



Report on the Workshop

Melting snow and ice data for real-time maps and hydrological models

The Workshop **‘Melting snow and ice data for real-time maps and hydrological models’** (see link below) was organized by the Agricultural University of Iceland (www.lbhi.is) and the Reykjavik University (www.ru.is) in collaboration with the ESSEM COST Snow Action ES1404. It took place at the Reykjavik University on 28th February and 1st March 2017. On the first day, more than 30 scientists from 14 countries participated by presenting current research on all aspects of snow, avalanche, sea-ice, glacier, light-absorbing-impurities monitoring and modelling, and satellite snow products evaluation. It was a great opportunity for local Icelandic institutions dealing with snow, glacier, water, and sea-ice research to meet and share their knowledge and practices. Icelandic scientists came from different departments at the Icelandic Meteorological Office (IMO), University of Iceland (UI), Landsvirkjun, Vatnaskil, Agricultural University of Iceland (AUI), Reykjavik University (RU), and Keilir Institute of Technology. On the second day, some participants took part also in the field campaign organized by the Snow COST Action to compare snow measurement practices which are different in every country or at different institutes. The workshop and the campaign was reported by local national newspaper Morgunblaðið (see link below). The organizers concluded this workshop as a great success showing the importance of snow monitoring on local, European, as well as global scale.

Website:

<https://en.ru.is/news/international-workshop-on-snow-hydrology-for-real-time-maps>

Morgunblaðið article:

<https://www.mbl.is/frettir/innlent/2017/03/02/leita-ad-adferd-vid-ad-maela-snjó/>

Innlent | Morgunblaðið | 2.3.2017 | 7:57

Leita að aðferð við að mæla snjó



Visindamennirnir mokuðu rásir og skoðuðu snjóalög við Helliðsvirkjun. mbl.is/RAX



AGENDA

- 13:00-13:30 Harpa Grimsdottir, Avalanche Research Center in Ísafjörður, Icelandic Meteorological Office
Avalanches in Iceland: History, hazard mapping and monitoring
- 13:30-13:50 Bolli Palmason, Icelandic Meteorological Office
Harmonie/Surfex snow schemes
- 13:50-14:10 Þorsteinn Þorsteinsson, Icelandic Meteorological Office
Mapping snow thickness distribution on the Hofsjökull ice cap with a ground penetrating radar
- 14:10-14:30 Andri Gunnarsson, National Power Company of Iceland – Landsvirkjun
Snow and glacier observations at Landsvirkjun
- 14:30-15:00 BREAK
- 15:00-15:20 Inga Jonsdottir, University of Iceland
Real time sea-ice monitoring in the Greenland Sea
- 15:20-15:50 Outi Meinander and Pavla Dagsson-Waldhauserova, Finnish Met Institute and University of Iceland, Agricultural University of Iceland
Effects of light absorbing impurities on snow albedo, melt and density – including soot, organic carbon and Icelandic dust
- 15:50-16:10 Simon Gascoin, CESBIO/CNRS, Université de Toulouse, France
Evaluation of MODIS albedo product on ice caps in Iceland
- 16:10-16:30 David Finger, Reykjavik University
The Value Of Satellite Retrieved Snow Cover Images To Assess Water Resources And The Hydropower Potentials Of Ungauged Mountain Areas
- 16:30-17:00 Discussions
- 19-21 Dinner Downtown



The Workshop was organized in collaboration with the ESSEM COST Action ES1404 - ***A European network for a harmonized monitoring of snow for the benefit of climate change scenarios, hydrology and numerical weather prediction*** (www.harmosnow.eu). The main partners are the **Reykjavik University** (www.ru.is) and the **Agricultural University of Iceland** (www.lbhi.is).

ORGANIZING COMMITTEE:

Pavla Dagsson-Waldhauserova, Agricultural University of Iceland and University of Iceland

David Finger, Reykjavik University

Ali Nadir Arslan, COST ES1404 action director

Nacho López-Moreno, Spanish National Research Council

Leena Leppanen, Finnish Meteorological Institute

Outi Meinander, Finnish Meteorological Institute

Contact Pavla at pavla@lbhi.is or David at davidf@ru.is for further information.