



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:

Physics of Hydrological Predictability

Report of the activity of the working group in 2014

1. In 2014, research activity of WG included:

- Writing papers reporting the progress of the WG science questions. Some published papers containing an explicit acknowledgement to Panta Rhei are listed at the Panta Rhei web site <http://distart119.ing.unibo.it/pantarhei/?q=node/27> as well as at the WG web site <http://www.phyp-wg.ru/publications.html>
- Organizing symposia (closely related to Panta Rhei) during scientific conference
 - Dr. Krysanova - convener of the IAHS-2015 symposia HW02 (Hydrological Model Intercomparison for Climate Impact Assessments)
 - Dr. Gelfan – co-convener of the above HW02 symposia
 - Dr. Groisman - convener of the EGU-2015 session BG5.1 (Environmental, Socio-economic and Climatic Changes in Northern Eurasia and their Feedbacks to the Global Earth System)
 - Dr. Krylenko – co-convener of the 3rd Remote Sensing and Hydrology Symposium & 3rd International Conference of GIS and Remote Sensing in Hydrology
- Promoting international cooperation. In 2014, the WG members participated in several international projects closely related to Panta Rhei, particularly, Inter-Sectoral Impact Model Intercomparison Project (ISI-MIP) initiated by the Potsdam Institute for Climate Impact Research (WG member Dr. Krysanova is one of the project leaders)

2. Educational activity - developing videos on education in hydrology for graduate students (in Russian)

Description of the opportunities provided by Panta Rhei

1. Visibility of the activity - WG web site <http://www.phyp-wg.ru>
2. Research fundings – part of the WG research activities was supported in 2014 by Russian Science Foundation (grant #14-17-00700 project title: “Physical mechanisms of extreme hydrological events sensitivity to climate change”). English version of the 1st project report is available at <http://phymex.hydromod.ru/results.html> (Alexander Gelfan, WG chair, is the principal investigator of the project)