

Snowpack characteristics on steep frozen rock slopes

Marcia Phillips^{*1}, Anna Haberkorn^{1,2}, Hansueli Rhyner¹

¹WSL Institute for Snow and Avalanche Research SLF, Fluelastrasse 11, CH-7260 Davos Dorf

²Unit of Geography, Department of Geosciences, University of Fribourg, ch. du Musée 4, CH-1700 Fribourg









*Corresponding author: phillips@slf.ch

Supplementary material:

20 snow profiles (Figures S1-S20) presented according to time of winter, as in Table 1 (see paper):

(Note: the 7 profiles which are presented in the paper are not shown below).

Table S1: Legend (colours and symbols) for the snow grain shapes shown in Figures S1-S20.

Grain shape class	Colour	Symbol
Precipitation particles		+
Decomposing/Fragmented particles		/
Rounded grains		●
Faceted crystals		□
Depth hoar		^
Melt forms/melt-freeze crusts		○ ○○
Ice		■
Graupel		⚡

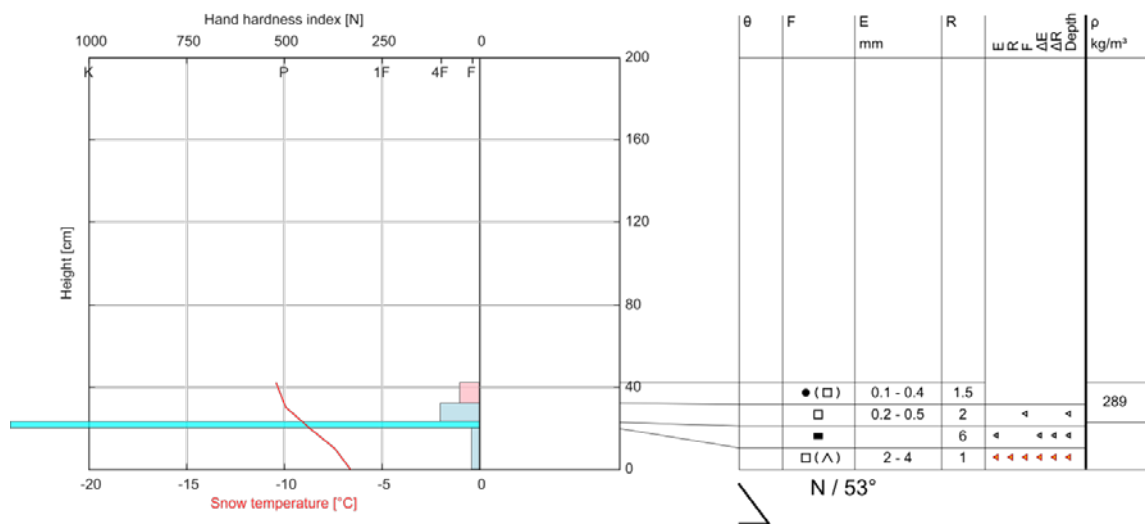


Figure S1 : Snow profile at Jungfrauoch Sphinx, N slope, 3532 m, 53° (21 Nov. 2012)

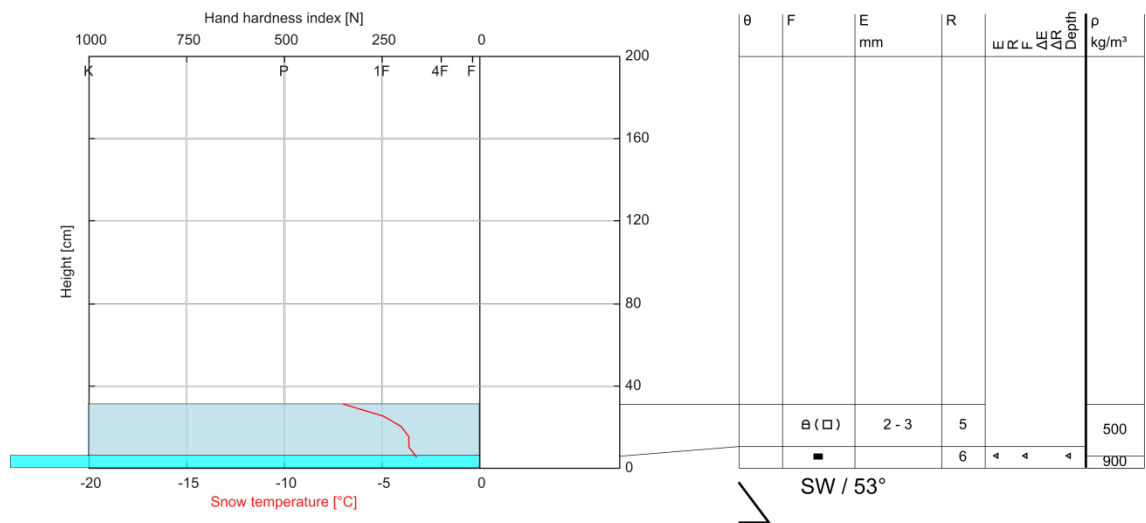


Figure S2 : Snow profile at Jungfrauoch Sphinx, S slope, 3480 m, 63° (21 Nov. 2012)

