

Mini Conference 3 Brief Description

Title: C-CASCADES Mini Conference 3 – Anthropogenic Perturbation of the Boundless Carbon Cycle

Date(s): 24th – 26st January 2018

Location: MPI-MET, Hamburg, Germany

Lead institution: Max Planck Institute for Meteorology (MPI-MET)

Type: Mini Conference

Contact name: Emily Mainetti

Contact email: _____

Local Contact: Tatiana Ilyina

Local contact email: tatiana.ilyina@mpimet.mpg.de

Description:

The main objective of this C-CASCADES Mini Conference is to advance our understanding of the changes in the boundless carbon cycle relative to the preindustrial state. We will focus on the effects of anthropogenic perturbations of the boundless carbon cycle, as well as on the challenges in observational and modeling studies in representing these perturbations.

With a focus on the changes in the boundless carbon cycle, this workshop is meant to contribute to a process that leads to a series of review papers on this topic, covering all aspects from processes to models.

Structurally, the mini-conference consists of 3 parts:

1. input talks by a range of experts (7x30' min talks);
2. poster session;
3. breakout groups with intense discussions.

Participants will act as rapporteurs in the individual breakout sessions, and will use this material together with the input from the talks to write a critical summary of the outcomes of the workshop.

Outcome for all participants: ECTS credit certificate

The participants are expected to acquire the following skills and knowledge during this mini conference:

- 1 - Understanding the key processes of the Anthropogenic Perturbation of the Boundless Carbon Cycle.
- 2 – Appraising and feedbacking scientific paper abstracts.
- 3 - Presenting and discussing results in a scientific setting.

Assessment criteria:

1 – Abstract appraisal: (a) share own abstract for peer / senior researcher feedback – to be submitted electronically by 10 January 2018; (b) read and review peer abstract – to be submitted electronically by 19 January 2018; and (c) discuss feedback during training breakout sessions.

2 – Scientific participation: (a) read at least 1 paper by an expert lecturer; (b) prepare high quality questions; (c) and active participation practiced during expert lectures.

3 – Individual poster (A0) on current research. To be submitted on 25 January 2018.

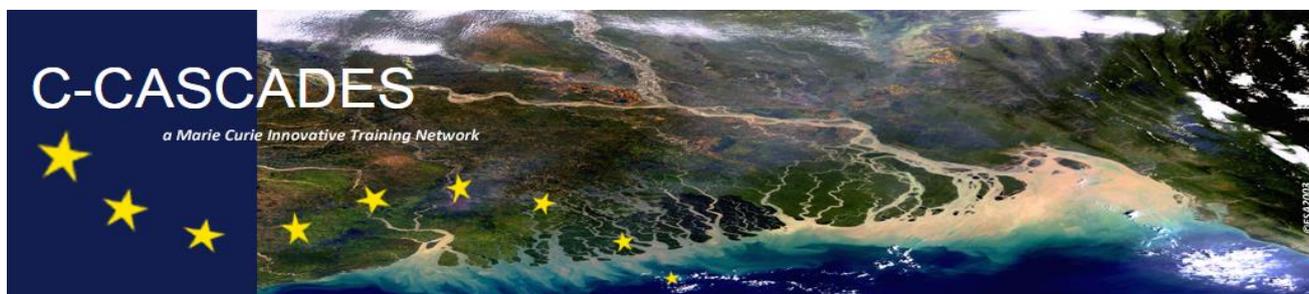
4 – Overall engagement in the mini conference, such as expert lectures and discussions.

ECTS awarded: 4

Awarding institution: MPG

Registration:

If you wish to register for this event, please send an email (including a CV and a motivation letter for non-C-CASCADES students), before 31 December 2017 to the "Contact email" above and add to the subject line "C-CASCADES Mini Conference 3 external application". *Maximum participants: 20.*



