

Supplement of Geosci. Model Dev., 7, 2733–2746, 2014
<http://www.geosci-model-dev.net/7/2733/2014/>
doi:10.5194/gmd-7-2733-2014-supplement
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Supplement of

SEHR-ECHO v1.0: a Spatially Explicit Hydrologic Response model for ecohydrologic applications

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Table S1. Surface runoff coefficients assigned to Swiss land use categories from the Geostat database (<http://www.geostat.admin.ch>) used to distribute the saturated hydraulic conductivity. This coefficient expresses how likely water is to runoff directly on on the given land use type. Similar land use types are grouped.

Number	Meaning	Runoff coefficient
11	Forest	0.1
12-14,18,19	Sparse and patchy forest	0.1
15-17	Shrub	0.1
33	Roads	0.7
49	Terrain around buildings	0.7
82,83	Meadow	0.2
85-88	Alpine tundra	0.2
89	Alpine tundra, rock-covered	0.4
90	Glacier, firn	0.9
91,92	Surface Water	1
95	Wetlands	0.9
97	Herbaceous vegetation	0.2
99	Rocks, rockfalls, sand	0.8

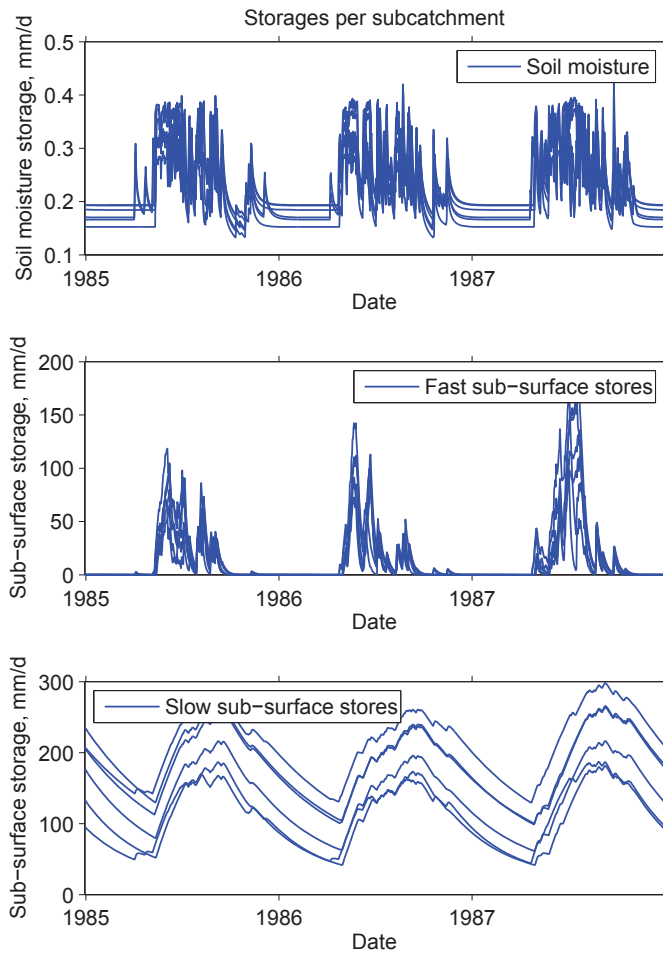


Fig. S1. Water storage evolution for subcatchments 1,6,7,17,18,19.

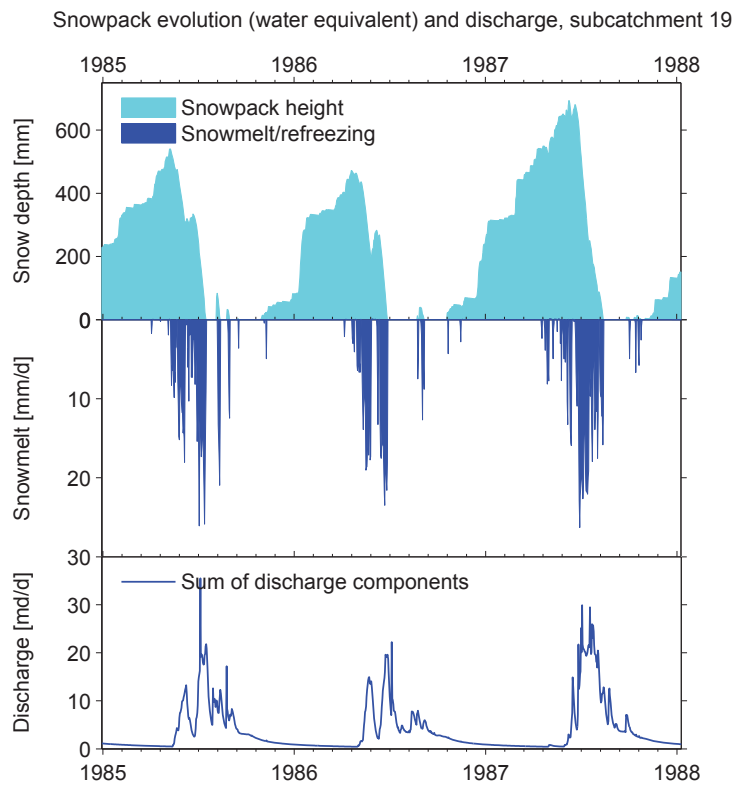


Fig. S2. Snowpack evolution, snowmelt and total discharge of subcatchment 19.