

# NORDIC WATER 2012 – PROGRAM DRAFT 20.6.2012

MONDAY				TUESDAY				WEDNESDAY							
Sessions 1	Sessions 2		Sessions 3	Sessions 4	Sessions 1	Sessions 2		Sessions 3	Sessions 4	Sessions 1	Sessions 2		Sessions 3		
8:00	Registration				Keynote 9:00-9:30 Cintia Bertacchi Uvo The interacting system of climate and hydrology			9:00-10:30			<b>NHF general assembly</b> (with coffee serving)				
9:00	Welcome session 9:00-9:30 Rector lauri Lajunen, University of Oulu, Prof. Björn Klöve, Chair of NHC2012 Scientific Committee, University of Oulu				Keynote 9:30-10:00 Per Gustav Stålnacke How slow can it be? Spatial and temporal considerations on nutrient retention from source to river mouth			Keynote 10:00-10:30 John Doherty Environmental modeling - encapsulating what we know and quantifying what we don't							
9:30	DTech Riitta Kamula, Chair of NHF, Thule Institute + speaker from national institute				Keynote 10:00-10:30 Nikolai Friberg Restoring stream ecosystems in a changing climate			Keynote 10:00-10:30 John Doherty Environmental modeling - encapsulating what we know and quantifying what we don't							
9:45	Keynote Aaron Packman Overview of surface-groundwater interactions in the context of river degradation, water quality, and ecosystem processes				coffee										
10:00	9:45-10:30														
10:15	Coffee														
10:45															
<b>CLIMATE AND HYDROLOGY</b>				<b>SEDIMENT &amp; NUTRIENT FLUXES</b>				<b>GROUNDWATER</b>							
11:00	Climate Change in a Part of Northern Europe in the Context of the Spatial Differences of the Contemporary Climate; Daiga Cepite-Frišfelde, Tija Sile, Uldis Beters, Juris Šeņņikovs, Andrejs Timuhins	Analysis of water balance and subsurface drainage methods in a clayey agricultural field; Mika Turunen, Lassi Warsta, Harri Koivusalo, Jyrki Nurminen, Maija Paasonen-Kivekäs, Helena Äijö, Merja Myllyis, Laura Alakukku and Markku Puustinen	Surface water - groundwater interaction: Hyporheic processes of a regulated river; Dmytro Siergiejev, Anders Widerlund, Angela Lundberg	A comparison of different approaches for forecasting spring floods in Sweden and the feasibility of a multi-model forecast system; K Foster, J Olsson, C B Uvo, W Yang and J Söding	Impact of small hydropower plant on biotic environment; Saulius Vaikasas, Virginija Pliuraite, Nijole Bastiene	Trends in DOC export from Finnish rivers to the Baltic Sea between 1975 and 2010; Antti Räike, Pirkko Kortelainen, Tuija Mattsson, and David Thomas	Suspended Sediment Dynamics from Meltwater stream of Dokriani Glacier, Garhwal Himalaya (India), Amit Kumar, D.P Dobhal	Fluvial processes and their future magnitudes: combined field observation and simulation approaches; Eliisa Lotsari	Uncertainties in estimation of water balance of the Curonian Lagoon; Jurate Krauciuniene and Darius Jakimavicius	Analysis of nutrients' point sources of pollution in the lowland river catchment and river self-purification potential in river continuum; Edyta Kiedrzyńska, Magdalena Urbaniak, Marcin Kiedrzyński, Maciej Zalewski	Impacts of climate change on groundwater resources in Hanko coastal aquifer, south Finland; Samrit Luoma, Birgitta Backman and Johannes Klein				
