

# Overview EGU 2015

## Contributions by ICLEA



### HS2.3.2

<http://meetingorganizer.copernicus.org/EGU2015/session/17242>

**Innovative sensing techniques and data analysis approaches to increase hydrological process understanding**

**Orals / Monday, 13 Apr 2015, 11:15, room R1**

### EGU2015-8685

Tracking the diurnal signal of plant water uptake through the hydrologic system

Theresa Blume, Sibylle Hassler, Ingo Heidbüchel, Markus Weiler, Sonia Simard, Andreas Güntner, and Ingo Heinrich

### CL1.6

<http://meetingorganizer.copernicus.org/EGU2015/session/17035>

**INTIMATE: INTegrating Ice core, MARine, and TERrestrial records 60-8 ka BP**

**Poster in Attendance Mon, 13 Apr, 17:30–19:00 / Yellow Posters**

### EGU2015-9826

Patterns and drivers of Early Holocene vegetation dynamics in Central Europe

Martin Theuerkauf

## ICLEA session

### CL5.6

<http://meetingorganizer.copernicus.org/EGU2015/session/17055>

**Integrated climate and landscape evolution analyses: bridging long proxy data time series and instrumental observation**

**Orals / Wed, 15 Apr, 08:30–12:00 / Room Y6**

### EGU2015-308

Varved sediments from Lake Czechowskie (Poland) reveal gradual increase in Atlantic influence during the Holocene

Florian Ott, Achim Brauer, Michał Słowiński, Sabine Wulf, Victoria Putyrskaya, Birgit Plessen, and Mirosław Błaszczewicz

### EGU2015-3360

Linking diatom deposition in a deep lake with the spring temperature gradient (Tiefer See, NE Germany)

Ulrike Kienel, Georgiy Kirillin, Brian Brademann, Birgit Plessen, and Achim Brauer

### EGU2015-9537

The Lateglacial and Holocene history of annually laminated Lake Tiefer See

Martin Theuerkauf, Nadine Dräger, Reinhard Lampe, Sebastian Lorenz, Ulrike Kienel, Manuela Schult, Michał Słowiński, Sabine Wulf, Izabela Zawiska, and Achim Brauer

### EGU2015-130

Estimating seasonal and annual lake level changes of groundwater-fed lakes in northeastern Germany using RapidEye archive data

Iris Heine, Julian Oeser, Sibylle Itzerott, and Birgit Kleinschmit

### EGU2015-1806

Climate reconstructions from tree-ring widths for the last 850 years in Northern Poland

Ingo Heinrich, Antje Knorr, Karl-Uwe Heußner, Tomasz Wazny, Michał Slowinski, Gerhard Helle, Sonia Simard, Tobias Scharnweber, Allan Buras, Wolfgang Beck, Martin Wilmking, and Achim Brauer

### EGU2015-3303

Tuning the voices of a choir: Introducing a new tool to enhance the signals that are stored in tree-ring archives

Allan Buras, Ernst van der Maaten, Tobias Scharnweber, Sonia Simard, Ingo Heinrich, Gerd Helle, Marieke van der Maaten-Theunissen, Pascal Eusemann, Martin Schnittler, and Martin Wilmking

**Poster in Attendance Wed, 15 Apr, 17:30–19:00 / Yellow Posters**

### EGU2015-3547

Florian Hirsch, Anna Schneider, Alexander Nicolay, Mirosław Błaszczewicz, Jarosław Kordowski, Agnieszka M. Noryskiewicz, Sebastian Tyszkowski, Alexandra Raab, and Thomas Raab

Late Quaternary landscape development at the margin of the Pomeranian phase (MIS 2) near Lake Wygonin (Northern Poland)

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### **EGU2015-13142**

Sebastian Tyszkowski and Halina Kaczmarek

Transformation of wetlands in the NE part of the Tuchola Pinewoods over the last 200 years on the basis of cartographic materials

### **EGU2015-6746**

Knut Kaiser, Ingo Heinrich, Iris Heine, Marco Natkhin, Ralf Dannowski, Gunnar Lischeid, Thomas Schneider, Johanna Henkel, Mathias Küster, Karl-Uwe Heussner, Oliver Bens, and Jana Chmielecki

Multi-decadal lake-level dynamics in north-eastern Germany as derived by a combination of gauging, proxy-data and modelling

### **EGU2015-9368**

Elisabeth Dietze, Izabela Zawiska, Michał Słowiński, and Achim Brauer

Holocene lake level changes at a lowland lake in northeastern Germany inferred from acoustic sub-bottom profiling and a transect of sediment cores

### **EGU2015-312**

Mateusz Kramkowski, Anna Filbrandt-Czaja, Florian Ott, Michał Słowiński, Rik Tjallingii, Mirosław Błaszczewicz, and Achim Brauer

A new varved late Glacial and Holocene sediment record from Lake Jelonek (North Poland) - preliminary results

### **EGU2015-12020**

Izabela Zawiska, Monika Rzodkiewicz, Agnieszka M. Noryśkiewicz, Milena Obremska, Florian Ott, Mateusz Kramkowski, Michał Słowiński, Mirosław Błaszczewicz, and Achim Brauer

Late Glacial lakes – uniform or contrasting ecosystems?

