#### April 17, 2012

**RiskMAP** 

Great Lakes Coastal Flood Study





· Michigan - Department of Environmental Quality

े Great Lakes (२२ – Coastal Flood Study

Michigan – Homeland Security and Emergency Management Division

S FEMA **Risk Map Program Overview** Purpose of This Meeting Provide an overview of Great Lakes Coastal Flood Study Risk MAP Mapping – Flood hazard and risk Provide an overview of Discovery process identification Review data collected and identify data needs Identify Assessment – Risk assessment tools **Risk Data** Risk Identify path forward for Stakeholder involvement Planning – Hazard mitigation planning Risk MA Transfer Ris OF LIFE & Reduce Rist Risk MAP Vision · Deliver quality data Mitigat Risk · Increase public awareness of flood risk Plan for

Encourage local/regional actions that reduced

**RiskMAP** 

Great Lakes 🖓 🚄 Coastal Flood Study



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# Flood Risk Datasets

- Flood Depth Grids
- **Changes Since Last FIRM** •
- HAZUS
- Potential for pilot projects









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- Solicit input and feedback on local issues and concerns

## Who's Here?

• FEMA RAMPP

 USACE USGS Others

Risk MAP Project Team

State partners and officials

NOAA Coastal Services Center

Michigan Sea Grant



#### Great Lakes Coastal Flood Study Overview

- Current FIRMs are outdated due to the age of data and methodologies – many date to 1970s
- Changes in NFIP policies and methodologies have since occurred, creating the need for an update
- New methods have been developed
  - Includes basin-wide water surface grids and storm sampling, built from continuous record of 50 years of meteorological, water level, and ice field data (1960 - 2010).
  - · Methods will be incorporated into official FEMA guidance
- Study includes entire U.S. Great Lakes coastline

#### RiskMAF

Great Lakes مرجو Coastal Flood Study

#### Great Lakes Coastal Flood Study Project Schedule

#### Methodology Update

- Updated version of Appendix D.3 (FEMA Guidelines and Standards) will be introduced for comment in May 2012
- · Includes changes to run-up computational approach
- Basin-wide wave and storm surge grid modeling is nearing completion for all lakes
  - · Lake Michigan modeling now completed
  - Lake St. Clair and Lake Erie results available by June 2012
  - Lake Superior and Lake Huron results available November 2012
- Program-wide Outreach Strategy document completed in February



#### Great Lakes Coastal Flood Study Project Schedule

SFEMA (State)

🐼 FEMA

- Eleven Technical Workshops are planned in R5 states in 2012
  - 7 meetings along Lake Michigan
  - 1 meeting on Lake St. Clair
  - 3 meetings on Lake Erie
- Flood Study Discovery and Initial Coordination Meetings in 2012
  - Meetings to occur in August/September 2012
  - 14 meetings planned in total for Lake Michigan communities in MI, WI, IL and IN
  - · 8 meetings planned for Lake Erie communities in MI, OH, PA and NY
  - 3 meetings planned for Lake St. Clair

RiskMAP





# Discovery Process Overview

- Discovery is the process of data mining, collection, and analysis with the goal of initiating a flood risk or mitigation project or risk discussions, which includes:
- Data
  - Historical flooding information
  - Existing flood hazard data
  - Mitigation activities and strategies
  - Hazard risk assessments, for example, vulnerable assets
- Collaboration
  - Communities
  - Regional planning entities
  - Non-governmental organizations
  - State agencies
  - Other Federal agencies

Risk MAP

Great Lakes Coastal Flood Study



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Lake Erie Disco	overy		🛞 FE	ÎMA	Lake Erie Discovery Project Schedule
<ul> <li>13 counties</li> <li>126 coastal communities/townships</li> <li>8 Discovery Meetings <ul> <li>1 Discovery Meeting for Monroe and Wayne Counties</li> </ul> </li> </ul>	State Michigan New York Ohio Pennsylvan ia	County Monroe Wayne Chautauqua Erie Ashtabula Cuyahoga Erie Lake Lorain Lucas Ottawa Sandusky Erie	Number of Communities           8           11           9           5           15           11           10           11           8           15           9           9		<ul> <li>Identify Draft Transect Locations – Completed</li> <li>Research available data – In Progress</li> <li>Kickoff Meeting with Core Stakeholders – Today</li> <li>Prepare draft Discovery Maps and Reports – April/May 2012</li> <li>Facilitate Discovery Meetings – Summer 2012</li> <li>Establish inventory of coastal structures based on oblique imagery – July/August 2012</li> <li>Final Discovery Report and Maps – November 2012</li> </ul>
Risk MAP Increasing Resilience Together	t Lakes oastal Fle	o <mark>od Study</mark> greatlakesco	ast.org		Create library of digital data – November 2012      Risk MAP Increasing Resilience Together



