

The banner features a scenic view of a large, snow-capped mountain range in the background, with a calm body of water in the foreground. Two orcas are visible in the water, and a small white sailboat is on the right. The text is centered over the image.

University of Victoria Earth System Climate Model (UVic ESCM) Development Workshop

University of Victoria, British Columbia, Canada 4-6 May 2015

Day 1: Monday, May 4th

David Turpin Building, Room A144 (everyone welcome, seating limited to 30)

08:30 Remote participants join the workshop and test connections.

08:50 Andrew Weaver (University of Victoria, Canada)

- Opening remarks.

09:00 Michael Eby (University of Victoria, Canada)

- UVic ESCM Overview: past, present and future.

09:30 Katrin Meißner (University of New South Wales, Australia)

- Tidbits from down under (weathering, calcifiers, oxygen isotopes, and maybe the PETM).

10:10 Break (20 minutes)

10:30 Andreas Oschlies (GEOMAR - Kiel, Germany, remote from Kiel)

- Studies at Kiel: plankton, transport matrix, sediment transfer, calcifiers and silicifiers.

11:10 David Keller (GEOMAR - Kiel, Germany)

- More on marine biogeochemistry configurations at Kiel, plus a Cretaceous configuration.

11:50 Andreas Schmittner (Oregon State University, USA)

- Model developments at OSU: merging ocean biogeochemistry and isotopes with iron.

12:30 Lunch (90 minutes)

14:00 Jeremy Fyke (Los Alamos National Laboratory, USA, remote from Los Alamos)

- Ice sheets, ensembles, and git'n 'er done with the UVic ESCM.

14:40 Andrew MacDougall (ETH - Zürich, Switzerland)

- Permafrost, perturbed physics experiments, and zero emissions commitment.

15:20 Break (20 minutes)

15:40 Kirsten Zickfeld (Simon Fraser University, Canada)

- The effectiveness of artificial atmospheric CO₂ removal.

16:20 Damon Matthews (Concordia University, Canada)

- Fire, aerosols, weathering, and limits of a linear climate response to cumulative emissions.

17:00 Pub (everyone welcome)

19:00 Group Dinner at the "Thai Lemongrass" restaurant (walking distance from campus)

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University of Victoria, British Columbia, Canada 4-6 May 2015

Day 2: Tuesday, May 5th

David Turpin Building, Room A144 (participants)

08:30 Remote participants join the workshop and test connections.

08:50 Discussion and strategic planning (breaks as required).

15:00 Free time.

Day 3: Wednesday, May 6th

Bob Wright Centre, Room A319 (everyone welcome)

10:00 David Keller (GEOMAR - Kiel, Germany, 1 hour TAO seminar)

- An Earth system model evaluation of multiple climate engineering approaches.

Workshop Participants (* indicates remote participation):

Michael Eby (University of Victoria, Canada)

Jeremy Fyke* (Los Alamos National Laboratory, USA)

David Keller (GEOMAR - Kiel, Germany)

Alvaro Montenegro* (Ohio State University, USA)

Andrew MacDougall (ETH - Zürich, Switzerland)

Damon Matthews (Concordia University, Canada)

Katrin Meißner (University of New South Wales, Australia)

Andreas Oschlies* (GEOMAR - Kiel, Germany)

Andreas Schmittner (Oregon State University, USA)

Andrew Weaver (University of Victoria, Canada)

Kirsten Zickfeld (Simon Fraser University, Canada)

Participant Time Zones (all agenda times given above are PDT):

Victoria: **PDT** = UTC - 7 hrs

Corvallis: **PDT** = UTC - 7 hrs

Los Alamos: **MDT** = UTC - 6 hrs, **PDT + 1 hrs**

Montreal: **EDT** = UTC - 4 hrs, **PDT + 3 hrs**

Columbus: **EDT** = UTC - 4 hrs, **PDT + 3 hrs**

Kiel: **CEST** = UTC + 2 hrs, **PDT + 9 hrs**

Zürich: **CEST** = UTC + 2 hrs, **PDT + 9 hrs**

Sydney: **AEST** = UTC + 10 hrs, **PDT + 17 hrs**