

Fabien Maussion

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Last updated: July 2023. Blue font indicates clickable links.

Professional career

From July 2023	Associate professor at the School of Geographical Sciences , University of Bristol
2021-2023	Associate professor at the Department of Atmospheric and Cryospheric Sciences (ACINN), University of Innsbruck Habilitation obtained in 2021 with the title “ Numerical modelling of global glacier change ”. <i>The habilitation is the highest university degree in Germany and Austria. It certifies the ability to be a full professor in these countries.</i>
2021	3 months research stay as “invited professor” (funded) at Université Grenoble Alpes & Institut des Géosciences de l’Environnement
2015–2021	Assistant professor at ACINN , University of Innsbruck
2014–2015	Post-doc at ACINN , University of Innsbruck
2008–2014	PhD then Post-doc at the Chair of Climatology , Technische Universität Berlin
2006–2007	Interim year as engineering trainee – Space mechanics at C-S Group , Toulouse

Education

2008–2014	Technische Universität Berlin - Chair of Climatology – PhD thesis PhD Thesis defended in February 2014 with the title “A new atmospheric dataset for High Asia : development, validation and applications in climatology and in glaciology” (highest honors). Supervisor: Dieter Scherer.
2007–2008	Technische Universität Berlin – International exchange year and Master degree

2008 Master degree at **SUPAÉRO** – Institut Supérieur de l'Aéronautique et de l'Espace, Toulouse (aerospace engineering school)

Awards

Wilhelm-Lauer-Preis 2014 (Akademie der Wissenschaften und der Literatur, Mainz): Prize for an outstanding, original PhD dissertation in the field of mountain geography.

Research projects conducted as PI or Co-I

>1M € of external funding secured over the past 4 years

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| 2021–2024 | PROVIDE – Paris Agreement Overshooting – Reversibility, Climate Impacts and Adaptation Needs (H2020, 230k€). Co-I (total consortium 6M€). |
| 2022–2024 | A future-ready Open Global Glacier Model (OGGM) (DFG, 180k€ , co-PI) |
| 2023–2025 | HYdro power: iMpact on the ELecTricity sector in Austria due to Climate Change in glaciated high alpine areas (HyMELT-CC) (Austrian Climate Research Programme, 50k€). Co-I (total consortium 300k€). |
| 2021–2024 | UNCERTAIN – Certainties and uncertainties in the future surface mass balance of mountain glaciers (ÖAW , 120k€ , together with PhD student Lilian Schuster) |
| 2019–2023 | AgroClim - Huaraz , “Water availability and water demand in the Peruvian Andes” (ÖAW , PI, 443k€) |
| 2022 | UNESCO, IACS and WGMS support for the Randolph Glacier Inventory (PI, 20k€) |
| 2020–2022 | Scaling regional sea-level changes with climate forcings (FWF, replacing previous PI Kristin Richter) |
| 2018–2021 | Modelling glacier length changes in Alps on the base of tree-ring based temperature reconstructions (Universität Innsbruck, 120k€ , Co-I) |
| 2019–2020 | “Glaciers on the Cloud: OGGM-Edu ” (PI, University of Innsbruck, 20k€) |
| 2018–2019 | The Upper Grindelwald Glacier as indicator for Holocene climate variability (Tiroler Wissenschaftsförderung - PI, TWF, 10k€) |

Student supervision

PhD theses (current)

- **Lilian Schuster** (ACINN): Working on the uncertainty of large scale surface mass-balance models (funded via **UNCERTAIN** grant)
- **Patrick Schmitt** (ACINN): Working on the global glacier response under climate targets overshoot scenarios (funded via **PROVIDE** grant)

- **Lorenz Hächner** (Institute of Ecology, co-supervised): Working on the spatio-temporal variability in water availability and demand in the Peruvian Andes (*funded via [AgroClim-Huaraz](#) grant*)
- **Niklas Richter** (ACINN, co-supervised): Atmospheric drivers of glacier change in High Mountain Asia (*funded via [internal grant](#)*)

