



**The Abdus Salam
International Centre for Theoretical Physics**



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**Fifth ICTP Workshop on the Theory and Use of Regional Climate
Models**

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Sensitivity experiments with RegCM-4

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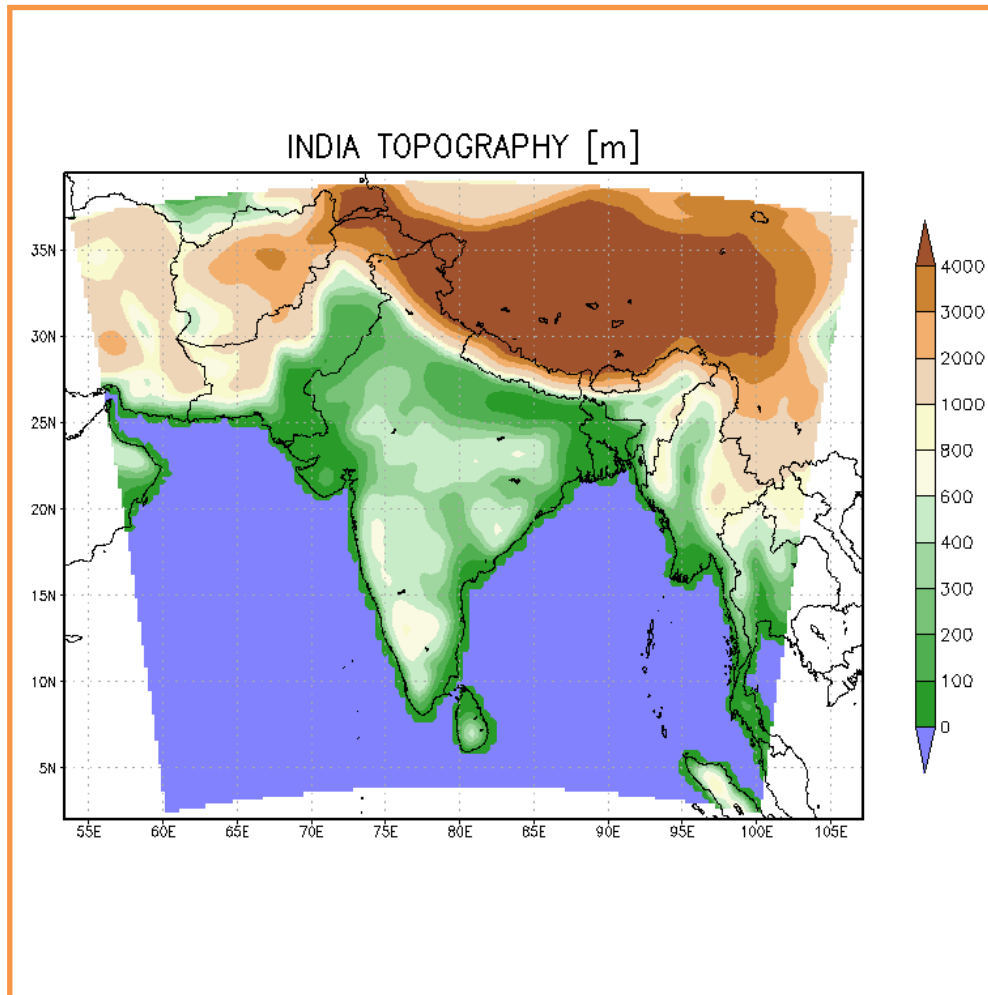
Sensitivity experiments with RegCM-4

CLM versus BATS : An Indian Scenario

Effect of land use change on Indian Monsoon precipitation

Objectives:

- Testing the RegCM 4



Domain

80 X 96

Spatial Resolution

50 km

Time Period

May-September (2003)

