

Special Issue on
**Advances in Short -Term Hydrometeorological
Predictions and Applications in Reservoir Operations**

CALL FOR PAPERS

Predicting weather, climate, and their environmental impacts, such as floods, droughts, and landslides, is still one of the main challenges of the 21st century with significant societal and economic implications. High-impact hydrometeorological events globally produce the most destructive and costly hazards of any weather-driven phenomena. Such phenomena cause direct impacts on operational hydrology. Reservoir operations around the world rely tremendously on short-term prediction and forecasting, which require a smaller degree of uncertainty than is currently available. Furthermore, despite significant progress over the last several decades, short term forecasting and warning for these events still lack the precision that could minimize loss of property and life, especially in developing nations.

In this special issue, we seek original research papers integrating the science of hydrology and meteorology, with an aim of enhancing the reliability of short-term hydrometeorological predictions (over days-to-weeks) of precipitation, streamflow, and evapotranspiration for reservoir operations, altogether impacting water supply and demand forecasts for water managers. The journal particularly welcomes research papers that deliver new insights into region-specific hydrologic processes and responses to changing meteorological conditions and land-surface feedbacks between hydrology and meteorology.

Potential topics include but are not limited to the following:

- ▶ Modeling, observing, and forecasting of processes related to water and energy fluxes and storage terms
- ▶ Improved short term hydrometeorological forecast models
- ▶ Improved application of coupled model outputs and other forecast products
- ▶ Improved representation of precipitation in complex terrain
- ▶ Impacts of climate and land use change on natural hydrologic processes and water resources and hydrologic and meteorological process observations, modeling, and prediction

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

Lead Guest Editor

Soni M. Pradhanang, University of Rhode Island, Kingston, USA
spradhanang@uri.edu

Guest Editors

Nir Y. Krakauer, City College of New York, New York, USA
nkrakauer@ccny.cuny.edu

Min-Hui Lo, National Taiwan University, Taipei City, Taiwan
minhuilo@ntu.edu.tw

Manuscript Due

Friday, 30 December 2016

First Round of Reviews

Friday, 24 March 2017

Publication Date

Friday, 19 May 2017