

Belgian part of the North Sea 2005

Main shipping route Anchorage area

Dredged zones

Dumping zones

Aggregate extraction Former war munition dumping site Wind turbine concessions

Habitat area Ramsar area

Military exercises

- Buoys and weather masts
- Wrecks
 - Cables in use
- – Cables in disuse
 - Pipelines
 - Electricity cable



99 % fishing

264% Total Claim

for Space

(based on legislation)

97 % shipping from which 20 % traffic separation

- 26 % military use
- 15 % sand & gravel extr.
 1,2 % dredging & dumping
 0,6 % wind parks
 18 % cables & pipelines
 0,1 % coastal defense
 1,9 % coastal recreation

Uncoordinated Sectoral Ocean Management

Turnipseed et al. Science, April 10, 2009



Uncoordinated sectoral ocean governance. A cacophony of activities, most regulated by separate federal agencies, crowd ocean waters in the Gulf of Maine. A federal public trust doctrine extended to all U.S. ocean waters would identify these agencies as trustees of the U.S. ocean public trust, unifying them for the first time under a common mandate to manage marine resources sustainably. LNG, liquified natural gas; OPAREAs, Operating areas.

The Problem

Management System

- •Single species, sectors or issues approaches
- Reactive to individual applications rather than proactive
- Fractured authorities (140 laws managed by 20 agencies) and lack of agency coordination



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National Ocean Policy: Executive Order 7.19.10



Support sustainable uses





BIG PICTURE (Gulf Coast)



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COORDINATION National Ocean Council















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AN OCEAN BLUEPRINT



U.S. COMMISSION ON OCEAN POLICY

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Framework for Coastal and Marine Spatial Planning

THE WHITE HOUSE COUNCIL ON ENVIRONMENTAL QUALITY

For Immediate Release

July 19, 2010

EXECUTIVE ORDER

_ _ _ _ _ _ _

STEWARDSHIP OF THE OCEAN, OUR COASTS, AND THE GREAT LAKES

By the authority vested in me as President by the Constitution and the laws of the United States of America, it is hereby ordered as follows:

Smart Ocean Planning

SCIENCE-BASED





Proactive Planning to Reduce Conflicts



Use-Use Conflicts







Proactive Planning to Reduce Conflicts



Use-Environment Conflicts



Benefits of Smart Ocean Planning: Stellwagen Bank



Right Whale whale strike



Benefits of Smart Ocean Planning: Stellwagen Bank



Planning to **Evaluate** Cumulative Impacts







Adaptive Planning

New technology



Changing conditions



USA State Plans























SAMP Adopted 10.19.10 RI Renewable Energy Area Designated



SAMP Implementation for turbine location Deepwater Wind 2013



SAMP Adopted 10.19.10 Conservation Areas











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Implementation

Regional Planning Areas Large Marine Ecosystems





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CMSP Phased Implementation



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Funding for CMSP FY 2011 \$7.0 million FY 2012 \$3.5 million FY 2013 \$4.0 million **FY 2014 \$0**



Regions where Smart Ocean Planning is underway



Ocean Planning North East US Continental Shelf

Northeast Regional Ocean Council (NROC)

- Formed 2005
- Initiated CMSP 2012



CMSP Northeast RPB launched 11.12



Northeast Ocean Data Portal



Filling Data Gaps: Northeast Boater Survey



Ocean Planning North East US Continental Shelf

Mid Atlantic Regional Council on the Ocean (MARCO)

- Formed 2009
- Initiated CMSP 2013



CMSP Mid-Atlantic RPB launched 9.13





Mid-Atlantic Ocean Data Portal



Ocean Funding

\$100s Millions



National Endowment for the Oceans (NEO)



Passed the Senate May 2013 WRDA

Establishes fund and uses without designating a funding stream

Water Resources Development Act WRDA



Ocean chemistry

Habitat restoration

Sea level rise Ocean temperature Coastal erosion



NEO Sec. 12005. Eligible uses

Support programs and activities intended to restore, protect, maintain or understand living marine resources and their habitats and ocean, coastal and Great Lakes resources, including baseline scientific research, ocean observing...

Modeling

Observing

Planning Monitoring Research

WRDA Conference



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