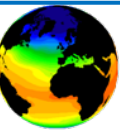



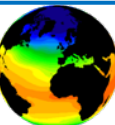
Grill Session 3: Uncertainty





How do you contextualize the uncertainty in the intermediate periods of the (downscaled) climate change projections?

i.e. what do we do between 1961-1990 and 2046-2065, 2081-2100 (control, future A, future B)?



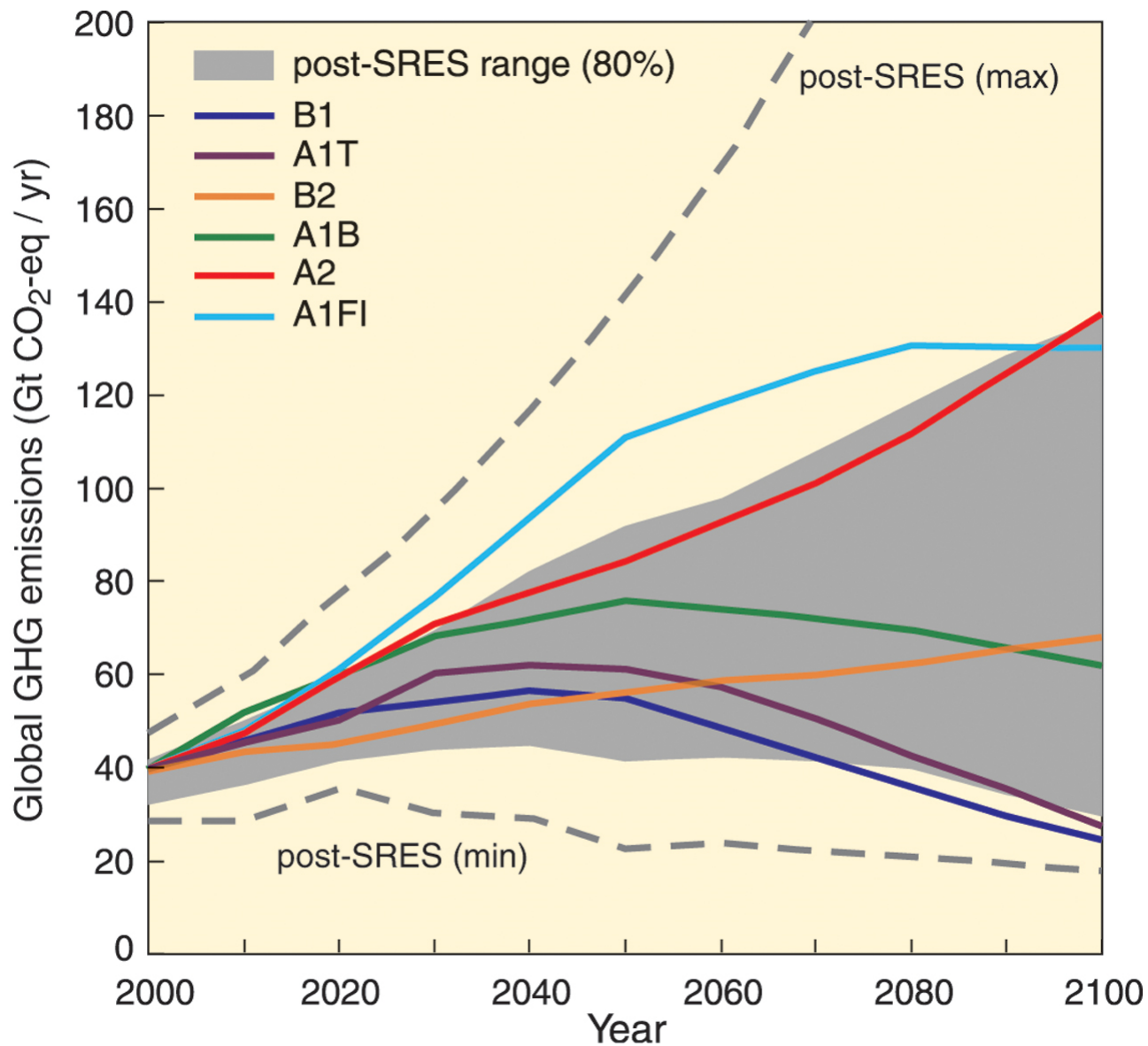
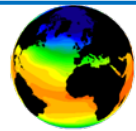



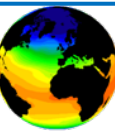
Fig 3.1, AR4 Synthesis Report. Emissions include CO₂, CH₄, N₂O, F-gases






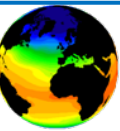
How do we communicate the uncertainty inherent in and associated with the projections to the non-science community?


How do we communicate with confidence?



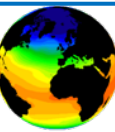



How certain are we about the projection of extreme events in WRM and CMA (for example, Mpumalanga Dam, DWAF)



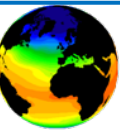
A vertical strip on the left side of the slide shows a satellite-style image of a coastline. The land is colored in shades of green and brown, while the water is a deep blue. The coastline is irregular, with several bays and peninsulas.