One month spinup

Convective scheme

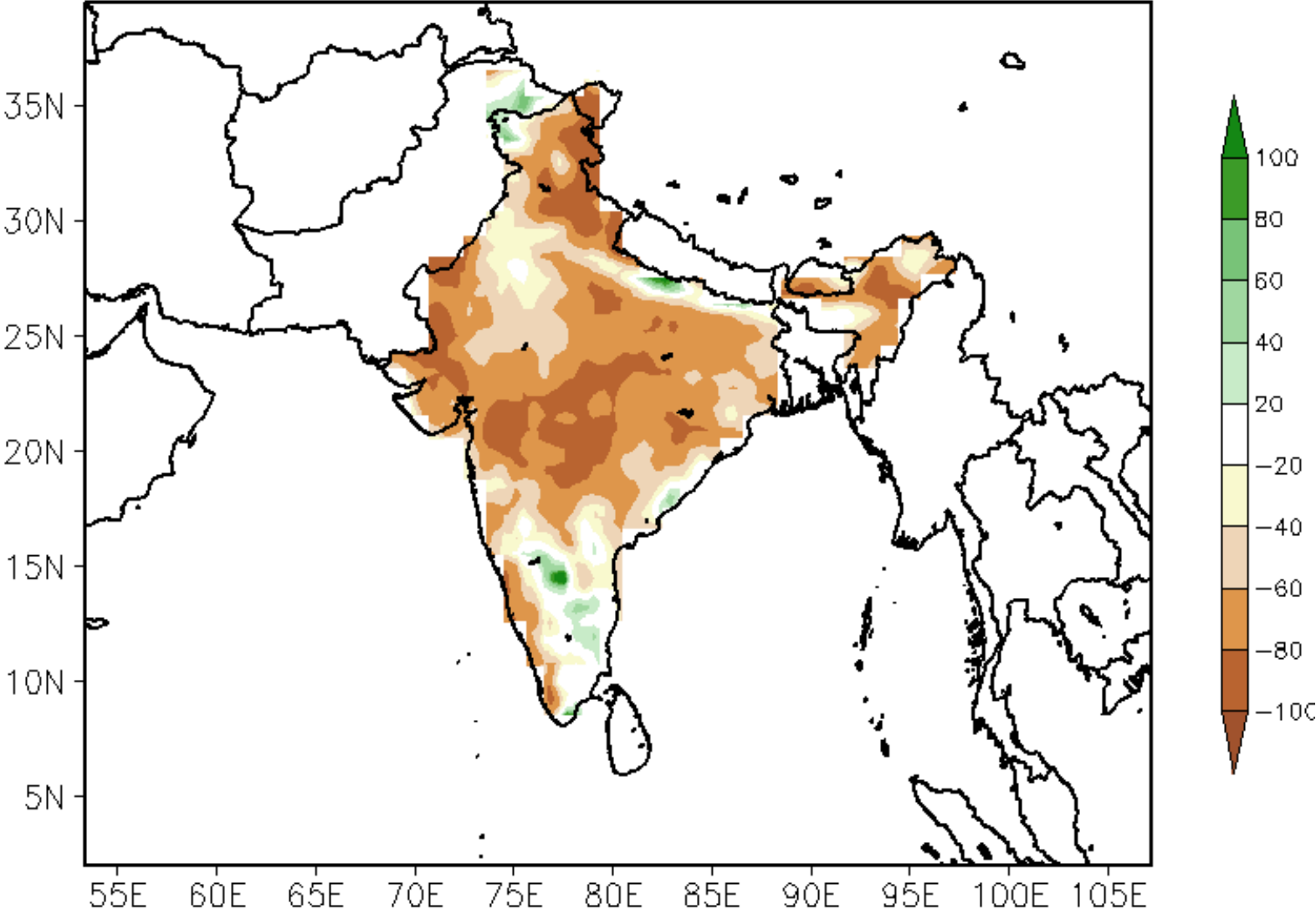
Grell (FC)

