



World Meteorological Organization

Working together in weather, climate and water

General Introduction to WMO GPCs and associated Lead Centres

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Aim of talk

To provide some more specific information on WMO's Long-range Forecasting System

Relevant keywords of the talk:

WMO Global Producing Centres, Lead Centre for LRF
Multi Model Ensembles, Lead Centre for Standard
Verification System for LRF



WMO LRF System

Three level system to provide science-based climate information to end users:

Global level

WMO Global Producing Centres for Long-range Forecasting (GPCs)

Regional level

WMO Regional Climate Centres (RCCs)

Regional Climate Outlook Forums (RCOFs)

National level

National Meteorological and Hydrological Services (NMHSs)



WMO Global Producing Centres

Purpose:

Provision of long-range (seasonal) prediction information to RCCs, RCOFs, NMHSs

Note: Other centres produce equivalent products (e.g. IRI, APCC) !

Currently, there are **12 designated WMO GPCs:**

Beijing, ECMWF, Exeter, Melbourne, Montreal, Seoul, Tokyo, Toulouse, Washington, Moscow, Pretoria, CPTEC



WMO Global Producing Centres

GPC Minimum Products:

Variables: Temperature, precipitation, Sea Surface Temperature

Format: Probabilities for tercile categories

Range: At least 4 months

Coverage: Global

Issue frequency: At least quarterly (*all GPCs have at least monthly issue*)

Many GPCs provide additional variables (e.g. pressure), products (e.g. ensemble mean anomalies) and longer range



WMO Lead Centres associated to GPCs

Lead Centre for Standard Verification Scheme for LRF

- Communication of GPCs LRF expected skill to users
 - Defined verification scores
 - Provision of verification softwares
 - Display individual GPC verification Scores



WMO Lead Centres associated to GPCs

Lead Centre for LRF Multi Model Ensembles

- Provision of GPC LRF Multi Model Ensembles
 - Collection of GPC digital forecasts
 - Running and displaying GPC LRF Multi Model Ensembles
 - Possibility of provision of products for specific geographical areas, such as RCOF areas!



Thank you

Merci

Спасибо

Gracias

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