

WORKSHOP 3

Large scale observations of socio-hydrosystems: concepts, approaches, methods, data, challenges

FR BioEEnViS et l'EUR H2O'Lyon

Organisers : Mathis Messenger Thibault Datry (INRAE), Vincent Navratil, (Université Lyon 1), Oldrich Navratil, Barbara Belletti (UMR 5600 EVS)

As part of a project co-financed by the Research Federation FR BioEEnViS and the H2O'Lyon Graduate School on the theme of “large scales”, this interdisciplinary and international workshop focuses on the scientific and operational challenges of observing and analyzing freshwater socio-ecosystems at large scales (spatial and temporal). The aim is to exchange ideas with the scientific community (France, Europe and worldwide) and managers (multi-scale actors) on a national and international scale about, for example: concepts, tools, data, challenges, etc. The workshop will be led by the organizers with the collaboration of H2O'Lyon PhDs and postdocs working on the theme. It will include keynote presentations, a round table and participatory workshops.

Find the detailed programme on the next page.

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Programme

Horaires	Activité / sujet	Intervenants
9h	Welcome	
9h20	Introduction and programme	
9h35	The state of the world's rivers: Towards a policy-relevant picture of global-scale freshwater ecosystem health	Dave Tickner, Chief Freshwater Adviser at WWF-UK (EN)
10h10	Lessons from building a data foundation for global freshwater science	Bernhard Lehner, Associate Professor at McGill University (CA)
10h45	Break	
11h	Discussion points: <ul style="list-style-type: none"> Interdisciplinary and intersectoral experiences about large scale studies, management and policy from the point of view of users or producers of data and analysis on freshwater socio-ecosystems Efforts needed from the scientific community to support large-scale sustainable management of freshwater socio-ecosystems (data, outstanding questions, scientific practices, scientist positioning) 	Wouter van de Bund (European Commission Joint Research Centre - JRC), Stephan Stroffek (Water Agency Rhone-Méditerranée-Corse - AERMC), Dave Tickner (WWF-UK), Bernhard Lehner (McGill University)
12h30	Lunch	
14h	Workshops on best practices in large-scale analyses of freshwater Socio-ecosystems Starting the discussion from existing projects, the group will share experiences on three main questions:	
1.	Why do we work at the global scale? Benefits, limitations, and pitfalls of global studies.	Fanny Bourgeau, Liolia Bajemon, Barbara Belletti (project: GloUrb)
2.	How can and should we use secondary data? Leveraging imperfect metadata, quality checking, determining valid uses for data	Elea Pauliat, Paul Tissot, Vincent Navratil, Oldrich Navratil (project: Virome@tlas)
3.	How can we estimate and communicate model uncertainties? Validation vs. comparison, representativeness of training data, credibility of outputs, valid uses of model outputs	Leo Rasse, Leo Helling, Mathis Messenger (projects: Large-scale remote sensing of water and macrophyte cover)
16h	Break	
16h30	Discussion and next steps	
17h45	End	