



FEMA

Lake Erie Watershed Discovery Meeting

May 19-20, 2014

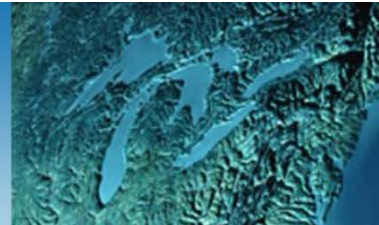
RiskMAP

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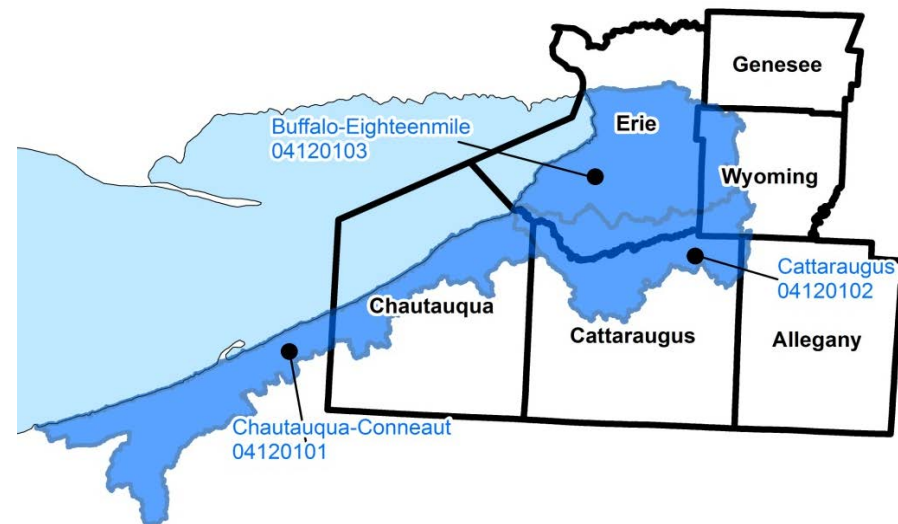
Who's Involved

■ Project Team

- FEMA
- RAMPP

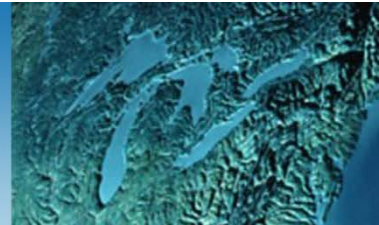
■ Federal, State and Local Partners

- NOAA Coastal Services Center
- USACE
- USGS
- NYSDEC
- Local and Regional Agencies



Purpose of This Meeting

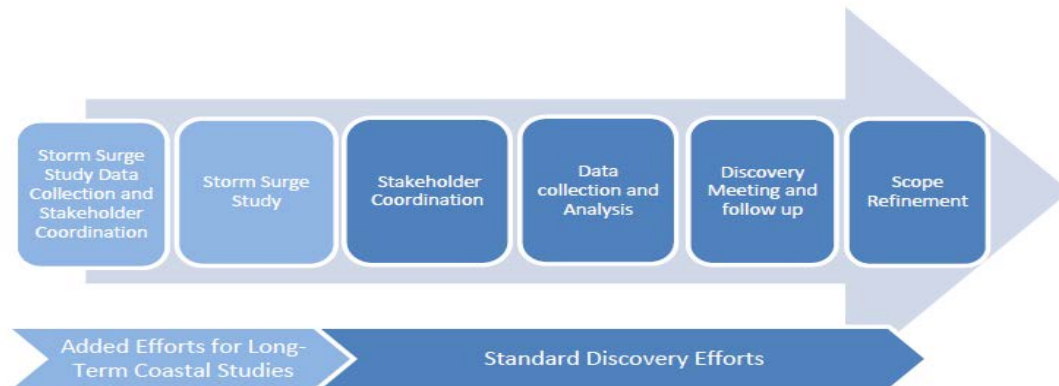
- Provide an overview of the Project to date and schedule
- Overview of the ongoing Coastal Study
- Solicit input and feedback on local issues and concerns
- Identify path forward for Stakeholder involvement



Discovery Process Overview

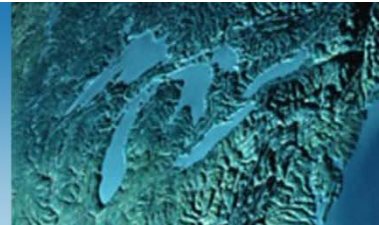
Discovery is a collaborative process for data collection and analysis with the goal of initiating flood risk discussion:

- Data and Projects
 - Historical flooding information
 - Existing flood hazard data
 - Areas of significant bluff erosion
 - Mitigation activities and strategies
 - Hazard risk assessments, for example, vulnerable assets
- Collaboration
 - Communities
 - Regional planning entities
 - Non-governmental organizations
 - State agencies
 - Other Federal agencies



Discovery and Flood Mapping

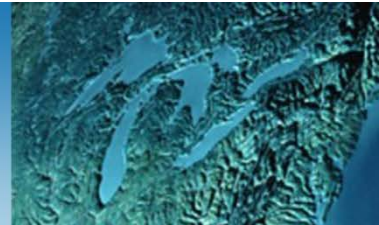
- **Discovery helps inform whether a Risk MAP project will occur in the watershed**
 - Specific areas are prioritized based on flood hazard study needs and available funding
 - Within watersheds studied, not all streams and communities will receive new studies or maps
- **All Risk MAP communities will receive updated flood risk assessments, but not necessarily new regulatory products**



Discovery Results and Products

- **Final Discovery Reports by Watershed**
 - Comprehensive report for documenting discovery process
 - Includes background information and data analysis, meeting agenda, sign-in sheets, discussion topics, decisions made, etc.

- **Final Discovery Maps**
 - Includes feedback from participants
 - Visual representation of meeting outcomes



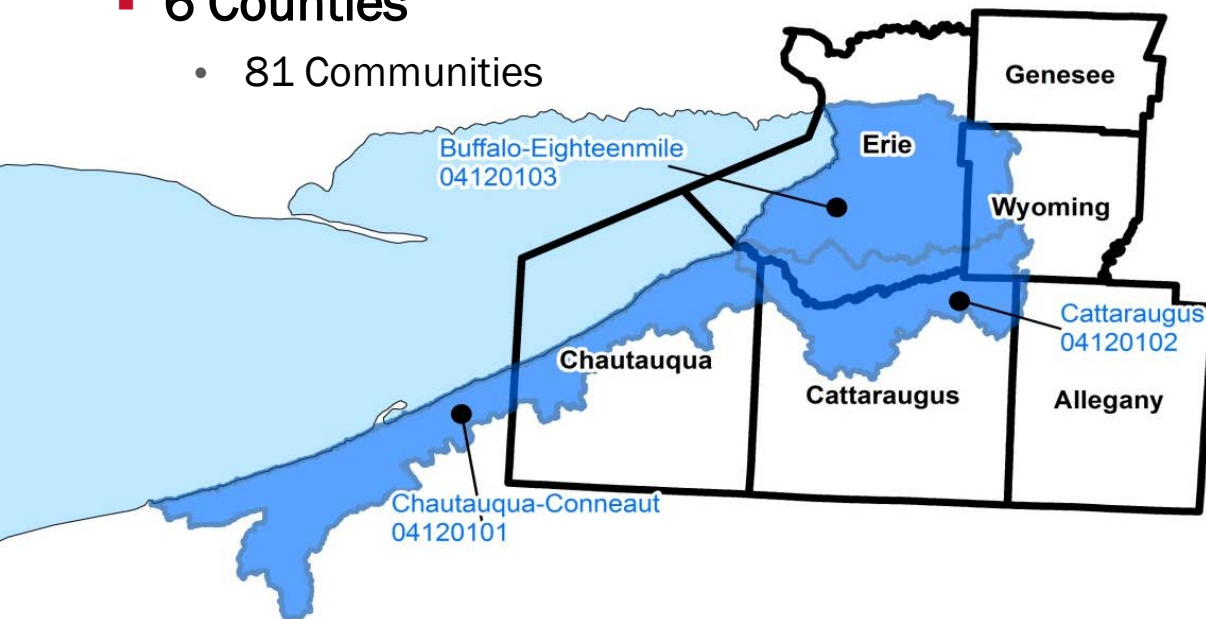
Study Area

3 Watersheds

- Buffalo-Eighteen mile
- Cattaraugus
- Chautauqua-Conneaut

6 Counties

- 81 Communities



County	Effective FIRM Date
Allegany	1983
Cattaraugus	Ranges 1982- 2008
Chautauqua	Ranges 1981 - 2003
Erie	Ranges 1976 -2008 Partial Countywide
Genesee	7/6/1984
Wyoming	Ranges 1982 - 1992



