High Seas Protected Areas: Some Pragmatic Perspectives

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Presentation to NOAA

Silver Spring, February 28th, 2011.

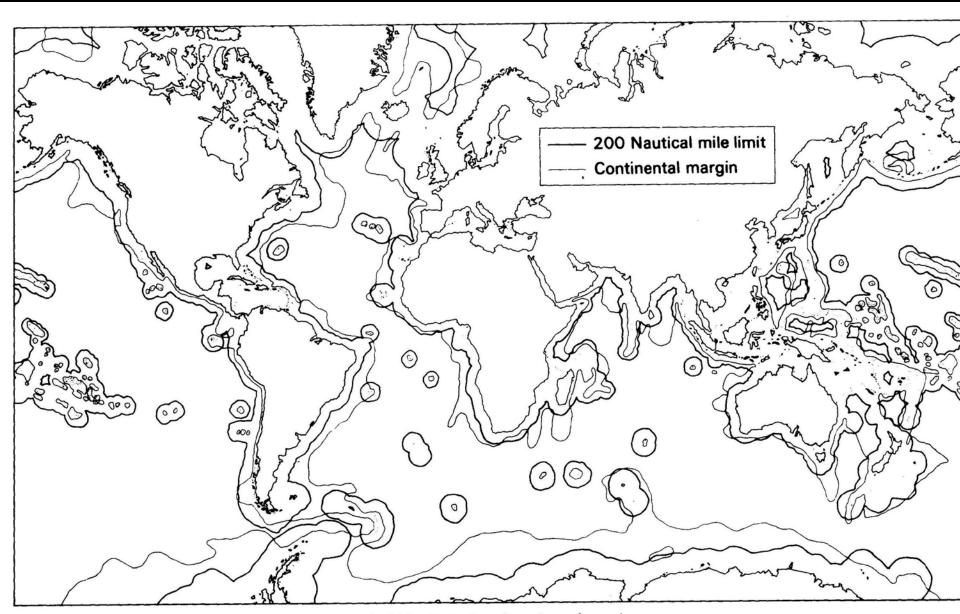
Today's Presentation

- Legal Regime of Areas beyond National Jurisdiction
- Some current practice on establishment of MPAs in ABNJ
- Case Study: Sargasso Sea as a Case
 - Threats
 - Possible protection measures

Marine Areas Beyond National Jurisdiction

- Nearly 50% of Planet's surface
- Increasing human impact on Areas beyond National Jurisdiction
 - Increased intensity of existing activities
 - New activities
- BUT no comprehensive governance framework for ABNJ
- International Seabed Authority has jurisdiction ONLY over non-living resources in ABNJ

200 nm limits/continental margins



The 200-mile limit and continental margin

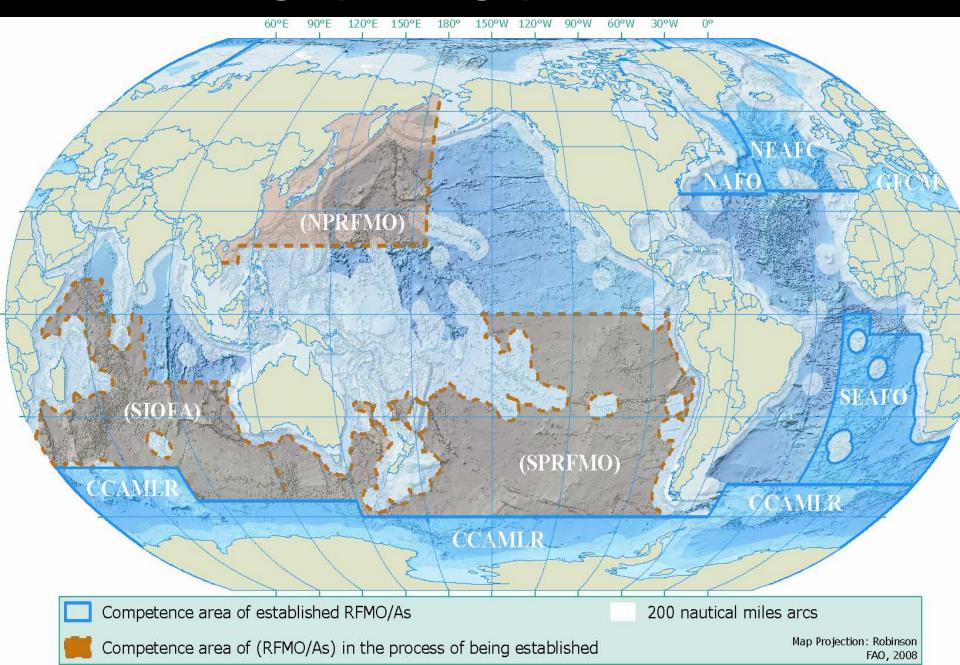
Weaknesses of current governance in ABNJ

