

International workshop on seasonal to decadal prediction

PROGRAMME

Monday, 13th May

- 0800 Registration - Coffee
 0840 Opening Ceremony
 Introduction : **George Boer**, *Canadian Centre for Climate Modelling and Analysis*
 Welcome : **Philippe Bougeault**, *Directeur du CNRM, Météo-France*

Session S1 Sources and levels of predictability

Chair : **Laurent Terray**

- 0900 1.1 Is AMOC more predictable than North Atlantic heat content ? - Invited
Grant Branstator, *NCAR, Haiyan Teng*
- 0930 1.2 Decadal predictability and forecast skill
George Boer, *Canadian Centre for Climate Modelling and Analysis*, *V. V. Kharin and W. J. Merryfield*
- 0950 1.3 Influence of volcanic eruptions on bi-decadal variability of the North Atlantic in historical, initialised simulations and observations
Didier Swingedouw, *CNRS, Juliette Mignot, Eric Guilyardi*
- 1010 1.4 The origins of large-scale North Atlantic ocean circulation changes in the late 20th century: implications for decadal prediction
Stephen Yeager, *NCAR, Gokhan Danabasoglu*

1030 - 1110 P1 Posters + Coffee break

Chair : **Ed Hawkins**

- 1110 1.5 Anthropogenic aerosol forcing of Atlantic tropical storms
Nick Dunstone, Rosie Eade, The Met Office Hadley Centre, D. M. Smith, L. Hermanson, R. Eade, B. B. Booth
- 1130 1.6 Attribution of the 2001-2010 global temperature plateau
Virginie Guemas, *Institut Català de Ciències del Clima (IC3) - Centre National de Recherches Météorologiques (CNRM), Francisco Doblas-Reyes, Isabel Andreu-Burillo, Muhammad Asif*
- 1150 1.7 Land surface contribution to seasonal climate predictability: growing evidence but unfulfilled expectations
Hervé Douville, *Météo-France, Yannick Peings, Eric Brun*
- 1210 1.8 Investigating the variations in the predictability of the South African provincial seasonal climates through HadRM3P ensemble spreads
Kamoru A. Lawal, *Climate System Analysis Group, Dept. of Env. and Geo. Science, Univ. of Cape Town, Daithi A Stone and Babatunde J Abiodun*

1230 - 1400 P1 Posters + Lunch break

International workshop on seasonal to decadal prediction – Toulouse, France – 13-16 May 2013
Programme

Session S1 Sources and levels of predictability (continued)

- 1400 1.9 Seasonal to decadal predictability in mid and high northern latitudes
Torben Koenigk, SMHI, Christof König Beatty, Mihaela Caian, Ralf Döscher, Uwe Mikolajewicz, Klaus Wyser
- 1420 1.10 Regional variability in the potential predictability of Arctic climate on seasonal to interannual time scales
Jonathan Day, University of Reading, Steffen Tietsche, Ed Hawkins, Dan Hodson, Sarah Keeley

Session S2 Assimilation, initialization, ensemble generation and bias

Chair : Franco Molteni

- 1440 2.1 A coupled ensemble ocean data assimilation system for seasonal prediction in Australia and its comparison with other state-of-the-art reanalyses - Invited
Oscar Alves, Bureau of Meteorology, Yonghong Yin, Li Shi, Debbie Hudson, Patricia Okely and Harry Hendon
- 1510 2.2 Ensemble Data Assimilation in Coupled Ocean-Atmosphere Models: The Role of Ocean-Atmosphere Interaction
Zhengyu Liu, University of Wisconsin, Shu Wu, Shaoqing Zhang, Yun Liu, Feiyu Lu, Xinyao Rong

1530 - 1600 P1 Posters + Coffee break

- 1600 2.3 Seasonal-decadal prediction with the EnKF and NorESM : a twin experiment
François Counillon, NERSC/BCCR, I. Bethke, N. Keenlyside, M. Bentsen, L. Bertino and F. Zheng
- 1620 2.4 Multiple Ocean Analysis Initialization for Ensemble ENSO Prediction using NCEP CFSv2
Bohua Huang, Center for Ocean-Land-Atmosphere Studies and George Mason University, Jieshun Zhu, Lawrence Marx, James L. Kinter III, Magdalena A. Balmaseda, Rong-Hua Zhang, and Zeng-Zhen Hu
- 1640 2.5 An Assessment of Hindcast-Based Ocean Initial Conditions for Climate Prediction Experiments
Gokhan Danabasoglu, NCAR, Steve Yeager
- 1700 2.6 A comparison between ensemble hindcasts obtained from oceanic and from atmospheric perturbations in the MPI-ESM climate model.
Camille Marini, Institut für Meereskunde, Universität Hamburg, Armin Koehl, Detlef Stammer

1730 - 1900 Icebreaker

Tuesday, 14th May

Session 2 Assimilation, initialization, ensemble generation and bias (continued)

