



Nordenskjöld Lecture

# HYDRO-CLIMATIC CHANGE IN PERMAFROST REGIONS

**Speaker: Dr. Georgia (Gia) Destouni**

Time: 15 September 2015, 15:30-16:30

Place: **Hörsalen**, Geovetarcentrum, Guldhedsgatan 5C, Gothenburg

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## **Abstract**

Permafrost environments are key elements of climate and water interactions with the cryosphere. Permafrost thaw due to surface warming interacts with thermokarst lakes and wetlands and with both hydrogeological and surface water flows in permafrost regions. Understanding these interactions is essential for detection, interpretation and prediction of permafrost change and its influences on regional water conditions, carbon fluxes and energy exchanges, and through these also on the global climate system. This talk will discuss challenges and recent progress in large-scale interaction understanding and quantification through combined data analysis and model simulations.



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## Short biography of the speaker

Georgia (Gia) Destouni is professor of Hydrology, Hydrogeology and Water Resources at Stockholm University. She is Vice President of the International Association of Hydrological Sciences, Henry Darcy Medalist of the European Geosciences Union, Fellow of the American Geophysical Union, and member of both the Royal Swedish Academy of Sciences and the Royal Swedish Academy of Engineering Sciences. Her research deciphers water system interactions with human change drivers and other environmental, ecological, climate and Earth System processes and changes across scales and world regions.



### *About Nordenskjöld Lecture*

The Nordenskjöld Lecture is the high profile session of the Earth System Science seminar series at the University of Gothenburg, designed to bring the leading world researchers to share their thoughts and perspectives. The lecture honours the memory of Otto Nordenskjöld, the first August Röhss professor of Geography and Ethnography at our university, who organised and led the first Swedish Antarctic expedition 1901-1903.