Experiment Details

1. BATS
2. CLM
3. BATS-LU

Challenges in modeling monsoon precipitation over India

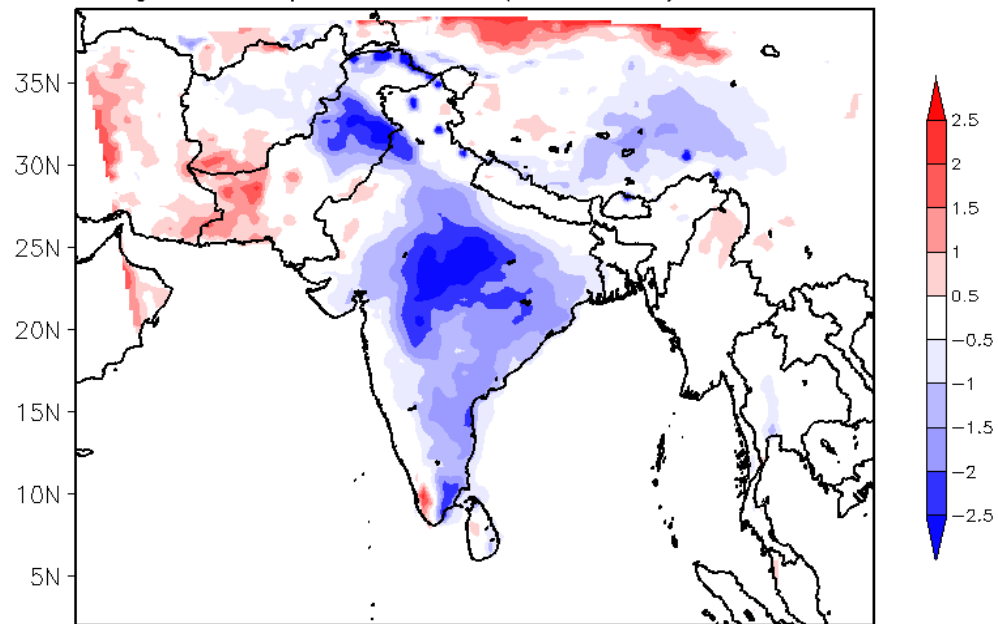
RegCM4 Precipitation Diff (BATS-OBS) (%) 2003 JJAS



