

## **Implications of climate change for water resources and agriculture in Southern Africa**

Michael Kent<sup>†</sup>;

<sup>†</sup> Climate Systems Analysis Group, South Africa

Leading author: [mkent@csag.uct.ac.za](mailto:mkent@csag.uct.ac.za)

The CORDEX-Africa analysis initiative was developed to investigate the multi-model ensemble of regionally downscaled data for the African continent. High-resolution climate data from the CORDEX-Africa project is used to run impact models. This is to assess the extent to which climate change is likely to impact water resources and agriculture in southern Africa. Impacts on water resources are assessed on the basis of changes in terrestrial water (mainly surface runoff) over selected catchments. Projected changes in crop yields are used to quantify the extent to which agricultural production is likely to respond to global warming to inform adaptation strategies for southern Africa.