

General Aims and Plans for CORDEX

Provide a set of Regional Climate Scenarios (1950-2100) for the majority of the populated land-regions of the globe.

Evaluate this data and make it readily available and useable to the climate research and impact-adaptation communities.

Provide a generalized framework for testing, applying and comparing Regional Climate Models and Downscaling techniques for both the recent past and future scenarios.

Foster coordination between Regional Downscaling efforts around the world and encourage participation in the regionalization process of local scientists/organizations

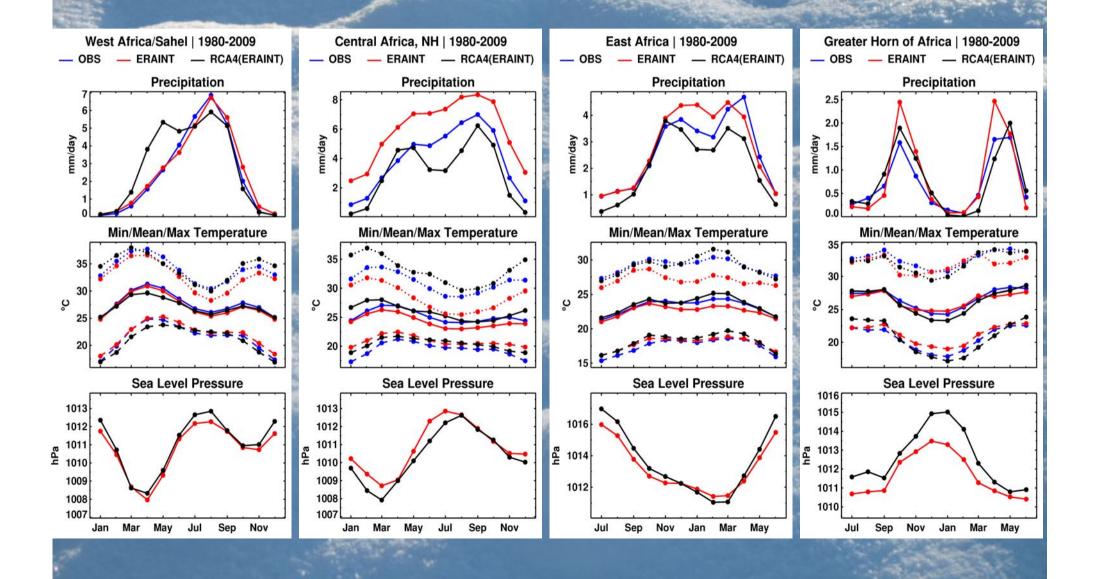
Engage and provide training/support for developing nation scientists

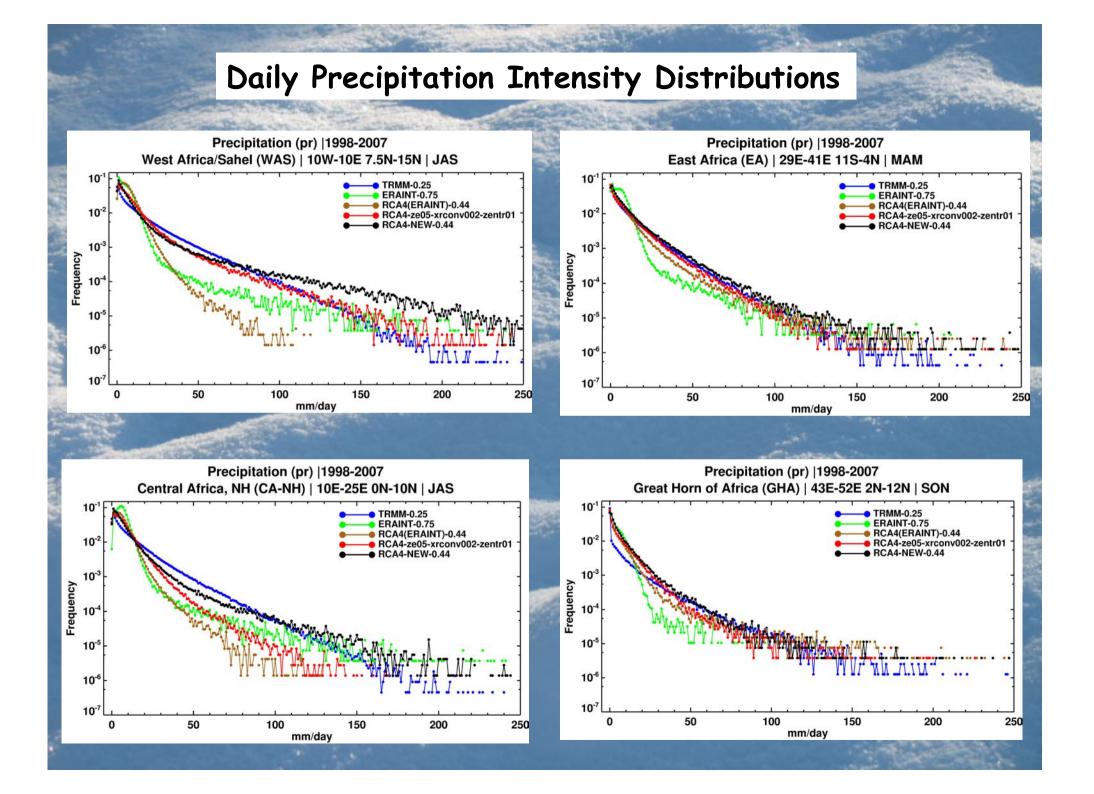
http://www.wcrp-climate.org/index.php/key-deleverables/regional-climat6