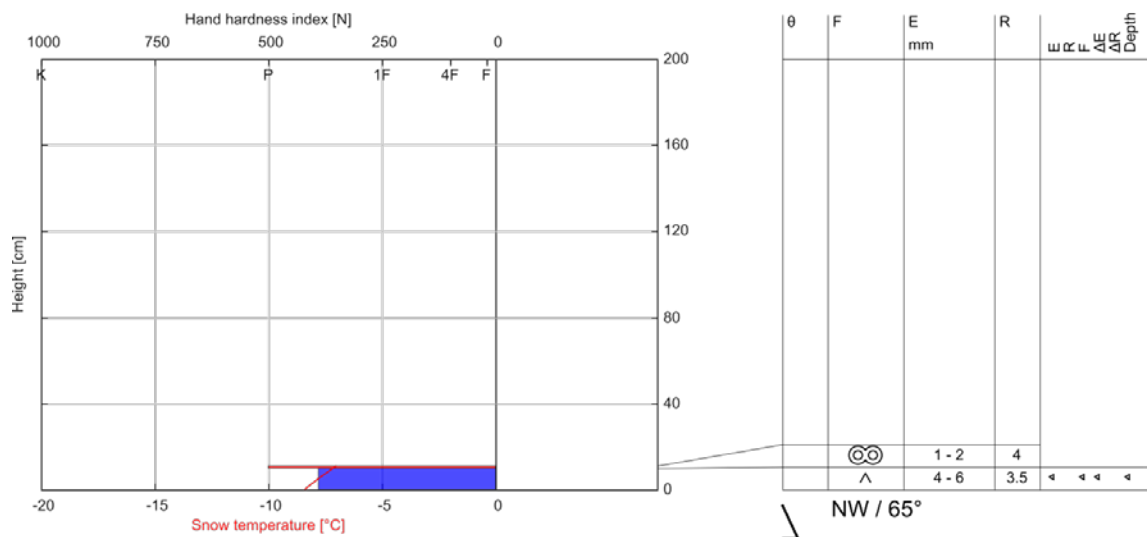


Figure S3: Snow profile at Jungfrauoch Sphinx, N slope, 3548 m, 65° (21 Nov. 2012)

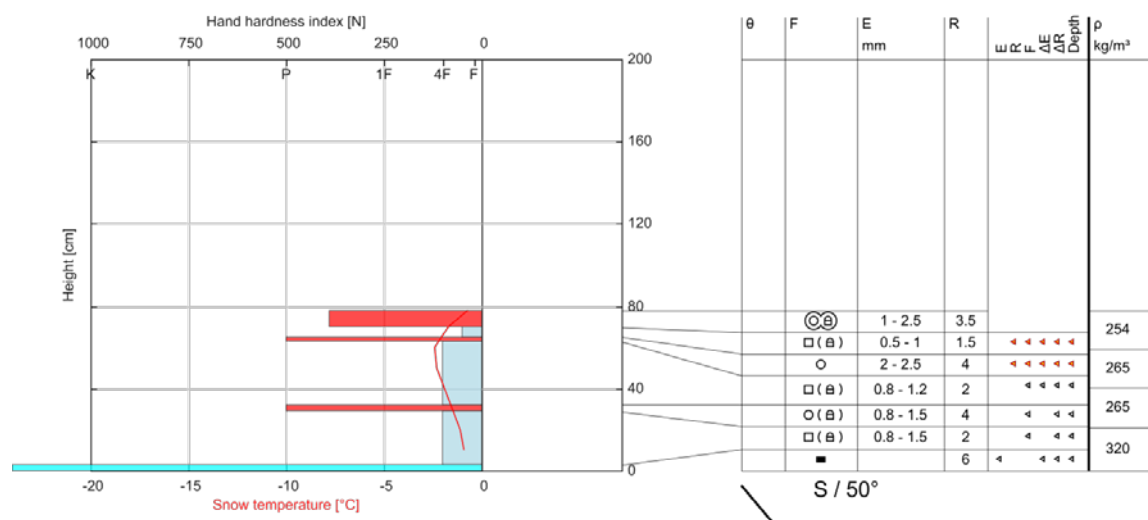


Figure S4 : Snow profile at Gemsstock, S slope, 2927 m, 50° (9 Jan. 2013)

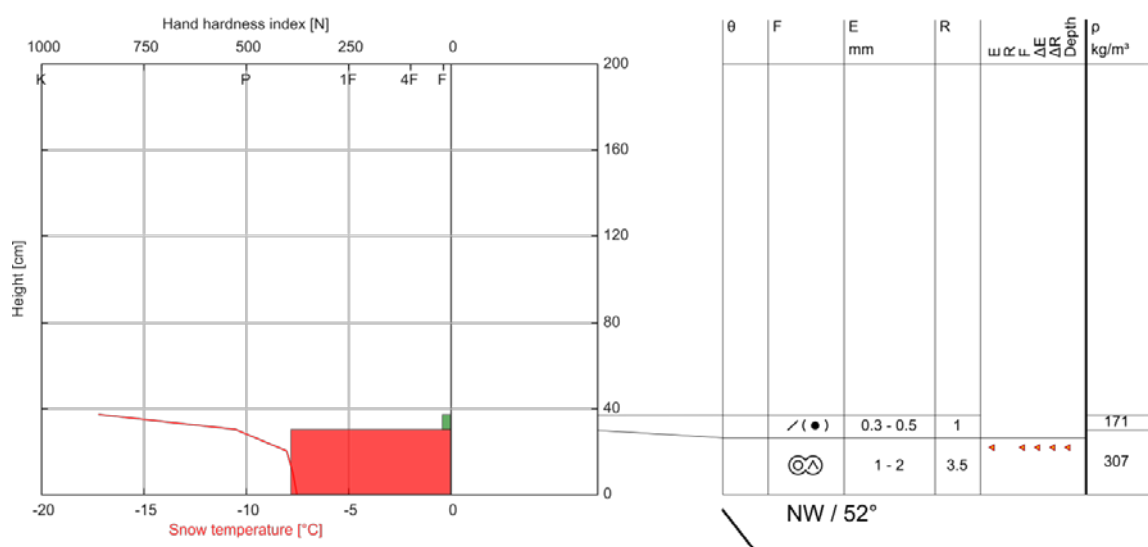


Figure S5 : Snow profile at Gemsstock, N slope, 2940 m, 52° (28 Jan. 2014)

