

# **Greenhouse emissions from lakes workshop at Wiks slott**

## **23-24 November, 2011, workshop at Wiks slott**

Agenda for Wiks slott workshop

Participants:

Anna Rutgersson (UU-Department of Earth Sciences)  
Erik Sahlée (UU-Department of Earth Sciences)  
Eva Podgrajsek (UU-Department of Earth Sciences)  
Dolly Kothawala (UU-Department of Limnology)  
Lise-Lotte Sørensen (Aarhus University)  
David Bastviken (Linköping University)  
Alex Enrich-Prast  
Timo Vesala (University of Helsinki)  
Anne Ojala (University of Helsinki)  
Blaize Denfeld (UU-Department of Limnology)  
Roger Muller (UU-Department of Limnology)  
Sebastian Sobek (UU-Department of Limnology)  
Gesa Weyhenmeyer (UU-Department of Limnology)  
Lars Arneborg (University of Gothenburg)  
Hannah Chmiel (UU-Department of Limnology)  
Magnus Gålfalk (Linköping University)  
Sam Fredriksson (University of Gothenburg)  
Andreas Andersson (UU-Department of Earth Sciences)  
Birgit Koehler (UU-Department of Limnology)  
Charles Verpoorter (UU-Department of Limnology)  
Lars Tranvik (UU-Department of Limnology)  
Tiit Kutser (University of Tartu)  
Ann-Sofi Smedman (UU-Department of Earth Sciences)  
Anne Kellerman (UU-Department of Limnology)  
Marcus Wallin (UU-Department of Earth Sciences)  
Achim Grelle (SLU)  
Jason Ji (UU-Department of Limnology)  
Jovana Kokic (UU-Department of Limnology)  
Christian Gudas (UU-Department of Limnology)  
Gunnhild Riise (Norwegian University of Life Sciences)

### ***Tuesday, November 23, 2011***

9.30 Arrival and Coffee

10.00 Introduction and general presentation of CoW ( Anna Rutgersson)

10.30 A global estimation of the carbon emissions from inland waters ( David Bastviken, Lars Tranvik)

11.00 Resistances and convection, improving air-sea flux parameterizations ( Anna Rutgersson)

11.30 Deviating seasonal variations in carbon dioxide supersaturation between lakes and stream of the boreal region ( Gesa Weyhenmeyer)

12.00-13.00 Lunch

13.00 Dynamics and air-water exchange of CO<sub>2</sub> in boreal stream ( Marcus Wallin)

13.30 Air-lake exchange during ice formation, ice cover and ice melting ( Lise-Lotte Sörensen)

14.00 Under ice accumulation of CO<sub>2</sub> in lake and water subsequent spring Co<sub>2</sub> evasion (Blaize Denfeld)

14.30 Measuring gas fluxes at the lake-sediment interface (Sebastian Sobek)

15.00 Coffee

15.30 Inland water carbon from space, a remote sensing perspective (Tiit Kutser)

16.00- Discussion

18.30- Dinner

**Wednesday, November 24, 2011**

9.00 Results from flux measurements on Finland Eddy correlation - A presentation of the footprint concept ( Timo Vesala, Anne Ojala)

10.00 Coffee

10.30 Results from Tämnaren flux station( Erik Sahlée)

11.00 Determining transfer velocity from IR-camera (Magnus Gålfalk)

11.30 Greenhouse gas camera, presentation of a new technology ( Magnus Gålfalk, David Bastviken)

12.00-13.00 Lunch

13.00 A comparison study of gas fluxes from different EC instrumentation ( Achim Grelle)

13.30 Comparison between EC and chamber measurements ( Eva Podgrajsek)

14.00 Determining transfer velocity from dissipation measurements (Lars Arneborg)

14.30 Summarizing discussion

15.00 Coffee

Workshop end