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1. 8.1: Resilient Coastal Communities and Economies

Release Date: 11-16-2011Open Date: 11-16-2011Due Date: 02-01-2012Close Date: 02-01-2012

DOC SBIR NOAA 2012-1 Unmanned Aerial System-Borne Gravimeter Development of Ocean and Coastal Renewable Energy Related Technologies Innovative Approaches to Facilitating Coastal and Marine Spatial Planning Processes Quantification of Green House Gas Fluxe ...

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2. 8.1.1R: Unmanned Aerial System-Borne Gravimeter

Release Date: 11-16-2011Open Date: 11-16-2011Due Date: 02-01-2012Close Date: 02-01-2012

The National Geodetic Survey (NGS) within NOS has a federal mandate to provide accurate positioning, including heights, to all federal non-military mapping activities in the USA. The NOAA NGS leads the GRAV-D Project (Gravity for the Redefinition of the American Vertical Datum) with a specific goal to model and monitor Earth’s geoid (a surface of the gravity field, very closely related to glob ...

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3. 8.1.2SG: Development of Ocean and Coastal Renewable Energy Related Technologies

Release Date: 11-16-2011Open Date: 11-16-2011Due Date: 02-01-2012Close Date: 02-01-2012

The ocean and coastal zones of the United States contain reserves of potential energy that have not yet been tapped to meet the increasing demands of an energy-hungry nation. Successfully tapping this energy will rely on more than just new energy harvest technologies – it will rely on the ability to site such projects in an environmentally sound way, and to assess the environmental impacts of s ...

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4. 8.1.3SG: Innovative Approaches to Facilitating Coastal and Marine Spatial Planning Processes

Release Date: 11-16-2011Open Date: 11-16-2011Due Date: 02-01-2012Close Date: 02-01-2012

The ocean and coastal zones of the United States are called upon to serve a variety of human purposes. As the number and complexity of human uses grows, conflicts arise. The Ocean Policy Task Force defines coastal and marine spatial planning as a comprehensive, adaptive, integrated, ecosystem-based, and transparent spatial planning process, based on sound science, for analyzing current and antic ...

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5. 8.1.4F: Quantification of Green House Gas Fluxes in Coastal Ecosystems

Release Date: 11-16-2011Open Date: 11-16-2011Due Date: 02-01-2012Close Date: 02-01-2012

Coastal wetlands, mangroves, and sea grasses sequester vast amounts of carbon in their plant material and sediments. These carbon sequestration and storage capabilities are important ecosystem services that if incorporated into management and planning can increase the protection and restoration of these habitats and allow for their inclusion in carbon markets. Key first steps to leverage carbon s ...

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6. 8.1.5N: Self Reporting GPS Tracked Bench Mark for Sensor Vertical Position

Release Date: 11-16-2011Open Date: 11-16-2011Due Date: 02-01-2012Close Date: 02-01-2012

At some point, with the advancements in GPS technology – accuracy, power, and unit size - the concept of a self-reporting bench mark could provide extreme cost savings and other efficiencies related to vertical stability. The bench mark could be stand-alone or incorporated into a sensor. One would think with proper timing, acquired knowledge of its surroundings (proximity to buildings, bridges, ...

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7. 8.1.6N: Enhanced Electrochemical Detection of Toxins in Water, Shellfish and

Fish Samples

Release Date: 11-16-2011Open Date: 11-16-2011Due Date: 02-01-2012Close Date: 02-01-2012

Toxins found in water, shellfish and fish threaten human health and result in significant economic losses. This is particularly true of the toxins produced by harmful algal blooms which are becoming more frequent. Consequently, there is a need for rapid, easy to use and inexpensive detection methodologies which allow resource managers, public health officials, aquaculturists, and commercial and re ...

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8. 8.1.7N: Robust HF Radar Tsunami Detection Software Development

Release Date: 11-16-2011Open Date: 11-16-2011Due Date: 02-01-2012Close Date: 02-01-2012

Although predicted 32 years ago, actual observations of the unique tsunami signature expected in HF radar data has only recently been confirmed for the first time with the March 2011 Japanese event. This was observed by several radars, both in Japan and on the U.S. West Coast. First-generation detection software based on highly idealized assumptions and simulations had been developed and offered c ...

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9. 8.2: Healthy Oceans

Release Date: 11-16-2011Open Date: 11-16-2011Due Date: 02-01-2012Close Date: 02-01-2012

DOC SBIR NOAA 2012-1 Zero-Reaction Manipulator-Handled Submersible Drill Rig High-Sensitivity/High-Precision Measurements of Calcium Concentrates in Seawater Improving environmental Sustainability and Competitiveness of US Marine Aquaculture Automated Ima ...

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10. 8.2.1R: Zero-Reaction Manipulator-Handled Submersible Drill Rig

Release Date: 11-16-2011Open Date: 11-16-2011Due Date: 02-01-2012Close Date: 02-01-2012

A recurring request from principal investigators using human occupied (HOV) and remotely operated (ROV) submersible vehicles is the ability to take a number of short core samples from rock outcrops. These cores would then be subjected to a number of analyses. Currently awarded projects researching drowned fossil coral reefs would benefit by taking core samples for dating and related analyses to ...

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