#### **Data Collected**

#### 🛞 FEMA

- Topographic Light Detection and Ranging (LiDAR) from USGS
- Bathymetry Data NOAA National Geophysical Data Center
- FIS reports
- CBRS areas
- CRS data
- Dams and levees
- Federal and State disaster information
- Stream Gage Locations

# Additional Data to be Reviewed Stema

- FEMA-approved Hazard Mitigation Plans
- Previous flood hazard studies
- Flood insurance policies and claim information
- Letters of Map Amendment and/or Letters of Map Revision
- Average Annualized Loss (AAL) information
- Census data
- Data from other Federal/State agencies
  - Erosion rates



Great Lakes مر Coastal Flood Study









#### Invitation and Data Questionnaire

- Coastal Flood Study

- Invitations sent 4 weeks prior to meeting
- Data Questionnaire to request:
  - Base Map Data
  - Coastal Data
  - Other Data

**RiskMAP** 

- Historical Flood Data
- Risk Assessment
- Flood Mitigation Information
- Community Plans and Projects

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#### Discovery Meeting – Proposed Agenda

#### Total time: Approximately 2 hours

- Introductions (5 minutes)
- Purpose of Meeting (5 minutes)
- Risk MAP Program Overview (5 minutes)
- Outline Risk MAP Products and Datasets (10 minutes)
- Discovery Process (10 minutes)
- Great Lakes Storm Surge Study Overview (5 minutes)
- New Coastal Concepts (5 minutes)
- Coastal Data (10 minutes)
- Mitigation Planning (10 minutes)
- Risk Communications (10 minutes)
- Discussion Session (30 minutes)
- Wrap-Up (10 minutes)



Great Lakes



#### Discussion

- Local issues and concerns
- State-specific requirements

Great Lakes

Coastal Flood Study

Other

RiskMAF

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## Next Steps

- We will provide:
  - Draft Transect Layouts
  - Community Contact List
  - Summary of Today's Meeting
    - Document discussions and outcomes
  - Action items

#### Work with you to:

- Gather additional data, such as:
  - Locations of coastal structures, areas of recent or proposed development, and beach nourishment or dune restoration projects
- · Verify community contacts to attend Discovery Meeting
- Determine venue location and date for Discovery Meeting (June-August 2012)





Coastal Flood Study



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Project	Great Lakes Coastal Flood Mapping and Outreach for Lake Erie						
Meeting:	State of Michigan, Lo	State of Michigan, Lake Erie Pre-Discovery Kickoff Meeting					
Date:	April 17, 2012	Time:	Time: 2:30 PM – 3:30 PM (Eastern Daylight Time)				
Place:	WebEx and Conferen	and Conference Call					
	Linda Burke	Michigan Department of Environmental Quality					
	Donna Cervelli	Michigan Department of Environmental Quality					
	Roger Denick	nick STARR Regional Support Center 5					
	Melissa Hess	Melissa Hess RAMPP					
	Ken Hinterlong	FEMA Reg	ion V				
	Bo Juza	Accenture					
Darticipante	Greg Mausolf	USACE – Detroit District					
Participants:	Chuck Pistis	Chuck Pistis Michigan Sea Grant					
	Jen Read	Michigan Sea Grant					
	Heather Stirratt	NOAA Coastal Services Center, Regional Coastal Services Divis					
	Les Thomas	Michigan	Department of Environmental Quality				
	Amelia Vincent	RAMPP	RAMPP				
	Mary Weidel	Weidel USACE – Detroit District					
	Jonathan Westcott	FEMA HQ					

#### <u>OVERVIEW</u>

This pre-Discovery kickoff meeting was held with Core stakeholders for the Lake Erie coastal counties of Monroe and Wayne, Michigan to discuss the Lake Erie Discovery Project. The purpose of the meeting was to introduce Core stakeholders to the Discovery process, including identifying Discovery goals and objectives for the Lake Erie coastal communities in the State of Michigan. The following topics were covered:

- Provide an overview of Great Lakes Coastal Flood Study
- Provide an overview of Discovery process
- Review data collected and identify data needs
- Identify path forward for Stakeholder involvement
- Solicit input and feedback on local issues and concerns

#### DISCUSSION SUMMARY

The following is a summary of discussion and questions raised by participants during the course of the kickoff meeting.

