

ANNUAL REPORT ON **GEOTRACES** ACTIVITIES IN SWEDEN  
JUNE 2013 – JUNE 2014

***Meetings***

- Ocean Sciences 2014: David Turner participated in the SCOR WG139 meeting, and also gave a talk “CLE-CSV titrations in seawater: chemical speciation modelling” at the session organised by WG139.
- David Turner participated in a chemical speciation workshop in Liverpool, April 2014.
- Intercalibration committee meeting 1 to 3 May 2013 in Stockholm, Sweden. Host; Swedish Museum of Natural History, Department of Geosciences Per Andersson. Participants; Greg Cutter (Chair), Lou Codispoti, Rutgers van der Loeff, Roger Francois, Maeve Lohan, Peter Croot and Hajime Obata).
- Per Andersson participated in Intercalibration committee and Data management committee meeting in Bremerhaven 30 Sept. to 1 Oct. 2014.

***New proposals***

- David Turner, together with Simon Clegg (University of East Anglia, UK), submitted a proposal for a new SCOR WG “MARCHEMSPEC: Chemical Speciation Modelling in Seawater to Meet 21st Century Needs”
- David Turner has applied to the Swedish Research Council for the Tage Erlander Guest Professorship, to fund a 9 month visit to Gothenburg for Simon Clegg in 2015. The planned work coincides to a large extent with the SCOR proposal.

***Project start***

- “Particle transport derived from isotope tracers and its impact on ocean biogeochemistry: a GEOTRACES project in the Arctic Ocean”. A joint French-Swedish project to study particle transport by U-series nuclides with start-up meeting 31 March 2013 in Paris. A PhD-student, Sandra Gdaniec started 1 November 2013.

***Related projects***

- “Climate warming in Siberian Permafrost Regions; tracing the delivery of carbon and trace metals to the Arctic Ocean”. The main objective is to study a large basin dominated by permafrost and the impact of changing temperatures on the delivery of TEI to the Arctic Ocean. Second field season with 4 weeks of work along the Lena River and tributaries during 2013.

**Forward look: Icebreaker Oden will not contribute to GEOTRACES in the Arctic Ocean 2015**

- While Oden is “booked” for GEOTRACES in 2015, the Swedish Polar Research Secretariat (SPRS) does not have funds for more than 15 days, enough for a return trip to Svalbard. GEOTRACES needs an additional 20 days at 50 k€ per day, 1 M€ in total. Approaches to the major Swedish funding agencies have thus far drawn a blank.
- The use of Oden for a GEOTRACES cruise in the Arctic 2015 has now been cancelled. It has not been possible to secure funds for the entire cruise. Because the planning window is becoming too narrow for a 2015 cruise, discussions with SPRS lead to the conclusion to stop active planning for 2015 cruise using Oden. However, SPRS will continue to work out alternative sampling plans for the funded Joint-Swedish-French Arctic GEOTRACES project.

Submitted by David Turner (davidt@chem.gu.se).