11:15	Evaluation of Long-term Discharge in Swedish Rivers - In search for Decadal Oscillations and the Relation to Known Climate Patterns; Angelica Lidén, Karin Persson, Kean Foster and Cintia B. Uvo	Modelling water flow and soil erosion in clayey, subsurface drained agricultural fields with FLUSH model; Lassi Warsta, Tuomo Karvonen, Harri Koivusalo, Maija Paasonen-Kivekäs, Antti Taskinen, Pertti Väkkiläinen	Methods to identify groundwater interaction with river water in the catchment of the River Vantaa, southern Finland; Anna-Liisa Kivimäki, Kirsti Korkka-Niemi, Anne Rautio, Kirsti Lahti, Veli-Pekka Salonen, Heli Vahtera	Flash floods trend detection in Lithuanian rivers; Diana Meilutytė-Barauskienė, Diana Sarauskienė	Atlantic salmon passage in the regulated River Oulujoki, northern Baltic Sea; Panu Orell, Aki Mäki-Petäys, Jaakko Erkinaro and Petri Karpinen	Assessing the origin of the acidity in a humid boreal river draining peatlands and sulfide-bearing soil materials; Saukkoriipi, J., Martimäki, K., Marttila, H., Heikkinen, K., Tammela, S., Tertsunen, J., Tolkkinen, M., Ihme, R. & Klöve, B.	Sediment deposition in the floodplain areas of the Nemunas watershed and its influence on the sedimentation in the Curonian Lagoon; Saulius Vaikasas and Alfonsas Rimkus	Stream flow forecast and operation of Dautieng reservoir for adaption on climate change – a case study in Vietnam; T.H. Hoang, K. Miegel	Trends in evaporation in northwest region of Iran; Mohammad Mehdi Moayeri, Davood Farsadzadeh, Hadi Sanikhani	Removing phosphorus from ditch water with Ca-Fe oxide granules; Egle Saaremäe, Martin Liira, Morten Poolakese, Toomas Tamm	Effect of climate change on recharge and water budget in Roka esker aquifer, Finland; Pertti Ala-aho; Björn Klöve				
11:30	Long term variability of Swedish river runoff as represented by EC-EARTH in past and future climates; K Foster, O Siergiejeva, D Correl, Cintia B. Uvo	Estimation of vegetative flow resistance in environmental channels: Experimental investigations with natural vegetation; Kaisa Västilä, Juha Järvelä	Investigation of stream temperature response to nonuniform groundwater discharge in a Danish lowland stream; Karthikeyan Matheswaran, Morten Blemmer, Paul Thorn, Dan Rosbjerg and Eva Bøgh	Land use as a factor affecting flood characteristics in small catchments; Vaclav David, Tereza Dvorakova	Effects of hydropeaking on young Atlantic salmon and competition between young Atlantic salmon and brown trout under peaking flows; Teppo Vehanen, Ari Huusko, Ole Berg, Michael Puffer and Aki Mäki-Petäys	Intensive biomass harvesting - leaching of nutrients and hydrological processes; Eero Kubin, Tanja Murto and Jiri Kremsa	Impact of variable climate conditions on nutrient flux and erosion - five years' on-line measurements in a small agricultural river; Valkama Pasi, Lahti Kirsti and Särkelä Asko	Spatial and temporal distribution of runoff and its climatic factors in the river basins of Asia; Vladimir Kononov	Comparison of the trends and multi-time scale precipitation variability in Indian region derived from TRMM, WFD and rain gauge dataset; Lu Li, Chong-Yu Xu, Zengxin Zhang	Flow design of phosphorus filters; Inga Herrmann, Amir Jourak, Staffan Lundström, Annelie Hedström, Maria Viklander	Traditional and non-traditional isotope tracers in monitoring artificial groundwater recharge: Virtaankangas aquifer in SW Finland; Nina Kortelainen, Yann Lahaye, Hugh O'Brien				
11:45	On climate prediction: performance evaluation of RCMs; Arun Rana, Shilpy Madan, Lars Bengtsson	Empirical models for sediment transport from hillslopes in hydrological watersheds; Hafzullah Aksoy and Ebru Eris	Occurrence and water properties of groundwater outflows from porous deposits on Polish Plain, western Poland; Anna Szczuńska	Flood risk modelling for basin of the Daugava River; Juris Šeņņikovs, Aigars Valainis, Anita Pilksere	Improving the ecological state of a large harnessed river – a case study of the River Oulujoki, Finland; Kamula Riitta & Tammela Simo	Modelling of the nitrogen leaching from drained peat soils on the watershed scale; Anatoli Vassiljev	Modeling toxic metal remediation capacity in bioretention cells; Nils-Otto Kitterød, Kim A.H. Diesen Paus, and