

WGNE39 + WGNE/WGSIP Joint Meeting – Agenda

November 4-8, 2024
Toulouse, France

Connection link for remote participation:

<https://eu02web.zoom-x.de/j/67246567157?pwd=op7SexRJVhuaL8ADMbk5oaWvzAo5ha.1>

Monday, November 4, 2024				
Time (CET)		Topic		Speakers (*remote)
8:00		<i>Travel incoming time</i>		
12:45	13:30	<i>Welcome Coffee</i>		
Joint plenary S1 - Opening				
Moderators:				
Time (CET)	Duration	Topic		Speakers (*remote)
13:30	15	Opening and objectives of the meeting		
13:45	10	Hosting institution welcome		Natacha Bernier
13:55	30	French TRACCS introduction		
13:55	10	Introduction to the TRACCS programme		David Salas Y Melia (CNRM)
	4	TRACCS-PC5: COMputing PARadigms towards efficient, modular and trainable ClimT models (COMPACT)		Julien Le Sommer (IGE, online)
	4	TRACCS-PC6: QUantifying uncertaINTies, Tuning and Equilibrating climaTe models (QUINTET)		Aurore Voltaire (CNRM)
	4	TRACCS-PC7: Improving the physical PROceSS representatIOn in Earth System Models (IMPRESSION-ESM)		David Salas Y Melia (CNRM)
	4	TRACCS-PC8: Enhanced treatment of biogeochemical processes - Climate feedbacks, impacts and vulnerabilities		Roland Séférian (CNRM)
14:25	15	WCRP & ESMO introduction		Fanny Adloff
14:40	15	WGNE Introduction		Nils, Ariane
14:55	15	WGSIP Introduction		*June-Yi, Bill, Ángel
15:10	15	Joint discussion		
15:25	30	Afternoon Break		
15:55	15	WWRP introduction		Chris Davis*

16:10	20	WIPPS & EW4All Introduction	David Richardson
16:25	15	EPESC	Scott Osprey*
16:40	20	GAW introduction	Sara Basart*
16:55	20	Modelling Aspects of G3W	Gianpaolo Balsamo*
17:10	20	Joint discussion	
17:30	2h	Icebreaker at Météo-France (sponsored by TRACCS)	

Tuesday, November 5, 2024

WGNE Session 1 – [Member presentations]

Moderators:

Time (CET)	Duration (min)	Topic	Speakers (*remote)
9:00	30	Intro & WGNE new membership overview	Nils Wedi* & Ariane Frassoni
9:30	15	Center update	UJIIE Masashi*
9:45	15	Center update	LEE Eun-Hee*
10:00	15	Center update	LI Xingliang
10:15	15	Center update	SRIVASTAVA Ankur
10:30	30	Morning Break	
11:00	15	Center update	MATEYISI Mohau Jacob
11:15	15	Center update	GRAHAM Tim
11:30	15	Center update	Inna Polichtchouk
11:45	15	Center update	ZÄNGL Günther
12:00	15	Center update	FRASSONI Ariane
12:15	15	Center update	LAURITZEN Peter
12:30	15	Discussion	All
12:45	75	Lunch	

WGNE Session 2 – [Member presentations]

Moderators:

Time (CET)	Duration (min)	Topic	Speakers (*remote)
14:00	15	Center update	McTAGGART-COWAN Ron*
14:15	15	Center update	SREEPATHI Sarat *
14:30	15	Center update	YANG Fanglin
14:45	15	Research Board activities (AI TT, Digital Strategy, General)	Nils Wedi
15:00	15	Model Uncertainty Model Intercomparison Project (MUMIP)	Hannah Christensen *
15:15	20	WGNE Table	Günther Zängl

15:35	25	Afternoon Break		
16:00	20	HPC/Exascale Computing Update		Nils Wedi*
16:20	20	Physics-dynamics coupling and energy budgets in Earth System Models		Peter Lauritzen
16:40	20	Bias correction review		Ariane Frassoni
17:00	20	Ensemble predictability and forecasting at met centers		Tim Graham
17:30		End Day 2		

Wednesday, November 6, 2024

WGNE Session 3 – [WGNE projects/collaborative activities]

Moderators:

Time (CET)	Duration (min)	Topic		Speakers (*remote)
9:00	20	AI/ML Research Board Task Force		Catherine de Burgh-Day*
9:20	30	TC Verification and initialization overview		Masashi Ujiié*
9:50	20	JWGFVR review activities related to WGNE		Caio Coelho
10:10	20	The Global Land and Atmospheric System Studies (GLASS) panel: Key research topics and new results		Volker Wulfmeyer
10:30	30	Morning Break		
11:00	20	The AROBASE project: Towards a regional kilometre-scale multi-coupled modelling and forecasting system		Cindy Lebeau-pin (CNRM)
11:20	20	AI activities for NWP applications at CNRM		Sara Akodad (CNRM)
11:40	30	EW4All survey		Ariane Frassoni
12:10	15	WGNE - WIPPS collaboration		David Richardson (WIPPS, ECMWF); see also AI talk on Thursday
12:25	15	South America - Regional Model Verification Pilot project		Nils/Ramon* (TBD)
12:40	80	Lunch		

