

NOAA DIGITAL COAST

Jewel Tuiasosopo

Advancing Nature-Based Solutions for Coastal Resilience

Overview:

- Quick background on NOAA Office for Coastal Management and the Digital Coast
- Visualizing and communicating coastal hazards
- Learning products to implement nature-based solutions





Programs

Funding

Fellowships

Fast Facts

About

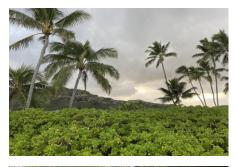
Search















Natural or green infrastructure is existing natural resources and engineered systems that re-create natural processes to manage floodwater and erosion



Digital Coast

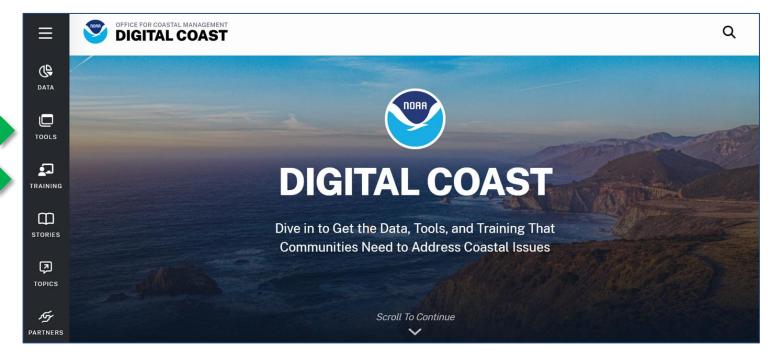
coast.noaa.gov/digitalcoast



NOAA Office for Coastal Management | American Planning Association
Association of State Floodplain Managers | Coastal States Organization
National Association of Counties | National Estuarine Research Reserve Association
National States Geographic Information Council | The Nature Conservancy | Urban Land Institute

Digital Coast

coast.noaa.gov/digitalcoast



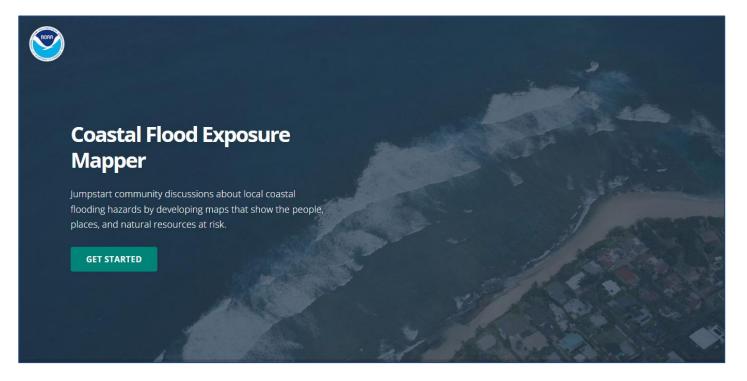


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Visualizing and Communicating Coastal Hazards



coast.noaa.gov/digitalcoast/tools/flood-exposure.html







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American Samoa

American Samoa, ASM

American Samoa, Faleasao, **American Samoa**, **ASM**

American Samoa Community College, 001, Mesepa, Tualauta, West, American Samoa, 96799, ASM

American Samoa Bank, 016, Tafuna, Tualauta, West, American Samoa, 96799, ASM

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BASEMAPS



LEGEND



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ACTIVE LAYERS

SAVED MAPS 2

HAZARD LAYERS

Coastal Flood Hazard Composite	\bigcirc	0	0
High Tide Flooding	\bigcirc	0	0
FEMA Flood Zones	\bigcirc	0	0
Tsunami	\bigcirc	0	\mathbb{O}
Storm Surge	\bigcirc	0	0
Sea Level Rise	\circ	0	0