PhD theses (completed)

- **Julia Eis** (Universität Bremen, co-supervised, 2020): Reconstructing glacier evolution using a flowline model ([link](#))
- **Beatriz Recinos** (Universität Bremen, co-supervised, 2020): Ocean-glacier interaction on the large regional scale ([link](#))
- **Anouk Vlug** (Universität Bremen, co-supervised, 2021): The influence of climate variability on the mass balance of Canadian Arctic land-terminating glaciers, in simulations of the last millennium ([link](#))

Visiting PhD students

- **Rodrigo Aguayo** (Universidad de Concepción, Chile, 2022): working on glacier change and hydrology of Patagonia.
- **Li Fei** (Institute of Tibetan Plateau Research, China, 2020-2021): working on ice volume estimates in High Mountain Asia

24 completed master and bachelor theses. For a full list, visit [my personal website](#).

Contributions to open source software and open data

OGGM	Open-source global glacier evolution modelling framework (oggm.org). In active development since 2016, used by several research groups worldwide and in more than 25 publications, 3 completed and 8 ongoing PhD projects. <i>Project leader</i> .
OGGM-Edu	Educational platform about glaciers based on the OGGM model (edu.oggm.org). Interactive applications, open-source graphics and computational notebooks applicable for teaching at the university level and for workshops. <i>Project leader</i> .
xarray	Array manipulation software (xarray.pydata.org) very commonly used in all fields of geosciences. <i>Core developer since 2015</i> .
saalem	Map visualization and WRF model analysis software based on xarray (saalem.readthedocs.io). <i>Main developer</i> .
HAR	High Asia Refined analysis (HAR), openly accessible high-resolution climate dataset for the Tibetan Plateau and adjacent regions, which has facilitated an estimated several dozens of peer-reviewed publications. <i>Main developer</i> .
RGItools	Suite of scripting tools and data accompanying the production process of the Randolph Glacier Inventory (RGI). Topography data (RGI-TOPO), data processing chain (RGI-scripts), and more. <i>Project leader</i> .

Administration and leadership

- Co-Chair of the IACS working group: **Randolph Glacier Inventory (RGI) and its role in future glacier monitoring and GLIMS** (2019–2023)
- Deputy chair (2017-2021) then chair (2021-2023) of the Innsbruck Doctoral College “**Mountain Climate and Environment**”
- Chair of the “working group on IT and software infrastructure” at **ACINN**
- Current research group in Innsbruck: 2 PostDocs, 4 PhD students, 5 Master students.
- PI or Co-I of 6 active research projects.

Other activities & services to the community

- Member of the CLIC working group: **Glacier Model Intercomparison Project** (since 2018)
- Member of the IACS working group: **Glacier ice thickness estimation** (2014–2019)
- Scientific editor: **Geoscientific Model Development** (EGU Journal, since 2020)
- Session convener **Observing and modelling glaciers at regional to global scales** (EGU2020-2022), **Climate modeling in Mountain regions** (IMC2019), **Scientific Committee** at **IMC2022...**
- Vice-president of the non-profit organisation **OGGM e.V.**, promoting science and research in the fields of climate and glaciology and coordinating the development of OGGM.
- Organized 6 OGGM workshops (2016-2022) and the 2019 Alpine Glaciology Meeting (Innsbruck).
- Organized a **week-long training on glacier modelling** in Lahore, Pakistan (2023)
- Reviewer: *J. Climate*, *J. Geophys. Res.*, *Nature*, *Nature CC*, *J. Hydrometeorol.*, *J. Hydrol.*, *The Cryosph.*, *J. Glaciol.*, *Hydrol. Earth Syst. Sci.*, *Earth Syst. Dynam.*, ...
- Member of the **International Glaciological Society**, **European Geosciences Union**, **International Association of Cryospheric Sciences**, **Météorologie et Climat**, **Österreichische Gesellschaft für Meteorologie**.

