



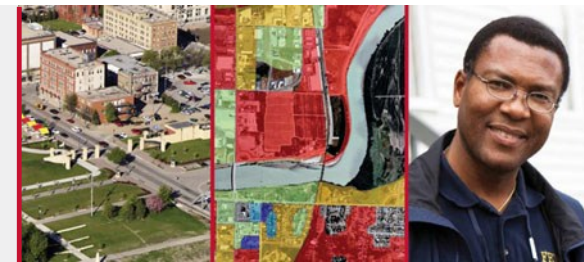
# Miami-Dade County, Florida

## Public Information Committee Meeting

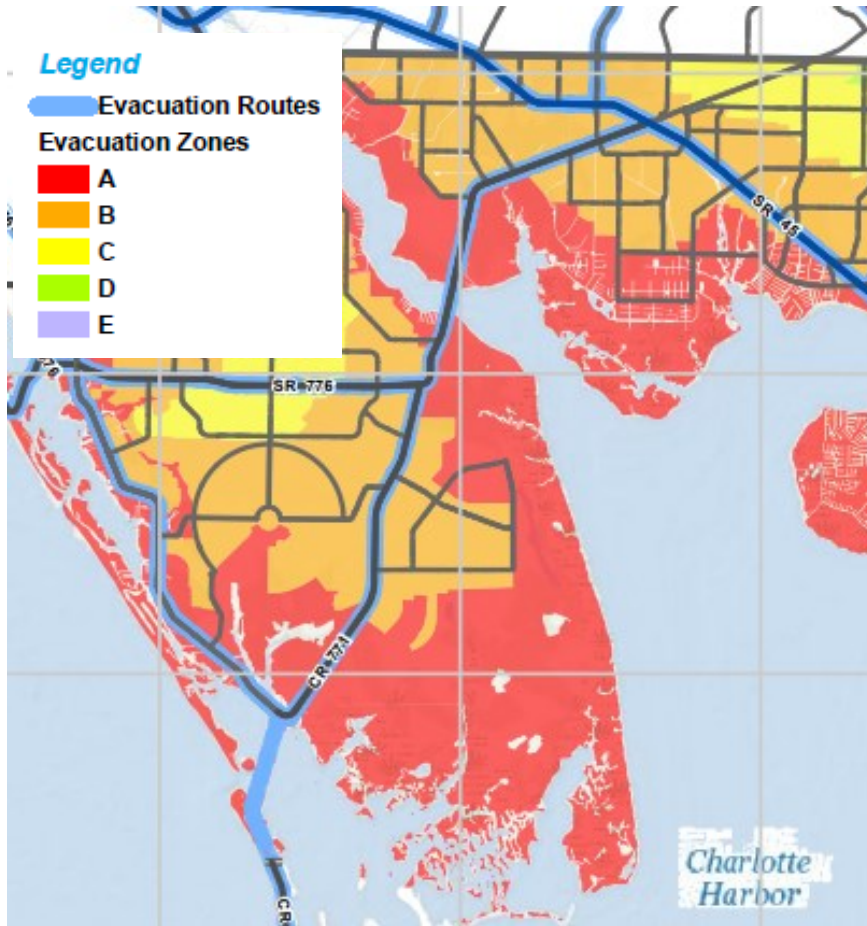
**June 10, 2021**



**RiskMAP**  
Increasing Resilience Together



# FEMA Coastal Flood Study Is Not an Evacuation Study



### Example Evacuation Map



### Example Preliminary FIRM

# Why a New Coastal Flood Study?

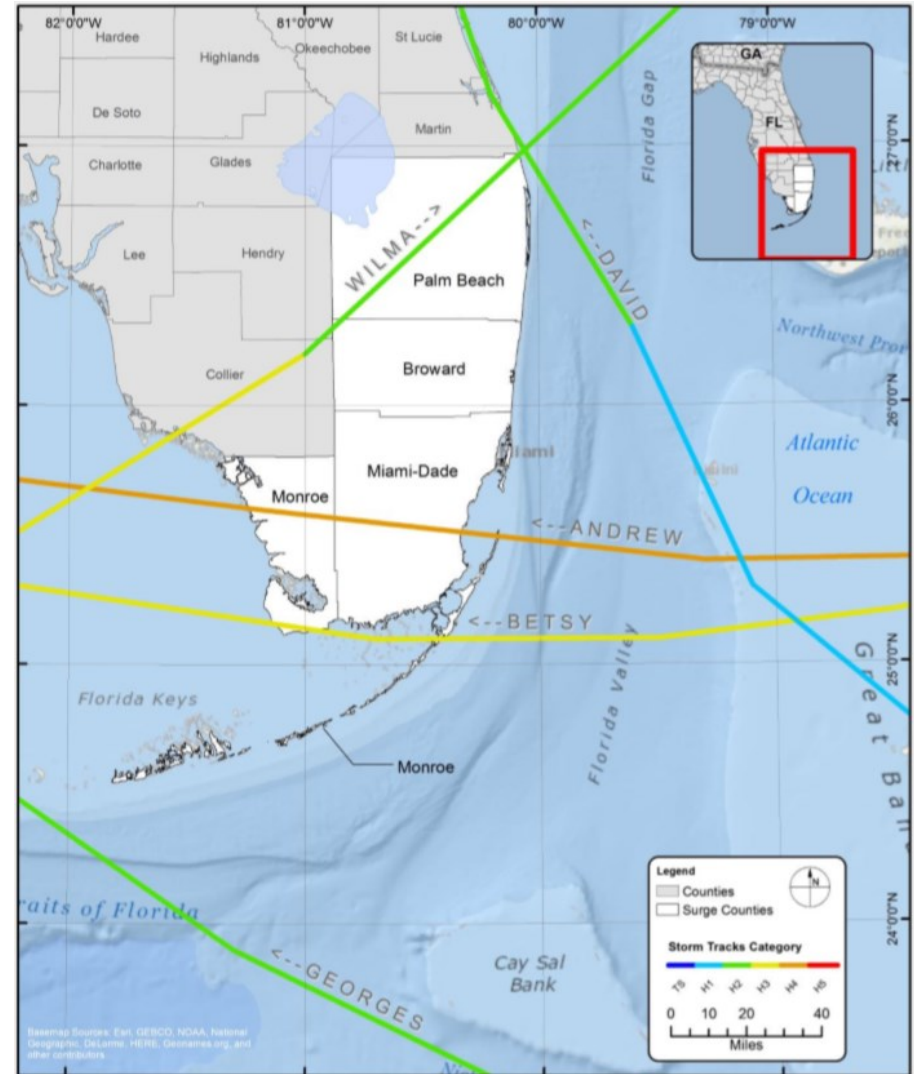
- **Current surge analysis is 30 to 40+ years old**
- **Topographic data from quad maps**
- **Overland modeling and mapping outdated**
- **Limited number of modeling transects (36)**
- **No LiMWA**

# Why a New Coastal Flood Study?

- **Today's flood risk is better defined**
- **More advanced and highly-resolved modeling methods**
- **Updated elevation data**
- **More modeling transects (now 218)**
- **Improvement in Geographic Information System (GIS) technologies for mapping**

