

# Offshore Resource Use and Management Panel



Nicole Elko, Ph.D.  
Executive Director



Supporting the Blue Economy - SECOORA Annual Meeting - May 23, 2018

# U.S. Coastal Research Program

September 2016

U.S. Nearshore Community Integrated  
Research Implementation Plan -

## The National Plan



## U.S. Nearshore Community Integrated Research Implementation Plan - The National Plan



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September 2016

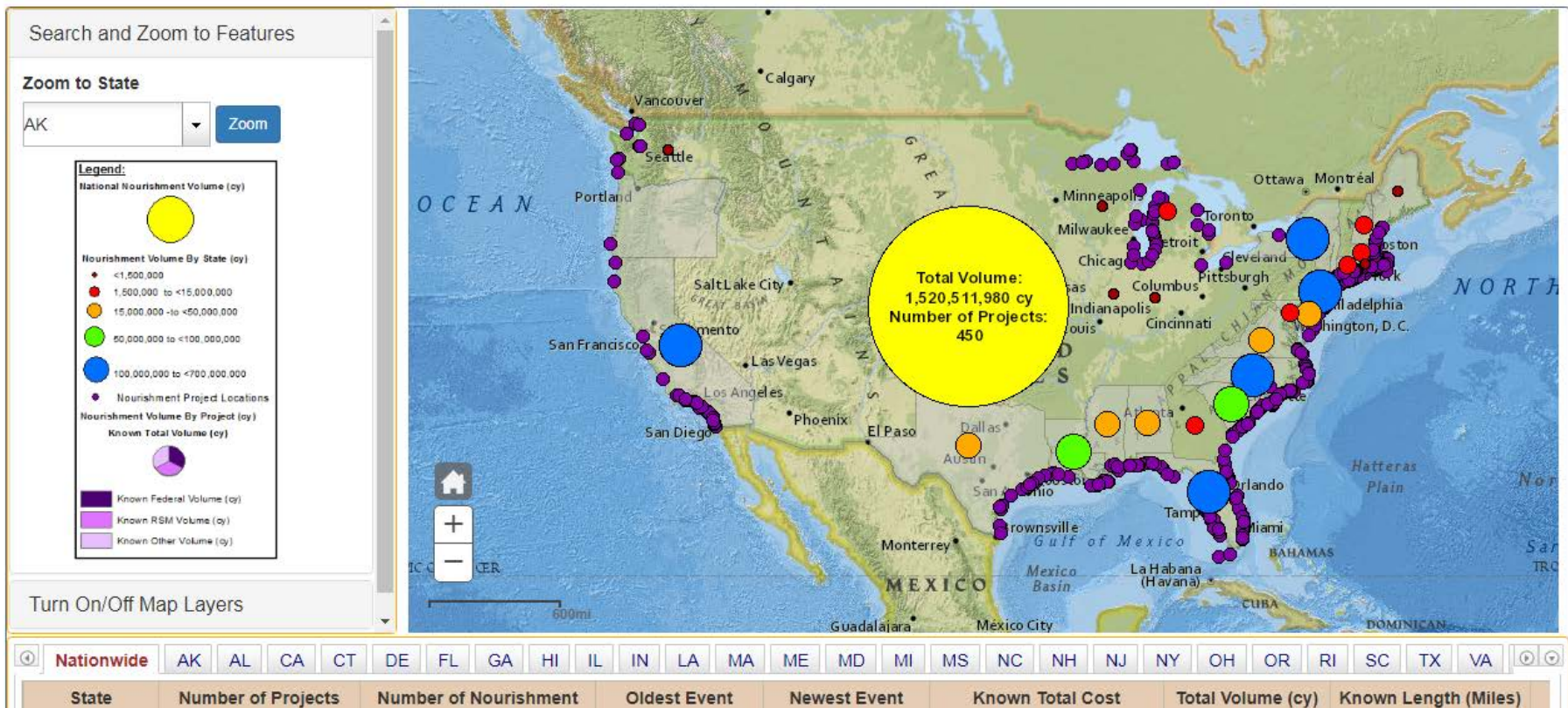


# The Blue Economy

- Tourism (and ports) drive the economies of coastal communities
- 85% of all tourism-related revenue is generated in coastal states
- Beaches help generate \$225 billion a year for the US economy, contributing about \$25 billion in federal tax revenue



