

Abstract of Present Research Work

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Presently I am working as Research Fellow at Global Change Impact Studies Centre (GCISC) Islamabad, Pakistan. In the beginning conducted some test simulations using the regional climate model RegCM3 and studied the related literature to get familiar with the climate modeling. The first task given to me was to conduct a study in which some extreme climate events were simulated using RegCM3. The main purpose of this study was to see how good the model is in capturing the extreme events. I have also presented a paper based on this study in the APN-CAPaBLE Regional Workshop on Climate Change Scenarios for South Asia held in Kathmandu, Nepal 15-19 August 2005.

The project assigned to me right now is the development of fine scale scenarios for the South Asia region using the regional climate model RegCM3. I have been involved in the model improvement phase as decided in the Kathmandu workshop and for this conducted number of simulations. At the same time also addressed some technical issues regarding the code of the model. All this was done under the guidance of PWC group of ICTP through e-mail conversation.

Once the results were found satisfactory, started the final runs. The model is being run for a thirty year period for reference (i.e. 1961-1990) and future (i.e. 2039-2069 and 2071-2100) with two different datasets (i.e. ECHAM and FVGCM). For future runs we are using A2 scenarios.

Now I am responsible for maintaining these runs which are going well and at the same time working on scripts in Ferret for the analysis.