

Swedish GEOTRACES and IPY related activities 2010

- **Participation in GEOTRACES intercalibration**

Nd, Th and Si isotopes

Trace elements

- **Proposal to the Swedish Research Council (VR) for a GEOTRACES cruise:** *The dynamics of trace metal biogeochemistry in the Arctic Ocean: A GEOTRACES cruise using the icebreaker Oden.*

Suggested joint collaboration between Sweden-UK-Germany-Spain-US-Russia and Canada

Proposal submitted for long-term planning (3-10 yrs) of Arctic Research. Evaluation results en of Sept. 2010?

- **Oden Southern Ocean 2010/11 Swe-US collaboration**

GEOTRACES related activities

- Trace metal speciation (Palmer)

- Nd isotopes (Oden/Palmer)

- **Participation in COST action ES0801**

Planning of a Baltic Sea GEOTRACES cruise (workshop planned by Poland and Finland)

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International Siberian Shelf Study 2008, ISSS 08 (IPY#562) *R/V Yakov Smirnitsky*

Results presented at, EGU, 2010 session BG2.17

Biogeochemistry of Arctic land-ocean interface

International Siberian Shelf Study (ISSS) Workshop – Vienna 5 May 2010

Results to be published in a special issue of the EGU-*Biogeosciences* (2011)

Selected publications with results from ISSS-08:

L.G. Anderson, T. Tanhua, G. Björk S. Hjalmarsson, E.P. Jones, S. Jutterström, B. Rudels, J.H. Swift and I Wåhlström (2010). Arctic ocean shelf–basin interaction: An active continental shelf CO₂ pump and its impact on the degree of calcium carbonate solubility. ***Deep-Sea Research I*** 57, 869–879

N. Shakhova, I. Semiletov, A. Salyuk, V. Yusupov, D. Kosmach, Ö. Gustafsson
Extensive Methane Venting to the Atmosphere from Sediments of the East Siberian Arctic Shelf. (2010) ***Science*** 327, 1246 (2010) DOI: 10.1126/science.1182221

V. Alling, L. Sanchez-Garcia, D. Porcelli, S. Pugach, J. E. Vonk, B. van Dongen, C.-M. Mörrh, L. G. Anderson, A. Sokolov, P. Andersson, C. Humborg, I. Semiletov, Ö. Gustafsson (2010) Non-conservative behavior of dissolved organic carbon across the Laptev and East Siberian Seas. Accepted in ***Global Biogeochemical Cycles***