

**IMPRS-ESM Annual Retreat 2018; 5-7 September, Vitalia Seehotel, Bad Segeberg**

Bus departure at the *Geomatikum* in Hamburg: 8:00am (estimated travelling time 1:30h)

Expected arrival at the '*Vitalia Seehotel*' in Bad Segeberg: 9:30am

**Wednesday, 5 September 2018**

<b>Time</b>	<b>Speaker</b>	<b>Topic</b>
<i>Session Chair: Bernhard Schulz</i>		
10:15	<b>Antje Weitz</b>	Opening of the IMPRS-ESM Retreat 2018
10:20	<b>Martin Claussen</b>	Status of the IMPRS-ESM
10:45	<b>Sirisha Kalidindi</b>	Effect of varying obliquity on the climate of terra-planets
11:00	<b>Hao-wei Wey</b>	The roles of leaf phenology in modeling the drought response of Amazon forests
11:15	<b>Alexander Lemburg</b>	The relationship between the TEJ and Sahel rainfall on various time scales
11:30	<b>Leonore Jungandreas</b>	The influence of deep convection on the West African monsoon and the atmosphere - vegetation interaction during the mid-Holocene
11:45	<b>Guilherme Torres Mendonça</b>	The linear response function approach as a unified framework to characterize climate-carbon cycle sensitivities
12:00	<i>Lunch</i>	
<i>Session Chair: Sebastian Müller</i>		
13:30	<b>Clara Burgard</b>	Can we simulate realistic sea-ice brightness temperatures from MPI-ESM output?
13:45	<b>Andreas Lang</b>	The long-term variability of extreme storm surges in the German Bight
14:00	<b>Sebastian Milinski</b>	Attributing Changes of Internal Variability to Global Warming Using a Large Ensemble
14:15	<b>Olga Erokhina</b>	Implementing of an interactive iceberg module in the MPI-OM: Eulerian approach
14:30	<b>Arjun Kumar</b>	Subannual tropical and subtropical atmosphere-ocean interaction
14:45	<b>Aaron Spring</b>	Assessing decadal variability and predictability of the carbon cycle with MPI-ESM
15:00	<i>Coffee break</i>	
<i>Session Chair: Armin Haghshenas</i>		
15:45	<b>Nele Neddermann</b>	Multi-decadal variations in seasonal predictability of European summer climate
16:00	<b>Vimal Koul</b>	Observed and Modelled Relationship of Subpolar Gyre Strength with Salinity in the Eastern Subpolar North Atlantic
16:15	<b>Lydia Keppler</b>	Regional Wind Variability Drives the Southern Ocean Carbon Sink
16:30	<b>Gathering of doctoral candidates:</b> election of new representatives, internal discussion of issues concerning being an IMPRS-ESM PhD candidate	
16:35	<i>ExeCom Meeting (room: Pisa)</i>	
19:00	<i>Dinner</i>	

Thursday, 6 September 2018

	Speaker	Topic
<i>Session Chair: Alexander Lemburg</i>		
09:00	Veit <b>Lüschow</b>	The response of AMOC to wind forcing changes in an eddying and a non-eddying ocean
09:15	Tim <b>Rohrschneider</b>	Conceptual and numerical views of the AMOC: an inter-hemispheric perspective on overturning dynamics
09:30	Lukas <b>Krönert</b>	Development and analysis of high-order numerical schemes for ICON-O for an improved representation of ocean eddies
09:45	David <b>Marcolino Nielsen</b>	Arctic coastal erosion in the Earth system under a changing climate
10:00	Laura <b>Suárez Gutiérrez</b>	Drivers of extreme European summer temperature variability
10:15	Tobias <b>Finn</b>	Towards an ensemble for non-linear and coupled atmosphere-land data assimilation
10:30	<i>Coffee break</i>	
<i>Session Chair: Marvin Heidkamp</i>		
11:15	Melinda <b>Gálfi</b>	A Large Deviation Theory-based Analysis of persistent temperature extremes in a Simplified General Circulation Model of the Atmosphere
11:30	Diego <b>Jiménez de la Cuesta Otero</b>	Earth's Transient Climate Response Constrained by Post-1970s Warming
11:45	Cathy <b>Li</b>	Atmospheric Chemistry Reactions in a Turbulent Flow: Application to an Urban Environment
12:00	Rafaela <b>Flach</b>	Green and blue consumptive water use accounting in Brazilian agriculture: a spatially-explicit assessment of management scenarios
12:15	Leonie <b>Ratzke</b>	Cultural ecosystem services of urban green spaces in Hamburg - a revealed preference approach
12:30	Anke <b>Müller</b>	Evaluating and improving representation of ecoregions and habitat types in the European Union's protected area network Natura 2000
12:45	<i>Lunch</i>	
<i>Session Chair: Clara Burgard</i>		
14:00	Elnaz <b>Roshan</b>	Would Solar Geoengineering Devalue Research on Climate Response?
14:15	Oliver <b>Geden</b>	Net zero emissions: the most actionable climate target
15:15	<i>Coffee Break</i>	

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<i>Session Chair: Sirisha Kalidindi</i>		
16:00	Armin <b>Haghshenas</b>	Zero-order bulk model of a sheared convective boundary layer: Regular entrainment closure scheme
16:15	Katherine <b>Fodor</b>	Analysis of Surface Layers in Free Convection Conditioned on Large-Scale Updrafts and Downdrafts
16:30	Lukas <b>Kluft</b>	Benchmark Calculations of the Climate Sensitivity of Radiative Convective Equilibrium
16:45	Sally <b>Dacie</b>	The tropical tropopause layer in a 1D model
17:00	Bernhard <b>Schulz</b>	Competing Effects of Wind Shear and Droplet Sedimentation within Stratocumulus Tops
17:15	<b>Plenary discussion of administrative questions</b> ( <i>participants are doctoral candidates and advisors</i> ) incl. supervision and the importance of hypothesis in scientific research	
19:00	<i>Dinner</i>	

Friday, 7 September 2018

Time	Speaker	Topic
<i>Session Chair: Diego Jiménez de la Cuesta Otero</i>		
09:00	Alexander <b>Winkler</b>	Limitations of Emergent Constraints of Multi-Model Projections
09:15	Marvin <b>Heidkamp</b>	Towards assessing the climatic impact of leaf thermoregulation
09:30	Pin-hsin <b>Hu</b>	Quantifying the importance of plant trait diversity in climate-vegetation interaction in present and past climate
09:45	Zoé <b>Rehder</b>	Modelling methane emissions from ponds at high latitudes
10:00	Theresa <b>Mieslinger</b>	Comparison of cloud fields from LES and satellite images
10:15	Hauke <b>Schulz</b>	Interplay between shallow convection and stratiform cloud layers
10:30	<i>Coffee break</i>	
<i>Session Chair: Laura Suarez Gutierrez</i>		
11:15	Tobias <b>Haufschild</b>	Controls of the coupled stratosphere-troposphere response to global warming in idealized models
11:30	Geet <b>George</b>	Observing the Relationship between Large-Scale Vertical Motion and Cloud Organisation in the Summertime Tropics
11:45	Sebastian <b>Müller</b>	Convective Aggregation in idealized simulations with SST gradients
12:00	Summary of the IMPRS-ESM Retreat 2018: what worked well, what did you like, what could perhaps be improved - and how?	
12:30	<i>Lunch</i>	
13:45	End Retreat and <i>Return to Hamburg by bus shuttle</i>	