



MINISTÉRIO DA
CIÊNCIA, TECNOLOGIA
E INOVAÇÃO



WORLD
METEOROLOGICAL
ORGANIZATION



**38th Session of the Working Group on Numerical Experimentation
(WGNE-38)
Joint with the Joint Working Group on Forecast Verification Research (JWGFVR)**

27 Nov to 01 Dec 2023

São José dos Campos, SP, Brazil

Hybrid event

Agenda

Monday 27 Nov Afternoon

Location: LIT, Room U, ground floor

<i>Time</i>	<i>Activity</i>
	Check-in
08:30	Connection Check for Remote Participants
09:00	Welcome and information from local organizers <i>Ariane Frassoni</i>
09:10	Introduction: WMO/WCRP presentation <i>Nico Caltabiano</i>
09:40	Introduction <i>WGNE Co-Chairs</i>
09:50	Research Board activities <i>Nils Wedi</i>
10:10	Break
10:40	WGNE scope & membership Presentation and discussion <i>Nils Wedi</i>
11:15	Presentations from Members Centers updates <i>Session Chairs: Romain Roehrig and Ariane Frassoni</i>
11:30	ALVES Jose Oscar (<i>remote presentation</i>)
11:45	UJIIE Masashi (<i>remote presentation</i>)
12:00	SUN Jian (<i>remote presentation</i>)
12:00	Lunch
13:30	Connection Check for Remote Participants
13:50	ZÄNGL Günther (<i>remote presentation</i>)
14:05	McTAGGART-COWAN Ron (<i>remote presentation</i>)
14:20	LAURITZEN Peter (<i>remote presentation</i>)

14:35	GRAHAM Tim
14:50	FRASSONI Ariane
15:00	Break
15:30	WEDI Nils
15:45	YANG Fanglin
16:00	<i>ROEHRIG Romain</i>
16:15	<i>Wrap-up</i>
16:30	Systematic errors in Earth system models priority survey <i>Ariane Frassoni</i>
16:45	<i>Wrap-up</i>
17:00	END OF THE DAY

Tuesday 28 Nov Morning

Location: LIT, Room U, ground floor

<i>Time</i>	<i>Activity</i>
08:30	Connection Check for Remote Participants
09:00	Opening session
	Introduction
9:10	<i>Barbara Casati (JWGFVR)</i> <i>Nils Wedi (WGNE)</i>
	WGNE/JWGFVR collaborative activities
	<i>Session Chair: Ariane Frassoni</i>
09:20	TC Verification and initialization overview <i>Masashi Ujiie (remote presentation)</i>
09:50	WGNE Blue Book <i>Elena Astakhova (remote presentation)</i>
10:10	Break
10:30	Verification research in the AVRDP2 project <i>Ramon De Elia</i>
10:45	Model Uncertainty Model Intercomparison Project (MUMIP) <i>Romain Roehrig</i> Tropical Cyclone Probabilistic Forecast Products (TC-PFP) Pilot Phase-1 Summary <i>Raghavendra Ashrit</i>
	WMO Programs and Projects
	<i>Session Chair: Nils Wedi</i>
11:15	GAW update <i>Greg Carmichael (remote presentation)</i>
11:30	WWRP Update and discussion <i>Chris Davis (remote presentation)</i>
12:00	Lunch

Tuesday 28 Nov Afternoon

WGNE		JWGFVR	
<i>Location: LIT, Room U, ground floor</i>		<i>Location: LIT, Room U, 1^o floor</i>	
Time	Activity	Time	Activity
Connection Check for Remote Participants			
13:30			
	Updates from partner/collaborative groups <i>Session Chair: Fanglin Yang</i>	13:45	Angeline Pendergrass (Cornwell University): "Precipitation evaluation in climate simulations"
13:50	ESMO Update and discussion <i>Baylor Fox -Kemper (remote presentation)</i>	14:00	Javier Garcia-Serrano (U.Barcelona) "Subseasonal-to-seasonal prediction of the boreal winter stratosphere"
		14:15	Eric Gilleland (NCAR): Competing forecast verification: Using the power-divergence statistic for testing the frequency of "better" <i>(remote presentation)</i>
14:40	Spin-up methods in coupled models <i>Baylor Fox-Kemper (remote presentation)</i>	14:30	JWGFVR members on voluntary basis to deliver short scientific communication (with slides or not, other than the ones presented in the JWGFVR+WGNE meeting/workshop, on their verification research, from work-in-progress to published material) to share ideas for possible collaborations and future JWGFVR activities
15:00	Break		
	Atmosphere-ocean coupling in NWP	15:30	JWGFVR members on voluntary basis to deliver short scientific communication (with slides or not, other than the ones presented in the JWGFVR+WGNE meeting/workshop,