- Poor implementation
- Uncoordinated rulemaking
- Weak enforcement provisions
- Many unregulated activities
- Geographic gaps



Photography by LSPH Damian Pawle

Geographical gaps: 2010



Regional Seas Agreements

Only cover areas within national jurisdiction, other than:

- Northeast Atlantic
- Mediterranean
- South Pacific high seas donut holes, and
- Southern Ocean

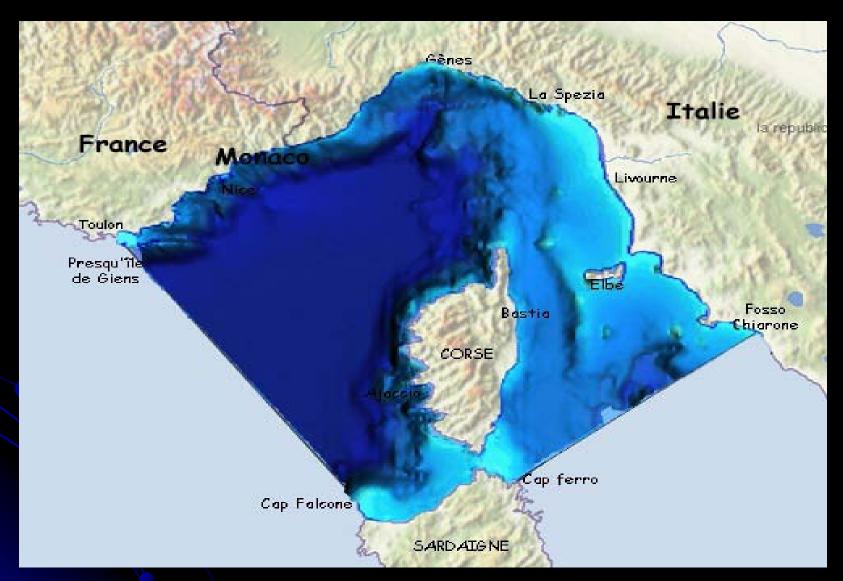