Teaching

Current teaching contribution: 8 hours per week (240 hours per year). All classes developed alone.

- **Physics of the climate system:** **advanced course in physical climatology** for graduate students (winter semester, 3hrs). Lecture practicals **available online**.
- **The cryosphere in the climate system:** **advanced course in glaciology** for graduate students (summer semester, 3hrs shared with others).
- **Introduction to climatology:** **entry level course in climatology** for undergraduate students (winter semester, 2hrs shared with others).
- **Introduction to programming for atmospheric scientists:** **bachelor level course in programming** for graduate students (summer semester, 3hrs). Lecture notes **available online**.
- **Scientific programming:** **master level course in programming** for graduate students (winter semester, 3hrs). Lecture notes **available online**.
- **Advanced scientific programming:** **advanced course in programming** for graduate students (summer semester, 2hrs). Lecture notes **available online**.

For a full list of past classes and links to annual student evaluations, visit **my personal website**.

List of publications

49 peer-reviewed publications, h-index 27 (google scholar May 2023)

Publications written by a student under my supervision are indicated with (*), and my 10 most relevant publications are indicated with (#)

Submitted / in review

1. Klein, C., Potter, E. R., Zauner, C., Gurgiser, W., Cruz Encarnación, R., Cochachin Rapre, A., and **Maussion, F.**: *Farmers' first rain: investigating 'pushpa' characteristics in the Peruvian Andes*, Environmental Research Communications, in press.
2. *Schuster, L., Rounce, D., **Maussion, F.**: *Glacier projections sensitivity to temperature-index model choices and calibration strategies*, Annals of Glaciol., in press. [read the preprint](#).

Peer-reviewed

1. *Malles, J., **Maussion, F.**, Ultee, L., Kochtitzky, W., Copland, L. and Marzeion, B.: *Exploring the impact of a frontal ablation parameterization on projected 21st-century mass change for Northern Hemisphere glaciers*, J. Glaciol., 1–16, doi:[10.1017/jog.2023.19](#), 2023.
2. Recinos, B., **Maussion, F.** and Marzeion, B.: *Advances in data availability to constrain and evaluate frontal ablation of ice-dynamical models of Greenland's tidewater peripheral glaciers*, Ann. Glaciol., 1–7, doi:[10.1017/aog.2023.11](#), 2023.
3. # Rounce, D. R., Hock, R., **Maussion, F.**, Hugonnet, R., Kochtitzky, W., Huss, M., Berthier, E., Brinkerhoff, D., Compagno, L., Copland, L., Farinotti, D., Menounos, B. and McNabb, R. W.: *Global glacier change in the 21st century: Every increase in temperature matters*, Science (80)., 379(6627), 78–83, doi:[10.1126/science.abo1324](#), 2023.
4. Hock, R., **Maussion, F.**, Marzeion, B. and Nowicki, S.: *What is the global glacier ice volume outside the ice sheets?*, J. Glaciol., 69(273), 204–210, doi:[10.1017/jog.2023.1](#), 2023.
5. Klein, C., Hänchen, L., Potter, E. R., Junquas, C., Harris, B. L. and **Maussion, F.**: *Untangling the importance of dynamic and thermodynamic drivers for wet and dry spells across the Tropical Andes*, Environ. Res. Lett., 18(3), 034002, doi:[10.1088/1748-9326/acb72b](#), 2023.
6. Windnagel, A., Hock, R., **Maussion, F.**, Paul, F., Rastner, P., Raup, B. and Zemp, M.: *Which glaciers are the largest in the world?*, J. Glaciol., 69(274), 301–310, doi:[10.1017/jog.2022.61](#), 2023.
7. Gangadharan, N., Goosse, H., Parkes, D., Goelzer, H., **Maussion, F.** and Marzeion, B.: *Process-based estimate of global-mean sea-level changes in the Common Era*, Earth Syst. Dyn., 13(4), 1417–1435, doi:[10.5194/esd-13-1417-2022](#), 2022.
8. *Li, F., **Maussion, F.**, Wu, G., Chen, W., Yu, Z., Li, Y. and Liu, G.: *Influence of glacier inventories on ice thickness estimates and future glacier change projections in the Tian Shan range, Central Asia*, J. Glaciol., 1–15, doi:[10.1017/jog.2022.60](#), 2022.
9. *Hänchen, L., Klein, C., **Maussion, F.**, Gurgiser, W., Calanca, P. and Wohlfahrt, G.: *Widespread greening suggests increased dry-season plant water availability in the Rio Santa valley, Peruvian Andes*, Earth Syst. Dyn., 13(1), 595–611, doi:[10.5194/esd-13-595-2022](#), 2022.
10. # Furian, W., **Maussion, F.** and Schneider, C.: *Projected 21st-Century Glacial Lake Evolution in High Mountain Asia*, Front. Earth Sci., 10, doi:[10.3389/feart.2022.821798](#), 2022.
11. Azam, M. F., Kargel, J. S., Shea, J. M., Nepal, S., Haritashya, U. K., Srivastava, S., **Maussion, F.**, Qazi, N., Chevallier, P., Dimri, A. P., Kulkarni, A. V., Cogley, J. G. and Bahuguna, I.: *Glacio-*

