Performance of RegCM3 in Simulating Western Africa Present Time Climate


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OUTLINE
- INTRODUCTION
- MODEL CONFIGURATION
- PRELIMINARY RESULTS
  - Temperature
  - AEWs
- CONCLUSION

MOTIVATION
- PRESENT UNIQUE FEATURES OF REGION
- DROUGHT
- DESERTIFICATION
- DEFORESTATION

MAIN CLIMATOLOGICAL FEATURES
- LOWER TROPOSPHERE (MONSOON)
- MIDDLE TROPOSPHERE (AEJ)
- UPPER TROPOSPHERE (TEJ)
- Easterly Waves dynamical features modulating rain producing systems
- MCS, -

MODEL CONFIGURATION
- Spatial resolution:
  - Horizontal - 40 km
  - Vertical - 18 levels
- Run length: 16 years
  - 01/01/1988 to 01/10/2003
- Initial & lateral boundary conditions: NNRP2

CONCLUSION AND OUTLOOK FOR FUTURE RESEARCH
- GENERAL PATTERNS OF TEMP. WELL CAPTURED WITH FEW DISCREPANCIES (LOCALLY)
- PATTERNS PRECIP. FAIRLY CAPTURED WITH THIS CONFIGURATION OF THE MODEL
- COMPARED TO CRU THE INTERANNUAL VARIABILITY WELL SIMULATED
- CONFIGURATION SUITABLE FOR CLIMATE CHANGE PROJECTIONS? SEASONAL FORECAST DOWNSCALING AND SENSITIVITY STUDIES.