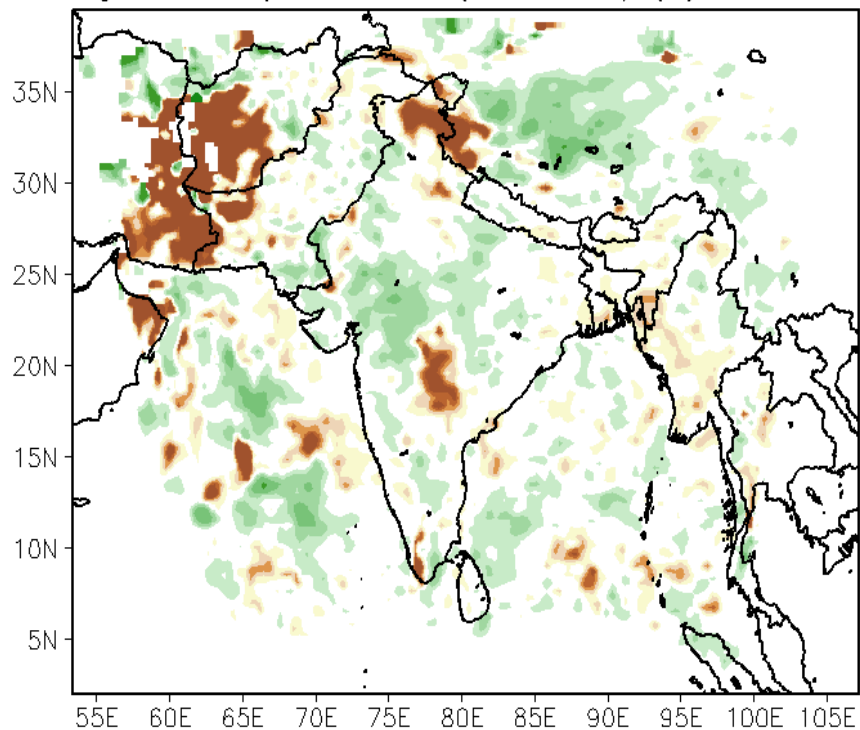


BATS versus CLM

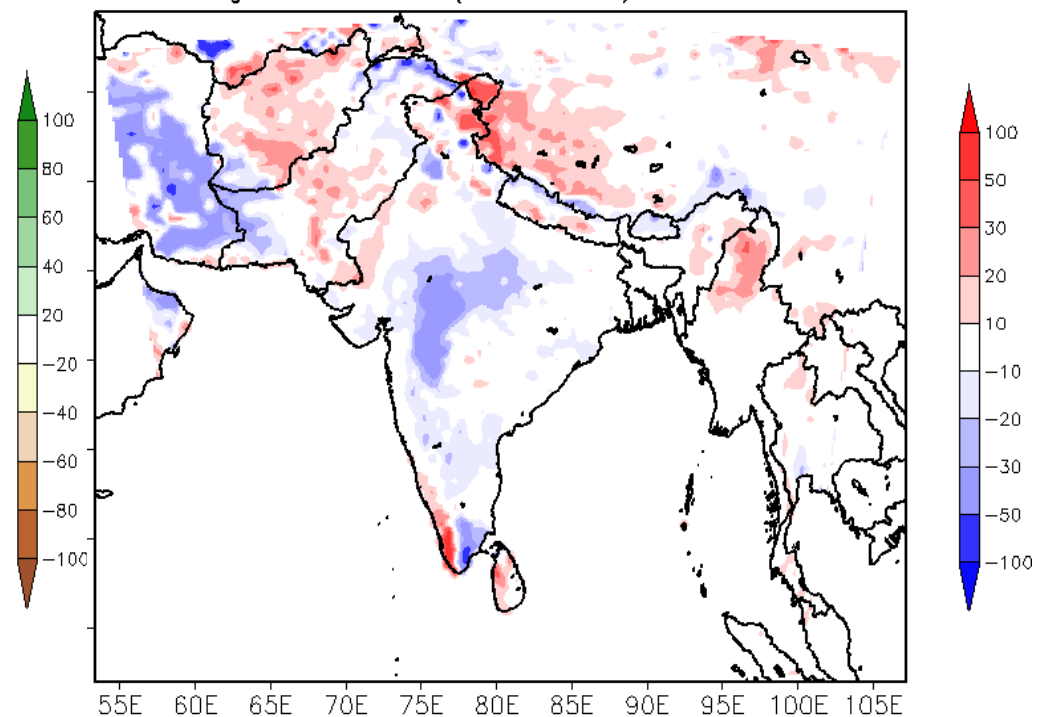
RegCM4 Temperature Diff (BATS-CLM) 2003 JJAS



