

Linking Models to User Communities

1) Seasonal forecasts and Subseasonal forecasts:

- What can Modeling Community & WCRP do to facilitate greater uptake of GPC seasonal forecasts by user communities?
- How can the modeling community link more effectively with social science and sectorial applications researchers (aviation, agriculture, health, disaster risk reduction, energy, insurance, infrastructures, trade, etc) and (co) review implications e.g. from a decision making and risk management (implies need for uncertainties and links to session 8) point of view.
- Is the WMO Lead Center an effective linkage, or does GPC data need to be made more publicly accessible?
- What issues related to developing countries need to be addressed? Are the RCOFs & NMHSs effective as intermediaries?
- How are the critical issues different for sub-seasonal forecasts?

2) Decadal prediction and Climate Change projections:

- What can WCRP do to encourage proper use of CMIP5/6 by the developing countries community, such that uncertainties in climate change projections are conveyed in a meaningful way?
- What are the main research vs translation/communication needs?
- Are current downscaling methods over confident and is probabilistic prediction on unverifiable time scales even meaningful?
- Are the model data fit for propose?
- How much detail do we need for which application?
- How do we approach scale mismatches between data availability and demand?
- Ready-Set-Go all the way from projections, climate predictions, weather fcts and nowcasting?

Linking Models to User Communities:

Seasonal forecasts and Subseasonal forecasts

- Importance of NMHSs/RCOFs as linkage to users in developing countries. NHMHs are legitimate source of forecasts, but landscape is rapidly evolving with private companies playing an increasing role.
- Choice should be up to users - but how to help users assess forecast credibility? Could WMO provide a “certification”? Would it help? Opaque private sector - method transparency important for both public and private providers. They need to talk to each other
- Purchasing power of private companies creates inequalities - WMO Lead Centre needs to serve development project users too, who can't afford to purchase eg. ECMWF products
- Good graphical forecast formats are critical in conveying information effectively

Linking Models to User Communities: Decadal prediction and Climate Change projections

- Developing countries critically need capacity building to make proper use of CC scenarios. In-country tech and science capacity is growing due to CORDEX, but more climate science expertise in universities is needed as well as expertise to work with climate change information
- Key role of climate services to bridging CORDEX with users.
- Is the seasonal Lead Center/RCOF structure used for dissemination of seasonal forecasts appropriate for distribution of CORDEX products, too?
- Customers want plausible ranges but still need a probability assigned
- In-country experts needed to judge confidence level from scientific understanding perspective (since more objective measure of confidence is not achievable, unlike in seasonal forecast case)