- Linda B. asked to review the Technical Stakeholder list to ensure all District Floodplain Engineers are included.
- Les T. commented that adequate lead-time is needed when scheduling the Discovery meetings and sending out invitations, especially during construction season.
- Ken H. noted the unique application of LiMWAs in Michigan, given the linkage with the International



Building Code.

- Linda B. noted that she can provide information on Coastal Zone Management Areas.
- Les T. said one of the toughest things is to get people to attend the meetings. How will we get people to show up for the Discovery meeting so there are better turnouts than there were for previous Map Mod meetings?
  - Ken H. said he was interested in hearing any new ideas to increase participation in the Discovery meetings.
- Linda B. commented that we should be more specific on the data collection forms for the types of data needed from communities.
- Linda B. said that the Wayne County maps went effective February 2, 2012. We should be prepared to answer questions on why the community will be receiving new maps so soon.
  - Ken H. said that we need to set a clear message and coordinate the timing of map updates during the NFIP mapping process.
  - Linda B. added that maps for the coastal areas will be based on better data and that the Rouge River floodplain area should not change. FEMA should also discuss other advantages new to the communities.
- Chuck P. asked if the Great Lakes modeling process accounts for special situations with ice jams, runup, and seiches. In the past, ice has been pushed into homes on Lake Erie and Saginaw Bay on Lake Huron.
  - Ken H. said the methodology covers seiches in the modeling and that ice cover was a component in modeling wave height.
  - Jen R. noted that ice jams are an issue upstream of the Blue Water Bridge on the St. Clair River. Ken H. commented that the connecting channels are not part of the model scope at this time.
- Linda B. said she can provide a list of possible venue locations to RAMPP.
- Ken H. asked if there were any sensitive issues within Wayne and Monroe Counties.
  - Linda B. said that the terrain in Monroe County is lower and flatter than in Wayne County. Wayne County also has a lot of marinas and high value homes, especially on Grosse Ile.
  - Linda B. noted that Estral Beach is not a highly populated area.
  - Jen R. added that Frenchtown and LaSalle Townships have a lot of low income NFIP policy holders, and Luna Pier has a lot of older, vacation homes. Chuck P. added that there are condos near the marina in Luna Pier.
  - Ken H. said that seiches occur in Lake Erie and water levels can change 6 to 8 feet from the west and east.
  - Linda B. and Chuck P. noted that there are several critical facilities in these counties such as the Enrico Fermi Nuclear Power Plant as well as water, sewer, and industrial treatment plants.
    - Ken H. noted that this information would be documented in the Discovery Report.

FOLLOW-UP/ ACTION ITEMS



# **Meeting Summary**

#### Notes

- RAMPP will provide the following to meeting participants:
  - o Draft transect locations for Monroe and Wayne Counties, MI along Lake Erie
  - o Community contact list for Discovery meeting
  - Copy of presentation
- RAMPP will provide the Technical Stakeholder list to Linda B. and Les T. for review.
- Linda B. will provide RAMPP with a list of possible venue locations.

These notes are an interpretation of discussions held. Please provide any additions or corrections to the originator within 5 days of the date signed; otherwise they will be assumed correct as written.

Prepared by: <u>Amelia Vincent</u>

Date: May 11, 2012

cc: Distribution/Participants

Attachments:

Slide Presentation (distributed via email on April 19, 2012) Community Contact List (distributed via email on April 19, 2012)

# Appendix B-2 Presentation and Meeting Summary for Ohio Counties

## 🛞 FEMA Lake Erie Discovery Kickoff Meeting – Óhio

Ashtabula, Cuyahoga, Erie, Lake, Lorain, Lucas, Ottawa and Sandusky

#### April 19, 2012



Great Lakes Coastal Flood Study



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Great Lakes

Car - Coastal Flood Study

## Purpose of This Meeting

- Provide an overview of Great Lakes Coastal Flood Study
- Provide an overview of Discovery process
- Review data collected and identify data needs
- Identify path forward for Stakeholder involvement
- Solicit input and feedback on local issues and concerns

# Risk Map Program Overview

#### Risk MAP

- Mapping Flood hazard and risk identification
- Assessment Risk assessment tools
- Planning Hazard mitigation planning

#### Risk MAP Vision

· Deliver quality data

Who's Here?

