

MEMBER COUNTRY: Finland

National Report to SCAR for year:

2010

Activity	Contact Name	Address	Telephone	Fax	Email	web site
National SCAR Committee						
SCAR Delegates						
1) Delegate	Prof. Markku Poutanen	Finnish Geodetic Institute, Geodeetinrinne 2, FIN-02430 Masala, FINLAND	+358-9-29555214		Markku.Poutanen@fgi.fi	http://www.fgi.fi
2) Alternate Delegate	Prof. Kari Strand	University of Oulu, PO Box 7300, FI-90014 Oulu	+358 8 5533556	+358 8 5533564	kari.strand@oulu.fi	http://thule.oulu.fi/englanti/index.html
Standing Scientific Groups						
Life Sciences						
1)	Dr Harri Kuosa	University of Helsinki, Tvarminne Zc	+358 (0)19 280176		harri.kuosa@helsinki.fi	http://luoto.tvvarminne.helsinki.fi/
2)	Prof Jorma Kuparinen	Department of Biological and Envir	Tel: +358-9-191 57820		jorma.kuparinen@helsinki.fi	http://luoto.tvvarminne.helsinki.fi/
3)						
4)						
Geosciences						
1)	Prof. Kari Strand	University of Oulu, PO Box 7300, FI-90014 Oulu	+358 8 5533556	+358 8 5533564	kari.strand@oulu.fi	http://thule.oulu.fi/englanti/index.html
2)	Dr Jaakko Mäkinen	Finnish Geodetic Institute, Geodeetinrinne 2, PO Box 15, FIN-02431 Masala			jaakko.makinen@fgi.fi	www.fgi.fi
3)						
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Physical Sciences						
1)	Dr Yrjo Viisanen	Finnish Meteorological Institute, PO Box 503, FIN-00101 Helsinki			yrjo.viisanen@fmi.fi	www.fmi.fi
2)	Prof. Matti Leppäranta	University of Helsinki, Division of Ge	+358(0)919151016	+358(0)919151000	matti.lepparanta@helsinki.fi	http://www.helsinki.fi/netice/members/lepparanta.htm
3)						
4)						

Activity	Contact Name	Address	Telephone	Fax	Email	web site
Scientific Research Program						
ACE 1) 2) 3) 4)	Prof. Kari Strand	University of Oulu, PO Box 7300, FI-90014 Oulu	+358 8 5533556	+358 8 5533564	kari.strand@oulu.fi	http://thule.oulu.fi/englanti/index.html
AGCS 1) 2) 3) 4)						
EBA 1) 2) 3) 4)						
ICESTAR 1) 2) 3) 4)	Dr. Kirsti Kauristie	Finnish Meteorological Institute, PO	+358 9 1929 4637		kirsti.kauristie@fmi.fi	www.fmi.fi
SALE 1) 2) 3) 4)						
AAA (2010-) 1) 2) 3) 4)						

Activity	Contact Name	Address	Telephone	Fax	Email	web site
ACTION GROUPS						
1) 2) 3) 4) insert others as needed						
EXPERT GROUPS						
1) Geospatial Information- Ge 2) 3) 4) insert others as needed	Prof. Markku Poutanen	Finnish Geodetic Institute, Geodeetinrinne 2, FIN-02430 Masala, FINLAND	+358-9- 29555214		Markku.Poutanen@fgi.fi	
SCADM						
1) 2)	Arto Vitikka	Arctic Centre, Univ. of Lapland. P.O. Box 122 FI-96101, Rovaniemi, Finland	+358-40-5272436		arto.vitikka@ulapland.fi	www.arcticcentre.org
SCAGI						
1) 2)						
NATIONAL ANTARCTIC DATA CENTRE						
SCAR DATABASE						
insert name of database for which your country has responsibility						

A BRIEF SUMMARY OF SCIENTIFIC HIGHLIGHTS*:

Finnish research activities in the Antarctica during 2009-2012.

In Finland the main source of Antarctic research funding is the Ministry of Education. This funding is distributed by the Academy of Finland.

The Academy is funding the following research projects for the period 2009-2012 and this is the second year that the projects are running. There are currently no projects with bioprospecting activities.

Scientific results can be expected closer to the end of the funding period.

Aerosols and snow at the Antarctic coast and continental glacier - Aerosolit ja lumi Etelämantereen rannikolla ja mannerjäätiköllä.

Contact: Finnish Meteorological Institute, Professor Risto Hillamo

Aerosols and snow at the Antarctic coast and plateau - Antartican rannikon ja ylätasangon aerosolit ja lumi.

Contact: University of Helsinki, Professor Markku Kulmala

The changing atmosphere at the Antarctica - Etelämantereen muuttuva ilmakä: Tutkimustyökaluina radioluotaukset, satelliittimittaukset ja ilmakemallitus. Bi-polaarinen lähestymistapa.

Contact: Finnish Meteorological Institute, Professor Esko Kyrö

Evolution of snow cover and dynamics of atmospheric deposits in the snow in the Antarctica

- **Lumen laadun ja rakenteen evoluutio ja ilmakehän laskeuman dynamiikka Antarktisessa lumipeitteessä.**

Contact: University of Helsinki, Professor Matti Leppäranta

FINNARP 2009 expedition, December 2009 - January 2010 at Aboa and surrounding areas in Dronning Maud Land. Field investigations were made on the snow mass balance, snow structure and properties, and solar radiation transfer into snow pack.

Dynamical evolution of Scharffenbergbotnen blue ice area since the Late Glacial Maximum.

Contact: University of Lapland/Arctic Centre, Professor John Moore

Stable boundary layer - Antarktisen rajakerros.

Contact: University of Helsinki, Professor Hannu Savijärvi

Publication: Hannu Savijärvi, 2009. Stable boundary layer: Parametrizations for local and larger scales. Quarterly Journal of the Royal Meteorological Society Volume 135 Issue 641, Pages 914 - 921

Cenozoic East Antarctic Ice Sheet History from Wilkes Land Sediments, IODP Expedition 318 - IODP Excursion 322

Contact: University of Oulu, Professor Kari Strand

<http://iodpfinland.oulu.fi/>

Prof. Kari Strand (Thule Institute, University of Oulu) is leading a research project related to the IODP Wilkes Land Glacial Margin Exp 318 drilled in January-March 2010.

Special interest lies in verifying the onset of Eocene-Oligocene glaciation of the East Antarctica by studying heavy minerals and quartz sand grains in sites U1356 and U1360 in collaboration with shipboard scientists Steve Bohaty, Sandra Passchier, Tina van de Flierdt, Stephen Pekar, Francisco Jimenez and Ursula Röhl.

The records from the Wilkes Land margin are complementary to same time interval obtained from the Prydz Bay during ODP Leg 188. Overall, this collaborative study is important in order to verify the history of the East Antarctic Ice Sheet and to increase our understanding of the future behavior of the Antarctic ice sheet.

Funding for this research is received from the Finnish Antarctic Research Program by the Academy of Finland and it is done in collaboration of the Institute of Electron microscopy at the University of Oulu

The meteorology of the Antarctica and its interaction with the snow, ice and the sea - Antarktisen meteorologia ja sen vuorovaikutus lumen, jään ja meren kanssa.

Contact: Finnish Meteorological Institute, Docent Timo Vihma

Crustal movements in the Dronning Maud Land

permanent GPS station and absolute gravity in base Aboa; Contact Jaakko Mäkinen, Finnish Geodetic Institute