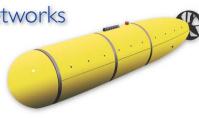




Understanding a changing water planet:

Building the new automated ocean sensor networks

Oscar Schofield
Rutgers University's Coastal Ocean Observation Lab
(RU COOL) http://rucool.marine.rutgers.edu









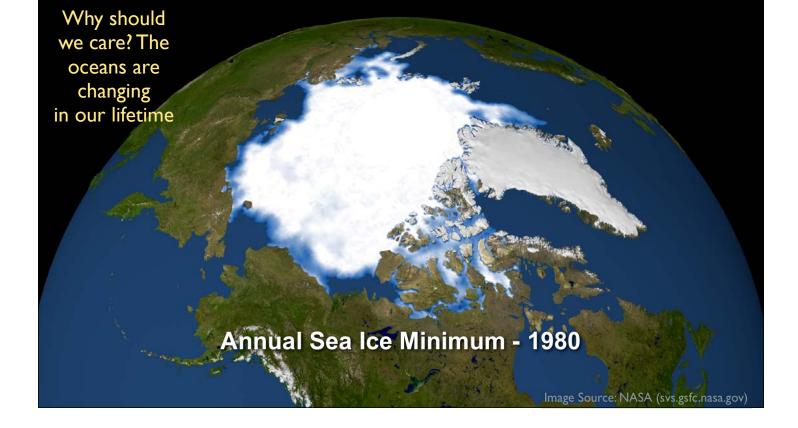


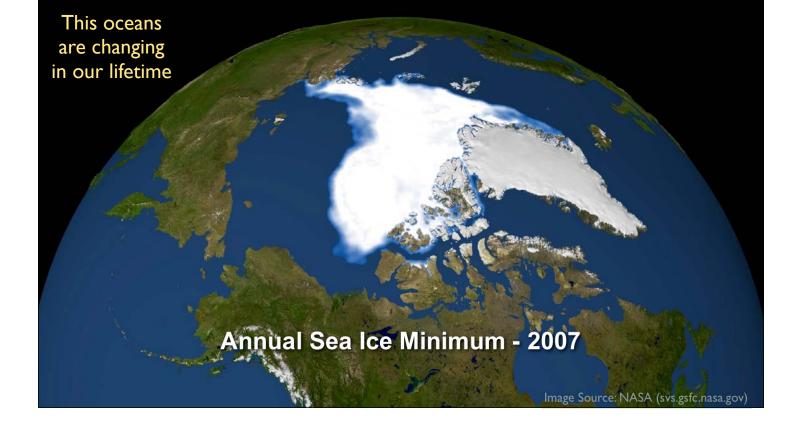


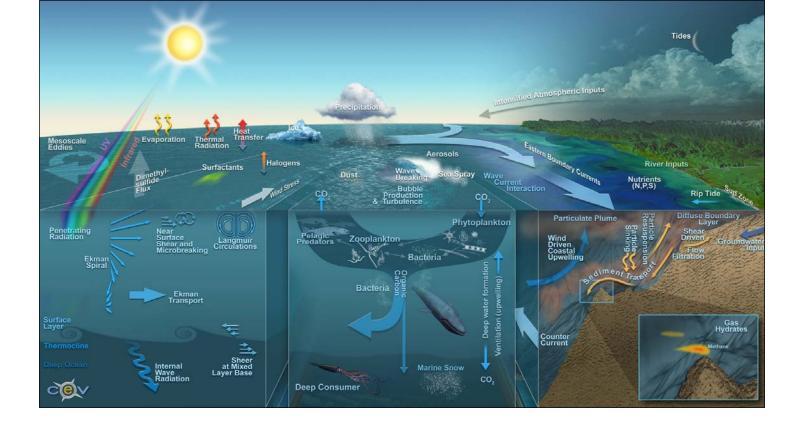


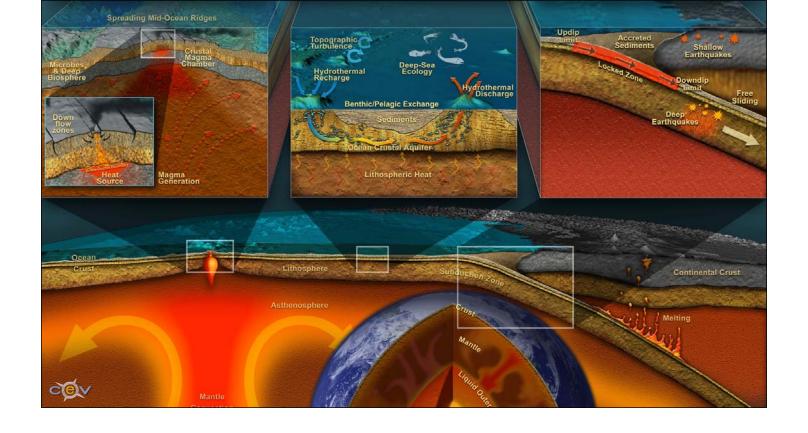
















Unfortunately this is how we have studied the oceans for centuries







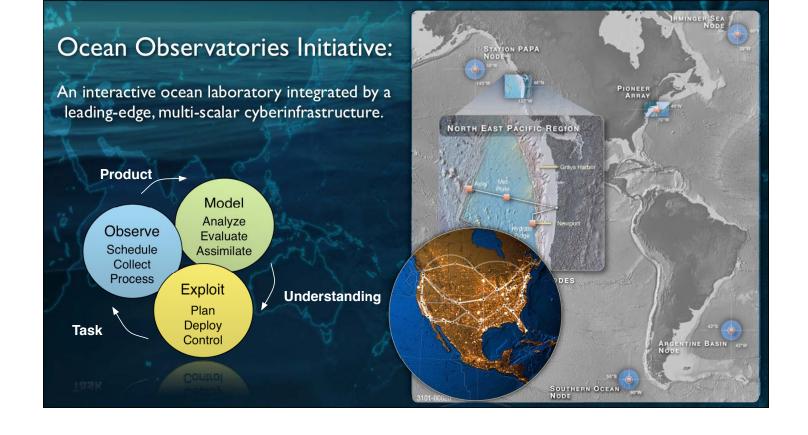






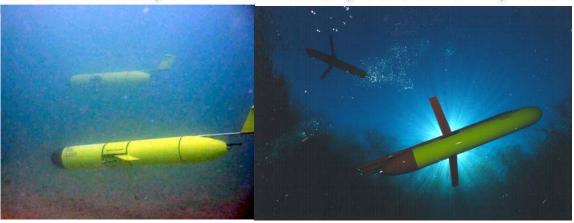








Interact remotely with observatory sensors and platforms



























































Collaborate with others in virtual labs to analyze and model data, test ideas and modify the observatory









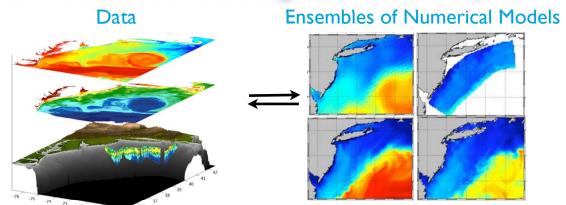