C-CASCADES Mini-Conference

Anthropogenic perturbation of the boundless C cycle

Wednesday, 24th January 2018

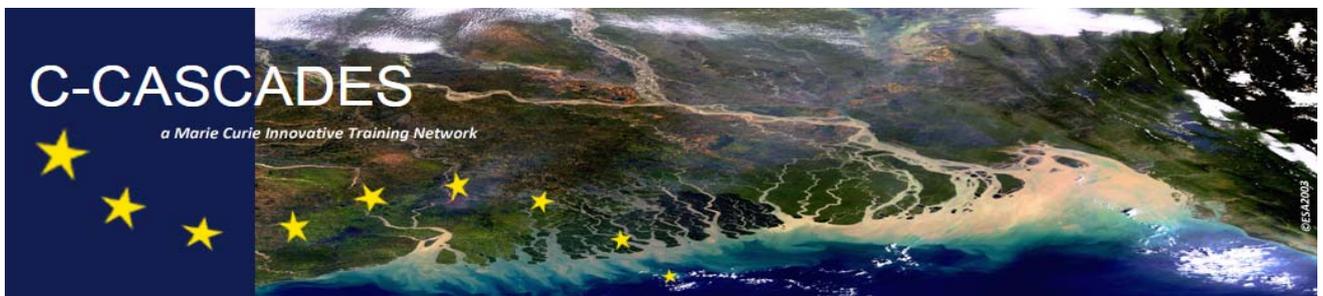
- 09:00-09:20 **Tatiana Ilyina** – Welcome and Introduction to Breakout Sessions (room B-101)
- 09:30-10:30 Parallel Scientific Breakout Sessions I and II (B-101, G-1729)
- 10:30-11:00 *Coffee Break (B-024)*
- 11:00-12:00 Parallel Scientific Breakout Sessions I and II (B-101, G-1729)
- 12:00-13:00 *Lunch (B-024)*
- 13:00-14:30 Parallel Training Breakout Sessions III and IV (B-101, G-1729)
- 14:30-15:00 *Coffee Break (B-024)*
- 15:00-16:00 Parallel Training Breakout Sessions III and IV (B-101, G-1729)
- 16:00- 18:00 The German Climate Computing Center (Lecture and Excursion; Bundesstr. 45)

Thursday, 25th January 2018 (room 022/023 Bundesstr. 53)

- 09:00-09:15 Tatiana Ilyina – Introduction to Expert Talks (co-chaired by ESRs)
- 09:15-9:45 **Jochem Marotzke** (MPI-M) – *Climate Futures*
- 9:45-10:15 **Ranga Myneni** (Boston University) – *Greening Earth*
- 10:15-10:30 Joint Discussion
- 10:30-11:00 *Coffee Break (room B-024)*
- 11:00-11:30 **Julia Pongratz** (MPI-M) – *Anthropogenic perturbation of the land C-cycle*
- 11:30-12:00 **Christian Beer** (Stockholm University) – *High latitude lakes, permafrost*
- 12:00-12:15 Joint Discussion
- 12:30-14:00 *Lunch (room B-024)*
- 14:00-14:30 **David Ho** (University of Hawaii) – *Mangroves and the tropical LOAC*
- 14:30-15:00 **Katja Fennel** (Dalhousie University) – *Coastal ocean carbon cycle*
- 15:00-15:15 Joint Discussion
- 15:15-16:00 KlimaCampus Colloquium: **Laurent Bopp** (IPSL/CNRS and Ecole Normale Superieure) – *The ocean carbon sink, today and tomorrow* (followed by informal get together with refreshments)
- 17:00-18:30 Poster Session (room B-002)
- 19:00 *Dinner*

Friday, 26th January, 2018 (room 022/023 Bundesstr. 53)

- 09:00-10:20 Reports from Breakout Sessions
- 10:20-10:30 Reflections and feedbacks on the Mini Conference
- 10:30-11:00 *Coffee Break (room B-024)*
- 11:00-12:15 Next steps, priorities for future
- 12:15-12:30 Concluding remarks
- 12:00-13:00 *Lunch (restaurant Rucola e Parma)*



Logistics brief

Important note: Although the training event itself is free to attend for external participants, any other costs, such as accommodation, travel and subsistence, are to be covered by them. Further information will be provided once an offer to attend is firmly accepted.

