

Gabriela Schaepman-Strub

Curriculum Vitae

1. Personal information

Name	Gabriela Schaepman-Strub, Prof. Dr. Sc. nat.
Affiliation	Research Group 'Spatial Ecology and Remote Sensing' Dept. of Evolutionary Biology and Environmental Studies University of Zurich, Winterthurerstrasse 190, CH- 8057 Zurich
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2. Education

2005	PhD (Dr. sc. nat.), Faculty of Science, University of Zurich, CH. <i>Spectrodirectional reflectance analysis and definition for the estimation of vegetation variables</i>
1999	Diploma in Geography, Biology (minor), European Ethnology (minor), University of Zurich, CH. <i>Spektroradiometrische Untersuchungen an Wiesengesellschaften</i>

3. Employment history

2019 –	Associate professor for Earth System Science, University of Zurich, CH.
2014	Visiting scientist, Climate Sciences (6 months), Caltech/ NASA JPL, USA.
2009 – 2019	Research scientist and research group leader, Department of Evolutionary Biology and Environmental Studies, University of Zurich, CH.
2007 – 2009	Research scientist, Department of Environmental Sciences, Wageningen University, NL.
2005 – 2007	Postdoctoral research fellow (External postdoctoral fellowship, European Space Agency), Department of Environmental Sciences, Wageningen University, NL.
2005	Postdoctoral research fellow (SNSF fellowship for prospective researchers), Department of Environmental Sciences, Wageningen University, NL.
2003 – 2004	Visiting PhD student, Department of Environmental Sciences, Wageningen University, NL.
2001	Research scholar (7 months), Department of Geography, Boston University, USA.
1999 – 2004	PhD student and research assistant, Department of Geography, University of Zurich, CH.
1997 – 1999	Teaching assistant in Remote Sensing, Department of Geography, University of Zurich, CH.

4. Grants and projects (amounts in brackets indicate total project funding)

2020	Temporal variability and habitat compartmentalization of methanotrophic microbes in Arctic permafrost ponds, URPP GCB, Univ. Zurich. Co-PI.	ca. CHF	240'000
2020	Global Change and Biodiversity, World Biodiversity Forum (private donation, UZH Foundation). PI.	CHF	200'000
2020	CHARTER – Drivers and feedbacks of changes in Arctic terrestrial biodiversity, EC Horizon2020. Co-I.	EUR	113'000
2018	Arctic biodiversity and ecosystem functioning – AVA, IASC TWG. PI.	EUR	10'000
2018	Arctic tundra surface energy budget - assessing the status and informing predictions, SNSF. PI.	CHF	610'000

2017	Feedbacks between biodiversity and climate through plant traits and light interaction, URPP GCB, Univ. Zurich. PI.	ca. CHF 240'000
2017	Siberian test site coordination, URPP GCB, Univ. Zurich. PI.	ca. CHF 40'000
2016	Global change drivers and ecosystem changes on Aldabra Atoll, a Unesco world heritage site (innovation fund project), URPP GCB, Univ. Zurich. PI.	CHF 55'000
2015	Towards an improved understanding of the global energy balance: temporal variation of solar radiation in the climate system, SNSF. Col.	(CHF 184'507)
2013	Cross-scale quantification of vegetation–atmosphere interactions and biodiversity change, URPP GCB, Univ. Zurich. PI.	CHF 427'829
2013	Assessing uncertainty in global change-biodiversity research using Bayesian modelling, URPP GCB, Univ. Zurich. Col.	(CHF 304'755)
2013	Siberian test site coordination. URPP GCB, Univ. Zurich. PI.	ca. CHF 40'000
2012	Towards an improved understanding of the tundra energy balance - dependence of radiative transfer on vegetation type, SNSF. PI.	CHF 206'867
2011	Towards an improved understanding of the global energy balance: absorption of solar radiation, SNSF. Col.	(CHF 162'482)
2011	Giants of Aldabra (Zurich-Aldabra Research Platform ZARP). Forschungskredit, Faculty of Sciences, Univ. Zurich. Col	(CHF 95'000)
2009	Young academics in spatial ecology, peer mentoring program, Faculty of Sciences, Univ. Zurich. PI.	CHF 19'000
2007	Long-term observation of soil carbon and methane fluxes in Siberian Tundra, Dutch Science Foundation, Dutch-Russian Cooperation. Collaborator.	
2006	External research fellowship. European Space Agency. PI.	EUR 62'000
2005	Improved prediction of vegetation development by assimilation of advanced remote sensing products into an ecosystem model, SNSF fellowship for prospective researchers (PBZH2-108485). PI.	CHF 39'335

5. Prizes, awards, fellowships

2020	Honoured as 'Teacher of the Hour', UZH, spring semester 2020 https://www.teaching.uzh.ch/de/innovation/teacher-of-the-hour.html
2016	Parliament of the Republic of Sacha (Yakutia), silver medal for climate and biodiversity research, http://www.mnf.uzh.ch/de/news/Republic-of-Sacha-honors-ecologist-Dr.-Gabriela-Schaepman-Strub.html .
2016	Univ. of Zurich Research Priority Program Global Change and Biodiversity, innovation grant.
2005	European Space Agency external research fellowship.
2005	SNSF fellowship for prospective researchers.

6. Publications

Basic publication metrics

- Citations: 3628 (Web of Science), 5868 (Google Scholar)
- h-index: 23 (Web of Science), 29 (Google Scholar)
- Average citations per item: 52.8 (Web of Science)
- 5 'top 1% cited articles' in the academic field Environment/Ecology
- 1 'classic paper' in Remote Sensing (Google Scholar)

The publication output is based on reduced working time due to extended maternity leave (60% full time equivalent between 2002–2014, 70% full time equivalent between 2015–2018, 100% full time equivalent since April 2019).

ResearcherID <http://www.researcherid.com/rid/D-8785-2011>

Google Scholar <https://scholar.google.com/citations?hl=en&user=gcfHyDsAAAAJ>

* Articles by postdocs, PhD, MSc students (co-) supervised by G. Schaepman-Strub.

Manuscripts in preparation and review

- 1 *Constance, A., Haverkamp, P.J., Bunbury, N., **Schaepman-Strub, G.** (in revision) Change in extent of protected mangrove forests and relation to wave power on Aldabra Atoll, *Global Ecology and Conservation*.
- 2 Ghielmetti, G. et al., (in preparation) An intercomparison experiment of leaf optical properties measurements.
- 3 *Chako, M., Goerens, A., **Schaepman-Strub, G.** (in review) Threatened Arctic vegetation – current and future conservation and knowledge gaps.
- 4 *Haverkamp, P., Byskatova, I., Germogenov, N., **Schaepman-Strub, G.** (in review) Extreme flooding in the Arctic tundra threatens nesting habitat of critically endangered Siberian crane.
- 5 *Plekhanova, E., Grysko, R., Oehri, J., Karsanaev, S., Maximov, T., **Schaepman-Strub, G.** (in review) TRainEx – Tundra Rainfall Experiment.