Run models within the integrated observatory network

































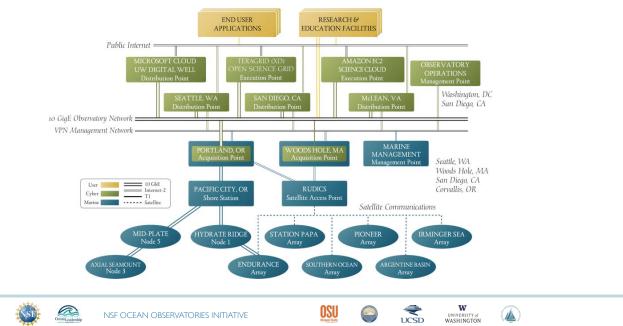








CI Network Deployment







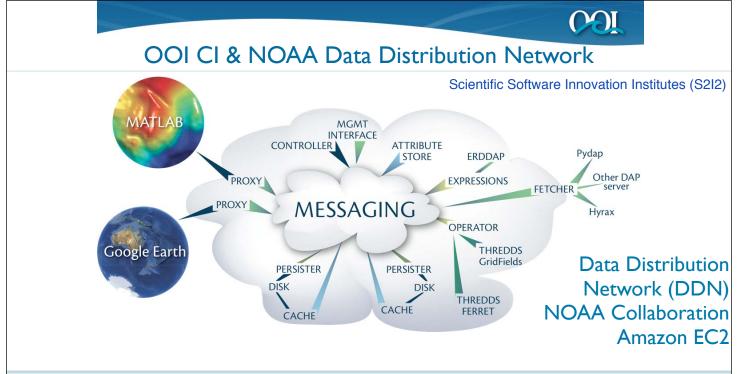
NSF OCEAN OBSERVATORIES INITIATIVE















NSF OCEAN OBSERVATORIES INITIATIVE





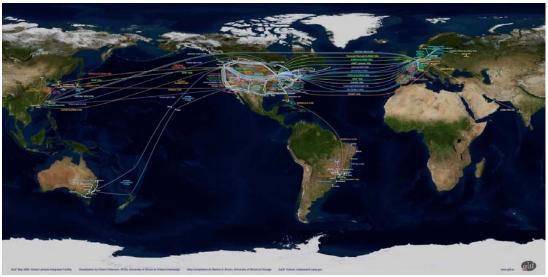








A Networked Ocean World with International Research & Academic Partners







NSF OCEAN OBSERVATORIES INITIATIVE









Ocean Observatories Initiative (OOI) will

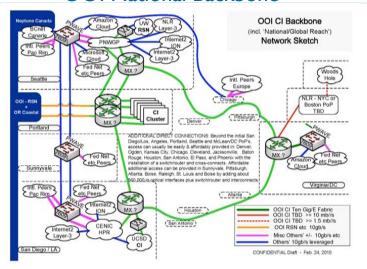
To launch an era of scientific discovery across and within the ocean basins, utilizing widely accessible, scalable, interactive sensor networks

It will allow anyone to be an oceanographer

The cloud provides the distirbuted capacity to allow the dream to become reality



Illustrative Implementation or OOI National Backbone













₹ UCSD