Great Lakes Coastal Flood Study: Overview

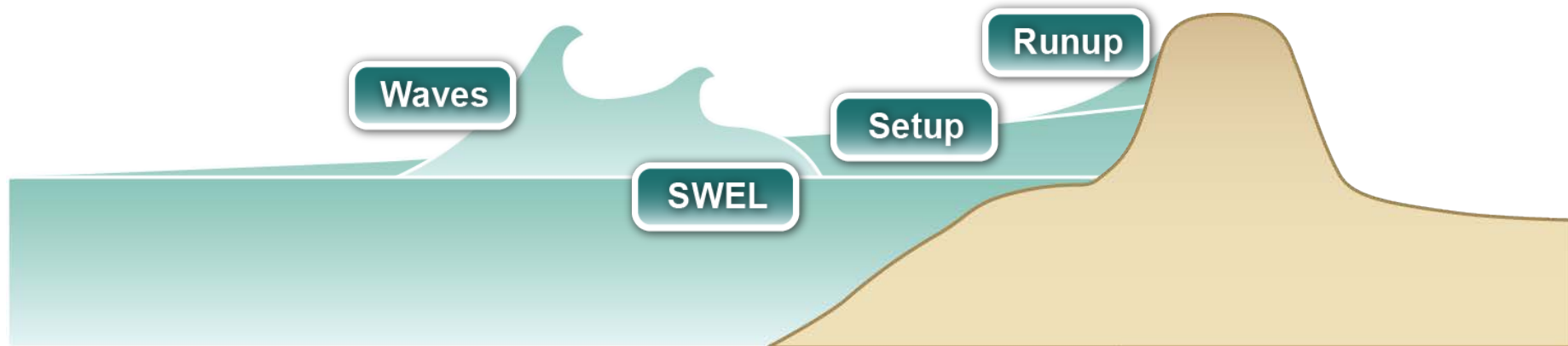
- Current FIRMs outdated due to the age of data & methodologies – many date to 1970s
- Changes in NFIP policies and methodologies have since occurred, creating need for an update
- New methods have been developed
 - Includes basin-wide water surface grids and storm sampling, built from continuous record of 50 years of meteorological, water level, and ice field data (1960 - 2010)
 - Methods will be incorporated into official FEMA guidance – Appendix D.3
 - Demonstration projects were conducted in several lakes to test and improve new methodology described in FEMA guidance
- Study will include entire U.S. Great Lakes coastline



Findings: Changing BFEs

Base Flood Elevation on FIRM now includes 4 components:

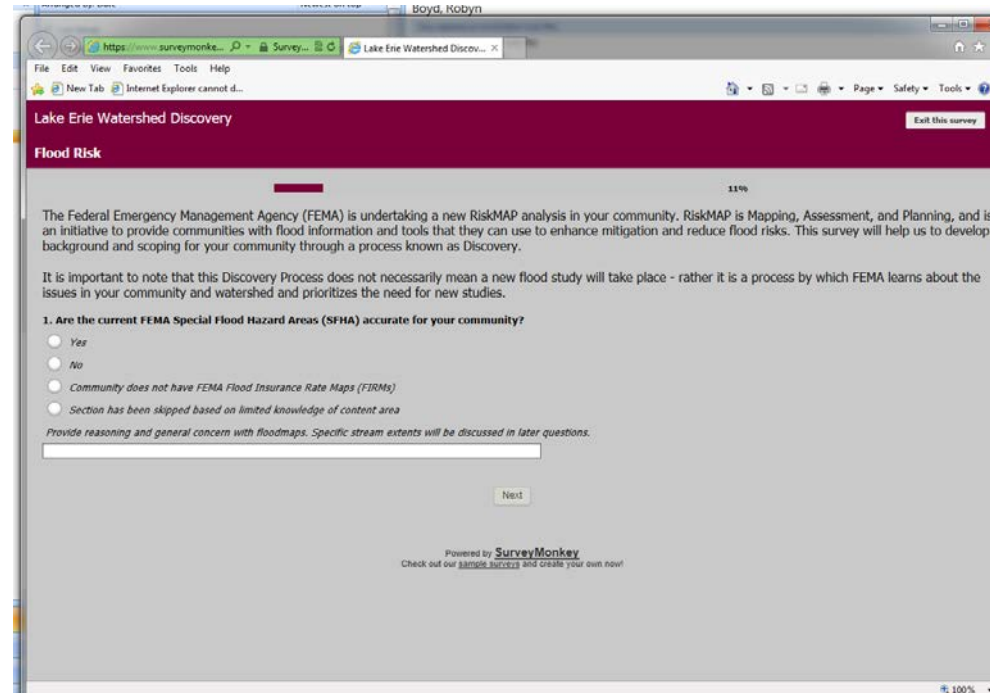
1. Wave height above storm surge (stillwater) elevation
2. Storm surge stillwater elevation (SWEL)
3. Amount of wave setup
4. Wave runup above storm surge elevation (where present)



