ICWRER conference, Koblenz

Session abstract

Title:

Climate change scenarios for marine and coastal waters

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Session description

Global climate change assessments are undertaken by the IPCC on a regular base and are currently prepared for the fifth time. As part of these global climate models are used to project global climate change under different emission scenarios. They provide a great wealth of spatially resolved scenarios. However, these models have typically a resolution between 200-400 km, hence far too coarse for detailed regional planning and management of the coastal zone.

Resolving the regional impact of climate change is a critical prerequisite for coastal management and the need for consistent and realistic high-resolution regional scenarios is obvious. Moreover measures of uncertainty of projections are indispensable. For this session we invite papers presenting such regional climate change scenarios for marine and coastal waters and the coastal zone. We are seeking contributions addressing all aspects related regional climate change impacts, uncertainty estimates, and downscaling methodologies, including downscaling setups, bias correction, coupled vs. uncoupled atmosphere-ocean downscaling.