Scientific Publications ALPFOR [February 2016]

Scientific publications on research performed at the Alpine Research and Education Station (ALPFOR) Furkapass, Switzerland 2440 m.

The below list contains all publications that contain data collected at ALPFOR. Publications that emerged from ALPFOR activities (reviews, synthesis papers), international networking closely associated with ALPFOR (e.g., GMBA-DIVERSITAS), or which became reality due to grants acquired by the ALPFOR-team (e.g. SNF VALUrsern) and relate to themes initiated by ALPFOR but were performed by other research groups are labelled with an * (16 publications). The list (ordered alphabetically) includes early research performed at Furka pass, before ALPFOR gained formal responsibility of the station buildings.

**Publications (69)**


*Bühlmann T, Hiltbrunner E, Körner C (2013) Die Verbuschung des Alpenraums durch die Grünerle. FactSheet, Schweizerische Akademie der Wissenschaften


Bühlmann T, Körner C, Hiltbrunner (2016) Shrub expansion of Alnus viridis drives former montane grassland into nitrogen saturation. Ecosystems, accepted


Körner C, Diemer M (1994) Evidence that plants from high altitudes retain their greater photosynthetic efficiency under elevated CO2. Funct Ecol 8:58-68


Monteiro A, Fava F, Hiltbrunner, E, Bocchi S. 2011. Mapping of land cover changes and GIS-based logistic regression on spatial variables revealed considerable
loss of permanent meadows in the lowlands of Italian Valtellina valley. Journal Landscape and Urban Planning 100: 287-294


Scherrer D, Schmid S, Körner C 2010: Elevational species shifts in a warmer climate are overestimated when based on weather station data. Intern J of Biometeorology 55:645-654


Books strongly influenced by, and containing data from ALPFOR/Furkapass (6)


PhD Projects at ALPFOR/Furkapass (9)
Ægisdóttir Hafties
Bühlmann Tobias
Inauen Nicole
Kuss Patrick
Nagelmüller Sebastian (ongoing)
Schäppi Bernd
Scherrer Daniel
Schmid Samuel (ongoing)
Van den Bergh Thijs (ongoing)

Master’s Projects at ALPFOR/Furkapass (33)
Arnaiz Jonas (2015)
Bandurski Katja 2003
Barmettler Edith 2009
Blumer Pascal 1994
Bockmühl Petra 1995
Bohni Rebecca (ongoing)
Bühlmann Tobias 2010
Burkhard Stephan 2008
Ehrsam Kristina 2008
Franzen Julia 2007
Gilgen Anna 2004
Gross Thomas 2012
Heer Claudia 2000
Hefel Christian 2007
Huck Corinne 2009
Inauen Nicole 2008
Krummen Beatrice (ongoing)
Lischer Esther 2010
Mazlum Dorothe 2003
*Merz Andreas 2008
Möhl Patrick (ongoing)
Nagel Rebecca 2009
Mullis Christoph 2014
Nagelmüller Sebastian 2012
Schneiter Sorin 1997
Schreier Florian 2013
Streule Lea 2013
Truntschke Judith 2010
Wagner Melanie 2008
Waldmeier Thomas 2012
Wütherich Katharina 2006
Von Riedmatten Lars 2007
Zehnder Tobias 2012
*One together with Schmid S
*One together with C. Buhk

Kurse (29)
University of Basel (Botany), so far 9
ZH-BS Plant Science Center, so far 4
University of Bern (Geography), so far 4
VBS, Lehrlingsausbildung, so far 6
Basler Botanische Gesellschaft, so far 2
Naturforschende Gesellschaft Uri, so far 1
Family Expeditions, so far 3

Institutional retreats (7)
ICAS (Scnat)
SAGW
Rektorat Universität Basel
Zoologie Universität Basel
Botanik Universität Basel (2x)
VALUrsern core team (SNF)

Conferences (5)
ESF- N2-fixing Symposium CLIMMANI
GMBA (Diversitas) Chandolin-Annex
Hotspot-Furka (BAFU/ALPFOR/GMBA)
Historiker Tagung
Quellentreffen BAFU, Kantone, etc
International research cooperations (10)
University of Toronto (R. Sage)
University of Grenoble (S. Lavorel)
University of Innsbruck (U. Tappeiner, G. Wohlfahrt)
University of Trier
University of Würzburg
University of Antwerp (H. De Boeck)
Agricultural University of Iceland (B. Sigurdsson)
Chinese Academy of Sciences (H. Sun, Y. Yang, Yunnan)
Chinese Academy of Sciences (W. Ning, L Peng, Chengdu)
Hemholtz Center Leipzig (W. Durka)
Ilia University (G. Nakhuzrishvili, Tbilisi)

National collaborations (7)
University of Bern (H. Veit, M. Fischer)
ZH-BS Plant Science Center
WSL (Birmensdorf)
EMPA/ETH (Materialwissenschaften)
PSI (R. Siegwolf)
BAFU (B. Achermann)
Forschungsstelle für Umweltbeobachtung FUB

e-Learning tool ALPANINO
This electronic course on alpine plant ecology was originally designed as ALPECOLe as part of virtual campus Schweiz in cooperation with University of Zürich. The contributions by ALPFOR that dominated that course were re-edited in 2008 as ALPANDINO in both English and Spanish in cooperation with DEZA. Its contents reflect research experience at ALPFOR. The course is currently used for preparation by participants of the Alpine Plant Ecology Summer School at ALPFOR.

→ www.alpandino.org

Summary of ALPFOR achievements
69 Scientific publications
6 Scientific Books
29 Courses
35 MSc students
9 PhD students
7 National collaborations
10 International collaborations
7 Institutional retreats
5 International conferences
1 e-learning course

800 overnight stays per year