

## **Project Idea / Partner Profile 5<sup>th</sup> Space Call in FP7**

In this proposal we plan to use remote sensing data from satellites and in-situ data from ships (automated CTD's attached to trawls) to map and forecast ocean conditions as well as distribution of target fish and plankton.

The work will be based on a Hydrodynamic Information System developed by several Universities and Institutes in collaboration with 5 fishing companies in Iceland. The Hydrodynamic Information System that will provide short term forecasts on surface and below-surface ocean conditions (wave height and lengths, temperature, salinity, strength and direction of currents at all depths) as well as location of high catch areas in the Icelandic/East Greenland region. The system is based on the high resolution three dimensional ocean model CODE ([www.marice.is/code](http://www.marice.is/code); 1 km horizontal and min 2.5 m vertical resolution, adaptive mesh design) and high resolution atmospheric forecasts from and [www.SARWeather.com](http://www.SARWeather.com)).

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