High quality climate projections for adaptation in the Netherlands

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Climate Projections

This theme is about information on local impacts of global climate change for professional users.

Local means: the Netherlands, it's Delta, Coast, Cities

Impact for: Water management, Water quality, Agriculture, Spatial Planning, Ecology, Air Quality, Operations (But the impacts are more diverse)

Professional Users: decision makers, researchers, consultants, other theme's within \mbox{KfC}



Science

WP1. Mechanisms of local climate change in the Netherlands

WP2. Time series, Extremes and Probabilities

WP3. Coupling of climate projections to impact research

WP4. Climate Services

Society



Climate Projections



WP1. Mechanisms of local climate change in the Netherlands extreme drought, extreme precipitation, extreme windconditions, pace of sea level rise

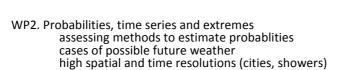


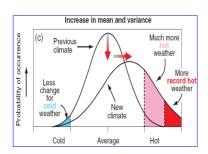
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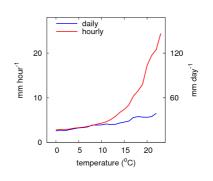




Climate Projections







Knowledge for Climate

WP3. Coupling of climate projections to impact research Water management, Water quality, Agriculture, Spatial Planning, Ecology, Air Quality, Operations





Climate Projections

WP4. Climate Services

- overview of available information on climate and impacts
- advice on the use of data
- consistency in time horizon + scenarios







Uncertainty

WP 1: reducing uncertainty for critical meteorological phenomena

WP2: assessing uncertainty/probability / extremes WP3: propagating uncertainties to impact assessments

WP4: communicating uncertainties





Example local flooding

WP1: the physics of extreme precipitation events

WP 2: assess probability of these boundary conditions and high resolution for Climate modelling

WP3: hydrological modelling of the time series to assess the impact on water management

WP4: interaction with water managers on their requirements on data and communication and decision support options



Knowledge