

1st CVAS workshop 28-30 November 2016
Guesthouse of the University of Hamburg
Rothenbaumchaussee 34, D-20148 Hamburg
Phone: +49 40 414 006 0

Monday 28.11.2016

Chair: Anne de Vernal

9:00-9:10 **Welcome and introduction**

9:10-9:40 **Christian Franzke**: Scaling models and processes

9:45-10:05: **Hege-Beate Fredriksen**: Scaling of temperatures produced by linear energy balance models

10:10-10:45 **Coffee Break**

10:45-11:25 **Shaun Lovejoy**: How scaling fluctuation analysis transforms our view of the climate

11:30-11:50: **Reik Donner**: Late Pleistocene interhemispheric asynchronicity of large-scale climate fluctuations

12:00-13:00 **Discussion**: (Shaun Lovejoy) Are high latitude paleodata (especially Greenland and Antarctic) representative of the global climate (in the Holocene and before)?

13:00-14:00 **Lunch**

Chair: Maisa Rojas

14:00-14:40 **Gunnar Spreen**: Variability of sea ice on small and short to large and long scales from observations

14:45-15:25 **Anne de Vernal**: Climate variability across scales: the case of Arctic-subarctic sea ice cover from marine sediment proxies

15:30-16:00 **Coffee Break**

16:00-17:00 **Plenary discussion** (Anne de Vernal): Sea Ice/sediments

17:00-18:30 **Poster session**

1. Dieter Tetzner: Stable water isotopes as climate tracers in the Laclavere Plateau, Antarctic Peninsula
2. Sebastian Wagner: The variability of North Atlantic climate on centennial-to millennial time scales – A Modeling study based on transient simulations of the Holocene
3. Takahito Mitsui: Interpreting the spectrum of Dansgaard-Oeschger events by an idealized ocean circulation model
4. Maisa Rojas & Fabrice Lambert:
5. Fabrice Lambert & Shaun Lovejoy: Analysis of 800 kyrs of dust data at 25 yr resolution
6. Raphael Hebert: The Climate response function and multicentennial climate variability
7. Jasper Franke: Linear or nonlinear? Exploring past climate variability using visibility graphs
8. Mathieu Casado: Archival of the water stable isotope signal in East Antarctic ice

cores

9. Johannes Lohmann: Inference and comparison of inverse models for glacial climate from Greenland ice core data

Tuesday 29.11.2016

Chair: Kira Rehfeld

9:00-9:10 **Eric Wolff**: Ice cores

9:10-9:50 **Louise Sime**: Isotopes in ice cores

9:55-10:35 **Thomas Laepple**: Variability of water isotopes in snow and ice-core records

10:40-11:10 **Coffee Break**

11:10-11:50 **Joel Guiot**: Temporal scales and signal modelling in dendroclimatology

12:00-13:00 **Discussion** (Michel Crucifix): To what extent, and on what timescales, can each proxy used for temperature be used as a quantitative measure of temperature?

13:00-14:00 **Lunch**

Chair: Isabel de Lima

14:00-14:40 **Peter Ditlevsen**: On the enigma of the climate spectrum at centennial and millennial time scales

14:45-15:05 **Kira Rehfeld**: A global perspective on Glacial- to Interglacial variability change

15:10-15:30 **Anais Orsi**: Antarctic climate variability at regional and continental scale over the last 2000 years

15:35-16:05 **Coffee Break**

16:05-16:40 **Costas Varotsos**: Spectral and (real space) fluctuation analysis: a case study on the recent episode of the Quasi-Biennial Oscillation and the strong El Niño event

16:45-17:45 **Plenary discussion** (Eric Wolff): Ice cores

17:45-18:15 CVAS steering group meeting

19:00-22:00 **Dinner** (Arkadasch, Grindelhof 17, 20146 Hamburg, +49 (0)40-448441; individual payment)

Wednesday 30.11.2016

Chair: Louise Sime

9:00-9:40 **Stephane Vannitsem**: Linearity versus nonlinearity in climate modelling

9:45-10:05 **Andrea Klus**: Holocene climate variability in an orbital-forced simulation: Cold events, abrupt mode transitions and quasi-decadal oscillations in the North Atlantic

10:10-10:45 **Coffee Break**

10:45-11:25 **Michel Crucifix**: Stochastic dynamical systems to apprehend climate system's

11:30-11:50 **Manisha Das**: Variability of Asian monsoon and its linkage with deep-sea water and ecological system of benthic foraminifera assemblages over 700 Ka

12:00-13:00 **Break out groups/Discussion**

13:00-14:00 **Lunch**

Chair: Hege-Beate Fredriksen

14:00-14:20 **Nishant Vats**: Variability in the East Asian Summer Monsoon during Holocene in East China Sea

14:25-14:45 **Isabel de Lima**: Precipitation variability - regional to global, decadal to centennial scales and beyond: space-time analysis and modeling

14:45-15:25 **Plenary discussion** (Review paper & PAGES special issue; Next steps, next workshop)

15:30 END OF WORKSHOP