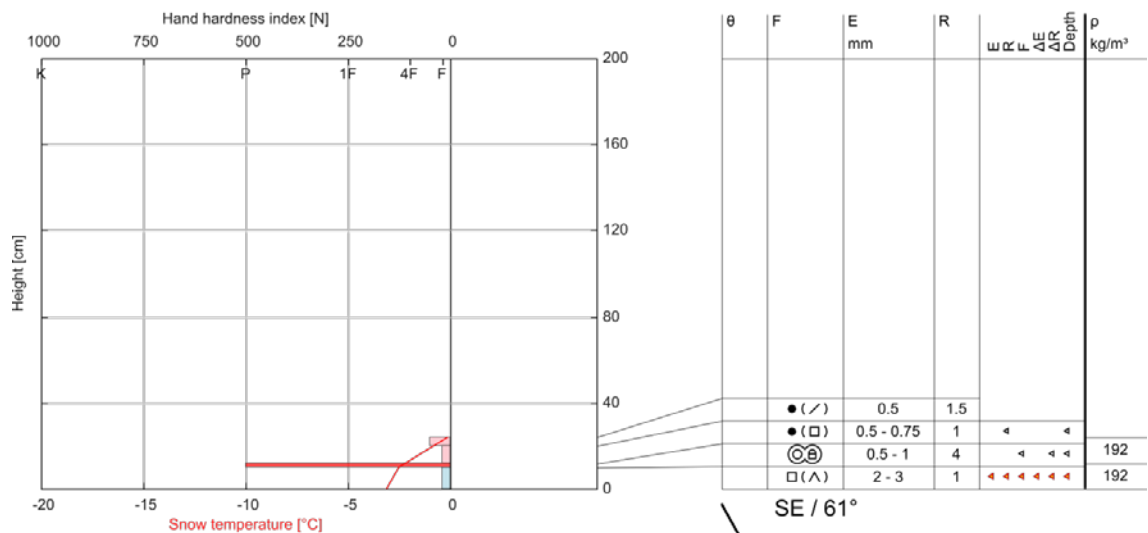


Figure S6: Snow profile at Gemsstock, S slope, 2922 m, 61° (28 Jan. 2014)

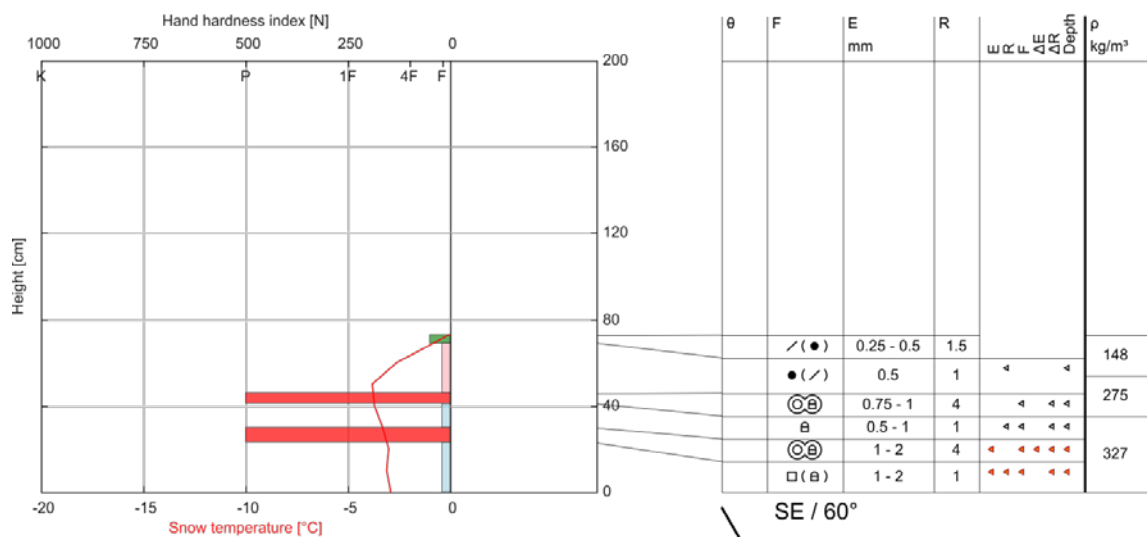


Figure S7: Snow profile at Gemsstock, S slope, 2926 m, 60° (28 Jan. 2014)