Peer-reviewed articles

- 1 Kropp, H, Loranty, MM, Natali, SM, Kholodov, AL, Rocha, AV, Myers-Smith, I, Abbot, BW, Abermann, J, Blanc-Betes, E, Blok, D, Blume-Werry, G, Boike, J, Breen, AL, Cahoon, SMP, Christiansen, CT, Douglas, TA, , Epstein, HE, Frost, GV, Goeckede, M, Hoyer, TT, Mamet, SD, O'Donnell, JA, Olefeldt, D, Phoenix, GK, Salmon, VG, Sannel, ABK, Smith, SL, Sonnentag, O, Vaughn, LS, Williams, M, Elberling, B, Gough, L, Hjort, J, Lafleur, PM, Euskirchen, ES, Heijmans, MPD, Humphreys, ER, Iwata, H, Jones, BM, Jorgenson, MT, Grunberg, I, Kim, Y, Laundre, J, Mauritz, M, Michelsen, A, **Schaepman-Strub, G.**, Tape, KD, Ueyama, M, Lee, BY, Langley, K, Lund, M (2021) Shallow soils are warmer under trees and tall shrubs across Arctic and Boreal ecosystems, *Environmental Research Letters*, 16, 015001.
- 2 *Plekhanova, E., Gastellu-Etchegory, J.-P., Niklaus, P.A., **Schaepman-Strub, G.** (2021) How does leaf functional diversity affect the light environment in forest canopies? An in-silico biodiversity experiment, *Ecological Modelling*, 440, 109394
- 3 *Cerutti, J.M.B., Burt, A.J., Haupt, P., Bunbury, N., Mumby, P.J., **Schaepman-Strub, G.** (2020) Impacts of the 2014-2017 global bleaching event on a protected remote atoll in the Western Indian Ocean. *Coral Reefs*, 39(1), 15-26.
- 4 *Iturrate-Garcia, M., Heijmans, M.M.P.D., Cornelissen, J.H.C., Schweingruber, F.H., Niklaus, P.A., **Schaepman-Strub, G.** (2020) Plant trait response of tundra shrubs to permafrost thaw and nutrient addition, *Biogeosciences*, 17(20), 4981-4998.
- 5 Kim, J-S., Kug, J-S, Jeong, S-J, Park, H., **Schaepman-Strub, G.** (2020) Extensive fires in southeastern Siberian permafrost related to preceding Arctic Oscillation. *Science Advances*, 6(2), eaax3308.

- 6 Le Moigne, A., Bartosiewicz, M., **Schaepman-Strub, G.**, Abiven, S., Pernthaler, J. (2020) The biogeochemical variability of Arctic thermokarst ponds is reflected by stochastic and niche-driven microbial community assembly processes, *Environmental Microbiology*, 22(11), 4847-4862.
- 7 Myers-Smith, I., Kerby, J., Pheonix, G., Bjerke, J., Epstein, H., Assmann, J., John, C., Hayles, L., Angers-Blodin, S., Beck, P., Berner, L., Bhatt, U., Bjorkman, A., Blauw, L.,.....**Schaepman-Strub, G.**, et al., (2020) Complexity revealed in the greening of the Arctic. *Nature Climate Change*, 10(2), 106-117.
- 8 *Oehri, J., Schmid, B., **Schaepman-Strub, G.**, Niklaus, P. (2020) Terrestrial land-cover type richness is positively linked to landscape-level functioning. *Nature Communications*, 11(1), 1-10.
- 9 Shimizu-Inatsugi, R., Milosavljevic, S., Shimizu, K.K., **Schaepman-Strub, G.**, Tanoi, K., Sato, Y. (2020) Metal accumulation and its effect on leaf herbivory in an allopolyploid species *Arabidopsis kamchatica* inherited from a diploid hyperaccumulator *A. halleri*, *Plant Species Biology*.
- 10 *Stünzi, S., **Schaepman-Strub, G.** (2020) Vegetation Trajectories and Shortwave Radiative Forcing following Boreal Forest Disturbance in Eastern Siberia. *Journal of Geophysical Research: Biogeosciences*, 125(6).
- 11 Thomas, H.J.D., Bjorkman, A.D., Myers-Smith, I.H., Elmendorf, S.C., Kattge, J., Diaz, S., Vellend, M., Blok, D., Cornelissen, H., Forbes, B.C., Henry, G., Hollister, R., Normand, S., Prevéy, J.S., Rixen, C., **Schaepman-Strub, G.**, Wilmking, M., Wipf, S., Beck, P.S.A., Georges, D., Goetz, S., Guay, K., Rüger, N., Soudzilovskaia, N., Spasojevic, M., Alatalo, J., Anadon-Rosell, A., Angers-Blondin, S., Berner, L., Bjork, R., Buchwal, A., Buras, A., Carbognani, M., Christie, K., Collier, L.S., Elberling, B., Eskelinen, A., Frei, E.R., Grogan, P., Hallinger, M., Hudson, J., Hülber, K., Iturrate- Garcia, M., Iversen, C., Jaroszynska, F., Kaarlejarvi, E., Kulonen, A., Lamarque, L., Little, C., Michelsen, A., Milbau, A., Nabe-Nielsen, J., Schøler Nielsen, S., Ninot, J.M., Olofsson, J., Onipchenko, V., Petraglia, A., Rumpf, S.B., Speed, J.D.M., Tape, K., Te Beest, M., Tomaselli, M., Treier, U., Tremblay, M., Venn, S., Vowles, T., Weijers, S., Wookey, P.A., Zamin, T., Bahn, M., Blonder, B., Bond-Lamberty, B., Campetella, G., Cerabolini, B.E.L., Chapin III, F.S., Dainese, M., Grau, O., Green, W., Jansen, S., Kleyer, M., Manning, P., Niinemets, Ü, Onoda, Y., Ozinga, W.A., Penuelas, J., Poschlod, P., Sandel, B., Schamp, B., Sheremetev, S., van Bodegom, P., (2020) Global plant trait relationships extend to the climatic extremes of the tundra biome. *Nature Communications*, 11(1), 1-12.
- 12 Fang, H., Baret, F., Plummer, S., **Schaepman-Strub, G.** (2019) An overview of global leaf area index (LAI): Methods, products, validation, and applications. *Reviews of Geophysics*, 57, 739-799.
- 13 *Ksenofontov, S., N. Backhaus, N., **Schaepman-Strub, G.** (2019) 'There are new species': indigenous knowledge of biodiversity changes in Arctic Yakutia. *Polar Geography*, 42, 34-57.
- 14 Raynolds, M.K., Walker, D.A., Balser, A., Bay, C., Campbell, M., Cherosov, M.M., Daniels, F., Bronken Eidesen, P., Ermokhina, K.A., Frost, G.V., Jedrzejek, B.S., Jorgenson, M.T., Kennedy, B.E., Kholod, S.S., Lavrinenko, I.A., Mangnussun, B., Matveyeva, N., Metusalemsson, S., Nilsen, E.T., Olthof, I., Pospelov, I., Pospelova, E., Pouliot, D., Razzhivin, V.Y., **Schaepman-Strub, G.**, Telyatnikov, M.Y., Troaeva, E. (2019) A raster version of the Circumpolar Arctic Vegetation Map (CAVM v2). *Remote Sensing of Environment*, 232.
- 15 Thomas, H., Myers-Smith, I., Bjorkman, A., Elmendorf, S., Blok, D., Cornelissen, H., Forbes, B., Hollister, R., Normand, S., Prevéy, J., Rixen, C., **Schaepman-Strub, G.**, Wilmking, M., Wipf, S., Cornwell, W., Kattge, J., Goetz, S., Guay, K., Alatalo, J., Anadon Rosell, A., Angers-Blondin, S., Berner, L., Björk, R., Buchwal, A., Buras, A., Carbognani, M., Christie, K., Collier, L., Cooper, E., Frei, E., Grogan, P., Hallinger, M., Heijmans, M., Hermanutz, L., Hudson, J., Hülber, K., Iturrate-Garcia, M., Iversen, C., Jaroszynska, F., Johnstone, J., Kaarlejärvi, E., Kulonen, A., Lamarque, L., Levesque, E., Little, C., Michelsen, A., Milbau, A., Nabe-Nielsen, J., Nielsen, S., Ninot, J., Oberbauer, S., Olofsson, J., Onipchenko, V., Petraglia, A., Rumpf, S., Semenchuk, P., Soudzilovskaia, N., Spasojevic, M., Speed, J., Tape, K., Te Beest, M., Tomaselli, M., Trant, A., Treier, U., Venn, S., Vowles, T., Weijers, S., Atkin, O., Bahn, M., Blonder, B., Campetella, G., Cerabolini, B., Chapin III, F. S., Dainese, M., de Vries, F., Díaz, S., Green, W., Jackson, R., Manning, P., Niinemets, Ü, Ozinga, W., Penuelas, J., Reich, P., Schamp, B., Sheremetev, S. (2019) Traditional plant functional groups explain variation in