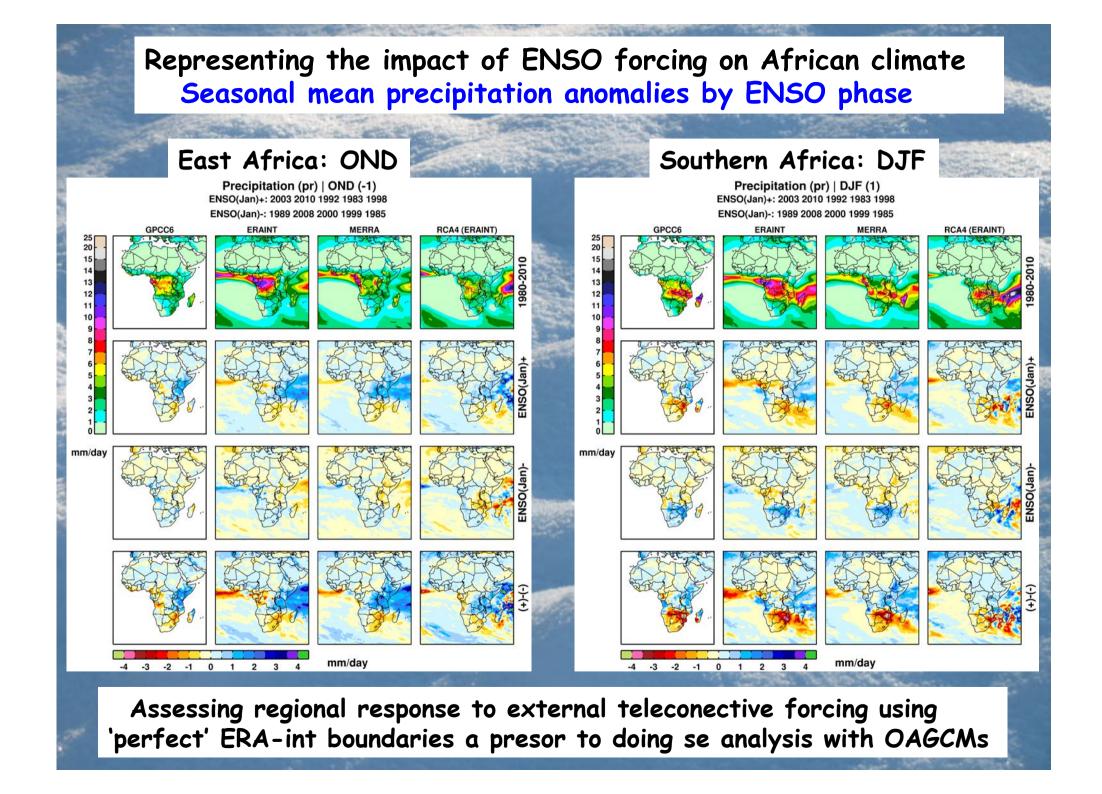
http://wcrp-cordex.ipsl.jussieu.fr/

http://cordexesg.dmi.dk/esgf-web-fe/

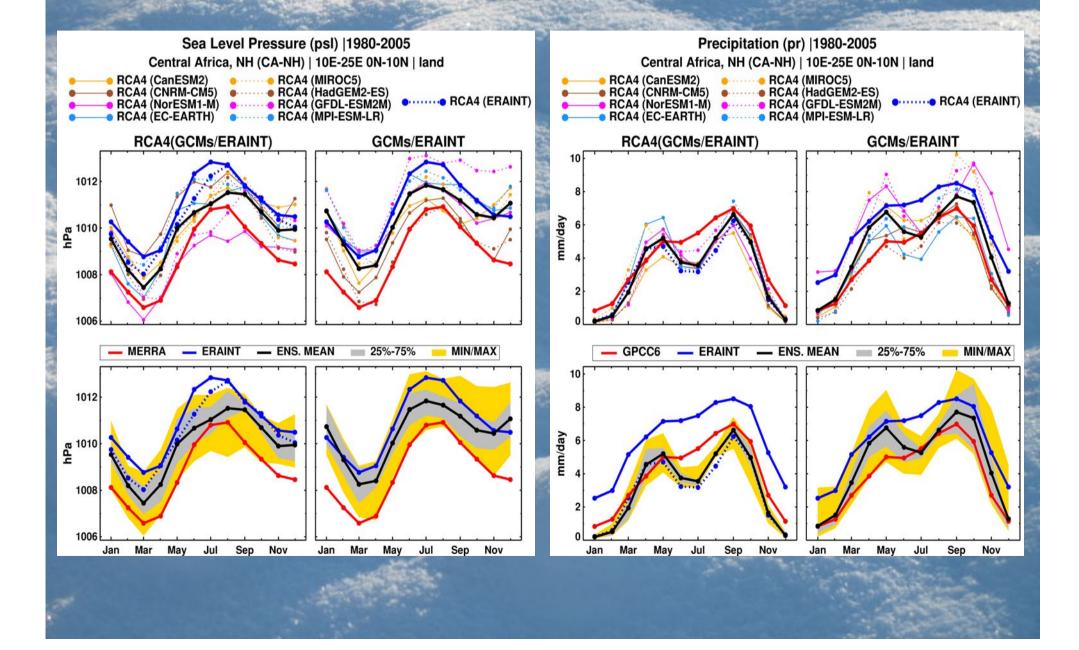
Evaluating ERA-interim forced runs: Africa Area mean climatological Annual Cycles

