

Annex 2

Workshop Programme

Monday 20 June 2011

13:30	Erland Källén	Opening address
13:45	Tim Palmer (ECMWF)	Overview
1. Uncertainty in the representation of key processes		
14:15	Christian Jakob (Monash)	Representing convection in models - How stochastic does it need to be?
14:45	John Thuburn (Univ Exeter)	Energy and enstrophy cascades in numerical models
15:15	Coffee and poster viewing	Restaurant and lobby
15:45	Robert Pincus (U. Colorado)	Radiation fast physics with slow consequences in an uncertain atmosphere
16:15	Axel Seifert (DWD)	Uncertainty and complexity in cloud microphysics
16:45	Cecile Penland (NOAA)	Some numerical issues in stochastic integration
17:15	Cocktails and poster viewing	Restaurant and lobby

Tuesday 21 June 2011

09:15	Laure Zanna (Oxford)	Dealing with ocean model uncertainty in climate prediction
09:45	Hannah Cloke (King's College)	Uncertainty in representation of land surface processes: soil hydrology and river runoff
2. Model Uncertainty from a mathematical perspective		
10:15	Andy Majda (Courant)	Improving complex models, stochastic parameterization, and information theory
10:45	Coffee and poster viewing	Restaurant and lobby
11:15	Frank Kwasniok (Univ Exeter)	Data-based stochastic subgrid-scale modelling
3. Multi-model ensembles		
11:45	Andreas Weigel (MeteoSwiss)	Multimodels on seasonal to multi-decadal time-scales: Potential and limitations
4. Multiparametrisation		
12:15	Peter Houtekamer (Canadian Met)	The use of multiple parameterizations in ensembles
12:45	Lunch	Restaurant
14:00	Laurent Descamps (Météo France)	Representing model uncertainty using multi-parametrisation methods
5. Perturbed Parameters		
14:30	James Murphy (Met Office)	Assessing perturbed parameter ensembles as a tool for sampling model uncertainties and making climate projections
15:00	Jonty Rougier (Bristol)	Inference from perturbed parameter ensemble experiments
15:30	Coffee and poster viewing	Restaurant and lobby
6. Stochastic Parametrisation		
16:00	Martin Leutbecher (ECMWF)	Stochastic tendency perturbations for NWP

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1630	Glenn Shutts (Met Office)	ensembles Tracking down the origin of NWP model uncertainty : coarse-graining studies and the efficacy of various stochastic parametrizations
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Wednesday 22 June 2011

0915	Bob Plant (Reading Uni)	Stochastic parameterization: uncertainties from convection
0945	Judith Berner (NCAR)	Comparison of model-uncertainty schemes across a range of scales
1015	Tim Del Sole (COLA)	Data assimilation using models with stochastic parameterizations
1045	Coffee and poster viewing	Restaurant and lobby
1115	Lisa Bengtsson-Sedlar (SMHI)	Representing deep convective organization in a high resolution NWP LAM model using cellular automata

7. Superparametrisation

1145	Dave Randall (CSU)	Variability Across Time Scales in a Super-Parameterized GCM
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8. Postprocessing Issues

1215	Tom Hamill (NOAA)	Addressing model uncertainty through statistical post-processing
1245	Lunch	Restaurant

9. Representation of Model Uncertainty in Data Assimilation

1400	Yannick Tremolet (ECMWF)	Estimating model error in 4D-Var
1430	Massimo Bonavita (ECMWF)	Model uncertainty in ensemble data assimilation
1500	Jeff Whitaker (NOAA)	Evaluating methods for representing model error using ensemble data assimilation

10. Verification of methods for representing uncertainty

1530	Coffee and poster viewing	Restaurant and lobby
1600	Antje Weisheimer (ECMWF)	Assessing representations of model uncertainty in seasonal forecast ensembles
1630	Istvan Szunyogh (Texas A&M)	Local diagnostics to measure the efficiency of the ensemble in representing the error space
1700	Working Group Organisation and Discussions	
1800	Informal dinner at ECMWF restaurant for invited participants	

Thursday 23 June 2011

09.30	Working Group Discussions
12.30	Lunch
13.30	Working Group Discussions

Friday 24 June 2011

09.30	Plenary Session
12.00	Closure