hydrology of the Himalaya-Karakoram, Science (80-.), 373(6557), eabf3668, doi:[10.1126/science.abf3668](https://doi.org/10.1126/science.abf3668), 2021.

12. Edwards, T. L., Nowicki, S., Marzeion, B., Hock, R., Goelzer, H., Seroussi, H., Jourdain, N. C., Slater, D. A., Turner, F. E., Smith, C. J., McKenna, C. M., Simon, E., Abe-Ouchi, A., Gregory, J. M., Larour, E., Lipscomb, W. H., Payne, A. J., Shepherd, A., Agosta, C., Alexander, P., Albrecht, T., Anderson, B., Asay-Davis, X., Aschwanden, A., Barthel, A., Bliss, A., Calov, R., Chambers, C., Champollion, N., Choi, Y., Cullather, R., Cuzzone, J., Dumas, C., Felikson, D., Fettweis, X., Fujita, K., Galton-Fenzi, B. K., Gladstone, R., Golledge, N. R., Greve, R., Hattermann, T., Hoffman, M. J., Humbert, A., Huss, M., Huybrechts, P., Immerzeel, W., Kleiner, T., Kraaijenbrink, P., Le clec'h, S., Lee, V., Leguy, G. R., Little, C. M., Lowry, D. P., Malles, J.-H., Martin, D. F., **Maussion, F.**, Morlighem, M., O'Neill, J. F., Nias, I., Pattyn, F., Pelle, T., Price, S. F., Quiquet, A., Radić, V., Reese, R., Rounce, D. R., Rückamp, M., Sakai, A., Shafer, C., Schlegel, N.-J., Shannon, S., Smith, R. S., Straneo, F., Sun, S., Tarasov, L., Trusel, L. D., Van Breedam, J., van de Wal, R., van den Broeke, M., Winkelmann, R., Zekollari, H., Zhao, C., Zhang, T. and Zwinger, T.: *Projected land ice contributions to twenty-first-century sea level rise*, Nature, 593(7857), 74–82, doi:[10.1038/s41586-021-03302-y](https://doi.org/10.1038/s41586-021-03302-y), 2021.
13. *Eis, J., van der Laan, L., **Maussion, F.** and Marzeion, B.: *Reconstruction of Past Glacier Changes with an Ice-Flow Glacier Model: Proof of Concept and Validation*, Front. Earth Sci., 9(March), 1–16, doi:[10.3389/feart.2021.595755](https://doi.org/10.3389/feart.2021.595755), 2021.
14. Rounce, D. R., Hock, R., McNabb, R. W., Millan, R., Sommer, C., Braun, M. H., Malz, P., **Maussion, F.**, Mouginot, J., Seehaus, T. C. and Shean, D. E.: *Distributed global debris thickness estimates reveal debris significantly impacts glacier mass balance*, Geophys. Res. Lett., doi:[10.1029/2020GL091311](https://doi.org/10.1029/2020GL091311), 2021.
