

Thursday 22 Oct. 2009

8:30 Registration

9:00 Opening

- Chairman of Finnish Remote Sensing Club, J. Koskinen

9:05 General Session

Chair: J. Koskinen

- Finnish Earth Observation activities, T. Suortti, Tekes
- Swedish Earth Observation activities K. Dannenberg, R. Lundin, SNSB
- Norwegian Earth Observation activities G. Strøm, NSC
- Danish Earth Observation activities, H. Skriver, DTU
- Estonian Earth Observation activities, A. Reinart, Tartu Observatory
- Panel for questions (10:45)

11:05 Posters part 1 and refreshments

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11:20 Scientific Sessions

Land Applications

Chair: P. Härmä

Water Quality

Chair: S. Koponen

11:20	L. Eklund	Progress in the use of coarse-resolution satellite data for environmental monitoring, phenology and carbon	S. Koponen	Testing of MERIS Boreal and Eutrophic Lake Processors at Lake Säskylän Pyhäjärvi, Finland
11:40	S. Bircher	Planning of a Large-scale Soil Moisture Network for the Validation of Remotelysensed Surface Soil Moisture Data from the L-band Passive Microwave Radiometer SMOS: Skjern River Catchment, Western DK	J. Liira	Two decades of change in emergent macrophyte expansion in two large shallow northern temperate lakes on a retrospective series of satellite images
12:00	J. Pisek	Measuring gap size distribution and beyond-shoot clumping at Järvelja RAMI (RADIation transfer Model Intercomparison) test sites	S. Anttila	Water Quality Service for Lakes
12:20	M. Törmä	Geoland2 – Towards an Operational GMES Land Monitoring Core Service	J. Attila	Comparison of different MERIS Case II processors for the water quality estimation on the coastal waters of Finland
12:40	P. Härmä	Production of CORINE land cover 2006 and land cover changes between 2000-2006 in Finland	J. Seppälä	Variability in the inherent and apparent optical properties of the Baltic Sea and consequences for ocean colour algorithm development
13:00	J. Seppänen	Soil Moisture Retrieval in Boreal Forests with HUT-2D Synthetic Aperture Radiometer	T. Pyhälähti	Secchi 3000: New Approach to Water Quality Measurement Instruments and Systems Integration with Remote Sensing

13:20 Lunch

14:20 Scientific Sessions

Snow and Ice Chair: J. Pulliainen			Instruments Chair: J. Heilimo	
14:20	J. Pulliainen	Development of remote sensing of cryospheric processes: The ESA CoReH2O and its relation to other satellite missions	J. Kainulainen	L-band Imaging Radiometry with Airborne HUT-2D Interferometer – From the Performance to Remote Sensing Applications
14:40	J. Leinonen	Simulating GPM DPR snowfall observations by using combined weather radar and CloudSat measurements	J. Envall	ESTCube Mission— Testing the Electric Sail with the First Estonian Satellite
15:00	A. Krooks	Applications for laser scanning based methods for seasonal snow cover monitoring	J. Heilimo	Enhancing Satellite Data Reception Capabilities in FMI Arctic Research Centre at Sodankylä
15:20	S. Metsämäki	Snow remote sensing at Finnish Environment Institute	E. Honkavaara	The Finnish and international calibration/validation activities of high-resolution Earth remote sensing instruments

15:40 Posters part 2 and refreshments

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16:00 Scientific Sessions

Snow and Ice Chair: J. Pulliainen			UAV Chair: H. Saari	
16:00	M. Similä	On retrieving sea ice thickness using SAR and MODIS data	T. Hakala	MD4-200 Unmanned Aerial Vehicle and Retrieval of Bidirectional Reflectance Factor from Aerial Photographs
16:20	J. Karvonen	Sea Ice SAR Data and Segmentwise Edge Features	H. Saari	New Hyperspectral Imager for Light Weight UAVs – First test flight results
16:40	R. Berglund	ShipSensorNet – using ships as sensors in winter navigation	T. Rosnell	Automatic georeferencing of a UAV carried small format camera

17:00 Thematic Workshops

- Baltic Sea and Water Quality (S. Koponen, T. Pyhälähti, A. Seinä)
- Climate Change (J. Pulliainen, K. Luojus, J. Praks)
- Boreal Land Cover and Vegetation (T. Häme, E. Parmes, M. Karjalainen)
- Nordic Co-operation in International Programmes (J. Koskinen, Y. Sucksdorf, A. Leskinen)

