Decadal Prediction: An Update from the Trenches

Introduction (Jerry, Ben, Lisa)
- Terminology
- Descriptive recap (CMIP5 experimental design e.g. Taylor et al paper; 2009 BAMS paper)
- Purpose of paper – update on current status and ongoing work

Technical Issues (“getting it done”)
  a) Initialization (Jerry coordinating input from centers)
  b) Ensemble generation (Gokhan, Michele, others?)
     - # of start dates versus # ensemble members; Lagged-average ensembles
  c) Model estimates of predictability (George, Grant, and Haiyan)
     (‘given the models we have, what is the best we could expect?’)
  d) Bias Correction (Ed H, Rowan, Ed S)
     - Response uncertainty; calibrated vs uncalibrated forecasts
  e) Evaluation (Arun, Suzana, Lisa, Claudia)
     - trend removal (Geert Jan)
     - mention upper ocean heat content choice of depth

Science Issues
  a) Sources of skill
     - phenomenological sources (Doug, Masa, Holger, Juliette, Noel, Rob, Daniela)
       (e.g. external forcing, AMV/AMOC, PDV)
     - methodological ‘sources’ e.g. statistical methods (Gabe, Ed H, Geert Jan)
       (although these should be drawing on some physical process or phenomenon)
  b) Bridging model validation and forecast verification
     - case studies (Rowan, Steve Y, Rym, Holger)
  c) Forecast uncertainty (Rowan, Lisa, Claudia, Ben)
     - How best to estimate probabilities (e.g. raw model ensemble estimates vs evaluation-based estimates)
     - What uncertainty can be estimated?

Summary (co-chairs)

Issues throughout – so where to mention?
- time scale: annual means, year 2-5, year 6-9, year 2-9, etc.
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