

Regional effects of global warming

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The set of responses to the perspective of anthropogenic climate changes ranges from the strategies of mitigation (avoiding climate change by limiting emissions) to adaptation (adjusting to changing weather patterns). Knowledge is required about the sensitivity of the global system for the former whereas knowledge about the regional manifestations of changing weather patterns, including extremes, is needed for designing adaptation strategies. Future climate change policies will likely invoke a blending of these two strategies.

In this talk the construction of consistent scenarios for regional scenarios of plausible future climate change is presented. Examples refer specifically to changing wind patterns, changing storminess, changing storms surge and wind wave statistics.