Chair : **William Merryfield**

- 0850 2.7 Impact of initial conditions with respect to external forcing in the decadal predictions: a sensitivity experiment
Susanna Corti, ISAC-CNR & ECMWF, Tim Palmer, Magdalena Balmaseda, Antje Weisheimer, Wilco Hazeleger, Bert Wouters, Sybren Drijfhout, Dough Smith, Nick Dunstone, Holger Pohlmann, Jürgen Kröger, Jin-Song von Storch
- 0910 2.8 Multiyear climate predictions using two initialisation strategies
Wilco Hazeleger, Royal Netherlands Meteorological Institute (KNMI), V. Guemas, B. Wouters, S. Corti, I. Andreu-Burillio, F.J. Doblas-Reyes, K. Wyser, M. Caian, R. Haarsma
- 0930 2.9 Climate Drift in CCSM4 Decadal Prediction Experiment
Haiyan Teng, NCAR, Grant Branstator, Gerald Meehl, Alicia Karspeck, Steve Yeager
- 0950 2.10 The interpretation of biases in decadal climate predictions
Ed Hawkins, NCAS-Climate, University of Reading, Buwen Dong, Jon Robson, Rowan Sutton
- 1010 2.11 Analysis of model drift in a climate forecast system used for decadal predictions
Emilia Sanchez-Gomez, CERFACS/CNRS, Christophe Cassou, Elodie Fernandez

1030 - 1110 P1 Posters + Coffee break

Session S3 Seasonal-interannual forecast systems and results

Chair : **Eric Guilyardi**

- 1110 3.1 An extended re-forecast set for ECMWF system 4 in the context of EUROSIP - Invited
Tim Stockdale, ECMWF
- 1140 3.2 Long Range Predictability of the NAO and Atlantic Winter Weather
Adam Scaife, Met Office Hadley Centre, A.Arribas, E.Blockley, A.Brookshaw, R.T.Clark, N.Dunstone, R.Eade, D.Fereday, C.K.Folland, M.Gordon, L.Hermanson, J.R.Knight, C.MachLachlan, A.Maidens, M.Martin, A.K.Peterson, D.Smith, M.Vellinga, E.Wallace and A.Williams
- 1200 3.3 Improvement in winter seasonal predictability by including a stratospheric description in the forecast model
Michel Déqué, Météo-France, Jean-François Guérémy, David Saint-Martin
- 1220 3.4 Climate and seasonal forecast quality impact of increased horizontal ocean resolution
Isabel Andreu-Burillo, IC3/CFU, F. Doblas-Reyes, V. Guemas, M. Asif

1240 - 1400 P1 Posters + Lunch break

Chair : **Wilco Hazeleger**

- 1400 3.5 An Assessment of the Skill of GEOS-5 Seasonal forecasts
Yoo-Geun Ham, Global Modeling and Assimilation Office, NASA/GSFC, Siegfried Schubert, and Michele M. Rienecker
- 1420 3.6 Towards a Seasonal Prediction System using MPI-ESM
Daniela Domeisen, University of Hamburg, Institute of Oceanography, Kristina Fröhlich, Wolfgang Müller, Michael Botzet, Holger Pohlmann, Luis Kornblueh, Steffen Tietsche, Dirk Notz, Robert Piontek, Johanna Baehr
- 1440 3.7 Predictability of ENSO and IOD and their global teleconnections
Swadhin Behera, JAMSTEC, Takeshi Doi, Yukio Masumoto, and Toshio Yamagata
- 1500 3.8 Short-term climate extremes: prediction skill and predictability
Emily Becker, Climate Prediction Center (NOAA/NWS/NCEP), Huug van den Dool, Malaquias Pena

1520 - 1600 P1 Posters + Coffee break

International workshop on seasonal to decadal prediction – Toulouse, France – 13-16 May 2013
Programme

Chair : Edwin Schneider

- 1600 3.9 Land and atmosphere initial states influence surface temperature forecast in dynamical seasonal predictions
Stefano Materia, Centro Euro Mediterraneo sui Cambiamenti Climatici, Andrea Borrelli, Alessio Bellucci, Silvio Gualdi
- 1620 3.10 Impact of snow initialization in coupled ocean-atmosphere seasonal forecasts
Yvan Orsolini, Norwegian Institute for Air Research (NILU), R. Senan, A. Carrasco, G. Balsamo, F.J. Doblas-Reyes, F. Vitart, A. Weisheimer, and R.E. Benestad
- 1640 3.11 Seasonal forecasts of the Arctic sea ice with CNRM-CM5.1
Matthieu Chevallier, CNRM-GAME, Météo-France, CNRS, David Salas y Méliá, Virginie Guémas, Agathe Germe, Michel Déqué, Aurore Voldoire
- 1700 3.12 The North American Multi-Model Ensemble Intraseasonal to Interannual Prediction System
Ben Kirtman, University of Miami