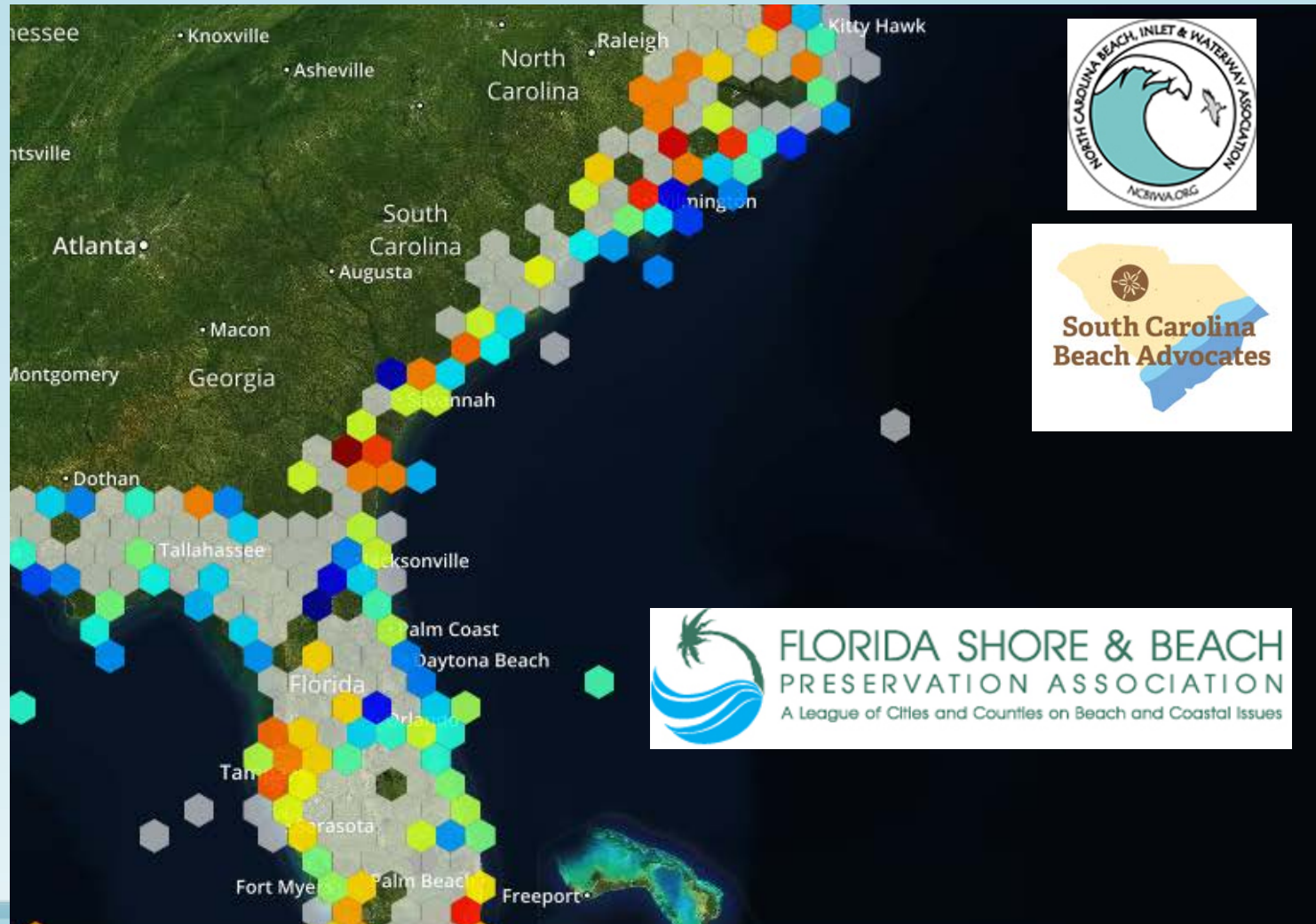




## Beach nourishment projects, National scale statistics, since the 1920's

- Total number of Projects: 450
- Events: 2,922
- Total Volume: 1.52 B cy
- Total Known Length of Coast Nourished: 818 mi
- Total Known Cost: \$6B

# State Beach Advocacy Groups





For updates  
and additional  
information, visit  
**MoreBeachToLove.com**

- Latest project updates
- Additional FAQs
- Interactive project maps showing progress of construction
- Subscribe to receive email updates in your inbox
- Video updates

**MORE BEACH TO  
LOVE**  
OUTER BANKS  
SHORELINE MANAGEMENT

## 2017 Beach Nourishment Projects



**MORE BEACH TO  
LOVE**  
OUTER BANKS  
SHORELINE MANAGEMENT

Improvements  
**today**  
for a better beach  
**tomorrow.**



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Search and Zoom to Features

Zoom to State

SC

Zoom

Legend:

National Nourishment Volume (cy)



Nourishment Volume By State (cy)

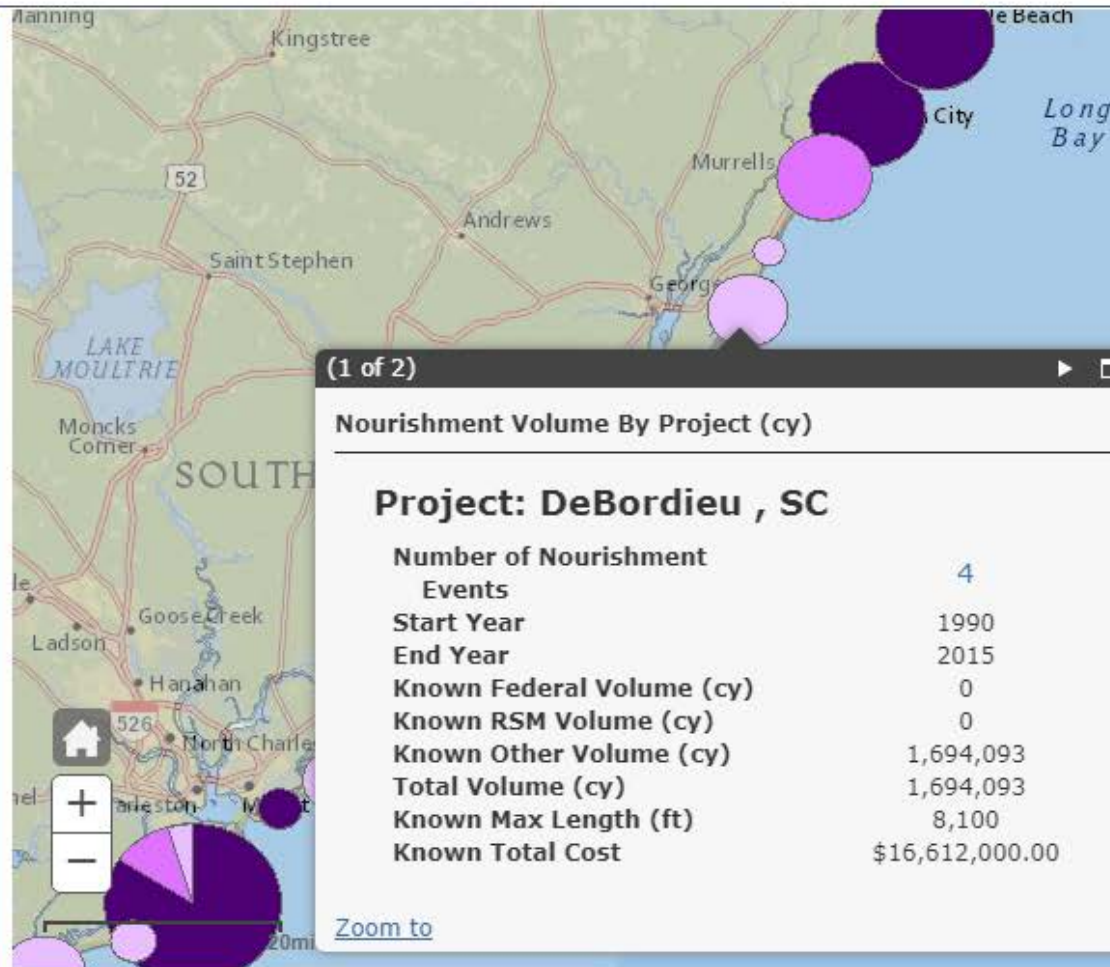


Nourishment Volume By Project (cy)

Known Total Volume (cy)



Turn On/Off Map Layers



(1 of 2)

Nourishment Volume By Project (cy)

Project: DeBordieu , SC

Number of Nourishment Events	4
Start Year	1990
End Year	2015
Known Federal Volume (cy)	0
Known RSM Volume (cy)	0
Known Other Volume (cy)	1,694,093
Total Volume (cy)	1,694,093
Known Max Length (ft)	8,100
Known Total Cost	\$16,612,000.00

Zoom to

Nationwide AK AL CA CT DE FL GA HI IL IN LA MA ME MD MI MS NC NH NJ NY OH

Project Name

Number of  
Nourishment Events

Start Year

End Year

Total Volume (cy)