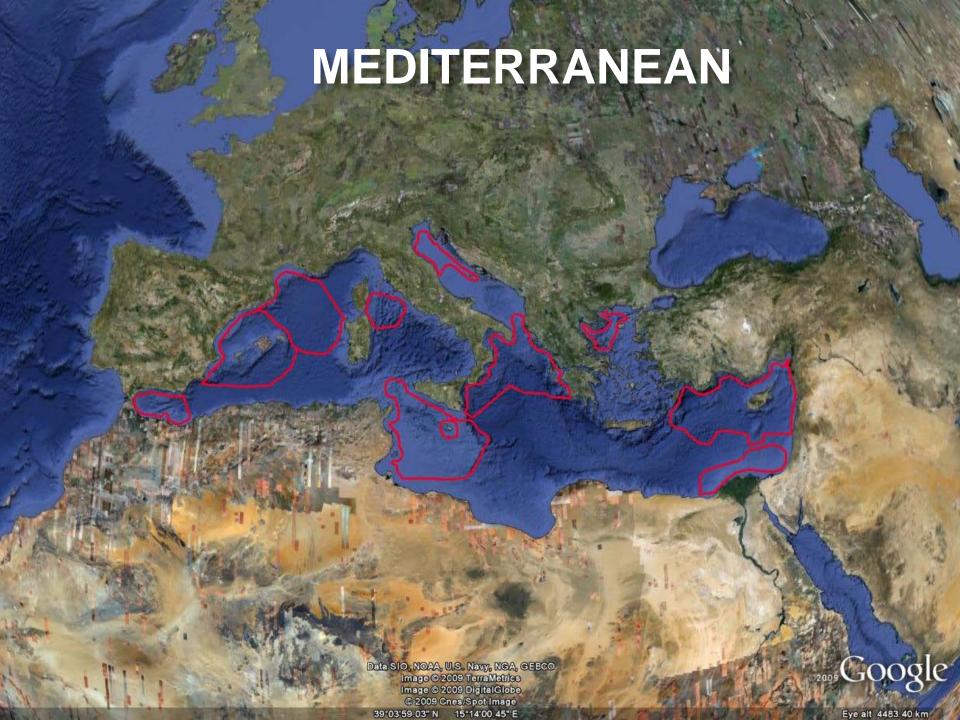


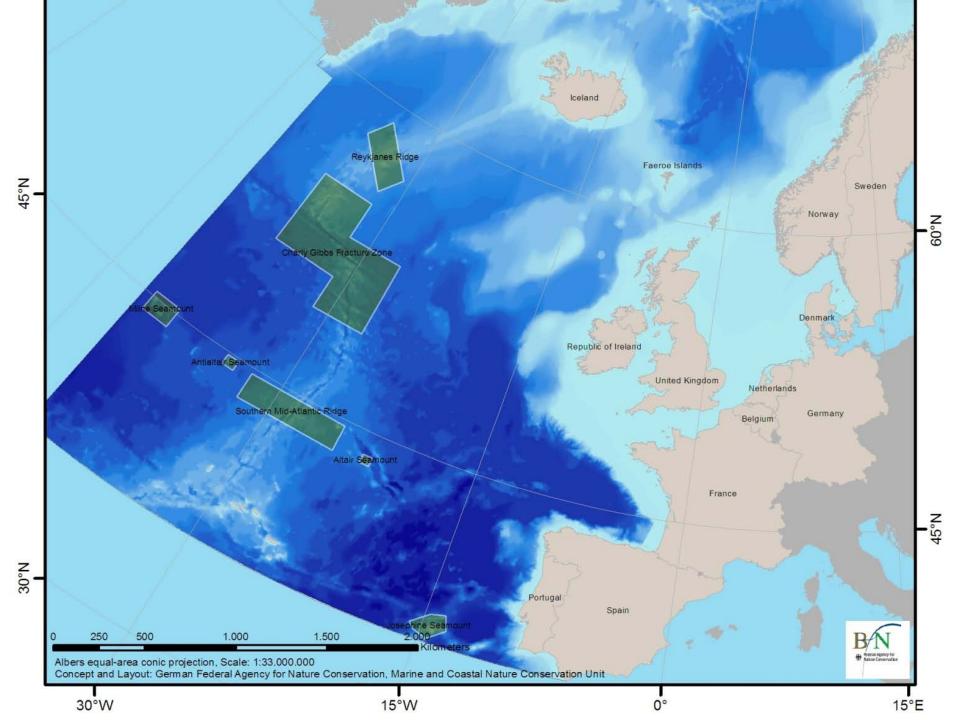
West to East: North-East Pacific South-East Pacific Wider Caribbean West & Central Africa Mediterranean Black Sea Eastern Africa Red Sea & Gulf of Aden ROPME Sea Area South Asian Seas East Asian Seas North-West Pacific Partner programmes: Arctic North-East Atlantic Baltic Sea Caspian Sea Antarctic

