

WGNE 33

JMA, TOKYO, OCT 9TH-12TH, 2018

TUESDAY OCTOBER 9TH

WGNE Session		
0900-1030	Welcome, adoption of the agenda & local arrangements. (10min) Welcome by JMA (10min) Review outstanding actions (45min) WGNE blue book (15min)	Co-chairs, J. Ishida Director-General of Forecast Department Co-chairs to lead Elena Astakhova
1030-1100	Coffee	
1100-1230	Updates on WGNE projects & related work GLASS report (20min) Years of the Maritime Continent (YMC): Current status and future (20min) TC verification (20min)	Mike Ek (by VC) Kunio Yoneyama Junichi Ishida
1230-1330	Lunch	
1330-1500	Surface fluxes project (20min) Aerosols project (20min) Use of NWP simulations for climate model precipitation evaluation (20min)	Carolyn Reynolds / Francois Bouyssel Ariane/Francois Julio Bacmeister
1500-1530	Coffee	
1530-1700	WGNE computer table (15min) GASS report (incl. plans for drag and grey zone projects) (20min)	Gunther Zangl Daniel Klocke (by VC)

	MJO-TF update (20min)	Steve Woolnough (by VC)
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Evening: JMA reception at the KKR hotel

WEDNESDAY OCTOBER 10TH

JOINT SESSION WITH PDEF		
0900-1030	<p>WCRP/CAS/WWRP/GAW matters (including WCRP & WWRP plans and WCRP sponsors review) (20min)</p> <p>The nature of model error and how to represent intrinsic model uncertainty</p> <p>Known systematic errors/summary of the WSE workshop (20min)</p> <p>Diagnosis of sources of model error (20min)</p>	<p>Michel Rixen / Estelle de Coning</p> <p>Ayrton Zadra</p> <p>Mark Rodwell</p>
1030-1100	Coffee	
1100-1215	<p>Dynamical ramifications of observed tropopause error (learning from NAWDEX) (20min)</p> <p>Stochastic physics as a representation of sub-grid scale uncertainty. (20min)</p> <p>Building stochastic representation of uncertainty into physical parametrizations. (20min)</p>	<p>John Methven</p> <p>Hannah Christiansen</p> <p>Christian Jakob (by VC)</p>
1215-1315	Lunch	
1315-1500	<p>Discussion of ways forward with the representation of intrinsic model error (40min)</p> <p>Report from SPARC GA with focus on errors in the representation of the stratosphere and coupling with predictability of the troposphere (20min)</p> <p>Ensembles and their verification</p> <p>TIGGE status report (20min)</p>	<p>Carolyn Reynolds to introduce</p> <p>Daniela Domiesen</p> <p>Manuel Fuentes</p>

1500-1530	Coffee	
1530-1700	<p>Use of TIGGE in TC forecasting (20min)</p> <p>General discussion on TIGGE</p> <p>WGNE review of centres ensemble systems (incl. current stochastic physics schemes) (20min)</p>	<p>Munehiko Yamaguchi</p> <p>Co-chairs to lead</p> <p>Junichi Ishida/Carolyn Reynolds</p>

THURSDAY OCTOBER 11TH

WGNE Session		
0900-1030	<p>Verification</p> <p>CMDP report (20min)</p> <p>JWGFVR report including progress with process-orientated and surface verification (20min)</p> <p>Discussion of progress with joint JWGFVR-CMDP activities</p> <p>WGNE member presentations (focus on fixing model deficiencies)</p> <p>Fixing systematic errors at CPTEC (15min)</p>	<p>Peter Gleckler (by VC)</p> <p>Caio Coelho (by VC)</p> <p>Caio and Peter to lead</p> <p>Ariane Frassoni</p>
1030-1100	Coffee	
1100-1230	<p>Activities at DWD to reduce systematic errors of the ICON model (20min)</p> <p>On the systematic reduction of GFS biases with FV3 dycore and advanced microphysics (20min)</p> <p>Activities at CMC to reduce systematic errors in the GEM model (20min)</p>	<p>Gunther Zangl</p> <p>Fanglin Yang</p> <p>Ayrton Zadra</p>

1230-1330	Lunch	
1330-1500	<p>20th century temperature biases as CESM2.1 (20min)</p> <p>The challenges in reducing systematic biases in the Indian Ocean (20min)</p> <p>Reducing systematic errors in seasonal forecasts over southern Africa (20min)</p>	<p>Julio Bacmeister</p> <p>Oscar Alves</p> <p>Francois Engelbrecht</p>
1500-1530	Coffee	
1530-1700	<p>Improvement of SL-AV model climate and the impact on medium-range weather forecasts (20min)</p> <p>Understanding/fixing systematic errors (20min)</p> <p>Exascale challenge</p> <p>Exascale review (atmosphere and ocean model scalability) + discussion of plans (30min)</p>	<p>Elena Astakhova</p> <p>Francois Bouyssel</p> <p>Nils Wedi (by VC)</p>

FRIDAY OCTOBER 12TH

WGNE Session		
0900-1030	<p>CMIP/HiRes MIP status (20min)</p> <p>Discussion on:</p> <ol style="list-style-type: none"> 1) How to move from diagnosing systematic errors to developing solutions. 2) Evolution of modelling systems (e.g. ESM's for forecasting) 	<p>Peter Gleckler (by VC)</p> <p>Co-chairs to lead</p>
1030-1100	Coffee	
1100-1230	<p>Summarise actions from the meeting</p> <p>Date and location of next meeting and close</p>	Co-chairs
1230-1330	Lunch	
1330-1540	Open session for JMA presentations	

1330	- Opening remarks	
1335	- WCRP	Michel Rixen
1345	- WWRP	Estelle de Coning
1400	- WGNE	WGNE co-chairs
1415	- PDEF	PDEF co-chairs
1430	- JMA plan by Chiashi Muroi (Director of Numerical Prediction Division)	Chiashi Muroi
1450	-Pushing the limits: Big Data Assimilation research at RIKEN: Takemasa Miyoshi (Team Leader, Data Assimilation Research Team, RIKEN Center for Computational Science)	Takemasa Miyoshi
1510-1540	- Discussion	