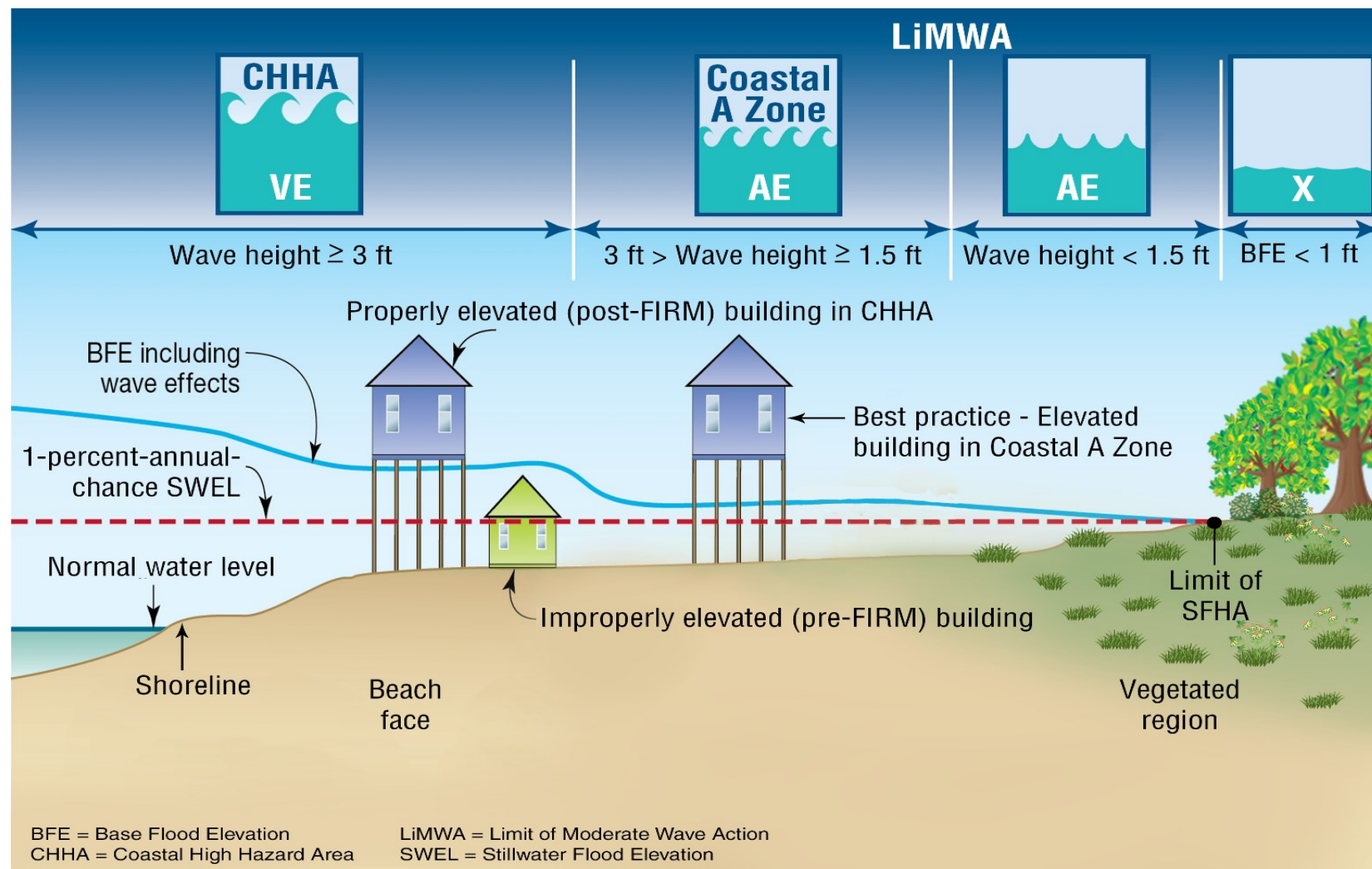
# Validation Storms

- **Storms Selected:**
  - Hurricane Betsy (1965)
  - Hurricane David (1979)
  - Hurricane Andrew (1992)
  - Hurricane Georges (1998)
  - Hurricane Wilma (2005)
- **Selected based on peak surge and available data**

