

**WCRP Seasonal Prediction Workshop
Barcelona Spain, 4-7 June 2007**

Day 1

Welcome 09:00-09:30

Mr. David Rodriguez – Director of Servei Meteorologic de Catalunya
Introduction to Workshop and TFSP Exp – B. Kirtman (COLA)

Key-Note Addresses – Chair: B. Kirtman

09:30-10:00 Seasonal Prediction Overview – J. Shukla (IGES/COLA)

10:00-10:30 Synthesis of Seasonal Prediction Skill – T. Palmer (ECMWF)

10:30-11:00 Coffee

11:00-11:30 ENSEMBLES: Seamless seasonal-to-decadal forecasting – P. Doblus Reyes (ECMWF)

11:30-12:00 Why should we care about the stratosphere? – M. Baldwin (NWRA)

12:00-12:30 Validation of Seasonal Forecasts: Statistical Methods and Downscaling – J. M. Gutierrez (Uni. Cantabria)

12:30-13:00 Towards integrating applications within end-to-end seamless ensemble prediction systems - A case for Africa first? – A. Morse (Uni. Liverpool)

13:00-14:30 Lunch

Session I – Synthesis of Seasonal Prediction Skill

Assessment of Seasonal Prediction Skill – Chair: J. Kinter

14:30-15:00 More Certain Uncertainty in Seasonal Climate Forecasts – L. Goddard (IRI)

15:00-15:20 Predictions of temperature and rainfall anomalies with the ECMWF Seasonal Forecast System-3 – F. Molteni (ECMWF)

15:20-15:40 Overview of the APEC Climate Center for Climate Information Services – C.-K. Park (APEC)

15:40-16:00 ENSO-related variability in Northeast Asia - An advantageous location for seasonal predictability – T. Ose (MRI-JMA)

16:00-16:30 Coffee

16:30-16:50 Seasonal forecasting in Canada – G. Boer (CCCMA)

16:50-17:10 IAP Dynamical Seasonal Prediction System and its Applications – Z. Lin (IAP)

17:10-17:30 Recent Development in Ocean-Atmosphere Modelling for Seasonal Prediction in Australia – G. Wang (BMRC)

17:30-17:50 Seasonal Prediction Activities at the South African Weather Service – W. Landman (S.African Weather Service)

19:00-21:30 Ice Breaker

Day 2

Coupled Model Performance – Chair M. Davey

- 09:00-09:20 Impact of ocean initial conditions on seasonal forecasts skill – M. Alonso Balmaseda (ECMWF)
- 09:20-09:40 Coupled Model Data Assimilation and ENSO Forecasting – A. Rosati (GFDL)
- 09:40-10:00 Understanding El Niño in Ocean-Atmosphere General Circulation Models – E. Guilyardi (LOCEAN/IPSL & Walker Institute)

Session II – Seasonal Prediction Skill and the Coupled System

Stratospheric Processes and Seasonal Prediction (SPARC) – Chair: M. Baldwin

- 10:00-10:20 The role of the Stratosphere in seasonal prediction: background and session overview – A. Charlton (Dept Meteorology, Uni. Reading)
- 10:20-10:40 Downward propagation from the stratosphere: Physical mechanism and potential for seasonal prediction – B. Christiansen (DCC-DMI)
- 10:40-11:00 Coffee
- 11:00-11:20 Predictability of Stratosphere-Troposphere Coupling during Stratospheric Sudden Warming Events in the Northern Hemisphere – H. Mukogawa (DPRI, Kyoto Uni.)
- 11:20-11:40 Occurrence patterns of stratospheric sudden warming events in view of the stratosphere-troposphere coupled system and their predictability – T. Hirooka (DEPS, Kyushu Uni.)
- 11:40-12:00 Stratosphere-troposphere interaction and plans for the GloSea4 Seasonal Forecast system – A. Scaife (Hadley Centre, UKMO)
- 12:00-12:20 Stratosphere-troposphere interactions: NWP to seasonal timescales – M. Keil (UKMO)
- 12:20-12:40 Prospects for wintertime European seasonal prediction – W. Norton (The Walker Institute; PCE Investors)
- 12:40-13:40 Lunch
- 13:40-15:00 **Poster Session I & II – SP Skill and the Coupled System**

Land-Atmosphere Interactions and Seasonal Prediction (GEWEX) – Chair: R. Koster

- 15:00-15:20 GLACE-2: A Study of the Impacts of Land Initialization on Forecast Skill – R. Koster (NASA GSFC)
- 15:20-15:40 Land surface contribution to seasonal climate variability and predictability – H. Douville (Météo-France)
- 15:40-16:00 Seasonal Hydrological Prediction: Activities and progress under GEWEX's Hydrologic Application Project – E. Wood (Princeton Uni.)
- 16:00-16:30 Coffee

Cryospheric Processes and Seasonal Prediction (CLIC) – Chair: J. Christensen

- 16:30-16:50 Seasonal Forecast of Antarctic Sea Ice – X. Yuan (LDEO, Columbia Uni.)