Wednesday, 15th May

Session S4 Decadal forecast systems and results

Chair : Ben Kirtman

- 0840 4.1 Regional forecast quality of the CMIP5 multi-model decadal climate predictions - Invited
Francisco Doblas-Reyes, ICREA and Institut Català de Ciències del Clima (IC3), Andreu-Burillo, Y. Chikamoto, J. García-Serrano), V. Guémas, M. Kimoto, T. Mochizuki, L.R.L. Rodrigues, G.J. van Oldenborgh
- 0910 4.2 Improved predictions of global climate in the decade ahead using a new version of the Met Office Hadley Centre Decadal Prediction System
Jeff Knight, Met Office Hadley Centre, Martin Andrews, Doug Smith, Alberto Arribas, Nick Dunstone, Craig Maclachlan, Drew Peterson, Adam Scaife, and Andrew Williams
- 0930 4.3 Results from the CFSv2 CMIP5 Decadal Forecasts
Edwin Schneider, George Mason University and COLA,
- 0950 4.4 Decadal predictions by FGOALS-g2
Bin Wang, Center for Earth System Science, Tsinghua University, LASG, Institute of Atmospheric Physics, Chinese Academy of Sciences, Mimi Liu, Yongqiang Yu, Lijuan Li
- 1010 4.5 Added-value from initialization in skilful predictions of North Atlantic multi-decadal variability
Javier Garcia-Serrano, Laboratoire d'Océanographie et du Climat (LOCEAN-IPSL), UPMC, Virginie Guemas, Francisco J. Doblas-Reyes

1030 - 1110 P2 Posters + Coffee break

Chair : Wolfgang Müller

- 1110 4.6 Skillful predictions of Atlantic multi-year to decadal variability in the GFDL forecast system
Rym Msadek, GFDL/NOAA, Gabriel Vecchi, Tom Delworth, Tony Rosati, Shaoqing Zhang
- 1130 4.7 Multiyear predictions of the North Atlantic variability - the impact of increased ocean model resolution
Daniela Matei, Max Planck Institute for Meteorology, Johann Jungclaus, Wolfgang Müller, Holger Pohlmann, Ketan Kulkarni, Helmuth Haak, Jochem Marotzke
- 1150 4.8 Predictability of the rapid warming of the North Atlantic in the mid 1990s and its climate impacts
Jon Robson, NCAS-Climate, University of Reading, Rowan Sutton and Doug Smith
- 1210 4.9 Is Atlantic multi-decadal variability about to change phase ?
Leon Hermanson, Met Office, Martin Andrews, Nick Dunstone, Rosie Eade, Jeff Knight, Adam Scaife, Doug Smith

International workshop on seasonal to decadal prediction – Toulouse, France – 13-16 May 2013
Programme

1230 - 1400 P2 Posters + Lunch break

- 1400 4.10 Multi-year prediction skill of Atlantic hurricane activity in CMIP5 decadal hindcasts using a statistical index
Louis-Philippe Caron, Meteorology Department, Stockholm University, Colin G. Jones, Francisco Doblas-Reyes
- 1420 4.11 Decadal prediction for the Arctic
Klaus Wyser, Rossby Centre - SMHI, Mihaela Caian, Torben König, Colin Jones

Session S5 Forecast verification, calibration and combination

Chair : Susanna Corti

- 1440 5.1 Assessing skill from retrospective forecasts - Invited
Doug Smith, Met Office, Rosie Eade, Nick Dunstone, Leon Hermanson, Holger Pohlmann, Adam Scaife
- 1510 5.2 Reliability of seasonal-to-decadal forecasts from a seamless prediction perspective
Antje Weisheimer, ECMWF & University of Oxford, Susanna Corti

1530 - 1600 P2 Posters + Coffee break

- 1600 5.3 Probabilistic verification of decadal CMIP5 hindcast experiments
Sophie Stolzenberger, Meteorological Institute, University of Bonn, R. Glowienka-Hense, A. Hense, T. Spanghel, A. Mazurkiewicz, M. Schröder, R. Hollmann, F. Kaspar
- 1620 5.4 Reliable probabilities through statistical post-processing of ensemble predictions
Bert Van Schaeybroeck, Royal Meteorological Institute of Belgium, Stéphane Vannitsem
- 1640 5.5 Variation in the reliability of ensemble predictions of SSTs from seasonal to decadal timescales
Chun Kit Ho, **Ed Hawkins**, NCAS-Climate, University of Reading, Len Shaffrey, Jochen Broecker, Leon Hermanson, James Murphy, Doug Smith
- 1700 5.6 An empirical-dynamical South America seasonal precipitation prediction system
Caio Coelho, Centro de Previsão de Tempo e Estudos Climáticos (CPTEC), Instituto Nacional de Pesquisas Espaciais (INPE)

2000 Gala dinner

Thursday, 16th May

Session S6 Targeted predictions, downscaling and applications

Chair : Paul Kushner

- 0840 6.1 How can Seasonal to Decadal forecasts be useful to the power sector ? - Invited
Laurent Dubus, EDF R&D, Julien NAJAC, Sylvie PAREY
- 0910 6.2 Is there value in very long lead dynamical seasonal precipitation forecasts ?
William Merryfield, Canadian Centre for Climate Modelling and Analysis, Woo-Sung Lee, Slava Kharin
- 0930 6.3 Seasonal Forecast in France and application to hydrology
Stéphanie Singla, **Jean-Pierre Céron**, Direction de la Climatologie, Météo-France, E. Martin, F. Regimbeau, M. Déqué, F. Habets and J.-P. Vidal
- 0950 6.4 Multi-model seasonal forecasting of global drought onset
Xing Yuan, Department of Civil and Environmental Engineering, Princeton University, Eric F. Wood