RegCM4 Precipitation Diff (BATS-CLM) (%) 2003 JJAS

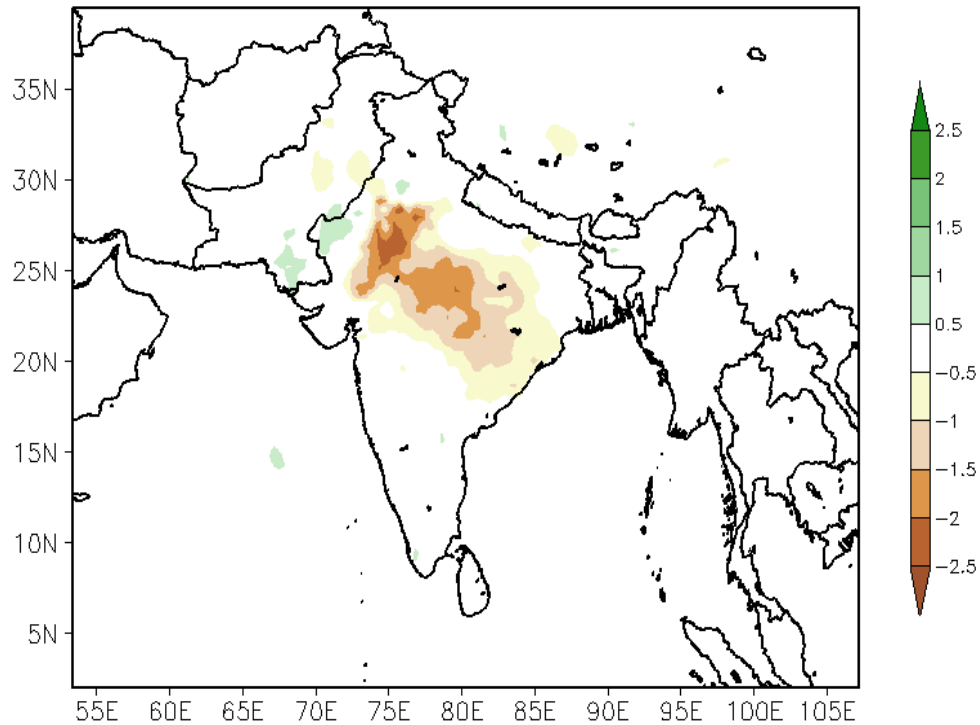


RegCM4 SH Diff (BATS-CLM) 2003 JJAS

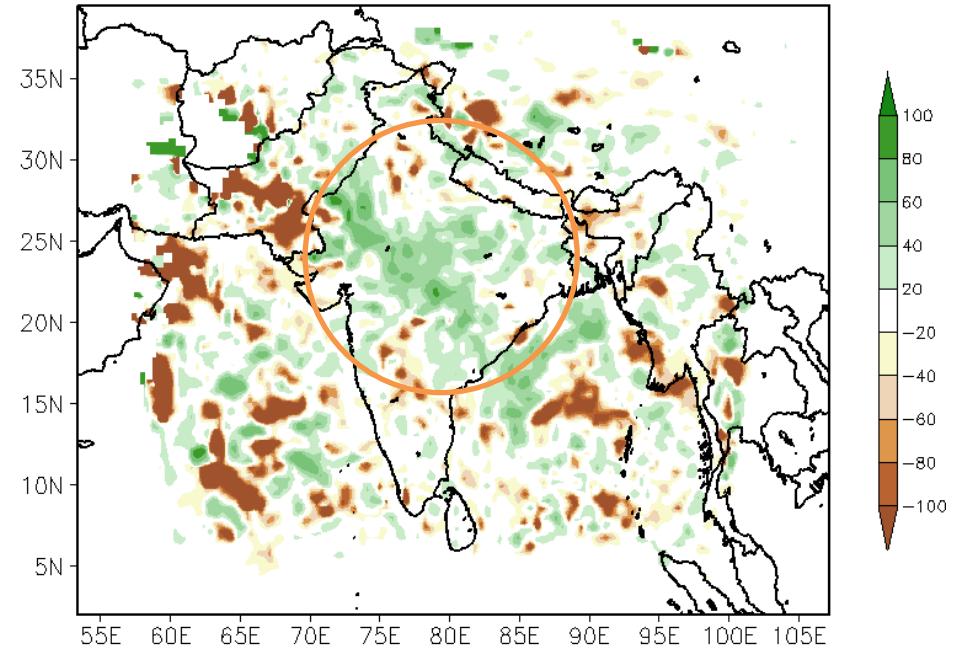


Land use change on Precipitation

RegCM4 Temperature Diff (BATS-BATSLU) (%) 2003 June



RegCM4 Precipitation Diff (BATS-BATSLU) (%) 2003 June



No conclusions
Just for testing the RegCM 4

THANK YOU