State partners and officials

 NOAA Coastal Services Center Ohio Emergency Management Agency · Ohio Department of Natural Resources

Risk MAP Project Team

• FEMA RAMPP

ASFPM

 USACE • USGS Others

Ohio Sea Grant

- · Increase public awareness of flood risk
- Encourage local/regional actions that reduced risk

**RiskMAP** 

Great Lakes 🖓 🚄 Coastal Flood Study





Great Lakes Coastal Flood Study



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# Flood Risk Datasets

- Changes Since Last FIRM
- **Flood Depth Grids** •
- HAZUS
- Potential for pilot projects

RiskMAF







**FEMA** 

Assess Risk

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#### Great Lakes Coastal Flood Study Overview

- Current FIRMs are outdated due to the age of data and methodologies - many date to 1970s
- Changes in NFIP policies and methodologies have since occurred, creating the need for an update
- New methods have been developed
  - Includes basin-wide water surface grids and storm sampling, built from continuous record of 50 years of meteorological, water level, and ice field data (1960 - 2010).
  - · Methods will be incorporated into official FEMA guidance
- Study includes entire U.S. Great Lakes coastline

#### RiskM

Great Lakes - Coastal Flood Study

#### Great Lakes Coastal Flood Study **Project Schedule**

#### Methodology Update

- Updated version of Appendix D.3 (FEMA Guidelines and Standards) will be introduced for comment in May 2012
- · Includes changes to run-up computational approach
- Basin-wide wave and storm surge grid modeling is nearing completion for all lakes
  - · Lake Michigan modeling now completed
  - Lake St. Clair and Lake Erie results available by June 2012
  - Lake Superior and Lake Huron results available November 2012
- Program-wide Outreach Strategy document completed in February



# Great Lakes Coastal Flood Study Project Schedule

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- Eleven Technical Workshops are planned in R5 states in 2012
  - 7 meetings along Lake Michigan
  - 1 meeting on Lake St. Clair
  - · 3 meetings on Lake Erie
- Flood Study Discovery and Initial Coordination Meetings in 2012
  - · Meetings to occur in July September 2012
  - 14 meetings planned in total for Lake Michigan communities in MI, WI, IL and IN
  - · 8 meetings planned for Lake Erie communities in MI, OH, PA and NY
  - 3 meetings planned for Lake St. Clair

Great Lakes 🐨 🚙 Coastal Flood Study



#### FEMA **Discovery Process Overview**

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- Discovery is the process of data mining, collection, and analysis with the goal of initiating a flood risk or mitigation project or risk discussions, which includes:
  - Data
    - Historical flooding information
    - Existing flood hazard data
    - Mitigation activities and strategies
    - Hazard risk assessments, for example, vulnerable assets
  - Collaboration
    - Communities
    - Regional planning entities
    - Non-governmental organizations
    - State agencies
    - Other Federal agencies



Great Lakes Coastal Flood Study





Lake Erie Disco	overy		<b>⊗</b> FI	EMA	Lake Erie Discovery Project Schedule
<ul> <li>13 counties</li> <li>126 coastal communities/townships</li> <li>75 in OH</li> <li>8 Discovery Meetings total</li> <li>5 meetings in OH <ul> <li>Cuyahoga</li> <li>Lorain and Erie</li> <li>Ashtabula and Lake</li> <li>Sandusky and Ottawa</li> <li>Lucas</li> </ul> </li> </ul>	State Michigan New York Ohio Pennsylvan ia	County Monroe Wayne Chautauqua Erie Ashtabula Cuyahoga Erie Lake Lorain Lucas Ottawa Sandusky Erie	Number of Communities 8 11 9 5 5 15 15 11 10 11 10 11 8 8 15 5 5 9		<ul> <li>Identify Draft Transect Locations – Completed</li> <li>Research available data – In Progress</li> <li>Kickoff Meeting with Core Stakeholders – Today</li> <li>Prepare draft Discovery Maps and Reports – April–June 2012</li> <li>Facilitate Discovery Meetings – July–September 2012</li> <li>Establish inventory of coastal structures based on oblique imagery – July/August 2012</li> <li>Final Discovery Report and Maps – November 2012</li> </ul>
Risk MAP Increasing Resilience Together	tt Lakes oastal Fle	o <mark>od Study</mark> greatlakesco	ast.org		Create library of digital data – November 2012      Riskmap Increasing Resilience Together

