The MED-CORDEX experiment: underpinning simulations and preliminary validation.

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MED-CORDEX is a coordinated action between CORDEX and HyMeX international programs. MED-CORDEX will make use of both regional atmospheric climate models and regional coupled systems. Strong air-sea interactions take place in the Mediterranean basin, motivating the use of coupled regional models. Two main phases have been envisaged within the MED-CORDEX action: performing state-of-the-art coupled runs feeding the next IPCC report (AR5) by the end of 2010; developing new experiments to test new components and improved schemes, based on the HyMeX field campaign outcomes (long term simulations). Here, we present a preliminary inter-comparison analysis of the ERAinterim simulations and of CIRCE coupled runs.