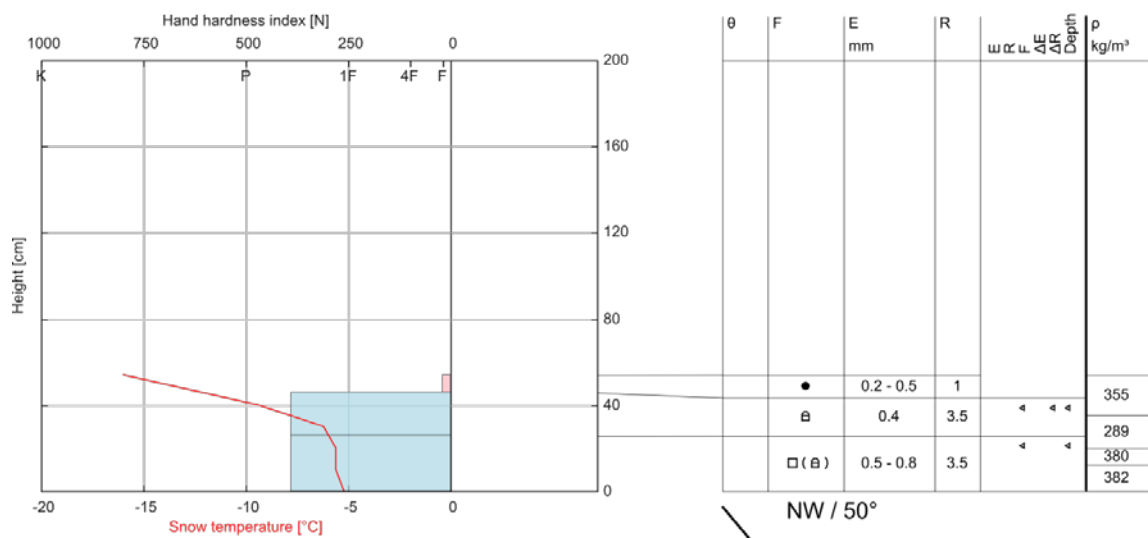


Figure S8: Snow profile at Gemsstock, N slope, 2926 m, 50° (28 Jan. 2014)

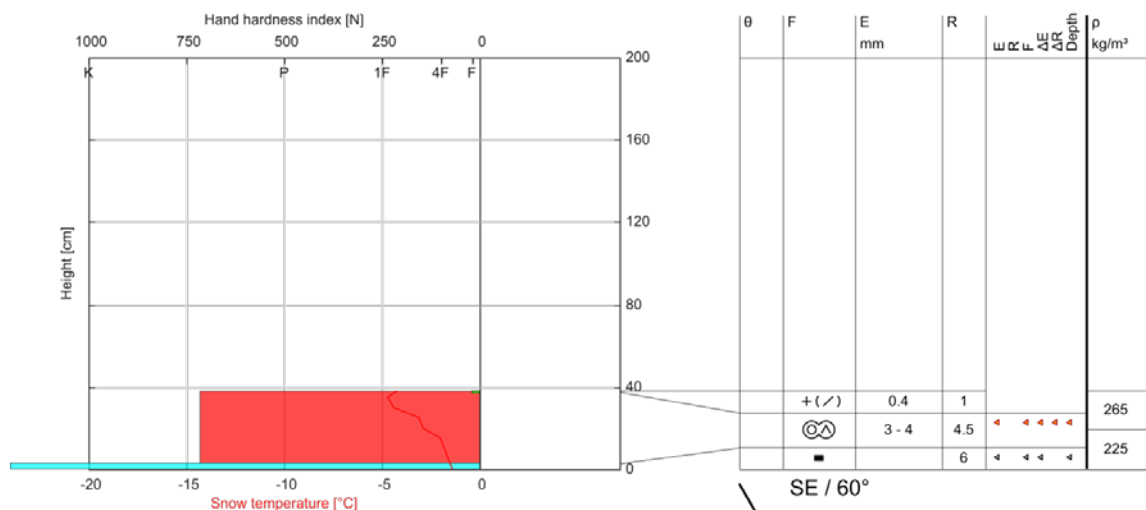


Figure S9 : Snow profile at Gemsstock, S slope, 2918 m, 60° (28 Feb. 2013)

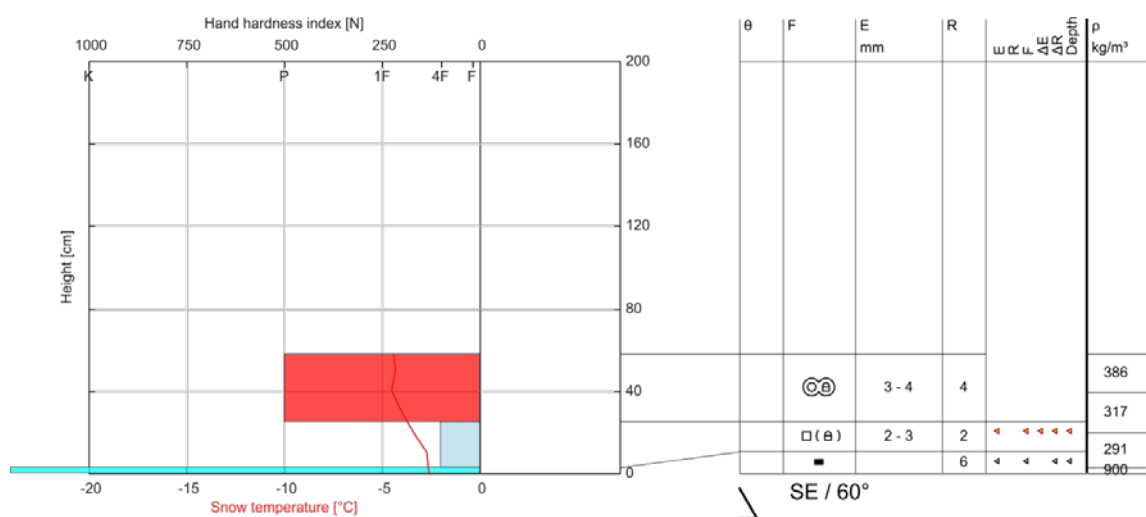


Figure S10: Snow profile at Gemsstock, S slope, 2927 m, 60° (28 Feb. 2013)