Bertil Nistad	Impact of climate change on water availability and hydropower production in the Swiss Alps; Manfred Stähli, Mélanie Raymond-Pralong, Massimiliano Zappa, Frank Paul, Thomas Bosshard and Christian Dupraz	Climate change scenarios of precipitation extremes in RCM simulations over Europe evaluated by the region-of-influence method; Jan Kysely, Ladislav Gaal, Romana Beranova Bosshard and Christian Dupraz	Development of catchment scale inorganic N loading model WSFS-VEMALA-N; Inese Huttunen, Markus Huttunen, Bertel Vehviläinen and Ahti Lepistö	Climate change impacts and the adaptation measures in the Finnish water industry; Jari Rintala, Sanna Vienonen and Mirjam Orvomaa				
12:00	Hydrological model space transferability studies to estimate streamflows at ungauged sites; Zelelew, Mulugeta B. and Alfredsen, Knut	Modelling long-term patterns in suspended sediment in a mixed land use Swedish catchment; Martyn Futter, Stefan Hellgren and Faruk Djodjic	Effect of groundwater availability on riparian vegetation; Lenka Kuglerova, Roland Jansson	High-resolution multi-temporal contiguous mapping of river bed and flood-plain by combining laser scanning with UAV-photogrammetry based bathymetry; Claude Flener and Antero Kukko and Anttoni Jaakkola and Anssi Krooks and Matti Vaaja and Elna Kasvi and Harri Kaartinen and Hannu Hyppä and Juha Hyppä and Petteri Alho	Hydrologic regime restoration in the Dovinė river basin, Lithuania: modelling scenario approach; Arvydas Povilaitis	The effect of clear-cutting and energy wood harvesting on the nitrate leaching from two spruce stands in southern Finland; Antti-Jussi Lindroos, Pekka Tamminen, Hannu Ilvesniemi	Implementation of the Water Framework Directive 2000/60/EC (WFD) in Lithuania: how does it work? Loreta Steponaitė	Changes in hydrological regime of the lakes in Latvia; Elga Apsite, Andrejs Zuberis, Didzis Effer, and Inese Latkovska	Evaluation of short-term precipitation in high-resolution RCM simulations over Sweden; Jonas Olsson, Anna-Maria Gustafsson and Magnus Persson	Ecological recycling agriculture can reduce nitrogen losses – model results from two Finnish catchments; Kirsti Granlund, Katri Rankinen, Randall Etheridge and Pentti Seuri	An interactive decision analysis framework for the support of groundwater management – a case study of a Finnish esker; Timo P. Karjalainen, Pekka Rossi, Pertti Ala-aho, Riku Eskelinen, Kalle Reinikainen and Björn Klöve				
12:15	Ground frost variation in Finland; Mirjam Orvomaa, Risto Mäkinen	Geomorphological-ANN Based Modeling for Estimation of Suspended Sediment Load; Vahid Nourani, Aida Hosseini Baghanam and Elnaz Sharghi	Regional groundwater flow modelling of aquifer-peatland interactions. A case study from the Lanoraie Peatland complex Quebec, Canada; Bourgault Marc-André, Laroque Marie and Martin Roy	Multivariate analysis of the relationship between volume and time duration of the flood waves; Veronika Bačová Mitková, Dana Halmová and Pavla Pečárová	To be confirmed	The use of stable isotopes (δ13C and δ15N) in discriminating different forms of peatland use and estimating ecological impacts in stream communities; Mika L. Nieminen, Emmanuela Daza Secco, Kristian Meissner	Experiencing community-based environmental monitoring using modern data collection systems; Dr. J. Silander, T. Toivanen & M. Lindholm	Demonstration of web based map service to integrate data and models for participatory river basin management; Olli Malve, Anita Etholen, Sanna Heiltunen, Tuomo Kauranne, Matti Lindholm, Heikki Mäkinen, Timo Pihlahti, Pasi Roti, Matti Silvennoinen, Vincent Westberg, Sari Väisänen	Simulating the hydrological effects of changes in the precipitation regime in the Jordan River region; Tobias Törnros and Lucas Menzel	Valuation of nitrogen retention as an ecosystem service at catchment scale; Katri Rankinen, Kirsti Granlund, Randall Etheridge and Pentti Seuri	Managed aquifer recharge in community water supply: International and Finnish experiences; Vuokko Kurki, Tapio S. Katko				
