

Personal information

Name	Markus Stoffel, Prof. Dr. rer. nat.; Prof. h.c.
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Date of birth	28 April 1974
Nationality	Swiss



Research Profiles

Google Scholar ID	https://scholar.google.ch/citations?user=nMIQpd0AAAAJ
Scopus Author ID	7102900542
Researcher ID	http://www.researcherid.com/rid/A-1793-2017
OrcID	0000-0003-0816-1303

Fields of excellence

- Climate change impacts and risks, in particular magnitude–frequency relations of mass-wasting processes in alpine and high-elevation environments (debris flows, rockfall, snow avalanches, landslides, floods, GLOFs)
- Climate-cryosphere linkages and their impacts on integrated water resources management
- Climatic impacts of large, tropical volcanic eruptions on Common Era societies (temperature, precipitation, oceanic circulations, subsistence economy)
- Alpine meteorology and climatology (precipitation, thresholds, extreme events, climatic change)
- Adaptation and mitigation strategies in the Anthropocene, integrated disaster risk management
- Media and communication sciences, outreach and dissemination, publishing
- Project management, fund raising (~9 million CHF since 2006), networking, PR

Education

12/2011	Habilitation thesis (<i>venia docendi</i>), Institute of Geological Sciences, University of Bern, Switzerland (Prof. F. Schlunegger)
07/2005	PhD thesis, Dept. Geosciences, University of Fribourg, Switzerland (Prof. M. Monbaron)
04/2003	Diploma thesis, Media and Communication Sciences, University of Fribourg, Switzerland (Prof. L. Bosshart)
04/1999	MSc thesis, Dept. Geosciences, Geography, University of Fribourg, Switzerland (Prof. M. Monbaron)
01/1999	Certificate, Environmental Sciences, Science Faculty, University of Fribourg, Switzerland (Dr. G. Schneider)

Employment history

08/2017	Full Professor , Chair for Climate Impacts & Risks in the Anthropocene (C-CIA), Institute for Environmental Sciences, University of Geneva
04/2017	Nominated for Head of “ <i>Dendrosciences</i> ” position, Swiss Federal Institute for Forest, Snow and Landscape Research, Birmensdorf, Switzerland
05/2016	Secundo loco for Full Professorship in “ <i>Environmental Systems Analysis</i> ”, Department of Geography, University of Cambridge, UK
05/2013 – 03/2017	Assistant Professor , Department of Physics and Department of Earth Sciences, University of Geneva
12/2011 – 12/2016	Privatdozent (Lecturer with <i>venia legendi</i>), Faculty of Science, University of Bern
01/2009 – 11/2011	Senior Lecturer , Institute of Geological Sciences, University of Bern
02/2009 – 04/2013	Maître d’Enseignement et de Recherche , Institute for Environmental Sciences, University of Geneva
10/2006 – 07/2009	Lehr- und Forschungsrat , Department of Geosciences, University of Fribourg
10/2006 – 01/2009	Chargé d’Enseignement , Institute for Environmental Sciences, University of Geneva
07/2000 – 09/2006	Diploma Assistant , Department of Geosciences, Geography, University of Fribourg
07/2000 –	Initiator and Director of the Swiss Tree-Ring Lab (www.dendrolab.ch)

Selection of approved research projects (9 mio CHF since 2006)

Amount	Funding agency	Title (Year, Role)
US\$ 145,000	UNEP	Pilot project on land degradation neutrality in Georgia (2018–2019; partner)
CHF 11, 660	SDC (DEZA); arcowa	Nature-based Solutions for Water (NbSW): Mapping, assessment and design of a new initiative of SDC’s GPW (2018; partner)
US\$ 72,380	FAO	Logical framework development for an Integrated National Forest Inventory in Myanmar (2017; PI)
CHF 205,000	BAFU, Canton VS	Prediction of future natural disasters using past climate analogues (2017–2019; PI)
GB£ 307,100	UK NERC	Citizen science for landslide risk reduction and disaster resilience building in mountain regions (2016–2019; Co-PI)
US\$ 34,800	US NSF	Linking ecosystem and geomorphic processes to understand large-scale dynamics of tropical mountains mediated by landslides (2016–2019; project partner)
CHF 24’900	Seco	ARAUCARIA: Investigating the impacts of Andean volcanism on Eastern South American climate (2015–2016; PI)
€ 970,500	H2020	ANYWHERE: Enhancing emergency management and response to extreme weather and climate events (2016–2019; partner)
CHF 249,800	SDC (DEZA)	IHCAP2: Indian Himalayas Climate Adaptation Program (2016; PI)
CHF 516,888	BAFU	WOODFLOW: Integrated management of large wood in rivers (2015–2019; PI)
CHF 196,500	SNF (EraNet RUS+)	Effects of large volcanic eruptions on Eurasian climate & societies: unravel past evidence to predict future impacts (2015–2018; PI)
CHF 183,700	BAFU	Integration of protection forests in risk-based assessments of rockfall hazards (2015–2017; PI)
CHF 102,550	SNF-ANR	ALIEN: Assessment of long terms effects of invading tree species on the protective function of forests against rockfall in Switzerland and France (2015–2017; co-applicant)