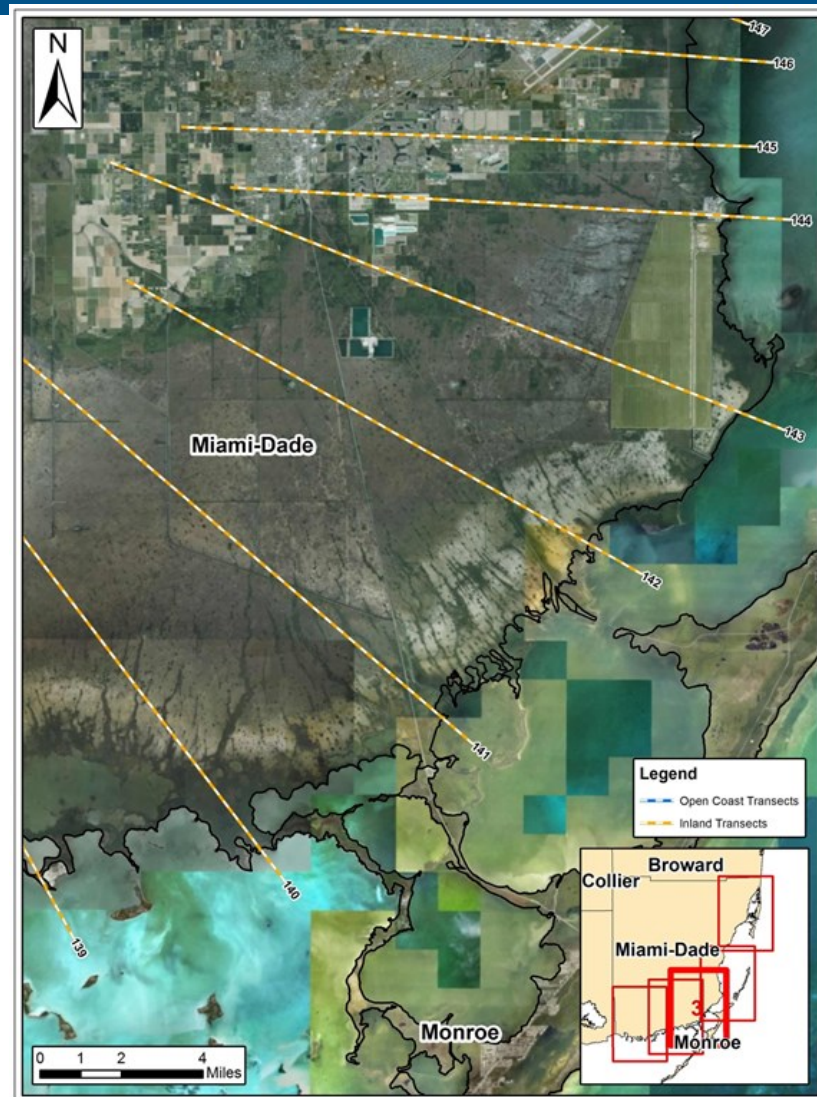
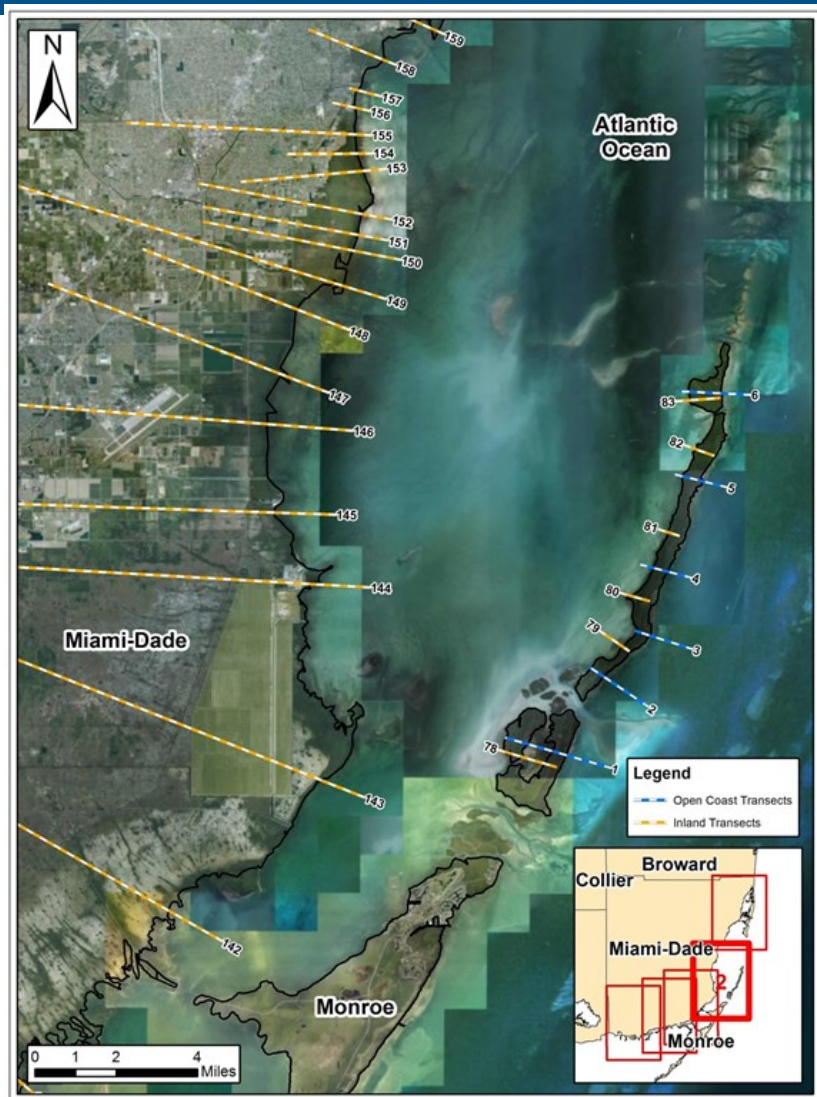




