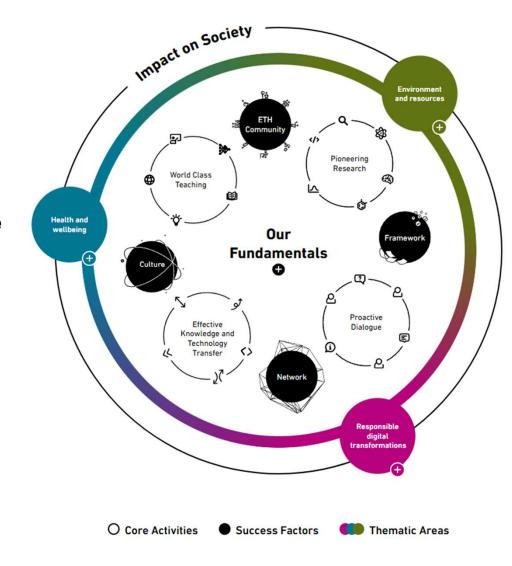




ETH Strategic Framework

Institutional Priorities 2025-2036

- ✓ Advancing and promoting the fundamentals
- ✓ Serving society as a trusted source of knowledge
- ✓ Becoming a champion and living lab for all scope decarbonization and circularity
- ✓ Becoming a lifelong learning institution and community
- ✓ Mastering the continuous blurring of boundaries
- ✓ Being a leader in the development and deployment of responsible AI





Vice President for Research 15.09.2025

Environmental sciences at ETH Zürich

Main departments involved: D-USYS, D-EAPS, D-BIOL, D-BAUG

Involvement of all ETH domain institutions in environmental sciences

Development of competence centers and technology platforms:

- Center for Origin and Prevalence of Life
- Center for Sustainable Future Mobility
- Competence Center for Materials and Processes
- Energy Science Center
- ETH for Development
- Word Food System Center
- Zurich-Basel Plant Science Center
- AgroVet-Strickhof
- Center for Climate Systems Modeling



























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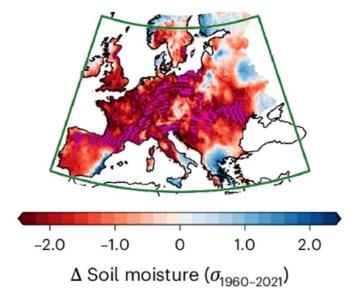
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Climate change impacts and mitigation

The environmental costs of indoor comfort



Expedition at the Venice Architecture Biennale



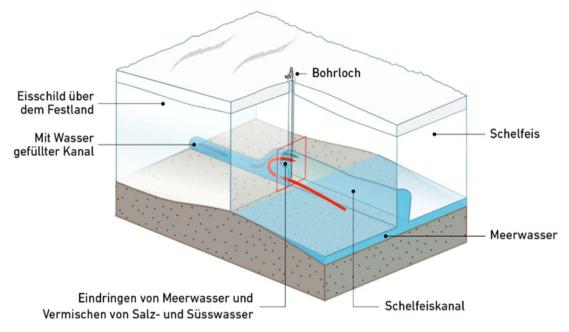
Soil moisture anomaly, June - August 2022 (Bevacqua et al. 2024)

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Glacier dynamics and their role in the global water cycle



Craig Stevens



Horgan et al. 2025; Illustration: Dorde Masovic und Josef Kuster

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ETH Zürich and the Swiss Polar Institute

SWISS POLAR INSTITUTE

- ✓ Founding member of the Swiss Polar Institute
- ✓ Involvement in past and present SPI flagship expeditions
- ✓ Since 2018, 37 funded projects with a total of 865 kCHF (Polar Access fund, SPI Flagship initiatives)



Photo by Derek Oyen on Unsplash

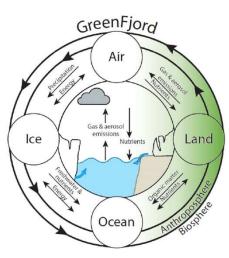


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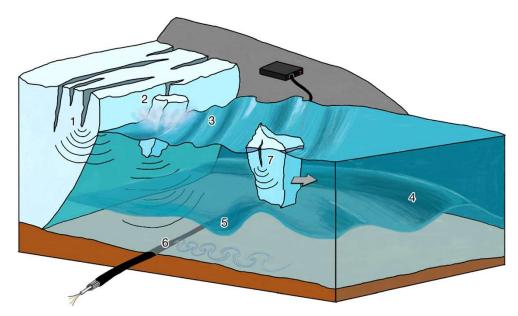
Flagship initiative GreenFjord



Greenlandic Fjord ecosystems in a changing climate: Socio-cultural and environmental interactions 2 Clusters lead by ETH Zürich Professors (L. Pellissier, L. Bröder)



https://greenfjord-project.ch



Gracier fracturing observed by fiber sensing though its acoustic signature travelling though the fjord waters (Gräff et al. 2025)

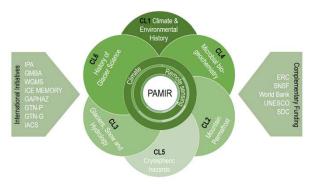


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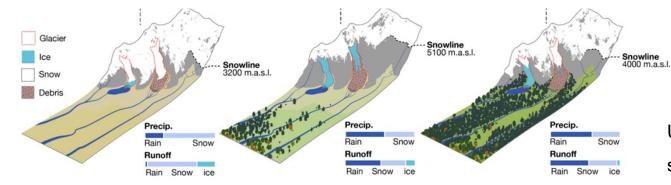
Flagship initiative PAMIR



From ice to microorganisms and humans: Towards an interdisciplinary understanding of climate change on the third pole



https://pamir-project.ch



Conceptual summary of catchment features (Fugger et al. 2024)

Understanding how evapotranspiration and sublimation fluxes influence the water budget in high elevation catchments

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Objectives of today's event

- ✓ Overview on current Swiss Polar research
- ✓ Exchange and networking across disciplines
- ✓ Obtain inputs from national and international experts
- ✓ Raise new interests for polar research
- ✓ Creation of new and strengthening of existing collaborations
- ✓ Joint exploration of possibilities for future expeditions and initiatives



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