Joint plenary S2 – Initialization

Moderators:

Time (CET)	Duration (min)	Topic	Speakers (*remote)
14:00	10	Pathway to sustained delivery of climate forcing datasets - conclusions of recent scoping workshop	Anca Brookshaw
14:10	10	Ocean initialisation for climate simulations	Gokhan Danabasoglu
14:20	10	Improved initialization of the L-A system? A need to revisit the modeling of surface states and fluxes in coupled model systems	Volker Wulfmeyer
14:40	10	Initialising subseasonal to decadal predictions	Andrea Molod*, Bill Merryfield
14:50	10	Tropical cyclone weak-intensity bias reduction through the semi-Lagrangian dycore (S2)	Ron McTaggart*
15:00	30	Joint discussion	
15:30	30	Afternoon Break	
Joint plenary S3 - Scale-aware parametrizations & Seamless prediction			
Moderators:			
16:00	10	Advances in the CMA NWP System	Xingliang Li
16:10	10	Seamless prediction and predictability across weather-subseasonal-seasonal timescales (Title subject to revision)	Priyanka Yadav*
16:20	10	On causality, sources of predictability and bridging predictions across timescales	Ángel G. Muñoz
16:30	10	Aerosol aware / convection aware parametrizations	Georg Grell*
16:40	10	MJO-TF Update (S1)	Charlotte DeMott*
16:50	40	Joint discussion	
17:30		End of session	
19:30		Joint Dinner	

Thursday, November 7, 2024

Joint plenary S4 - Model processes improvements

Moderators:

Time (CET)	Duration (min)	Topic	Speakers (*remote)
9:00	10	Teleconnections in CMIP6	Clementine Dalelane*
9:10	10	Teleconnections and dynamical mechanisms of the 2023 south Brazil austral spring precipitation excess in observations and numerical experiments	Caio Coelho
9:20	10	Evaluating the impact of Aerosols on the S2S	Ariane Frassoni
9:30	10	Subseasonal-to-seasonal prediction of the boreal winter stratosphere	Javier García-Serrano
9:40	10	Assessing the impact of accurately representing river freshwater and turbulent fluxes on monsoon variability in a seasonal forecast model	Ankur Srivastava
9:50	10	APARC-SNAPSI study on the role of biases in the stratosphere on S2S predictability	Chaim Garfinkel*
10:00	40	Joint discussion	

10:40	30	Morning Break	
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Joint plenary S5 - Bias reduction

Moderators:

11:10	10	Correcting weather and climate models with machine learned nudging tendencies	Oliver Watt-Meyer
11:20	10	Adaptive tuning of uncertain parameters in a numerical weather prediction model based upon data assimilation	Günther Zängl
11:30	10	Online bias corrections at ECMWF: what do we gain?	Inna Polichtchouk
11:40	10	Online atmosphere/ocean bias correction in CanESM5 and its impact on seasonal hindcast skill	Bill Merryfield*
11:50	40	Joint discussion	
12:30	90	Lunch	

WGNE Session 4 – [Updates from partner/collaborative groups]

Moderators:

Time (CET)	Duration (min)	Topic	Speakers (*remote)
14:00	20	WGNE Blue Book	Sara Pasqualetto
14:20	20	WCRP Digital Earths Lighthouse Activity (DE-LHA) Update	Andrew* or Pier Luigi Vidale *
14:40	10	<i>Discussion on collaboration (WGNE/DE-LHA)</i>	
14:50	20	Center Update	Romain Roehrig
15:10	20	ACE: A fast, skillful learned global atmospheric model for climate prediction	Oliver Watt-Meyer
15:30	30	Afternoon Break	
16:00	15	ML/AI for NWP modeling activities at NCEP and the US Community	Fanglin Yang
16:15	15	UKMO AI/ML activities	Tim Graham
16:30	20	AI activities at ECMWF and proposal for AI intercomparison project	David Richardson (WIPPS, ECMWF)
16:50	40	Discussion	
17:30		End Day 4	

Friday, November 8, 2024

WGNE Session 5 – Closing

Moderators:

Time (CET)	Duration (min)	Topic	Speakers (*remote)
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9:00	60	Potential new WGNE projects		All
10:00		2026 Systematic errors Workshop		All
10:30	30	Morning Break		
11:00	60	Action list review		All
12:00	30	40th WGNE session		All
12:30	90	Lunch		