- economic, but not size-related traits across the tundra biome. *Global Ecology and Biogeography*, <https://doi.org/10.1111/geb.12783>.
- 16 *Walton, R., Baxter, R., Bunbury, N., Hansen, D., Fleischer-Dogley, F., Greenwood, S., **Schaepman-Strub, G.** (2019) In the land of giants: habitat use and preference of the Aldabra giant tortoise on Aldabra atoll. *Biodiversity and Conservation*, 28(12), 3183-3198.
 - 17 Bjorkman, A.D., Myers-Smith, I.H., Elmendorf, S.C., Normand, S., Rüger, N., Beck, P.S.A., Blach-Overgaard, A., Blok, D., Cornelissen, J.H.C., Forbes, B.C., Georges, D., Goetz, S.J., Guay, K.C., Henry, G.H.R., HilleRisLambers, J., Hollister, R.D., Karger, D.N., Kattge, J., Manning, P., Prevéy, J.S., Rixen, C., **Schaepman-Strub, G.**, Thomas, H.J.D., Vellend, M., Wilmking, M., Wipf, S., Carbognani, M., Hermanutz, L., Lévesque, E., Molau, U., Petraglia, A., Soudzilovskaia, N.A., Spasojevic, M.J., Tomaselli, M., Vowles, T., Alatalo, J.M., Alexander, H.D., Anadon-Rosell, A., Angers-Blondin, S., Beest, M.t., Berner, L., Björk, R.G., Buchwal, A., Buras, A., Christie, K., Cooper, E.J., Dullinger, S., Elberling, B., Eskelinen, A., Frei, E.R., Grau, O., Grogan, P., Hallinger, M., Harper, K.A., Heijmans, M.M.P.D., Hudson, J., Hülber, K., Iturrate-Garcia, M., Iversen, C.M., Jaroszynska, F., Johnstone, J.F., Jørgensen, R.H., Kaarlejärvi, E., Klady, R., Kuleza, S., Kulonen, A., Lamarque, L.J., Lantz, T., Little, C.J., Speed, J.D.M., Michelsen, A., Milbau, A., Nabe-Nielsen, J., Nielsen, S.S., Ninot, J.M., Oberbauer, S.F., Olofsson, J., Onipchenko, V.G., Rumpf, S.B., Semenchuk, P., Shetti, R., Collier, L.S., Street, L.E., Suding, K.N., Tape, K.D., Trant, A., Treier, U.A., Tremblay, J.-P., Tremblay, M., Venn, S., Weijers, S., Zamin, T., Boulanger-Lapointe, N., Gould, W.A., Hik, D.S., Hofgaard, A., Jónsdóttir, I.S., Jorgenson, J., Klein, J., Magnusson, B., Tweedie, C., Wookey, P.A., Bahn, M., Blonder, B., van Bodegom, P.M., Bond-Lamberty, B., Campetella, G., Cerabolini, B.E.L., Chapin, F.S., Cornwell, W.K., Craine, J., Dainese, M., de Vries, F.T., Díaz, S., Enquist, B.J., Green, W., Milla, R., Niinemets, Ü., Onoda, Y., Ordoñez, J.C., Ozinga, W.A., Penuelas, J., Poorter, H., Poschlod, P., Reich, P.B., Sandel, B., Schamp, B., Sheremetev, S., Weiher, E. (2018) Plant functional trait change across a warming tundra biome. *Nature*, 562, 57-62.
 - 18 Bjorkman, A.D., Myers-Smith, I.H., Elmendorf, S.C., Normand, S., Thomas, H.J.D., Alatalo, J.M., Alexander, H., Anadon-Rosell, A., Angers-Blondin, S., Bai, Y., Baruah, G., te Beest, M., Berner, L., Björk, R.G., Blok, D., Bruelheide, H., Buchwal, A., Buras, A., Carbognani, M., Christie, K., Collier, L.S., Cooper, E.J., Cornelissen, J.H.C., Dickinson, K.J.M., Dullinger, S., Elberling, B., Eskelinen, A., Forbes, B.C., Frei, E.R., Iturrate-Garcia, M., Good, M.K., Grau, O., Green, P., Greve, M., Grogan, P., Haider, S., Hájek, T., Hallinger, M., Happonen, K., Harper, K.A., Heijmans, M.M.P.D., Henry, G.H.R., Hermanutz, L., Hewitt, R.E., Hollister, R.D., Hudson, J., Hülber, K., Iversen, C.M., Jaroszynska, F., Jiménez-Alfaro, B., Johnstone, J., Jorgensen, R.H., Kaarlejärvi, E., Klady, R., Klimešová, J., Korsten, A., Kuleza, S., Kulonen, A., Lamarque, L.J., Lantz, T., Lavelle, A., Lembrechts, J.J., Lévesque, E., Little, C.J., Luoto, M., Macek, P., Mack, M.C., Mathakutha, R., Michelsen, A., Milbau, A., Molau, U., Morgan, J.W., Mörsdorf, M.A., Nabe-Nielsen, J., Nielsen, S.S., Ninot, J.M., Oberbauer, S.F., Olofsson, J., Onipchenko, V.G., Petraglia, A., Pickering, C., Prevéy, J.S., Rixen, C., Rumpf, S.B., **Schaepman-Strub, G.**, Semenchuk, P., Shetti, R., Soudzilovskaia, N.A., Spasojevic, M.J., Speed, J.D.M., Street, L.E., Suding, K., Tape, K.D., Tomaselli, M., Trant, A., Treier, U.A., Tremblay, J.-P., Tremblay, M., Venn, S., Virkkala, A.-M., Vowles, T., Weijers, S., Wilmking, M., Wipf, S., Zamin, T. (2018) Tundra Trait Team: A database of plant traits spanning the tundra biome. *Global Ecology and Biogeography*, 27, 1402-1411.
 - 19 Falcón, W., Baxter, R.P., Furrer, S., Bauert, M., Hatt, J.-M., **Schaepman-Strub, G.**, Ozgul, A., Bunbury, N., Clauss, M., Hansen, D.M. (2018), Patterns of activity and body temperature of Aldabra giant tortoises in relation to environmental temperature. *Ecology and Evolution*, 8, 2108-2121.
 - 20 *Gerber, F., de Jong, R., Schaepman, M.E., **Schaepman-Strub, G.**, Furrer, R. (2018), Predicting missing values in spatio-temporal remote sensing data. *IEEE Transactions on Geoscience and Remote Sensing*, 56, 2841-2853.
 - 21 Jeong, S.-J., Bloom, A.A., Schimel, D., Sweeney, C., Parazoo, N.C., Medvigy, D., **Schaepman-Strub, G.**, Zheng, C., Schwalm, C.R., Huntzinger, D.H., Michalak, A.M., Miller, C.E. (2018), Accelerating rates of Arctic carbon cycling revealed by long-term atmospheric CO₂ measurements. *Science Advances*, 4 (7).

