Pelagic ecosystem service assessments can reveal an underappreciated source of ocean wealth

Vera Agostini, The Nature Conservancy Lida Teneva, Conservation International



Value of the ocean

Direct outputs from the ocean: \$6.9 T

Trade and transport: \$5.2 T

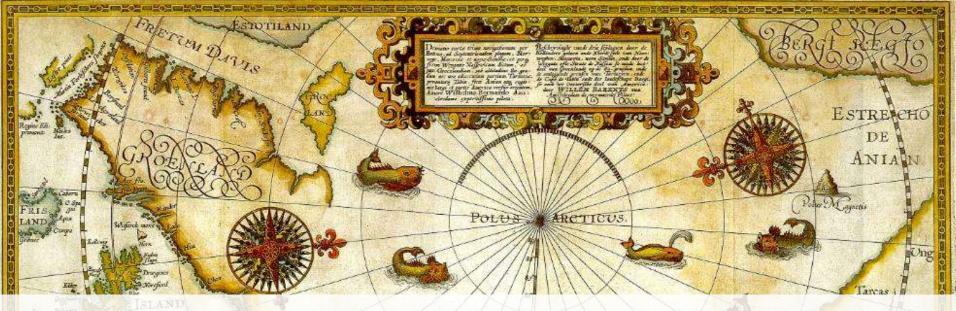
Adjacent assets: \$12.1 T

TOTAL:

WWF, Reviving the Ocean Economy, 2015.

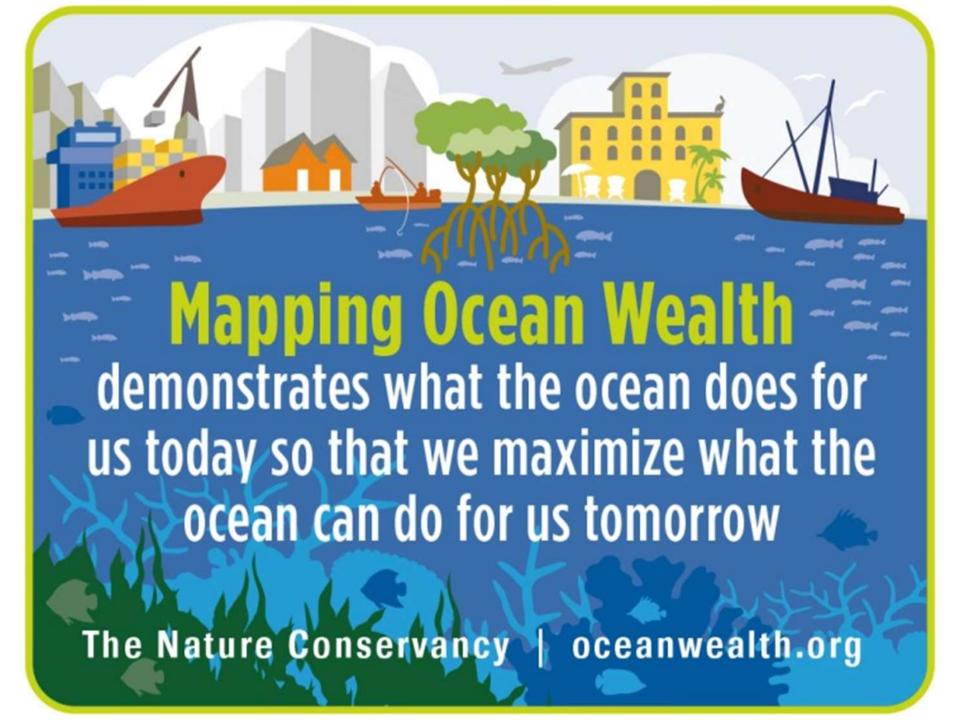
\$24.2 T

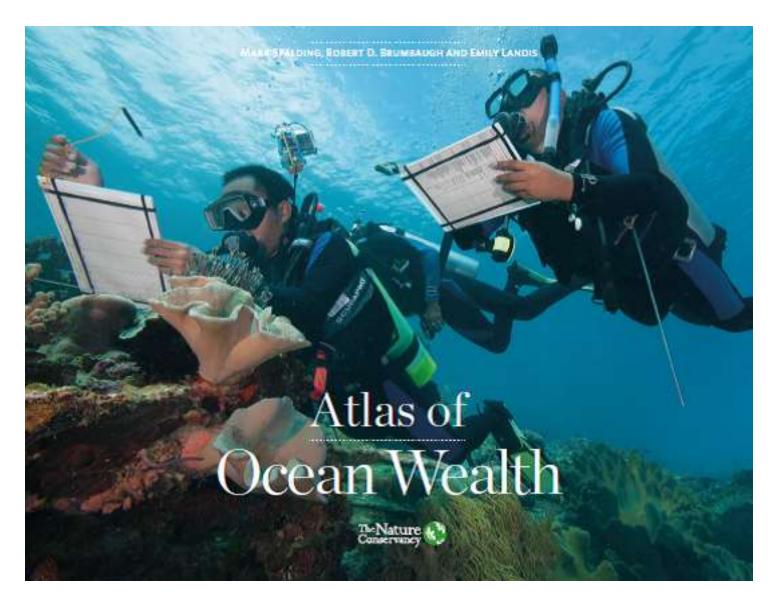




WHERE IS THE OCEAN'S VALUE FOUND?