- 16:50-17:10 Seasonal Predictability over the Arctic Region and exploring the role of boundary conditions (SPAR) – R. Benestad (NMI)
- 17:10-17:30 Verification of hemispheric-wide winter temperature forecasts based on fall snow and atmospheric anomalies – J. Cohen (AER Inc.)

17:30-18:30 Session II Discussion → Chair: T. Stockdale

18:30-20:00 Poster Session I & II Continues

Day 3

Session III – Seasonal Prediction: Applications and Regional Skill

Methods and Applications – Chair: J. M. Gutierrez

- 09:00-09:20 Verification of Seasonal to Secular Climate Forecasts – D. Stephenson (Uni. Exeter)
- 09:20-09:40 On Downscaling Methodologies for Seasonal Forecast Applications – V. Moron (CEREGE)
- 09:40-10:00 Ensembles of crop yield at seasonal and multi-decadal timescales – A. Challinor (Uni. Leeds)
- 10:00-10:20 Exploring potential sources of seasonal predictability for climate-driven diseases – X. Rodo (Uni. Barcelona)
- 10:20-10:40 ENSEMBLES Web Portal for Seasonal Statistical Downscaling. Description and Demo – A. Cofino (Uni. Cantabria)
- 10:40-11:00 coffee
- 11:00-11:20 WMO CLIPS Project : A Global Framework for Seasonal Forecast Applications – K. Kolli (WCP)

African Climate System and Seasonal Prediction (VACS) – Chair: A. Morse

- 11:20-11:40 Taking the Shorter Route: Climate Prediction and Africa – R. Washington (Oxford Uni.)
- 11:40-12:00 Development and Applications of Climate Diagnostic and Prediction Tools in Africa – L. Njau (ACMAD)
- 12:00-12:20 Progress in the Seasonal Rainfall Prediction for the Greater Horn of Africa Region – P. Omondi (IGAD CPAC)
- 12:20-12:40 Seasonal climate prediction activities at the Drought Monitoring Centre – B. Garanganga (SADC)

12:40-13:40 Lunch

13:40-15:00 Poster Session III – SP: Applications and Regional Skill

American Monsoon System and Seasonal Prediction (VAMOS) – Chair: I. Cavalcanti

- 15:00-15:20 An overview of Seasonal Forecast-related issues over the Pan-VAMOS domain – C. Saulo (CIMA, Uni. Buenos Aires)

- 15:20-15:40 Do seasonal forecasts reproduce the link between early and peak monsoon rainfall in South America? – A. Grimm (Uni. Federal do Parana)
- 15:40-16:00 Summer rainfall forecast skill over South America derived from WCRP SMIP-2 model results – L. Muniz Alves (CPTEC)
- 16:00-16:20 Performance of Seasonal Forecast in South America during the 2006-2007 period: progress, challenges and the impacts on Society – R. Martinez (CIIFEN)

16:20-16:40 Coffee Break

Asian-Australian Monsoon System and Seasonal Prediction (AAMP) – Chair: E. Jin

- 16:40-17:00 How accurately do coupled climate models predict the Asian-Australian Monsoon interannual variability? – B. Wang (Uni. Hawaii)
- 17:00-17:20 ENSO and IOD predictions in the SINTEX-F coupled GCM – J.-J. Luo (JAMSTEC)
- 17:20-17:40 EU-Ensembles Project: Prediction skill of Indian monsoon rainfall in two anomalous years, 1994 and 1997 – M. Rajeevan (NCC, IMD Pune)
- 17:40-18:00 Seasonal Prediction of the Indian summer monsoon rainfall – S. Gadgil (CAOS Indian Institute Sci.)

18:00-19:00 Session III Discussion → Chair: L. Goddard

**19:00-20:00 Poster Sessions III Continues
Africa Break-out Meeting**

Day 4

Future Directions: Showcase TFSP Experiment

- 09:00-09:30 Cross-cutting WCRP Theme on Decadal Prediction – T. Palmer
- 09:30-10:00 TFSP Experiment – B. Kirtman

10:00-10:30 Coffee Break

10:30-11:30 Panel Led Discussion (with Coffee)

Panel: TFSP
Chair: B. Kirtman

Topics: WCRP Statement on current SP skill
TFSP Exp
Process for regular SP assessment
Contribution to IPCC

- 11:30-11:40 Synthesis and close of Workshop, Workshop output and way forward
- 11:40-11:50 Closing remarks – A. Henderson Sellers (Director, WCRP)
- 11:50-12:00 Close of Workshop – Mr Francesc Baltasar (Minister of Environment and Housing)