# Overland Wave Analysis



# Overland Wave Analysis: Transects





# Example FIRM



## FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT  
**THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT**  
[HTTPS://MSC.FEMA.GOV](https://MSC.FEMA.GOV)

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
OTHER AREAS OF FLOOD HAZARD		Regulatory Floodway
		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee See Notes. Zone X
OTHER AREAS		Area with Flood Risk due to Levee Zone D
		NO SCREEN Area of Minimal Flood Hazard Zone X
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Jurisdiction Boundary

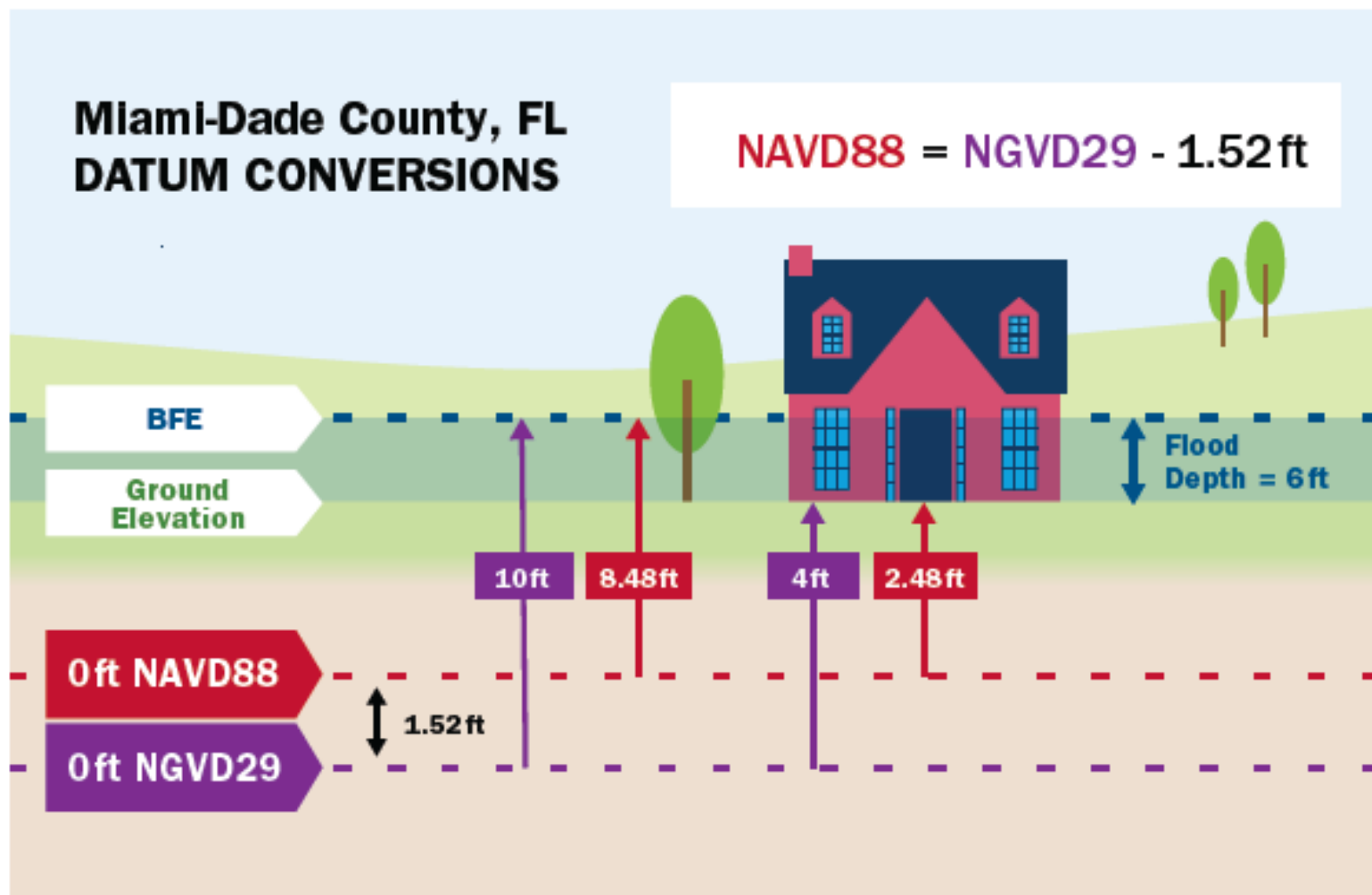


# Limit of Moderate Wave Action (LiMWA)

- **FEMA Procedure Memorandum No. 50, 2008 and Operating Guidance 13-13**
- **No Federal insurance regulatory requirement (at present) tied to LiMWA**
- **Florida Building Code now requires VE zone construction standards in areas defined by LiMWA or areas subject to waves greater than 1.5 feet**
- **CRS benefit for the requirement**



# Countywide Datum Conversion



# Miami-Dade County Watershed Study

- **Hydrologic and Hydraulic Modeling for the following watersheds:**
  - **Biscayne Canal Watershed (C-8): 28.8 mi<sup>2</sup>**
  - **Snake Creek Canal Watershed (C-9 West): 17.0 mi<sup>2</sup>**
  - **Royal Glades Canal Watershed (C-9 East): 23.4 mi<sup>2</sup>**
- **Model results calculated for the 10%, 4%, 2%, 1%, 1% Plus and 0.2% annual chance events**
- **Delivery consistent with FEMA's Data Capture Standards**



# Preliminary Map Package

- **Sent to each community (CEOs and FPAs)**
  - Miami-Dade County: sent February 25, 2021
- **Package included:**
  - Preliminary Miami-Dade County FIRM Index panel
  - Preliminary FIRM panels for community
  - Preliminary Flood Insurance Study (FIS) report
  - Preliminary Summary of Map Actions (SOMA)
  - Digital data (Changes Since Last FIRM)
- **218 Preliminary FIRM Panels**

