WGNE-WSE 2017 PROGRAMME

June 19, 2017

08:00	Registration		09:00
09:00	**Workshop introduction :** Keith Williams and Ayrton Zadra (WGNE co-chairs) Michel Rixen (WCRP Senior Scientific Officer) Gilbert Brunet (Director of the Meteorological Research Division of ECCC) Alain Bourque (Ouranos Executive Director) Ariane Frassoni: Information about ECS activities		10:00
	Clouds and precipitation Chair: Keith Williams; Rapporteur: Ángel F. Adames-Corraliza (morning) Chair: Bill Merryfield; Rapporteur: Yi Huang (afternoon)		
10:00	David Neelin	Convective transition statistics for climate model diagnostics	10:45
10:45	Stephen Klein	Climate Modeling Challenges Related to Global Cloud Feedbacks	11:30
11:30	Refreshment break		11:50
11:50	Jon Petch	Global Atmospheric System Studies	12:10
12:10	Tara Jensen	Use of New Analyses and Methods for Evaluation of Cloud Predictions	12:30
12:30	Lunch break* + Poster setup		14:30
14:30	Masashi Ujiie	Recent activities for fixing compensating errors in parametrisation schemes of the JMA operational global model	15:15
15:15	Hyemi Kim	The impact of the systematic mean bias on MJO propagation and prediction in the ECMWF ensemble prediction system	15:35
15:35	Kwinten Van Weverberg	Attribution of surface radiation errors near the Southern Great Plains in numerical weather prediction and climate models	15:55
15:55	Refreshment break		16:15
16:15	James Booth	Clouds And Precipitation In General Circulation Model Extratropical Cyclones: An Analysis Based On Cyclone-Centered Metrics	16:35
16:35	Yi Huang	Evaluation of Wintertime Precipitation Forecasts over the Snowy Mountains in a Regional Forecast Model using High-density Ground-based Observations	16:55
16:55	Jason Dodson	Characterizing the joint convective and radiative diurnal cycles in Amazonia for multiple successive general circulation and reanalysis models	17:15
17:15	Conclusion		17:35
17:35	Poster Session: Clouds and precipitation		18:35
18:00	Icebreaker (with refreshments)		19:00

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June 20, 2017

	Resolution issues Chair: Nils Wedi; Rapporteur: Falko Judt		
09:00	Christoph Schaer	Towards Convection-Resolution Climate Modeling	09:45
09:45	Prashant Sardeshmukh	Is ultra-high model resolution necessary to improve probabilistic predictions?	10:30
10:30	Refreshment break		10:50
10:50	Mike Bush	Biases in the representation of convection in convective-permitting versions of the Unified Model	11:10
11:10	Joseph Olson	Scale-Dependent Systematic Errors in High-Resolution RAP/HRRR Physics Over Complex Terrain	11:30
11:30	Thomas Rackow	Sensitivity of North Atlantic deep ocean biases to increasing ocean resolution in a hierarchy of prototype CMIP6 simulations	11:50
11:50	Conclusion		12:10
12:10	Lunch break* + Poster sessions: Atmosphere-land-ocean-cryosphere interactions		14:00
12:10	Lunch break* + Poster sessions: Resolution issues		14:00
14:00	**Workshop introduction** (cont.): David Grimes (WMO President)		14:10
	Atmosphere-land-ocean-cryosphere interactions Chair : Francois Bouyssel; Rapporteur: Annelize van Niekerk		
14:10	Irina Sandu	How uncertainties in surface drag impact the large-scale circulation	14:55
14:55	Andrew Elvidge	Constraining the source of significant variation in orographic drag representation in NWP and climate models: a model intercomparison of mean and subgrid orographic fields	15:15
15:15	Jenny Lindvall	Wind turning in the boundary layer - observations, reanalysis and CMIP5 models	15:35
15:35	Refreshment break		15:55
15:55	Graham Weedon	Evaluating and benchmarking land surface models	16:15
16:15	Glenn White	Reducing systematic errors in GFS sensible weather forecasts	16:35
16:35	Mat Collins	Causes and Interrelationships Between Errors in Climate Models: The Double ITCZ Bias	16:55
16:55	Poster Session: Resolution issues		18:25
16:55	Poster Session: Atmosphere-land-ocean-cryosphere interactions		18:25

