

Finnish Remote Sensing Days

23-24 October 2013, Espoo Finland

www.kaukokartoituskerho.fi/2013, last update: 21 October 2013

Venue:

DIPOLI Congress Centre, Otaniemi, Espoo
Otakaari 24, 02150 Espoo (Otaniemi)
2nd Floor, Halls 4A+4B

Hosted by:



Official sponsors of the event:



Programme:

Wednesday, 23 October 2013

- 0830 **Registration**
- 0900 **Plenary session**, Chair: Mika Karjalainen
0900-0905 Welcome
0905-0925 **Ali Nadir Arslan**: Copernicus User Forum Finland
0925-0945 **Miranda Saarentaus**: ESA IAP activities - space data integration
0945-1005 **Tuomas Häme**: ReCover, A Concept for Tropical Forest Assessment for REDD: Results of Mexico service case
1005-1025 **Jouni Pulliainen**: Feasibility of Satellite Observations to Monitor Cryospheric Processes Based on Monitoring Programs and Campaign Activities at the Sodankylä Supersite, Northern Finland
- 1025-1100 **Coffee break**
- 1100 **Session1, Snow & Water**, Chair: Kari Luojus
1100-1120 **Juval Cohen**: Near Real-Time Flood Mapping in Finland Using X-Band SAR
1120-1140 **Jenni Attila**: The use of MERIS and MODIS data for monitoring coastal WFD water bodies
1140-1200 **Juha Lemmetyinen**: Airborne SAR Acquisitions in Northern Finland in Support of the CoreH2O Mission
1200-1220 **Timo Ryyppö**: FMI-ARC Ground Station: Current and Future Satellite Missions
1220-1240 **Kari Luojus**: Assessment of Snow Water Equivalent Estimates of CMIP5 Climate Model Simulations and Satellite-Based Data
- 1240-1340 **Lunch**
- 1340- **Session2, Spectral reflectance**, Chair: Eija Honkavaara
1340-1400 **Olli Nevalainen**: Chlorophyll and nitrogen estimation with hyperspectral LiDAR
1400-1420 **Xiaochen Zou**: Inversion of a radiative transfer model for estimating crop LAI, leaf mean tilt angle and chlorophyll from airborne hyperspectral data
1420-1440 **Eija Honkavaara**: Towards improved uncertainty and traceability of Earth Observation in Finland

1440-1500 **Presentations from sponsors & introduction to posters**
1500-1600 **Poster Bazar**

1600- **Session3, Forest1**, Chair: Matti Möttöus
1600-1620 **Lauri Korhonen**: Laser-Assisted Selection of Field Plots for an Area-Based Forest Inventory
1620-1640 **Jari Vauhkonen**: Rethinking single-tree remote sensing: Histogram matching of remotely sensed and field-measured tree size distributions
1640-1700 **Aarne Hovi**: Real and simulated waveform recording LiDAR data in boreal juvenile forest vegetation
1700-1720 **Teemu Mutanen**: Relasphone - mobile application with the relascope functionality
1720-1740 **Matti Möttöus**: Imaging spectroscopy of a boreal forest

1800 -2300 **Sauna**, Micronova, Tietotie 3, Otaniemi

Thursday, 24 October 2013

0920- **Session4, EU/ESA projects**, Chair: Sari Metsämäki
0920-0940 **Heikki Astola**: HRL Forest Mapping of Lot 1 Countries in GIO Land Project
0940-1000 **Kirsi Karila**: Land-use change mapping in Mekong Delta, Vietnam
1000-1020 **Yrjö Rauste**: Mapping Selective Logging in Tropical Forest with Satellite SAR Data
1020-1040 **Sari Metsämäki**: Northern Hemisphere snow mapping in GlobSnow: first results for NPP/VIIRS and comparison with NASA global snow maps

1040-1100 **Coffee break**

1100- **Session5, RS methods**, Chair: Jaan Praks
1100-1120 **Stefan Simis**: Shipborne remote sensing
1120-1140 **Lauri Markelin**: Geometric orientation of UAV images using computer vision algorithms
1140-1200 **Lingli Zhu**: 3D Railway environment modeling from multiple data sources
1200-1220 **Teemu Öhman**: Multidisciplinary Remote Sensing Analysis of Lunar Impact Crater Kepler

1220-1340 **Lunch**

1340- **Session6, Forest2**, Chair: Mika Karjalainen
1340-1400 **Jon Atherton**: Linking hyperspectral remote sensing observations of vegetation to the underlying physiological controls through a mechanistic modelling framework
1400-1420 **Tuure Takala**: Impact of forest structure induced illumination variation on canopy PRI
1420-1440 **Petri Varvia**: A Bayesian approach to retrieval of canopy LAI from hyperspectral remote sensing data
1440-1500 **Jaan Praks**: On spaceborne X-band SAR capability to retrieve forest height

1500-1510 **Closing of the RSD2013**

Poster presentations:

- **Maria Gritsevich:** Physical properties of meteoroids according to Middle and Upper atmosphere radar measurements
- **Maria Gritsevich:** FIGIFIGO: An Advanced Portable System for Spectropolarimetry
- **Emmihenna Jääskeläinen:** Exploiting UV range in SMAC atmospheric correction for SAL product of CM-SAF
- **Paula Litkey:** MEX Gateway with LASlib Functions for Point Cloud Data Transfer between Matlab and Binary Storage Formats
- **Petr Lukeš:** Assessing the Performance of a Leaf Optics Model for Boreal Tree Species
- **Mikhail Mednik:** Estimating Total Phosphorus in River Luga and Luga Bay in the North-Western region of Russia using Landsat 5 (TM) Satellite Imagery
- **Maris Nikopensius:** Seasonal reflectance dynamics of common understory types in hemi-boreal forests, Järvelja, Estonia
- **Jaan Praks:** Towards Finnish Earth Observation satellites
- **Evgeny Panidi:** Remote Sensing Monitoring and Joint Analysis of Northern Eurasia Climate and Vegetation Dynamics
- **Evgeny Panidi:** Remote Sensing Activities at Saint-Petersburg State University
- **Teemu Mutanen:** North State - Enabling intelligent Copernicus services for carbon and water balance modelling of northern forest ecosystems
- **Kairi Raabe:** Does leaf angle distribution change as a function of height and season for broadleaf tree species common to Estonia and Finland?
- **Jaakko Seppänen:** Soil Moisture Remote Sensing Experiments with Satellite and Airborne radiometers in Southwest Finland
- **Markus Törmä:** SYKE's Processing chain for Landsat TM/ETM-Images
- **Markus Törmä:** Vegetation Phenological Features from Daily MODIS NDVI Time-series
- **Teemu Öhman:** Topographic Analysis of the Circumferential Graben around Alba Mons, Mars

The event is organized by:

