From environment, to base pairs, to ocean science and geobiology: Defining the tools and technologies for an interoperable environmental ‘omics cyberinfrastructure.

**Mission Statement:** Identify community needs and develop necessary plans to create a federated cyberinfrastructure to enable ocean and geobiology environmental ‘omics.

### Key Goals

<table>
<thead>
<tr>
<th>Workshop #1</th>
<th>Workshop #2</th>
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<tbody>
<tr>
<td>Identify practical solutions and key resources</td>
<td>Implementation &amp; training within EarthCube</td>
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<tr>
<td>University of Hawai‘i Aug 2015</td>
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#### Establishing ECOGEO as a Research Coordination Network

**Community survey and monthly ECOGEO steering committee meetings**
- Formed ECOGEO Ocean-Geobiology Science Team and Tech-Cyberinfrastructure Team
- Discussed needs/challenges as framework for ECOGEO’s focus and goals
- Active development of resources to be vetted by community during Aug 2015 workshop
  - e.g., CINERGI Resource Viewer & EarthCube-formatted Use-Cases

**Extensive involvement in EarthCube Governance and Funded Projects**
- Jan 2015: Check and Adjust, Tucson AZ
- Mar 2015: CINERGI workshop, San Diego CA
- Mar 2015: Vision and Scope, Berkeley CA
- April 2015: Tech Hands, Berkeley CA

#### Looking Forward

**Workshop #1:** Attendees and agenda are balanced between Science & Tech/CI, reflecting the community’s goals for identifying common drivers, best practices, standards, and on-going challenges, including gaps in existing EarthCube CI.

**Between workshops,** we will begin to develop a framework for identified resources and solutions.

**Workshop #2:** Focus will be on resource integration, implementation, and training through use-cases and webinars.

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**Domain Science**
- Oceanography, Geobiology, Bioinformatics

**Standards**
- Genome Standard Consortium, MiXs, BCO-DMO

**Databases**
- IMG/M, MG-RAST, iPlant, NCBI, K-Base, BCO-DMO

**Environmental ‘Omics**

**Best Practices**
- Metadata, Workflows, Interoperability

**Stable Platform**
- Expanded data queries, analysis tools

**Analysis Tools**
- Visualization, Statistics

**Resource Viewer**
- Use-Cases & Webinars

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