€ 55,200	Austrian Climate Research Fund	DEUCALION 2: Determining and Visualizing Impacts of Greenhouse Climate Rainfall in Alpine Watersheds on Torrential Disasters (2015–2018; co-applicant)
CHF 183,700	BAFU	Integration of protection forests in risk-based assessments of rockfall hazards (2015–2017; PI)
CHF 99,600	SDC (DEZA)	Extreme flash-flood events in Jammu & Kashmir, Indian Himalayas (2015–2016; PI)
JPY 2,700,000	Japan Society for Science Promotion	Toward systematic understanding of mountain landform dynamics: comparison between the Japanese and Swiss Alps (2014–2016; partner)
CHF 237,200	SNF	DEFenCC: Debris flow and outburst flood hazard in Tian Shan under impact of changing climate (2014–2017; PI)
CHF 105,000	SDC (DEZA)	PACC II – Programa de adaptación al cambio climático (2013–2016; partner)
CHF 187,000	Canton Valais	Frequency and climatology of extreme avalanches in the Goms Valley (2013–2016; PI)
CHF 352,000	SDC (DEZA), seco	CLIMPEAT: Climate Change in Peatlands: Holocene Record, Recent Trends & Related Impacts on Biodiversity and Sequestered Carbon (2013–2016; PI)
CHF 45,600	Caton of Valais	Climatic Extremes and Natural Disasters in the Valais Alps from the Middle Ages to the Time of Instrumental Measurements (2012–2015; co-PI)
CHF 2,051,751	SDC (DEZA)	IHCAP: Indian Himalayas Climate Adaptation Program (2012–2015; PI)
US\$ 24,000	UNDP	PETRA: Framework Development for an Integrated Risk Assessment in Petra, Jordan (2012; consultant)
CHF 415,000	SDC (DEZA), seco	FLORIST: Flood risk on the northern foothills of the Polish Tatra Mountains (2011–2016; PI)
CHF 151,800	Canton Valais	Assessing rockfall trajectory frequencies and risks along roads (2011–2013; PI)
€ 105,000	Austrian Climate Research Fund	DEUCALION: Determining and Visualizing Impacts of Greenhouse Climate Rainfall in Alpine Watersheds on Torrential Disasters (2011–2013; co-PI)
€ 100,000	Era.Net Circle	ARNICA: Assessment of risk on transportation networks resulting from slope instability and climate change in the Alps (2010–2012; co-PI)
€ 473,000	EU-FP7	HIGH NOON: Adaptation to Changing Water Availability in Northern India with Himalayan Glacier Retreat & Changing Monsoon Pattern (2009–2012; WP leader)
€ 605,000	EU-FP7	ACQWA: Assessing Climatic Change and Impacts on Quantity and Quality of Water (2008–2013; project coordinator)
CHF 346,000	BAFU; Canton VS	RUFINE: Debris-flow hazard mitigation in Valais (2006–2013; PI)

Supervision and Teaching

Supervision and/or direction of >30 **PhD** and **PostDocs** at the Universities of Bern, Fribourg, Geneva, BFH Zollikofen, Castilla–La Mancha, Complutense Madrid (both Spain), BOKU Vienna (Austria), UJF Grenoble, Paris 1–Sorbonne, UCA Clermont-Ferrand (both France), Cluj-Napoca (Romania), UNAM Mexico, CAS Beijing (China).

