



Ministry of Earth Sciences  
Government of India

## National Monsoon Mission (NMM)



# Call for Research Proposals

Ministry of Earth Sciences (MoES), Government of India is launching 'National Monsoon Mission' (NMM) with a vision to develop a state-of-the-art dynamical prediction system for monsoon rainfall on different time scales. MoES has bestowed the responsibility of execution and coordination of this mission to the Indian Institute of Tropical Meteorology (IITM), Pune. For this national mission, IITM is collaborating with NCEP (USA), MoES organizations and various academic institutions/organizations under NMM. Climate Forecast System (CFS) of NCEP, USA has been identified as the basic modelling system for the above purpose, as it is one of the best among the currently available coupled models. However, it has a moderate skill for retrospective forecast (hindcast) of seasonal monsoon rainfall and this skill needs to be improved to make the forecasts more useful. Thus, there is an urgent need to develop an Indian model based on CFS coupled model with an improved hindcast skill so that it can be transferred to the India Meteorological Department for operational forecasting.

With this objective, IITM is inviting research proposals from Indians residing in India only on the following broad areas:

- \* Improvement of CFS model for improving hindcast skill of dynamical prediction of monsoon rainfall on all different time scales (short, medium, extended and seasonal) over Indian region.
- \* Improvement in atmospheric/oceanic processes, model parameterization schemes, etc. in CFS model.
- \* Improvement of CFS model's performance and portability on different operating systems (OS).
- \* Integrating various Earth system modules into CFS model.

Research proposals in the prescribed format should be submitted through proper channel (hard copy) to

**Director**

Indian Institute of Tropical Meteorology  
Dr Homi Bhabha Road, Pashan, Pune 411 008

For proposal format and details, kindly visit: <http://www.tropmet.res.in>

The envelope should be clearly superscripted '**NMM PROPOSAL**'.

Last date for proposal submission: **30 August 2011**

A soft copy of the proposal is also required to be sent to: [monsoon\\_mission@tropmet.res.in](mailto:monsoon_mission@tropmet.res.in).