Existing ABNJ MPAs The Pragmatic Approach

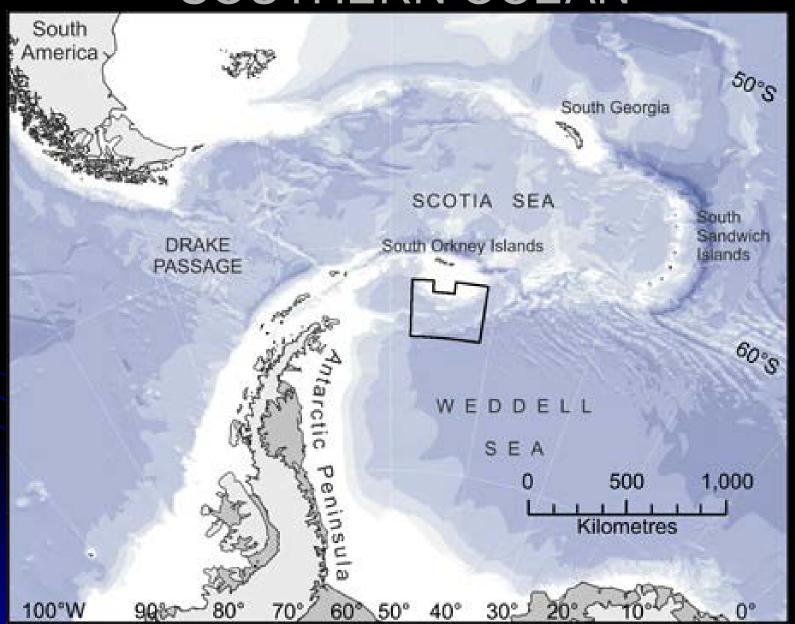
MEDITERRANEAN





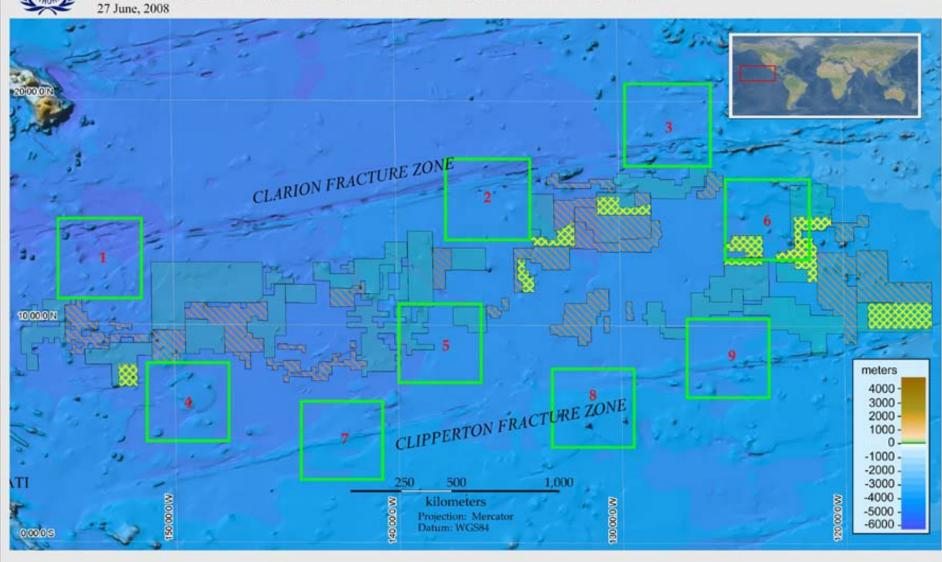


SOUTHERN OCEAN



INTERNATIONAL SEABED AUTHORITY

POTENTIAL PRESERVATION REFERENCE ZONES IN THE CLARION-CLIPPERTON FRACTURE ZONE MAP 3: PROPOSED PRZs ROTATED AND SHIFTED (EXCEPT ZONE 5 AND 6)



