

Name of research institute or organization:

**Centrum voor Isotopen Onderzoek, Groningen University
(Netherlands)**

Title of project:

Testing snowmaking and firn coring equipment

Project leader and team:

Prof. Harro A.J. Meijer, project leader

L.G. van der Wel, H.A. Been, Dr. C.J.P.P. Smeets, P Kuipers Munneke (the latter two from IMAU, Utrecht University) team members

Project description:

The CIO-University of Groningen has initiated in situ isotope diffusion experiments on Greenland. this involves the production of snow using a snow gun, equipped with air compressor and water pump. This system has ben successfully deployed on Greenland August 2005, and the experiments will be repeated on Antarctica (Jan 2007) and on another, higher site on Greenland (Summer 2007).

The people who will use the system, as well as the -more standard- manual snow and ice coring system, need field training on forehand. Therefore, the above team applied for access to Jungfraujoch, as this is the only place with easy access that can guarantee snowy conditions, and (night) temperatures below 0.

We were granted access and had a very successful training session on September 21 and 22. One of us (Smeets) is currently on his way to Antarctica. It is planned that van der Wel and Kuipers Munneke will make a new snow layer on Summit next summer, as well as make the second sampling of the existing Greenland snow layer.



Key words:

Isotope diffusion, water isotopes, training

Scientific publications and public outreach 2006:

The work in Greenland as such (not specifically the training session at Jungfraujoch) got wide press attention in the Netherlands, specifically after a university of Groningen press release July/August 2005:

Magazine and Newspapers articles

Dagblad van het Noorden (regional newspaper): "Wetenschapper maakt sneeuw op Groenland" Telgraaf (nation-wide newspaper): excerpt from press release.

Parool (nation-wide newspaper): excerpt from press release.

Broerstraat 5 (University magazine for alumni) "Het klimaat in atomen".

Universiteitskrant (University newspaper): "Wetenschapper maakt sneeuw op Groenland".

Radio and television

Radio 1 (national radio): 15 min. studio interview.

Radio 2 (national radio): "human interest item" + live follow up from Greenland.

Radio en Televisie Noord (regional radio and television): (extended) News items.

OOg Televisie (television for Groningen city): news item.

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