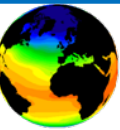
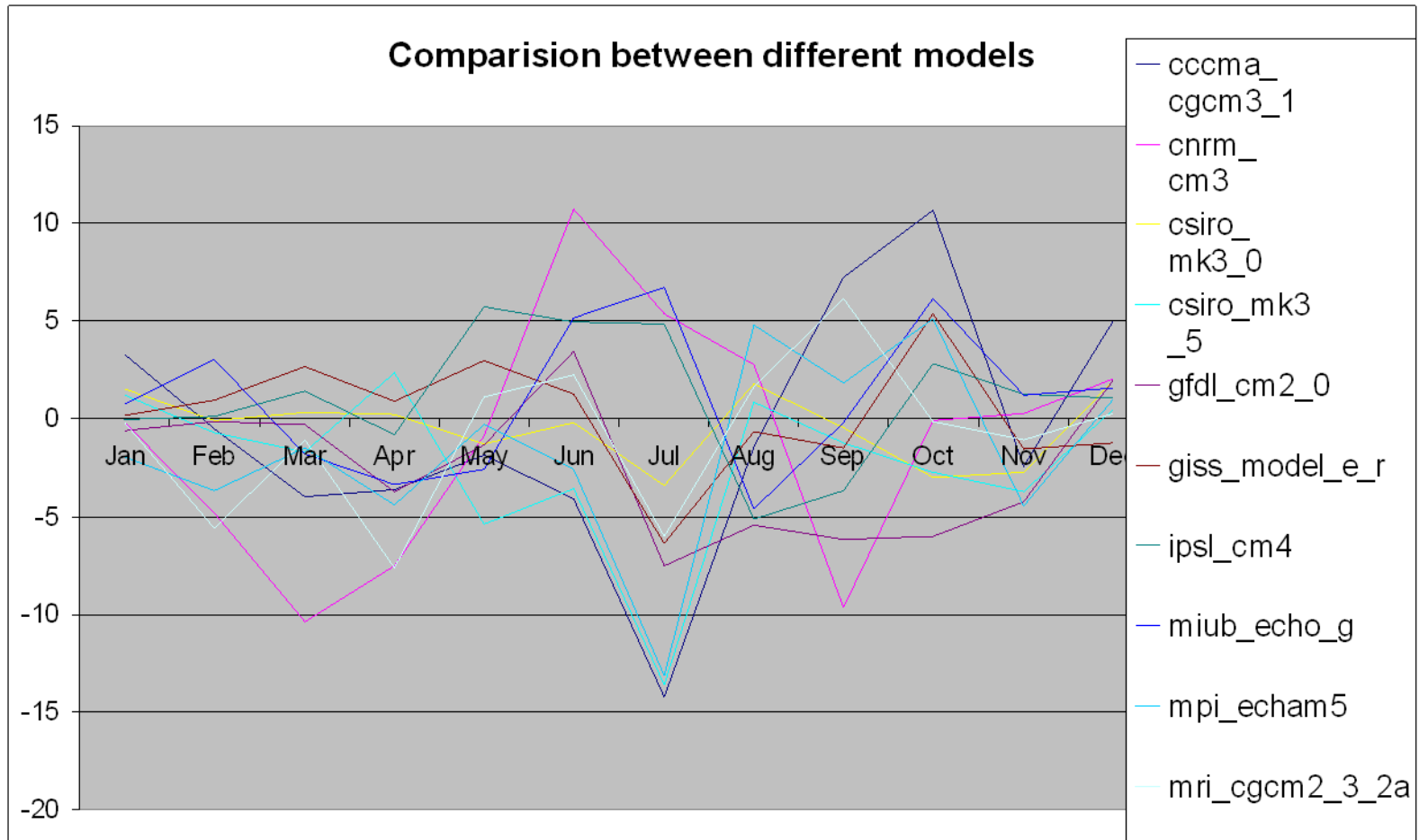
I sense a degree of “IPCC skepticism” –
How would you suggest IPCC “reinvents” itself –
or what alternative is there?




A vertical strip on the left side of the slide shows a satellite-style image of a coastline. The land is colored in shades of green and brown, while the water is a deep blue. The coastline is irregular, with several bays and peninsulas.

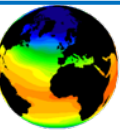
How do we address the “gap” between the working groups of the IPCC (WG1, WG2) and how does this issue affect the communication between different groups (in our countries)?






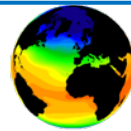



What do you think about the value of future vulnerability assessments if the uncertainty is high?



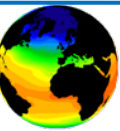


Can you recommend measures/tools to reduce the maximum the level of uncertainty?





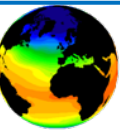
How can we evaluate the uncertainty of the combination of different climate related hazards?






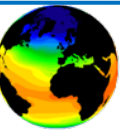
Do the uncertainty in emissions scenarios introduce more uncertainty in the world of climate projections?


Should I instead continue asking my ancestors for direction (i.e. weather prediction, Modjadja Rain Queen)



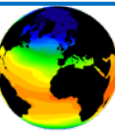



Do you think we can plan for the future with uncertainty of CC models and uncertainty of socio-economic scenarios?





Can you identify the percentage of uncertainty of different sources (Structure, physics, knowledge gaps, feedbacks, non-linear behavior...)





Uncertainty in the link between CO_2 and $T_{\text{min and max}}$
(similar to kids putting shaped blocks through different
shapes of holes in a Box)?

What about uncertainty in the carbon cycle?