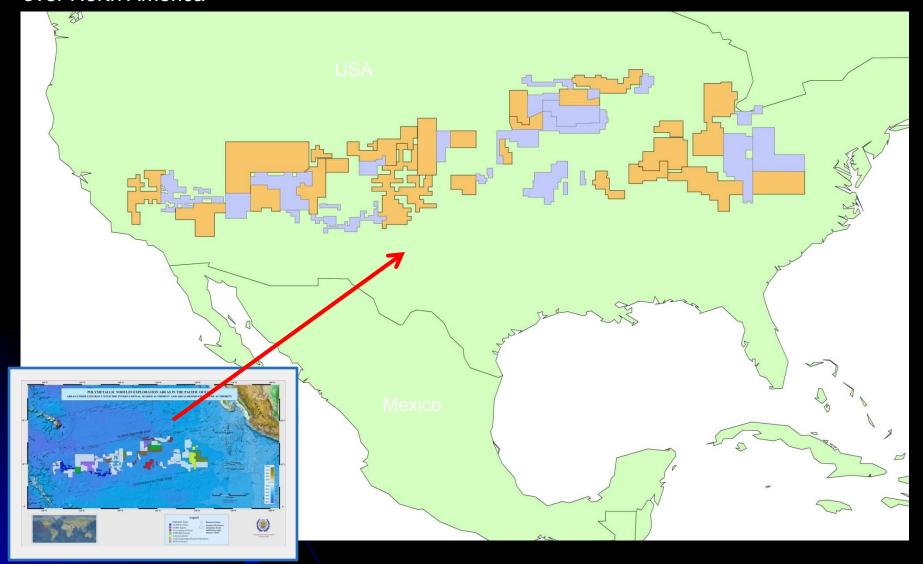
Contractor Area

Reserved Area

Area under Application for Exploration

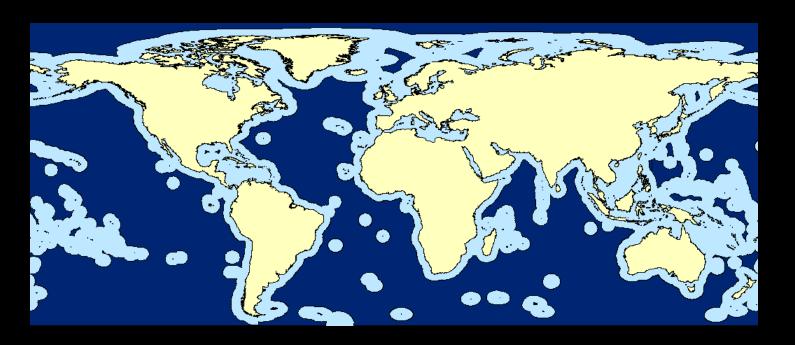
Proposed Reference Impact Zone

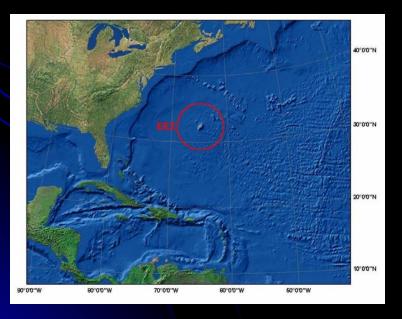
Indicative area comparison I: Polymetallic nodules exploration areas under contract with the Authority (blue) and areas reserved for the Authority (orange) in the Pacific Ocean shifted over North America



The Sargasso Sea

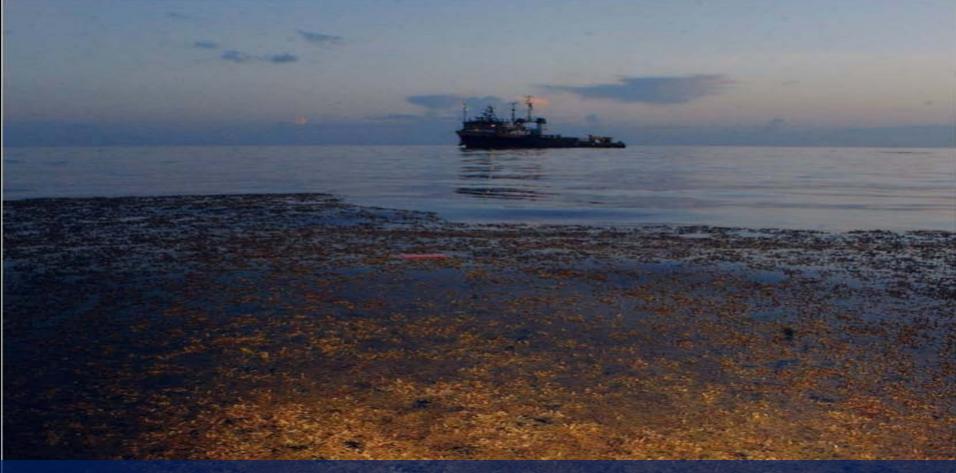






Bermuda EEZ = 663,036 sq km or 256,000 sq. miles

Sargasso Sea = ~ 5 179 976 sq km or 2 million sq. miles



- Unique open-ocean sargassum-based ecosystem
- Important for life history of many species (eels, turtles, tuna, billfish, sharks, etc.)
- Needs international cooperation to secure its protection