Lunch				Lunch				Lunch							
<b>COLD CLIMATE HYDROLOGY</b>				<b>PEATLANDS &amp; FOREST</b>				<b>GROUNDWATER</b>							
13:30	Impacts of climate variability and change on snow accumulation and melt in Kajaani, Finland; Masoud Iranmehr, Anna-Kaisa Ronkanen and Björn Klöve	Can temporal detention of runoff water be used as water protection method in peatland forestry? Hannu Marttila, Kari-Matti Vuori, Hannu Hökkä, Juha Jämsen, Björn Klöve	Isotopic tracers and microbial life at an artificial recharge plant in Southern Finland; Paula Niinikoski, Johanna Ojala, Nina Kortelainen and Juha Karhu	Preventive flood protection: Land use impact on the water harvest – using a modified physical based model at a catchment scale; M. Abubashim, H. Lilienthal and E. Schnug	<b>WALKING TOUR</b>				<b>WATER BALANCE</b>						
13:45	Deriving snow cover related model parameters from land surface information; Ulrich Haberl, Hans-Peter Nachtnebel	The effect of water table rising on DOC, N, P, and Fe release from restored peatland forests; Mika Nieminen, Annu Kaila, Sakari Sarkkola, Zaki Asam, Liwen Xiao, Ari Laurén, Hannu Hökkä	Hydrodynamics of Salinization of a Coastal Karstic Spring Zone By Means of Stable Isotopes, Southwestern Turkey; Sukran Acikel, Mehmet Ekmekci, Levent Tezcan, Deniz Ozbek and Turker Kurttas	Multiple flood impact on engineering structures in river flow; B.Gjunsburgs&S.Vaikasas	<b>A regionalized spatial-temporal point process model of rainfall; Paul Cowpertwait</b>  <b>Two-way coupled atmospheric-hydrological model and its application in Rio Grande basin, Brazil; Fábio F. Pereira and Cintia B. Uvo</b>  <b>Improving the accuracy of a grid-based distributed hydrological model using sub-grid scale parameterization of elevation data; Hannu Lauri, Timo Räsänen, Matti Kummu</b>  <b>Frequency analysis of the daily precipitation series on Hurbanovo station (Slovakia) during 1872–2011; Dana Halmova, Pavla Pekarova, Juraj Olbrimek, Pavol Miklavec</b>				<b>SEDIMENT &amp; NUTRIENT FLUXES</b>						
14:00	Snowmelt Modelling in Urban Areas - Sensitivity Analysis of the Energy and Mass Balance Method; Shahab Moghadas, Camilla Westerlund, Anna-Maria Gustafsson, Maria Viklander	Impact of hydrological mire restoration on spring invertebrate communities; Jari Ilmonen, Risto Virtanen, Lauri Paasivirta and Timo Muotka	The effect of soil type and geochemical properties on pathogen transport in an esker aquifer – A column study; Backnäs, S., Kauppinen, A., Hyvärinen, N., Pitkäläinen, T., Hoka Jarvis, A.-M. and Miettinen, I.T.	Drought and aridity challenge in arid and semi arid climates due to land and water use pressures; Pouyan Keshkaran, Ali Torabi Haghighi, Björn Klöve					<b>GROUNDWATER</b>						
14:15	Results from Filefjell and Anestølen snow research stations; Elise Trondsen and Heidi Bache Stranden	Sustainability of land-use on peatlands; Anne Tolvanen	Orivesi permeable reactive barrier – Remediation of contaminated groundwater in Nordic conditions; Sirku Tuominen & Taina Nystén	Characteristics of drought in Vojvodina province; Milica Rajic, Nenad Vojnovic and Milorad Rajic					<b>FLOODS &amp; DROUGHT</b>						
Coffee				Coffee					Coffee						
<b>COLD CLIMATE HYDROLOGY</b>				<b>SEDIMENT &amp; NUTRIENT FLUXES</b>					<b>GROUNDWATER</b>						