### Data Collected

- Topographic Light Detection and Ranging (LiDAR) from OSIP
- Bathymetry Data NOAA National Geophysical Data Center
- FIS reports
- CBRS areas
- CRS data
- Dams and levees
- Federal and State disaster information
- Repetitive loss data

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 Coastal Flood Study



**FEMA** 

# Additional Data to be Reviewed

- FEMA-approved Hazard Mitigation Plans
- Flood insurance policies and claim information
- Letters of Map Amendment and/or Letters of Map Revision
- Average Annualized Loss (AAL) information
- Census data

**RiskMAP** 

- Data from other Federal/State agencies
  - Erosion rates





Draft Transect Layout	Draft Transect Layout Ashtabula County
<ul> <li>Methodology:</li> <li>"Published" transects</li> <li>Placed approximately every 1 mile along the shoreline to capture topographic and landuse changes</li> <li>Populated areas may have increased transect density</li> <li>Will appear on the final FIRMs</li> <li>"Mapping" transects</li> <li>Placed at higher density to provide additional model results for mapping process</li> <li>Will not appear on the final FIRM but publicly available as study back-up information</li> </ul>	<ul> <li>39 transects</li> <li>28 miles of shoreline along Lake Erie</li> </ul>
Riskmap Increasing Resilience Together	RiskMAP Increasing Resilience Together









## Discovery Meeting Invitees

- Compiled list of community and county officials, including:
  - Chief Executive Officers (i.e., Mayor, City Clerk)
  - Building, Zoning, and Planning Officials
  - Local Floodplain Administrators
  - City and County Engineers
  - Conservation Districts
- Over 250 contacts in OH for all 8 counties
- Need your help to identify others who should be invited to Discovery Meetings

# RiskMAP





**FEMA** 

# Invitation and Data Questionnaire

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Coastal Flood Study

Great Lakes

- Invitations sent 4 weeks prior to meeting
- Data Questionnaire to request:
- Base Map Data
  Coastal Data
  - Other Data

RiskMAP

- Historical Flood Data
- Risk Assessment
- Flood Mitigation Information
- Community Plans and Projects

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Total time: Approximately 2 hours     Introductions (5 minutes)     Purpose of Meeting (5 minutes)     Risk MAP Program Overview (5 minutes)     Outline Risk MAP Products and Datasets (10 minutes)     Discovery Process (10 minutes)     Great Lakes Storm Surge Study Overview (5 minutes)     May Construct of minutes)	Discovery Report le, comprehensive report for all petings des background information data analysis, meeting agenda.
New Coastal Concepts (5 minutes)     Coastal Data (10 minutes)     Mitigation Planning (10 minutes)     Risk Communications (10 minutes)     Discussion Session (30 minutes)     Wrap-Up (10 minutes)     Outco	bin sheets, discussion topics, sions made, etc.       Discovery Maps     Discovery Report       ding feedback from participants     Remarked Name Remarked Name       al representation of meeting ones     Meeting
RiskMAP Increasing Resilience Together	AP Together Coastal Flood Study greatlakescoast.org



#### We will provide:

- Draft Transect Layouts
- Community Contact List
- Summary of Today's Meeting
  - Document discussions and outcomesAction items
- Work with you to:
  - Gather additional data, such as:
    - Locations of coastal structures, areas of recent or proposed development, and beach nourishment or dune restoration projects
  - Verify community contacts to attend Discovery Meetings
  - Determine venue locations and dates for Discovery Meetings (July-September 2012)
  - Select agency representatives to attend Discovery Meetings