Coaching of >130 **BSc** and **MSc students** from Bern, Fribourg, Geneva, Lausanne, ETHZ (Switzerland); Bonn, Giesen, Frankfurt (Germany); BOKU (Austria), Gent (Belgium), Grenoble (France) since 2000.

Lecturer in Geomorphology, Natural Hazards and Climate Impacts at the Universities of Berne (Institute of Geological Sciences, Institute of Geography) and Geneva (Environmental Sciences, Dept. Earth Sciences). **Coordinator** for a **16-week** training on **Himalayan Glaciology, Hydrology, Climate and Hazards** at JNU Delhi (by mandate of Indian Ministry of Science and Technology and Swiss Development and Cooperation Agency); **coordinator** of a **5-day** scientific writing clinic at Pontificia Universidad Católica del Perú and UNSAAC Cusco (Peru).

Memberships and Reviewing Activities

Co-editor in Chief of *Geomorphology*

Associate Editor of *Frontiers in Ecology and Evolution*, and *Frontiers in Earth Science*

Editorial Board member of *Geography Compass*, *Boletín Geológico y Minero* (Spain), *Physical Geography*, *Annals of the American Geographers*

Guest editor: *Earth-Surface Processes and Landforms*, *Environmental Science & Policy*, *Geomorphology*, *Journal of Hydrology*, *Natural Hazards and Earth System Sciences*, *Science of the Total Environment*.

Former **Vice President** International Tree-Ring Society (<http://www.treeringsociety.org>), **President** of the scientific steering committee *Internationales Forschungsinstitut zur Geschichte des Alpenraums*, Brig (Switzerland), Elected member **Scientific Steering Committees:** Interpraevent, Klagenfurt (www.interpraevent.at), Swiss Academy of Sciences SCNAT (Research Commission Swiss National Park), Fachleute Naturgefahren Schweiz (FAN), Vallesiana.

Assessor for grant applications: Agencia Nacional Promoción Científica y Técnica, Argentina (**ANCPyT**), Austrian Climate Research Program (**ACRP**), Belmont Forum Grant Operations (**BFGO**), Deutsche Forschungsgemeinschaft (**DFG**), EU Framework Program (**EU-FP6, FP7; H2020**), European Science Foundation (**ESF**), EU-COST ESSEM Actions, Icelandic Research Fund (**IRF**), National Geographic Society (**NGS**), Netherlands Organisation for Scientific Research (**NWO**), Polish-Swiss Research Program (**OPI**), Swiss National Science Foundation (**SNF**), U.S. National Science Foundation (**NSF**).

Referee for >50 peer-reviewed ISI journals: *Agricultural and Forest Meteorology*, *Arctic Antarctic and Alpine Research*, *Climate Dynamics*, *Climatic Change*, *Comptes rendus de l'Académie des Sciences*, *Earth Surface Processes and Landforms*, *Earth System Dynamics*, *Ecological Engineering*, *Ecology*, *Environment Development and Sustainability*, *Environmental Research Letters*, *Environmental Science and Policy*, *Forest Ecology and Management*, *Frontiers of Earth Science*, *Geochronometria*, *Geografiska Annaler*, *Geographia Polonica*, *Geographica Helvetica*, *Geographical Bulletin*, *Géographie physique et Quaternaire*, *Geography Compass*, *Geoheritage*, *Geology*, *Geomorphology*, *Geophysical Research Letters*, *Holocene*, *Hydrology and Earth System Sciences*, *iForest*, *International Journal of Climatology*, *Journal of Environmental Management*, *Journal of Geography in Higher Education*, *Journal of Geophysical Research*, *Journal of Hydrology*, *Journal of Mountain Science*, *Landslides*, *Landscape and Urban Planning*, *Moravian Geographical Reports*, *Natural Hazards*, *Natural Hazards and Earth System Sciences*, *Natural Resources Forum*, *Nature Geoscience*, *Nature Scientific Reports*, *Permafrost and Periglacial Processes*, *Physics and Chemistry of the Earth*, *Regional Environmental Change*, *Revista de la Asociación Geológica de Argentina*, *Open Geology Journal*, *Palaeo-3*, *Physical Geography*, *Proceedings of the National Academy of Science*, *Progress in Physical Geography*, *Quaternary Research*, *Quaternary Science Reviews*, *Science of the Total Environment*, *Schweizerische Zeitschrift für Forstwesen*, *Sensors*, *Terra Nova*, *Tree-Ring Research*, *Tree Rings in Archeology*, *Climatology and Environment*, *Trees – Structure and Function*, and *Water Resources Research*.

