1   Participants:

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2   key interests of group members

- future climate change: view palaeo as a tool to 'validate' future climate change forecasts
- CMIP environment: make consistent use of palaeo and future climate simulations
- interesting playground for developing statistical methods for expressing uncertainties and provide forecasts
- meteorological prospective: effects of emissions pathways on extreme weather, weather physics and pheonomenology
- tipping points: developing theory and observations associated with early warning signals. Identify tipping elements.
- Past = crucial source of information to identify things that models get fundamentally wrong (e.g.: Green Sahara).
- Incorporate our knowledge of natural modes of variability in predictions (design stochastic models, use of models, which kind of model, etc.)
- Predicting = also predicting palaeoclimates.

3   Identify an interesting problem that we can have a go at

- different ideas are proposed: variability at global scale / CS / regional patterns

- Rowan's sutton diagram : in need of some update ? (limited to CMIP ensemble spread)

- changes in variability : only limited studies about this (e.g.: interannual variability + spatial patterns)

- palaeo tempestology : the palaeo record of extreme events -> what does it tell us about the future

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