



UFZ-Seminar „Water and Environment“

10. April 2017, 3 p.m.

Seminar Room 1, Brückstr. 3a, Magdeburg



Steven R. Fassnacht

Prof. of Snow Hydrology, Colorado State University, USA

will give a talk on:

Climatic and Hydrologic Change across Central Mongolia: Data and Uncertainty

Arid and semi-arid countries, such as Mongolia, have been experiencing a more dramatic change in climate than many other parts of the globe. However, Mongolia is one of the most sparsely populated countries in the world, and as such has a very limited network of long term climate and hydrological monitoring. Much of these data are still collected manually and are not easily accessible. Climate change across Mongolia is presented from station data to demonstrated i) spatial changes, ii) the impact of length of record and missing data, iii) fine temporal resolution change, iv) changes in climate extremes, and v) the correlation to hydrological change. Focusing on the Khangai region of Central Mongolia, herder observations of change are compared to station-based trends. A newly developed tool for assessing conflict among different user groups is applied to the herder data to estimate uncertainty in climate change trends.