Awards

05/2016	Nomination for the 2017 Bower Award and Prize for Achievement in Science for work on Perturbation of Systems in the Anthropocene, Franklin Institute, Philadelphia, U.S.
04/2016	International Tree-Ring Society (TRS) José Boninsegna Frontiers in Dendrochronology Award for significant contributions to cutting-edge science in dendrochronology, AmeriDendro Meeting, Mendoza
04/2015	American Association of Geographers (AAG) Denali Recent Achievement Award for excellence in research on climate change impacts on mass movements, AAG Annual Meeting Chicago
11/2010	Distinguished Professor (<i>Professor honoris causa</i>) in Physical and Technical Geography , Facultatea de Geografie, Universitatea Babeş-Bolyai, Cluj-Napoca, Romania
02/2006	Award for the best PhD thesis in Experimental Sciences at the Faculty of Science, University of Fribourg, Fribourg
11/2005	CHGEOL Award for the best application-oriented study conducted in the field of Geosciences, Swiss Geosciences Meeting 2005, Zurich

International work experience (selection)

- 2016 –** **Guatemala:** large-scale dynamics of tropical mountains mediated by landsliding: National Science Foundation (NSF); in collaboration with University of Puerto Rico.
- 2011 –** **Polish Tatras:** hazard and risks assessment of extreme future floods – in collaboration with the Polish Academy of Sciences (PAS) and the University of Silesia.
- 2012 –** **Indian Himalayas:** climate change impacts on glaciology, hydrology, natural disasters and risks: by mandate of EU-FP7 and the Swiss Development and Cooperation Agency (SDC) and in collaboration with the State Department of Science and Technology (DST).
- 2009 –** **Romanian Carpathians:** hazard and risk assessment for mass-movement processes and intoxication of forests: in collaboration with the Universitatea Babeş-Bolyai (UBB), Cluj-Napoca.
- 2009 –** **Argentinean Patagonia:** hazard and risk analysis originating from mass wasting processes: in collaboration with Instituto Argentino de Nivología, Glaciología y Ciencias Ambientales (IANIGLA), Mendoza and University of Western Ontario (UWO), Canada.
- 2009–12** **Ganga basin:** climate change impacts on glacier melt and glacier-lake outburst floods in the Ganga – adaptation and mitigation: in collaboration with British MetOffice, MPG Hamburg, Wageningen UR, Salford University, TERI and IITD (India), Nagoya University.
Austrian Alps: hazard assessment and risk mitigation of debris flows: by mandate of the Austrian Ministry of Agriculture, Forestry, Environment & Water Management (BMLFUW) and the Austrian Climate Research Programme (ACRP).
- 2008 –** **Tien Shan** (Kyrgyzstan and Uzbekistan): climate change impacts on glaciers, rock glaciers and natural disasters (Glacier Lake Outburst Floods): EU-FP7, Swiss National Science Foundation (NSF); in collaboration with the Kyrgyz and Uzbek National Academies of Science (KNAS / UNAS).
- 2008 –** **Transmexican volcanic belt:** assessment and mitigation of risks originating from lahars on Volcános Popocatepetl and Colima: in collaboration with Universidad de Complutense, Madrid, Spain (UCM) and Universidad Nacional Autónoma de México, México (UNAM).
- 2007 –** **Sistema Central, Spain:** risk assessment of flash floods: by mandate of Ministerio de Educación y Ciencia (Instituto Geológico y Minero de España IGME).
- 2003** **Bhutanese Himalaya:** ground truthing of remotely-sensed land-use data for the Danish Development Agency (DANIDA) and the Ministry of Agriculture (MoA), Bhutan.
- 2001–02** **High Atlas (Morocco):** fieldwork for the Swiss Development Agency (SDC) and publication of one of the Swiss contributions to the “*International Year of Mountains 2002*” presented at “*The World Summit on Sustainable Development*” in Johannesburg in 2002.