Known Max



# 450 Communities

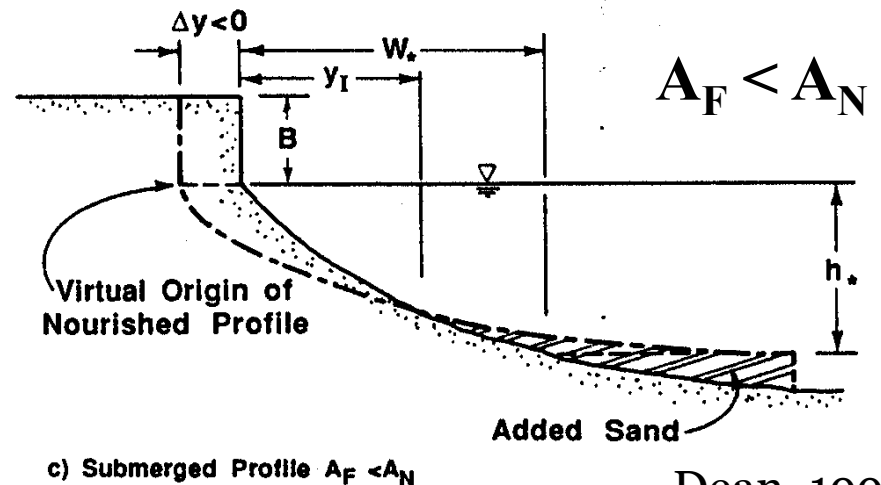
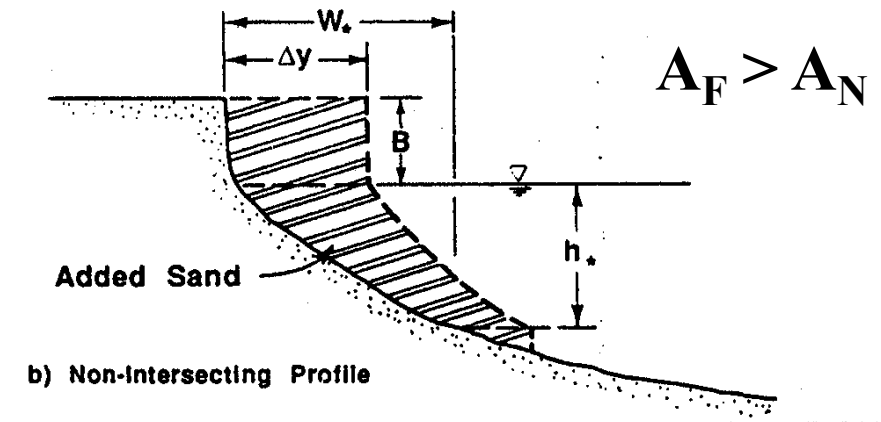
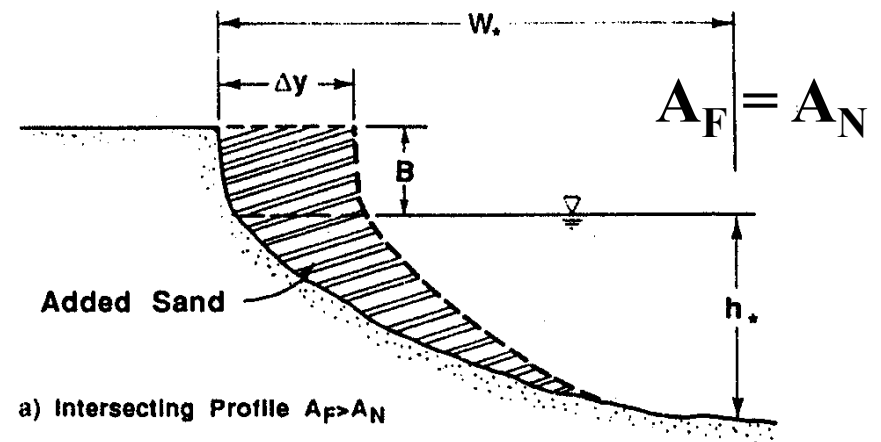




