



Monsoon Asia Integrated Research for Sustainability

A Global Research Project under Future Earth

Monsoon Asia Integrated Research for Sustainability-Future Earth (MAIRS-FE) is a regional consortium aiming to promote, facilitate, and enable integrated studies to significantly advance the understanding of the interactions between the human-natural components of the overall environment in the monsoon Asian region, and their implications for the global earth system, in order to support strategies for sustainable development. MAIRS-FE established an International Project Office (IPO) at Peking University, Beijing, China and a Regional Project Office (RPO) at the Indian Institute for Science, Bangalore, India.

Over the last decade, MAIRS-FE has focused on cross-cutting global change issues related to the unique Asian monsoon climate and topography, and developed links across the diverse cultures and societies of Asia. The research priorities of MAIRS-FE focus on water-energy-food (WEF) nexus, environmental health, disaster mitigation, and climate-related modeling and observations. For each of these priority areas, the specific goals are:



Through water-energy-food nexus study, the program aims to address the complex and interrelated issues of sustainable natural resource management related with water, food and energy by identifying and balancing the trade-offs among different stakeholders, facilitating synergy and allowing for more integrated and cost-effective planning, decision-making, implementation, monitoring and evaluation.



Through research on air quality and climate related human health issues, the program aims to identify the determinants of health risk of air pollution and climate change, providing support to cost-effective and science-based air quality management and/or climate mitigation/adaptation policies in Monsoon Asia, especially for those countries with greatest health burden.



Through research on climate-related natural disasters and mitigation, the program aims to enhance the resilience of local communities to natural disasters in monsoon Asia, associated with greater cooperation across the region in order to improve communication and understanding.



Through climate related observation and modeling in monsoon Asia, the program aims to provide information, data and analysis tools for cross-cutting and regional studies for sustainability and to promote application of modeling and research outputs.

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