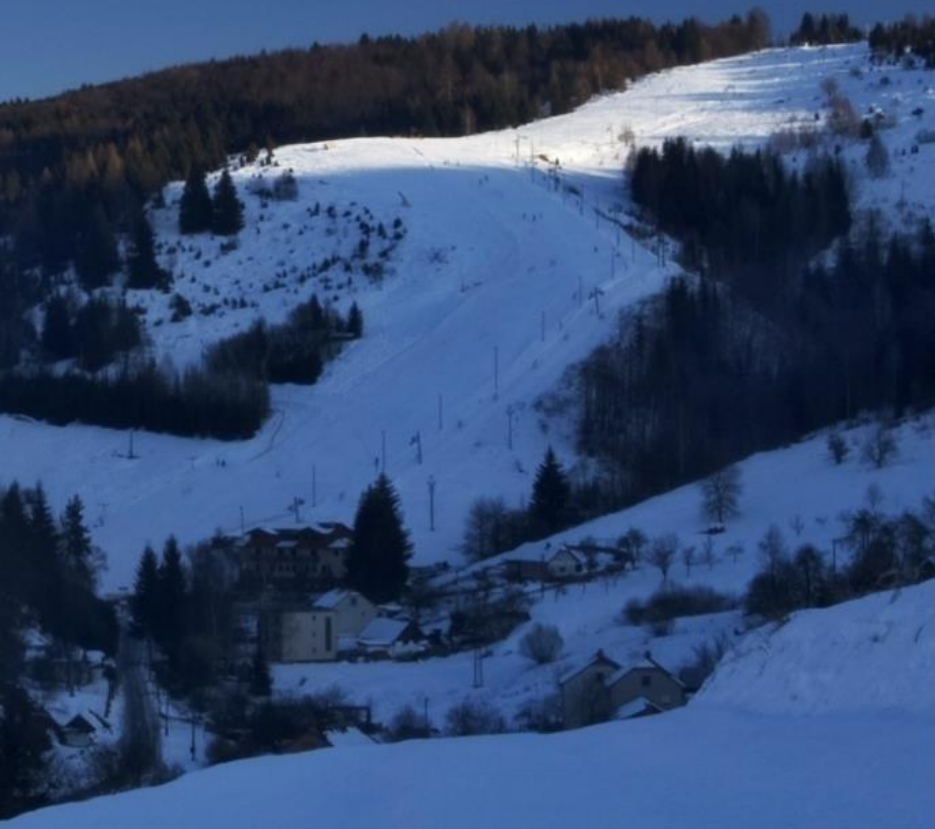


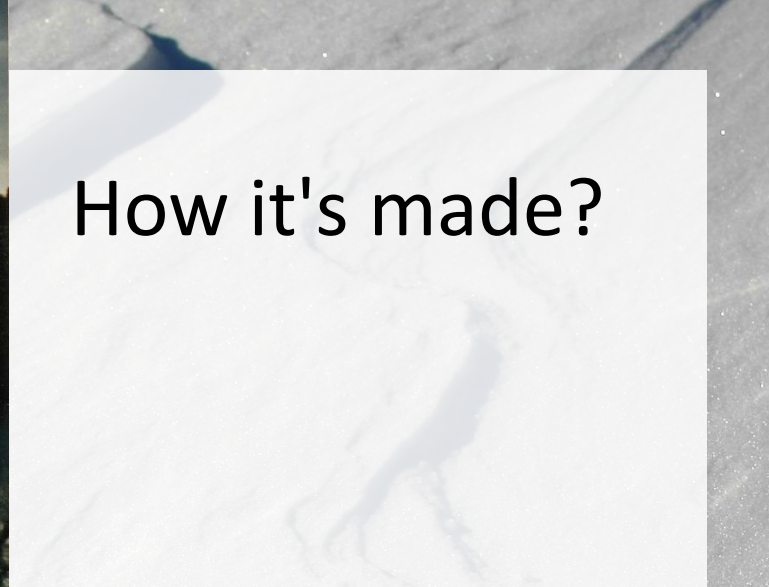
NATURAL vs. ARTIFICIAL SNOW



artificial



How it's made?



natural



artificial



natural



Chemical composition

	River Gelgia ¹⁾	Artificial snow ²⁾	Natural snow ³⁾	Precipi- tation ⁴⁾
pH	—	8.52	4.90	4.81
NO ₃ ³⁻	1.80	1.80	0.95	1.86
NH ₄ ⁴⁺	0.05	0.05	0.05	0.72
Na ⁺	2.40	—	—	0.11
Mg ²⁺	—	3.90 ³⁾	0.03	0.03
PO ₄ ³⁻	0.008	0.005	0.060	—
SO ₄ ²⁻	47.0	—	—	1.2
Cl ⁻	1.00	—	—	0.16
K ⁺	0.70	—	0.18	0.04
Ca ²⁺	—	7.4 ³⁾	0.5	0.3