# Preliminary Map Package: CSLF Example (Panel 0454 and 0462)

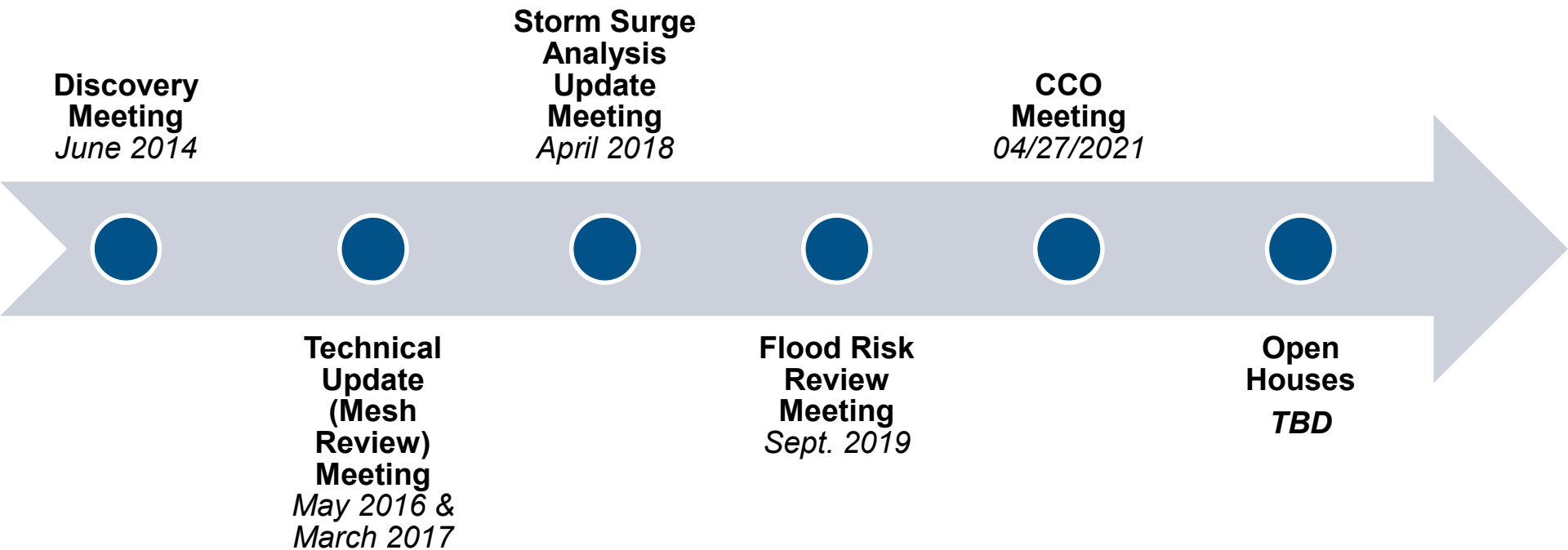
## Changes Since Last FIRM

- No Zone Change
- 1% Annual Decrease
- Floodway Decrease
- Floodway Increase
- 1% Annual Increase
- 0.2% Annual Decrease
- 0.2% Annual increase

