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CriticalEarth

Assessing the risk of encountering climate tipping points due to anthropogenic global warming

<https://www.criticalearth.eu>
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Training climate specialists

The study of tipping points and critical transitions is leading climate science into a field of increasingly advanced mathematics and physics, creating a need for highly-trained specialists.

CriticalEarth, a Marie Skłodowska-Curie Actions - Innovative Training Network programme for young scientists, aims to prepare the next generation of climate scientists for this important task.

Climate tipping is a worrying concept. Assessing the risk of encountering climate tipping points due to anthropogenic global warming is one of the most urgent challenges in climate science today.

CriticalEarth focuses on six components of the climate system at risk of tipping: The Amazon; Greenland/Antarctic ice Sheets, Indian monsoon; Arctic sea ice; Permafrost and oceanic methane clathrates.

15 PhD international students train within a strong, cross-disciplinary network of 11 leading Universities and research institutions across Europe, supported by 8 additional partners in academia, industry, governmental- and non-governmental institutions.

Beneficiaries and partners

Beneficiaries: The Niels Bohr Institute, The University of Copenhagen, Denmark. Department of Mathematics, Technische Universität München, Germany. Department of Mathematics, Norges Arktiske Universitet, Norway. Department of Physics, Utrecht University, The Netherlands. Department of Mathematics, University of Exeter, Great Britain. Department of Physics, University of Reading, Great Britain. Department of Environmental Engineering, Politecnico di Torino, Italy. Department of Atmospheric Science, Koninklijk Meteorologisch Instituut, The Netherlands. Laboratoire de physique, ENS de Lyon, France. Department of Earth Physics and Astrophysics, Universidad Complutense Madrid, Spain. Institute for Chemistry and Biology of the Marine Environment, Carl von Ossietzky Universität Oldenburg, Germany.

Partner organisations: Department Mathematics and Computer Science, Freie Universität Berlin, Germany. Université Catholique de Louvain, Belgium. Consiglio Nazionale delle Ricerche, France. Danish Meteorological Institute, Denmark. Potsdam Institute for Climate Impact Research, Germany. Climate Risk Analysis, Mudelsee, Germany. Amigo Climate, Italy.