### **EGU2015-337**

Nadine Dräger, Brian Brademann, Martin Theuerkauf, Sabine Wulf, Rik Tjallingii, Michał Słowiński, Norbert Schlaak, Mirosław Błaszczewicz, and Achim Brauer

Unexpected spontaneous ignition of Late Glacial sediments from the palaeolake Wukenfurche (NE Germany)

### **EGU2015-10728**

Monika Rzodkiewicz, Thomas Hübener, Florian Ott, Mateusz Kramkowski, Milena Obremska, Michał Słowiński, Izabela Zawiska, Mirosław Błaszczewicz, and Achim Brauer

Diatom-based reconstruction of the Lake Czechowskie trophy status in the last 2000 years (Tuchola Forest, Northern Poland)

### **EGU2015-3385**

Philipp Hoelzmann, Nadine Dräger, Ulrike Kienel, Florian Ott, and Achim Brauer

Heavy Metal Enrichment History in annually laminated Lake Tiefer See (NE-Germany) and Lake Czechowskie (N-Poland)

### **EGU2015-322**

Miriam Groß-Schmölders, Nadine Dräger, Ulrike Kienel, and Achim Brauer

Development of anoxia during the last 90 years in Lake Tiefer See, NE Germany

### **EGU2015-9319**

Miriam Groß-Schmölders, Florian Ott, Dariusz Brykała, Piotr Gierszewski, Michał Kaszubski, Ulrike Kienel, and Achim Brauer

Monitoring climate signal transfer into the varved lake sediments of Lake Czechowskie, Poland

### **EGU2015-13422**

Birgit Plessen, Ulrike Kienel, Nadine Dräger, and Achim Brauer

Nitrogen isotopes in lake sediments (Tiefer See, NE Germany) and their potential for paleoenvironmental and human impact reconstruction

### **EGU2015-9603**

Tobias Scharnweber, Andrea Hevia Cabal, Ernst van der Maaten, Allan Buras, and Martin Wilmking

One sample is not enough: Differences and similarities in element concentrations of tree rings in dependence of sampling direction and height along the stem

### **EGU2015-4703**

Bridging long proxy data time series and instrumental observation in the Virtual Institute of Integrated Climate and Landscape Evolution Analyses - ICLEA

Markus J. Schwab, Achim Brauer, Mirosław Błaszczewicz, Thomas Raab, Martin Wilmking and the ICLEA (\*) Team

# Overview EGU 2015 Contributions by ICLEA



## HS10.6

<http://meetingorganizer.copernicus.org/EGU2015/session/17295>

**Redistribution of water and solutes by vegetation: Patterns, processes, and interactions at the soil-atmosphere interface**

**Orals / Fri, 17 Apr, 13:30–15:00 / Room R11**

### EGU2015-12942

Tree species specific soil moisture patterns and dynamics through the seasons

Ingo Heidbüchel, Janek Dreibrodt, Sonia Simard, Andreas Güntner, and Theresa Blume

**Poster in Attendance Fri, 17 Apr, 10:30–12:00 / Red Posters**

### EGU2015-844

Species specific temporal patterns of throughfall and stemflow in deciduous and coniferous forests with implications for unsaturated zone and groundwater recharge processes

Janek Dreibrodt, Luisa Hopp, Sonja Germer, Markus Morgner, Andreas Güntner, and Theresa Blume

## HS10.9

<http://meetingorganizer.copernicus.org/EGU2015/session/18070>

**New developments in understanding ecohydrological systems and their interfaces**

**Poster in Attendance Fri, 17 Apr, 13:30–15:00 / Red Posters**

### EGU2015-10912

Interactions and feedbacks of a temperate lake ecosystem in NE Germany

Sonia Simard, Theresa Blume, Ingo Heidbüchel, Ingo Heinrich, Janek Dreibrodt, Andreas Güntner, and Gerhard Helle

## HS8.1.3

<http://meetingorganizer.copernicus.org/EGU2015/session/17272>

**Parameter estimation, inverse modelling and data assimilation in subsurface hydrology**

**Poster in Attendance Wed, 15 Apr, 17:30–19:00 / Red Posters**

### EGU2015-12468

Hydrogeology of a young moraine area in NE Germany: Testing hypotheses on subsurface structures with an iterative groundwater modeling approach

Henriette Wilke, Christina Tecklenburg, Andreas Güntner, and Theresa Blume

## SSS9.2/BG5.2/GM4.8/HS12.8

<http://meetingorganizer.copernicus.org/EGU2015/session/17476>

**Past and Present post-fire environments. The complex interaction among ash, soils, vegetation recovery and Human intervention**

**Orals / 10:00–10:15, Friday, 17 Apr 2015 Room: B2**

### EGU2015-3257

Charcoal kiln relicts – a favorable site for tree growth?

Allan Buras, Florian Hirsch, Ernst van der Maaten, Melanie Takla, Christin Rübiger, Roberto Cruz Garcia, Anna Schneider, Alexandra Raab, Thomas Raab, and Martin Wilmking

**Poster in Attendance Fri, 17 Apr, 17:30–19:00 / Blue Posters**

### EGU2015-3574

Effects of historic charcoal burning on soil properties

Florian Hirsch, Anna Schneider, Alexandra Raab, Thomas Raab, Allan Buras, Ernst van der Maaten, Melanie Takla, Christin Rübiger, Roberto Cruz Garcia, and Martin Wilmking

### EGU2015-3949

Towards an inventory of historic charcoal production fields in Brandenburg, Germany

Anna Schneider, Melanie Takla, Alexandra Raab, Thomas Raab, Alexander Bonhage, Florian Hirsch, and Horst Rösler

# Overview EGU 2015 Contributions by ICLEA



**GM6.3/BG2.14/SS5.8**

<http://meetingorganizer.copernicus.org/EGU2015/session/18086>

**Linking evolution of landscapes, soils and biogeochemical cycles through models, novel approaches and soil records**

**Poster in Attendance Fri, 17 Apr, 17:30–19:00 / Blue Posters**

**EGU2015-3937**

Reconstructing spatial and temporal patterns of soil formation in an anthropogenic drift sand area in Northeastern Germany

Anna Schneider, Florian Hirsch, Thomas Raab, and Klaus-Peter Welcher