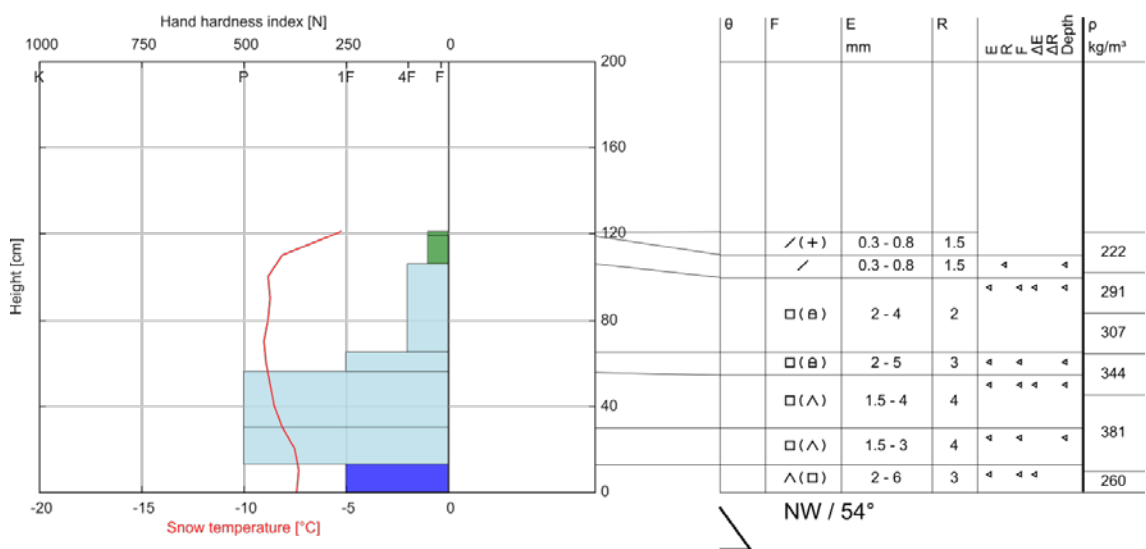


Figure S11: Snow profile at Gemsstock, N slope, 2915 m, 54° (28 Feb. 2013)

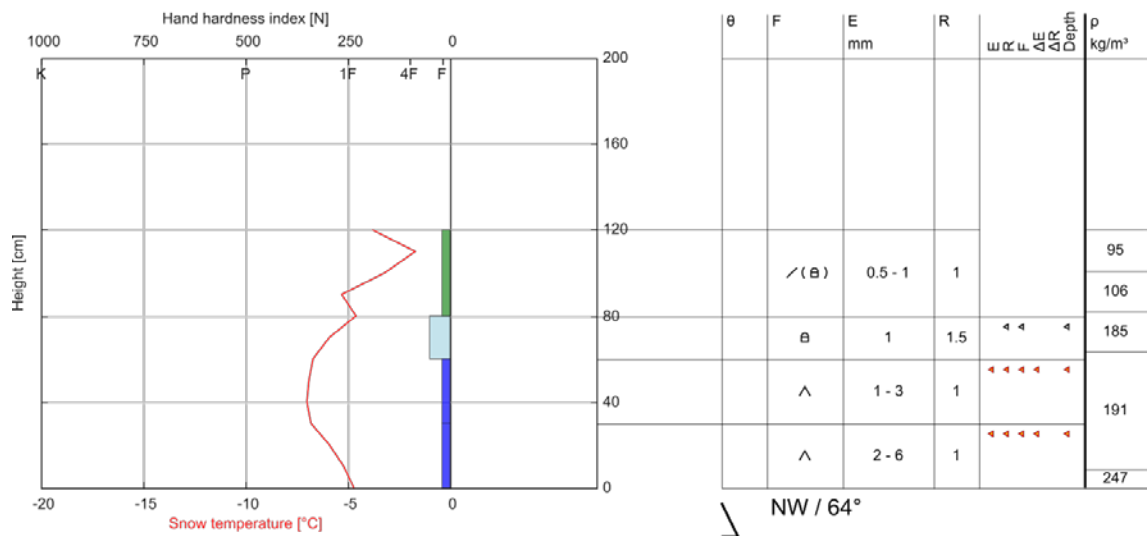


Figure S12: Snow profile at Gemsstock, N slope, 2921 m, 64° (28 Feb. 2013)