15:00	Snow water monitoring with stationary radar; Pekka Hänninen, Juha Majaniemi and Raimo Sutinen	Where in a river catchment are restoration efforts most effective? Anna L. Dietrich, Christer Nilsson, Roland Jansson	Impact of the climate changes to shallow groundwater in Baltic artesian basin; Didzis Lauva, Peteris Beters, Andrejs Timuhins and Juris Sennikovs	New heavy rain distributions and climate change modelling in urban areas; Dr. J. Silander1, J. Aaltonen2 & J. Koistinen	<b>WATER BALANCE</b>										
15:15	Long-term changes in discharge and ice regime in Latvian river basins and regional peculiarities; Inese Latkovska, Elga Apsite, Didzis Effer, Liga Kurpniec and Elza Žumbure	Riparian vegetation functioning in zones with low anthropogenic nutrient input; Jaime G. Cuevas, Christian Little, César Leiva, Leandro Paulino, and José Dörner Zumbure	The shift of annual long-term groundwater table fluctuation regime in Latvia; Didzis Lauva, Inga Grinfeide, Arturs Veinbergs, Kaspars Abramenko, Valdis Vircaus, Zane Dimanta, Ilva Vitola and Agnese Galluma	Urban rainfall-runoff simulation using GIS and Storm Water Management Model (SWMM); a case study of Nowde, Iran; Shahram Khalighi Sigarodi, Mohammad Rostami Khalaj, Mohammad Mahdavi, Ali Salajegheh	<b>SEDIMENT &amp; NUTRIENT FLUXES</b>										
15:30	Flood scenarios for river stretches with ice blocking potential; Uldis Beters, Juris Šeņņikovs, Andrejs Timuhins and Aigars Valainis	Impact of land use on catchment restoration and, water quality and quantity in the Brahmaputra basin of India; U.C.Sharma and Vikas Sharma	Agricultural impact on groundwater quality in south west Latvia; Valdis Vircaus, Arturs Veinbergs, Didzis Lauva, Kaspars Abramenko, Zane Dimanta, Ilva Vitola and Agnese Galluma	A strategy for addressing the impacts of climate change and urbanization on storm water quality in northern Sweden; Matthias Borris; Maria Viklander; Camilla Westerlund; Anna-Maria Gustafsson	<b>FLOODS &amp; DROUGHT</b>										
15:45	On the near-bottom lake water temperatures in Finland in 1981-2010; Johanna Korhonen	Wetland restoration in small river catchment: Activities, results and experience; Zenonas Gulbinas	Challenges for hydrological research in cold, semi-arid environments: case study Northern Mongolia; Lucas Menzel, Benjamin Kopp, Stefanie Minderlein	Stormwater Modelling of Pollutants Wash-off from Urban Area Subcatchments; Tilt Koppel, Madis Maddison, Anatoli Vassiljev, Janek Laanearu, Raido Puust	<b>SEDIMENT &amp; NUTRIENT FLUXES</b>										
16:00	Lake ice time series and climate variations; Matti Leppäranta	Active wetlands: Assessments of nutrient loading and cost effectiveness of constructed wetlands and chemical amendments; Jari Koskiah, Markku Puustinen and Kauko Koikkalainen	Modelling of soil water conditions as an indicator for predicting landslides in Norway; Sören Boje, Stein Beldring, Chong-Yu Xu	Source based estimation of pollutant fluxes in mixed urban catchments; Helen Galfi, Camilla Westerlund, Gilbert Svensson and Maria Viklander	<b>FLOODS &amp; DROUGHT</b>										
16:15	Current and future ice conditions and implications for infrastructure in rivers and lakes; Solomon B. Gebre, Knut T. Alfredsen	Explaining the recent changes in agricultural nutrient loading in Finland; Katri Rankinen, Petri Ekholm, Hannu Rita, Heidi Sjöblom, Ljudmila Vesikko	Water mixing pattern at the interface between the Anzali wetland and the Caspian Sea; Rahbani, Maryam	Factors affecting the long-term performance of permeable concrete grid pavements; Ahmed Mohammed Al-Rubaei, Maria Viklander, Godecke-Tobias Blecken	<b>SEDIMENT &amp; NUTRIENT FLUXES</b>										
16:30	<b>POSTER SESSION</b>						<b>Closing Session</b>								
18:00															
19:00	<b>WELCOME RECEPTION</b>						<b>CONFERENCE DINNER</b>								