

Workshop on the Dynamics and Mass Budget of Arctic Glaciers & the IASC Network on Arctic Glaciology Annual Meeting

25 – 27 January 2016, Benasque, Spain

Workshop summary report

The annual **Workshop on the Dynamics and Mass Budget of Arctic Glaciers & the IASC Network on Arctic Glaciology Meeting** took place between 25 – 27 January in Benasque in Spain, in which 44 participants from around the world were attended. The meeting was addressed to the working group dealing with issues of glaciology, but it was also open for everyone interested in the Arctic glaciology.

The main goal of the workshop was to present a state of the art in the dynamics and mass budget of glaciers in the Arctic, including the Greenland ice sheet, as well as to develop ideas for future projects and collaboration. The crucial aim was also to bring together glaciologists and oceanographers to advance the understanding of glacier-ocean interactions.

The meeting was opened with words of welcome spoken by the chair of the IASC Network on Arctic Glaciology (IASC-NAG) Dr Carleen Reijmer from the Institute for Marine and Atmospheric Research (IMAU) at University in Utrecht in the Netherlands and by the co-organizer Prof. Francisco Navarro from Technical University of Madrid. The following session began with a key lecture given by Prof. Regine Hock in which main challenges, problems and recent progress in global-scale glacier modeling were presented. Most of presentations were devoted to changes in mass balance of Canadian Arctic Archipelago ice cap and Greenland ice sheet but we also had an opportunity to hear about drifting across the Arctic 50 years ago. In the afternoon there was a poster session which started with a short presentations by the authors.

The second day was devoted to the special session on glacier-ocean interactions, the crucial subject in the light of today's climate change. The session started with a key lecture given by Prof. Gordon Hamilton about the state of the knowledge, recent studies and future directions leading to understand glacier-ocean interactions. During the session, MSc Agnieszka Promińska (PhD candidate in the Centre for Polar Studies) gave a speech on **Observations of oceanic waters reaching tidewater glaciers in Hornsund, Svalbard**, in which she presented the results of hydrographic measurements conducted in the vicinity of Hans glacier in Hornsund, describing the chronological evolution of water masses in the fjord. The IASC Network on Arctic Glaciology Open Forum meeting took place that day, during which future plans for IASC-NAG were discussed and also new chair of the group has been selected.

The last day was focused on the changes in the hydrology-dynamics of Greenland ice sheet and Arctic glaciers, based on observations and numerical modeling.

The participation of MSc Agnieszka Promińska was partially financed from the funds of the Leading National Research Centre (KNOW) received by the Centre for Polar Studies for the period 2014-2018.

Agnieszka Promińska