Status of LC-LRFMME

WMO Lead Centre for Long-Range Forecast Multi-Model Ensemble

Pilot real-time sub-seasonal MME predictions

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Suggestion about providing S2S plots to members

Pilot real-time MME service for sub-seasonal forecasts

- WMO Cg-XVI(2011) requested LC-LRFMME to expand its role to include exchange of extended-range predictions.
- In the meeting of the S2S steering group (2014), it was agreed to make use of the S2S research archive of sub-seasonal forecasts to develop a real-time multi-model display at the LC-LRFMME.

* S2S : Sub-seasonal to Seasonal Prediction Project

**ECMWF:** European Centre for Medium-Range Weather Forecasts
### Suggestion about providing S2S plots to members

#### Pilot real-time MME service for sub-seasonal forecasts

- The LC-LRFMME is providing MME forecasts and its verification results through website after IPET-OPSLS and GPCs agree (2018~)

*IPET-OPSLS*: Inter-Programme Expert Team on Operational Predictions from Sub-seasonal to Longer-time Scales

<table>
<thead>
<tr>
<th>Products/variables</th>
<th>Covering periods</th>
<th>Charts</th>
<th>Verification scores</th>
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</thead>
</table>
| · Accumulated prec  
· Average 2m temp   | Weeks 1,2,3,4, 3-4,1-4 | Probabilistic maps  
· terciles | Reliability diagrams 
/ ROC |
| MJO Need:          | 32 days          | · Hendon and Wheeler Diagram  
· OLR  
· U850  
· U200 | Temporal correlation 
and RMSE |
| Velocity Potential | Weeks 1,2,3,4, 3-4,1-4 | Velocity potential anomaly (Ensemble mean for each period) | correlation |
Products: Probabilistic MME

- Probabilistic prediction map of 2m air temperature and precipitation

- Temp: Tercile probabilistic forecast using parametric method (Gaussian fitting)

- Precip: Tercile probabilistic forecast using parametric method (Gamma fitting)
Products: Deterministic MME

- Deterministic prediction: Simple Composite Method

[T2M] <PREC> [MSLP] [Z500]

<850hPa wind> <200hPa wind> <200hPa velocity potential> <200hPa stream function>
Thank you