



Athira P.
Ph.D. IIT Madras
Assistant Professor, Civil Engineering
athira@iitpkd.ac.in, 04923-226469
<http://www.iitpkd.ac.in/people/athira>

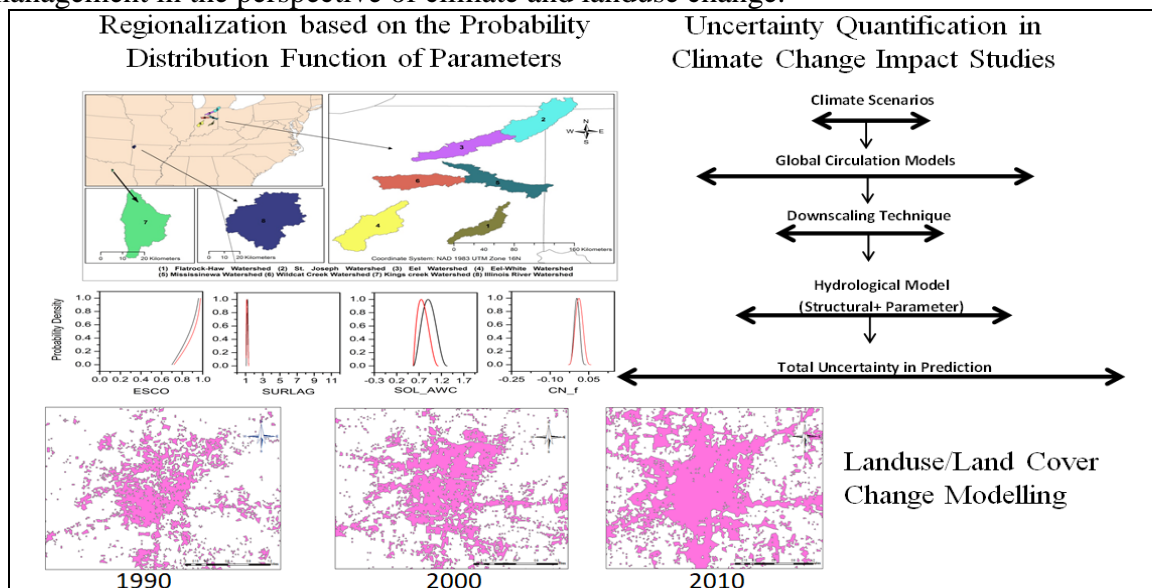


Research Interests

- Predictions in Ungauged Basin
- Climate and Landuse Change Impact Analysis
- Watershed Management
- Hydrological Modelling and Uncertainty Analysis

Brief Summary of Research

The ongoing research is on Quantification of Uncertainty in Regional Scale Climate Projections. The water resources planning and management using climate projections are highly uncertain in a regional scale. There is a need for reducing the uncertainty in regional scale climate projections and quantifying it for better planning and management of the natural resources. Watershed management is another area of interest and she has an ongoing project on watershed management in the perspective of climate and landuse change.



Projects

Improving the water availability in hilly rain shadow regions through appropriate water conservation measures, Department of Science and Technology, 2015-2020, INR. 35 Lakhs. (PI)

Drought Preparedness in Kerala: A comprehensive assessment with respect to climate change, Kerala State Council for Science Technology and Environment, 2018-2020, INR. 12 Lakhs (as Co-PI, PI: Dr. Subhasis Mitra)

Recent Publications

Vamsi Krishna Vema, Cicily Kurian, **Athira P.**, K P Sudheer, and I. Chaubey, 2019. Impact of calibration objective function on the performance of the hydrological model, ASCE-World Environmental and Water Resources Congress May, 2019.

P. Athira, C. Nanda, K. P. Sudheer, 2018. A computationally efficient method for uncertainty analysis of SWAT model simulations Stochastic Environmental Research and Risk Assessment, 32 (6) 1479–149.