



UF | GeoPlan Center

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Satellite Beach, Florida

From the Bottom Up: Implementing Resiliency
at the Local Government Level

HAZUS[®]
EARTHQUAKE • WIND • FLOOD MH



Project Objectives

1

Work with the City to develop and update GIS files to include high-precision elevation data for stormwater, critical facilities and vulnerable buildings.

2

Use improved infrastructure datasets to develop enhanced storm surge flood assessments using FEMA's HAZUS Multi-Hazard Assessment Tool.

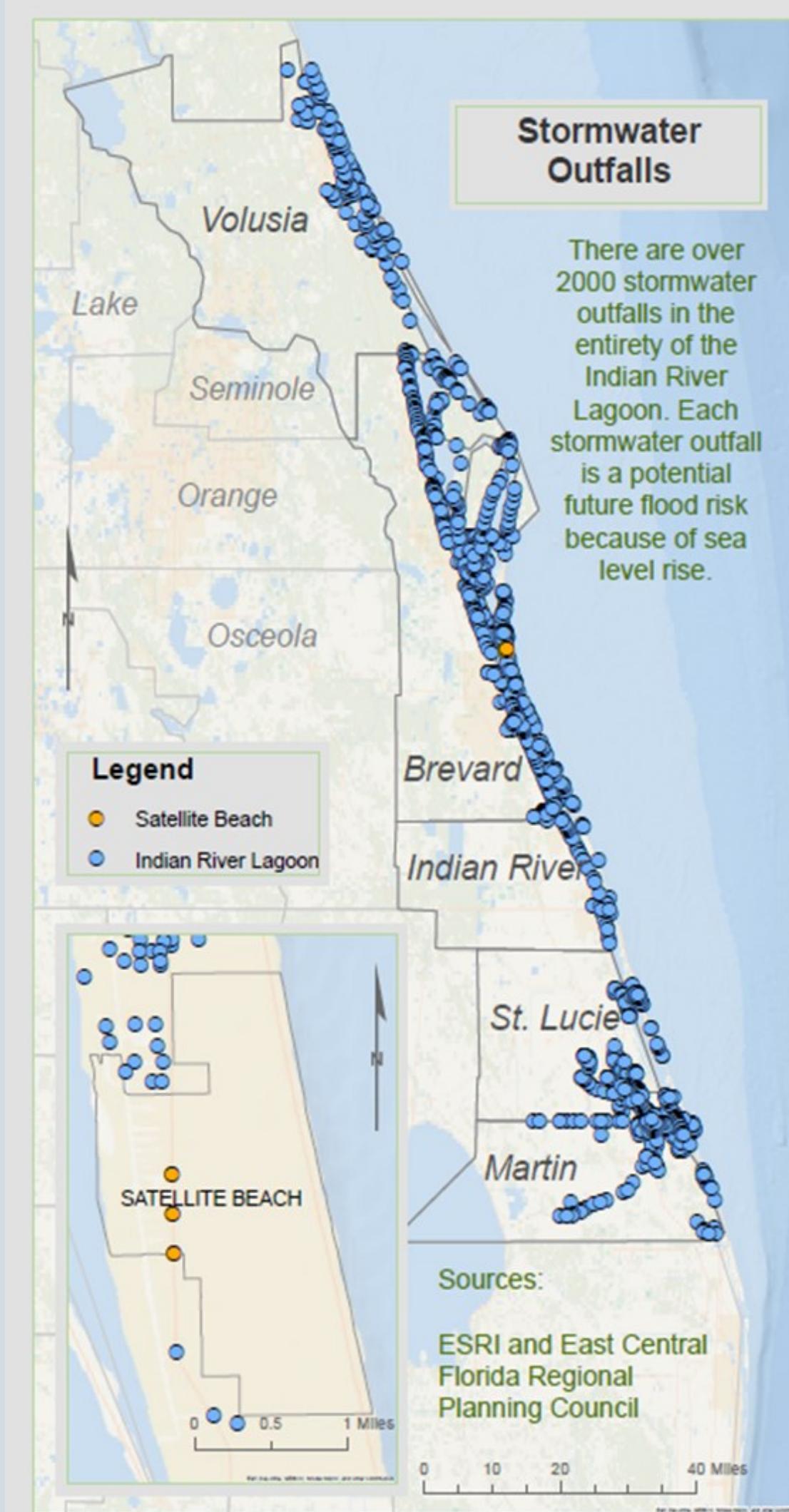
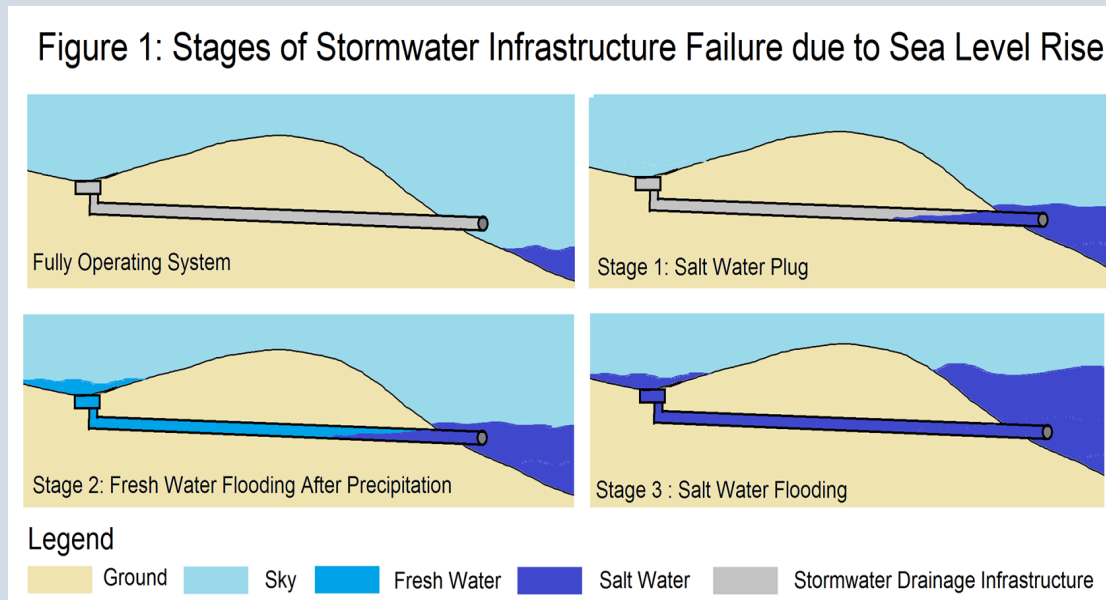
3