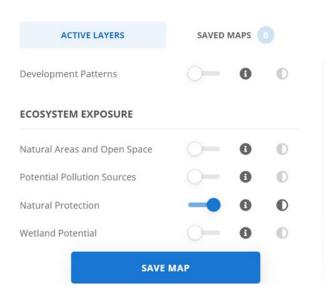
SOCIETAL EXPOSURE

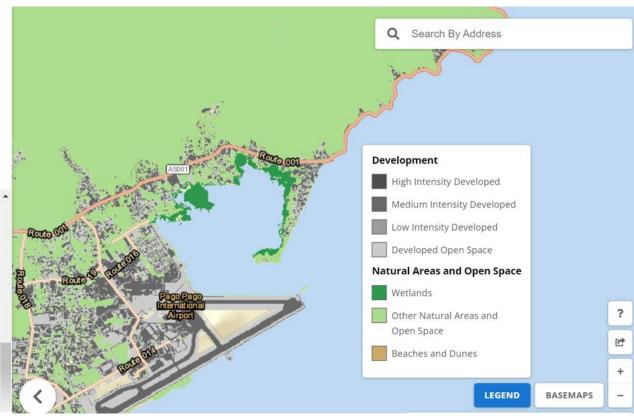
Population Density	0-	0	0
Poverty	0-	0	\mathbb{O}
Elderly	\bigcirc	0	0





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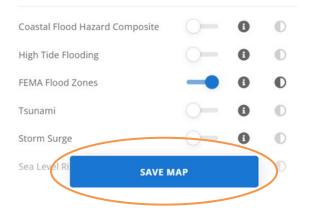