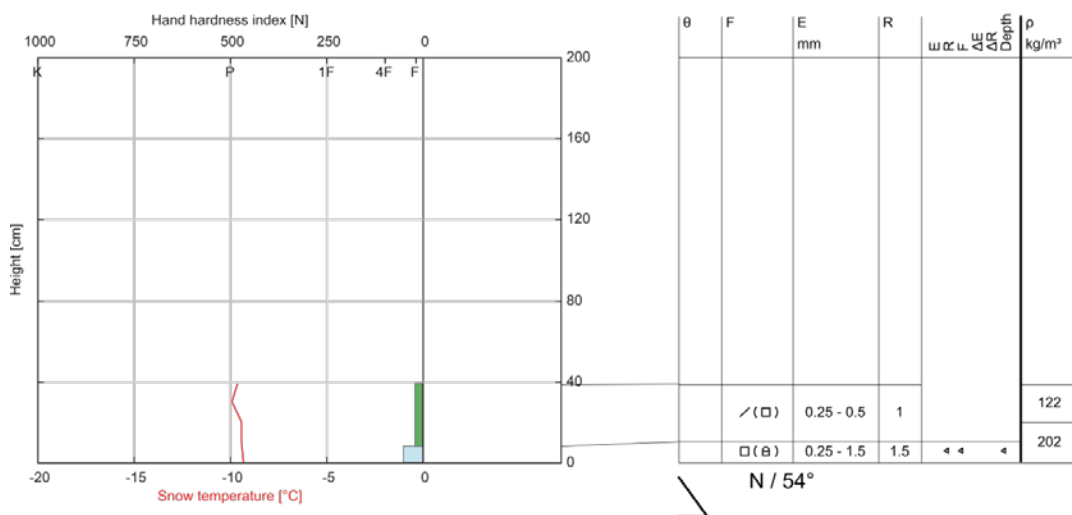


Figure S13: Snow profile at Jungfrauoch Sphinx, N slope, 3541 m, 54° (1 Apr. 2014)

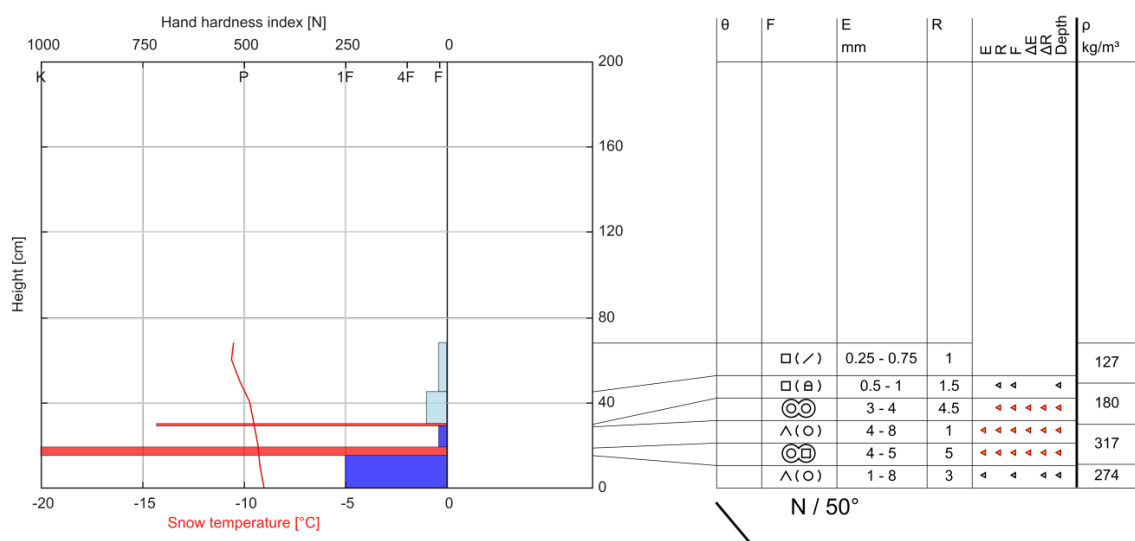


Figure S14: Snow profile at Jungfrauoch Sphinx, N slope, 3547 m, 50° (1 Apr. 2014)

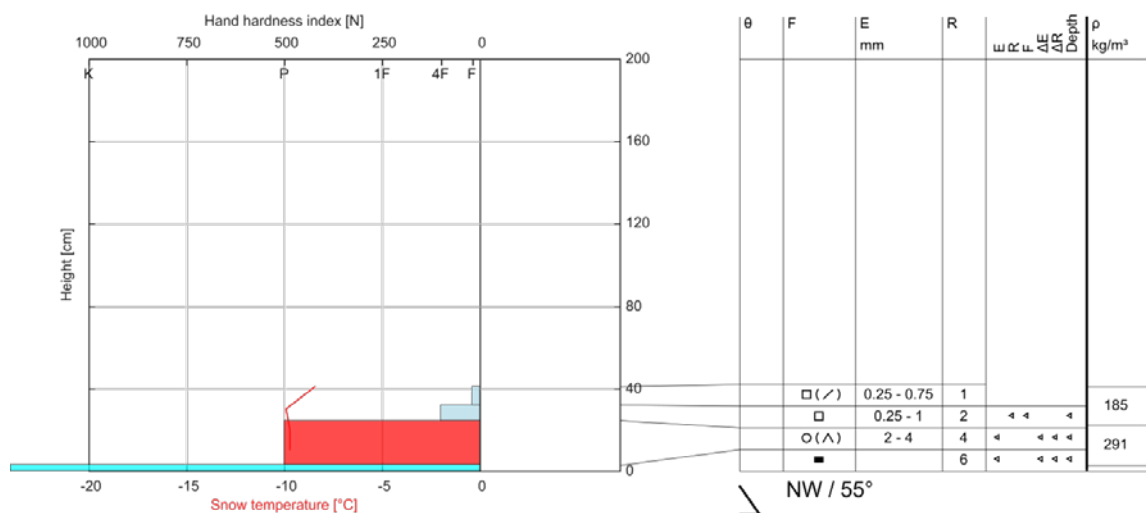


Figure S15: Snow profile at Jungfrauoch Sphinx, N slope, 3540 m, 55° (1 Apr. 2014)