International workshop on seasonal to decadal prediction – Toulouse, France – 13-16 May 2013
Programme

1010 6.5 An Integrated Seasonal Flood Outlook for Agriculture Risk Management
SHM Fakhruddin, Asian Institute of Technology, Prof. Dr. M.S. Babel, Prof. Dr. Francesco Ballio

1020 - 1110 P2 Posters + Coffee break

Chair : Rym Msadek

1110 6.6 Seasonal Climatic and Hydrologic Modeling and Prediction in the Yellow River Basin in China
Shourong Wang, China Meteorological Administration, Yiping YAO, Youye Liang, Ruby Leung

1130 6.7 Decadal predictions for Europe: Regional downscaling of the MiKlip decadal experiments
Hendrik Feldmann, Karlsruhe Institute of Technology (KIT), Sebastian Mieruch, Marianne Uhlig, Claus-Jürgen Lenz, Kevin Sieck, Christoph Kottmeier

1150 6.8 Downscaling seasonal forecasts over South Africa
Christopher Lennard, University of Cape Town

1210 6.9 Stochastic simulation as an alternative (or supplement) to decadal predictions
Arthur Greene, International Research Institute for Climate and Society, Columbia University, Lisa Goddard

1230 - 1400 P2 Posters + Lunch break

Session S7 Summaries/discussion

Chair : George Boer

1400 Sources and levels of predictability: A. Scaife/G. Branstator

1420 Assimilation, initialization, ensemble generation and bias: M. Ishii/O. Alves

1440 Seasonal-interannual forecast systems and results: M. Déqué/T. Stockdale

1500 Decadal forecast systems and results: C. Cassou/F. Doblas-Reyes

1520 Forecast verification, calibration and combination: C. Coelho/D. Smith

1540 Targeted predictions, downscaling and applications: H. Douville/L. Dubus

1600 Wrap up

POSTER PROGRAMME P1

Monday 13th May & Tuesday 14th May

S1 Sources and levels of predictability

S2 Assimilation, initialization, ensemble generation and bias

S3 Seasonal-interannual forecast systems and results

Session S1 Sources and levels of predictability

- 1 S1 Previsibility of the North Atlantic multidecadal internal variability in the CNRM-CM5 model
Yohan Ruprich-Robert, Cerfacs, Christophe Cassou
- 2 S1 Seasonal forecasts of the exceptional boreal winters of 2009/10 and 2010/11
David Fereday, **Jeff Knight**, Met Office Hadley Centre, Anna Maidens, Adam Scaife, Alberto Arribas, Craig MacLachlan, Drew Peterson
- 3 S1 Representation and Predictability of Northern Hemisphere Snow Trends with Large Ensembles of Climate Simulations
Lawrence Mudryk, **Paul Kushner**, Department of Physics, University of Toronto, Chris Derksen
- 4 S1 Response of the CNRM-CM5 coupled model to an enhanced Greenland ice melting.
Mathieu Hamon, CERFACS, Philippe Rogel
- 6 S1 Enhanced ENSO precursors in the Western North Pacific due to greenhouse gas forcing
S-Y Simon Wang, Utah Climate Center/Utah State University, Michelle L'Heureux, Jin-Ho Yoon
- 8 S1 Control of decadal and bidecadal climate variability in the tropical Pacific by the off-equatorial South Pacific Ocean
Hiroaki Tatebe, Research Institute for Global Change, JAMSTEC, Yukiko Imada, Masato Mori, Masahide Kimoto, Hiroyasu Hasumi
- 9 S1 Possible remote influence on pacific decadal variability and predictability
Takashi Mochizuki, Japan Agency for Marine-Earth Science and Technology, Masahiro Watanabe, Masahide Kimoto, Masayoshi Ishii
- 10 S1 Tropospheric Biennial Oscillation of the Western Pacific Subtropical High and its Relationships with the Atmosphere-Ocean Interaction
Yunyun Liu, Beijing Climate Center, Ding Yihui, Gao Hui, Li Weijing
- 11 S1 An Enhanced Influence of Tropical Indian Ocean on the South Asia High after the Late 1970s
Gang Huang, Institute of Atmospheric Physics, Chinese Academy of Sciences, Xia Qu
- 12 S1 Decadal prediction of sea level in the western North Pacific
Tamaki Yasuda, Meteorological Research Institute, Yukimasa Adachi, Masayoshi Ishii, Seiji Yukimoto
- 13 S1 Decadal forecasting derived from the mysterious coherence between Pacific climate oscillations and the Great Salt Lake level
Simon Wang, Utah Climate Center/Utah State University, Robert Gillies
- 14 S1 The Multidecadal component of the Western Mediterranean Variability and its global connections.
Maria J. OrtizBevia, University of Alcalá, Francisco J. Alvarez-García, Antonio Ruiz de Elvira
- 15 S1 Modelled and observed teleconnections between Indo-Pacific rainfall and extra-tropical flow regimes
Franco Molteni, ECMWF, Susanna Corti, Tim Stockdale, David Straus
- 16 S1 Understanding Prediction Skill of Seasonal Mean Precipitation over the Tropics
Mingyue Chen, Climate Prediction Center/NCEP/NOAA, Arun Kumar, Wanqiu Wang
- 17 S1 Influence of spring-time Eurasian-Himalayan snow on the evolution of the Indian summer monsoon
Retish Senan, Department of Geosciences, University of Oslo, Yvan J. Orsolini, Frode Stordal
- 18 S1 A possible factor for better representation of Asian summer monsoon
Shoji Hirahara, Japan Meteorological Agency, Yuhei Takaya, Satoko Matsueda