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June 21, 2017

	Atmosphere-land-ocean-cryosphere interactions Chair : Mike Ek; Rapporteur: Ariane Frassoni		
09:00	Gianpaolo Balsamo	Representing Earth Surface Processes and Uncertainties in Global Forecasting: which way to errors' reduction?	09:45
09:45	Frédéric Hourdin	Reduction of systematic errors in climate models : model improvement versus tuning of free parameters	10:05
10:05	Alexis Berg	Investigating soil moisture-evapotranspiration coupling in CMIP5 models	10:25
10:25	Conclusion		10:45
10:45	Refreshment break		11:05
	Model errors in ensembles Chair: Kazuo Saito; Rapporteur: Yi Huang (morning) Chair: Judith Berner; Rapporteur: Hannah Christensen (afternoon)		
11:05	Mark Rodwell	Improving flow-dependent reliability - a route to more useful ensemble forecasts	11:50
11:50	Tim Palmer	Systematic Bias in the Magnitude of Ensemble Spread?	12:10
12:10	Hannah Christensen	Stochastic parametrisations: reducing model error in the Community Earth System Model	12:30
12:30	Lunch break* + Poster session: Model errors in ensembles		14:30
14:30	Emilia Sanchez-Gomez	Model drift analysis to understand the causes of systematic errors in climate prediction systems	15:15
15:15	Matthew Newman	Are we near the limit of tropical SST predictability?	15:35
15:35	Refreshment break		15:55
15:55	Eleftheria Exarchou	Sources of EC-Earth bias in the Tropical Atlantic	16:15
16:15	Antje Weisheimer	Impact of stochastic atmospheric physics in ECMWF's monthly forecasting system	16:35
16:35	Leo Separovic	Application of a Stochastic Parameterisation of Deep Convection in a Regional Ensemble Prediction System	16:55
16:55	Conclusion		17:15
17:15	Poster Session: Model errors in ensembles		18:15

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June 22, 2017

	Metrics and diagnostics Chair: Eric Maloney; Rapporteur: Hannah Christensen (morning) Chair: Barbara Casati; Rapporteur: Nadir Jeevanjee (afternoon)		
09:00	Peter Gleckler	Systematic errors across space and time scales and their relevance to future projections of climate change	09:45
09:45	Sulagna Ray	Heat Budget Diagnosis of the Equatorial Pacific Cold Tongue in the GFDL FLOR Global Coupled GCM	10:05
10:05	Andrew Wittenberg	Tropical Pacific climate and ENSO: Understanding model biases through flux adjustment	10:25
10:25	Refreshment break		10:45
10:45	H Annamalai	Development of processes oriented metrics for ENSO-related Precipitation anomalies along the equatorial Pacific in climate models	11:05
11:05	Kentaroh Suzuki	Process-oriented evaluation of warm rain process in global models with satellite observations	11:25
11:25	Dan Barrie	Model Diagnostic Task Force Efforts to Advance Process-Oriented Model Evaluation	11:45
11:45	Christina Kalb	Verifying the Representation of Regional Climate Variability in a GCM using Object-based Methods	12:05
12:05	Lunch break + Poster session: Metrics and diagnostics		14:05
12:05	Lunch break* + Poster session: Teleconnections		14:05
14:05	Marion Mittermaier	Ensemble versus deterministic performance at km-scale	14:50
14:50	Jiwoo Lee	New Approach to Quantify How Well Climate Models Simulate Extratropical Modes of Interannual Variability	15:10
15:10	Refreshment break		15:30
15:30	Junhong Wang	Diurnal Metrics for Evaluating GFDL and Other Climate Models	15:50
15:50	Xiaobiao Xu	How well do the climate models (CMIP5) represent the water properties of Atlantic meridional overturning circulation?	16:10
16:10	Conclusion		16:30
16:30	Poster Session: Metrics and diagnostics		18:00
16:30	Poster Session: Teleconnections		18:00

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June 23, 2017

	Teleconnections Chair: Hai Lin; Rapporteur: Priyanka Yadav		
09:00	John Fyfe	Links between low, mid, and high latitudes	09:45
09:45	David Straus	Understanding Tropical – Extratropical Interactions and the MJO	10:30
10:30	Refreshment break		10:50
10:50	Cristiana Stan	Activities surrounding the Year of Tropics-Midlatitude Interactions and Teleconnections	11:10
11:10	Franco Molteni	Impact of model resolution on MJO teleconnections and blocking properties in sub-seasonal predictions with the ECMWF coupled model.	11:30
11:30	Conclusion		11:50
11:50	Panel discussion and conclusion of the workshop		12:50
12:50	Lunch break*		13:50
13:50	Opportunity for private meetings		16:00

* Please note that lunch is not provided, but many restaurants and other options may be found nearby.