15:30	<i>Tim Graham</i>		on their verification research, from work-in-progress to published material) to share ideas for possible collaborations and future JWGFVR activities
15:50	Physics-dynamics coupling and energy budgets in Earth System Models <i>Peter Lauritzen (remote presentation)</i>	16:30	Helen Msemo (WMO Secretariat) Updates from WMO on new WWRP projects: 2024-2027 Implementation Plan, status and expectations from the JWGFVR members
16:10	HPC/Exascale Computing Update <i>Nils Wedi</i>		A word from the co-chairs: from individual research to member collaborations to building a JWGFVR project
16:30	WCRP Digital Earths Lighthouse Activity (DE-LHA) Update <i>Andrew Gettelman (remote presentation)</i>	16:45	
16:50	<i>Discussion on collaboration (WGNE/DE-LHA)</i>		
17:00	END OF THE DAY		

Wednesday 29 Nov Morning

WGNE		JWGFVR	
<i>Location: LIT, Room U, ground floor</i>		<i>Location: LIT, Room U, 1^o floor</i>	
<i>Time</i>	<i>Activity</i>	<i>Time</i>	<i>Activity</i>
Connection Check for Remote Participants			
08:30	Updates from partner/collaborative groups <i>Session Chair: Tim Graham</i>		
08:45	Update on GASS/GEWEX <i>Daniel Klocke (remote presentation)</i>	08:45	International verification methods workshop (IVMW) planning: Cape Town 2024
09:05	Update on GLASS/GEWEX (Mike Ek)		
09:25	Nudged climate runs for story lines (GASS) <i>Thomas Jung (remote presentation)</i>		
09:45	<i>Discussion on systematic errors (GASS/GLASS)</i>		
10:00	Break		
10:30	SPARC update <i>Amanda Maycock (remote presentation)</i>	10:30	Verification tutorial planning (preceding IVMW, Cape Town 2024)
10:50	Update on the WMO Integrated Processing and Prediction System (WIPPS, former GDPFS) <i>Nils Wedi</i>	11:30	Discussion on new JWGFVR members
11:10	<i>TBD</i>		
11:30	<i>TBD</i>		
12:00	Lunch		

Wednesday 29 Nov Afternoon

Location: LIT, Room U, ground floor

<i>Time</i>	<i>Activity</i>
13:30	Connection Check for Remote Participants
13:50	Updates from mutual interest projects <i>Session Chairs: Caio Coelho and Barbara Casati</i> Update on DIMOSIC (Linus Magnusson) (<i>remote presentation</i>)
14:10	Data assimilation diagnostics as a means of improving numerical forecasting performance <i>Mark Rodwell (remote presentation)</i>
14:30	Verification approaches for high-resolution ensembles <i>Chiara Marsigli (DWD) (remote presentation)</i>
14:45	Surface Flux Project/MJO MIP <i>Barbara Casati</i>
15:00	Break + Group photo
15:30	GLASS/GEWEX process-based verification projects <i>Mike Ek</i>
15:45	METplus: 15 Years of Verification and Diagnostics for Consistent Community Evaluation <i>Tara Jensen (NCAR) (remote presentation)</i>
	Open talk Link: https://inpe-2022.webex.com/inpe-2022-pt/j.php?MTID=m484b9073c11ffb243f816c81416285b3
16:30	Break
16:40	<i>Discussion on joint activities (WGNE/JWGFVR)</i>
17:00	END OF THE DAY

