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1. 8.1.4F: Aquaculture: Sustainable Marine Aquaculture

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

The purpose of this topic is to develop innovative products and services to support the development of an environmentally, socially, and economically sustainable marine aquaculture industry. There is a need for products and services that will allow the aquaculture industry to operate in a way that is compatible with healthy marine ecosystems and other users of coastal and ocean resources.

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2. 8.1.5F: Portable Device for Field-Based Forensic Genetic Identification of Wildlife Samples

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

The cornerstone for monitoring the take of animals and the trade of wildlife products is the ability to identify samples to species. This task becomes exceedingly difficult when presented only with a portion of an organism (e.g. shark fins, fish fillets). Modern genetic techniques can now readily identify species by comparing genetic sequences of an unknown sample to reference libraries (i.e. Barcode of Life Database). Though the technology to genetically identify samples is now readily available the required equipment is too cumbersome to readily transport and use in the field.

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3. 8.1.6F: Program for Estimating Whale Migration Statistics

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

The purpose of this topic is to develop an innovative product to support the population monitoring of specific whale populations and detect movements of large groups/pods of whales.

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4. 8.1.7F: Creation of an Incremental Recording Membrane for Tracking Ocean Chemistry

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

The purpose of this topic is to develop a chemically-sensitive membrane to enable characterization of large-scale distributions of small marine tetrapods during longdistance migrations.

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5. 8.1.8N: Improved Saxitoxin Detection Technology

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

Paralytic shellfish poisoning (PSP) is an important public health threat and causes significant economic losses in New England and along the entire west coast of the US including Alaska. Paralytic shellfish poisoning is caused by consuming shellfish that have bioaccumulated saxitoxins which are produced by certain microalgae. The field detection kits used to monitor PSP detect only some of many forms of saxitoxins known as congeners. These kits currently fail to detect important saxitoxin congeners that are toxic to humans and marine mammals.

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6. 8.2.1C: Calibration of the New Climate Forecast System (CFSv2) for Commercial Applications

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

NOAA seeks development of calibration methods that will lead to quantifiable improvement of the new version of the U.S. Climate Forecast System (CFSv2) model and thereby enhance its value in the private sector. All such methods developed in response to this Solicitation must be suitable for the ongoing calibration of the CFS forecasts by private sector firms in real-time operations.

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7. 8.2.2C: Climate Impact Visualization Tools for Planning and Outreach

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

Among the findings of the America’s Climate Choices Report on Adaptation is that Climate change is occurring… and poses significant risks for — and in many cases is already affecting — a broad range of human and natural systems. The authors of this report call for a new era of climate change science with fundamental, use-inspired research, which not only improves our understanding of the causes and consequences of climate change but also is useful to decision makers at the local, regional, national, and international levels acting to limit and adapt to climate change.

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8. 8.2.3C: Climate Decision-support Tools for the Energy and Insurance Sectors

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

Societal concerns about the impacts of climate change and variability are growing. Also, uses of climate data and services in the business sector and by the public are expanding. Citizens in public and private sectors require easy access to credible climate science information and climate services to help them make informed decisions affecting their lives and livelihoods. Climate influences almost every sector of society and affects up to 40 percent of the United States $10 trillion annual economy.

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9. 8.2.4C: Online Tools for Incorporating Climate Information into TV Weather Reports

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

A logical place to begin to address the public climate literacy problem is through the national network of local TV meteorologists' daily weather reports and forecasts. Research shows that the majority of Americans' largest single daily source of exposure to scientific information of any kind is through local TV weather reports.3 Thus, a goal for this year's SBIR call should be to innovative new tools and techniques for incorporating timely climate data and climate information services into TV meteorologists' nightly weather reports.

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10. 8.3.1R: Sensor for Measurement of Black Carbon from Balloons

Release Date: 01-01-2011Open Date: 01-20-2011Due Date: 04-01-2011Close Date: 04-01-2011

The objective of this subtopic is to develop an inexpensive, potentially disposable sensor for measuring Black Carbon (BC) aerosols in the atmosphere. The sensor will have sufficient analytical performance to yield useful data when carried on a balloon or dropped as a sonde from an aircraft. The sensor will report position coordinates and BC concentration in a format compatible with radiosonde telemetry.

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