Habitat for Endangered Sea Turtles



From Karen Eckert & Arlo Hemphill

Essential nursery habitat for juvenile fishes



Southern Hake, Urophycis floridana



Rough Triggerfish,

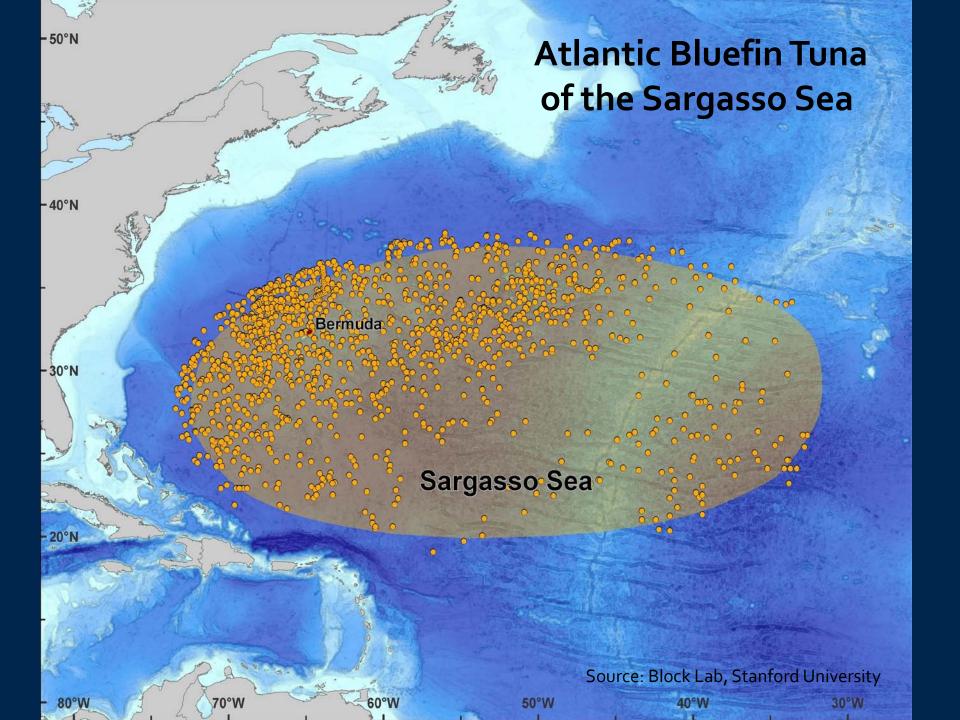
Canthidermis maculatus



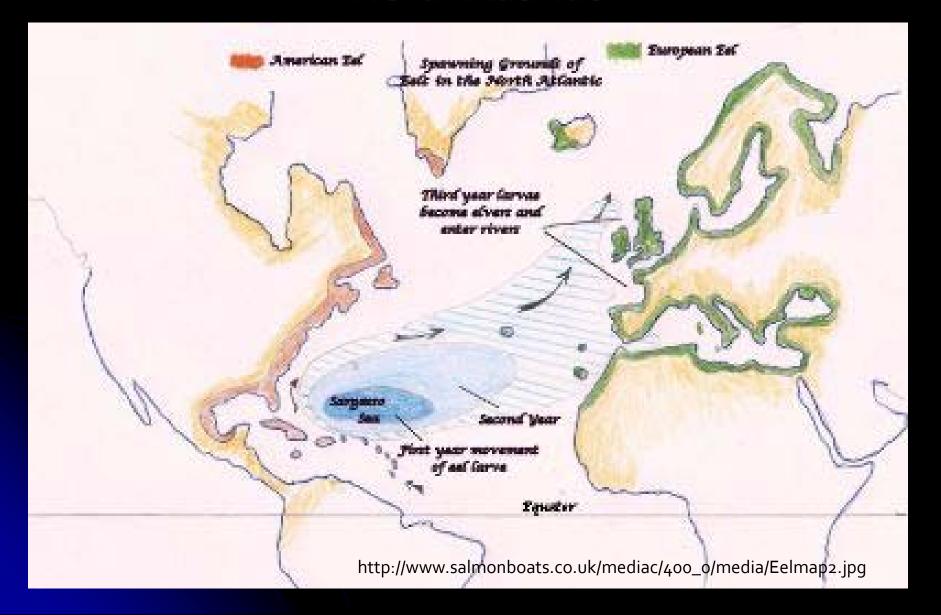
Balloonfish,

Diodon holocanthus

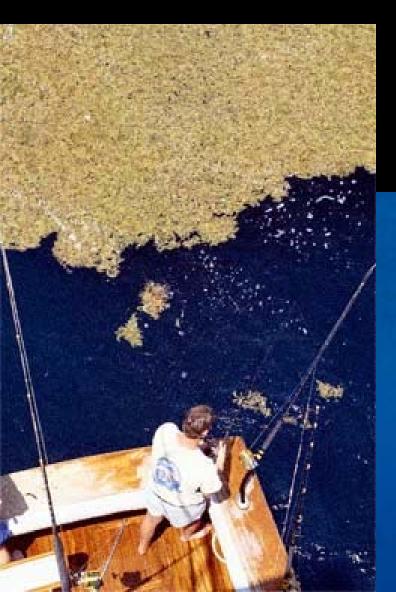