15. # *Recinos, B., **Maussion, F.**, Noël, B., Möller, M. and Marzeion, B.: *Calibration of a frontal ablation parameterisation applied to Greenland's peripheral calving glaciers*, J. Glaciol., 1–13, doi:[10.1017/jog.2021.63](https://doi.org/10.1017/jog.2021.63), 2021.
16. *Schuster, L., **Maussion, F.**, Langhamer, L. and Moseley, G. E.: *Lagrangian detection of precipitation moisture sources for an arid region in northeast Greenland: relations to the North Atlantic Oscillation, sea ice cover, and temporal trends from 1979 to 2017*, Weather Clim. Dyn., 2(1), 1–17, doi:[10.5194/wcd-2-1-2021](https://doi.org/10.5194/wcd-2-1-2021), 2021.
17. Marzeion, B., Hock, R., Anderson, B., Bliss, A., Champollion, N., Fujita, K., Huss, M., Immerzeel, W., Kraaijenbrink, P., Malles, J., **Maussion, F.**, Radić, V., Rounce, D. R., Sakai, A., Shannon, S., Wal, R. and Zekollari, H.: *Partitioning the Uncertainty of Ensemble Projections of Global Glacier Mass Change*, Earth's Futur., 8(7), doi:[10.1029/2019ef001470](https://doi.org/10.1029/2019ef001470), 2020.
18. Pelto, B. M., **Maussion, F.**, Menounos, B., Radić, V. and Zeuner, M.: *Bias-corrected estimates of glacier thickness in the Columbia River Basin, Canada*, J. Glaciol., 1–13, doi:[10.1017/jog.2020.75](https://doi.org/10.1017/jog.2020.75), 2020.
19. # Zemp, M., Huss, M., Thibert, E., Eckert, N., McNabb, R., Huber, J., Barandun, M., Machguth, H., Nussbaumer, S. U., Gärtner-Roer, I., Thomson, L., Paul, F., **Maussion, F.**, Kutuzov, S. and Cogley, J. G.: *Global glacier mass changes and their contributions to sea-level rise from 1961 to 2016*, Nature, 568(7752), 382–386, doi:[10.1038/s41586-019-1071-0](https://doi.org/10.1038/s41586-019-1071-0), 2019.
20. *Recinos, B., **Maussion, F.**, Rothenpieler, T. and Marzeion, B.: *Impact of frontal ablation on the ice thickness estimation of marine-terminating glaciers in Alaska*, Cryosph., 13(10), 2657–2672, doi:[10.5194/tc-13-2657-2019](https://doi.org/10.5194/tc-13-2657-2019), 2019.
21. # **Maussion, F.**, Butenko, A., Champollion, N., Dusch, M., Eis, J., Fourteau, K., Gregor, P.,

- Jarosch, A. H., Landmann, J., Oesterle, F., Recinos, B., Rothenpieler, T., Vlug, A., Wild, C. T. and Marzeion, B.: *The Open Global Glacier Model (OGGM) v1.1*, Geosci. Model Dev., 12(3), 909–931, doi:[10.5194/gmd-12-909-2019](https://doi.org/10.5194/gmd-12-909-2019), 2019.
22. Horak, J., Hofer, M., **Maussion, F.**, Gutmann, E., Gohm, A. and Rotach, M. W.: *Assessing the added value of the Intermediate Complexity Atmospheric Research (ICAR) model for precipitation in complex topography*, Hydrol. Earth Syst. Sci., 23(6), 2715–2734, doi:[10.5194/hess-23-2715-2019](https://doi.org/10.5194/hess-23-2715-2019), 2019.
 23. *Eis, J., **Maussion, F.** and Marzeion, B.: *Initialization of a global glacier model based on present-day glacier geometry and past climate information: an ensemble approach*, Cryosph., 13(12), 3317–3335, doi:[10.5194/tc-13-3317-2019](https://doi.org/10.5194/tc-13-3317-2019), 2019.
 24. *Zolles, T., **Maussion, F.**, Galos, S. P., Gurgiser, W. and Nicholson, L.: *Robust uncertainty assessment of the spatio-temporal transferability of glacier mass and energy balance models*, Cryosph., 13(2), 469–489, doi:[10.5194/tc-13-469-2019](https://doi.org/10.5194/tc-13-469-2019), 2019.
 25. # Farinotti, D., Huss, M., Fürst, J. J., Landmann, J., Machguth, H., **Maussion, F.** and Pandit, A.: *A consensus estimate for the ice thickness distribution of all glaciers on Earth*, Nat. Geosci., 12(3), 168–173, doi:[10.1038/s41561-019-0300-3](https://doi.org/10.1038/s41561-019-0300-3), 2019.
 26. Strasser, U., Marke, T., Braun, L., Escher-Vetter, H., Juen, I., Kuhn, M., **Maussion, F.**, Mayer, C., Nicholson, L., Niedertscheider, K., Sailer, R., Stötter, J., Weber, M. and Kaser, G.: *The Rofental: a high Alpine research basin (1890–3770 m a.s.l.) in the Ötztal Alps (Austria) with over 150 years of hydrometeorological and glaciological observations*, Earth Syst. Sci. Data, 10(1), 151–171, doi:[10.5194/essd-10-151-2018](https://doi.org/10.5194/essd-10-151-2018), 2018.
 27. Goosse, H., Barriat, P.-Y., Dalaiden, Q., Klein, F., Marzeion, B., **Maussion, F.**, Pelucchi, P. and Vlug, A.: *Testing the consistency between changes in simulated climate and Alpine glacier length over the past millennium*, Clim. Past, 14(8), 1119–1133, doi:[10.5194/cp-14-1119-2018](https://doi.org/10.5194/cp-14-1119-2018), 2018.
 28. # Marzeion, B., Kaser, G., **Maussion, F.** and Champollion, N.: *Limited influence of climate change mitigation on short-term glacier mass loss*, Nat. Clim. Chang., 8, doi:[10.1038/s41558-018-0093-1](https://doi.org/10.1038/s41558-018-0093-1), 2018.
 29. Mölg, T., **Maussion, F.**, Collier, E., Chiang, J. C. H. and Scherer, D.: *Prominent mid-latitude circulation signature in High Asia's surface climate during monsoon*, J. Geophys. Res. Atmos., 1–11, doi:[10.1002/2017JD027414](https://doi.org/10.1002/2017JD027414), 2017.
 30. Galos, S. P., Klug, C., **Maussion, F.**, Covi, F., Nicholson, L., Rieg, L., Gurgiser, W., Mölg, T. and Kaser, G.: *Reanalysis of a 10-year record (2004–2013) of seasonal mass balances at Langenferner/Vedretta Lunga, Ortler Alps, Italy*, Cryosph., 11(3), 1417–1439, doi:[10.5194/tc-11-1417-2017](https://doi.org/10.5194/tc-11-1417-2017), 2017.
 31. Farinotti, D., Brinkerhoff, D. J., Clarke, G. K. C., Fürst, J. J., Frey, H., Gantayat, P., Gillet-Chaulet, F., Girard, C., Huss, M., Leclercq, P. W., Linsbauer, A., Machguth, H., Martin, C., **Maussion, F.**, Morlighem, M., Mosbeux, C., Pandit, A., Portmann, A., Rabatel, A., Ramsankaran, R., Reerink, T. J., Sanchez, O., Stentoft, P. A., Singh Kumari, S., van Pelt, W. J. J., Anderson, B., Benham, T., Binder, D., Dowdeswell, J. A., Fischer, A., Helfricht, K., Kutuzov, S., Lavrentiev, I., McNabb, R., Gudmundsson, G. H., Li, H. and Andreassen, L. M.: *How accurate are estimates of glacier ice thickness? Results from ITMIX, the Ice Thickness Models Intercomparison eXperiment*, Cryosph., 11(2), 949–970, doi:[10.5194/tc-11-949-2017](https://doi.org/10.5194/tc-11-949-2017), 2017.
 32. Spiess, M., Schneider, C. and **Maussion, F.**: *MODIS-derived interannual variability of the equilibrium line altitude across the Tibetan Plateau*, Ann. Glaciol., 57(71), 140–154, doi:[10.3189/2016AoG71A014](https://doi.org/10.3189/2016AoG71A014), 2016.

