The OOI Ocean Education Portal: Enabling the Development of Online Data Investigations

1) Educational Visualization Tools
The site provides an extensible framework for delivering flexible and customizable visualization tools for use by educators and students.

- A collection of interactive visualization tools that allow you to explore and analyze OOI datasets
- An online interface to customize visualization tools to meet specific educational goals
- The ability to embed custom instances on third-party web pages
- A searchable library of visualizations created by others

Visualization Tool Design Philosophy
- Simple – Intuitive & easy to use
- Interactive – To support deeper understanding
- Customizable – Adaptable to fit your learning goals
- Embeddable – Place them in context within your lessons
- Focused – Learning outcome driven, not data driven – these are not your typical comprehensive complex data exploration tools
- Educational – Primary goal is to aid students’ analysis and understanding of scientific processes, not dealing with data formats and graphing

How can you contribute?
- Use the provided visualization tools to create custom visualization instances that highlight notable events and phenomena in the data that would like students to explore.
- Do you know Javascript? You can work with the OOI Education team to create a new visualization tool that others can use to interact with OOI or any other dataset available via web services.

2) Concept Map Builder
A Concept Map is a conceptual diagram used to graphically visualize the relationships between individual concepts. The OOI Concept Map Builder allows you to create your own concept maps to share.

How can I use concept maps in my teaching?
- Create maps to visualize your lecture content or course curriculum
- Have students create their own maps to demonstrate how they have synthesized learned information
- Have students create maps before and after learning a topic to help them understand how their knowledge has changed
- Have students use maps to plan and present group projects

OOI Vocabulary Navigator
The interactive Vocabulary Navigator allows you to explore OOI science, sites, platforms, instruments, and data products. These maps can then be imported into other maps you create.

Get Started Today!
The OOI Education Portal is now live. We invite you to log onto the site, play with the tools, create your own resources, and let us know what you think.

For more information, please contact sage@marine.rutgers.edu

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