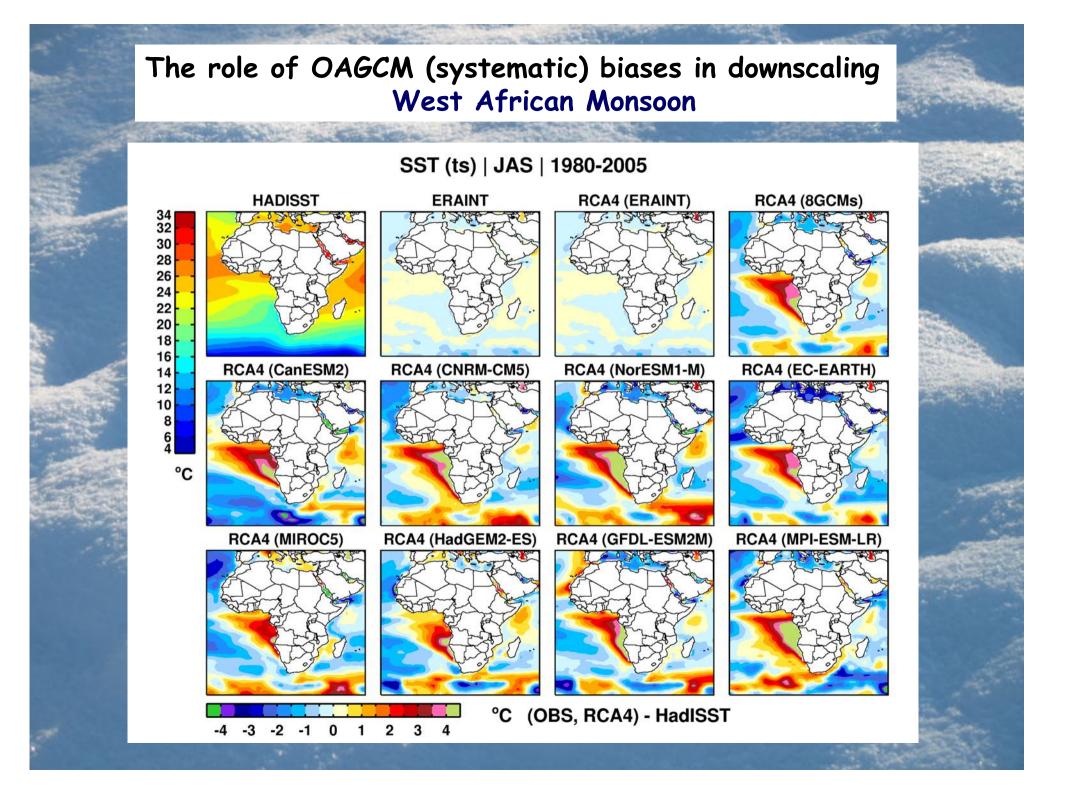


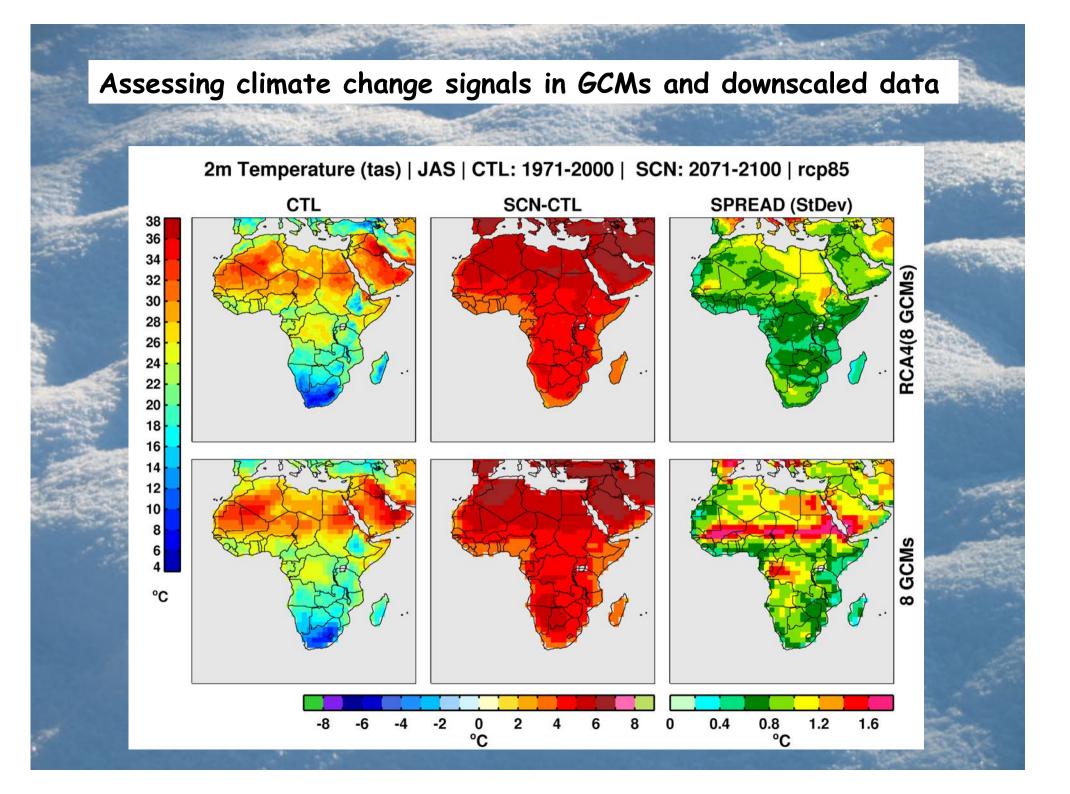


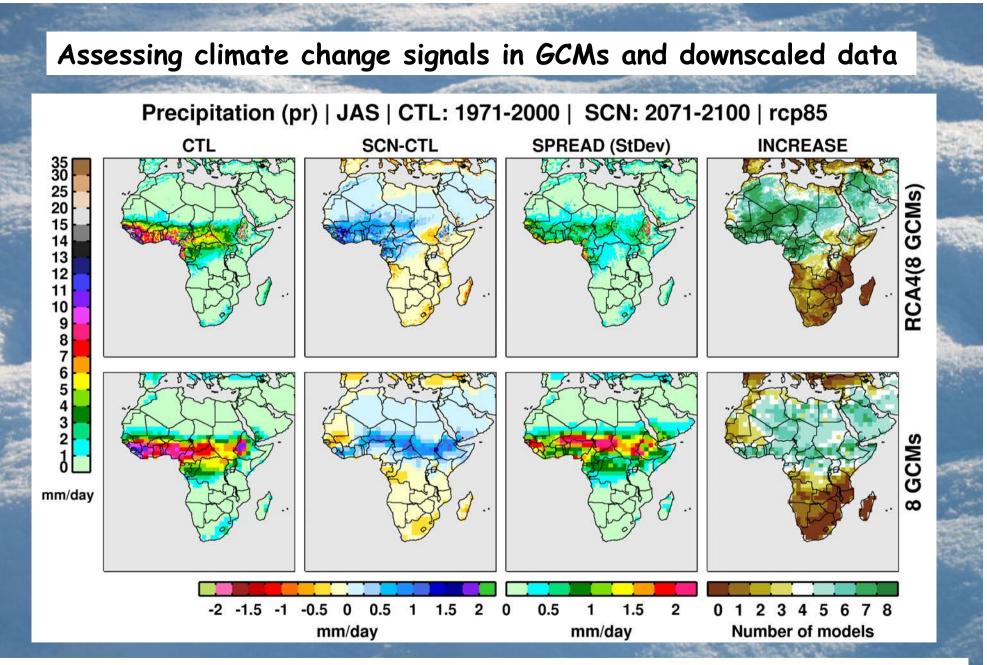


Comparing RCM downscaling of parent GCMs: Africa