- 22 *Weber, D., **Schaepman-Strub, G.**, Eckert, K. (2018), Predicting habitat quality of protected dry grasslands using Landsat NDVI phenology. *Ecological Indicators*, 91, 447-460.
- 23 Abiven, S., Altermatt, F., Backhaus, N., Deplazes Zemp, A., Furrer, R., Korf, B., Niklaus, P.A., **Schaepman-Strub, G.**, Shimizu, K., Zuppinger-Dingley, D., Petchey, O., Schaepman, M.E. (2017), Integrative research efforts at the boundary of biodiversity and global change research. *Current Opinion in Environmental Sustainability*, 29, 215-222.
- 24 Hakuba, M. Z., Folini, D., Wild, M., Long, C.N., **Schaepman-Strub, G.**, Stephens, G.L. (2017), Cloud effects on atmospheric solar absorption in light of most recent surface and satellite measurements. *AIP Conference Proceedings*, 1810, 090003.
- 25 *Haverkamp, P., Shekeine, J., de Jong, R., Schaepman, M.E., Turnbull, L.A., Baxter, R., Hansen, D., Bunbury, N., Fleischer-Dogley, F., **Schaepman-Strub, G.** (2017), Giant tortoise habitats under increasing drought conditions on Aldabra Atoll - ecological indicators to monitor rainfall anomalies and related vegetation activity. *Ecological Indicators*, 80, 354-362.
- 26 *Iturrate-Garcia, M., Heijmans, M.M.M.P., Schweingruber, F., Simeon, R., Niklaus, P.A., **Schaepman-Strub, G.** (2017), Shrub growth rate and bark responses to soil warming and nutrient addition – an experimental dendroecological approach. *Dendrochronologia*, 45, 12-22.
- 27 *Juszak, I., Iturrate-Garcia, M., Gastellu-Etchegorry, J.P., Schaepman, M.E., Maximov, T.C., **Schaepman-Strub, G.** (2017), Drivers of shortwave radiation fluxes in Arctic tundra across scales. *Remote Sensing of Environment*, 193, 86-102.
- 28 *Ksenofontov, S., Backhaus, N., **Schaepman-Strub, G.** (2017), 'To fish or not to fish?': fishing communities of Arctic Yakutia in the face of environmental change and political transformations. *Polar Record*, 1-15. **Polar Record Editor's pick.**
- 29 Loew, A., Bell, W., Brocca, L., Bulgin, C., Burdanowitz, J., Calbet, X., Donner, R.V., Ghent, D., Gruber, A., Kaminski, T., Kinzel, J., Klepp, C., Lambert, J.-C., **Schaepman-Strub, G.**, Schröder, M., Verhoelst, T. (2017), Validation of earth observation data products - a review. *Review of Geophysics*, 55.
- 30 *Oehri, J., Schmid, B., **Schaepman-Strub, G.**, Niklaus, P.A. (2017), Biodiversity promotes primary productivity and growing season lengthening at the landscape scale. *PNAS*, 114(38), 10160-10165.
- 31 Wang, P., Limpens, J., Mommer, L., van Ruijven, J., Nauta, A., Berendse, F., **Schaepman-Strub, G.**, Blok, D., Maximov, T., Heijmans, M. (2017), Above and belowground responses of four tundra plant functional types to deep soil heating and surface soil fertilization. *Journal of Ecology*, 105, 947-957.
- 32 Yamasaki, E., Altermatt, F., Cavender-Bares, J., Schuman, M.C., Zuppinger-Dingley, D., Garonna, I., Schneider, F.D., Guillen-Escriba, C., van Moorsel, S., Hahl, T., Schmid, B., **Schaepman-Strub, G.**, Schaepman, M.E., Shimizu, K.K., (2017), Genomics meets remote sensing in global change studies: monitoring and predicting phenology, evolution and biodiversity. *Current Opinion in Environmental Sustainability*, 29, 177-186.
- 33 *Iturrate-Garcia, M., O'Brien, M., Khitun, O., Abiven, S., Niklaus, P., **Schaepman-Strub, G.** (2016), Interactive effects between plant functional types and soil properties determine tundra species diversity and community composition. *Ecology and Evolution*, 6 (22), 8126-8137.
- 34 *Juszak, I., Eugster, W., Heijmans, M.M.P.D., **Schaepman-Strub, G.** (2016), Contrasting radiation and soil heat fluxes in Arctic shrub and wet sedge tundra. *Biogeosciences*, 13, 4049-4064. **Faculty 1000 recommendation** <http://f1000.com/prime/726638562#eval793522135>
- 35 Myers-Smith, I.H., Elmendorf, S.C., Beck, P.S.A., Wilmking, M., Hallinger, M., Blok, D., Tape, K.D., Rayback, S.A., Macias-Fauria, M., Forbes, B.C., Speed, J.D.M., Boulanger-Lapointe, N., Rixen, C., Levesque, E., Schmidt, N.M., Baittinger, C., Trant, A.J., Hermanutz, L., Collier, L.S., Dawes, M.A., Lantz, T.C., Weijers, S., Jorgensen, R.H., Buchwal, A., Buras, A., Naito, A.T., Ravolainen, V., **Schaepman-Strub, G.**, Wheeler, J.A., Wipf, S., Guay, K.C., Hik, D.S., Vellend, M. (2015), Climate sensitivity of shrub growth across the tundra biome.

- Nature Climate Change*, 5, 887. **Web of Science highly cited paper top 1% of the academic field of Environment/Ecology.**
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 - 37 Hakuba, M., Folini, D., **Schaepman-Strub, G.**, Wild, M. (2014), Solar absorption over Europe from collocated surface and satellite observations. *Journal of Geophysical Research: Atmospheres*, 119(6): 3420-3437.
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 - 41 Bartholomeus, H., **Schaepman-Strub, G.**, Blok, D., Sofronov, R., Udaltsov, S. (2012), Spectral Estimation of Soil Properties in Siberian Tundra Soils and Relations with Plant Species Composition. *Applied and Environmental Soil Science*, 13.
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 - 43 *Blok, D., **Schaepman-Strub, G.**, Bartholomeus, H., Heijmans, M. M. P. D., Maximov, T. C., Berendse, F. (2011), The response of Arctic vegetation to the summer climate: relation between shrub cover, NDVI, surface albedo and temperature, *Environmental Research Letters*, 6(3), 035502.
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 - 46 Myers-Smith, I.H., Forbes, B.C., Wilmking, M., Hallinger, M., Lantz, T., Blok, D., Tape, K.D., Macias-Fauria, M., Sass-Klaassen, U., Levesque, E., Boudreau, S., Ropars, P., Hermanutz, L., Trant, A., Collier, L.S., Weijers, S., Rozema, J., Rayback, S.A., Schmidt, N.M., Schaepman-Strub, G., Wipf, S., Rixen, C., Menard, C.B., Venn, S., Goetz, S., Andreu-Hayles, L., Elmendorf, S., Ravolainen, V., Welker, J., Grogan, P., Epstein, H.E., Hik, D.S. (2011), Shrub expansion in tundra ecosystems: dynamics, impacts and research priorities. *Environmental Research Letters*, 6(4), 045509. **Web of Science highly cited paper top 1% of the academic field of Environment/Ecology.**
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- 54 Schaepman, M.E., Wamelink, G.W.W., van Dobben, H.F., Gloor, M., **Schaepman-Strub, G.**, Kooistra, L., Clevers, J.G.P.W. Schmidt, A., Berendse, F. (2007), River Floodplain Vegetation Scenario Development Using Imaging Spectroscopy Derived Products as Input Variables in a Dynamic Vegetation Model. *Photogrammetric Engineering & Remote Sensing*, 73, 1179-1188.
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Book chapters

