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## **Regional-scale inventory of periglacial moving landforms connected to the torrential network system**

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## Supplementary material

Landform location : coordinate lat/long (link)	Catchment name (class)	Valley	Landform type	Width (m)	Surface Velocity InSAR 2007- 2012 (m/y)	Velocity InSAR (2008- 2012)	Thickness (m)	Transit area (m <sup>2</sup> )	Sediment transfer rate (m <sup>2</sup> /y)	Sediment transfer rate (class) (m <sup>2</sup> /y)
<a href="#">46°08'20.157"N 7°49'03.571"E</a>	Bielzug 1 (A) - Gugla	Mattertal	Rock Glacier	100	6	cm/d	18	1440	6480	>1500
<a href="#">46°05'44.493"N 7°48'24.317"E</a>	Dorfbach 1 (A) - Grabengufer	Mattertal	Rock Glacier	120	10	cm/d	8	768	5760	>1500
<a href="#">46°04'53.968"N 7°59'22.753"E</a>	Furggbach 1 (B)	Saastal	Rock Glacier/Landslide	120	2	dm/m	15	1440	2160	>1500
<a href="#">46°06'54.290"N 7°36'39.761"E</a>	Zinal – Bordon (B)	Anniviers	Landslide	90	2.5	dm/m	15	1080	2025	>1500
<a href="#">46°07'19.369"N 7°48'57.528"E</a>	Geisstriftbach (A) - Dirru	Mattertal	Rock Glacier	40	6	cm/d	13	416	1872	>1500
<a href="#">46°02'46.809"N 7°30'23.357"E</a>	T. de Viau (B) - Tsarmine	Hérens	Rock Glacier	100	2	cm/d	15	1200	1800	>1500
<a href="#">46°08'02.134"N 7°39'27.034"E</a>	T. de Tracuit (B)	Anniviers	Rock Glacier	150	0.8	dm/m	20	2400	1440	500-1500
<a href="#">46°04'28.453"N 7°27'31.966"E</a>	T. de la Maresse (A)	Hérens	Rock Glacier	70	2	cm/d	15	840	1260	500-1500
<a href="#">46°08'04.645"N 7°39'22.758"E</a>	T. de Pétérey 1 (A)	Anniviers	Rock Glacier	90	1	dm/m	20	1440	1080	500-1500
<a href="#">46°01'50.165"N 7°25'40.280"E</a>	T. de la Cassorte 1 (A)	Heremence	Rock Glacier	90	1	cm/d	15	1080	810	500-1500
<a href="#">46°10'31.108"N 7°50'54.776"E</a>	Ritigraben (A)	Mattertal	Rock Glacier	70	1.3	dm/m	13	728	710	500-1500
<a href="#">46°04'52.797"N 7°48'26.533"E</a>	Wildibach 1 (A)	Mattertal	Rock Glacier	45	2.3	cm/d	10	360	621	500-1500
<a href="#">46°09'17.273"N 7°49'18.031"E</a>	Mittelberg (B)	Mattertal	Rock Glacier	65	1	cm/d	15	780	585	500-1500
<a href="#">46°09'03.438"N 7°49'11.546"E</a>	GrosseGrabe 1 (A)	Mattertal	Rock Glacier	70	1.3	cm/d	10	560	546	500-1500
<a href="#">46°06'09.681"N 7°28'03.929"E</a>	Evolène - La Niva (B)	Hérens	Landslide	200	0.3	dm/m	15	2400	540	500-1500
<a href="#">46°02'39.486"N 7°30'13.940"E</a>	T. de Perroc (B)	Hérens	Landslide	200	0.2	cm/m	20	3200	480	100-500
<a href="#">46°07'58.834"N 7°58'35.434"E</a>	Triftbach (B)	Saastal	Rock Glacier	50	1.1	dm/m	14	560	462	100-500
<a href="#">46°08'06.966"N 7°48'52.402"E</a>	Fallzug (A)	Mattertal	Landslide	250	0.3	cm/m	10	2000	450	100-500
<a href="#">46°07'50.230"N 7°35'12.477"E</a>	Rochers de Paris (B)	Moiry	Rock Glacier	50	1	cm/d	15	600	450	100-500
<a href="#">46°04'53.342"N 7°59'31.450"E</a>	Furggbach 2 (B)	Saastal	Landslide	120	0.4	cm/m	15	1440	432	100-500
<a href="#">46°08'36.906"N 7°49'16.229"E</a>	Bielzug 2 (A)	Mattertal	Landslide	150	0.6	cm/m	8	960	432	100-500
<a href="#">46°09'49.139"N 7°52'39.588"E</a>	Schweibbach (A)	Saastal	Rock Glacier	50	1.2	dm/m	12	480	432	100-500
<a href="#">46°03'59.615"N 7°50'12.454"E</a>	Täschbach 1 (B)	Mattertal	Push-Moraine	70	1	dm/m	10	560	420	100-500
<a href="#">46°09'04.058"N 7°57'06.774"E</a>	TeiffeGrabu (B)	Saastal	Rock Glacier	45	1	dm/m	15	540	405	100-500
<a href="#">46°08'01.203"N 7°38'53.482"E</a>	T. de Pétérey 2 (A)	Anniviers	Landslide	85	0.5	dm/m	15	1020	383	100-500
