

**International Max Planck Research School
on Earth System Modelling (IMPRS-ESM)**

Agenda

IMPRS-ESM Retreat 2011

**at the "Helnan Hotel" Reinstorf
(near Lüneburg)**

**Wednesday September 28 to
Friday September 30, 2011**

Science Focus:

The Upper Atmosphere in the Earth System

Time Schedule

Wednesday September 28, 2011

Time	Speaker	Topic
<i>Session Chair: Nina Maass</i>		
10:10	Antje Weitz	Opening of the IMPRS-ESM Retreat 2010
10:15	Bjorn Stevens	IMPRS-ESM – current state and future plans
10:45	Korbinian Freier	Adaptation to new climate by an old strategy? Modelling sedentary and mobile pastoralism in semi-arid Morocco
11:00	Marianela Fader	Dependence of countries on food imports due to limitations in domestically available land and water resources
11:15	Harshi Weerasinghe	Assessment of adaptations to mitigate agricultural and urban water stress due to global change – Integrated analysis of water harvesting and storage potentials
11:30	Delf Neubersch	On the Economic Value of Learning about Climate Sensitivity
11:45	Nicole Glanemann	Dark Clouds or Silver Linings? Knightian Uncertainty and Climate Change
12:00	<i>Lunch</i>	
<i>Session Chair: Benjamin Möbis</i>		
13:30	Natalie Trapp	The impacts of climate and weather variability on the European agricultural sector: options for farm-level adaptation
13:45	Hyung-Sik Choi	The value of weather and climate information on agricultural decisions
14:00	Christine Radermacher	Evaluation of heavy precipitation in REMO over Europe
14:15	Lee Miller	Solar and wind energy: same but different --- why these differences matter for power potentials and climatic impacts?
14:30	Karsten Peters	Ship emission influence on clouds: Insights from GCM simulations
14:45	Sebastian Schubert	A multi-canyon radiation scheme for urban canopy models
15:00	<i>Coffee break</i>	
<i>Session Chair: Stergios Misios</i>		
15:45	Pawlok Dass	Bioenergy as a mitigation measure
16:00	Thomas Krismer	On the Dynamics of the Quasi Biennial Oscillation
16:15	Felix Pithan	On the role of stably stratified turbulence in the climate system
16:30	Jade Garcia	Numerical Study of Entrainment in the Convective Boundary Layer
16:45	Ritthik Bhattacharya	Scale Adaptive Planetary Boundary Layer Models for Numerical Weather Prediction and Climate Modelling
17:00	Gathering of doctoral candidates: internal discussion of issues concerning being an IMPRS-ESM PhD candidate and election of new representatives	
17:00	ExeCom Meeting (<i>room will be announced in Reinstorf</i>)	
20:00	<i>Dinner</i>	
	evening lecture by Edwin Gerber ' <i>On being a successful graduate student</i> '	

Time Schedule

Thursday September 29, 2011

Time	Speaker	Topic
<i>Session Chair: Christine Radermacher</i>		
09:00	Felix Bunzel	The stratospheric feedback to increasing greenhouse gas emissions
09:15	Benjamin Möbis	The influence of the convective parameterization on the double ITCZ bias
09:30	Katrin Lonitz	Trade-cumuli statistics compiled from cloud radar measurements on Barbados
09:45	Armelle Remedio	Model characteristics of low jets and mesoscale convective systems in South America
10:00	Seethala C. (Chellappan)	Evaluating 3D effects in 1D VIS-NIR cloud retrievals using LES cloud fields and 3D radiative transfer
10:15	Vera Schemann	Scale (in)dependency of statistical cloud cover parametrizations
10:30	<i>Coffee break</i>	
<i>Session Chair: Lee Miller</i>		
11:15	Edwin Gerber	The upper atmosphere in the Earth system and in Earth system modelling
11:45	Discussion science focus 'The upper atmosphere in the Earth System'	
12:45	<i>Lunch</i>	
<i>Session Chair: Korbinian Freier</i>		
14:00	Natalia Sudarchikova	Mineral dust variability in the Southern Hemisphere
14:15	Malte Rieck	The role of heterogeneities and land-atmosphere interactions in the development of moist convection
14:30	Eleftheria Exarchou	The effect of tidally driven mixing on the transient climate response to CO2 increase
14:45	Ricarda Winkelmann	The 'Weak Underbelly' of the Antarctic Ice Sheet
15:00	Florian Ziemer	Climate feedbacks during a Heinrich Event
15:15	Steffen Tietsche	Predictability of extreme Arctic sea-ice anomalies
15:30	<i>Coffee Break</i>	
<i>Session Chair: Marianela Fader</i>		
16:15	Nina Maaß	Sea ice thickness retrieval using SMOS data
16:30	Chao Li	The stability of Atlantic MOC in a future warm climate
16:45	Phillipp Griewank	Modeling Sea Ice
17:00	Mario Krapp	ENSO variability in the Middle Miocene climate
17:15	Max Popp	The influence of the cloud-albedo feedback on the onset of a Runaway Greenhouse
17:30	Discussion of administrative questions with doctoral candidates and advisors	
19:00	<i>Dinner</i>	

Time Schedule

Friday September 30, 2011

Time	Speaker	Topic
<i>Session Chair: Eleftheria Exarchou</i>		
09:00	Stergios Misios	Simulating the effect of the 11-yr solar cycle on Earth's climate
09:15	Suvarchal Cheedela	Towards Reducing Numerical Uncertainties in Low Cloud Feedbacks
09:30	Peter Düben	Grid Refinement and Boundary Separation in a Finite Element Shallow Water Model
09:45	Antonija Rimac	The role of wind-induced inertial oscillations on the energetics of the ocean
10:00	Rosina Grimm	Ocean biogeochemical modeling of scenarios leading to eastern Mediterranean sapropel formation during the early Holocene
10:15	Mathias Heinze	Reconstructing the ocean carbon cycle & its interactions with climate during the Paleocene-Eocene Thermal Maximum
10:30	<i>Coffee break</i>	
<i>Session Chair: Harshi Weerasinghe</i>		
11:15	Ulrike Port	Vegetation-climate interactions during the Paleocene/Eocene
11:30	Ryan Pavlick	On scaling from functional traits to ecosystem functioning
11:45	Gernot Geppert	A sequential data assimilation framework for improved land surface albedo in JSBACH
12:00	Fabio Cresto Aleina	Poisson-Voronoi diagrams and the polygonal tundra
12:15	Helge Gößling	Moisture recycling, local coupling, and the large-scale circulation: How continental evaporation affects climate
12:30	<i>Lunch</i>	
<i>Session Chair: Hyung-Sik Choi</i>		
13:45	Maarten Braakhekke	Modelling the vertical soil organic matter distribution in different soils and ecosystems
14:00	Robert Schuldt (Getzieh)	Northern hemisphere peatland carbon cycle dynamics over the Holocene - modeled with the MPI-Earth System Model
14:15	David Broehan	The influence of arches and leads on sea ice dynamics
14:30	Summary of the <i>IMPRS-ESM Retreat 2011</i> : what was good, what can be improved - and how	
15:45	End retreat	
16:00	<i>Return to Hamburg by bus shuttle</i>	