- 1 Schaepman-Strub (2020), The green Arctic. In *The Glacier's Essence*, Scheidegger & Spiess, ISBN 978-3-85881-665-8.
- 2 Schrod, F., de la Barrera Bautista, B., Williams, C., Boyd, D., **Schaepman-Strub, G.**, Santos, M.J. (2020), Integrating biodiversity, remote sensing and auxiliary information for the study of ecosystem functioning and conservation at large spatial scales. In *Remote Sensing of Plant Biodiversity*, J. Cavender-Bares, P. Townsend, J. Gamon, Eds., Springer. ISBN 978-3-030-33156-6.
- 3 **Schaepman-Strub, G.**, Schaepman, M.E., Martonchik, J., Painter, T., Dangel, S. (2009), Radiometry and Reflectance: from Terminology Concepts to Measured Quantities. In *The SAGE Handbook of Remote Sensing*, T. Warner, M.D. Nellis & G. Foody, Eds., SAGE, UK.

- 4 Bruegge, C.J., Schaepman, M., **Strub, G.**, Beisl, U., Demircan, A., Geiger, B., Painter, T., Paden, B., Dozier, J. (2004), Field measurements of bi-directional reflectance. In *Reflection Properties of Vegetation and Soil - with a BRDF Data Base*, M. Von Schönemark, B. Geiger, H.P. Röser, Eds., Wissenschaft und Technik Verlag, Berlin, pp. 352.
- 5 Schaepman, M.E., Koetz, B., **Schaepman-Strub, G.**, Zimmermann, N.E., Itten, K.I. (2004), Quantitative retrieval of biogeophysical characteristics using imaging spectroscopy - a mountain forest case study. In *Modern Approaches in Vegetation Monitoring*, E. Feldmeyer-Christe, S. Ghosh, O. Wildi, N. E. Zimmermann, J. Podani, Eds., Budapest, Akadémiai Kiadó, pp. 143.

7. Conference abstracts, proceedings, proceeding papers and report contributions

G. Schaepman-Strub has (co-) authored > 50 conference abstracts, proceeding papers and reports, a selection is listed below for 2012-2019.

- 1 Walker, D.A., **G. Schaepman-Strub**, E. Plekhanova, and J. Pierce. (Eds). 2019. The Arctic Vegetation Archive and Arctic Vegetation Classification: Proceedings and abstracts from two workshops. CAFF Proceedings Report. Conservation of Arctic Flora and Fauna, Akureyri, Iceland.
- 2 Verhoelst, T., Bell, W., Brocca, L., Bulgin, C., Burdanowitz, J., Calbet, X., Donner, R., Ghent, D., Gruber, A., Kaminski, T., Klepp, C., Lambert, J.C., Liman, J., **Schaepman-Strub, G.**, Schroeder, M., Loew, A., (2019), Validation practices for satellite-based Earth observation data across communities. EGU General Assembly, 2019.
- 3 **Schaepman-Strub, G.** (2018), Increasing the predictability of Arctic land surface energy fluxes. Polar 2018, Davos, 2018.
- 4 Stünzi, S., **Schaepman-Strub, G.** (2018), Significant shortwave radiative forcing through boreal forest loss in eastern Siberia. EGU General Assembly, 2018.
- 5 Fischer, H., Lehning, M., Pasche, N., **Schaepman-Strub, G.**, Stocker, T. (2017), Towards a Science Plan of the Swiss Polar Institute. Science and Technology Advisory Board, Swiss Polar Institute, p. 9.
- 6 van Huissteden, K., Heijmans, M., Dean, J., Meisel, O., Goovaerts, A., Parmentier, F.-J., **Schaepman-Strub, G.**, Belelli Marchesini, L., Kononov, A., Maximov, T. (2017), Thaw pond dynamics and carbon emissions in a Siberian lowland tundra landscape. EGU General Assembly 2017.
- 7 **Schaepman-Strub, G.**, Iturrate-Garcia, M., Ksenofontov, S., Backhaus, N., Maximov, T. (2017), Global Change, Biodiversity, Ecosystem Functions, and Livelihoods in Northern Yakutia across Scales and Disciplines. Arctic Science Summit Week, Prague, 2017.
- 8 Juszak, I., Iturrate Garcia, M., Gastellu-Etchegorry, J.P., Schaepman, M.E., **Schaepman-Strub, G.** (2016), Radiation budget and soil heat fluxes in different Arctic tundra vegetation types. Geophysical Research abstracts, EGU General Assembly, Vienna, Austria.
- 9 Kropp, H. , Loranty, M. , Natali, S. , Kholodov, A. , Abbott, B. , Abermann, J. , Blanc-Betes, E. , Blok, D. , Blume-Werry, G. , Boike, J. , Cahoon, C. , Christiansen, C. , Euskirchen, E. , Frost, G. , Goeckede, M. , Gough, L. , Hjorth, J. , Hoje, T. , Jones, B. , Jorgenson, T. , Juszak, I. , Kokelj, S. , Lund, M. , Lafleur, P. , Mamet, S. , Mauritz, M. , Michelsen, A. , Myers-Smith, I. , O'Donnell, J. , Olefeldt, D. , Phoenix, G. , Rocha, A. , Sannel, B. , **Schaepman-Strub, G.** , Sonnentag, O. , Tape, K. , Torn, M. , Smith Vaughn, L. , Sorensen, M. , Williams, M. and Wilson, C. (2016), Impacts of vegetation on the decoupling between air and soil temperatures across the Arctic. AGU Fall Meeting, San Francisco, USA.
- 10 Oehri, J., **Schaepman-Strub, G.**, Niklaus, P. (2016), The role of diversity in real-world ecosystem functioning: Insights from investigations at the landscape-scale. ESA annual meeting, USA.
- 11 **Schaepman-Strub, G.**, Iturrate-Garcia, M., Juszak, I., Ksenofontov, S., Reisser, M., Gerber, F., Erb, A., Simeon, R., Tjin, S., Khitun, O., Niklaus, P., Schapeman, M.E., Kononov, A., Petrov, R., Maximov, T. (2016), Global change and biodiversity in the tundra ecosystem – a synthesis of ecosystem status and functioning