<a href="#">45°53'33.998"N 7°13'16.624"E</a>	T. Perche 1 (A)	Entremont	Rock Glacier	40	0.8	dm/m	15	480	288	100-500
<a href="#">46°07'01.595"N 7°25'05.028"E</a>	T. de Bajin (A)	Heremence	Rock Glacier	50	0.6	cm/m	15	600	270	100-500
<a href="#">46°05'40.743"N 7°48'44.838"E</a>	Dorfbach 2 (A)	Mattertal	Landslide	65	0.8	dm/m	8	416	250	100-500
<a href="#">46°10'55.014"N 7°52'41.610"E</a>	Eistbach (B)	Saastal	Rock Glacier	55	0.8	cm/m	9	396	238	100-500
<a href="#">46°01'52.600"N 7°25'35.249"E</a>	T. de la Cassorte 2 (A)	Heremence	Rock Glacier	65	0.4	dm/m	15	780	234	100-500
<a href="#">46°05'02.462"N 7°48'35.990"E</a>	Wildibach 2 (A)	Mattertal	Rock Glacier	65	0.6	dm/m	10	520	234	100-500
<a href="#">46°06'32.301"N 7°49'19.883"E</a>	Birchbach (B)	Mattertal	Rock Glacier	80	0.8	dm/m	6	384	230	100-500
<a href="#">46°03'56.940"N 7°16'58.726"E</a>	T. de Lourtier (B)	Bagnes	Landslide	250	0.1	cm/m	15	3000	225	100-500
<a href="#">46°09'02.935"N 7°57'07.229"E</a>	Rittmal (alpage) (B)	Saastal	Rock Glacier	30	0.8	dm/m	15	360	216	100-500
<a href="#">46°05'08.485"N 7°55'13.850"E</a>	Feevispa (B)	Saastal	Rock Glacier	40	0.9	dm/m	9	288	194	100-500
<a href="#">46°03'14.201"N 7°58'45.830"E</a>	Wanne (Mittelgrat) (B)	Saastal	Rock Glacier	50	0.9	dm/m	7	280	189	100-500
<a href="#">46°02'39.180"N 7°25'10.707"E</a>	T. des Rousses (A)	Heremence	Rock Glacier	60	0.5	dm/m	10	480	180	100-500
<a href="#">46°06'12.703"N 7°35'52.740"E</a>	T. de Gourga (B)	Moiry	Rock Glacier	50	0.5	dm/m	10	400	150	100-500
<a href="#">46°04'32.791"N 7°48'16.245"E</a>	Täschgufer (B)	Mattertal	Landslide	50	0.6	dm/m	8	320	144	100-500
<a href="#">46°01'15.807"N 7°29'49.604"E</a>	T. de la Roussette (B)	Hérens	Rock Glacier	30	0.5	dm/m	15	360	135	100-500
<a href="#">46°03'37.228"N 7°44'52.098"E</a>	Mettelzug 1 (A)	Mattertal	Rock Glacier	55	0.35	cm/m	8	352	92	0-100
<a href="#">45°53'31.553"N 7°13'01.756"E</a>	T. Perche 2 (A)	Entremont	Rock Glacier	25	0.4	dm/m	10	200	90	0-100
<a href="#">45°59'34.321"N 7°40'36.284"E</a>	Zmuttbach (B)	Mattertal	Rock Glacier	30	0.8	dm/m	6	144	86	0-100
<a href="#">46°03'30.677"N 7°44'52.945"E</a>	Mettelzug 2 (A)	Mattertal	Rock Glacier	45	0.3	cm/m	10	360	81	0-100
<a href="#">45°58'09.782"N 7°22'29.799"E</a>	T. de la Lire Rose (A)	Bagnes	Push-Moraine	40	0.2	dm/m	15	480	72	0-100
<a href="#">46°04'57.149"N 7°38'33.517"E</a>	Glacier de Zinal (B)	Anniviers	Rock Glacier	40	0.3	cm/m	10	320	72	0-100
<a href="#">46°09'08.255"N 7°49'02.600"E</a>	GrosseGrabe 2 (A)	Mattertal	Landslide	60	0.25	cm/m	7	336	63	0-100
<a href="#">46°05'20.322"N 7°56'41.610"E</a>	Brandgrabe (A)	Saastal	Rock Glacier	45	0.3	cm/m	6	216	49	0-100
<a href="#">46°10'09.054"N 7°40'21.932"E</a>	Friliwäng (B)	Turtmannal	Landslide	40	0.4	cm/m	5	160	48	0-100
<a href="#">46°04'06.127"N 7°48'54.488"E</a>	Täschbach 2 (B)	Mattertal	Landslide	30	0.25	cm/m	6	144	27	0-100
<a href="#">45°53'34.094"N 7°13'15.853"E</a>	T. Perche 3 (A)	Entremont	Rock Glacier	15	0.4	dm/m	6	72	22	0-100
<a href="#">45°57'15.099"N 7°14'33.805"E</a>	T. de la Croix (B)	Entremont	Push-Moraine	20	0.2	dm/m	3	48	7	0-100

**Table S1: List of all catchments in which at least one moving landform was identified as connected to the torrential network system in the study region. Information about the localization, the landform type and the different parameters used for the estimation of sediment transfer rates are also given.**