## Ocean Acidification and the Effects on Marine Trace Gas Production

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## **Project Overview**

- The project will examine the changes in trace gas concentrations in high CO<sub>2</sub> environments
- Water samples will be taken from the 2011 Bergen Mesocosm Study
- Gases to be analysed include a range of Halocarbons,
  DMS and DMSP
- Additional methods of Methyl Iodide trapping will be developed at UEA
- Samples will be trapped onto sorbent tubes for analysis in Bergen and later analysis at UEA.

## 2011 Mesocosm Experiment, Bergen, Norway



Core parameters measured by IFM-Geomar

- Carbonate Chemistry
- Temperature
- Wind Speed
- Nutrient Concentrations
- Phytoplankton Community Structure
- Water samples will be collected daily for trace gas analysis
- Samples will be analysed by GC-MS
- There is a potential for collecting samples from the gas phase for analysis on GC-TOF

