

Switzerland

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Organization and Number of Staff:

GLOBE Switzerland is organized as an association (NGO) with a national implementation office situated in Berne, the capital of Switzerland. At the office in Berne three staff members work part time (at 60% to 80%). In addition, GLOBE Switzerland has six (from 2023 onwards even seven) regional offices implementing the GLOBE program in 3 languages (German, French, and Italian). The regional implementation is done by mandates to Teacher Education Universities (part time jobs of 10% to 20%) and allows to have direct access with the GLOBE activities to students' courses.

Funding by:

GLOBE Switzerland has major funding by the Swiss Federal Office of Environment. Additional funding for events (like GLOBE Contest, national GLOBE students conference) comes from private foundations, US Embassy, and sponsors. R&D projects are funded by other Swiss Federal Offices and private foundations.

Cooperating Organizations/Individuals:

GLOBE Switzerland has close cooperation with all regional Teachers Education Universities, some with and some without mandates. In addition, we cooperate with Swiss Federal Research Institutions, with universities and Federal Institutes of Technology for common R&D projects, for science outreach, and for citizen science projects. Collaboration with the Swiss Academy of Science, with national environmental education programs,

GLOBE Schools (what types, how many):

210 schools of all levels: primary, secondary, and high school. Most of the schools are public, some are private ones. The number of schools is still slightly decreasing because in some schools there are no more contact persons, and the school management does not feel the need to be a GLOBE school. On the other hand, a few new schools are added every year.

GLOBE Areas you and schools focus on:

Atmosphere, Hydrosphere, Biosphere, Pedosphere, and Earth as a System. Complementary to international protocols, national offers on agriculture (biodiversity and climate change), phenology and water quality are very often implemented.

Number of Schools Reporting Data over Past Year:

14

Program Implementation, International Cooperation in GLOBE Network, and Activities over Past Year (categorized by GLOBE Strategic Plan 2018-2023 Goals):

1. Education

In numerous GLOBE introductory trainings and workshops for in-service and pre-service teachers, future multipliers in all regions of Switzerland could be reached by the national implementation office and by the six regional offices. The training units were carried out by trainers and our regional experts who are employed at the Universities of teacher Education. In addition to workshops **more than 200 individual consultations of teachers were carried out** as in the last year before or while they were implementing GLOBE offers.

2. Science

We are steadily working on our national GLOBE offers in collaboration with partners of teachers' education and with scientific partners. In addition, we have **close collaboration with the Swiss Federal Office of Environment** to develop science education offers adapted to their needs. In 2022, our collaboration was focused on the following partners from science:

- ETH Zurich: Training course for young scientists to accompany school classes in their research projects on farms on biodiversity and climate change.
- ETH Zurich, Swiss Academy of Science and Research Institute of Organic Agriculture: two Workshops for teachers on science outreach for the two topics biodiversity and climate change.
- Swiss Federal Institute for Forest, Snow and Landscape Research WSL: Common projects on phenology in forests and forest pests.
- Botanical Garden of the University of Berne: Training course for teachers and public relations for topics around phenology.
- Swiss Federal Office of Meteorology and Climatology: Common project on phenology.
- Swiss Federal Office of Environment and Bern University of Applied Science: Common citizen science project on forest phenology (particular trees).
- Oeschger Centre for Climate Change Research (OCCR): Collaboration to organize the first national students scientific conference in 2022 (GLOBE Contest).

3. Community

Between September 2021 and May 2022, around 1400 students from three school levels (5th/6th grade, 7th-9th grades, high school) from all parts of the country did research on exciting topics. With great commitment and under the guidance of their teachers, they prepared their results as posters and submitted them to GLOBE Switzerland. On June 24, 2022, the final **research conference took place at the University of Bern**. Selected groups of students presented and discussed their research and a judging panel awarded prizes. The conference attendees were honoured by the guest lectures of Thomas Zurbuchen (Associate Administrator of NASA's Science Mission Directorate), Nina Buchmann (professor at Swiss Federal Institute of Technology Zurich) and Samuel Nussbaumer (glaciologist at the University of Zurich). They provided exciting insights into their fields of research - entirely in the spirit of Science Outreach.



4. Technology

We steadily work on our offers, restructure our GLOBE website (in three languages), and make it more user-friendly.

In the area of phenology, we are working on the **introduction of temperature and humidity probes (air and soil) to measure the microclimate in observed plants**. These data will provide information on how much the microclimate influences phenology. In addition, we are testing a soil microphone to record the sounds of soil animals. In the future, this scientific method should enable us to make statements about biodiversity in the soil.

5. Communications

Three to four times a year the national implementation office sends a **newsletter to Swiss teachers network**. Each time, the newsletter contains the most important information coming from international program and points out activities, campaigns and training opportunities. If necessary, target groups are contacted by direct mailings. We regularly promote selected offers on social media.

Plans and Ideas for Next Year:

Over the next two years, we are focusing on action orientation in a research project. The point is that we want to move from research and understanding to action with all our offerings. For us, it is important that we do not engage in any actionism, but rather work out well-functioning instructions for meaningful actions that teachers can implement in practice.