Session S2 Assimilation, initialization, ensemble generation and bias

- 22 S2 Improving Coupled Climate Model using EnKF for Parameter Optimization
Zhengyu Liu, University of Wisconsin-Madison, Yun Liu, Xingrong Wu, Xuefeng Zhang, Shaoqing Zhang, Rob Jacob, Shu Wu, Xinyao Rong, Feiyu Lu
- 23 S2 Towards prediction of climate variability in the Nordic Seas with NorCPM (NorESM+EnKF)
Ingo Bethke, Bjerknes Center for Climate Research, Francois Counillon, Mats Bentsen, Laurent Bertino, Tor Eldevik, Noel Keenlyside, Øystein Skagseth
- 24 S2 Full state ocean initialization using an ensemble Kalman Filter in a coupled climate model
Sebastian Brune, Institute of Oceanography, University of Hamburg, Lars Nerger, Johanna Baehr
- 25 S2 Impact of SST initialisation on the ocean subsurface over the period 1949-2000
Sulagna Ray, LOCEAN/IPSL, Juliette Mignot, Didier Swingedouw, Eric Guilyardi
- 26 S2 Importance of the deep ocean for model bias reduction and oceanic decadal predictability
Florian Sevellec, **Alexey Fedorov**, Yale University
- 27 S2 Understanding coupled model errors in the tropical Pacific using initialised hindcasts and a lead time analysis
Benoît Vanni re, Locean-IPSL, Eric Guilyardi, Thomas Tonniazzo, Steve Woolnough
- 28 S2 Analysing model drift in full-field-initialised seasonal hindcasts
David Mulholland, University of Reading, Keith Haines (University of Reading)
- 29 S2 Comparing and testing optimal perturbations for decadal climate predictions: do they work ?
Ed Hawkins, NCAS-Climate, University of Reading, Nick Dunstone, Laure Zanna, Rowan Sutton
- 30 S2 Initialization of the coupled model MPI-ESM for seasonal predictions
Johanna Baehr, University of Hamburg, Robert Piontek, Kristina Fr hlich, Michael Botzet, Wolfgang M ller
- 31 S2 An anomaly transform method based on total energy and ocean heat content norms for generating ocean dynamics disturbances for decadal climate forecasts
Vanya Romanova, Meteorologisches Institut der Universit t Bonn, Andreas Hense
- 32 S2 Towards an ensemble prediction system for decadal climate forecasts - first results on variation of initial conditions
Claus-Juergen Lenz, Deutscher Wetterdienst, Barbara Frueh, Fatemeh Davary Adalatpanah, Clementine Dalelane, Paul Becker
- 33 S2 Comparison of initialisation methods in global dynamic decadal climate forecasts
Danila Volpi, Institut Catal  de Ci ncies de Clima (IC3), Francisco J. Doblas-Reyes, Virginie Guemas
- 34 S2 Improving the anomaly initialisation for decadal predictions
Mihaela Caian, SMHI, Klaus Wyser, Louis-Philippe Caron, Colin Jones
- 35 S2 A comparison of initialization strategies for decadal predictions
Iuliia Polkova, Max Planck Institute for Meteorology, Iuliia Polkova, Armin Koehl, Detlef Stammer
- 36 S2 Impact of initialization and model resolution on decadal climate predictions with the MiKlip system
Holger Pohlmann, Max Planck Institute for Meteorology, Wolfgang M ller, Ketan Kulkarni, Jochem Marotzke
- 37 S2 Testing different initialization strategies with surface variables for decadal projections in a perfect model framework
J r me Servonnat, LOCEAN - LSCE- IPSL, Juliette Mignot, Eric Guilyardi, Didier Swingedouw, Roland Seferian, Sonia Labetoulle
- 38 S2 Decadal predictions of Southern Ocean sea ice : testing different initialization methods with an Earth-system Model of Intermediate Complexity
Violette Zunz, Centre for Earth and Climate Research, Universit  Catholique de Louvain, Georges Lema tre, Hugues Goosse, Svetlana Dubinkina
- 39 S2 Use of a dynamic-thermodynamic sea ice model in the ECMWF seasonal forecast system and the impact of different initialisation methods.
Sarah Keeley, ECMWF, Yongming Tang, Magdalena Balmaseda, Kristian Mogensen, Peter Janssen
- 40 S2 Ensemble of sea ice initial conditions for interannual climate predictions
Virginie Guemas, Institut Catal  de Ci ncies del Clima (IC3) / CNRM, Francisco Doblas-Reyes, Kristian Mogensen, Yongming Tang, Sarah Keeley

