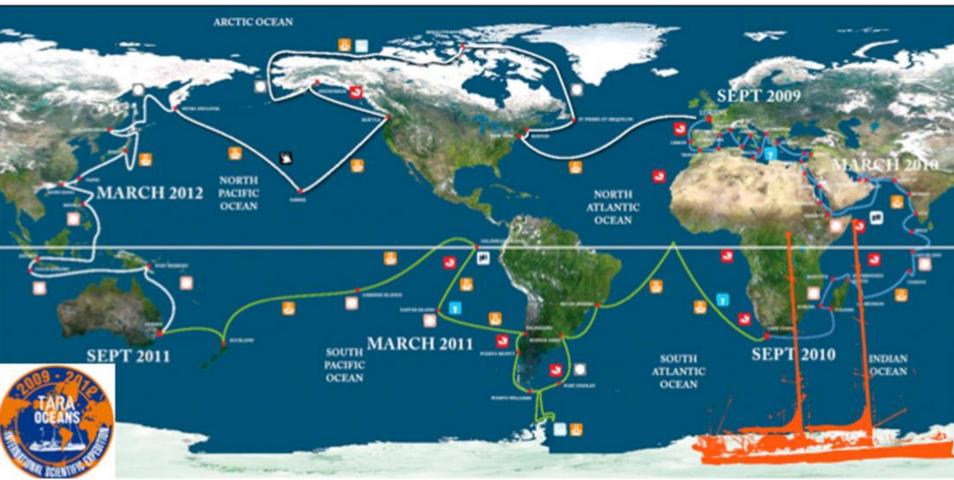


opencloud

Discovery Environment



Our Community: Studying Global Oceans Systematically



Integrating viruses, bacteria, archaea, protists, metazoans Interweaving genomics, optics, physiochemical, satellite

Our Challenges: the Global Study of Microbes

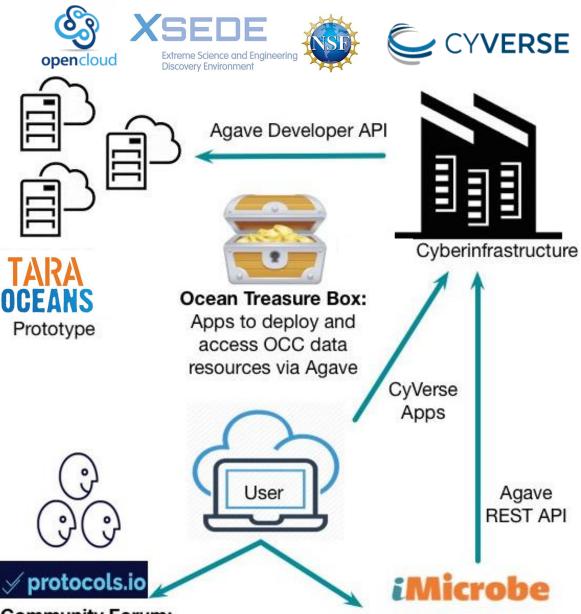
Integrate large-scale –omics, optic, & satellite datasets

Interlink physiochemical and environmental context

Examine temporal & spatial scales across ecosystems

Cooperate among disciplines to harmonize data

Maintain sampling and analysis protocols & provenance



Our Approach:



Community Forum: protocols and virtual discussion forum

*i*Microbe

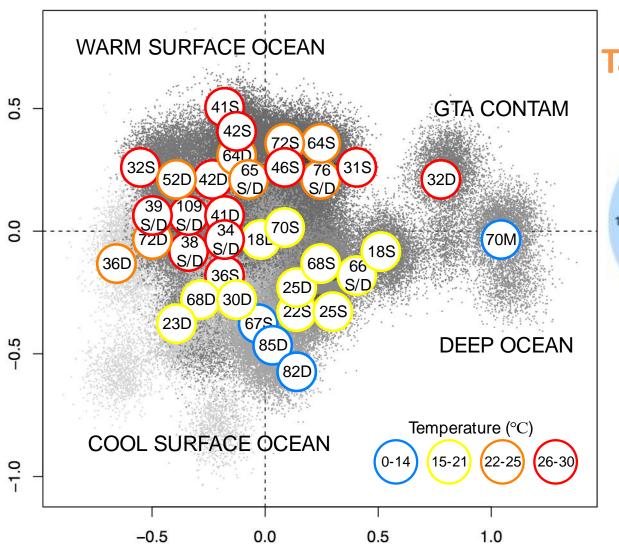
Agave

Data Staging:

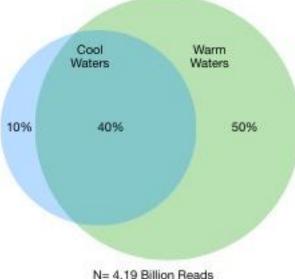
Raw 'omics data commons and search interface

New Capability:

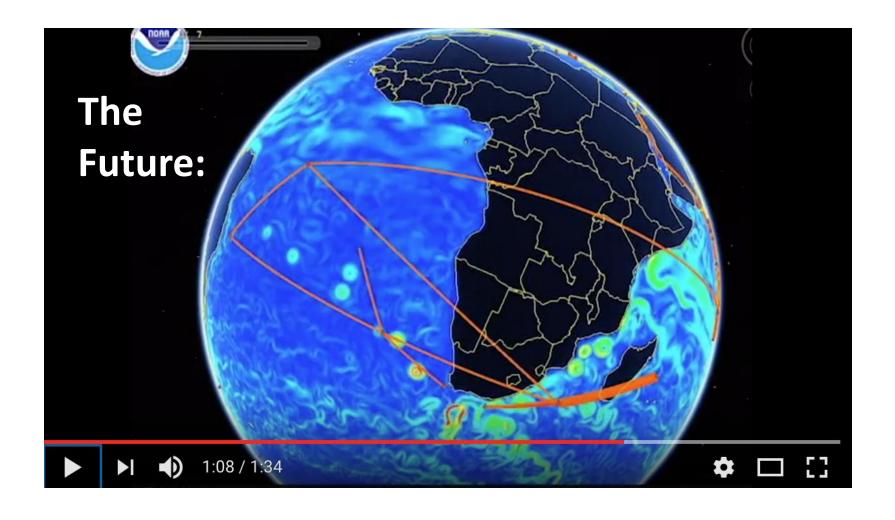
Infrastructure for Scalable Comparison of Global 'Omics Data



Tara Ocean Viromes



Processing time: 1 day; 12 nodes



Data Clouds: scalable science

Community Tools & Compute: enhanced reproducibility

Value: global patterns in microbial ecology

Improving our Game

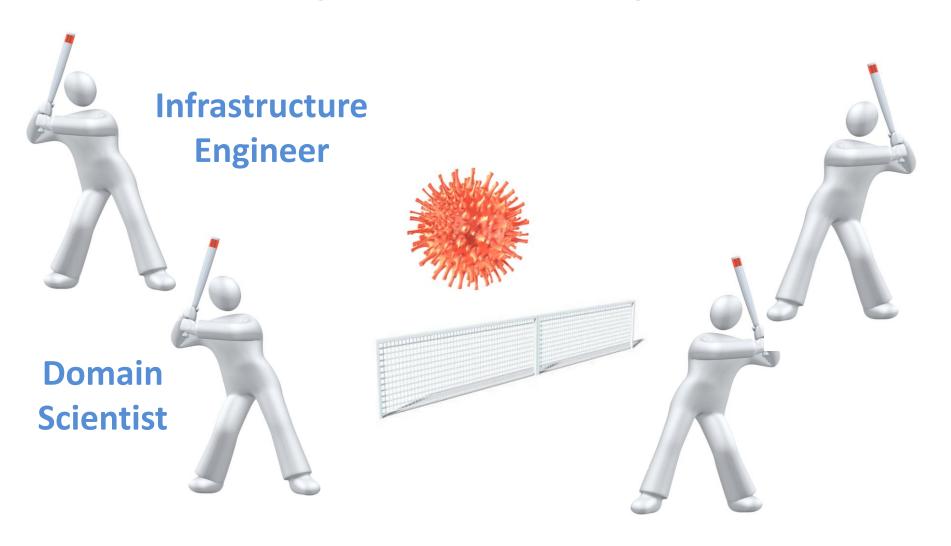


Good news: we are playing the same game



Bad news: still on different sides, reacting to each other's shots

Couples Tennis Anyone?



Team 1 Team 2