Risk MAP

Great Lakes



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### Contacts



## 🎯 FEMA

Ken Hinterlong ken.hinterlong@fema.dhs.gov

Melissa Hess melissa.hess@urs.com

Amelia Vincent amelia.vincent@urs.com



Great Lakes





Project Name:	Great Lakes Coastal Flood Mapping and Outreach for Lake Erie Task Order HSFE05-11-J-0113						
Meeting:	State of Ohio, Lake Erie Pre-Discovery Kickoff Meeting						
Date:	April 19, 2012	Time:	2:30 PM – 3:30 PM (Eastern Daylight Time)				
Place:	WebEx and Conference Call						
	Dick Bartz	USGS O	hio Water Science Center				
	Deborah Beck	ODNR C	Office of Coastal Management				
	Tim Beck	ODNR D	ODNR Division of Soil and Water Resources – Floodplain				
Steve Ferryman		Manage	Management				
		Ohio En	Ohio Emergency Management Agency				
	Tory A. Gabriel	Ohio Se	a Grant				
Mike Hanke		FEMA R	egion V				
Melissa Hess		RAMPP					
Ken Hinterlong		FEMA R	egion V				
Participants: <i>Benjamin Kelley</i>		ODNR E	Division of Soil and Water Resources – Floodplain				
		Manage	Management				
Frank R. Lichtkoppler		Ohio Se	Ohio Sea Grant				
Joe Lucente Katherine Skalak		Ohio Sea Grant					
		ODNR Division of Soil and Water Resources – Floodplain					
		Manage	Management				
	Alicia Silverio	ODNR E	ODNR Division of Soil and Water Resources – Floodplain				
		Manage	Management				
	Heather Stirratt	NOAA C	Coastal Services Center, Regional Coastal Services Division				
	Amelia Vincent RAMPP						

#### <u>OVERVIEW</u>

This pre-Discovery kickoff meeting was held with Core stakeholders in the State of Ohio for the Lake Erie coastal counties of Ashtabula, Cuyahoga, Erie, Lake, Lorain, Lucas, Ottawa and Sandusky to discuss the Lake Erie Discovery Project. The purpose of the meeting was to introduce Core stakeholders to the Discovery process, including identifying Discovery goals and objectives for the Lake Erie coastal communities in the State of Ohio. The following topics were covered:

- Provide an overview of Great Lakes Coastal Flood Study
- Provide an overview of Discovery process
- Review data collected and identify data needs
- Identify path forward for Stakeholder involvement
- Solicit input and feedback on local issues and concerns

#### DISCUSSION SUMMARY

The following is a summary of discussion and questions raised by participants during the course of the kickoff meeting.

• Steve F. said that the State Hazard Analysis, Resource and Planning Portal website is a resource





for mitigation information. Users are able to view proposed projects for a given area of mitigation interest.

- Ken H. noted that oblique photos have been flown for the Lake Erie shoreline and should be available at the Discovery meetings.
- Ken H. said that we need to be up-front and let the communities know that the plan is to update the maps. He would like local officials to be involved in discussion about mitigation planning.
  - Steve F. said that he would be happy to address those topics on mitigation planning.
- Frank L. commented that there are too many items on the proposed Discovery meeting agenda.
  - Ken H. and Melissa H. said the agenda would be revised as appropriate.
- Frank L. noted that a 500-year riverine flood occurred in 2006. There has also been increased development in Lake County.
  - Ken H. said that this study is only for coastal floodplains.
- Ken H. noted that the modeling included sampled storms and seiche events.
- Steve F. recommended adding County Emergency Management Agency (EMA) Directors to the Discovery contact list. Information should be shared with County EMA Directors prior to the meetings. The EMA Directors can help generate interest in the Discovery Meetings.
- Frank L. asked if any consideration had been given to National Weather Service rip current awareness.
  - Ken H. said that FEMA has not looked at rip current issues although it does influence public safety.
  - Mike H. said that the modeling does look at backwater impacts for the coastal communities. He added that there will be questions about Base Flood Elevation (BFE) changes as a result of the new coastal study. FEMA needs to be able to address why the BFEs are changing.
- Frank L. said that there were record high Lake Erie water levels in the 1980s and record lows in the 1930s. The Lake Erie lake levels can rebound and there needs to be a discussion on the cyclical nature of the Great Lakes at the Discovery meetings. There are short term fluctuations (hours, days) due to storm events; seasonal fluctuations (annual cycle up and down) and long term fluctuations due to changes in precipitation (wet, drought) events.
- Steve F. asked about the lake levels used for the storm surge study.
  - Ken H. said that the storm surge study looked at 150 storms over 50 years of record and include some high water and seiche events. It is imperative that FEMA talks about the use of this data and that a Physical Map Revision (PMR) will be performed for all coastal panels affected by the storm surge study.
- Ken H. said that RAMPP will develop an inventory of erosion control structures and land use as part of the Discovery process.
- Dick B. asked about the International Great Lakes Datum (IGLD) and which datum would be used on the maps.
  - ODNR Permitting Department uses IGLD 1985 for shore structures.
  - Ken H. will check on the IGLD versus NAVD88 conversion.