International workshop on seasonal to decadal prediction – Toulouse, France – 13-16 May 2013
Programme

- 41 S2 Land surface data assimilation in a climate context
Bodo Ahrens, Goethe University Frankfurt am Main, Julian Tödter
- 42 S2 Extension of the Safran-Isba-Modcou hydrometeorological reanalysis on the entire 20th century
Marie Minvielle, Direction de la climatologie, Météo-France, Jean-Pierre Céron, Christian Page, François Besson

Session S3 Seasonal-interannual forecast systems and results

- 43 S3 An overview of the Climate Prediction Task Force
Annarita Mariotti, NOAA Climate Program Office, Ben Kirtman, Matt Newman, Scott Weaver, Vasu Misra
- 44 S3 Seasonal forecasts with the atmospheric and coupled model at Hydrometcentre of Russia
Mikhail Tolstykh, Inst. of Numerical Mathematics/RAS, and Hydrometcentre of Russia, Nikolay Diansky, Anatoly Gusev, Dmitry Kiktev, Radomir Zaripov
- 45 S3 The performance of BCC_CSM1.1(m) on seasonal forecast
Xiaoyun Liang, Beijing Climate Center, China Meteorological Administration (CMA), Tongwen Wu, Xiangwen Liu, Yanjie Cheng, and Qiaoping Li
- 46 S3 Applications of BCC_AGCM2.2 Model in Extended Range Forecast
Qiaoping Li, Beijing Climate Center, China Meteorological Administration (CMA), Tongwen Wu, Xiangwen Liu, Xiaoyun Liang
- 47 S3 An assessment of ENSO predictability barrier with seasonal feedback models
Maria J. OrtizBevia, **Miguel Tasambay**, University of Alcalá, Instituto Politecnico de Riobamba, F. Alvarez-Garcia
- 49 S3 Assessment of CFS forecast skill over the Pacific Islands - A processes based study
Hanna Annamalai, IPRC/SOEST, University of Hawaii, Arun Kumar, Jan Hafner and Hui Wang
- 50 S3 Seasonal forecast skill of Indian summer monsoon in the ENSEMBLES coupled models
C.K Unnikrishnan, National Atmospheric Research Laboratory Gadanki, M Rajeevan and S Vijaya Bhaskara Rao
- 51 S3 Why was the prediction of the 2012 positive Indian Ocean Dipole Mode difficult ?
Takeshi Doi, JAMSTEC, Wataru Sasaki, Swadhin K. Behera, Yukio Masumoto, and Toshio Yamagata
- 52 S3 Predictability of the subtropical dipole modes in a coupled ocean-atmosphere model
Chaoxia Yuan, Japan Agency for Marine-Earth Science and Technology (JAMSTEC), Tomoki Tozuka, Jing-Jia Luo, and Toshio Yamagata
- 53 S3 An assessment of the representation of N. Atlantic blocking and jet-stream variability in a state-of-the-art seasonal prediction system.
Panos Athanasiadis, Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC), Silvio Gualdi, Alessio Bellucci, Stefano Materia and Andrea Borrelli.
- 55 S3 Model uncertainty in the ECMWF seasonal forecasting system 4
Antje Weisheimer, ECMWF & University of Oxford,
- 56 S3 A "stochastic dynamics" method for ensemble seasonal forecasts with the CNRM-CM5.1 GCM
Lauriane Batté, Institut Català de Ciències del Clima (IC3), Michel Déqué
- 57 S3 Skill of Persistence Forecasts of Arctic Sea Ice Concentration, Area and Extent on Monthly to Seasonal Time-Scales
Adrienne Tivy, National Research Council

POSTER PROGRAMME P2

Wednesday 15th May & Thursday 16th May

- S4 Decadal forecast systems and results
- S5 Forecast verification, calibration and combination
- S6 Targeted predictions, downscaling and applications