Thursday 30 Nov Morning

WGNE

JWGFVR

Location: LIT, Room U, ground floor

Location: LIT, ground floor

<i>Time</i>	<i>Activity</i>	<i>Time</i>	<i>Activity</i>
Connection Check for Remote Participants			
08:30	Updates from partner/collaborative groups <i>Session Chair: Mike Ek</i> WGNE table	08:45	International verification methods workshop (IVMW) planning: Cape Town 2024
09:00	<i>Günther Zangl (remote presentation)</i> High resolution experiments	09:15	Verification tutorial planning (preceding IVMW, Cape Town 2024)
09:20	<i>Günther Zangl (remote presentation)</i>		
09:40	Ensemble predictability and forecasting at met centers <i>Tim Graham</i>	09:45	Review of the actions wrt the IVMW and tutorials
10:00		Break	
10:30	Aerosol Project <i>Ariane Frassoni</i> MJO-TF Update	10:30	Finalize nominations on new JWGFVR members
10:50	<i>Charlotte DeMott (TBC) (remote presentation)</i>	10:50	Plan for award nomination to recognize contributions of senior verification expert
11:10	Observing and Modelling of Earth System Change LHA Update <i>Kirsten Findell or Rowan Sutton (TBC)</i>	11:10	Plans for verification website currently hosted in Australia
		11:30	Outlook for next JWGFVR meetings and workshops
	<i>Discussion on potential collaboration</i>	11:50	Revision of actions (other than the IVMW and tutorials actions) – closure of the JWGFVR session III meeting
11:40			
12:00		Lunch	

Thursday 30 Nov Afternoon

Workshop: Numerical predictions for strategic sectoral applications: Modeling and verification approaches and challenges

Session Chair: Ariane Frassoni

Location: Fernando de Mendonça Auditorium

Link: <https://www.youtube.com/@inpemcti/streams>

<i>Time</i>	<i>Activity</i>
13:30	Check-in Connection Check for Remote Participants
13:45	Opening Reflections on the recent extreme environmental events that hit Brazil and its context in the world
14:00	<i>Maria Assunção Faus da Silva Dias (IAG/USP)</i> Technological challenges in Brazil for the advancement of numerical forecasts
14:20	<i>Pedro Leite da Silva Dias (IAG/USP)</i> MONAN: A new paradigm for advancing numerical prediction of the Earth system in Brazil and Latin America
14:40	<i>Saulo Freitas (INPE)</i>
15:00	Break
15:30	Evolution of systematic errors in Earth system modelling <i>Nils Wedi (ECMWF)</i>
15:50	Implementation and forecast quality assessment of sub-seasonal predictions in Brazil <i>Caio Coelho (INPE)</i> Intraseasonal forecasts for hydropower generation: Tocantins Basin case study
16:10	<i>Javier Tomasella (INPE)</i> Verification of numerical forecasts over Argentina
16:30	<i>Ramon de Elia (SMN)</i>
16:50	<i>Wrap-up</i>
17:00	END OF THE DAY

Friday 01 Dec Morning

Workshop: Numerical predictions for strategic sectoral applications: Modeling and verification approaches and challenges

Session Chair: Caio Coelho

Location: Fernando de Mendonça Auditorium

Link: <https://www.youtube.com/@inpemcti/streams>

<i>Time</i>	<i>Activity</i>
08:30	Connection Check for Remote Participants
09:00	S2S Applications for Agriculture and Environment (SAGE) <i>Victor Marchezini (CEMADEN)</i>
09:20	Hydrological modeling and stream flow forecast verification in Australia <i>James Bennett (CSIRO)</i>
09:40	Diagnosis and prediction of drought impacts on family farming in Brazil <i>Marcelo Zeri (CEMADEN)</i>
10:00	Break
10:30	Discharge forecasting experiments based on weather and climate forecasts in Brazil <i>Walter Collischonn (UFRGS/IPH)</i>
10:50	Joint Laboratory on Urban Climate, Water and Air Pollution: Modeling, Planning, Monitoring, Social Learning (Klimapolis Laboratory) <i>Maria de Fatima Andrade (IAG/USP) (remote presentation)</i>
11:10	Hydrological monitoring and forecasting for the Brazilian Northeast <i>Eduardo Sávio Passos Rodrigues Martins (FUNCEME)</i>
11:30	<i>Wrap-up</i>
11:50	Closing session JWGFVR and WGNE co-chairs
12:00	Lunch