





OE Program Overview


-

History and Evolution

What is Ocean Exploration?

The first step in the process of ocean exploration is to determine what you want to know. This is done by developing a research plan that outlines the objectives of the exploration and the methods that will be used to collect data. The next step is to design and build the exploration vehicle, which is then deployed to the ocean. The final step is to analyze the data collected and report the results.

– David M Wilson, polar historian, 2012







Ocean Exploration Program Review – May 7-8, 2012

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– President's Panel Report on Ocean Exploration, 2000

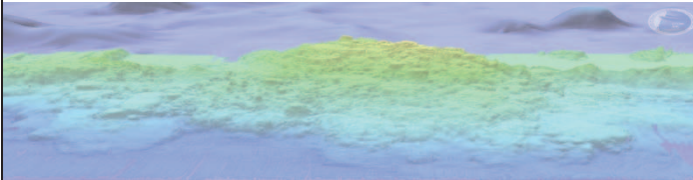





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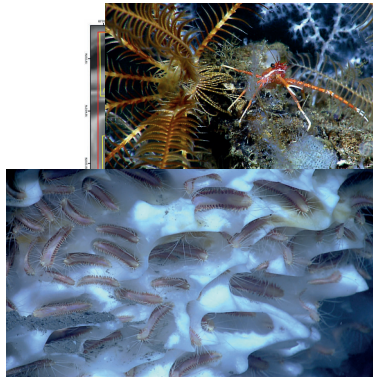




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Outcomes - Results

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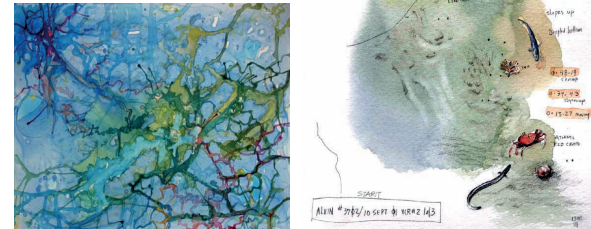


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Outcomes - Results

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President's Panel Report – Program Attributes

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H.M.S. "Challenger."

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President's Panel Report – Program Attributes

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Ocean Exploration Program Review – May 7-8, 2012

President's Panel Report – Program Attributes

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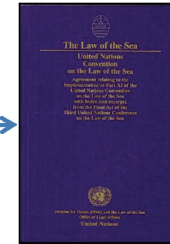
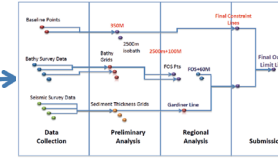
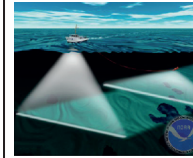


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President's Panel Report – Program Attributes

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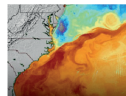


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Lesson 8 - Ocean Currents

Even the most casual observer is impressed by the swirl of tides or the march of waves against the shore. But few note the silent, subtle passage of currents. Yet the power of currents is unmatched. Currents are cohesive streams of seawater that circulate through the oceans. Some are short-lived and small, while others are vast flows that take centuries to complete a circuit of the globe. The Gulf Stream Current, which shows up in this temperature coded satellite image as a broad dark orange swath, has followed this course through the North Atlantic for millennia.

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Evolution of the Program

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The image is a composite of three panels. The top-left panel is a photograph of a shipwreck on the ocean floor, showing the hull and debris. The bottom-left panel is a close-up photograph of a deep-sea hydrothermal vent, showing a large, white, mineral-rich structure. The right panel is a map of the Atlantic Ocean, showing the coastline of North and South America, with various colored regions and lines indicating exploration routes and areas of interest.


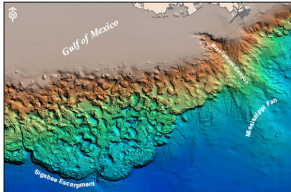
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Evolution of the Program

