

Special Issue on  
**Snow Drought: Measurement, Modeling, and Analysis of  
Snow in Mediating Drought**

# CALL FOR PAPERS

Similar to groundwater, water stored above ground in the snow and ice provides an essential buffer against dry spells and a skillful predictor of seasonal water availability. Recent climatic changes have altered this critical water resource, impacting water availability and predictive capacity, aquatic habitat, and other ecosystem services. Irrespective of precipitation changes, warming temperatures are expected to shift precipitation phase from snow to rain, reducing snow magnitude and glacier extent, and shift melt timing earlier in the year. Changing snowpacks and glaciers will have important consequences for the characteristics of drought and may warrant new thinking for making predictions and reevaluation of long-term planning for future droughts.

In this special issue, we invite authors to contribute original research articles as well as review articles that will illustrate and stimulate the discussion around the role of snow and glacier meltwaters in mediating drought or documenting the potential impact of climate change on snow drought.

Potential topics include but are not limited to the following:

- ▶ Advances in snow and glacier hydrology theory and modeling
- ▶ Novel techniques in snow and ice measurements: both ground-based and remote sensing
- ▶ Advances in drought indices to capture snow-related drought
- ▶ Impact assessment of climate change on snow and glacier hydrology
- ▶ Impact of land cover change/management on snow hydrology
- ▶ Data assimilation techniques
- ▶ Identification of reservoir operation vulnerabilities and forecasting methods with respect to changing snow

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/amete/sdmma/>.

**Lead Guest Editor**

Mohammad Safeeq, University of California, Merced, USA  
*msafeeq@ucmerced.edu*

**Guest Editors**

Shraddhanand Shukla, University of California, Santa Barbara, USA  
*shrad@geog.ucsb.edu*

Ben Livneh, University of Colorado, Boulder, USA  
*ben.livneh@colorado.edu*

Tapan Pathak, University of California Agriculture and Natural Resources, Davis, USA  
*tpathak@ucanr.edu*

**Manuscript Due**

Friday, 7 April 2017

**First Round of Reviews**

Friday, 30 June 2017

**Publication Date**

Friday, 25 August 2017