ANNUAL REPORT ON GEOTRACES ACTIVITIES IN NORWAY
MAY 2014 – JUNE 2015

Projects

- Ocean-Certain; An EU-funded project (http://oceancertain.eu/what-is-ocean-certain/) led by Murat Ardelan from the Norwegian University of Science and Technology (NTNU). Ocean-Certain is a multinational/multidisciplinary study with partners from eight European countries in additional to Chile and Australia. Activities for the past year include:
  i) Sampling and measurement of Fe and other nutrient trace metal during multi stressors mesocosm experiments in both Patagonia (october-november 2014) and Ny Aalesund-Arctic (June-July 2015)
  ii) Collection of ice samples from Green Land for trace metal analysis
  iii) Measurement of Fe(II) to Fe(III) oxidation rates and diurnal Fe dynamics in different conditions in Patagonia and Ny Aalesund.
  iv) Developing a speciation model for Fe and Zn together with David Turner
- Activities on other related projects include: ongoing measurements of Fe speciation in Antarctica Peninsula water samples from A Norwegian Research Council funded project

New Proposals

- Kuria Ndungu (Norwegian Institute for Water Research-NIVA), Murat Ardelan (NTNU) and Mats Granskog (Norwegian Polar Institute; submitted a proposal to the Norwegian Research Council entitled: Biogeochemistry of bioactive trace metals in Arctic waters: Fram Strait case study

Meetings

- Murat Ardelan attended the 2014 Ocean Sciences meeting in Hawaii.

Other Activities

- Phillip Wallhead at the Biogeochemistry group at The Norwegian Institute for Water Research (NIVA) are using the the SINMOD biogeochemical model to investigate climate change and acidification of the sea floor in the Arctic Ocean and Nordic Seas. SINMOD is a physical-biological hydrodynamic model including nitrogen, silicate and carbon chemistry coupled to a simple planktonic food web.

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