Media and communication

Visibility in the media: >150 reports in national and international newspapers, interviews for radio stations (SRF1, SRF3, Oe1, TSR) as well as 5 aired contributions in international broadcasting (ARD, SF1, TSR, TSI). An overview of newspaper reports can be found at www.dendrolab.ch/en/media.php

Personal media experience

- 1999–2001 Freelance journalist for the periodical *WBextra* (<http://www.walliserbote.ch/wbextra>)
- 1996–1998 Trainee and freelance journalist for the *Walliser Bote* (<http://www.walliserbote.ch>) (more than 70 published contributions in the daily newspaper)
- 1993–1995 Freelance journalist for *Radio Rottu Oberwallis* (www.rro.ch)

Publication list

Personal impact according to Google Scholar, accessed 13 January 2018

234 peer-reviewed ISI indexed papers

Sum of the times cited: 8496 (h index: 52; g index: 81; i10 index: 156)

ResearchGate statistics

RG Score: 46.76

Reads 44,123

(Co-) Editor of 8 journal special issues and 7 text books (incl. Springer, Elsevier, Wiley)

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Scopus Author ID: 7102900542

ResearcherID: www.researcherid.com/rid/A-1793-2017

Peer-reviewed ISI papers (2012–2018)

in press

- [234] Beniston, M., Farinotti, D., STOFFEL, M., Andreassen, L.M., Coppola, E., Eckert, N., Fantini, A., Giacona, F., Hauck, C., Huss, M., Huwald, H., Lehning, M., López-Moreno, J.I., Magnusson, J., Marty, C., Morán-Tejeda, E., Morin, S., Naaim, M., Provenzale, A., Rabatel, A., Six, D., Stötter, J., Strasser, U., Terzago, S., Vincent, C., **in press**. The European mountain cryosphere: A review of its current state, trends and future challenges. *The Cryosphere*.
- [233] Rodriguez Morata, C., Ballesteros Canovas, J.A., Rohrer, M., Espinoza, J. C., Beniston, M., STOFFEL, M., **in press**. Linkages of climate circulation patterns and hydrogeomorphic disasters in Peru. *International Journal of Climatology*.
- [232] Ballesteros-Cánovas, J.A., Trappmann, D., Madrigal-González, J., Eckert, N, STOFFEL, M., **in press**. Climate warming enhances snow avalanche risk in the Western Himalayas. *Proceedings of the National Academy of Science*.
- [231] Imaizumi, F., Nishiguchi, T., Matsuoka, N., Trappmann, D., STOFFEL, M., **in press**. Interpretation of recent alpine landscape system evolution using geomorphic mapping and L-band InSAR analyses. *Geomorphology*.
- [230] Oppenheimer, C., Orchard, A., STOFFEL, M., Newfield, T., Guillet, S., Corona, C., Sigl, M., Büntgen, U., **in press**. Timing and consequences of the Eldgjá lava flood eruption, Iceland. *Climatic Change*.
- [229] Edvardsson, J., Stančikaitė, M., Miras, Y., Corona, C., Gryguc, G., Gedminienė, L., Mazeika J., STOFFEL, M., **in press**. Late-Holocene vegetation dynamics in response to a changing climate and anthropogenic influences – Insights from stratigraphic records and subfossil trees from southern Lithuania. *Quaternary Science Reviews*
- [228] Fehlmann, M., Gascón, E., Rohrer, M., Schwarb, M., STOFFEL, M., **in press**. Estimating the snowfall limit in alpine and pre-alpine valleys: A local evaluation of operational approaches. *Atmospheric Research*.
- [227] Allen, S.K., Ballesteros Canovas, J.A., Randhawa, S.S., Singh, A.K., Huggel C., STOFFEL, M., **in press**. Translating the concept of climate risk into an assessment framework to inform adaptation planning: Insights from a pilot study of flood risk in Himachal Pradesh, Northern India. *Environmental Science and Policy*.
- [226] Tamkevičiūtė, M., Edvardsson, J., Pukienė, R., Taminskas, J., STOFFEL, M., Corona, C., Kibirkštis, G., **in press**. Scots pine (*Pinus sylvestris* L.) based reconstruction of 130 years of water table fluctuations in a peatland and its relevance for moisture variability assessments. *Journal of Hydrology*.
- [225] Arbella, E., Jarvis, I., Chavardès, R.D., Daniels, L.D., STOFFEL, M., **in press**. Tree-ring proxies of larch bud moth defoliation: latewood width and blue intensity are more precise than tree-ring width. *Tree Physiology*.

