Questions

Session 1: Predictands/predictors, methods & domains

How can we assess the degree of stationarity in empirical relations?

- Tests?
- In the past observations?
- In the GCMs results representing the future?
- In the physical processes (model)?
- In the parameterisation schemes?
 - Also a problem for GCMs/RCMs?

Session 1: Predictands/predictors, methods & domains

Choice of predictors

- Views on optimal choice of predictors for downscaling of local scenarios of a). Temperature b). Precipitation c). Wind d). Snow cover /depth e). Other variables
- Is it better to choose variables from the free atmosphere rather than from the surface?
- How sensitive are the results to domain size?
- Is there an optimal choice for domain size?
- Choice of predictor type determined by an established set of rules (relevance, reproducibility, capture), but are these sufficient?
- Fundamental difference between GCM & ESD results: important? What does it imply?

Session 1: Predictands/predictors, methods & domains "Skilful scale"

- What is it really most recent update.
- Systematic investigation for state-of-the art GCM.
- Does skilful scale vary geographically, with season, or over time?
- How does skilful scale depend on the predictand?
- Is a new survey needed?

Session 2: Extremes/distributions/internal consistency of downscaled scenarios

How can we improve the description of extreme events?

- Are some indicators better/more robust than others?
- Indices? Ł Suggestions?
- pdfs?
- Extrapolation of trends based on a number of less severe events?
- Sampling fluctuations?
- Severe weather versus rare events?
- Complex events?

Session 2: Extremes/distributions/internal consistency of downscaled scenarios

Do empirical-statistical downscaling not represent physical processes?

- Reflect well-known physical links?
- Just statistics & just a number?
- Part of wider analysis and improved understanding?
- Views on the impression that RCMs are 'more physical' true?

Session 3: Uncertainty and applicability of downscaled scenarios

How can statistical downscaling be used for uncertainty considerations?

- Ensembles: Should all members be given equal weight?
- Experiences with use of statistical downscaling for showing local scenarios from several GCMs?

Session 3: Uncertainty and applicability of downscaled scenarios

Applications of statistical downscaling

- Examples of use of stat. downscaling for various impact assessments?
- How to get internal consistency between predictors (e.g. daily temperature and precipitation for water balance assessments)?

Session 4: What do we need to know and how do we get there?

Possible future colaboration

- SMIP?
- Other projects, e.g. projects including impact assessment?
- Project or network?