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MIAMI-DADE COUNTY  
UNINCORPORATED AREAS  
120635

# Milestones and Schedule: Outreach Meetings





# Miami-Dade County Coastal Study: Post Preliminary Processing

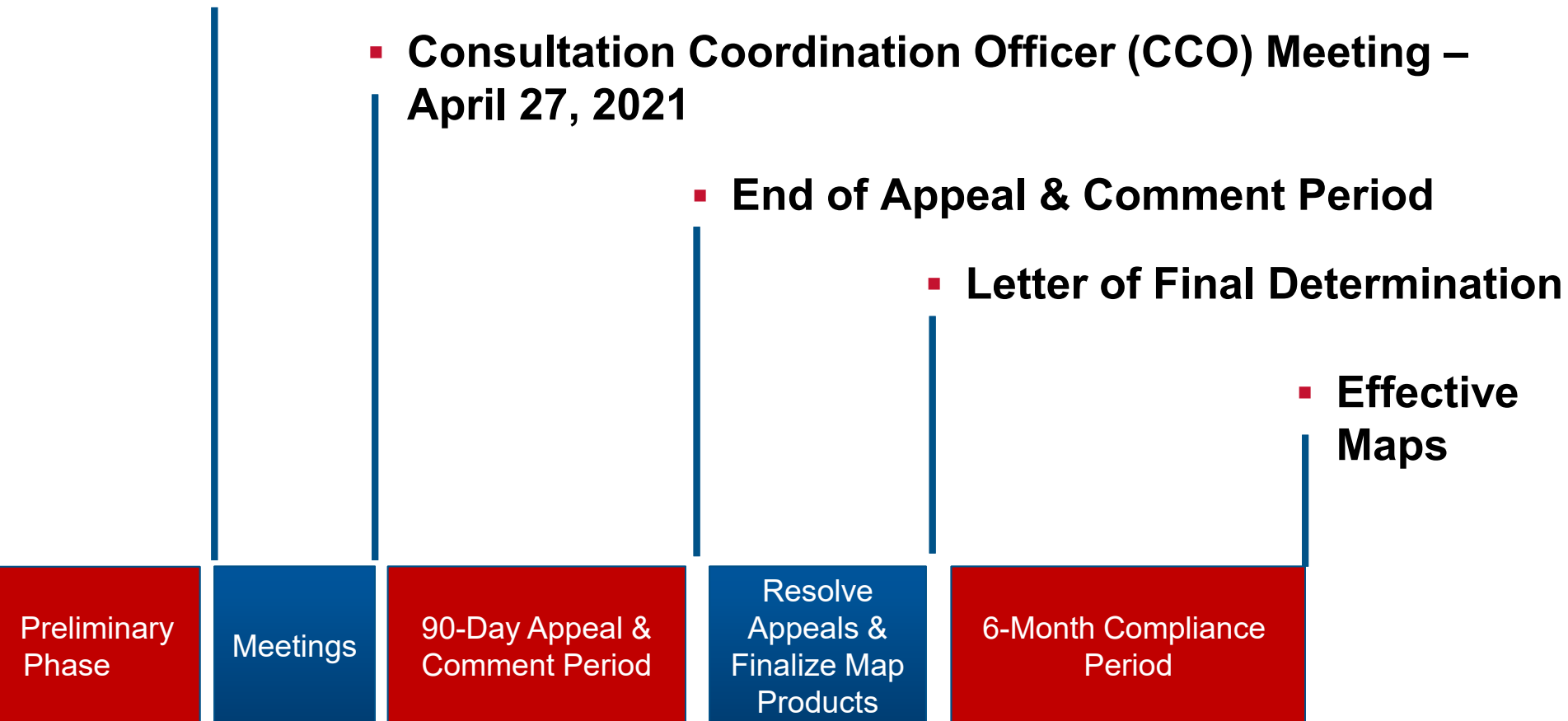
- Preliminary Maps Issued – February 25, 2021