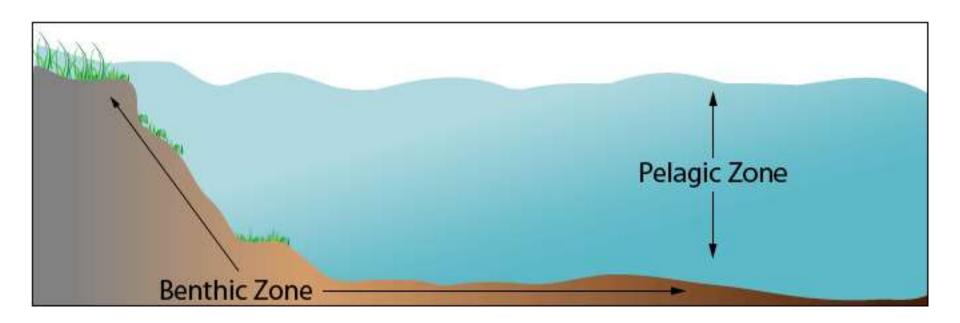






http://oceanwealth.org/atlasmaps.oceanwealth.org

What is pelagic



PROVISIONING



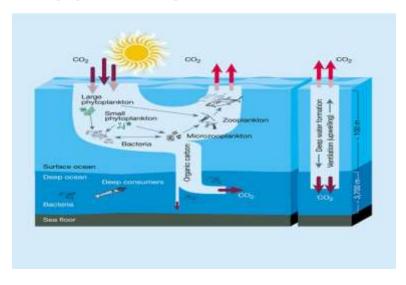
CULTURAL



SUPPORTING



REGULATING









HUMAN ACTIVITY & BLUE ECONOMY SOARING







Threats to services

- Putting too much in:
 - Nutrient, plastic, toxic waste, carbon pollution

- Taking too much out:
 - Overfishing, habitat destruction



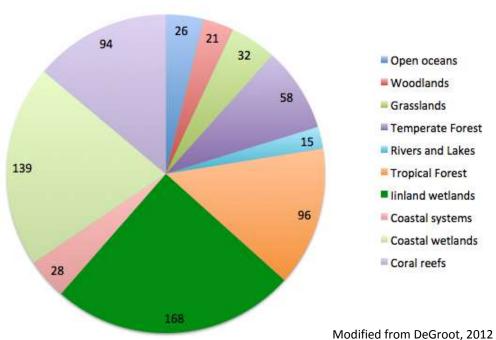
"I don't know why I don't care about the bottom of the ocean, but I don't."

