



# **Workshop on surface process coupling and its interactions with the atmosphere**

## **Programme**

# Wednesday

## Agenda

Agenda time displays according to the selected time zone.

**The selected timezone is Europe/London**

	<b>Registration and welcome</b> Gustav-Stresemann-Institut (GSI) Europäische Tagungs- und Bildungsstätte Bonn Langer Grabenweg 68 53175 Bonn-Bad Godesberg	
07:30 to 07:50	<b>Registration</b>	
07:50 to 08:00	<b>Welcome</b> <a href="#">Video recording</a>	Peter Dueben (ECMWF)
	<b>Today's Earth system models part 1</b> Chair: Charles Pelletier, co-chair: Luise Schulte	
08:00 to 08:20	<b>Effects of an interactive ocean component on NWP: Lessons learned so far and some thoughts on future directions</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Sarah Keeley (ECMWF)
08:20 to 08:40	<b>Coupled Modelling at the Met Office</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Tim Graham (Met Office)
08:40 to 09:00	<b>Advancing atmosphere-wave-ocean coupling to improve surface wind and wave forecasts for maritime shipping</b> Virtual presentation  <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Steve Penny
09:00 to 09:30	<b>Coffee break</b>	
	<b>Today's Earth system models part 2</b> Chair: Sarah Keeley, co-chair: Josh Kousal	

09:30 to 09:50	<b>Coupled Canadian Arctic Prediction System (CAPS) at Environment Canada</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Jean-Philippe Paquin (Meteorological Research Division, ECCC)
09:50 to 10:10	<b>Regional coupled modelling at km-scale over the UK: the RCS-UKC4 configuration</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Segolene Berthou (Met Office)
10:10 to 10:30	<b>Land surface-atmosphere interactions simulated by the ICON atmospheric model</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Jan-Peter Schulz (DWD)
10:30 to 11:10	<b>Discussion on ESM models</b> <a href="#">Video recording</a>	
11:10 to 12:10	<b>Lunch break</b>	
	<b>Coupling strategies and tools</b> Chair: Peter Dueben, co-chair: Charles Pelletier	
12:10 to 12:30	<b>YAC (Yet Another Coupler)</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Moritz Hanke (Deutsches Klimarechenzentrum GmbH)
12:30 to 12:50	<b>Coupling Earth System Model Components using the Atlas library</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Willem Deconinck (ECMWF)
12:50 to 13:10	<b>Coupling approaches for data-driven Earth system model components</b> <a href="#">Presentation slides</a>	Lorenzo Zampieri (ECMWF)
13:10 to 13:30	<b>On Numerical Coupling Errors in the Atmosphere-Ocean-Sea Ice System</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Valentina Schüller (Lund University)
13:30 to 14:10	<b>Discussion on coupling strategies and tools</b> <a href="#">Video recording</a>	
14:10 to 14:40	<b>Group photo and coffee break</b>	
	<b>Perspective discussions</b>	

14:40 to 15:25	<b>Breakout groups in split rooms</b>	
15:25 to 16:10	<b>Breakout groups join in main room and exchange</b>	
16:10 to 16:20	<b>Convenience break</b>	
	<b>Posters</b>	
16:20 to 16:30	<b>Poster introductions</b> <a href="#">Video recording</a>	
16:30 to 18:30	<b>Poster session with drinks</b>	
19:00 to 21:00	<b>Self-funded dinner</b> L'Osteria (in der Suerst)	

# Thursday

## Agenda

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07:30 to 08:00	<b>Arrival and registration</b> Gustav-Stresemann-Institut (GSI) Europäische Tagungs- und Bildungsstätte Bonn Langer Grabenweg 68 53175 Bonn-Bad Godesberg	
	<b>Energy cycle part 1</b> Chair: Luise Schulte, co-chair: Sarah Keeley	
08:00 to 08:20	<b>Momentum, heat and moisture exchange between the atmosphere and sea ice: Observations and Parameterizations</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Ian Renfrew (University of East Anglia)
08:20 to 08:40	<b>Towards energetically consistent ocean-wave coupling</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Lars Czeschel (University of Hamburg)
08:40 to 09:00	<b>On the challenges of vegetation - atmosphere coupling in the roughness sublayer of a numerical weather prediction system</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Metodija (Meto) Shapkalijevski (SMHI)
09:00 to 09:40	<b>Coffee break</b>	
	<b>Energy cycle part 2</b> Chair: Josh Kousal, co-chair: Charles Pelletier	
09:40 to 10:00	<b>Wind profile in the wave boundary layer</b> <a href="#">Video recording</a>	Lichuan Wu (Uppsala University)
10:00 to 10:20	<b>How waves and the ocean impact surface wind extremes in extra tropical cyclones</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Sophia Brumer (Laboratoire d'Aérodologie)

10:20 to 10:40	<b>Comparing Estimates of Whitecap Coverage from a Spectral Wave Model with Oceanic Observations</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Adrian Callaghan (Imperial College London)
10:40 to 11:15	<b>Discussion on energy cycle in break out room</b>	
11:15 to 12:30	<b>Lunch break</b>	
12:30 to 12:50	<b>Discussion on energy cycle together</b>	
	<b>Water cycle part 1</b> Chair: Jasper Dennisen, co-chair: Sarah Keeley	
12:50 to 13:10	<b>Biophysical feedbacks enhancing dry and hot conditions</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Diego Miralles (Ghent University)
13:10 to 13:30	<b>Revisiting bare ground evaporation in the Soil, Vegetation and Snow (SVS) land-surface scheme</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Vincent Fortin (Environment and Climate Change Canada)
13:30 to 14:00	<b>Coffee break</b>	
	<b>Water cycle part 2</b> Chair: Josh Kousal, co-chair: Charles Pelletier	
14:00 to 14:20	<b>Impact of land surface dynamics on temperature forecast performance</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Rene Orth (University of Freiburg)
14:20 to 14:40	<b>How well do dynamical seasonal forecasts capture soil-moisture atmosphere coupling?</b> Virtual presentation  <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Jonathan Day (ECMWF)
14:40 to 17:00	<b>Discussion on water cycle in break out rooms and together. Wrap up, general discussion</b> <a href="#">Video recording</a>	