Proposed MPI-M tasks with BMBF proposal BIOTA South - Phase 3 First task: Evaluate existing future climate change projections for southern Africa. Conduct three very high resolution (10 km) scenario simulations with the regional climate model REMO, quantify the projected changes and analyse their robustness for the study region (see above). Second task: Conduct sensitivity studies with REMO for specific land use changes. Quantify their effect on the climate along the BIOTA South transect, and compare their impact on the regional climate to changes induced by global warming.