

**METIER course 6: Remote Sensing of the Hydrosphere, Helsinki, Finnish Environment Institute 3rd - 7th November, 2008**

	Monday, 3rd Nov	Tuesday, 4rd Nov	Wednesday, 5rd Nov	Thursday, 6rd Nov	Friday, 7rd Nov
Theme of day	Remote sensing, general & data handling	Water quality	Hydrological & nutrient leaching modelling	The value of GIS data for society	Assimilation of remote sensing and environmental models
9:00-10:00	Welcome, practical information, aims of the course, <b>Juha Kämäri, Sirkka Tattari</b>		<b>Lecture:</b> An operational large scale hydrological model, <b>Bertel Vehviläinen</b>		
10:00 - 10:30	Student poster session/oral presentation	<b>General lecture II:</b> Remote sensing, GIS and water quality, <b>Steeff Peters</b>	<b>Lecture:</b> Assimilation of satellite based snow, soil moisture and flood area information into large-scale hydrological models, <b>Sari Metsämäki &amp; Markus Huttunen</b>	<b>General lecture IV:</b> The use of model, GIS and remote sensed data in the society - examples from urban planning, land use and flood management, <b>Dagmar Haase</b>	<b>General lecture V:</b> Theory of data assimilation and inversion, <b>Jouni Pulliainen</b>
10:30 - 10:50	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
10:50 - 11:45	Student poster session/oral presentation	<b>Lecture, case study:</b> Remote sensing of water quality: The development and use of water processors available in BEAM, <b>Sampsa Koponen</b>	Student feedback, how they can utilize GIS data and modelling in their own work?	<b>Lecture, case study:</b> The Use of Remote Sensing, Drifting Forecasts and GIS Data in Oil Response and Pollution Monitoring, <b>Kati Tahvonen</b>	Summary; Practical info, Feedback Form
11:45 - 13:00	Lunch	Lunch	Lunch	Lunch & coffee	Lunch
13:00 - 15:00, one break in-between	<b>General lecture I:</b> Remote sensing of soil moisture and related use of remote sensing data as input to hydrological and meteorological, models/assimilation, <b>Wolfgang Wagner</b>	<b>Lecture, case study:</b> New measurement technology, modelling and remote sensing in the lake Säskylä Pyhäjärvi area, <b>Timo Huttula</b>	<b>General lecture III:</b> How GIS and remote sensed data is used in nutrient leaching models – state of art and visions for future, <b>Andrew Wade</b>	Laboratory visit, Helsinki University of Technology, Laboratory of Space Technology, <b>Host: Jaan Praks, Otakaari 5 A C220</b>	Transportation to the airport
15:00-15:30	Coffee break	Coffee break	Coffee break		
15:30 - 17:00...17:30	<b>Lectures:</b> GIS databases and spatial data infrastructure in SYKE, <b>Minna Kallio</b> , EO operational data provision for modeling purposes, <b>Timo Pyhälähti</b> , Discussion	<b>Discussion &amp; Hands-on training</b> - Image Processing using Erdas tools, <b>Timo Ikola, T-Kartan Product AB</b>	<b>Discussion &amp; Hands-on training:</b> Operational large scale hydrological and water quality model, <b>Markus Huttunen</b>		