33. Otto, M., Höpfner, C., Curio, J., **Maussion, F.** and Scherer, D.: *Assessing vegetation response to precipitation in northwest Morocco during the last decade: an application of MODIS NDVI and high resolution reanalysis data*, Theor. Appl. Climatol., 123(1–2), 23–41, doi:[10.1007/s00704-014-1344-3](https://doi.org/10.1007/s00704-014-1344-3), 2016.
34. Biskop, S., **Maussion, F.**, Krause, P. and Fink, M.: *Differences in the water-balance components of four lakes in the southern-central Tibetan Plateau*, Hydrol. Earth Syst. Sci, 20, 209–225, doi:[10.5194/hess-20-209-2016](https://doi.org/10.5194/hess-20-209-2016), 2016.
35. Zhu, M., Yao, T., Yang, W., **Maussion, F.**, Huintjes, E. and Li, S.: *Energy- and mass-balance comparison between Zhadang and Parlung No. 4 glaciers on the Tibetan Plateau*, J. Glaciol., 61(227), 595–607, doi:[10.3189/2015JoG14J206](https://doi.org/10.3189/2015JoG14J206), 2015.
36. Spiess, M., **Maussion, F.**, Möller, M., Scherer, D. and Schneider, C.: *Modis derived equilibrium line altitude estimates for purogangri ice cap, tibetan plateau, and their relation to climatic predictors (2001–2012)*, Geogr. Ann. Ser. A, Phys. Geogr., 97(3), 599–614, doi:[10.1111/geoa.12102](https://doi.org/10.1111/geoa.12102), 2015.
37. Huintjes, E., Sauter, T., Schröter, B., **Maussion, F.**, Yang, W., Kropáček, J., Buchroithner, M., Scherer, D., Kang, S. and Schneider, C.: *Evaluation of a Coupled Snow and Energy Balance Model for Zhadang Glacier, Tibetan Plateau, Using Glaciological Measurements and Time-Lapse Photography*, Arctic, Antarct. Alp. Res., 47(3), 573–590, doi:[10.1657/AAAR0014-073](https://doi.org/10.1657/AAAR0014-073), 2015.
38. Curio, J., **Maussion, F.** and Scherer, D.: *A 12-year high-resolution climatology of atmospheric water transport over the Tibetan Plateau*, Earth Syst. Dyn., 6(1), 109–124, doi:[10.5194/esd-6-109-2015](https://doi.org/10.5194/esd-6-109-2015), 2015.
39. Collier, E., **Maussion, F.**, Nicholson, L. I., Mölg, T., Immerzeel, W. W. and Bush, a. B. G.: *Impact of debris cover on glacier ablation and atmosphere–glacier feedbacks in the Karakoram*, Cryosph., 9(4), 1617–1632, doi:[10.5194/tc-9-1617-2015](https://doi.org/10.5194/tc-9-1617-2015), 2015.
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43. Dietze, E., **Maussion, F.**, Ahlborn, M., Diekmann, B., Hartmann, K., Henkel, K., Kasper, T., Lockot, G., Opitz, S. and Haberzettl, T.: *Sediment transport processes across the Tibetan Plateau inferred from robust grain-size end members in lake sediments*, Clim. Past, 10(1), 91–106, doi:[10.5194/cp-10-91-2014](https://doi.org/10.5194/cp-10-91-2014), 2014.
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47. Mölg, T., **Maussion, F.**, Yang, W. and Scherer, D.: *The footprint of Asian monsoon dynamics in the mass and energy balance of a Tibetan glacier*, Cryosph., 6(6), 1445–1461, doi:[10.5194/tc-6-1445-2012](https://doi.org/10.5194/tc-6-1445-2012), 2012.
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49. Bolch, T., Yao, T., Kang, S., Buchroithner, M. F., Scherer, D., **Maussion, F.**, Huintjes, E. and Schneider, C.: *A glacier inventory for the western Nyainqentanglha Range and the Nam Co Basin, Tibet, and glacier changes 1976-2009*, Cryosph., 4(3), 419–433, doi:[10.5194/tc-4-419-2010](https://doi.org/10.5194/tc-4-419-2010), 2010.