(Kammer 2002)

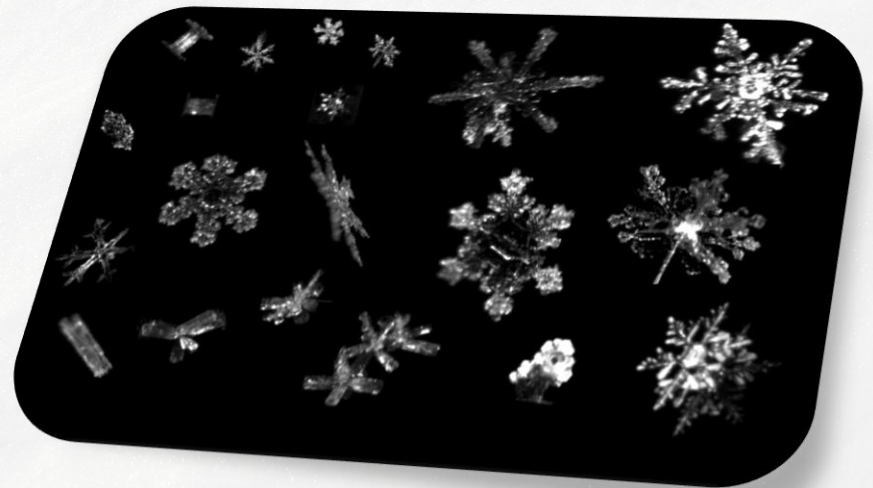
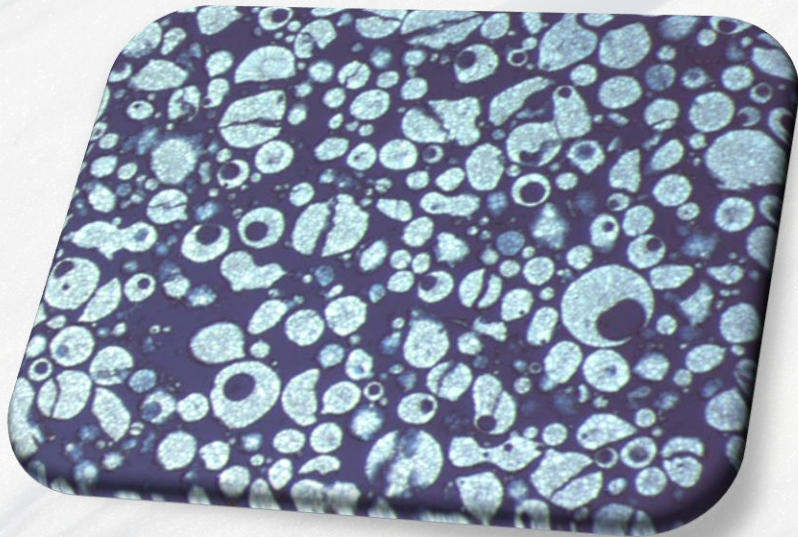
artificial



