



Royal Netherlands
Meteorological Institute
Ministry of Infrastructure
and Water Management

EC-EARTH General Assembly

19-21 March 2024
KNMI (Netherlands)

PROGRAM

Welcome,

Below you will find the full agenda, but first some practical information:

Coffee and cookies will be served every day from **8:30-9:00**.
All on site restauration will be in the Entrance Hall.

Rooms (links provided by email):

- Plenary sessions and breakout session #1: Buys Ballot
- Breakout sessions #2: Pascal+Richter
- Breakout sessions #3: Crutzen

- Breakout sessions #2 Bis. The Ocean+Ice WG session (Day 1) will split midway. The Ice subgroup will continue in the Repro room.

Day 1 - Tuesday 19

8:30	Registration (45 min.)	Chair: Werenfried Spit
9:15	Maarten van Aalst (Dir. KNMI) Werenfried Spit (KNMI)	Host Welcome
9:30	Shuting Yang (DMI)	Opening
9:44	Organizing Committee	Practical information
9:45	Frank Selten (KNMI)	<i>(Invited)</i> KNMI climate scenarios for the Netherlands
10:15	Tomi Raatikainen (FMI)	<i>(Invited)</i> The use of emulation in climate models
10:45	<i>Coffee break</i>	Chair: Qiong Zhang
11:10	Etienne Tourigny (BSC)	Carbon cycle modelling with EC-Earth3: lessons learned, ongoing activities and outlook
11:25	Jan Streffing (AWI)	AWI-EC-Earth activities - Toward a high resolution ESM
11:40	Short pitches (2 min. each)	
	Jenny Hieronymus (SMHI)	<i>(Online)</i> Net primary production annual maxima in the North Atlantic projected to shift in the 21st century
	Erwin Lambert (KNMI)	Towards high-resolution West-Antarctic ice sheet modeling in EC-Earth
	José M. R. González (AMET)	New implementation of runoff mapper in python
	Tido Semmler (Met Eireann)	Tuning experiments with modified OpenIFS parameters
	Risto Makkonen (FMI)	From Perturbed Parameter Ensembles to optimized CMIP7 aerosols
11:55	V. Sicardi and A. Carreric (BSC)	Equity, Diversity and Inclusion in EC-Earth
12:10	Poster pitches (19)	
12:30	<i>Lunch</i>	Chair: Klaus Wyser
Working Group Reports		
13:30	Technical	P. Le Sager (KNMI)
13:45	Ocean/ISM	V. Sicardi (BSC)
14:00	Atmospheric Composition	T. van Noije (KNMI)
14:15	Land and Vegetation	L. Nieradzick (Lund U.) + A. Alessandri (CNR-ISAC)
14:30	Paleo	Q. Zhang (Stockholm U.)
14:45	Tuning	J. von Hardenberg (Politecnico di Torino)
15:00	Intellectual Property Rights	E. Tourigny (BSC)
15:15	<i>Coffee break</i>	
15:30 – 17:00	BREAKOUT SESSIONS	
	#3 – Land/Vegetation (Chairs: Lars + Andrea) Room: Crutzen	#2 – Ocean/Ice Sheet (Chair: Valentina Sicardi) Room: Pascal+Richter
		#1 – Atmospheric Composition (Chair: Twan van Noije) Room: Buys Ballot
17:00 – 18:30	POSTER SESSION See list at the end of this program	
		 

Day 2 – Wednesday 20

SCIENCE TALKS

Chair: Jost van Hardenberg

9:00	Adrian Hill (ECMWF)	Update on OpenIFS developments
9:15	Eemeli Holopainen (FORTH)	Implementation of HAM-M7 to OpenIFS
9:30	Anna Lewinschal (MISU)	EC-Earth coupled atmosphere ocean single column model
9:45	Eric Ferrer (BSC)	Model testing procedure at BSC
10:00	Frank Selten (KNMI)	Synchronization based tuning of model parameters
10:15	Federico Fabiano (ISAC)	Impact of model tuning on the climate sensitivity of EC-Earth3

