

Third Circular – Workshop of the International Space Science Institute (ISSI)

October 2022

Tipping Points and Understanding EO data needs for a Tipping Element Model Intercomparison Project (TipMIP)

October 10 to 14, 2022

Conveners:

Annett Bartsch (b.geos, Korneuburg, Austria)
Victor Brovkin, (MPI Hamburg, Germany)
Jonathan Donges (PIK, Potsdam, Germany)
Sophie Hebden (Future Earth, Oxford, United Kingdom)
Tim Lenton, (University of Exeter, United Kingdom)
Hannah Liddy (AIMES, NASA Goddard Institute for Space Studies, USA)
Susanne Mecklenburg (ESA ESCAT, Oxford, United Kingdom)
Andrew Shepherd (University of Leeds, United Kingdom)
Narelle van der Wel (WCRP, Geneva, Switzerland)
Michael Rast (ISSI Bern, Switzerland)

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Objectives and Content of the Workshop

With relevance for priorities also of the World Climate Research Program (WCRP), the aim of this workshop is to advance knowledge about tipping elements and irreversibility, and impacts on Earth's climate and environment. As such the workshop will strive to address a consistent approach in the handling of data related to tipping elements within the scientific community, supporting the development of a roadmap for joint experiments (Tipping Element Model Intercomparison Project - TipMIP).

The convenors have established a draft agenda for the Workshop, which will form the basis for the scientific papers emerging from the Workshop, which will be peer-reviewed. The draft agenda can be accessed via the Workshop webpage (see below).

Preparation of abstracts and seed questions for Panel Discussions

In order to prepare the interventions at the Workshop and due to the fact that some draft inputs/elements to the papers may exist already, we expect presentations on these recent/exciting developments, and many discussions. All attendees are expected to contribute to one or more articles of the collection to be produced. **It is specifically requested to send a one-paragraph abstract of your interests by 6th October (end**

of business day), and for speakers/chairs of discussion sessions, to include content of your presentation. Please send inputs to sophie.hebden@ext.esa.int and michael.rast@issibern.ch

Product of the Workshop

A printed volume will be published after the workshop in the *Space Sciences Series of ISSI* by Springer Verlag (see www.issibern.ch/publications). The volume will be issued both as a hardcover book in our series and articles will also individually be published in a special issue in *Surveys in Geophysics*. We expect that papers will be submitted about 3 to 6 months after the workshop so they can reflect the discussions during the workshop. This volume is NOT intended to be the proceedings of the Workshop, but a collection of in-depth papers inspired by contributions and discussions at the Workshop, with emphasis on interdisciplinarity (a total of about 15 to 20 high-quality topical review papers is expected). All papers will be peer reviewed, and the volume is expected to appear about 12 months after the workshop.

ISSI is committed to ensuring open access status for all articles produced as part of the Workshop, based on Springer's Transformative Agreement. The associated procedure will be presented at the Workshop.

Posters

As part of the Workshop ISSI has the possibility to accept up to 10 Posters, which can be displayed at ISSI during the Workshop. **Participants planning to present a Poster during the Workshop are encouraged to inform the ISSI Secretariat as a matter of urgency by Thursday, 6 October, to enable the set-up for the Posters.**

Location and Travelling to Bern

The Workshop will be held at the International Space Science Institute, Hallerstrasse 6, 3012 Bern, Switzerland. Bern can be reached easily from three international airports: Zurich (ZRH), Basel and Geneva (GVA). Direct intercity trains to Bern depart every half hour from inside the airport buildings; see www.rail.ch for detailed departure times. The travel time is ~1.5 hours from Zurich airport and ~2 hours from Geneva airport. Bern is connected to many European cities by fast intercity trains (e.g. TGV Paris-Bern in 4.5 hours, or Frankfurt-Bern 5 hours). Timetable information of trains within and around Switzerland can be found at www.rail.ch. Also check out our website www.issibern.ch for a few more travel tips such as links to city maps of Bern, weather forecasts, tourist information and so on.

Funding

ISSI will provide the subsistence costs to all participants (i.e. hotel costs plus a per diem), but not the travel costs. There will be no registration fee for the Workshop.

Hotel reservations

A block booking has been made in city centre hotels for the Workshop. All participants at the workshop are **requested to contact the workshop secretaries, Yemisi**

Momoh/Jennifer Fankhauser (email: secretary@issibern.ch or Tel. +41-31-684-4896), **to indicate their arrival and departure dates**, as well as any special requests they may have (e.g. double room). Please note that all hotel reservations have to be made by the ISSI Secretariat.

Invitation letters for, e.g., visas can be requested by the ISSI Secretariat (same address) and will be sent within a few days.

Workshop Webpage

<https://workshops.issibern.ch/tipmip/>

Schedule/Timeline

Invitations and First Circular:	11 April 2022
Registration deadline:	30 April 2022
Second Circular:	2 September 2022
Third Circular:	3 October 2022
Final programme:	October 2022
Hotel deadline:	27 September 2022
Workshop:	October 10-14, 2022