- aspects, and global change feedback mechanisms through the energy cycle. Proceedings IXth International Symposium 'C/H₂O/energy balance an climate over the boreal and Arctic regions', p. 60.
- 12 Fernandes, R., Plummer, S., Nightingale, J., Baret, F., Camacho, F., Fang, H., Garrigues, S., Gobron, N., Lang, M., Lacaze, R., LeBlanc, S., Meroni, M., Martinez, B., Nilson, T., Pinty, B., Pisek, J., Sonnentag, O., Verger, A., Welles, J., Weiss, M., Widlowski, J.L. (2014), Global Leaf Area Index Product Validation Good Practices. Version 2.0. In Best Practice for Satellite-Derived Land Product Validation, **Schaepman-Strub, G.**, Roman, M., Nickeson, J., Eds. Land Product Validation Subgroup (WGCV/CEOS), p. 76.
 - 13 GCOS (2015), Status of the Global Observing System for Climate, GCOS-195, WMO, pp. 353. **G. Schaepman-Strub** listed as contributor to report.
 - 14 **Schaepman-Strub, G.**, Land Product Validation Sub-group Team (2015), Validation of satellite-derived land surface variables – international coordination and status. Geophysical Research Abstracts, EGU General Assembly, Vienna, Austria.
 - 15 Хитун, О., **Schaepman-Strub, G.**, Iturrate-Garcia, M. (2014), ЛОКАЛЬНАЯ ФЛОРА ОКРЕСТНОСТЕЙ СТАЦИОНАРА «КЫТАЛЫК» (РЕСПУБЛИКА САХА), ББК 28.58 С 75, ISBN 978-593491-613, 216-223.
 - 16 **Schaepman-Strub, G.**, Iturrate, M., Juszak, I., Furrer, R. (2013), Towards assessing biodiversity feedbacks to climate in the Arctic. Arctic Vegetation Archive Workshop, Krakow, Poland.
 - 17 Juszak, I., Erb, A., **Schaepman-Strub, G.** (2013), Shortwave radiation interaction with highly patterned tundra vegetation. TR32, 11-14 March 2013, Bonn, Germany.
 - 18 **Schaepman-Strub, G.**, Erb, A., Gurm, K., & Budishchev, A. (2012), Shortwave radiation interaction with highly patterned tundra vegetation and feedbacks to permafrost soil and atmosphere. Fall Meeting AGU, San Francisco, CA, USA.
 - 19 Budishchev, A., Mi, Y., Gallagher, A., van Huissteden, J., **Schaepman-Strub, G.**, Dolman, A.J., & Maximov, T.C. (2012), Validation of a methane emission model using eddy covariance observations and footprint modeling. Geophysical Research Abstracts. EGU General Assembly, Vienna, Austria.

8. Teaching experience (course and contribution)

2020 –	Earth System Modelling (MSc, ESS416, 4 ECTS), Univ. of Zurich. Module responsibility, support of course development in collaboration with Dr. J.-S. Kim.
2019 –	Introduction to Earth System Science (BSc, ESS101, 2 ECTS, field course and seminar), Univ. Zurich. Module responsibility, course taught in collaboration with Prof. Dr. M.J. Santos.
2017 –	Integrated Knowledge in Biology (MSc, BIO 520 – Ecology, 10 ECTS self-study), Univ. Zurich. Module coordinator, examiner (approx. 20 MSc students/year).
2016 –	Ecosystems and Climate (BSc, UWW182, 3 ECTS, 120+ students), Univ. Zurich. Full course responsibility (design of course, organization, main lecturer, assignments).
2013 –	Movement Ecology Summer School (PhD program in ecology, Life Science Zurich), Univ. Zurich. Lectures and practicals on 'Remote Sensing in Movement Ecology' (5 hours).
2011 –	Spatial Ecology and Remote Sensing (MSc, UWW252, 2 ECTS), Univ. Zurich. Full course responsibility (course design, lecturing, practicals, assignments).
2017	Biodiversity and Global Change (Massive Open Online Course), Univ. Zurich. Lecture on 'Arctic biodiversity'.
2009 - 2012	Tropical Forest Ecology (BSc, UWW 112), Univ. Zurich. Lecture on 'Remote Sensing in Tropical Forests' (2 hours).
2007 - 2008	Trends in Ecology (MSc, REG 31306), Wageningen Univ. Lecture on 'Arctic Vegetation in a Changing Climate' (2 hours) and related supervision of Arctic assignment.
2006 - 2008	Remote Sensing (MSc, GRS-20306), Wageningen Univ. Guest lecture on 'Reflectance Anisotropy in Remote Sensing' (2 hours).
2002 – 2003	Imaging Spectroscopy (MSc, 2475, 2547), Univ. Zurich. Lecture on 'Reflectance Anisotropy'.
1997 – 1999	Practicals in Remote Sensing II (BSc; 2299, 2318, 2409), Univ. Zurich. Teaching assistant.

9. Supervision of early career researchers and students (*awards in italic*)

Postdocs & Senior Staff

2021 –	Cornelia Krug, Univ. Zurich
2020 –	Jin-Soo Kim, Univ. Zurich
2019 – 2021	Paul Haverkamp, Univ. Zurich
2019 – 2021	Jacqueline Oehri, Univ. Zurich
2017	Maitane Iturrate-Garcia, Univ. Zurich
2016 – 2017	Paul Haverkamp, Univ. Zurich
2016 – 2017	Gian-Marco Palamara (co-supervision with R. Furrer), Univ. Zurich

PhD students main supervision

2020 –	Cengiz Akandil, Univ. Zurich
2019 –	Vitalii Zemlianski, Univ. Zurich
2018 –	Raleigh Grysko, Univ. Zurich
2018 –	Elena Plekhanova, Univ. Zurich (<i>IASC ASSW'19 travel award</i>)
2018 –	Annabelle Constance, Univ. Zurich (<i>Biology'19 best poster award; WIOMSA award</i>)
2013 – 2017	Maitane Iturrate-Garcia, Univ. Zurich
2012 – 2016	Inge Juszak, Univ. Zurich (<i>Outstanding Student Poster Award, European Geophysical Union, 2015</i>)

PhD student co-supervision

2014 – 2018	Jacqueline Oehri (co-supervision with P. Niklaus), Univ. Zurich
2013 – 2018	Stanislav Ksenofontov (co-supervision with N. Backhaus), Univ. Zurich (<i>Swiss Government Excellence Scholarship; International Arctic Science Committee (IASC) Fellowship</i>)
2013 – 2017	Florian Gerber (co-supervision with R. Furrer), Univ. Zurich (<i>SNSF early postdoc mobility fellowship</i>)
2007 – 2011	Daan Blok (co-supervision with F. Berendse), Wageningen Univ.

Host for PhD exchange student

2017	Jin-Soo Kim, Pohang Univ. of Science and Technology (<i>Fellowship award, Young Researchers Exchange Programme between Korea and Switzerland</i>)
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PhD student committees

2021	Maomao Feng, ETHZ
2020 –	Hanneke van 't Veen, Univ. Zurich
2019 –	Laura Turner, Univ. Nottingham (<i>Envision NERC Doctoral Training Partnership</i>)
2019 –	Dilsad Dagtekin, Univ. Zurich
2018 –	Alizée le Moigne, Univ. Zurich (<i>SPI Polar Access Fund 2018</i>)
2017 – 2021	Angela Erb, Univ. Massachusetts Boston
2011 – 2014	Maria Hakuba, ETHZ
2008 – 2015	Jörg Weyermann, Univ. Zurich

MSc students

2020	Cengiz Akandil, Univ. Zurich
2019	Ariane Goerens, Univ. Zurich
2018	Tamara Link, Univ. Zurich
2017	Julia Cerutti, Univ. Zurich
2017	Simone Stünzi, Univ. Zurich
2017	Mariela Soto Araya, Univ. Zurich
2016	Annabelle Constance, Univ. Zurich

