Japan Geoscience Union Meeting 2014

(28 April - 02 May 2014 at Pacifico YOKOHAMA, Kanagawa, Japan)

©2014. Japan Geoscience Union. All Rights Reserved.



AHW07-P09

Room:Poster

Time: April 29 18:15-19:30

General discussion on insight into change and evolution in hydrology

TANI. Makoto¹*

¹Graduate School of Agriculture, Kyoto University

Fluctuations in the water and chemical cycles icluding floods, droughts, and water-quality impacts are influeced by long-term changes and/or evolutions in catchment properties and climate conditions. For example, to predict stormflow responses only from the cachment topography is difficult because the runoff mechanism is strongly controlled by bedrock-weathering and soil-evolution processes.

Such a concept of change and evolution is raised by IAHS, called 'Panta Rhei,' as its decadal intiative from 2013 following PUB (Predictions in ungauges basins), and the international disscussions have started.

In paralle with this activity, we are now conducting a project on dependences of rainfall-runoff responses on a temporally-nested structure of topographic, soil, and vegetation developments under the JSPS budget from 2011 to 2015.

In this session, presentaions addressing effects of natural changes and their interactions on the water and chemical cycles are encouraged, and changes originated from human influences including the disturbances and managements are also welcomed.

Keywords: general discussion