10:30 *Coffee break*

Chair: Lars Nieradzik

10:50	Andrea Alessandri (ISAC)	On the diverging soil-moisture response of land surface models when prescribing vegetation variability from observations.
11:05	Fei Luo (CCRS)	<i>(Online)</i> The role of soil moisture on summer atmospheric circulation climatology and persistent heatwaves in the Northern Hemisphere
11:20	Emanuele Di Carlo (ISAC)	<i>(Online)</i> Effects of the realistic vegetation cover on predictions at decadal time scales
11:35	Paul Miller (Lund U.)	<i>(Online)</i> LPJ-GUESS in EC-Earth: status update and plans
11:50	Fransje van Oorschot (ISAC)	<i>(Cancelled)</i> Root zone storage representation in land surface models
12:05	Helene Hewitt (UKMO)	<i>(Invited)</i> Co-development of CMIP7
12:25	François M. + Christian R.	Announcement for EC-Earth 4 session

12:30 *Lunch*

13:30	Klaus Wyser (SMHI) Shuting Yang (DMI)	EC-Earth 4 WG / CMIP7 Task Team - Report and discussion
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15:00 *Coffee break*

15:15	Uwe Fladrich (SMHI)	GitLab and EC-Earth 4: Good practices and How-To
15:45	Jost von Hardenberg (Politecnico di Torino)	Tuning WG Breakout session

16:15 – 17:30

BREAKOUT SESSIONS

#1 - Climate Prediction
(Chair: Tian + Pablo)
Room: Buys Ballot

#2 - C-cycle
(Chair: E. Tourigny)
Room: Pascal+Richter

#3 - Paleo
(Chair: Q. Zhang)
Room: Crutzen

19:00 – 23:00

Dinner at De Rechtbank ([Site](#))

Korte Nieuwstraat 14, 3512 NM Utrecht

Day 3 - Thursday 21st

SCIENCE TALKS		Chair: Shuting Yang
9:00	Francisco Doblas-Reyes (BSC)	<i>(Invited)</i> Destination Earth's digital twin for climate adaptation
9:30	Valentina Sicardi (BSC)	Nemo 4 sensitivity tests
9:45	Alessandro Sozza (ISAC)	Data-driven strategies for accelerated ocean spin-up in EC-Earth4
10:00	Katherine Power (SU)	Using EC Earth3 to investigate the response of the removal of the West Antarctic Ice Sheet and implications to future climate
10:15	Jan IJzerman (KNMI)	Integration of Antarctic freshwater LRFs into EC-Earth3 and the interactions with the Southern Ocean.
10:30	Aude Carreric (BSC)	<i>(Online)</i> Comparing the seasonal predictability of Tropical Pacific variability in EC-Earth3 at two different horizontal resolutions
10:45	<i>Coffee break</i>	Chair: Stelios Myriokefalitakis
11:00	Klaus Wyser (SMHI)	New climate projections from the FORCeS project
11:15	Fernanda Matos (AWI)	Simulating the Late Pliocene for PlioMIP3 with AWI-CM3
11:30	Angelos Gkouvousis (UoC)	<i>(Online)</i> Brown carbon simulations in EC-Earth3
11:45	Discussion & Closing remarks (45 min)	
12:30	<i>Lunch</i>	