Historical home range of eels spawning in North Atlantic



Habitat for game fish







Threats

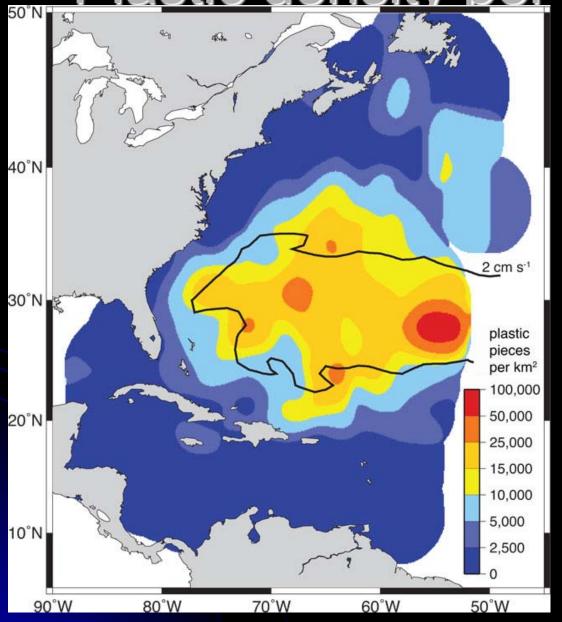
- Garbage and plastics from ships, boats and land
- Oil from vessel discharges (and spills)
- Negative impacts of fishing eg bycatch and habitat impacts
- Extraction of Sargassum
- Exotic species introduction from ballast waters
- Climate change and ocean acidification