# Grain size & Profile Equilibration

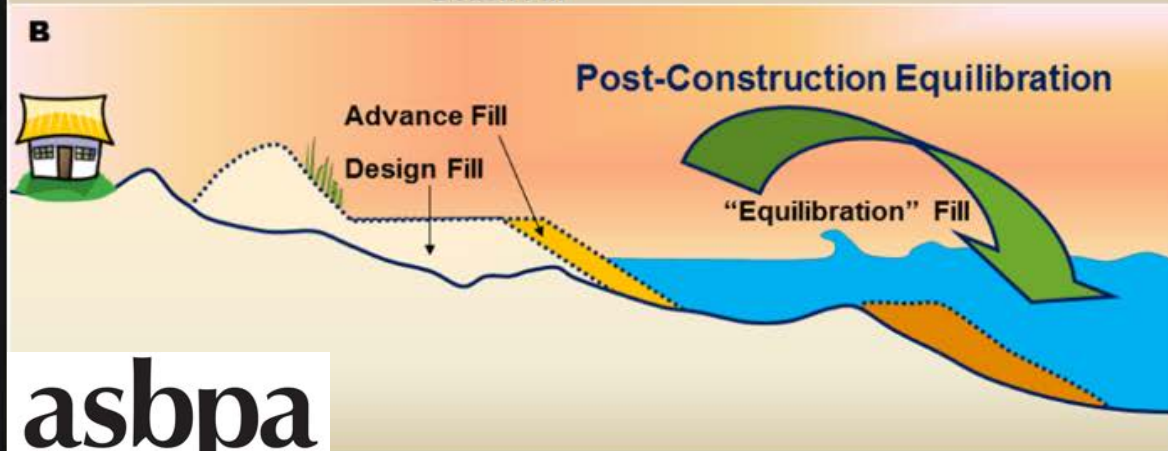
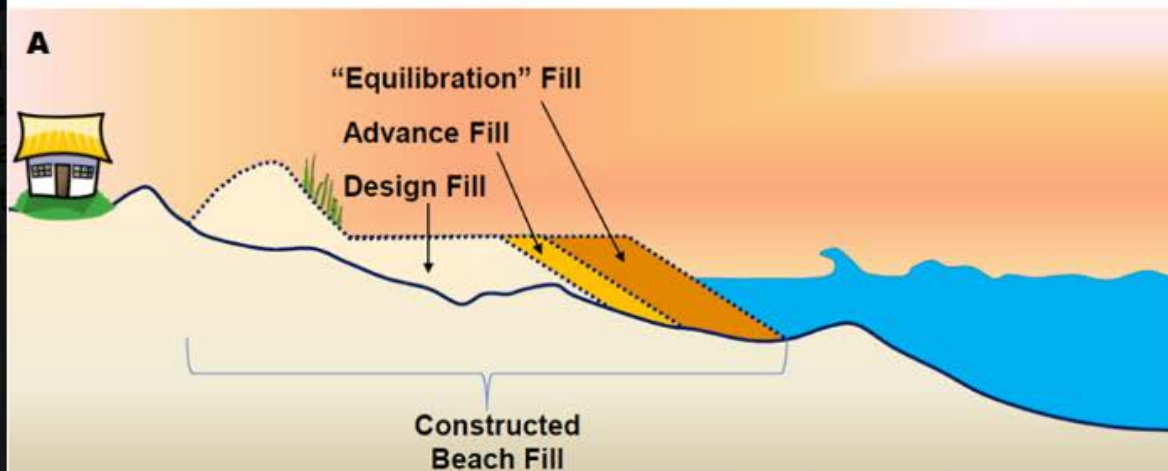
$$h = Ay^{2/3}$$

- Coarser sand tends to move onshore.
- Finer sand tends to move offshore.



Dean, 1991

# Public Outreach



**asbpa**

American Shore & Beach Preservation Association  
Advocating for healthy coastlines



**American Shore and Beach  
Preservation Association**

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Have you read our new White Paper on "Beach Nourishment Profile Equilibrium"? It explains why beaches appear to diminish right after the sand gets pumped on the beach - it's not failure, it "profile equilibrium"!

[http://asbpa.org/wpv2/wp-content/uploads/2016/03/WhitePaper\\_85\\_2\\_Profile\\_Eq.pdf](http://asbpa.org/wpv2/wp-content/uploads/2016/03/WhitePaper_85_2_Profile_Eq.pdf)



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5 Comments



Reuben Trevino Melody Smith MaryBeth Bassett. Good info to get out

Like · Reply · 1y



Malcolm Peele Very interesting, informative information for the folks of the Outer Banks as we continue to pursue beach



Write a comment...







*Charleston*  
SOUTH CAROLINA

DECEMBER 2015

## Sea Level Rise Adaptation Report Beaufort County, South Carolina



March 2015

S.C. Sea Grant Consortium Product #SCSGC-T-15-02



Social and Environmental  
Research Institute



cisa  
collaborative integrated sciences & assessments

# We know what 2 ft of SLR looks like!



## Community needs for future collaboration:

- Economic analysis of benefits of S.C. beaches
- Continued public outreach
  - Translating/disseminating science to users
- Higher spatial resolution, real-time water level data

Photo Source: Eric Lutz



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