



2148-Presentations

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

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Southern Africa simulations

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Southern Africa simulations

Marshall & Munishi

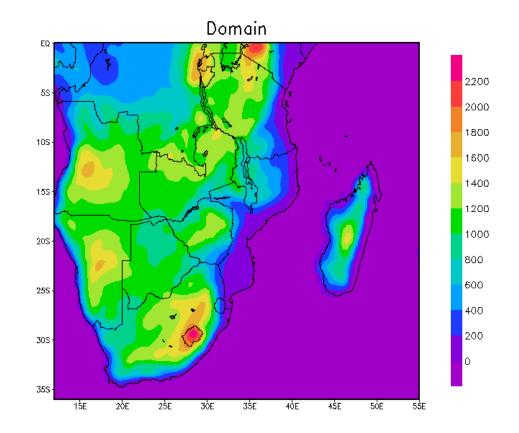
Group 4



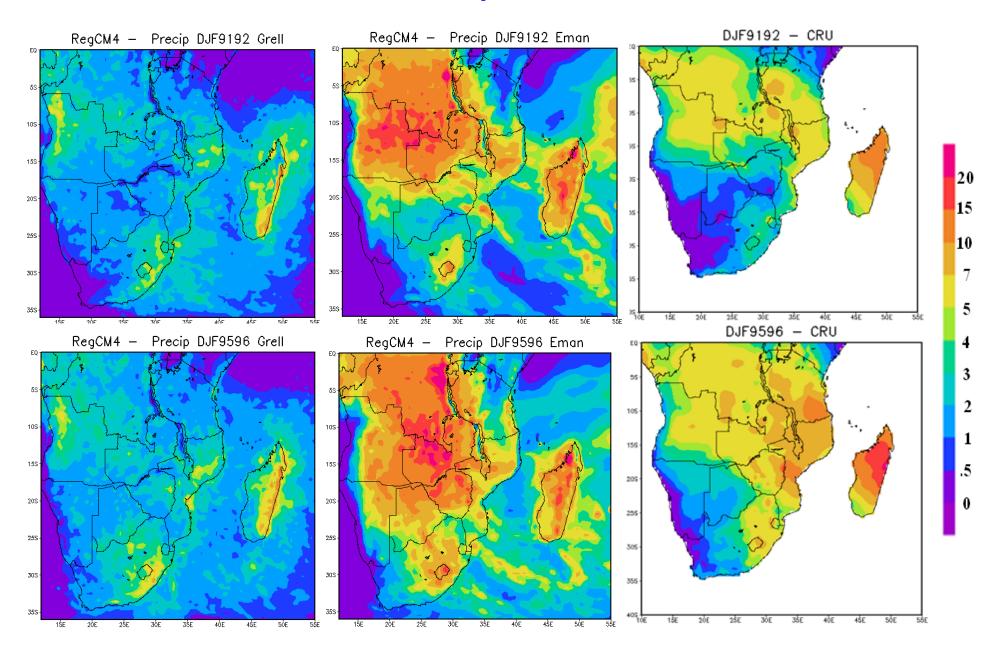


Experiments

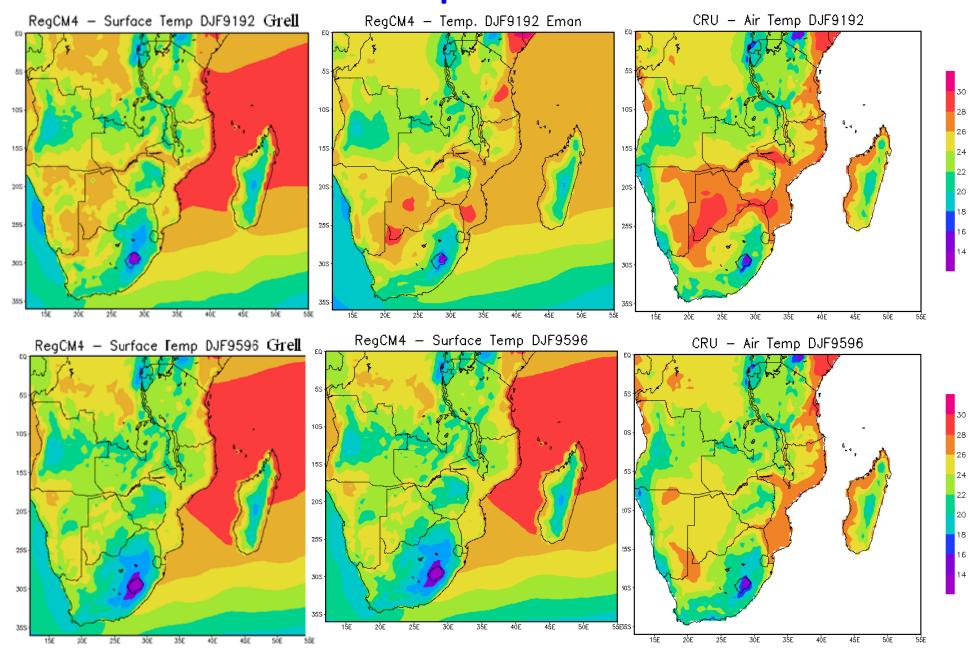
- DJF 1991/92 and DJF 1995/96 simulations with Grell and Emanuel schemes.
- Lateral and Boundary conditions – EIN, OI_WK SST, BATS
- 50km resolution



Precipitation



Temperature



Preliminary Results

- Grell scheme does well with temperature but tends to underestimate precipitation especially in the sub-tropics.
- Eman scheme does well with temperature but tends to overestimate precipitation although it captures the spatial distribution.

Problems

- Failed to complete some CLM simulations during the "Fabian's aerosol-bug era" always hanging after first month simulation.
- No response to soil perturbation change in code as final simulation similar to control.
- Post-processing some of the quick ones like rcm2netcdf have so many missing variables if trying to view with Grads, Bi's process is what I will adopt.

Grazie





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