2016	Dominique Weber, Univ. Zurich (<i>Schweizer Wettbewerb für Phänologie- und Saisonalität</i> , SCNAT)
2015	Rachel Simeon, Univ. Zurich
2015	Richard Baxter, Univ. Zurich (co-supervision)
2015	Rowana Walton, Univ. Edinburgh (<i>with distinction</i>)
2013	Angela Erb, Univ. Zurich (<i>with distinction</i> ; <i>Alexander Goetz Instrument Program Award</i>)
2013	Kiran Gurm, Univ. Zurich (<i>Alexander Goetz Instrument Program Award</i>)
2013	John Shekeine, Univ. Zurich
2011	Nathalie Brügger, Univ. Zurich
2011	Sarah Pellkofer, Univ. Zurich (co-supervision)
2008	Thijs van den Bergh, Wageningen Univ. (co-supervision)
2007	Martin Claverie, Wageningen Univ.
2006	Alemu Gonsamo, Wageningen Univ.
2006	Martijn Menken, Wageningen Univ.
2003	Jürg Schopfer, Univ. Zurich (co-supervision)
2002	Silvia Huber, Univ. Zurich

BSc students

2019	Tabea Eckert, Semesterarbeit (UWW163), Univ. Zurich
2017	Fluregna Schindler, BSc thesis in Earth System Science, Univ. Zurich
2016	Sondra Tijn, Semesterarbeit (UWW163), Univ. Zurich

Internships

2021	Isaline Businger
2020	Rhonda Müller
2020	Merin Chacko
2019	Celine Walker
2011	Jolien van Huistee

10. Field expeditions

2008 – present	Lead of field expeditions to remote areas (Arctic Siberia and Aldabra Atoll) at regular basis, including preparations, health and safety coordination, permission for instrumentation, logistics for field site materials. Expedition members include research group members, members of research priority program at UZH, and international scientists, with a group size of 3-8 members every year.
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11. Institutional services at University of Zurich

2019 –	Co-Director of the University Research Priority Program Global Change and Biodiversity, Univ. Zurich.
2013 –	Member of the University Research Priority Program Global Change and Biodiversity, Univ. Zurich; including mentoring of PhD students and responsibility for research site Kytalyk, Siberia.
2016 – 2020	Subject expert for practical exams of biology teachers (Höheres Lehramt Mittelschulen, HLM).
2015	Scientifica – Zurich Science Days, 'Light and Biodiversity', concept & presence at booth, Univ. Zurich.
2013	Scientifica – Zurich Science Days, 'Biodiversität – der bedrohte Nutzen der Vielfalt', support to booth and presence during event, Univ. Zurich.
2012	Presentation on research career, Promotionsseminar, Graduate School in Geography, Univ. Zurich.
2010	Invitee to podium discussion, 'Karriere machen und Kinder haben? 4 Lebensmodelle im Fokus', Univ. Zurich.

- 2009 – 2011 Lead of 'Young Academics in Spatial Ecology (YASE)', peer-mentoring project, Faculty of Science, Univ. of Zurich.
- 2009 – 2010 Lead of governance working group for merger of Dept. Evolutionary Biology and Environmental Studies, Univ. of Zurich.

12. National and international responsibilities, scientific services and memberships

- 2020 – Member of External Advisory Committee, Spectral Biology for the Study of Biodiversity and Global Change, NSF Biology Integration Institutes <https://www.spectralbiology.org/>.
- 2020 – 2022 Chair of Science and Technology Advisory Board, Swiss Polar Institute <https://swisspolar.ch/>.
- 2018 – Swiss representative, Conservation of Arctic Flora and Fauna (CAFF) & terrestrial working group, Arctic Council.
- 2018 – Editorial board member, Polar Record, Cambridge University Press.
- 2017 – Swiss vice delegate, Council of International Arctic Science Committee (IASC).
- 2016 – Swiss representative, Terrestrial Working Group & Internat. Science Initiative in the Russian Arctic, International Arctic Science Committee (IASC).
- 2012 – Member of Shrubhub and Drone Ecology research network (HiLDEN).
- 2019 Member of evaluation panel, Postdoctoral and Academy research fellow applications, Research Council for Biosciences, Health and Environment, Academy of Finland.
- 2018 Reviewer, ERC Consolidator grant programme, Earth system science.
- 2018 Member of Swiss Science delegation, Arctic Science Ministerial 2, Berlin, Oct. 2018.
- 2018 Invitee to Swiss delegation, Greenland Expedition, Swiss Federal Department of Foreign Affairs FDFA, 06 - 15 May 2018.
- 2017 – 2019 Vice chair, Swiss Committee on Polar and High Altitude Research (SKPH), Swiss Academies of Arts and Sciences (SCNAT). Since 2019 regular member of SKPH.
- 2017 – 2020 Member of Science and Technology Advisory Board, Swiss Polar Institute <https://swisspolar.ch/>.
- 2017 – 2019 Member of Advisory Board, GlobDiversity Project, European Space Agency.
- 2015 Member of evaluation panel, Postdoctoral and Academy research fellow applications, Research Council for Biosciences and Environment, Academy of Finland.
- 2013 – 2016 Chair of Land Product Validation Subgroup (LPV), Committee on Earth Observation Satellites (CEOS) <https://lpvs.gsfc.nasa.gov/>.
- 2010 – 2013 Vice chair of Land Product Validation Subgroup (LPV), co-lead of Surface Radiation Focus area, Committee on Earth Observation Satellites (CEOS).
- Peer-review** Agricultural and Forest Meteorology, Atmospheric Measurement Techniques, Biogeosciences, Bulletin of the American Meteorological Society, Current Opinion in Environmental Sustainability, Ecological Applications, Environmental Research Letters, IEEE TGRS, Int. J. of Remote Sensing, J. Photogrammetry and Remote Sensing, Nature Climate Change, Nature Communications, Remote Sensing of Environment.

Memberships in scientific societies

Swiss Committee on Polar and High Altitude Research (SCNAT), American Geophysical Union (AGU), Ecological Society of America (ESA)

13. Invited and solicited presentations (since 2011)

- 2020 1st BNU Arctic Workshop, Beijing (online), 19 November 2020.
- 2019 Arctic Science Summit Week (ASSW), Arkhangelsk (keynote presentation), 24 May 2019.
- 2017 International Arctic Systems for Observing the Atmosphere (IASAO), Atmosphere-Surface
- 2017 Exchanges Working Group, November 8 (online meeting).
- 2017 ARCFUNC, June 13, Aarhus, DK.

2017	Arctic Science Summit Week, April 4, Prague, CZ.
2017	Swiss Committee on Polar and High Altitude Research, April 28, Bern, CH.
2016	International Space Science Institute, January 18, Bern, CH.
2015	CEOS Working Group on Calibration and Validation Plenary, May 6, Berlin, DE.
2015	Global Climate Observing System (WMO), Terrestrial Panel, March 17, Birmensdorf, CH.
2014	CEOS Working Group on Calibration and Validation Plenary, October 02, College Park, USA.
2014	Jet Propulsion Laboratory, July 7, 2014, Pasadena, USA.
2014	Community Land Model group at NCAR, July 2, Boulder, USA.
2014	National Ecological Observatory Network (NEON), July 1, Boulder, USA.
2014	Infrared and Visible Optical Sensors Subgroup (CEOS), June 06, Pasadena, USA.
2014	Hydrologic Sciences Graduate Groups Seminar, April 24, UC Davis, USA.
2014	Workshop on Land product validation and evolution, January 28, ESA/ESRIN Frascati, IT.
2013	Global Climate Observing System (WMO), Terrestrial Panel, March 07, Geneva, CH.
2012	Naturforschende Gesellschaft Zürich, November 5, Zurich, CH.
2011	Swissplant'11 Symposium, February 10, Meiringen, CH.
2011	Dies Romanicus Turicensis, University of Zurich, June 24, Zurich, CH.