- Mike H. said that we need to be aware of coastal flood protection structures including levees and USACE temporary structures, and be cognizant that these are sensitive issues.
- Katherine S. said that Ottawa County preliminary maps from February 2011 are on hold because of a levee issue. Also, Discovery was recently done for Cuyahoga County. The local communities may be confused on why we are doing another Discovery project again so soon.
- Mike H. said we need to be prepared to answer questions on how to incorporate the new coastal study and the impact on coastal structures.
- Ken H. suggested the website <u>www.greatlakescoast.org</u> as a resource.
- Ken H. said that a draft map will be available at the meetings to help promote conversations about flood risk and the PMRs.
- Dick B. asked when the storm surge study report would be available. Ken H. said that the report will be published in May 2012.

#### FOLLOW-UP/ ACTION ITEMS

- RAMPP will provide the following to meeting participants:
  - Draft transect locations for Ashtabula, Cuyahoga, Erie, Lake, Lorain, Lucas, Ottawa and Sandusky Counties.
  - o Community contact list for Discovery meeting
  - Copy of presentation
- RAMPP will revise the proposed meeting agenda.
- Ken H. will check on the IGLD versus NAVD88 conversion.

These notes are an interpretation of discussions held. Please provide any additions or corrections to the originator within 5 days of the date signed; otherwise they will be assumed correct as written.

#### Prepared by: <u>Amelia Vincent</u>

Date: <u>May 11, 2012</u>

cc: Distribution/Participants

Attachments:

Slide Presentation (distributed via email on April 19, 2012) Community Contact List (distributed via email on April 19, 2012)

# Appendix B-3 Presentation and Meeting Summary for Pennsylvania Counties

#### **FEMA**

# Lake Erie Discovery Kickoff Meeting Erie County, Pennsylvania

June 13, 2012





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# Great Lakes Coastal Flood Study Project Schedule Eleven Technical Workshops are planned in R5 states in 2012 7 meetings along Lake Michigan 1 meeting on Lake St. Clair 3 meetings on Lake Erie Flood Study Discovery and Initial Coordination Meetings in 2012 Meetings to occur in July - September 2012 14 meetings planned in total for Lake Michigan communities in MI, WI, IL and IN 8 meetings planned for Lake Erie communities in MI, OH, PA, and NY

Coastal Flood Study

3 meetings planned for Lake St. Clair

RiskMAP

🛞 FEMA **Discovery Process Overview** · Discovery is the process of data mining, collection, and analysis with the goal of initiating a flood risk or mitigation project or risk discussions, which includes: Data Historical flooding information Existing flood hazard data Mitigation activities and strategies Hazard risk assessments, for example, vulnerable assets Collaboration Communities Regional planning entities Non-governmental organizations State agencies Other Federal agencies 🔷 Great Lakes 🎧 Coastal Flood Study RiskMAP





Lake Erie Discovery							
	State	County	Number of Communities				
	Michigan	Monroe	8				
		Wayne	11				
12	New York	Chautauqua	9				
13 counties		Erie	9				
126 coastal communities	Ohio	Ashtabula	5				
		Cuyahoga	15				
<ul> <li>9 in Pennsylvania</li> </ul>		Erie	11				
8 Discovery Meetings total		Lake	10				
- o biscovery meetings total		Lorain	11				
<ul> <li>1 meeting in Pennsylvania</li> </ul>		Lucas	8				
		Ottawa	15				
		Sandusky	5				
	Pennsylvania	Erie	9				
Risk MAP	ut Lakes oastal Flo	od Study	100				

# Lake Erie Discovery Project Schedule Identify Draft Transect Locations - Completed Research available data - In Progress Kickoff Meeting with Core Stakeholders - Today Prepare draft Discovery Maps and Reports - June 2012 Facilitate Discovery Meetings - July-September 2012 Establish inventory of coastal structures based on oblique imagery - July-August 2012 Final Discovery Report and Maps - November 2012 Create library of digital data - November 2012



# EXAMPLE A Collected EXAMPL





