POSTERS

1	Nomikos Skyllas, Richard Bintanja, Etienne Tourigny	Changes in Arctic climate variability: effects on migratory birds
2	Thölix, L., Bergman, T., Makkonen, R., Partanen, A.-I., Merikanto, J.	Climate effects of boreal forests
3	Zhenqian Wang, Qiong Zhang, Fernanda Matos, Katherine Elizabeth Power	Configuring Land-sea Mask in EC-Earth3 for PlioMIP Experiments
4	Christian Rodehacke et al.	Coupled Ice Sheet-Earth System Model Simulations
5	Jason E. Williams, Twan van Noije, Michiel van Weele and Philippe Le Sager	EC-Earth3-AerChem in EU-HYway : climate impacts of the H2 economy
6	Matteo Nurisso, Alessandro Sozza, Paolo Davini	ECE-FAST: A new low resolution configuration for EC-Earth4
7	Risto Makkonen, Arundathi Chandrasekharan, Putian Zhou, Tommi Bergman	Evaluating EC-Earth/TM5 aerosols against MOSAiC Arctic expedition
8	Manolis Petrakis, Eirini Boleti, Rafaila-Nikola Mourgela, Konstantinos Seiradakis, Iulian Alin Rosu, Apostolos Voulgarakis	Evaluating the impact of wildfire emissions on tropospheric aerosols
9	A.C. (Cuun) Koek, R. (Richard) Bintanja, W.H. (Willem) van de Poll	Evaluation of EC-Earth3-CC ocean biases and their impact on North Sea Carbon Cycle characteristics
10	Iulian-Alin Rosu, Matt Kasoar, Eirini Boletti, Mark Parrington, Apostolos Voulgarakis	Global atmospheric impacts of aerosols emitted from the 2023 Canadian wildfires
11	Katinka Bellomo and Oliver Mehling	Impacts and state-dependence of AMOC weakening in a warming climate
12	Lianghai Wu, Twan van Noije, Vincent Huijnen, Adrian Hill, Marcus Koehler, Harri Kokkola, Eemeli Holopainen, Anton Laakso, Ramiro Checa Garcia, Philippe Le Sager	M7 aerosol scheme in OpenIFS 48r1
13	Arundathi Chandrasekharan	Northern Finland aerosol concentration trends from EC-Earth and observations
14	Dorothee Vallot	Opening the ice shelf cavities in Antarctica
15	Lichuan Wu, Erik J Schaffernicht, Anna Rutgersson, Minchao Wu, Peter L Langen, Rayanne Vitali	Air sea carbon exchange in the marginal ice zone
16	Rafaila-Nikola Mourgela, Eirini Boleti, Konstantinos Seiradakis, Klaus Wyser, Philippe Le Sager, Angelos Gkouvousis, Apostolos Voulgarakis	Quantifying the radiative forcing of wildfire emissions from pre-industrial times to the present day
17	Marion Devilliers	Ocean response to a century of realistic freshwater forcing around Greenland
18	Jerome Sauer	Studying extreme Arctic sea ice lows with rare event simulation techniques
19	Rayanne Vitali, Peter Langen, Anna Rutgersson, Erik Jan Schaffernicht, Lichuan Wu, Minchao Wu	Investigating High-Latitude Carbon Cycle Response and Earth System Feedbacks using an EC-Earth framework