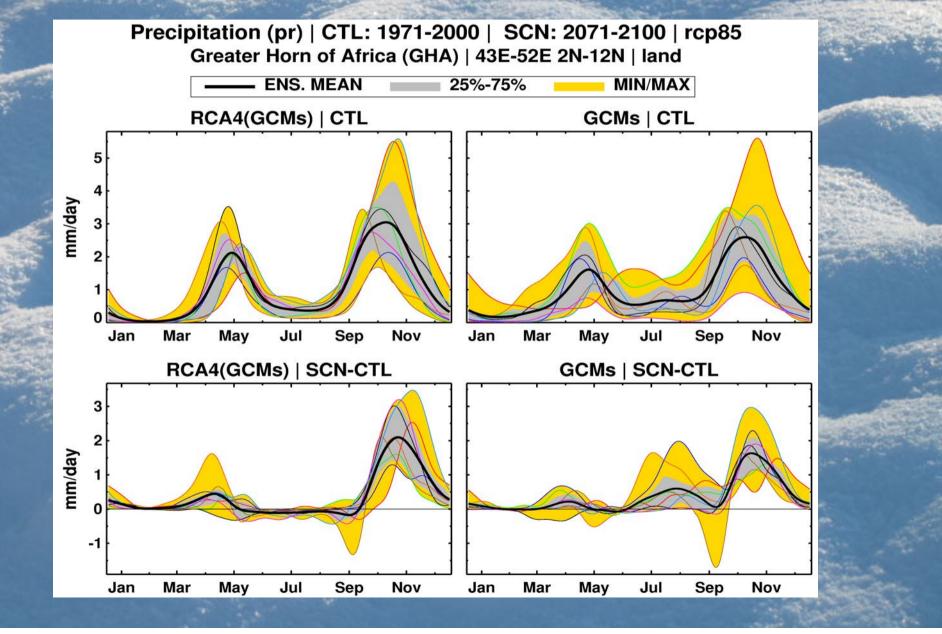


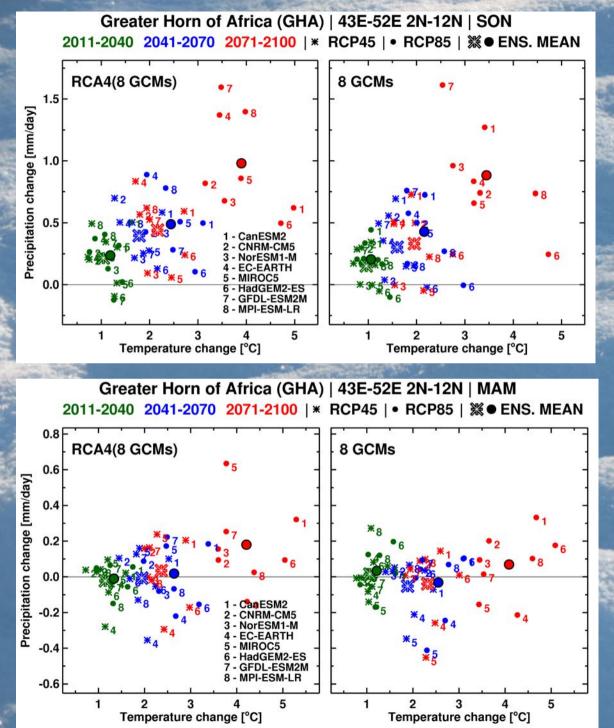




Reduced spread in RCA4 ensemble shows RCA4 physics coming through strongly. This needs to be presented carefully combined