



Panta Rhei – Everything Flows
Change in Hydrology and Society
IAHS Scientific Decade 2013-2022
www.iahs.info/pantarhei

Summary of the activity of the Panta Rhei Working Groups – Year 2014

Title of the Working Group:

Resilience-based management of natural resources: the fundamental role of water and soil in functional ecosystems

Report of the activity of the working group in 2014

The WG25 can look back to a very exciting and fruitful 2014:

24 June 2014:

Establishment of the group.

July 2014:

Discussions of connectivity research within an EU Cost Action, a fundamental aspect of Resilience-based management of natural resources, in Wageningen, Netherlands.

<http://connecteur.info/>

Participation in the second plenary assembly of the Global Soil Partnership, FAO.

<http://www.fao.org/globalsoilpartnership/en/>

August 2014:

Discussions of Arid Lands Restoration and Combat of Desertification within a EU Cost Action, further fundamental aspects of Resilience-based management of natural resources, in Timisoara, Romania.

<http://desertrestorationhub.com/>

Presentation on the value of ecosystem restoration at the biannual conference of the International Society for Ecological Economics in Reykjavik, Iceland.

<http://isee2014.yourhost.is/>

September 2014:

Start of a collaboration between IMO, University of Turino and Reykjavik University with in an MSc project on water resources modeling.

October 2014:

Participation in the Arctic Circle workshop regarding resilient based management of resources in the Arctic.

<http://en.ru.is/ise/programmes/arctic-workshop/>

November 2014:

Participation and submission of an EEA proposal on invasive species.

Participation in a workshop on model complexity vs. data availability regarding connectivity research in Aveiro, Portugal.

Presentation at a conference on Integrative Water Resource Management in Basel, Switzerland (title: Mitigation of land and water degradation by sustainable land management).

December 2014:

Resubmission of the key paper comparing model complexity with multiple dataset calibration to assess key processes of the water cycle relevant for Resilience-based water management (submitted to WRR).

Establishment of a web based data portal for WG members to perform research regarding resilient based management of an Icelandic study site.

<https://notendur.hi.is/dep1/IMO/demo.html>

Establishment of a new research group on “Resilience-based management of natural resources” at Reykjavik University.

Submission of a research proposal (with colleagues from the Federal University of Para, Brazil; Vietnam National University; and the Institute for Marine Sciences, Zanzibar) entitled "Extending nexus thinking to enable justice and equity in resilient mangrove social-ecological systems in Brazil, Vietnam and Zanzibar".

Agreement for the joint participation in a Special Issue edited by the Journal of Environmental Planning and Management. How to upscale traditional and innovative knowledge on water and land conservation is the main issue to be developed. Particular attention is going to be paid to social and policy implications. The deadline: end of March 2015.

Description of the opportunities provided by Panta Rhei

Please provide a brief description (max 150 words) of the benefits and opportunities provided by Panta Rhei (visibility, research fundings, new cooperations etc).

Up to now Panta Rhei has mainly provided a loose framework to group and collect research ideas. Incentives from target leaders of Panta Rhei would be welcomed to generate a focused input to the overall Panta Rhei objectives.

Suggestions for the future development of Panta Rhei

Please provide suggestions and criticism (max 150 words) on Panta Rhei. Would could Panta Rhei do better?

The target leaders of Phanta Rhei could establish and communicate incentives for WG to contribute to their targets. In particular we would like to recommend the following actions:

- Workshops to participate and present results from individual WG
- Direct communication to WG leaders of ongoing activities within the Panta Rhei target groups
- Joint research proposals lead by target leaders
- Joint publications