Participants

1	Adrian Hill	ECMWF	42	Klaus Wyser	SMHI
2	Alessandro Sozza	CNR-ISAC	43	Lars Nieradzik	Lund University
3	André Jüling	KNMI	44	Laura Thölix	FMI
4	Andrea Alessandri	CNR-ISAC	45	Lianghai Wu	KNMI
5	Anna Lewinschal	Stockholm University	46	Manolis Petrakis	Technical University of Crete
6	Arundathi Chandrasekharan	FMI	47	Marcus Köhler	ECMWF
7	Carlos Perez Garcia-Pando	BSC / ICREA	48	María Gonçalves Ageitos	BSC
8	Cécile Osy de Zegwaart-Favart	U. C. Louvain	49	Marion Devilliers	DMI
9	Christian Rodehacke	DMI	50	Marios Chatziparaschos	BSC
10	Chuncheng Guo	DMI	51	Matteo Nurisso	CNR-ISAC
11	Cuun Koek	University of Groningen	52	Meryem Bouchahmoud	FMI
12	David Wårlind	Lund University	53	Montserrat Costa Surós	BSC
13	Declan O'Donnell	FMI	54	Nomikos Skyllas	Groningen University / KNMI
14	Dewi Le Bars	KNMI	55	Oliver Mehling	Politecnico di Torino
15	Dorothee Vallot	SMHI	56	Paolo Davini	CNR-ISAC
16	Eemeli Holopainen	FORTH/ICE-HT	57	Philippe Le Sager	KNMI
17	Eric Ferrer	BSC	58	Pirkka Ollinaho	FMI
18	Erik J. Schaffernicht	Uppsala University	59	Qiong Zhang	Stockholm University
19	Erwin Lambert	KNMI	60	Rafaila-Nikola Mourgela	Technical University of Crete
20	Esteban Rodríguez Guisado	AEMET	61	Ramiro Checa-Garcia	KNMI
21	Etienne Tourigny	BSC	62	Rashed Mahmood	DMI
22	Eveline van der Linden	KNMI	63	Rayanne Vitali	Aarhus University
23	Feba Francis	U. C. Louvain	64	Risto Makkonen	FMI
24	Federico Fabiano	CNR-ISAC	65	Saji Varghese	Met Éireann
25	Fernanda Oliveira Matos	Alfred Wegener Institute	66	Shuting Yang	DMI
26	Francisco Doblás-Reyes	BSC	67	Susanna Corti	CNR-ISAC
27	François Massonnet	U. C. Louvain	68	Stelios Myriokefalitakis	NOA
28	Frank Selten	KNMI	69	Thomas Reerink	KNMI
29	Fransje van Oorschoot	TU Delft/ISAC-CNR	70	Tian Tian	DMI
30	Gijs van den Oord	eScience Center	71	Tido Semmler	Met Éireann
31	Iulian Alin Rosu	Technical University of Crete	72	Tomi Raatikainen	FMI
32	Izidine Pinto	KNMI	73	Tommi Bergman	FMI
33	Jan Streffing	Alfred Wegener Institute	74	Twan van Noije	KNMI
34	Jan IJzerman	KNMI	75	Uwe Fladrich	SMHI
35	Jason Williams	KNMI	76	Valentina Sicardi	BSC
36	Jerome Sauer	U.C. Louvain	77	Vikki Thompson	KNMI
37	Jorge Bernales	DMI	78	Vincent Huijnen	KNMI
38	Jose Antonio Parodi-Perdomo	AEMET	79	Virna Meccia	CNR-ISAC
39	José María Rodríguez González	AEMET	80	Werenfried Spit	KNMI
40	Jost von Hardenberg	Politecnico di Torino	81	Zhenqiang Wang	Stockholm University
41	Katherine Power	Stockholm University			

Online participants

1	Amirpasha Mozaffari	BSC	25	Manu Anna Thomas	SMHI
2	Angelos Gkouvousis	University of Crete	26	Marco Possega	CNR-ISAC
3	Annalisa Cherchi	CNR-ISAC	27	Maria Kanakidou	University of Crete
4	Anton Laakso	FMI	28	Minchao Wu	Uppsala University
5	Apostolos Voulgarakis	Technical University of Crete	29	Matteo Cini	CNR-ISAC
6	Athanasios Nenes	EPFL/FORTH	30	Pablo Ortega	BSC
7	Aude Carreric	BSC	31	Pasha Karami	SMHI
8	Biao Zhao	Uppsala University	32	Paul Miller	Lund University
9	Chiara Ventrucci	CNR-ISAC	33	Paul Nolan	ICHEC
10	Christian Stepanek	Alfred Wegener Institute	34	Peter Langen	Aarhus University
11	Christopher Danek	AWI	35	Petri Räisänen	FMI
12	David Docquier	KMI-IRM	36	Raffaele Bernardello	BSC
13	Eirini Boleti	Technical University of Crete	37	Rene Navarro	SMHI
14	Emanuele Di Carlo	CNR-ISAC	38	Retish Senan	ECMWF
15	Enda O'Dea	Met Éireann	39	Richard Bintanja	KNMI / RUG
16	Fei Luo	CCRS Singapore	40	Roberta D'Agostino	CNR-ISAC
17	Franco Catalano	ENEA	41	Shiyu Wang	SMHI
18	Giuseppe Zappa	CNR-ISAC	42	Tinja Olenius	SMHI
19	Harri Kokkola	FMI	43	Torben Koenigk	SMHI
20	Irene Trombini	Univ. of Bologna / CNR-ISAC	44	Ulas Im	Aarhus University
21	Iria Ayan	BSC	45	Ulrika Willén	SMHI
22	Jenny Hieronymus	SMHI	46	Vladimir Lapin	BSC
23	Lichuan Wu	Uppsala University	47	Wilhelm May	Lund University
24	Lina Teckentrup	BSC			