Plastic density per km²

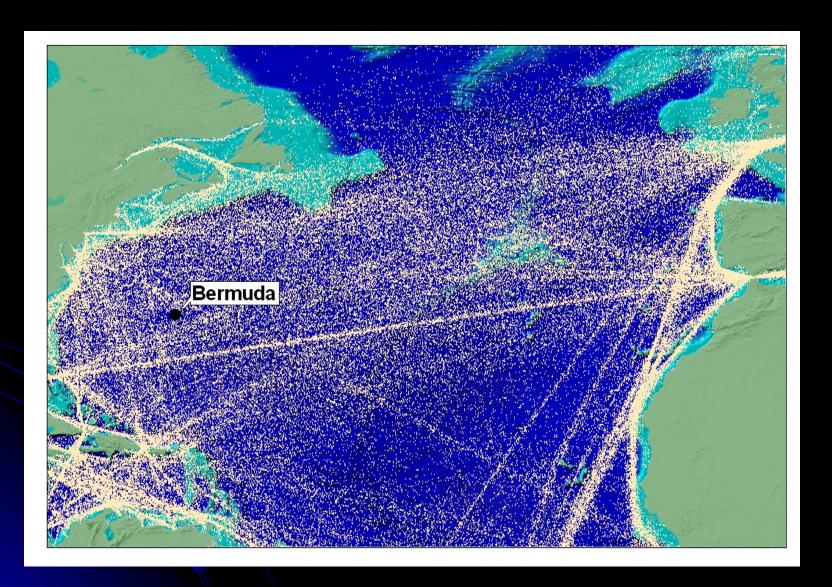


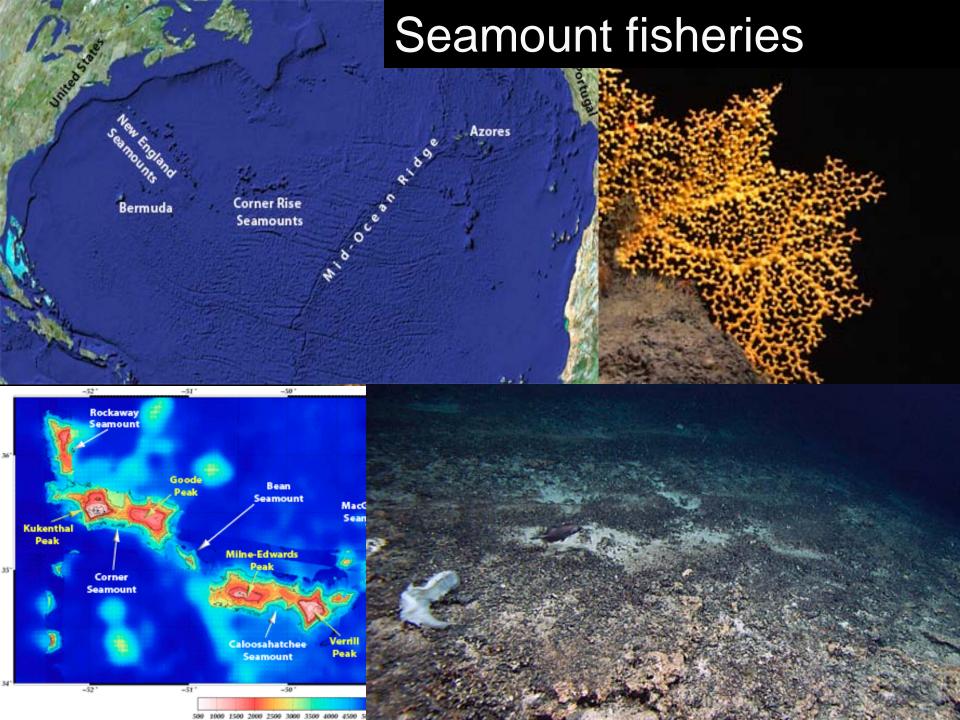
Sea Education Association, Oceanus Magazine

Collateral impacts of fishing



Regional marine traffic patterns





Aims of the Sargasso Sea Alliance

With a range of international partners – led by Government of Bermuda

- Gain international recognition of the importance of the Sargasso Sea ecosystem and widespread understanding of its value within the greater temperate/sub-tropical North Atlantic ecosystem.
- Use existing sectoral organisations with relevant competences and encourage them to adopt new protection measures in accordance with the 1982 Law of the Sea Convention
- Use this as an important 'learning by doing' experience which can be replicated elsewhere

Pragmatic Strategy

- Shipping threats through IMO
 - Particularly Sensitive Sea Area designation
 - With associated protection measures
- Seabed Mining threats through International Seabed Authority
- Fishing threats/Sargassum extraction through fisheries bodies
 - ICCAT; NAFO; maybe NEAFC
- Maybe wildlife conventions
 - CMS

A healthy Sargasso Sea is a leap towards a healthy ocean



Acknowledments: SA McKenna, KM. Gjerde, A. Hemphill, F.W. Ming, P.M. Rouja, T. Trott, J. Ardron, L. Cassiani, B. Causey, E. Charles, S.A. Earle, D. Freestone, D. Laffoley, M. von Lindenfels, C. Nugent, H. Roe, D. Tladi, T. Tucker, C. Vick, A. Rulska- Domino