18:30 Social event and Sauna

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 Tekes  ESRI Finland  FINNMAP FM-INTERNATIONAL  T-KARTOR GROUP

Friday 23 Oct. 2009

9:00 Scientific Sessions

Atmosphere

Chair: J. Tamminen

Commercial applications

Chair: E. Parmes

9:00	N. Kalakoski	Intercomparison of O3M SAF OUV and OMI/Aura OMUVBL3 Surface UV Products	A. Ikäheimo	BlomURBEX – Blom's Unique Oblique Data Base
9:20	A. Määttä	Retrieving ozone partial columns from HIRS measurements	A. Vuorela	Operationalisation of Hyperspectral Remote Sensing in Finland
9:40	J. Tamminen	Atmospheric remote sensing at FMI	S. Støver	KSAT's integrated services: Ground Station to End-user
10:00	P. Sievinen	An Urban Morphological Database Created Using Remote Sensing for Modeling of Atmospheric Dispersion and Micro-Meteorology	A. Herlevi	Green Net Finland and the possibilities for Finnish Cleantech companies

10:20 Refreshments

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10:40 Scientific Sessions

Atmosphere

Chair: J. Tamminen

Forest

Chair: T. Häme

10:40	S. Tukiainen	Multiyear observations of the middle atmosphere by the GOMOS and OSIRIS instruments	M. Möttö	Reflectance of forests: from shoots to global models
11:00	T. Mäkinen	Classification of meteorological and non-meteorological targets with principal component analysis applying conventional and polarimetric measurements and their texture	M. Molinier	Clearcut Detection between Aerial and Satellite Imagery Supporting Species-wise Forest Variable Estimates
11:20	M. Peura	BALTRAD – an Advanced Weather Radar Network in the Baltic Sea Region	U. Peterson	Edge proximity influence on radiance at forest edges on a very high resolution IKONOS winter satellite image

11:40	P. Rossi	Tracking of Thunderstorms through Weather Radar and Lightning Location Data	J. Praks	Peek under Forest Canopy with Polarimetric Coherence Tomography
12:00	V. Sofieva	Quantifying gravity waves and turbulence in the stratosphere using satellite measurements of stellar scintillation	T. Tokola	Planning of Remote Sensing based National Forest Inventory: Comparison of alternative Materials and Data Sources in tropical area
12:20			T. Häme	A concept for the monitoring of tropical forest

12:40 Lunch

13:40 Wrapping up the Workshops

15:00 End of Seminar

Posters

C. Brekke	Marine Target Detection in Single and Dual Channel SAR Images
I. Korpela	Airborne small-footprint discrete-return LiDAR data in the assessment of boreal mire surface patterns, vegetation, and habitats
M. Takala	Estimating Snow Cover Properties over Northern Hemisphere in a Period of 30 Years
P. Lahtinen	Merging Flat/Forest and Mountainous Snow Products for Extended European Area
J. Vauhkonen	Computational 3D geometry of airborne laser scanning data in modeling tree crown architecture
J. Lemmetyinen	Sodankylä-Pallas TestBed
K. Luojus	ESA GLOBSNOW – global snow database for climate research
D. Vaičiūtė	Phytoplankton biomass versus chlorophyll a: do they show the same water quality?
M. Rautiainen	Seasonal Reflectance Courses of Hemiboreal Birch Forests
P. Stenberg	Remote sensing of vegetation based on canopy spectral invariants
H. Piepponen	Using SeaPRISM Instrument on the Helsinki Lighthouse Tower for Satellite Validation
L. Matikainen	An improved approach for automatic detection of changes in buildings
P. Lukeš	Validation of CHRIS/PROBA chlorophyll content map for Norway spruce forest stands using airborne imaging spectroscopy data of very high spatial resolution
R. Kivi	Atmospheric ozone and water vapor observations: remote sensing and in situ data comparisons
S. Simis	Optimization of continuous reflectance measurements in coastal waters
M. Middleton	Unsupervised Neural Network Classification of Boreal Mire Biotopes with Hyperspectral Airborne HyMap
K. Viherkanto	Imaging spectral signature instrument (ISSI) airborne campaign

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