with a wider RCM(GCM) ensemble



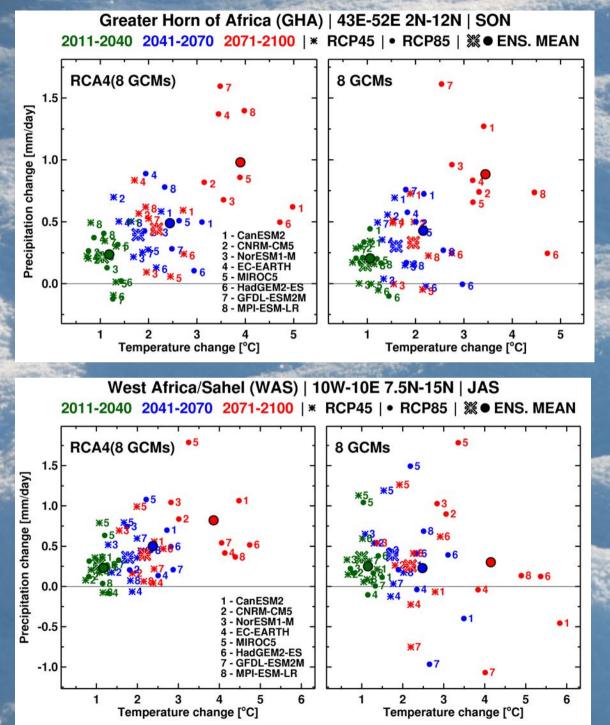






Area-mean, seasonal change in precipitation versus 2m temp change For three 30-year mean periods and 3 RCPs