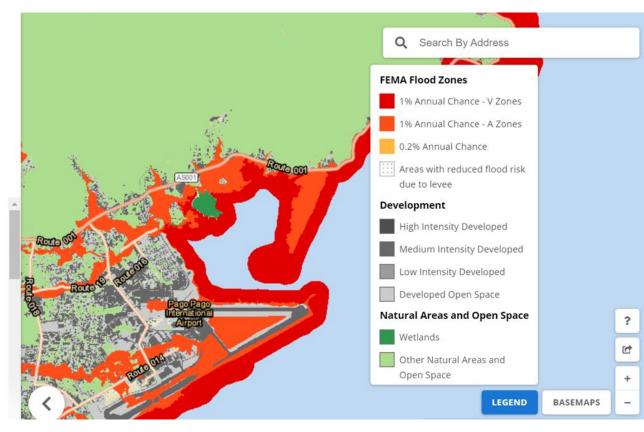


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ACTIVE LAYERS SAVED MAPS 1

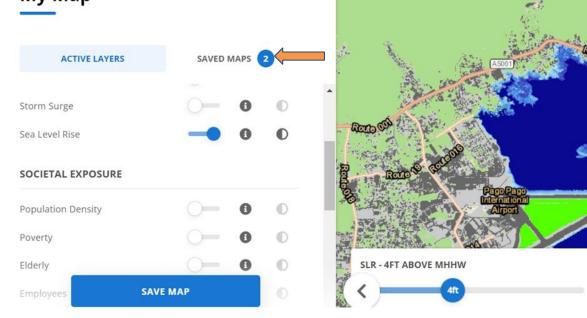
HAZARD LAYERS

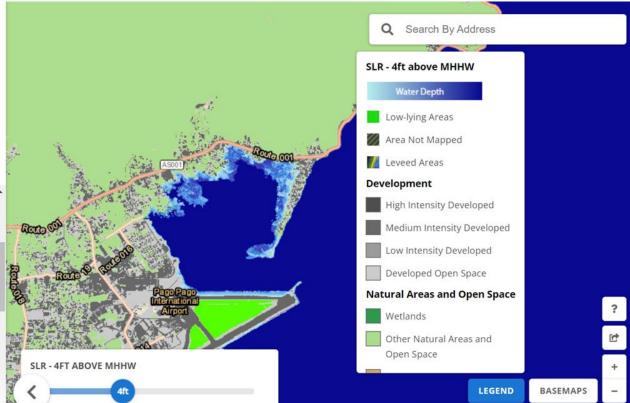






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Saved Maps

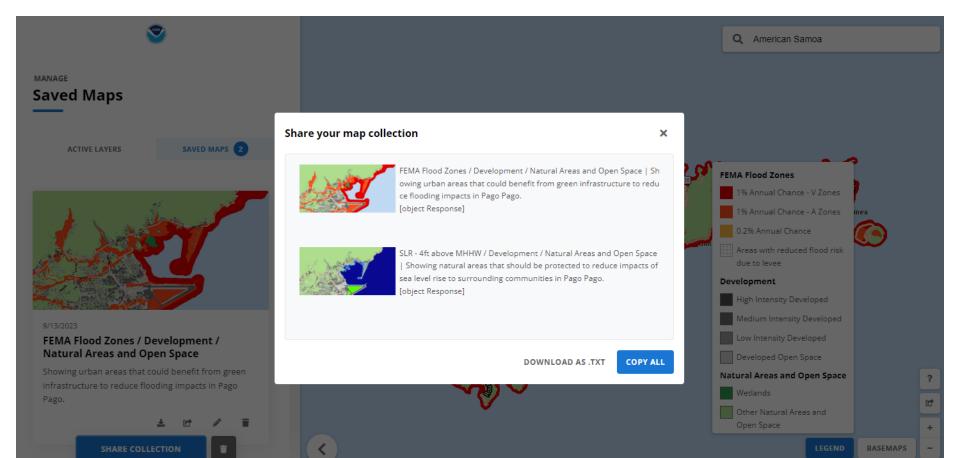
ACTIVE LAYERS

SAVED MAPS 2









Overview:

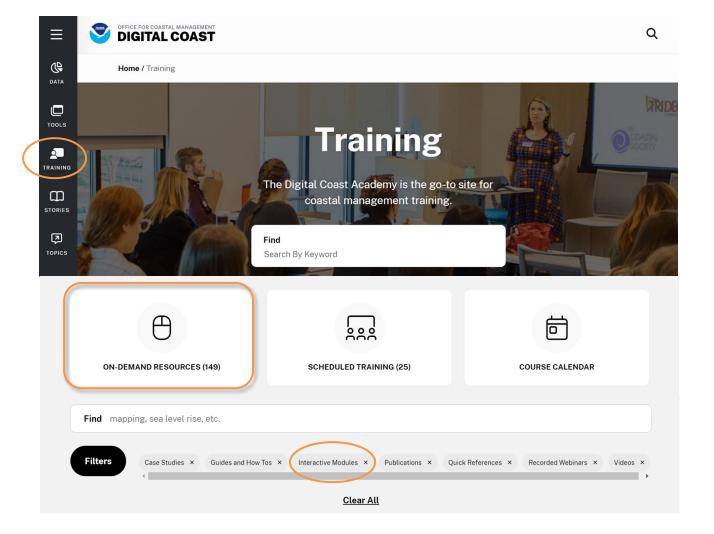
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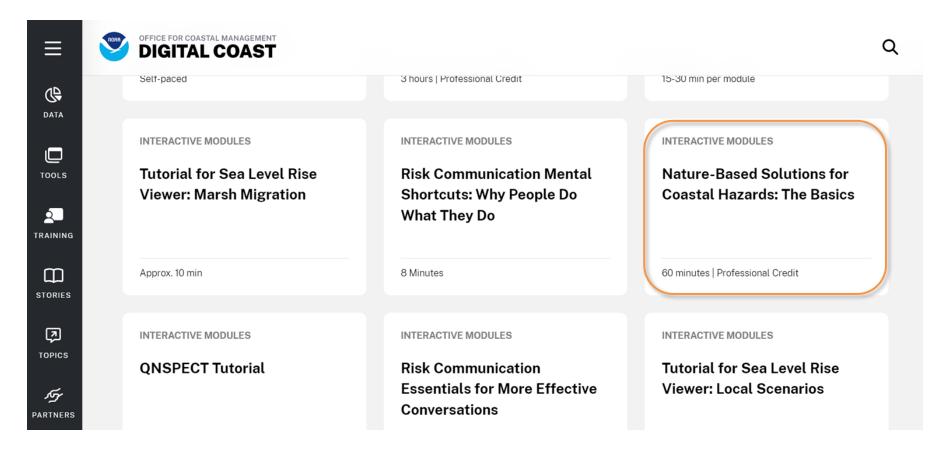
Implementing Nature-Based Solutions to Increase Resilience

