

School of Integrated Climate System Sciences



PhD Students Retreat 02

February 24 to 25, 2010

Gut Gremmelin, Am Hofsee 33,
18279 Gremmelin, Germany



The objectives of this meeting are (1) to provide innovative perspectives of the climate system, (2) to become familiar with the objectives of new SICSS PhD students, and (3) to stimulate a beneficial exchange between PhD students by e.g. triggering presentations.

[All contributions should be given in English]

Wednesday, 24.02.2010.

7:30	Departure at Geomatikum
10:00 - 10:30	Arrival at Gut Gremmelin, welcome coffee
10:30 - 11:00	Lecture 1
Hans von Storch	Hot-spots of Integrated Climate System Sciences
11:00 - 12:30	Session 1 (10 minutes presentations plus 5 minutes discussion) Introduction of new PhD Students (Atmosphere)
Sebastian Bathiany	Detecting multiple equilibria of vegetation cover
Thomas Raub	Prognosis of future regime shifts in the ecosystem of the central Baltic Sea
Francesco Ragone	Stochastic Parameterization of Subgrid Processes in GCMs
Seshagiri Rao Kolusu	Atmospheric modeling of methyl halide emissions
Daria Schönemann	Dynamical system analysis in a conceptual box-model of tropical cyclones
Oliver Krüger	Informational value and stationarity of air pressure proxies of mid latitude storminess
12:30 - 14:30	Lunch and walk
14:00 - 15:30	Session 2 (10 minutes presentations plus 5 minutes discussion) Introduction of new PhD Students (Geophysics, biogeochemistry)
Gholomali Hoshyaripour	Volcanic iron bio-availability and its climate impact
Armine Avagyan	Dissolved organic and inorganic carbon dynamics in pore waters of mires in Russia
Sebastian Zubrzycki	Pools and mobilization of organic matter in permafrost affected soils of the Lena River Delta
	Creation of working groups (maximal 3) Identification of session chairs of the working groups

15:30 - 16:00

Coffee break

16:00 - 17:30

Session 3: Parallel working groups (Maximal 3 groups)

(Up to 5 impulse ppt slides per student on key questions/findings)

Chair(s) Session 3.1: NN

Chair(s) Session 3.2: NN

Chair(s) Session 3.3: NN

Participants for session 3.1 or 3.2 or 3.3

Benjamin Bechtel	Remote sensing of urban canopy parameters for enhanced modelling
Christian Daneke	Urban climatology and urban system modelling
Mikhail Itkin	Precipitation retrieval over land using multi-sensor satellite records
Bente Tiedje	Predicting ocean and mass volume transport based on oceanic data assimilation
Stavroula Biri	Estimation of frequency-wavenumber statistics of oceanic stochastic processes
Monika Barcikowska	Tropical cyclone hindcasts for SE Asia and Northwestern Pacific for dynamic downscaling methods in regional climate model assessment
Ronny Lauerwald	Quantification of transport and retention of dissolved, geogenic matter in river
Thorben Amann	The Elbe estuary as a transitino zone between terrestrial and marine systems
Ina Lorkowski	The carbon pump of the Northwest European shelf – Climate and eutrophication induced variability of the plankton dynamics
Bettina Walter	Adaptation of spring bloom building phytoplankton species of the North Sea on different stress factors initiated by climate change”
Claudia Günther	Early life-stages of the warm-water species sardine and anchovy in the North Sea
Ralph Rösner	Response of plankton dynamic to inter annual climatic variation and trend
Alexandra Kroll	Modelling the life cycle of coastal- and shelf sea- phytoplankton: Dynamics on seasonal and interannual time scales
Sebastian Sonntag	Modelling biological-physical feedback mechanisms in marine systems
Stefan Reiser	Klimabedingte VeRbreitungsAenderuNGEn von kommerziell wichtigen FiSch- und InVertebraTenbeständen in der Nordsee
Peter Schreiber	Fluxes of the trace gases methane and carbon dioxide between surface and atmosphere in high latitude peatlands
Inken-Marie Preuss	Impact of climate change on trace gas fluxes in northern wetlands: In situ studies for up-scaling methane emission measurements to the climate model gird scale

Marion Vanselov-Algan	Hydrology. carbon and nitrogen fluxes of a peatland In Northern Germany under climate change
Dan Yan	Land use change in Poyat Region, China and impact of climate change
Laura Niederdrenk	The hydrologic cycle of the Arctic and its variation
Wenke Wegner	Power and responsibility in environmental policy making
Jana Peters	Robustness and conflict potential of long term CO ₂ emissions scenarios
Wiebke Probst	Reactions to climate change: The economics of mitigation and adaptation
17:30 - 18:00	Lecture 2
Eva-Maria Pfeiffer	Pedosphere, the 7. sphere in the climate system
18:00 – 20:00	Joint Dinner
20:00 – 21:30	Joint evening

Thursday, 26.02.2010

8:30 - 9:00	Lecture 3
Oliver Dilly	Sustainability impact assessment
9:00 - 9:15	Session 2 latecomer (10 minutes presentations plus 5 minutes discussion) Introduction of new PhD Students (Climate Security)
Janpeter Schilling	Interactions between humans and the climate: Security aspects
9:15 - 10:30	Session 3.1, 3.2 and 3.3 (continuation) (modification according to the development on the previous day)
10:30 - 11:00	Coffee break
11:00 - 12:30	Session 3.1, 3.2 and 3.3 (continuation) Plenary wrap up
12:30 - 14:30	Lunch and walk
14:30 - 15:30	Session 4 Forthcoming SICSS Students Activities
Armine Avagyan, Bente Tiedje, Sebastian Sonntag (chairs)	Preparatory meeting for the cluster meeting in October 2010
Forthcoming activities	
NN	Hamburg Climate System Summer School 2011
NN	Doctoral Climate System Fair 2012

- 15:30 - 16:00** **Coffee break**
- 16:00 - 17:00** **Summary and concluding remarks**
Detlef Stammer, Eva-Maria Pfeiffer, Oliver Dilly
Oliver Dilly SICSS Activity Outlook
- 17:00** **Departure**
- 19:15** **Arrival at Geomatikum**
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Venue

Gut Gremmelin, Tel.: 038452/5110, info@gutgremmelin.de



Directions

By car

From Hamburg take Autobahn A20 and A19 and leave A19 at exit no. 13 "Güstrow-Süd/Teterow". After ~200m you turn left in the direction of Reinshagen. Follow the main road to Gremmelin. At the end of the street you turn right onto the cobbled road. You will find Gut Gremmelin on the left side.

By train

Take the IC train no. 2184 to Bützow leaving Hamburg on track no. 8 at 07:44. In Bützow you change to train RE 5307 to Güstrow from track no. 3 at 09:34. In Güstrow take a taxi to Gut Gremmelin.