14. Organisation of conferences

Symposium and session organizer

2021	Session organizer, Arctic Science Summit Week, 'Biodiversity and ecosystem functions in the New Arctic', Online Meeting, 2021.
2020	Session co-organizer, EGU meeting, 'Permafrost in transition – future of permafrost ecosystems and consequences for climate feedback', Vienna, 2020.
2020	Session organizer, World Biodiversity Forum, 'The ice-free Arctic - seeking solutions for the global hot spot of climate change', Davos, 2020.
2020	Workshop organizer, Zurich meets Seoul festival, 'Factor PI: Observing Extreme Environments on and beyond Earth: The Arctic as Hot Spot of Climate Change', Seoul, 2019.
2019	Session organizer, AGU fall meeting, 'Arctic Land Surface Energy Fluxes and their Impact on the Earth System under Current and Future Conditions', San Francisco, 2019.
2019	Meeting organizer, IASC workshop 'Arctic Biodiversity and Ecosystem Functioning', Arkhangelsk, RU, May 2019.
2018	Session organizer, 'Pan-arctic assessment and data management of plant diversity and community', Arctic Biodiversity Congress, Rovaniemi, FI.
2018	Session organizer, 'Climate change and ecosystems: physiology, biodiversity and ecological functions', Polar 2018, Davos, CH. (120 abstracts, 7 oral sessions as main convener, supported by 3 co-conveners).
2015	Session organizer, 'Earth observation for monitoring and modeling the global energy, water and carbon cycles over land using model-data integration', EGU, Vienna, AT.
2014	Session organizer, 'Assessment of Satellite-Derived Land Surface Variables', AGU, San Francisco, USA.
2012	Session organizer, 'Quality Assessment of Satellite-Derived Land Surface Variables', session I-III, AGU, San Francisco, USA.
2007	Symposium organizer, 'First International Symposium on Carbon in Peatlands', Wageningen, NL.
2005	Session organizer, 'Gas exchange and global change in peatlands: from soil to satellite', ESA, Montreal, CA.

Scientific committee member

2022	World Biodiversity Forum, Davos, CH
2021	Arctic Science Summit Week, IASC, Lisbon, P.
2020	World Biodiversity Forum, Davos, CH
2019	Xth International Symposium on 'C/H ₂ O/Energy balance and climate over boreal and arctic regions with special emphasis on eastern Eurasia', Hokkaido, JP.
2017	10th EARSeL Imaging Spectroscopy Workshop, Zurich, CH.
2016	9th International Symposium on 'C/H ₂ O/Energy balance and climate over boreal and arctic regions with special emphasis on eastern Eurasia', Yakutsk, RU. Proba-V Symposium, European Space Agency, Ghent, BE.
2014	8th International Symposium on 'C/H ₂ O/Energy balance and climate over boreal and arctic regions with special emphasis on eastern Eurasia', Wageningen, NL.
2013	Plant Science Center Symposium 'Plants in a Changing Climate', Zurich, CH.
2009	Scientific committee member and organizer of special session on Albedo, Int. Conf. on Land Surface Radiation and Energy Budgets, Beijing, CN.
2007	ISPRS 10th Intl. Symp. Physical Measurements and Signatures in Remote Sensing, Davos, CH.

15. Outreach and media coverage

2021	SRF Einstein, Permafrost, April 1
2020	Interview SRF4 News, Ölkatastrophe in Sibirien: 70 Prozent der Infrastruktur in der Arktis sind hoch gefährdet, 13 July 2020. https://www.srf.ch/news/panorama/oelkatastrophe-in-sibirien-70-prozent-der-infrastruktur-in-der-arktis-sind-hoch-gefaehrdet
2020	Interview SRF Echo der Zeit, Hitzewelle in Sibirien: Wissenschaftler sind alarmiert, 07 July 2020. https://www.srf.ch/play/radio/cms-site-search/audio/media?id=69f8213a-69b2-4c3f-a969-976552aca5ab
2020	Interview with NZZ am Sonntag, 'Hitzewelle in der Arktis: Die Torfböden brennen', 27 June 2020. https://nzzas.nzz.ch/wissen/hitzewelle-in-der-arktis-das-macht-mir-sorgen-sagt-die-klimaforscherin-id.1563474?
2020	Regional newspaper and 'higgs' article, 'Die Arktis, wie wir sie heute kennen, ist verloren'. https://www.higgs.ch/die-arktis-wie-wir-sie-heute-kennen-ist-verloren/32406/
2020	Panel member, World Biodiversity Forum, 'The ice-free Arctic - seeking solutions for the global hot spot of climate change', Davos, 2020.
2020	Round table participant 'The frontiers of Life', La Nuit des Idées/Night of Ideas, Institut Francais, January 30.
2020	Book chapter, 'Wie der Klimawandel die Vegetation und das Leben in der Arktis verändert', In: Des Gletschers Kern, Scheidegger-Spiess Verlag. Book vernissage, Never Stop Reading, Zurich, 17 January 2020.
2018	UZH News article 'Die Vegetation in der Arktis erforschen', 02 May 2018.
2017	Public presentation, 'Arktische Ökosysteme: Veränderung lässt Klima und Bevölkerung nicht kalt', September 12, Vortragsreihe 'Schweizer Polarforschung', Fokus Terra, ETH Zurich, CH.
2017	Public presentation, 'Arktis – mehr als Eisbären', Philosophie, April 08, Dielsdorf, CH.
2016	Interview article in Polarnews magazine, 24, pp. 44-47. Researcher portrait in >20 regional Swiss newspapers, October 28. http://www.limmattalerzeitung.ch/leben/leben/leute-sind-hier-schon-ausgeflippt-diese-frau-forscht-in-sibirischer-einoede-130675400

- 2016 Science talk show, 'Wissenschaft Persönlich', invited guest by Beat Glogger, Stadtbibliothek Winterthur, October 25. <http://wissenschaft-persoendlich.ch/oktober-2016-gabriela-schaepman-strub/>
- 2016 Video portrait, Swiss application for observer status to the Arctic Council, September.
- 2015 20 Minuten article, 'Diese Frau forscht am Ende der Welt', October 02. <http://www.20min.ch/wissen/news/story/Diese-Frau-forscht-am-Ende-der-Welt-25718668>
- 2013 Interview on radio SRF4 News, 'Klimawandel beeinflusst Vegetation in der Tundra', August 02, <http://www.srf.ch/sendungen/srf-4-aktuell/klimawandel-beeinflusst-vegetation-in-der-tundra>
- 2013 Blog about field work in Siberia (featured in UZH 'Jahresrückblick 2013'). <http://www.uzh.ch/blog/gcb-siberia/>
- 2013 UZH News article 'Expedition in die sibirische Tundra', June 02. <http://www.uzh.ch/news/articles/2013/expedition-in-die-sibirische-tundra.html>
- 2012 Sonntagszeitung, 'Unfruchtbare Riesen', Beate Kittl, January 08.
- 2011 UZH News article, 'Die Riesen von Aldabra', December 09. <http://www.uzh.ch/news/articles/2011/die-riesen-von-aldabra.html>

16. Advanced training

- 2021 Media training for scientists, SNSF, 15 January, Switzerland.
- 2020 Basics in performance appraisals, 25 November, UZH, Switzerland.
- 2019 ERC grant proposal writing, 30 April, UZH, Switzerland.
- 2019 Health and safety training for tundra and remote areas, GRIMM, 26 April 2019, Sion, Switzerland.
- 2019 Stimmkraft-Training für Frauen in der Lehre, Maxi Zöllner, 21-22 March 2019, UZH, Switzerland.