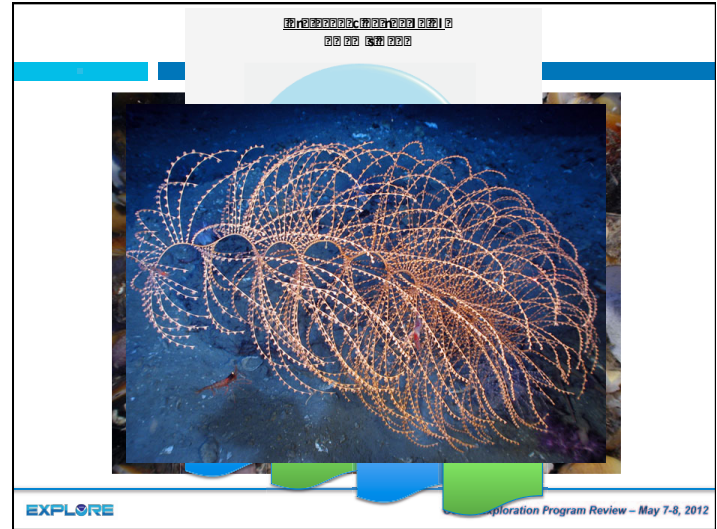
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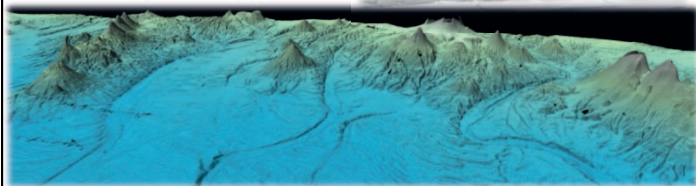
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Evolution of the Program

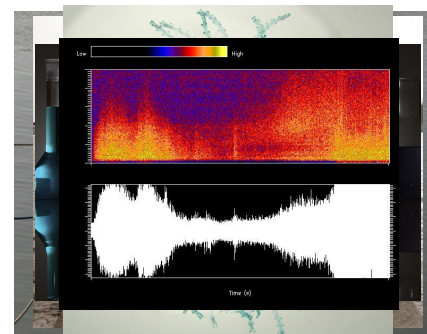
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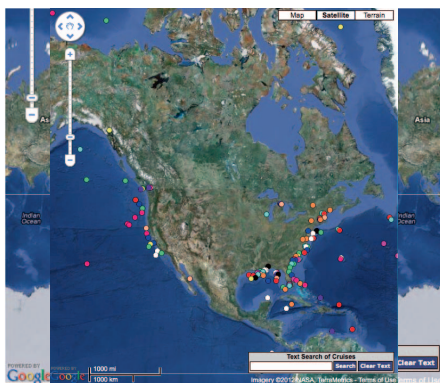
Scope and Diversity



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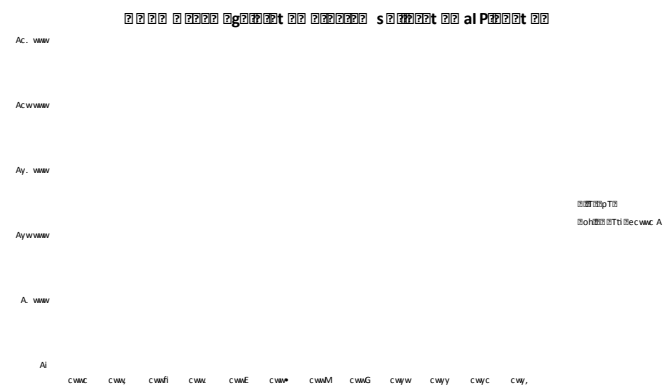
Geographic Distribution



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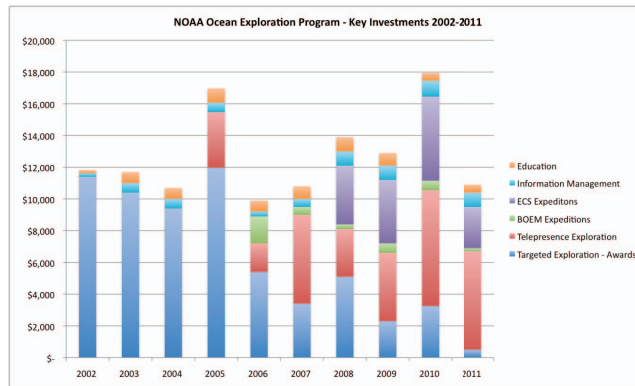
2002-2013 Funding Trends



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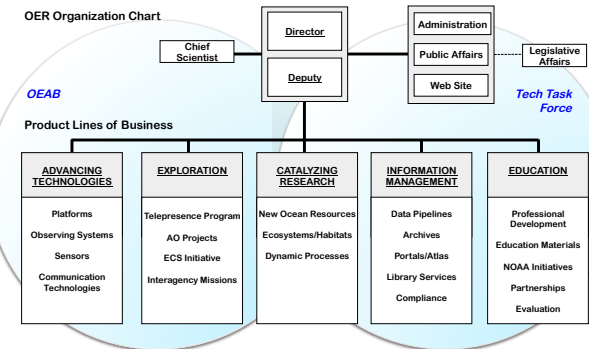
2002-2011 Key Investments



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Program Organization



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In Summary. . .

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Thoughts and Considerations

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