



PERMOS Data Policy

This document defines the data policy of the Swiss Permafrost Monitoring Network (PERMOS). PERMOS is carried by seven partner institutions: ETH Zurich (ETHZ), the Universities of Fribourg (UniFR), Lausanne (UniL), Zurich (UZH), and Innsbruck (UIBK), the University of Applied Sciences and Arts of Southern Switzerland (SUPSI), and the WSL Institute for Snow and Avalanche Research SLF (SLF). PERMOS receives substantial funds from the Federal Office of Meteorology and Climatology (MeteoSwiss) in the framework of GCOS Switzerland, the Federal Office for the Environment (FOEN), and the Swiss Academy of Sciences (SCNAT). The objective of the PERMOS Data Policy is to ensure and facilitate full and open access to scientific data and data products obtained within the framework of PERMOS. The PERMOS Data Policy is binding for all use of PERMOS data and data products.

The PERMOS Data Policy is subject to regular review by the PERMOS Steering and Scientific Committee and is part of the Appendix of the PERMOS Agreement 2023–2026.

1 Collected Data

As used in this document, the term «*data*» refers to raw data, metadata and data products (i.e., processed and derived data). It includes field data obtained in the scope of and with financial support of PERMOS as well as related data products, documentation and metadata. The following data are collected: ground surface temperatures, borehole temperatures, meteorological data, geophysical surveys, terrestrial geodetic surveys and GNSS data.

2 Data Submission

All data of long-term value obtained in the scope of and with financial support from PERMOS must be submitted to PERMOS for long-term archiving and dissemination via the PERMOS Data Management System. This also includes metadata and raw data to ensure traceability and to facilitate future re-processing.

Deadline for submission for observational data and metadata is the 31st of October after the end of the observation period (i.e. hydrological year). For example, data of the hydrological year 2023/2024 must be submitted by 31st of October 2019.

Data submitted to PERMOS must conform to the defined format and will be processed, quality checked and documented by the PERMOS Office (PO). Update of the data sets following quality checks should be submitted as soon as available, preferably within one year after initial submission. Updates of metadata (e.g. changes in the measurement system) have to be submitted together with the observational data.

3 Data Sharing Policy

3.1 Open Access

PERMOS data are licensed under Creative Commons Attribution 4.0 International License (CC BY 4.0). They are made available through the data portal on the PERMOS website (www.permos.ch) as well as in DOI releases (cf. 3.3).

3.2 Acknowledgement

Acknowledgement for PERMOS data in publications must be in the following form:

- 1) For graphs/illustrations generated and provided by PERMOS, when showing the data in graphical form, or when data from several PERMOS sites is used, add to the caption: «Data source: Swiss Permafrost Monitoring Network (PERMOS)». It is up to the data users to additionally acknowledge the responsible PERMOS partner institution(s).
- 2) For all other use of PERMOS data the acknowledgements (or corresponding section) must include that « ... data are provided by [name of investigator(s) and/or institution(s)], as part of PERMOS, supported by MeteoSwiss(in the framework of GCOS Switzerland)/BAFU/SCNAT.»

PERMOS strongly recommends contacting the responsible PERMOS partner institution(s) to their information and to obtain detailed information on data acquisition and processing.

3.3 Publication and DOI-Number

PERMOS data is regularly published with a PERMOS DOI number:
10.13093/permos-[Subset]-[Year]-[Consecutive_number]

Subsets can be published for different data types such as bh (borehole temperatures), gst (ground surface temperatures), meteo (meteo data), tgs (terrestrial geodetic survey), ert (electrical resistivity tomography).

3.4 Exceptions

Exceptions to this policy sought by a PERMOS partner institution must be fully documented by the PERMOS partner institution and approved by the PERMOS Steering Committee. For original data from other sources (e.g. MeteoSwiss, BAFU), which are used for calculations, analyses and derivations, the terms of use of the respective data owners apply.

PERMOS Office/jn, revised May 2016, Nov. 2018, Jan. 2019, Nov. 2022