

5th Workshop on Remote Sensing of Land Ice and Snow

Mon, 11 Feb 2008 **Preliminary Programme, Day 1**

09:00 Registration and Welcome

10:30 Why we should use remote sensed data - or why not?

Potential and limits of satellite data for climate issues

10:30 - 11:00

Assesment of snow cover of northern Eurasia for climate model validation and related GMES snow monitoring services

Jouni Pulliainen, Matias Takala, Panu Lahtinen, Anna Kontu, Jarkko Koskinen, Heikki Järvinen, Sari Metsämäki, Miia Eskelinen, Yrjö Sucksdorff, Juha-Petri Kärnä, Kari Luojus

11:00 - 11:30

Arctic Sea Ice in 2007: A year to remember

Julienne C Stroeve, Sheldon Drobot, James Maslanik, Walter Meier, Ted Scambos, Mark Serreze

11:30 - 12:00

Mapping Arctic albedo and cryosphere from MODIS for the International Polar Year at the Canada Centre for Remote Sensing

Alexander P. Trishchenko, Yi Luo, Konstantin V. Khlopenkov, William M. Park

12:00 - 12:30

14:00 A step forward - new sensors and new missions I

Session

New Missions of ESA's Living Planet Programme in the context of the IGOS-Cryo Theme

14:00 - 14:30

CoReH2O - A dual-frequency SAR mission for improved snow and ice observations

Helmut Rott, Donald Cline, Christian Haas, Claude Duguay, Richard Essery, Giovanni Macelloni, Eirik Malnes, Jouni Pulliainen, Helge Rebhan, Simon Yueh

14:30 - 15:00

15:00 Poster Presentation and Coffee break

16:30 A step forward - new sensors and new missions II

Session

Microwave Backscattering Measurements of Alpine Snow cover

Andreas Wiesmann, Tazio Strozzi, Christian Mätzler, Charles Werner, Urs Wegmüller

16:30 - 17:00

5th Workshop on Remote Sensing of Land Ice and Snow

X- and Ku-band Snow Backscatter Signatures from the SARALP-2007 Campaign

Keith Morrison, Helmut Rott, Thomas Nagler, Helge Rebhan, Patrick Wursteisen
17:00 - 17:30

19:00 Icebreaker Reception

5th Workshop on Remote Sensing of Land Ice and Snow

Tue, 12 Feb 2008 **Preliminary Programme, Day 2**

08:30 Continental Snow Cover

Session

The onset of snow melt estimated from SMMR and SSM/I data in Eurasia from 1979-2006

Matias Takala, Jouni Pulliainen

08:30 - 09:00

Diurnal thaw and refreeze during spring snowmelt from QuikScat over entire Siberia - A sensitivity and time series analyses

Annett Bartsch, Richard A. Kidd, Wolfgang Wagner

09:00 - 09:30

Monitoring Daily Snow Cover over the Western Arctic using AVHRR and MODIS Imagery

Richard Fernandes, Konstantin Khlopenkov, Alexander Trichtchenko

09:30 - 10:00

10:00 Poster Session and Coffee Break

11:30 Spectral characteristics of snow and ice

Session

Physically based snow albedo model and satellite retrieved snow parameters

Teruo Aoki, Taichu Tanaka, Etsuko Tanaka, Katsuyuki Kuchiki, Hiroki Motoyoshi, Tomonori Tanikawa

11:30 - 12:00

The behaviour of snow and snow-free surface reflectance in the boreal forest area

Miia Eskelinen, Jouni Pulliainen, Anna Kontu, Hanne Suokanerva, Sari Metsämäki

12:00 - 12:30

13:30 Spectral characteristics of snow and ice II

Session

Towards combined spectrodirectional reflectance measurements and detailed snow microstructure studies

Mathias Kneubühler, Klaus I. Itten, Stefan Rey, Jürg T. Schopfer, Martin Schneebeli

13:30 - 14:00

5th Workshop on Remote Sensing of Land Ice and Snow

Snow cover change detection with laser scanning range and brightness measurements

Sanna Kaasalainen, Harri Kaartinen, Antero Kukko, Henri Niittymäki

14:00 - 14:30

Using MODIS and VIIRS for Global Snow Fraction Retrieval

Igor L Appel

14:30 - 15:00

15:00 Coffee break

15:30 Snow hydrology

Session

Demonstration activities for snow cover monitoring and hydrology using satellite data

Thomas Nagler, Helmut Rott, Florian Mueller, Petra Malcher

15:30 - 16:00

AWARE project - the geo-service for snowmelt runoff modelling in Alpine environment

Anna Rampini, Paola Carrara, Monica Pepe, Massimo Antoninetti

16:00 - 16:30

Assimilation of snow melt information from SAR in the water balance and runoff model PROMET

Bach Heike, Florian Appel, Natalie Ohl, Monika Prasch, Ulrich Strasser, Wolfram Mauser

16:30 - 17:00

Temporal Evaluation Of Snow Depletion Curves Derived By Optical Satellite Data For Simulating Snowmelt Runoff in Turkey

Gokhan Marim, Aynur Sensoy, Unal Sorman

17:00 - 17:30

19:30 Conference Dinner

5th Workshop on Remote Sensing of Land Ice and Snow

Wed, 13 Feb 2008 **Preliminary Programme, Day 3**

08:30 Snow monitoring in mountains

Session

Snow Cover Mapping over the mountainous areas in Europe with MSG-Seviri

Serdar Surer, Orhan Gokdemir, Zuhail Akyurek, Unal Sorman

08:30 - 09:00

Analysis of short-term trends in snow cover variability in the European Alps - based on operational sub-pixel snow mapping with NOAA AVHRR data

Fabia Huesler, Stefan Wunderle, Nando Foppa

09:00 - 09:30

Alpine Snow Cover Climatology - a Swiss GCOS Pilot Project

09:30 - 10:00

10:00 Coffee break

10:30 Multisensoral / multitemporal snow and ice

Session

Time-series fusion of optical and SAR data for snow cover area mapping

Rune Solberg, Ragnar B. Huseby, Hans Koren, Eirik Malnes

10:30 - 11:00

Multi-sensor remote sensing observations of the near past and present structure and dynamics of Wilkins Ice Shelf (Antarctic Peninsula)

Matthias Braun, Angelika Humbert, Albert Moll

11:00 - 11:30

13:00 Glacier monitoring

Session

Mapping Little Ice Age glacier maximum in Jotunheimen, Norway, using aerial photography and LANDSAT imagery

Sabine Baumann, Liss M Andreassen, Stefan Winkler

13:00 - 13:30

Topography of glaciers and ice caps with Spot 5 HRS devices

Jérôme Korona, Etienne Berthier, Marc Bernard, Frédérique Rémy

13:30 - 14:00

Measurements of the Rhone Glacier velocity and topography using in-situ real-aperture RADAR

Charles Werner, Tazio Strozzi, Andreas Wiesmann, Andreas Bauder, Urs Wegmüller

14:00 - 14:30

5th Workshop on Remote Sensing of Land Ice and Snow

Satellite radar interferometry and feature tracking for measuring Everest region glacier recession

Duncan J Quincey, Adrian Luckman

14:30 - 15:00

GlobGlacier: Mapping the worlds glaciers and icecaps from space for improved climate change impact assessment

Frank Paul, Andreas Kaab, Helmut Rott, Andrew Shepherd, Tazio Strozzi

15:00 - 15:30

15:30 Closing session