natural



Crystal shape



artificial



natural

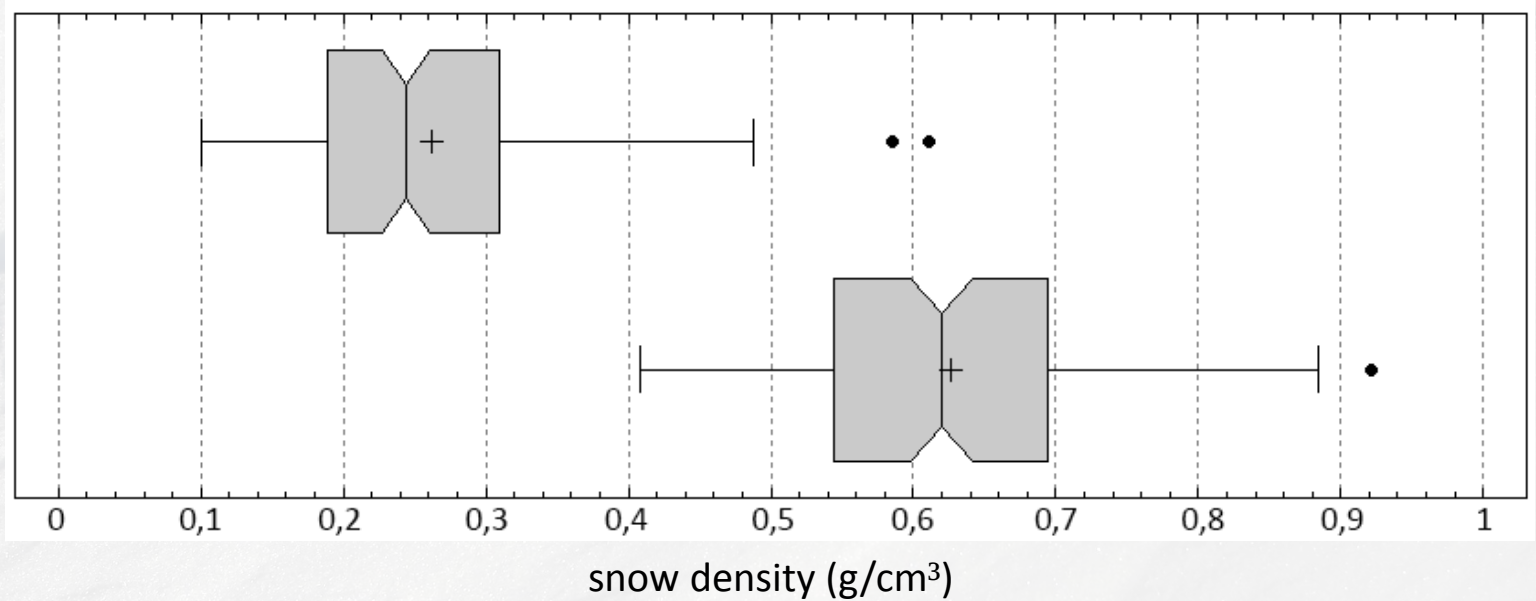


Snow density

Density of ice: $\rho = 0,9167 \text{ g/cm}^3$

natural
snow

artificial
snow



artificial



natural



artificial



natural



Snow depth



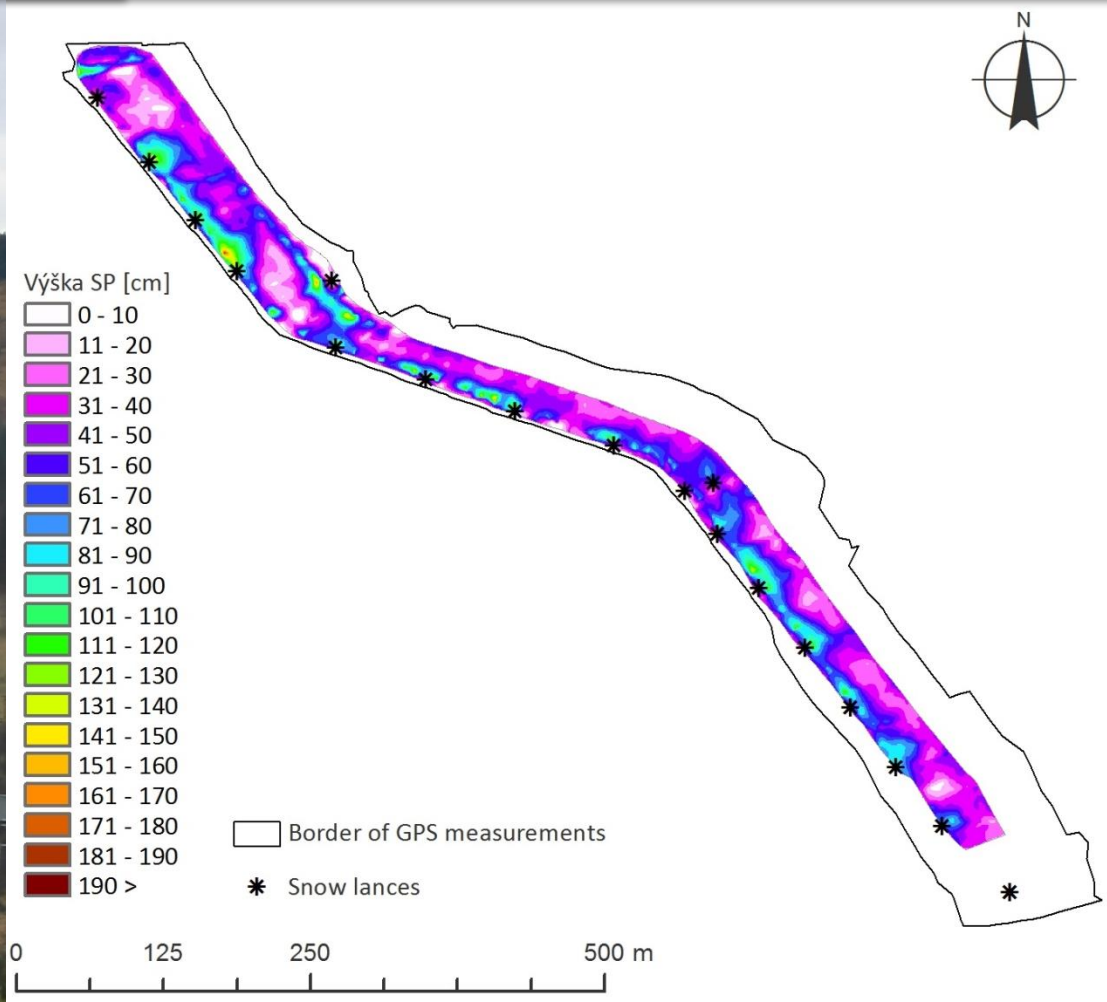
artificial



natural



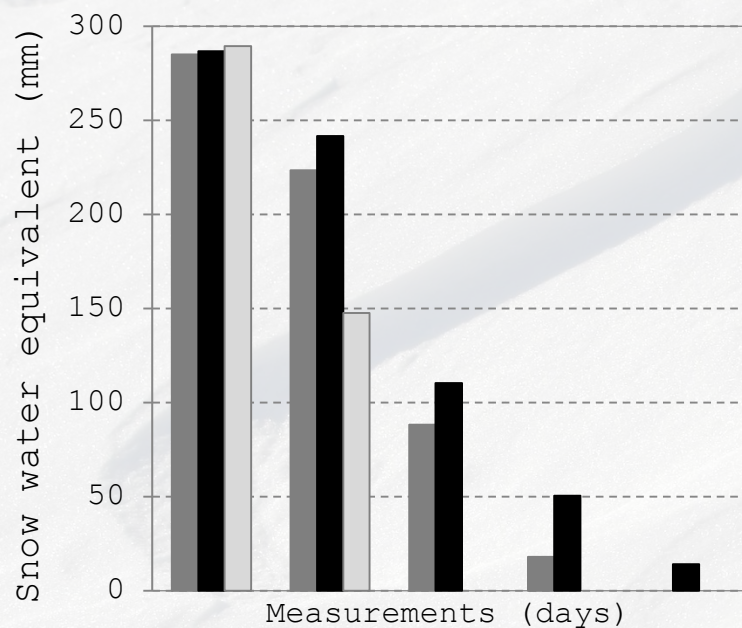