Location

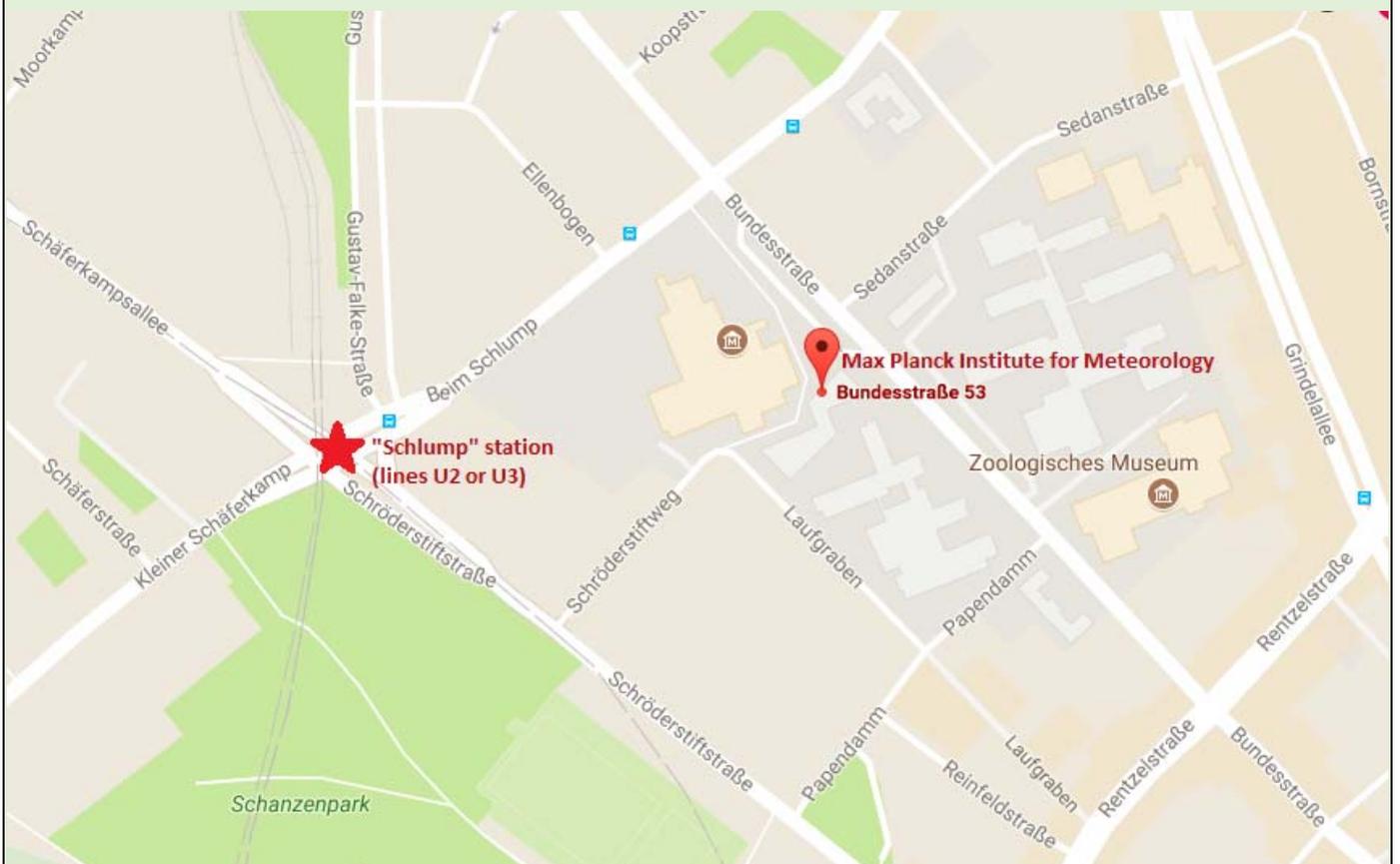
Max Planck Institute for Meteorology
Bundesstrasse 53
Hamburg
Germany

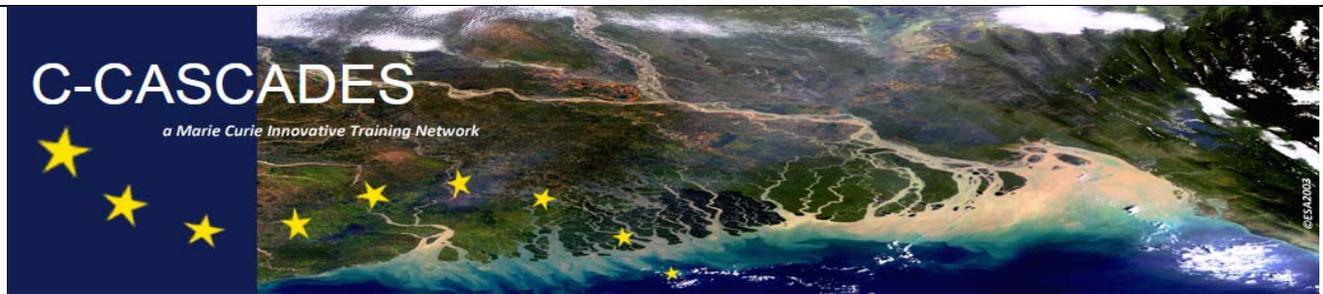
Access by public transport

The closest metro (U-bahn) station is : 'Schlump' on **line U2** (red) or **line U3** (yellow)

For access & direction from the airport or the train station, please check [MPI-MET website](#).

Map





Indicative Syllabus

Block 1: Research output and outcomes

Length: 37.5 hrs preparation time + 0.5 hr presentation (38 hrs)

Time slot: various

Trainer: various

Requirement: poster

Description: Participants will prepare and present an individual poster (A0) on their current research to a varied scholarly and scientific audience.

Block 2: Research and scholarship thinking

Length: 7.5 hrs contact time + 37.5 hrs preparation time (45 hrs)

Time slot: various

Trainer: various

Requirement: abstracts

Description: Participants will actively engage throughout the mini conference, especially in a number of parallel breakout sessions to further their knowledge base and transferable skills, namely:

Scientific theme: Changing boundless carbon cycle and representing boundless carbon cycle in ESMs.

Training theme: Preparing for a conference and active participation.

These themes will inform and hone in skills and knowledge to appraise and feedback paper abstracts.

Block 3: Expert lectures & colloquium

Length: 5.15 hrs contact time + 35.75 hrs preparation time (36 hrs)

Time slot: various

Trainer: various

Requirement: key articles

Description Expert lectures will provide the the oretical framework to this mini conference. Participants are required to actively engage with the discussion after each lecture.

The *a priori* reading of key papers, formulation of questions and active participation will stimulate these discussions.

Additional colloquium opportunities will provide further scientific exposure and engagement.