8 RCA4 projections and 8 driving GCM changes

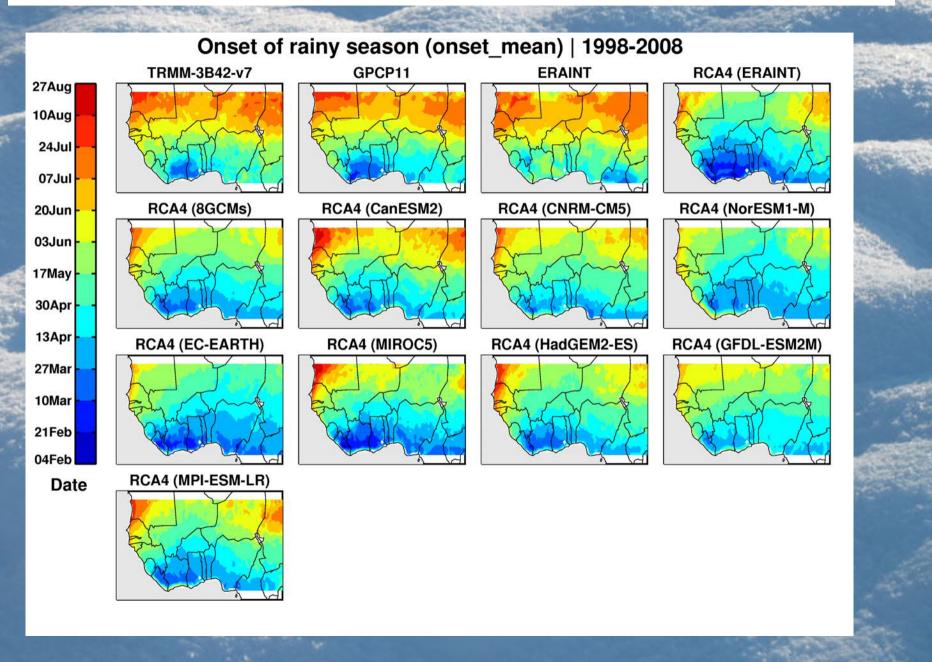




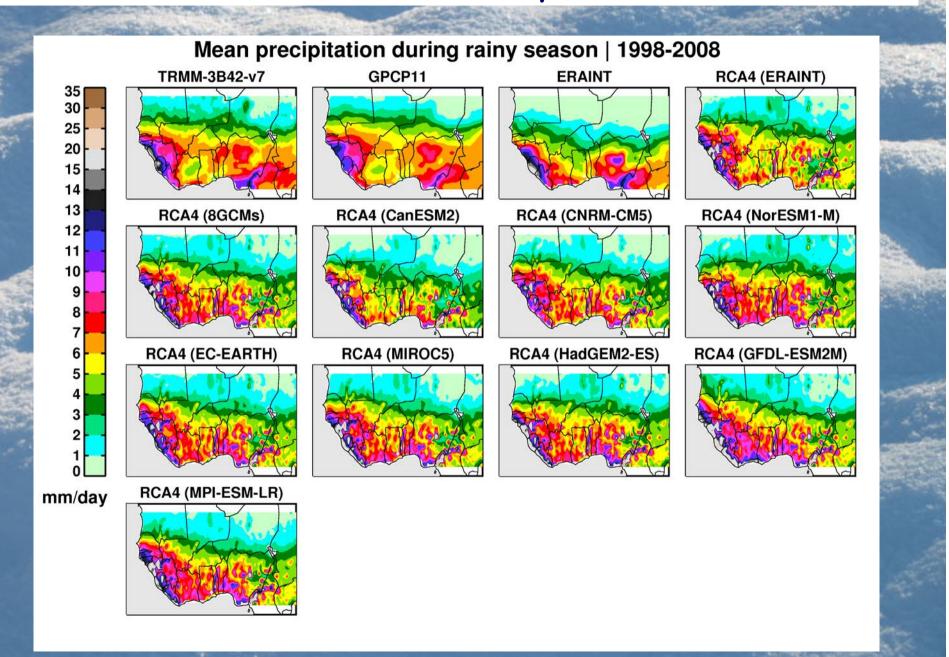
Area-mean, seasonal change in precipitation versus 2m temp change For three 30-year mean periods and 3 RCPs



User oriented evaluation: Onset date of West African Monsoon



User oriented evaluation: Mean intensity of West African monsoon



CMIP6

CORDEX now a core project under WGRC this is the main point of contact for CORDEX and user/IAV needs. WGRC Developing a questionnaire for IAV community to be ready or ICCS3 Dec 2013.

For dynamical downscaling 6 hourly surface and model level variables are required.

Interesting to get updated LBCs from an ensemble of high resolution GCMs for near term CC (e.g. increased synoptic energy in LBCs)

DEC/core CMIP6 historical and RCP-like future simulations Interesting to get LBCs.

Decadal hindcasts: (Statistical) Downscaling for climate services ?

User oriented evaluation: Length of West African rainy season