- Consultation Coordination Officer (CCO) Meeting – April 27, 2021

- End of Appeal & Comment Period

- Letter of Final Determination

- Effective Maps



# Appeal and Comment Period

- Communities in Miami-Dade County will have a **90-day appeal period** for all changes to Special Flood Hazard Areas.
  - **SFHA changes will be published in the Federal Register**
  - **SFHA changes will be published in your local newspapers twice within a 10-day period**
  - **The second newspaper publication will begin the 90-day appeal period**

**Appeals are for all SFHA changes**

# What is An Appeal?

- **The new or revised BFEs are believed to be scientifically or technically incorrect**
- **The BFEs are scientifically incorrect if:**
  - The methodology used and assumptions made in the determination of the BFEs is inappropriate or incorrect
- **The BFEs are technically incorrect if:**
  - The methodology was not applied correctly or was based on insufficient or poor-quality data.
  - The methodology did not account for the effects of physical changes that have occurred in the floodplain.
- **Must be certified by Professional Engineer and reviewed/approved by community**



# Appeal and Comment Period

- Communities in Miami-Dade County will also have a **comment period**.
- Comments do not involve BFEs.
- Comments include, but are not limited to, the following:
  - **Channels Names and Locations**
  - **Road Names and Locations**
  - **Corporate Limit Changes**
  - **Topographic Data**

**All other changes are considered Comments**

# Appeal Resolution Process

- **During the appeal period process, FEMA will:**
  - Acknowledge receipt of appeal(s)/comment(s) via letter(s) to CEO(s)
  - Send CEO(s) letter(s) to explain resolution of appeal(s)/comment(s)
  - Send communities updated FISs and FIRMs (if applicable).

**FEMA will deny appeals and comments that are not adequately supported by data/information.**

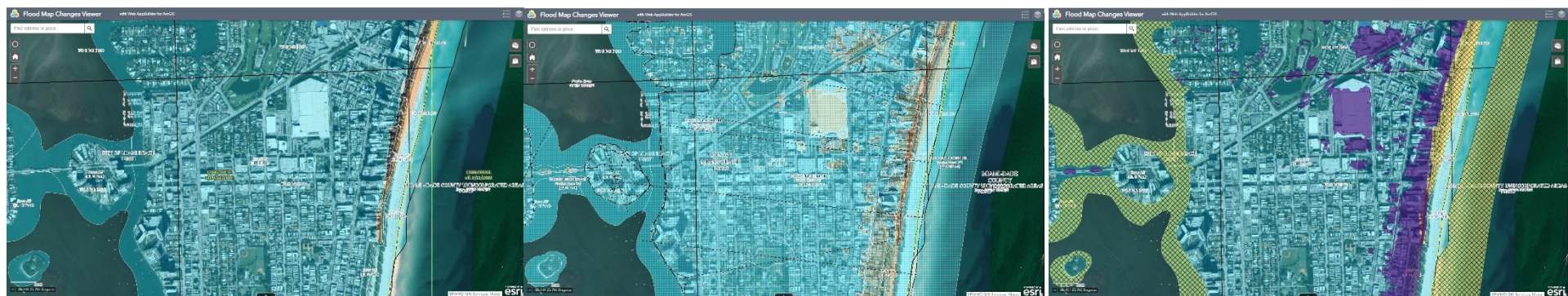
# Letter of Final Determination (LFD) and Adoption/Compliance

- LFDs follow the appeal period and begin the 6-month adoption/compliance period.
- Adoption/compliance: communities adopt the new FIRM(s) into floodplain ordinances.
- FDEM or FEMA Region IV staff may contact communities and offer assistance with reviewing and updating their floodplain ordinances.
- If a compliant ordinance is not received before the FIRM effective date, the community will be suspended from NFIP



# Flood Map Tools

- **FEMA Map Service Center**
- <https://msc.fema.gov/portal/home>
- **Flood Map Changes Viewer**
- [Flood Map Changes Viewer \(arcgis.com\)](https://arcgis.com)



# Team Contact Information

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