

BOEM's Sand Resource Vision to Support Coastal Communities



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- **Vision for the Marine Minerals Program (MMP)**
- **Top Four Priorities**
- **2016 MMP Highlights**
- **Trends in OCS Activity**
- **Challenges and Opportunities**
- **The Takeaway**



- To serve as the lead federal agency and liaison in support of the Nation's current and long-term interests in OCS non-energy marine minerals.
 - OCS sediment resources are critical to future coastal infrastructure projects such as constructing beaches and dunes
 - Not limited to leasing sand or responding to latest disaster
- BOEM making scientific and economic study investments
- Post Hurricane Sandy \$16.3 Million. Successful in investing:
 - \$12.8 M** conducting surveys to identify OCS sand resources, updating data bases, maps,
 - \$ 3.1 M** environmental and monitoring studies
 - \$ 400 K** stakeholder outreach



- In Gulf, we plan to invest \$5.1 million over next 2 years for environmental studies, resource evaluation and economic research. Coastal erosion significantly affecting on environment, industry, coastal protection
- In Pacific, study with USGS and CA Natural Resource Agency to characterize sand resources in coordination with Coastal Sediment Mgt. Workgroup: **Ocean Beach, San Francisco Littoral Cell; Oceanside Littoral Cell** (Northern San Diego); **Silver Strand Littoral Cell** (Southern San Diego)
- National Program Serving National Interests
 - USACE North Atlantic Div. estimates 140 MCY sediment needed for coastal storm risk management over next 20 years



- 1. Create a National Sand Inventory**
- 2. Create and share an OCS Marine Minerals Information System**
- 3. Strengthen partnerships, expand dialogue**
- 4. Continue environmental studies and study partnerships**



#1 – Create a National Sand Inventory

- **Build upon historic investments the bureau has made in resource evaluation with coastal states over nearly 25 years along with recent data acquisition efforts such as Atlantic Sand Assessment Project (ASAP).**
- **Sharing data through Lamont-Doherty, NROC and MARCO Data Portals; Planning GOM sand inventory**





BOEM collection:

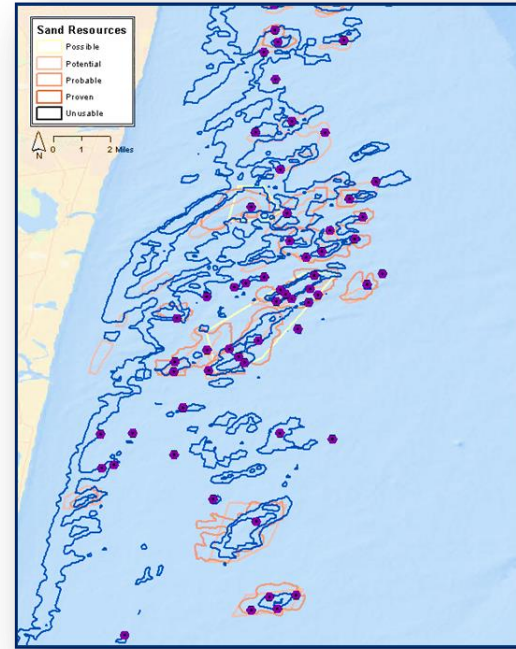
- 250 core samples and meta-data available for coastal managers to access
- Data on sediment thickness, composition, organic content, beach sand compatibility

- Available for researchers
- Lamont's System for Earth Sample Registration (SESAR)
<http://www.geosamples.org/>

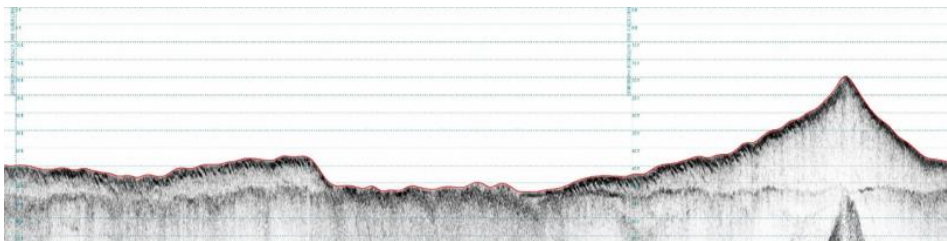


#2 – Produce and roll out a Marine Minerals Information System

Deliver the best data available on offshore sediment characteristics and locations of significant sand resources to coastal planners and managers



Hoping to launch next yr.



