

# **University of Tromsø NySMAC report: planned activities in 2010-2011 in Ny-Ålesund and surroundings.**

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Teaching (master, phd)

Projects (next slides)

## **Project: Regulation of methane by soil microbes in Arctic terrestrial ecosystems**

About 75 % of the Earth's biosphere is permanently cold, with a significant part consisting of permafrost. Arctic permafrost soils contain >14 % of the global organic soil carbon representing a major yet currently resilient part of the global carbon budget. The ongoing temperature increase in the northern hemisphere will make available these carbon ...

Duration: 01-01-2007 - Institution(s): UiT

## **Project: Microbial genomes and community gene expression in High Arctic terrestrial ...**

Soil microorganisms are key players in the degradation of stored organic carbon in High Arctic ecosystems. The soil processes are carried out by remarkably diverse and complex microbial communities, which adapt to the Arctic environment. The communities harbour microorganisms which are central in climate processes, and can influence the climate both at a ...

Duration: 01-08-2009 - 30-06-2012 Institution(s): UiT, Uni Wien, MPI

### **Project: Dynamics of the active methane oxidizing community in a High Arctic wetland ...**

Methane oxidizing bacteria are key player in methane cycling and wetlands are a major source of methane. Methane bursts have been reported during onset of freezing from a wetland in Greenland and raise the question of the response of the methanotrophic community due to seasonal changes. Graef, Christiane Svenning, Mette Marianne Frenzel, Peter UiT ...

Duration: 01-04-2010 - 30-12-2011 Institution(s): UiT, MPI

### **Project: Preliminary survey of arctic fungi on wooden marine substrate in Svalbard ...**

Knowledge of biodiversity forms the scientific basis for environmental management. The objectives of the preliminary study of arctic fungi on wooden marine substrate in Svalbard are to study taxonomical and ecological characters of these fungi both on man-made and drifted wooden substrate in intertidal zone. The preliminary survey gives information on ...

Duration: 01-08-2010 - 30-04-2011 Institution(s): UiT

## Data Set: Svalbard reindeer

To study the Svalbard reindeer and their basis of existence Part of Nils Are Øritslands work over many years. Based on field work and hunting material. The hunting material is from 1984, 1986 and 1987 and contains the agemix of the animals. Countings, observations and experiments Severinsen, Torbjørn Øritsland, Nils Are Tyler, Nicholas NPI Norwegian ...  
Institution(s): NPI, UiT, SMS