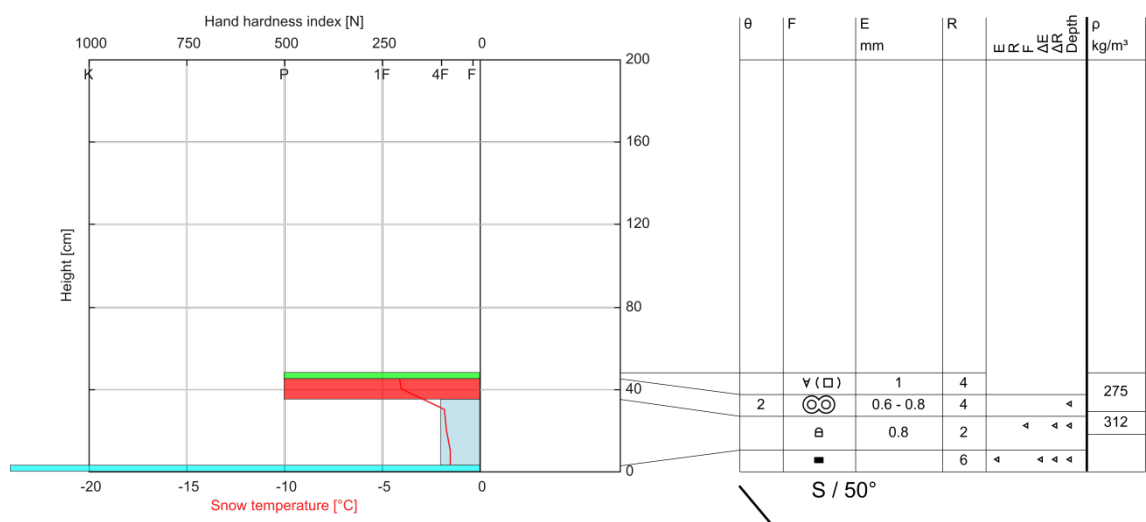


Figure S16: Snow profile at Jungfrauoch Sphinx, S slope, 3485 m, 50° (2 May 2013)

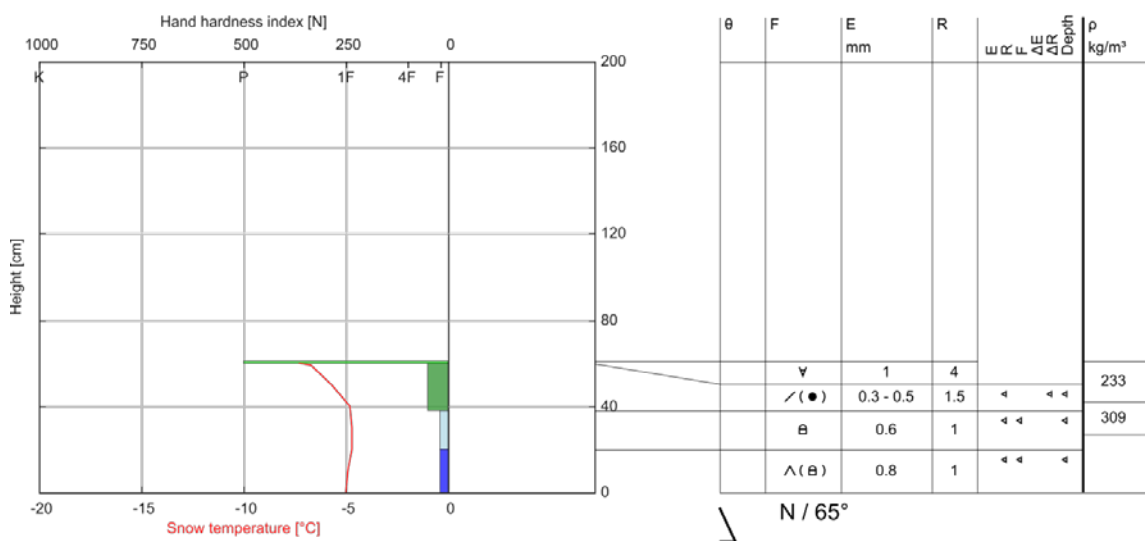


Figure S17: Snow profile at Jungfrauoch Sphinx, N slope, 3540 m, 65° (2 May 2013)

