

LAND-CLIMATE DYNAMICS

Investigating drought-related impacts on food systems.

Research Areas

- Climate change and extreme events;
- Drought dynamics;
- Land-climate interactions;
- Land use and land cover effects on climate;
- Agriculture-climate interactions.

Regions

Europe and global.

Partners

Center for Climate Systems Modeling (C2SM); MeteoSwiss; Agroscope; SwissRe; Research Institute for Forest, Snow and Landscape (WSL); LSCE/CEA; NASA/ GSFC; Max Planck Institute (MPI) for Meteorology; Max Planck Institute (MPI) for Biogeochemistry, International Institute for Applied Systems Analysis (IIASA); and Columbia University.

Contact

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Contribution to the WFSC

The group of Land-Climate Dynamics investigates climate extremes under a changing climate, including drought dynamics and climate related drought variability. In addition, it investigates the role of land use and land cover changes, including agricultural management, on regional climate and extremes. Understanding these dynamics and feedbacks is central for determining potential impacts on agricultural production systems, and the role of agriculture in climate change mitigation.



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