- Nature-Based Solutions for Coastal Hazards: The Basics
- Green Infrastructure Effectiveness Database
- Green infrastructure design and installation guides
- Case studies and where to find more information



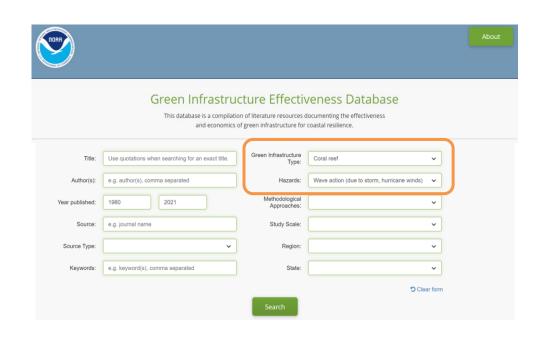


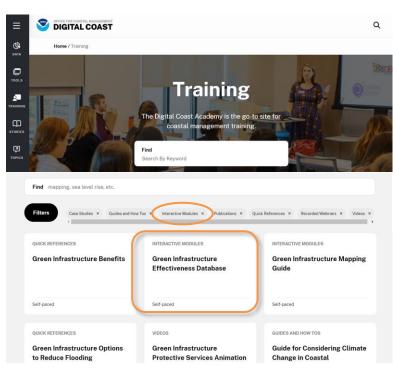
Interactive Modules



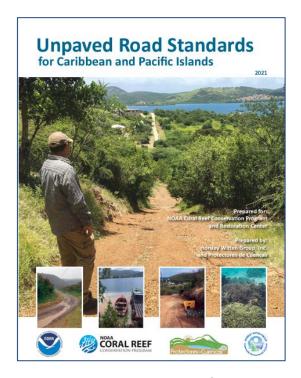
Green Infrastructure Effectiveness Database

coast.noaa.gov/digitalcoast/training/gi-database.html

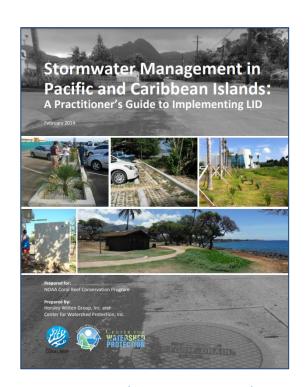




Designing and Installing Nature-Based Solutions



www.coris.noaa.gov/activities/
Unpaved_roads/welcome.html



coast.noaa.gov/digitalcoast/training /low-impact.html

Green Infrastructure Case Studies

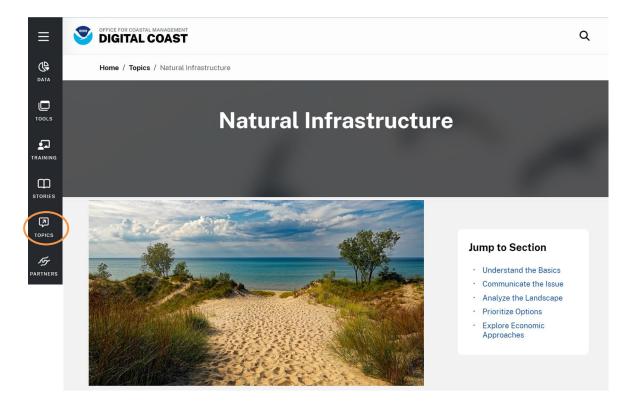
coast.noaa.gov/digitalcoast/training/home.html

Implementing green infrastructure at multiple scales

Using Novel Approaches to Create Resilient Dune Systems Following Hurricane Maria

Diverse financing portfolio for innovative project

Community rain gardens as an environmental education tool



coast.noaa.gov/digitalcoast/topics/green-infrastructure.html



Fa'afetai!

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