Field work

- 2009–2013: 7 one-month long campaigns to Zhadang Glacier (Tibet), 4 as expedition leader.
- 2012: Austfonna, Svalbard (3 weeks)
- 2014–2022: regular participation to mass-balance monitoring of alpine glaciers
- 2019: Huaraz, Peru (2 weeks), as expedition leader.

Invited presentations (selection)

- 2021 (AGU New Orleans): *Building software documentation for community engagement: lessons learned with OGGM*.
- 2020 (IARPC Collaborations): *OGGM - A modern, modular and extensible framework for large scale glacier modeling*
- 2020 (Austrian Society for Snow and Avalanches): *What open-source can do for you, and what you can do for open-source*.
- 2019 (IUGG Montreal): *Glaciology on the Cloud - Research and Education in your Web Browser*.
- 2016 (Universität Zürich): *Towards an Open Global Glacier Model including ice dynamics*.
- 2014 (AGU San Francisco): *Using Mesoscale Atmospheric Models for Glacio-Hydrological Studies at the Catchment Scale: Examples from High Asia and Perspectives for Future Applications*.

Press (selection)

- **Radio interview** for the Swiss scientific podcast CQFD (in French; [mp3 download](#))
- **La Croix: Combien reste-il de glace dans les glaciers du monde?** (in French)
- **Carbon Brief: Global warming to date could ‘obliterate’ a third of glacier ice**
- **Phys.org: Glacier mass loss passes the point of no return, researchers report**
- **Süddeutsche Zeitung: Weniger Schmelzwasser aus den Bergen** (in German)
- **EOS: Glacial Census Reveals Ice Thicknesses Around the World**
- **TT: Weltweite Gletschermasse laut Studie bislang deutlich überschätzt** (in German)
- **ORF.at: Weltweit weniger Gletschereis als gedacht** (in German)
- **Krone.at: Gletschereis lässt Meeresspiegel ansteigen** (in German)
- **TT: Einhaltung der Klimaziele bremst Anstieg des Meeresspiegels** (in German)
- **ORF.at: 1,5-Grad-Ziel halbiert Meeresspiegelanstieg** (in German)
- **Der Standard: Gefährliche Damnbrüche im Hochgebirge nehmen zu**, also on **ORF**

- **UIBK: Negativrekord: Gletscherbilanz rutscht immer früher ins Minus** (in German)
- **ORF Science: Modell zeigt Abschied der Eisriesen** and the associated **podcast** (in German)

Other

- **Languages:** French (first language), German (second language), English (full professional proficiency), Spanish (good).
- **Interests:** music (drums and piano), outdoors, photography.