#3 – Strengthen partnerships, expand dialogue

At Federal, state, and local levels with stakeholders



Priority 3 - Partnerships

BOEM BOEM MARINE MINERALS PROGRAM RECOGNIZES ITS
BUREAU OF OCEAN ENERGY MANAGEMENT FEDERAL AND STATE PARTNERS IN PROMOTING COASTAL RESILIENCE



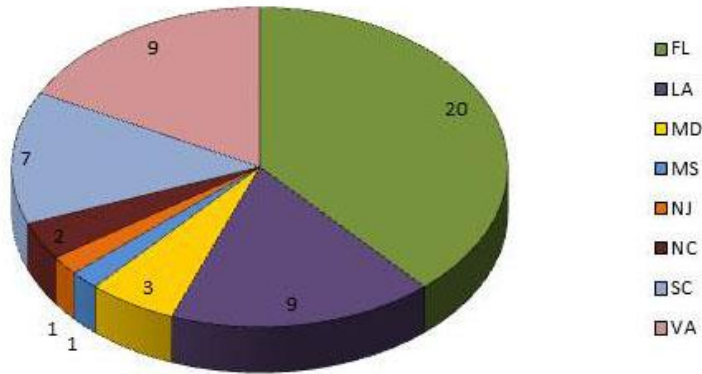
#4 – Continue environmental studies and study partnerships

With Federal, state and academic partners to help inform decisions and reduce impacts

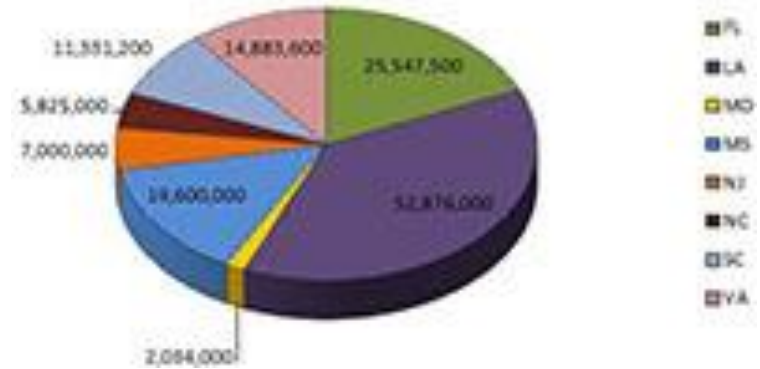
- USACE Nearshore Coastal Research
- USGS Pacific – San Francisco; San Diego
- USACE – Sea Turtle Entrainment
- USACE – Sediment Sorting
- NOAA – EFH Geospatial Analysis
- State Cooperative Agreements



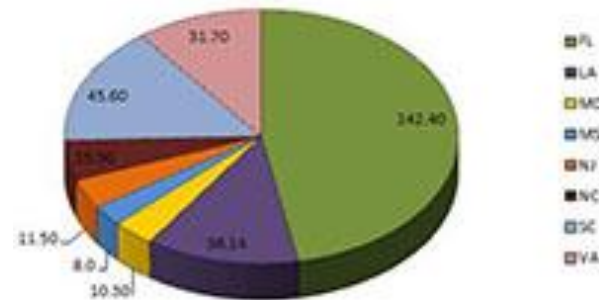
Number of projects



Cu Yd Allocated



Miles of Shoreline Restored



303 Miles of coastline restored
139+ MCY OCS Sand Allocated
52 Leases Executed
42 Projects completed
8 States



4 New Negotiated Agreements –

- **Jacksonville, FL** (1.4 MCY);
- **Dare Co** (4.8 MCY for Duck, Kitty Hawk, Kill Devil Hills, NC)
- **Myrtle Beach** (1 MCY for Garden City & Surfside Beach, SC);
- **Gulf Island National Seashore** (19.6 MCY, largest in MMP history, MS MsCIP)

Sandy-Funded State Cooperative Agreements - Round 1 completed , and Round 2 underway

Marine Minerals Information System – Data model developed, data input, hosting environment being evaluated

