



### Presenter

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### Key Findings from the U.S.-India Partnership for Climate Resilience Workshop on Development and Application of High Resolution Climate Modeling

As part of the Department of State U.S.-India Partnership for Climate Resilience (PCR), scientists from NOAA NCEI, CICS-NC, and Texas Tech University (TTU) held a series of workshops across northern and southern India in 2017 and 2018 on high resolution climate modeling activities. Expert scientists from TTU, NCSU, and IITM presented state-of-the-art climate downscaling techniques using the ARRM method, NASA NEX climate products, CORDEX-South Asia and analysis tools for resilience planning and sustainable development. PCR collaborators in attendance included India State Action Planners, researchers, solution providers and NGO including the WRI Partnership for Resilience and Preparedness (PREP), and The Energy and Resources Institute (TERI). The scientific techniques were provided to workshop participants in a software package written in R by TTU scientists and several sessions were devoted to hands-on experience with the software package.

The overall partnership and the workshop case studies represent an example of international adaptation and resilience activities that can be meaningful to applications in the Carolinas. The examined case studies on the use of downscaled climate data for decision making in a range of sectors, including human health, agriculture, water resources management and the India State Action Plans can provide meaningful lessons to similar activities for the Carolinas. This talk will discuss key outcomes and lessons learned as well as provide opportunities of the Carolinas case studies to be further applied in future workshops to be held in India.