

Welcome!

Concepts of Resilience for Coastal Systems

An Instructional Module for
American Shore and Beach
Preservation Association's
Coastal Credentialing

BUILDING STRONG®

Introductions

- Name & Organization
- What types of resilience studies, assessments, discussions have you had previously?
- What would you like to accomplish through taking this short course?

BUILDING STRONG®

Through this course, you will...

- Understand concepts of coastal resilience
- Explore options available to increase coastal resiliency
- Learn about approaches available to estimate coastal resilience

BUILDING STRONG®

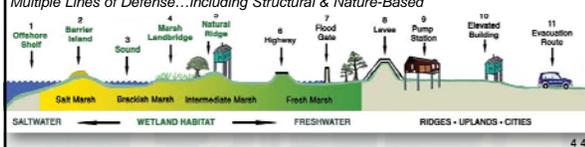
Focus of course...

- Coastal measures to increase resiliency
 - ▶ Structural
 - ▶ Nature-Based
 - ▶ Non-Structural
- Tools to assess resilience
- Data and resources
- Not emergency operations



Data and Resources
Governance
Non-Structural

Multiple Lines of Defense...including Structural & Nature-Based



SALTWATER WETLAND HABITAT FRESHWATER RIDGES • UPLANDS • CITIES

4 4

What makes a Resilient Coastal Community?



- Diverse
- Balanced
- Prepared
- Informed

U.S. Indian Ocean Tsunami Warning System Program, 2007.
http://ncstr.pmel.noaa.gov/education/IO-TWS/program_reports/CoastalCommunityResilienceGuide.pdf



 BUILDING STRONG® Innovative solutions for a safer, better world

5 5

Agenda (1 of 2)

Time	Topic	Lead	Goal
8:00-8:15	Welcome and Introductions	Julie Rosati, Cate Fox-Lent, Katherine Touzinsky, Emily Vuxton	Understand background of participants
8:15-8:30	Review Objective and Requirements for Successful Assessment	Julie Rosati	Understand objectives and requirements
8:30-9:00	Concepts of Coastal Systems Resilience	Julie Rosati	Define resilience and understand concepts of risk, sustainability, vulnerability and adaptive management
9:00-9:30	Best practices for Coastal Community Resilience	Cate Fox-Lent	Explore best methods to increase system resilience



 BUILDING STRONG® Innovative solutions for a safer, better world

Agenda (2 of 2)

Time	Topic	Lead	Goal
9:30-10:00	Methods, Tools, and Resources for Coastal Resilience	Katherine Touzinsky	Understand methods and tools available and steps required for a resilience calculation
10:00-10:15	Break		
10:15-11:00	Hands-On Example: South Padre Island, TX	All	Practice utilizing methods and data resources
11:00-11:30	Breakouts report to Group	Breakout Leads	Gain broader perspectives
11:30-11:45	Review; questions	Julie, Cate, Katherine, Emily	Review main concepts of discussion
11:45-12:00	Post-module test		Test understanding




BUILDING STRONG® Innovative solutions for a safer, better world

At the end of this Short Course, you will:

- Understand and be able to explain the distinction between **resilience, risk, vulnerability, & sustainability**
- Be familiar with some **tools and resources** available to further resilience discussions
- Be able to articulate what **best practices and adaptive management** measures could be undertaken to improve resiliency
- Understand how **resilience can be approximated**, and associated inherent assumptions and limitations




BUILDING STRONG® Innovative solutions for a safer, better world

Questions?

As we go through the course today, please jot down...

- Topics/tools/resources not covered that you would like discussed
 - ▶ In version 2 of this short course, or
 - ▶ Follow-on short course, e.g., "Coastal Resilience II"
- Any questions
- Any feedback for us




BUILDING STRONG® Innovative solutions for a safer, better world