Session S4 Decadal forecast systems and results

- 58 S4 Statistical decadal predictions for SSTs: a benchmark for dynamical GCM predictions
*Chun Kit Ho, **Ed Hawkins**, NCAS-Climate, University of Reading, Len Shaffrey, Fiona Underwood*
- 59 S4 Seasonal-to-decadal prediction studies under the SOUSEI program
***Masaoshi Ishii**, Meteorological Research Institute, Masahiro Watanabe, Tomoo Ogura, Yukio Tanaka, and Masahide Kimoto*
- 60 S4 Forecast skill of multi-year seasonal means in the MPI-ESM decadal prediction system
***Wolfgang Müller**, Max Planck Institute for Meteorology, Johanna Baehr, Helmut Haak, Johann Jungclauss, Jürgen Kröger, Daniela Matei, Dirk Notz, Holger Pohlmann, Jin-Song von Storch and Jochem Marotzke*
- 62 S4 Understanding of processes in Decadal Climate Variability
***Kerstin Prömmel**, Freie Universität Berlin, Institut für Meteorologie, Ulrich Cubasch*
- 63 S4 Decadal predictions with the HiGEM climate model
*Len Shaffrey, **Jon Robson**, NCAS-Climate, University of Reading, Dave Stevens, Ed Hawkins, Chun-Kit Ho, Dan Hodson, Grenville Lister, Rowan Sutton*
- 64 S4 Seasonal-to-Interannual Variability of precipitation over Southeastern South America in CMIP5 Decadal Hindcasts
***Paula Gonzalez**, IRI/Columbia University, Lisa Goddard*
- 65 S4 Decadal prediction in the Mediterranean region
***Virginie Guemas**, Institut Català de Ciències del Clima (IC3) - Centre National de Recherches Météorologiques (CNRM), Javier García-Serrano, Annarita Mariotti, Francisco Doblas-Reyes*
- 66 S4 Assessing the decadal predictability of Arctic sea ice in CNRM-CM5.1 : A regional study
***Agathe Germe**, Centre national de Recherche Météorologique/Groupe d'Etude de l'Atmosphère Météorologique, Météo-France, Matthieu Chevallier, David Salas y Melia, and Emilia Sanchez-Gomez*
- 67 S4 S2D prediction for Nepal - where all models failed
***Robert Gillies**, Utah Climate Center, S-Y Simon Wang, Changrae Cho*

Session S5 Forecast verification, calibration and combination

- 68 S5 Reliability of decadal predictions
***Susanna Corti**, ISAC-CNR & ECMWF, Antje Weisheimer, Tim Palmer, Francisco Doblas-Reyes, Linus Magnusson*
- 69 S5 Assessment of the COMBINE multimodel predictive skill
***Alessio Bellucci**, CMCC, Italy*
- 70 S5 On the impact of ensemble size on seasonal forecast skill
***Antje Weisheimer**, ECMWF & University of Oxford, Susanna Corti, Laura Ferranti*
- 71 S5 Improving the Prediction of the East Asian Summer Monsoon: New Approaches
***Ke Fan**, Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing, Ying lium huopo Chen*
- 72 S5 Improvement of multi-model ensemble seasonal prediction skills over East Asian summer monsoon region using a climate filter concept
***Doo Young Lee**, APEC Climate Center, Joong-Bae Ahn, Karumuri Ashok*
- 73 S5 Seasonal prediction of the intraseasonal variability of the West African summer monsoon precipitation
***Luis Ricardo Lage Rodrigues**, Catalan Institute of Climate Sciences (IC3), Javier Garcia-Serrano, Francisco J. Doblas-Reyes*

International workshop on seasonal to decadal prediction – Toulouse, France – 13-16 May 2013
Programme

75 S5 Evaluation of decadal hindcasts using satellite simulators
Thomas Spanghel, *Deutscher Wetterdienst*, *Alex Mazurkiewicz*, *Marc Schröder*

Session S6 Targeted predictions, downscaling and applications

77 S6 Dynamical seasonal forecasting for Australian applications
Oscar Alves, *Bureau of Meteorology*

78 S6 Simple multiple linear regression model used to predict seasonal ice condition in the Canadian arctic.
André April, *Canadian Ice service branch*, *Environnement Canada*

79 S6 Long-range (30-day) prediction of winter persistent inversions in the Intermountain West, United States
Robert Gillies, *Utah Climate Center*, *Simon Wang*

80 S6 Self-learning fuzzy-neural seasonal predictive model for Northern Europe
Oleg Pokrovsky, *Main Geophysical Observatory*, *Roshydromet*,

81 S6 Seasonal Monsoon rainfall prediction over the South Asian Region by Dynamical Downscaling
Mohan Kumar Das, *SAARC Meteorological Research Centre*, *S. Das*, *India*, *Md. M. Rahman*

82 S6 Statistical Prediction of Seasonal Rainfall in India Vector Auto Regression (VAR) & Variance Decomposition (VDC) Model
Jyotish Prakash Basu, *West Bengal State University*,

83 S6 Extended range forecast for diurnal rainfall episodes in Taiwan using the CFS
S-Y Simon Wang, *Utah Climate Center/Utah State University*, *H.-H. Chia*, *Robert Gillies*

84 S6 Decadal predictability of West African monsoon rainfall applying the regional climate model REMO forced by ECHAM5 and MPI-ESM
Andreas Paxian, *Institute of Geography and Geology*, *University of Wuerzburg*, *Heiko Paeth*

87 S6 Regional downscaling to improve climate predictions in Sub-Saharan Africa - ClimAfrica
Christopher Lennard, *University of Cape Town*

88 S6 Advantages of using composite analysis for predicting seasonal rainfall in the Andean and Caribbean natural regions of Colombia by impact of ENSO phenomenon
Inés Concepción Sánchez Rodríguez, *Weather & Climate Group-Office of Meteorology Institute of Hydrology, Meteorology and Environmental Studies of Colombia (IDEAM, for acronym in spanish)*,

