

9th ENES HPC Workshop
on “HPC for high-resolution climate and weather modelling”
 SMHI, Folkborgsvägen 17, Norrköping
 19 - 21 May 2026



Tuesday 19 May

13:00 - 13:30	<i>Registration & welcome coffee</i>	
	Welcome	
13:30-13:35	Welcome to Norrköping	Torben Koenigk - SMHI
13:35-13:40	Workshop introduction and opening remarks	Mario Acosta - BSC
13:40-17:30	Session 1 – European and International Collaboration	Chairs: Mario Acosta & Joachim Biercamp
13:40-14:05	European Network for Earth System Modelling - Research Infrastructure	Bryan Lawrence - NCAS
14:05-14:30	EDITO - Building the European Digital Twin Ocean	Renaud Dussurget - MERCATOR
14:30-14:55	Terra DT (TBC)	Sebastian Milinski - ECMWF
14:55-15:20	The Mimer AI factory	Rossen Apostolov - NAISS
15:20-15:40	<i>Coffee break</i>	
15:40-16:05	Adapting ECMWF's Integrated Forecasting System to GPUs	Michael Lange - ECMWF
16:05-16:30	ICON everywhere and for everyone – efficiency and challenges	Hendryk Bockelmann - DKRZ
16:30-16:55	How ESIWACE3 is supporting Europe's climate modelling community by fostering collaborations on service projects	Erwan Raffin - Bull Gijs van den Oord - NLESC
16:55-17:15	Developments and directions in Earth System Modelling	Stan Posey - NVIDIA
17:15-17:30	General discussion & end of workshop day 1	
17:30-18:30	Meetings of the ENES Task Forces	

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Wednesday 20 May		
08:30-08:45	<i>Welcome coffee</i>	
Session 1 – contd.		
08:45-09:10	Challenges and opportunities for stronger collaboration between European HPC and weather & climate research communities	Estela Suarez - JSC
09:10-12:30	Session 2 – Performance and accelerators	
		Chairs: Jean-Christophe Rioual & Xavier Yepes
09:10-09:35	Recent progress on ECMWF’s performance-portable model	Sara Faghih-Naini - ECMWF
09:35-10:00	Co-designing RISC-V Architectures with NEMO5 dwarfs for weather and climate models	Antoni Portero - BSC
10:00-10:25	Porting of the ACCORD/ALARO NWP model to GPUs	Daan Degrauwe - RMI
10:25-10:45 <i>Coffee break</i>		
10:45-11:10	Porting NEMO to GPUs	Sergi Siso - STFC
11:10-11:35	Source-to-source translation for automatic GPU porting and model development applied to LMDZ using LOKI	Remi Kazeroni - IPSL
11:35-12:00	From CMIP6 to CMIP7: a globally coordinated effort on computational and energy metrics	TBC
12:00-12:25	Porting LFRic to accelerator-based architectures	Michèle Weiland - EPCC
12:30-13:40 <i>Lunch break</i>		



Note: Time for speakers includes 5 minutes for questions

 	<p>ESiWACE3 has received funding from the European High Performance Computing Joint Undertaking (EuroHPC JU) and the European Union (EU) under grant agreement No 101093054. IS-ENES3 has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 824084.</p>
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13:40-16:55	Session 3 – AI and Machine Learning	Chair: Italo Epicoco
13:40-14:05	GLONET: Mercator's end-to-end neural global ocean forecasting system	Anass El Aouni - Mercator Ocean International
14:05-14:30	Building a European foundation model at scale: the case of WeatherGenerator	Timothy Hunter - ECMWF
14:30-14:55	HCLimRep: a foundation model for capturing the atmosphere, ocean, and sea ice interactions	Savvas Melidonis - Forschungszentrum Jülich
14:55-15:20	From climate to impacts - the role of machine learning	Markus Reichstein - MPI-BGC
15:20-15:40	<i>Coffee break</i>	
15:40-16:05	Scale-aware metrics for improved climate modelling and evaluation	Viviana Acquaviva - Columbia University
16:05-16:30	Atlas Ocean - Fourier neural operators for S2S to decadal global ocean forecasting	Davide Donno - CMCC
16:30-16:55	Accelerating Earth system science: Infrastructure and AI foundations for climate and weather modelling	Aga Słowik- Microsoft
16:55-17:15	General discussion & end of day 2	
18:00	Guided tour of the historical industrial quarter, followed by social dinner	



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Thursday 21 May		
08:15-08:30	<i>Welcome coffee</i>	
08:30-12:30	Session 4 – Data	Chairs: Karsten Peters-von Gehlen, Bryan Lawrence & Pier Luigi Vidale
08:30-08:55	FUTURA: Towards the next-generation data infrastructure for integrated climate pathways	Paola Nassisi - CMCC
08:55-09:20	Large-scale data for regional action: The IPCC Atlas and a national adaptation case	Maialen Iturbide - IFCA
09:20-09:45	Towards safe and fearless lossy data compression in climate science and meteorology	Juniper Tyree - University of Helsinki
09:45-10:10	Data requirements for AI	Nikolay Koldunov - AWI
10:10-10:35	Selection and retention decisions	Sam Pepler - CEDA
10:35-10:50	<i>Coffee break</i>	
10:50-11:15	Efficient data handling in the ClimateDT ecosystem	Ivan Alsina Ferrer - BSC
11:15-11:40	EERIE Cloud: concept and application	Fabian Wachsmann - DKRZ
11:40-12:05	km scales hacked at global scale	Florian Ziemen - DKRZ
12:05-12:30	General discussion and closing remarks	
12:35-13:30	<i>Lunch</i>	

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