- [224] Moos, C., Fehlmann, M., Trappmann, D., STOFFEL, M., Dorren, L., **in press**. Integrating the mitigating effect of forests into quantitative rockfall risk analysis. *International Journal of Disaster Risk Reduction*.
- [223] Stančikaitė, M., Gedminienė, L., Edvardsson, J., STOFFEL, M., Corona, C., Gryguc, G., Uogintas, D., Zinkutė, R., Skuratovič, Z., Taraškevičius, R., **in press**. Holocene vegetation and hydroclimatic dynamics in SE Lithuania – implications from a multi-proxy study of the Čepkeliai bog. *Quaternary International*.
- [222] Galia, T., Ruiz-Villanueva, V., Tichavský, R., Šilhán, K., STOFFEL, M., **in press**. Characteristics and abundance of large and small instream wood in a Carpathian mixed-forest headwater basin. *Earth Surface Processes and Landforms*.
- [221] Erokhin, S., Zaginaev, V., Meleshko, A., Ruiz-Villanueva, V., Petrakov, D., Chernomorets, S.S., Viskhadzhieva, K., Tutubalina, O.V., STOFFEL, M., **in press**. Debris flows triggered from non-stationary glacier lake outbursts: the case of the Teztor Lake complex (Northern Tian-Shan, Kyrgyzstan). *Landslides*.
- [220] Guillet, S., Corona, C., Ludlow, F.M., Churakova (Sidorova), O., Oppenheimer, C., STOFFEL, M., **in press**. Climatic impacts of the «forgotten» 1109 CE volcanic eruption. *Nature Scientific Reports*.
- [219] Morel, P., Corona, C., Lopez Saez, J., Rovéra, G., Dewez, T.J.B., STOFFEL, M., Berger, F., **in press**. Quantification of cliff retreat in coastal Quaternary sediments using anatomical changes in exposed tree roots. *Earth Surface Processes and Landforms*.

2018

- [218] Moos, C., Bebi, P., Schwarz, M., STOFFEL, M., Sudmeier, K., Dorren, L., 2018. Ecosystem-based disaster risk reduction in mountains. *Earth-Science Reviews* **177**, 497–513.
- [217] Paul, J., Buytaert, W., Allen, S., Ballesteros, J., Bhusal, J., Cieslik, K., Clark, J., Dugar, S., Hannah, D., STOFFEL, M., Dewulf, A., Dhital, M., Liu, W., Nayaval, J. L., Neupane, B., Schiller, A., Smith, P., Supper, R., 2018. Citizen science for hydrological risk reduction and resilience building. *WIREs Water* **5**, e1262.
- [216] de Haas, T., Densmore, A., STOFFEL, M., Suwa, H., Imaizumi, F., Ballesteros Cánovas, J.A., Wasklewicz, T., 2018. Avulsions and the spatio-temporal evolution of debris-flow fans. *Earth-Science Reviews* **177**, 53–75.

2017

- [215] Bhattacharyya, A., STOFFEL, M., Shekhar, M., Ballesteros Cánovas, J.A., Trappmann, D., 2017. Dendrogeomorphic potential of the Indian Himalayas – case studies of process dating of natural hazards in Kullu valley, Himachal Pradesh. *Current Science* **113**, 2317–2324.
- [214] Madrigal-González, J., Ballesteros-Cánovas, J.A., Herrero, A., Ruiz-Benito, P., STOFFEL, M., Lucas-Borja, M.E., Sancho-García, C., Zavala, M.A., 2017. Forest productivity in southwestern Europe controlled by coupled North Atlantic and Atlantic Multidecadal Oscillations. *Nature Communications* **8**, 2222.
- [213] Zhang, Y., Tian, Q., Guillet, S., STOFFEL, M., 2017. 500-yr precipitation variability in Southern Taihang Mountains, China, and its linkages to ENSO and PDO. *Climatic Change* **144**, 419–432.
- [212] Lopez-Saez, J., Morel, P., Corona, C., Bommer-Dennis, B., Schlunegger, F., Berger, F., STOFFEL, M., 2017. Tree-ring reconstruction of reactivation phases of the Schimbrig landslide (Swiss Alps). *Géomorphologie* **23**, 265–276.
- [211] Favillier, A., Mainieri, R., Lopez Saez, J., Berger, F., STOFFEL, M., 2017. Dendrogeomorphic assessment of rockfall recurrence intervals at Saint Paul de Varces, Western French Alps. *Géomorphologie* **23**, 109–119.
- [210] Kundzewicz, Z., STOFFEL, M., Wyżga, B., Ruiz-Villanueva, V., Ballesteros-Cánovas, J.A., Niedźwiedź, T., Kaczka, R., Pińskwar, I., Łupikasza, A., Zawiejska, J., Mikuś, P., Choryński, A., 2017. Changes of flood risk on the northern foothills of the Tatra Mountains. *Geophysica Acta* **65**, 799–807.
- [209] Bodoque, J.M., Ballesteros-Cánovas, J.A., Rubiales, J.M., Perucha, M.A., Nadal-Romero, E., STOFFEL, M., 2017. Quantifying soil erosion from hiking trail in a protected natural area in the Spanish Pyrenees. *Land Degradation and Development* **28**, 2255–2267.

