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Displaying 1 - 10 of 33 results

1. 8.1: Resilient Coastal Communities and Economies

   Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

   DOC DOC/NOAA SBIR NOAA-2014-1 Developing and Improving Commercial Marine Algal Culture in the United States Automated Vertical Reference Rapid Identification of Species and Origin in Processed Seafood 8.1 DOC DOC/NOAA SBIR NOAA-2014-1 ...

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2. 8.1.1F: Developing and Improving Commercial Marine Algal Culture in the United States

   Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

   Summary: We stand at a critical juncture in the development of marine aquaculture in the United States. The U.S. is a major consumer of aquaculture products – we import 91% of our seafood and half of that is from aquaculture – yet we are a minor producer. Algal products have a huge market worldwide, use energy from the sun, and can uptake excess nutrients, improving local water quality ...

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3. 8.1.2N: Automated Vertical Reference

   Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

   Summary: We are aware of research grade products yielding millimeter per year motions for dam deformation and continental drift. Others are able to generate dynamic vertical positioning on buoys to within 3-5 cm. Between these two ranges we believe there exist the capability to develop and operationally observe vertical stability (lack of change) at a sub-centimeter resolution. A small, easily-d ...

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4. 8.1.3SG: Rapid Identification of Species and Origin in Processed Seafood

   Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

   Summary: Seafood substitution is a significant form of seafood fraud, which can have negative economic and environmental impacts. While morphological identification of whole fish is relatively easy, the challenge arises when attempting to identify processed fish products, which have lost their distinctive morphological characteristics. Additionally, heavy processing may have denatured proteins and ...

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5. 8.2: Healthy Oceans

   Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date:

01-29-2014

DOC DOC/NOAA SBIR NOAA-2014-1 Development of System to Automate Analysis of Fisheries Information from Digital Stills Optimized CO2 Gas Sensor for Autonomous Measurement of Ocean Carbon 8.2 DOC DOC/NOAA SBIR NOAA-2014-1 ...

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**6.** 8.2.1F: Development of System to Automate Analysis of Fisheries Information from Digital Stills

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: Image recording systems are increasingly being used by the National Marine Fisheries Service (NMFS) for a multitude of applications. These systems collect aerial images of marine mammals, images of fish catch landed on the deck of vessels, as well as underwater images of fish from a variety of platforms including Remotely Operated Vehicles (ROVs), Autonomous Underwater Vehicles (AUVs) and ...

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**7.** 8.2.2R: Optimized CO2 Gas Sensor for Autonomous Measurement of Ocean Carbon

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: A full understanding of the ocean carbon budget is not currently possible due to a lack of seasonal and geographic coverage of ocean carbon measurements. In order to address this knowledge gap, there is a pressing need for expanded autonomous, in situ, ocean carbon monitoring. Ocean carbon instruments that use non-dispersive infrared gas analyzer (NDIR) technology have a well proven tra ...

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**8.** 8.3: Climate Adaptation and Mitigation

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

DOC DOC/NOAA SBIR NOAA-2014-1 Ultra-High Precision Measurements of Greenhouse Gas Stable Isotope Ratios 8.3 DOC DOC/NOAA SBIR NOAA-2014-1 ...

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**9.** 8.3.1R,C: Ultra-High Precision Measurements of Greenhouse Gas Stable Isotope Ratios

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

Summary: Atmospheric carbon dioxide (CO2) and methane (CH4) are the dominant contributors to global radiative forcing, and monitoring their concentrations is vital for understanding changes in Earth's climate. Interpreting variations of atmospheric CO2 and CH4 allow sources and sinks of carbon to be determined. Currently, ultra-high precision laboratory-based measurements for CO2 and CH4 usi ...

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## 10. 8.4: Weather-Ready Nation

Release Date: 11-13-2013Open Date: 11-13-2013Due Date: 01-29-2014Close Date: 01-29-2014

DOC DOC/NOAA SBIR NOAA-2014-1 Geospatial Database for Storm Risk Assessment Multi-Purpose Above Surface/Below Surface Expendable Dropsondes (MASED) New METSAT Display Service for Weather-Ready Nation Rip Current Sensor and Warning System Unmanned Aircraft ...

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- 1
- 2
- 3
- 4
- Next
- Last

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