Integrate HAZUS results with previous vulnerability assessments and policy frameworks to develop specific recommendations for increasing Satellite Beach's resilience to sea level rise and future flood risks.

4

Work with—and learn from—key local stakeholders throughout all stages of the project period, with student researchers playing a central role in community engagement.

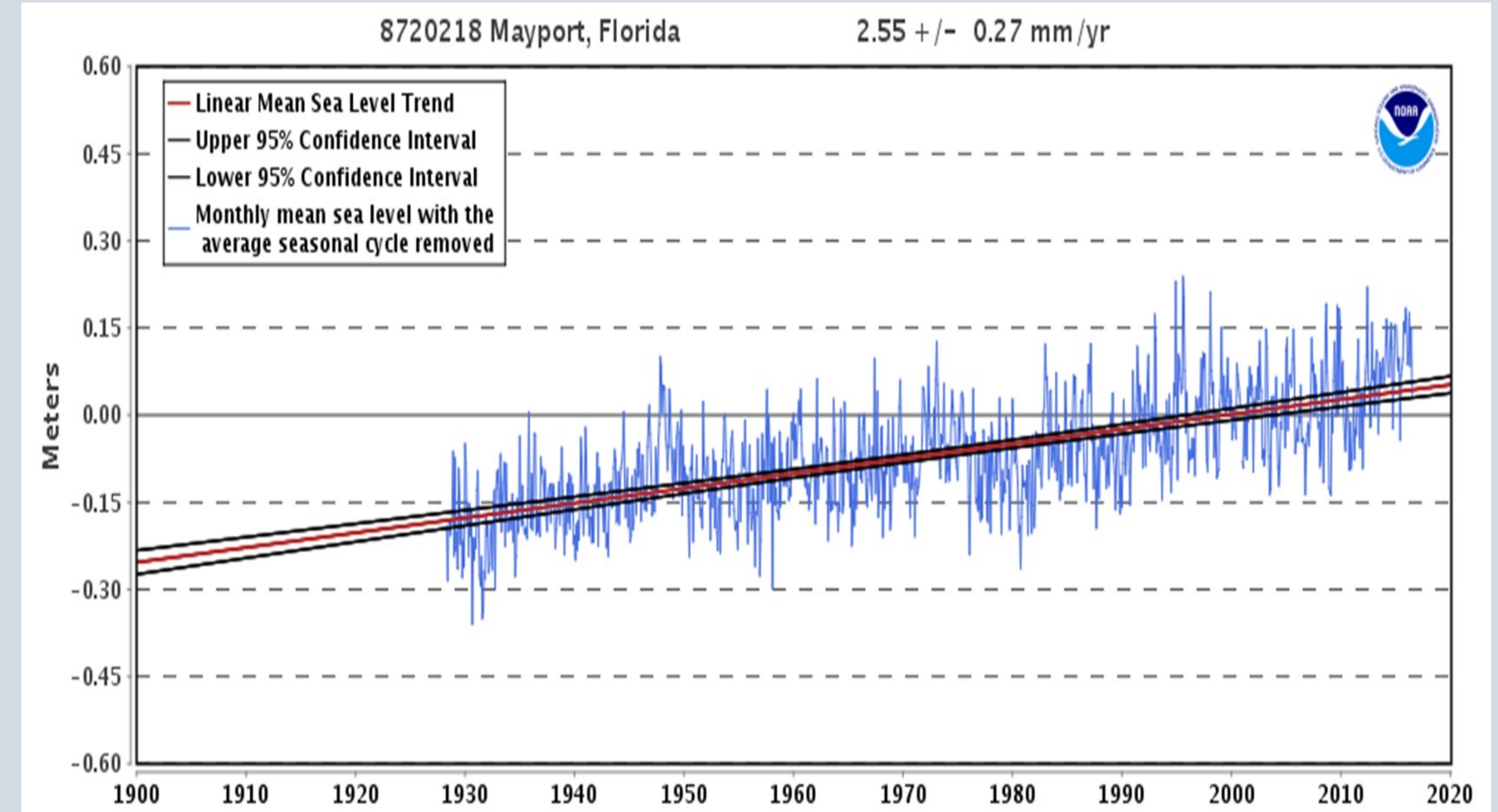
Why Stormwater?