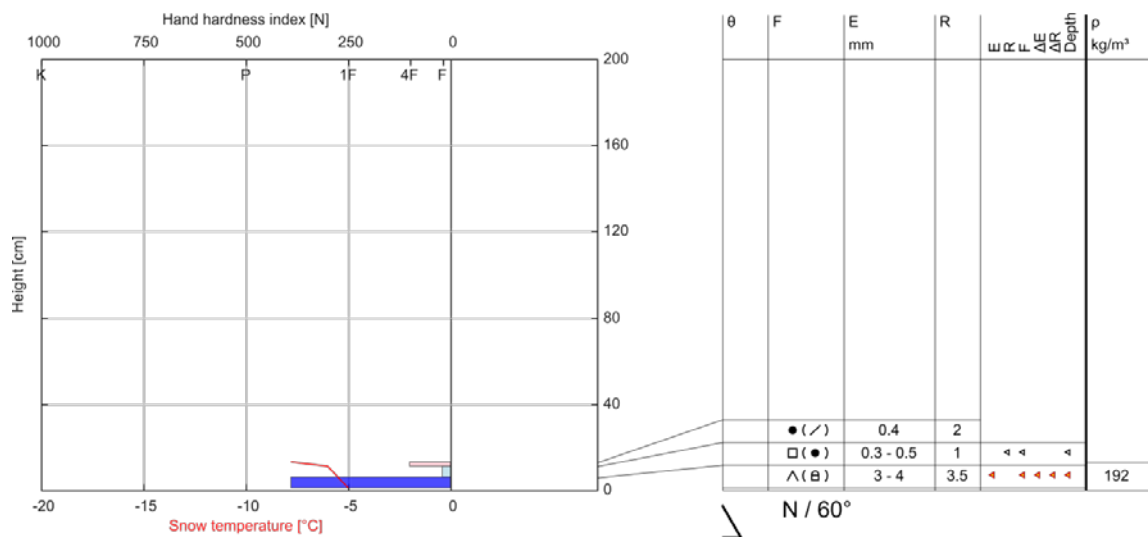


Figure S18: Snow profile at Jungfrauoch Sphinx, N slope, 3550 m, 60° (2 May 2013)

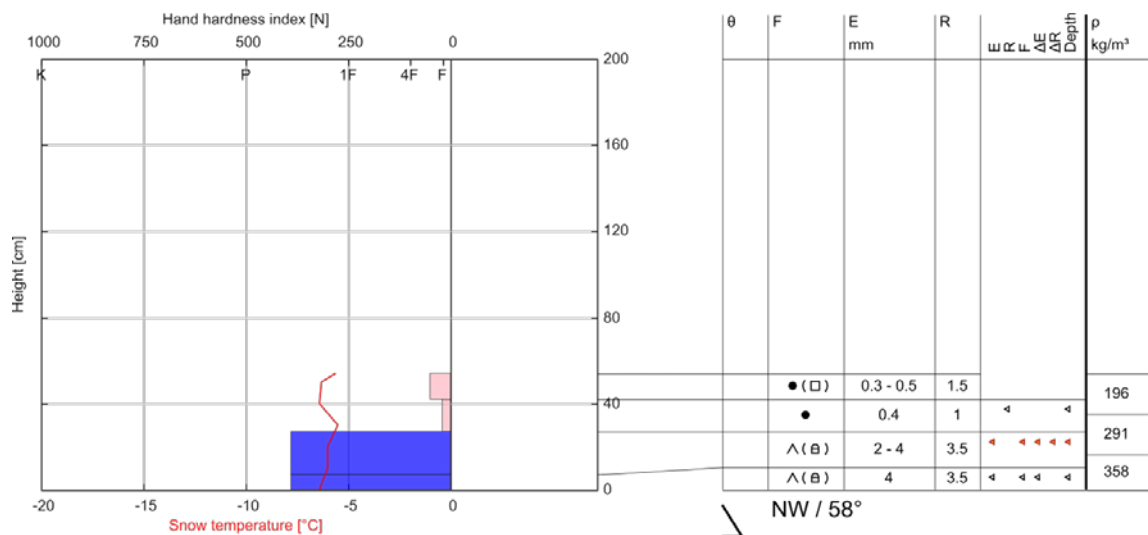


Figure S19: Snow profile at Jungfrauoch Sphinx, N slope, 3530 m, 58° (2 May 2013)

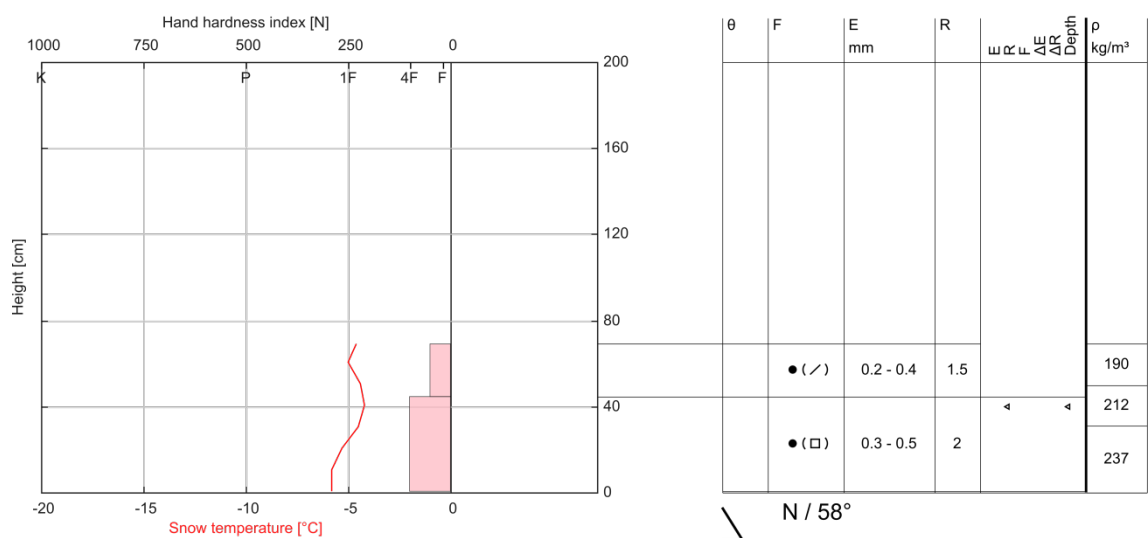


Figure S20: Snow profile at Jungfrauoch Sphinx, N slope, 3545 m, 58° (2 May 2013)