89 S6 Assessing Vulnerabilities to Regional Climate Change: A Case Study of Tokyo, Japan
Yingjiu Bai, *Graduate School of Media and Governance*, *Keio University*, *Ikuyo Kaneko*, *Hikaru Kobayashi*, *Kazuo Kurihara*, *Izuru Takayabu*, *Hidetaka Sasaki* and *Akihiko Murata*

91 S6 Evaluating the utility of IPCC AR4 GCMs for watershed application in South Korea
Thanh Le, *Dept. of Geology*, *Lund University*, *Deg-Hyo Bae*

93 S6 Rainfall variability over West Africa from global and regional models from seasonal to decadal timescales with multi-model approaches
Coumba Niang, *LPAO-SF/ESP/Dakar* *C. A. D. University*

95 S6 Marine records of the coast of Africa : a case of mechanisms and consequences of past and present climate changes over West Africa coast and its effect on adaptation.
Okuku Ediang, *Nigerian Meteorological Agency*, *Ediang Aniekan Archibong*

		Monday	Tuesday	Wednesday	Thursday
0840	Registration + Coffee	Bus at 0730	Bus at 0810	Bus at 0800	Bus at 0800
	0840-0850	Introduction		S4 – 4.1 Francisco Doblas-Reyes	S6 – 6.1 Laurent Dubus
0850-0900			2.7 Susanna Corti		
	0900-0910	S1 - 1.1 G. Branstator	2.8 Wilco Hazeleger	4.2 Jeff Knight	6.2 William Merryfield
	0920-0930			2.9 Haiyan Teng	4.3 Edwin Schneider
1000	0930-0940	1.2 George Boer	2.10 Ed Hawkins	4.4 Bin Wang	6.4 Xing Yuan
	0940-0950	1.3 Didier Swingedouw	2.11 Emilia Sanchez-Gomez	4.5 Javier Garcia-Serrano	6.5 SHM Fakhruddin
	0950-1000				
	1000-1010	1.4 Stephen Yeager			
1010-1020					
1020-1030					
1100	1030-1110	P1 Posters + Coffee Break	P1 Posters + Coffee Break	P2 Posters + Coffee Break	P2 Posters + Coffee Break
	1110-1120	1.5 Rosie Eade	S3 – 3.1 Tim Stockdale	4.6 Rym Msadek	6.6 Shourong Wang
1120-1130	1.6 Virginie Guemas			4.7 Daniela Matei	6.7 Hendrik Feldmann
1130-1140			3.2 Adam Scaife	4.8 Jon Robson	6.8 Christopher Lennard
1200	1140-1150	1.7 Hervé Douville	3.3 Michel Déqué	4.9 Leon Hermanson	6.9 Arthur Greene
	1150-1200				
	1200-1210	1.8 Kamoru A. Lawal	3.4 Isabel Andreu-Burillo	P2 Posters – Lunch Break	
	1210-1220				
1220-1230	P1 Posters – Lunch Break	P1 Posters – Lunch Break	P2 Posters – Lunch Break	1400 S7 - George Boer	
1230-1240					
1400	1240-1400				Sources and levels of predictability A. Scaife/G. Branstator
	1400-1410	1.9 Torben Koenigk	3.5 Yoo-Geun Ham	4.10 Louis-Philippe Caron	Assimilation, initialization, ensemble generation and bias M. Ishii/O. Alves
	1410-1420	1.10 Jonathan Day	3.6 Daniela Domeisen	4.11 Klaus Wyser	Seasonal-interannual forecast systems & results M. Deque/T. Stockdale
	1420-1430				
1430-1440				Forecast verification, calibration and combination C. Coelho/D. Smith	
1500	1440-1450	S2 – 2.1 Oscar Alves	3.7 Swadhin Behera	S5 – 5.1 Doug Smith	Targeted predictions, downscaling and appli. H. Douville/L. Dubus
	1450-1500				
	1500-1510	2.2 Zhengyu Liu	3.8 Emily Becker	5.2 Antje Weisheimer	
	1510-1520				
1520-1530					
1600	1530-1540	P1 Posters + Coffee Break	P1 Posters + Coffee Break	P2 Posters + Coffee Break	
	1540-1150				
	1550-1600				
	1600-1610	2.3 François Counillon	3.9 Stefano Materia	5.3 Sophie Stolzenberger	Bus at 1600
1700	1610-1620	2.4 Bohua Huang	3.10 Yvan Orsolini	5.4 Bert Van Schaeybroeck	
	1620-1630				
	1630-1640	2.5 Gokhan Danabasoglu	3.11 Matthieu Chevallier	5.5 Ed Hawkins	
	1640-1650				
	1650-1700	2.6 Camille Marini	3.12 Ben Kirtman	5.6 Caio Coelho	
	1700-1710				
	1710-1720				
	1720-1730				
1730-1900	Icebreaker	Bus at 1730	Bus at 1730		
2000-2300	Bus at 1900		Gala Dinner		