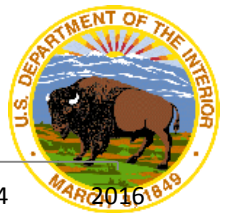
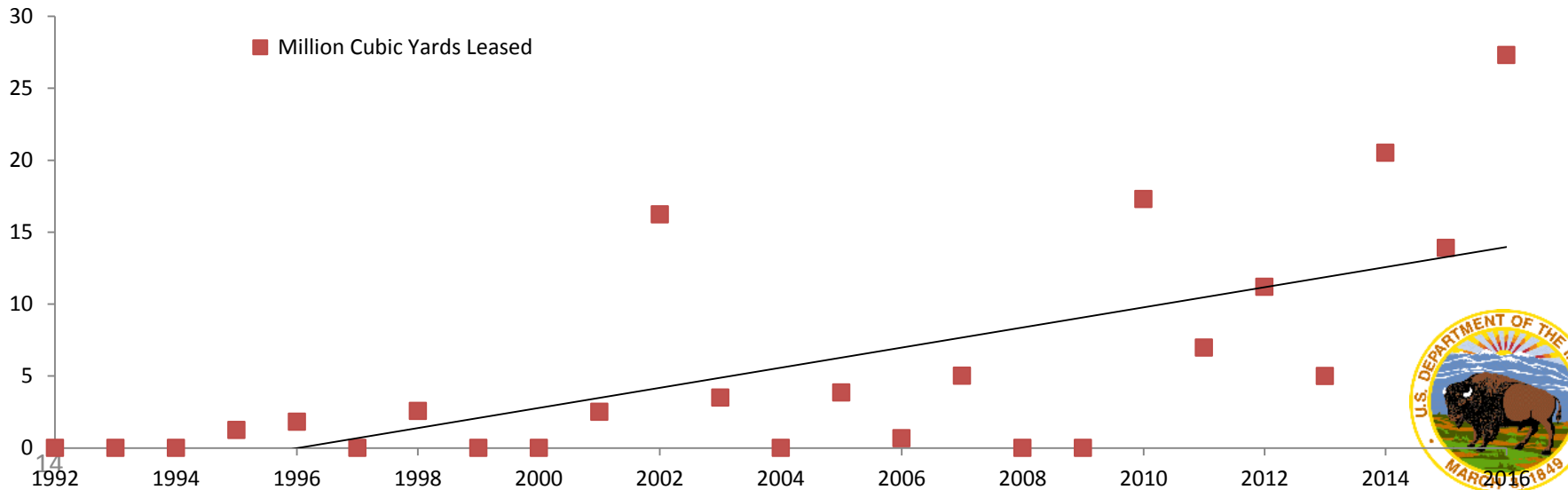
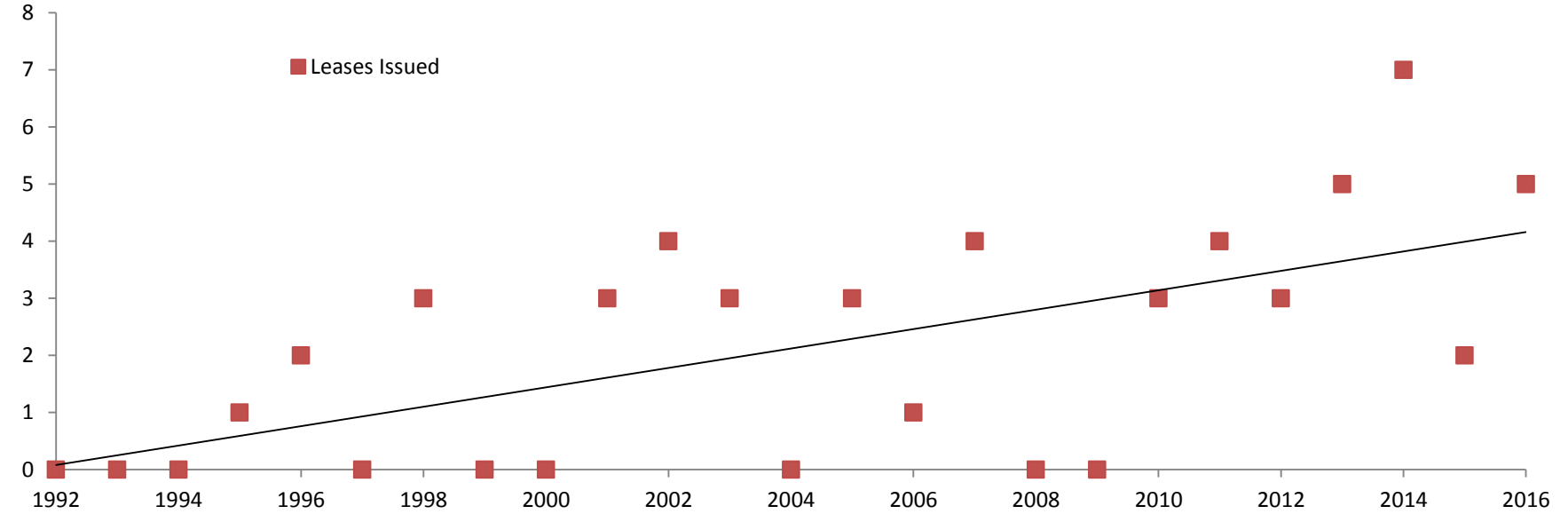
ASAP – reconnaissance level data being evaluated, design levels surveys completed, contract mod for add'n surveys in 2017

Environmental Studies - USGS IA in Pacific, DE Coop, Sea Turtle Entrainment Decision Tool w/ USACE, MCDA w/ USACE,

Northeast and Mid-Atlantic Ocean Plans - Offshore Sand Management



MMP Trends - Activity Increase



- 1. Can't manage what you don't measure – whether it's the sand resource, the ecosystem, or wildlife**
- 2. Is Federal sand limited in certain regions ?**
- 3. Multiple use conflicts – pipelines, submarine cables, fishing interests**
- 4. Tradeoffs – Help communities understand their options**
- 5. Reminder of the sometimes invisible value of the program to the Nation:** enjoying a day at the beach, restoring wetlands, protecting defense and other public infrastructure.



BOEM is developing a National OCS Sand Inventory

BOEM continues to develop and conduct environmental studies to inform program

BOEM is a future-oriented agency looking over the horizon

Ultimately my goal is that we become known as the Bureau of Ocean Energy & Minerals



Thank You

Contact us:

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For more Information

<https://www.boem.gov/Marine-Minerals-Program/>