- [208] Favillier, A., Guillet, S., Morel, P., Corona, C., Lopez Saez, J., Eckert, N., Ballesteros Cánovas, J.A., Peiry, J.-L., STOFFEL, M., 2017. Disentangling the impacts of exogenous disturbances on forest stands to assess multi-centennial tree-ring reconstructions of avalanche activity in the upper Goms Valley (Canton of Valais, Switzerland). *Quaternary Geochronology* **42**, 89–104.
- [207] Tichavsky, R., STOFFEL M., Silhan, K., 2017. Age-dependent sensitivity of trees disturbed by debris flows – implications for dendrogeomorphic reconstructions. *Quaternary Geochronology* **42**, 63–75.
- [206] Galia, T., Šilhán, K., Ruiz-Villanueva, V., Tichavský, R., STOFFEL, M., 2017. Temporal dynamics of instream wood in headwater streams draining mixed Carpathian forest. *Geomorphology* **292**, 35–46.
- [205] Franco-Ramos, O., STOFFEL, M., Vázquez-Selem, L., 2017. Tree-ring based reconstruction of rockfalls at Cofre de Perote volcano, Mexico. *Geomorphology* **290**, 142–152.
- [204] Fazan, L., Guillet, S., Corona, C., Kozłowski, G., STOFFEL, M., 2017. Imprisoned in the Cretan mountains: how relict *Zelkova abelicea* (Ulmaceae) trees cope with Mediterranean climate. *Science of the Total Environment* **599–600**, 797–805.
- [203] Petrov, M.A., Sabitov, T.Y., Tomashevskaya, I.G., Glazirin, G.E., Chernomorets, S.S., Savernyuk, E.A., Tutubalina, O.V., Petrakov, D.A., Sokolov, L.S., Dokukin, M.D., Mountrakis, G., Ruiz-Villanueva, V., STOFFEL, M., 2017. Glacial lake inventory and lake outburst potential in Uzbekistan. *Science of the Total Environment* **592**, 228–242.
- [202] Ruiz-Villanueva, V., Wyzga, B., Mikuś, P., Hajdukiewicz, M., STOFFEL, M., 2017. Large wood clogging during floods in a gravel-bed river: The Długopole bridge in the Czarny Dunajec River, Poland. *Earth Surface Processes and Landforms* **42**, 516–530.
- [201] Francon, L., Corona, C., Roussel, E., Lopez Saez, J., STOFFEL, M., 2017. Warm summers and moderate winter precipitation boost *Rhododendron ferrugineum* L. growth in the Taillefer massif (French Alps). *Science of the Total Environment* **586**: 1020–1031.
- [200] Ballesteros-Cánovas, J.A., STOFFEL, M., Martín-Duque, J.F., Corona, C., Lucía, A., Bodoque, J.M., Montgomery, D. R., 2017. Gully evolution and geomorphic adjustments of badlands to reforestation. *Nature Scientific Reports* **7**: 45027.
- [199] Ruiz-Villanueva, V., STOFFEL, M., 2017. Frederick J. Swanson’s 1976-1979 papers on the effects of instream wood on fluvial processes and instream wood management. *Progress in Physical Geography* **41**, 124–133.
- [198] Ruiz-Villanueva, V., Allen, S., Arora, M., Goel, N.K., STOFFEL, M., 2017. Recent catastrophic landslide lake outburst floods in the Himalayan mountain range. *Progress in Physical Geography* **41**, 3–28.
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