Local Data Survey

- Local knowledge request via Online Survey

- *Base Map Data*
 - *Topography/Bathymetry*
 - *Imagery*
- *Coastal Data*
- *Other Data*
- *Historical Flood Data*
- *Risk Assessment*
- *Flood Mitigation Information*
- *Community Plans and Projects*



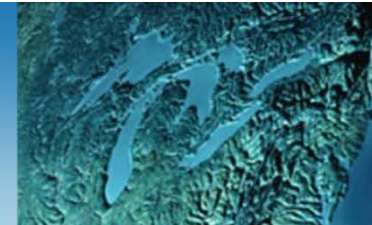
<https://www.surveymonkey.com/s/LakeErieDiscovery>

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Discovery Meeting Invitees

- **Compiled list of community and county officials, including:**
 - Chief Executive Officers (i.e., Mayor, Supervisor)
 - Building, Zoning, and Planning Officials
 - Local Floodplain Administrators
 - City and County Engineers
 - Conservation Districts

- **Need your help to identify others who should be invited to Discovery Meetings**
 - Watershed Associations
 - Others

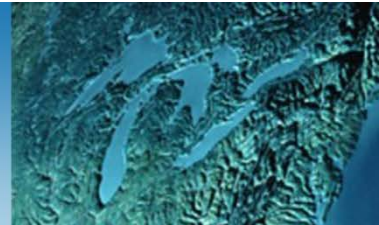


Floodplain Mapping Needs

- **Coordinated Needs Management Strategy (CNMS)**

- **Interactive Mapping**
 - Areas within your community where the FEMA FIRMs are not accurate
 - Significant changes have impacted maps (ie. culvert replacement)

 - Flooding problem spots not currently shown on FEMA maps



Interactive Mapping

- Launch ArcMap

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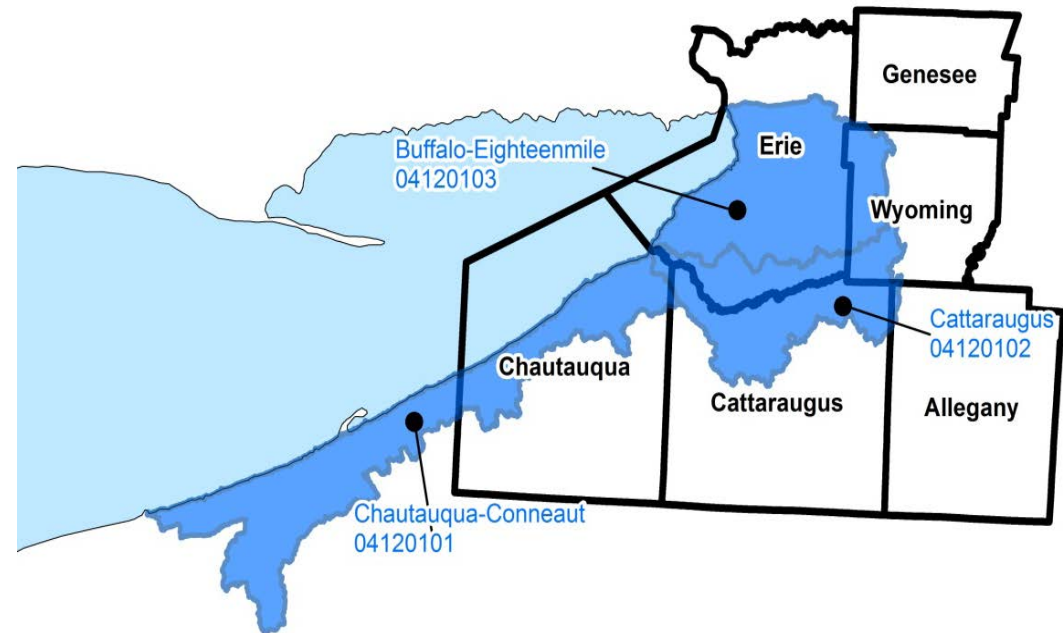


Project Schedule

- Today
 - Web-Ex

- In person Meetings
 - June 2014

- Final Discovery Report and Maps
 - December 2014



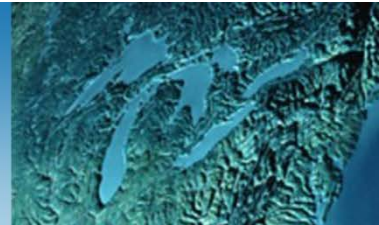
Next Steps

- **We will provide:**

- Summary of Today's Meeting
 - Document discussions and outcomes
 - Action items

- **Work with you to:**

- Complete the local data survey
- Verify and identify community contacts to attend Discovery Meetings
- Determine locations and dates for Discovery Meetings





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Questions?

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