Snow depth



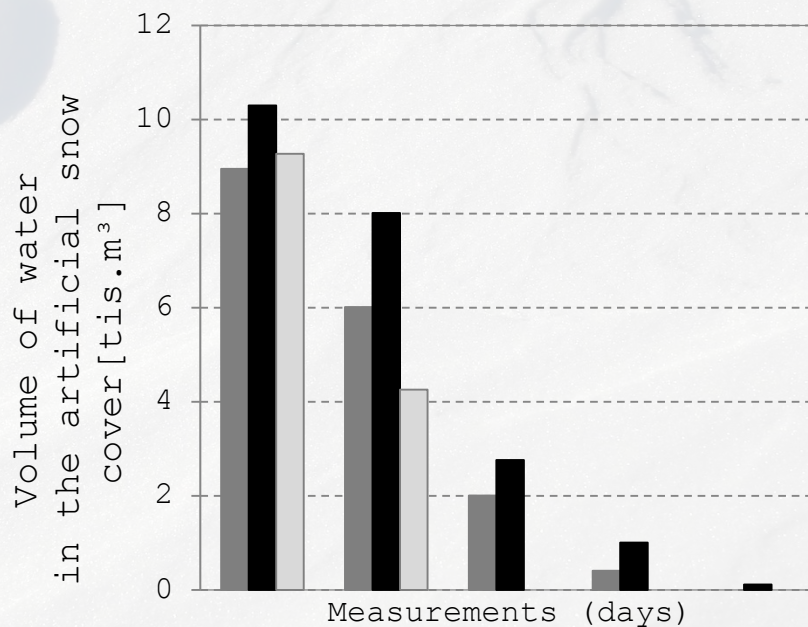
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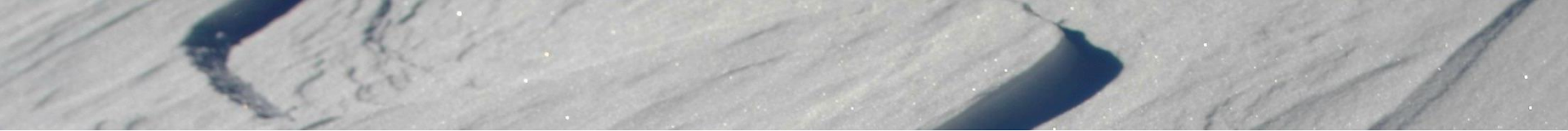
natural



- 2011 (22.03./29.03./05.04./12.04.)
- 2012 (13.03./19.03./27.03./03.04./10.04.)
- 2013 (10.04./17.04.)



Snow water
equivalent





Thanks for your attention.