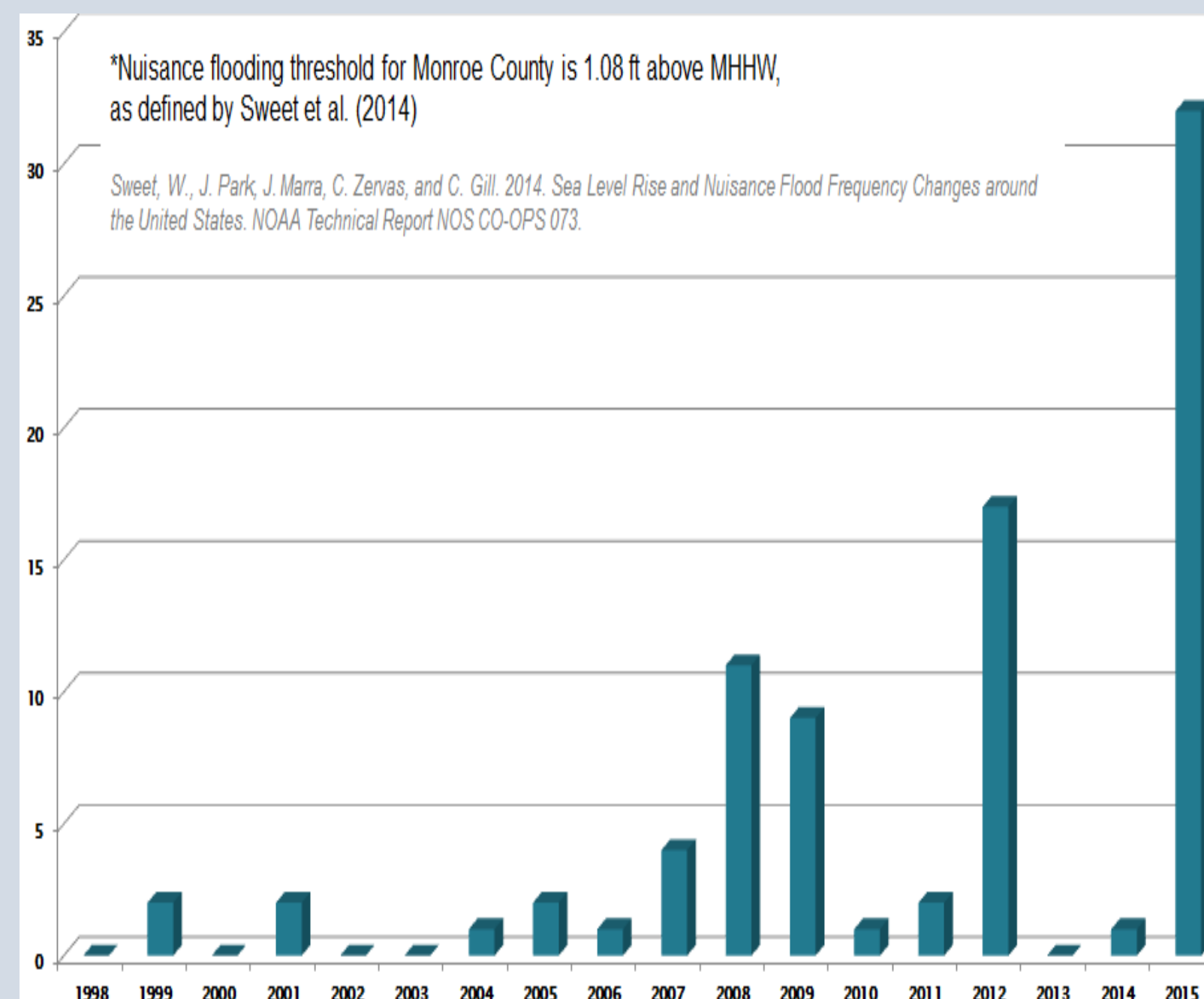
HAZUS-MH Allows Users To:

- **IDENTIFY** vulnerable areas that may require planning considerations
- **ASSESS** level of readiness and preparedness to deal with a disaster before it occurs
- **ESTIMATE** potential losses from specific hazard events (before or after a disaster hits)
- **DECIDE** how to allocate resources for most effective and efficient response and recovery
- **PRIORITIZE** mitigation measures that need to be implemented to reduce future losses

Mean Sea Level Trend (1900-2016)



Nuisance Floods Per Year, Vaca Key



Sea Level Rise Projections to Year 2100

