

Tuesday the 18th of September 2012.
Auditorium Brainstorm / Lecture room Aqua

09.00 - 09.10 Opening

Sylvain Joffre, head of Meteorological Research of FMI

09.10 - 09.20 Practical arrangements

Lake data assimilation and lake description in NWP models

EUMETCAL Centra internet session 06.20-07.40UTC

Chairperson: Jean-Francois Mahfouf

09.20 - 09.40

Emma Fiedler: An operational analysis of lake surface water temperature

emma.fiedler@metoffice.gov.uk

09.40 - 10.00

Ekaterina Kurzeneva: Data assimilation over lakes

ekaterina.kurzeneva@fmi.fi

10.00 - 10.20

Dmitri Mironov: Nudging of the Water Surface Temperature and Ice Cover Observations into Lake Parameterization Scheme FLake

dmitrii.mironov@dwd.de

10.20 - 10.40

Homa Kheyrollah Pour: Evaluation and Assimilation of Remotely-Sensed Lake Surface Temperature in the HIRLAM Weather Forecasting System

h2kheyro@uwaterloo.ca - *invited*

10.40 - 11.10 Refreshments

Chairperson: Viktor Stepanenko

11.10 - 11.30

Margarita Choulga: Estimations of mean lake depth for Boreal lakes

botan4ik@hotmail.com - *invited*

11.30 - 11.45

Yurii Batrak (*presented by E.Kurzeneva*): Improved lake climatology for use in NWP and climate models

Lakes in climate simulations

11.45 - 12.15

Andrey Martynov: Lakes in climate change simulations over North America by Canadian Regional Climate Model, version 5

[andrey.martynov, uqam.ca](mailto:andrey.martynov@uqam.ca)

12.15 - 12.30

Jussi Kaurola: First attempts to simulate lake ice in Finland with FLake and REMO regional climate model

[jussi.kaurola, fmi.fi](mailto:jussi.kaurola@fmi.fi)

12.30 - 13.30 Lunch

Moving to lecture room Aqua

Lake parametrisations in NWP models

EUMETCAL Centra internet session 10.30-12.10UTC

Chairperson: Jeanette Onvlee

13.30 - 13.50

Patricia Rosnay: Current status of lake modelling and initialisation at ECMWF

[patricia.rosnay, ecmwf.int](mailto:patricia.rosnay@ecmwf.int)

13.50 - 14.10

Jürgen Helmert: Implementation of an improved land-surface parameterization scheme with FLake in the ICON model

[juergen.helmert, dwd.de](mailto:juergen.helmert@dwd.de)

14.10 - 14.30

Kalle Eerola: First experiences of operational HIRLAM with Flake

[kalle.eerola, fmi.fi](mailto:kalle.eerola@fmi.fi)

14.30 - 14.50

Cisco de Bruijn: Prediction of lake ice in the Netherlands using FLake

[bruijnde, knmi.nl](mailto:bruijnde@knmi.nl) - invited

14.50 - 15.10

Rui Salgado: The impact of lake representation on high-resolution mesoscale simulations: Alqueva (South Portugal) case study.

[rsal, uevora.pt](mailto:rsal@uevora.pt)

15.10 - 15.40 Refreshments

Development and observational validation of lake models

Chairperson: Gabriel Rooney

15.40 - 16.00

Georgiy Kirillin: Towards improved treatment of lake stratification in FLake
kirillin.igb-berlin.de - *invited*

16.00 - 16.20

Viktor Stepanenko: An intercomparison model study of Lake Valkea-Kotinen
vstepanenkomeister@gmail.com

16.20 - 16.40

Wim Thiery: LakeMIP Kivu: Evaluating the representation of a large, deep tropical lake by a set of 1-dimensional lake models using a comprehensive set of lake temperature profiles
wim.thiery.ees.kuleuven.be

16.40 - 17.00

Patrick Le Moigne: Presentation of the THAUMEX measurement campaign. Modelling of a coastal lagoon with FLake.
patrick.lemoigne.meteo.fr

Wednesday the 19th of September 2012
Excursion to Kiljava

8.30 Bus from FMI to Kiljavanranta, lake Sääksjärvi

The day in Kiljavanranta may be organised according to the weather, but preliminary the meeting room is available in the morning.

9.30 Welcoming coffee

10.00 - 10.20

Jean-Francois Mahfouf: Ongoing activities of the SRNWP Expert Team on Surface Processes
jean-francois.mahfouf.meteo.fr - *invited*

10.20 - 10.40

Jeanette Onvlee: Understanding conditions on Lake Victoria: A WMO initiative
jeanette.onvlee.knmi.nl

10.40 Start of working sessions and planning of the rest of the day

Participants are encouraged to suggest what would be the most important topics to working groups/sessions, now that there is a possibility to use a few hours to work together with colleagues. The working groups/sessions should contribute to the future plans and make suggestions. Reports are presented in the final discussion on Thursday.

12 - 13 Lunch

14 - 15 Coffee

18 - 20 Sauna

20 - 22 Dinner

22 - Bus back to Helsinki

Thursday the 20th of September 2012. Auditorium Brainstorm

Topics of lake modelling and observation

EUMETCAL Centra internet session 08.45-10.25UTC

Chairperson: Stefan Gollvik

8.45 - 09.05

Bertel Vehviläinen: Forecasting of lakes in SYKE
[bertel.vehvilainen, ymparisto.fi](mailto:bertel.vehvilainen@ymparisto.fi)

09.05 - 09.25

Arkady Terzhevik: Radiatively-driven convection: Does it really control suspension of phytoplankton in ice-covered lakes?
[ark, nwpi.krc.karelia.ru](http://ark.nwpi.krc.karelia.ru) / [ark1948, list.ru](http://ark1948.list.ru) - invited

09.25 - 09.45

Bin Cheng: Evolution of snow and ice thickness in Lake Orajärvi, northern Finland
[bin.cheng, fmi.fi](mailto:bin.cheng@fmi.fi)

09.45 - 10.05

Ivan Mammarella: Eddy covariance measurements of energy and CO₂ fluxes over a boreal lake in southern Finland
[ivan.mammarella, helsinki.fi](mailto:ivan.mammarella@helsinki.fi)

Third Workshop on Parameterization of Lakes in Numerical Weather Prediction and Climate Modelling
Finnish Meteorological Institute, Helsinki, September 18-20 2012

10.05 - 10.25

Miguel Potes: Extinction coefficient measurements over inland waters
[mpotes, uevora.pt](mailto:mpotes@uevora.pt)

10.25 - 10.50 Refreshments

10.50 - 12.30

Reports of the working groups/sessions, final discussion and conclusions

12.30 Closure of the workshop

12.30 Lunch

Afternoon: a meeting room (Turbulenssi, 4th floor) will be available to continue work together with colleagues

Password for the EUMETCAL Centra Internet Sessions: fmlake12

Instructions: <http://muscaten.ut.ee/Lake12/centra.html>

registered participants without own presentation

Annika Nordbo (18.9. only)

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Jean-Marie Bettems

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