Challenges: Limited Data

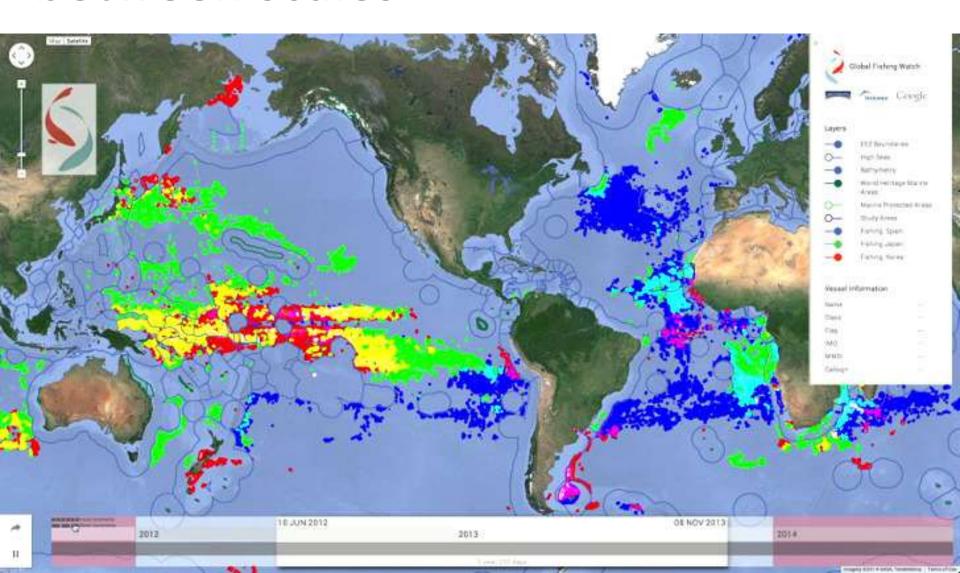
70% area

4% research

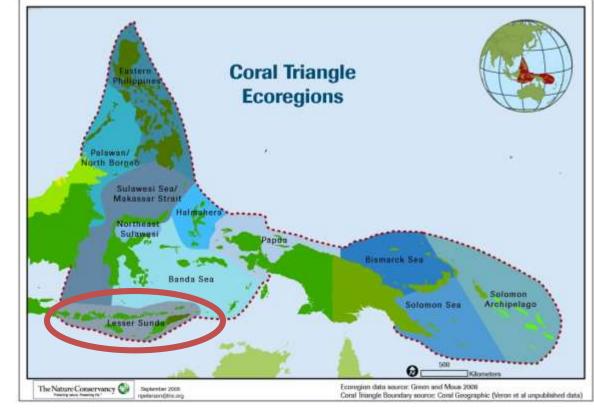




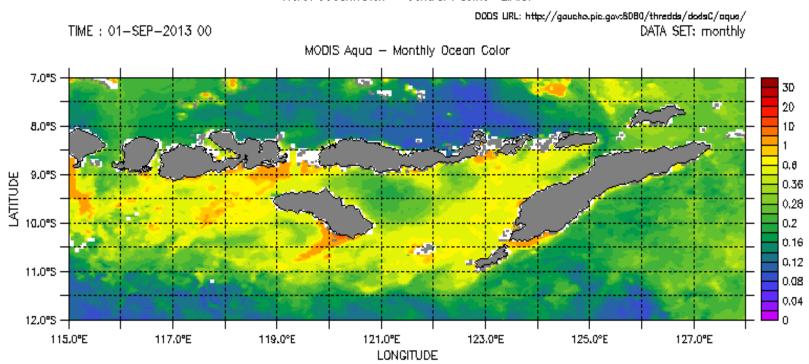
Challenges: limited tools, mismatch between scales





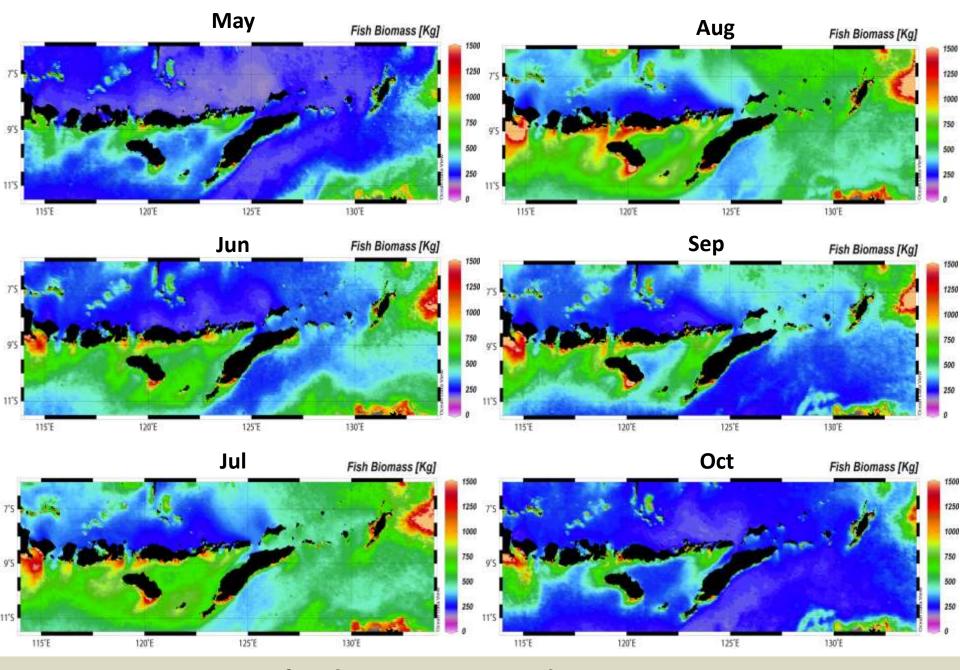


NOAA OceanWatch - Central Pacific L.A.S.



Chlorophyll-a Concentration (Milligrams per cubic meter)

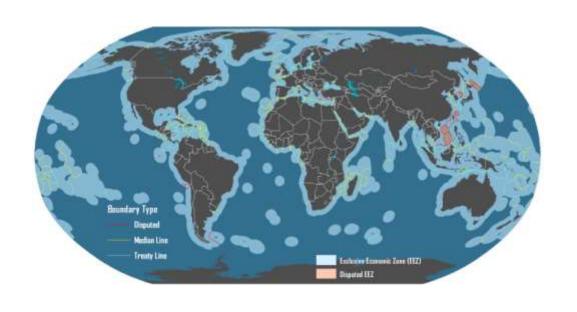




Mean of Fish Biomass Distribution 2004-2014

Governance examples















HUMAN ACTIVITY & BLUE ECONOMY SOARING

We need to ensure that conservation has a voice in ocean and coastal development to place oceans on a sustainable path.









"The open ocean is at the top of my environmental concerns, and it should be for you, too!"

