

Supplementary table : Rock glacier inventory and kinematics in the Southern Alps of New Zealand

RG_id	Activity	Kin_attrib	Reliability	Area	Roots_alt	Front_alt	Slope	Aspect	Region	lat (°)	long (°)	Description :
RG_001	Transitional	cm/yr to dm/yr	Low	5.8	2000	1860	27	220	BR	-44.282	169.641	RG_id
RG_002*	Active	dm/yr to m/yr	High	11.3	1780	1700	16	115	BR	-44.265	169.661	Rock glacier identification number
RG_003	Active	dm/yr to m/yr	High	3.5	2100	2020	20	80	BR	-44.254	169.658	*: Possibly/likely debris-covered glacieret
RG_004	Active	dm/yr	Medium	3.7	2005	1930	32	225	BR	-44.165	169.712	**glacitectonized frozen landform;
RG_005	Active	dm/yr to m/yr	Medium	7.7	1860	1780	16	135	BR	-44.148	169.712	glacier forefield connected rock glacier
RG_007**	Active	dm/yr	Medium	7.7	2250	2020	26	260	BOR	-43.985	169.884	Activity
RG_008	Transitional	cm/yr	Medium	2.6	1968	1920	25	200	BOR	-44.086	169.953	Activity state
RG_009	Transitional	cm/yr	Low	3.3	2036	1950	25	150	BOR	-44.084	169.944	Kin_attrib
RG_010	Transitional	cm/yr to dm/yr	Medium	5.4	2020	1930	28	135	BOR	-44.077	169.950	Kinematic attribute
RG_011	Transitional	cm/yr	Medium	2.4	1983	1900	28	210	BOR	-44.069	169.981	Reliability
RG_012-1	Transitional	cm/yr	High	1.2	2030	1995	26	125	BOR	-44.068	169.986	Reliability of the kinematic attribute
RG_012-2	Transitional	cm/yr	High	2.3	1977	1920	26	135	BOR	-44.068	169.988	Area
RG_013	Transitional	cm/yr	Medium	2.7	1960	1900	23	190	BOR	-44.037	170.030	Area in hectare
RG_014	Transitional	cm/yr to dm/yr	Medium	1.7	1883	1840	33	200	BOR	-44.040	170.033	Roots_alt
RG_015	Transitional	cm/yr	Medium	3.4	1904	1860	19	190	BOR	-44.009	170.046	Altitude of the roots
RG_016	Transitional	cm/yr to dm/yr	Medium	1.2	2041	2000	30	210	BOR	-44.006	170.045	Front_alt
RG_017	Transitional	cm/yr to dm/yr	High	2.9	1981	1915	29	225	BOR	-43.999	170.060	Altitude of the front
RG_018	Transitional	cm/yr to dm/yr	Medium	2.0	2056	1990	30	190	BOR	-43.996	170.056	Slope
RG_019	Transitional	<cm/yr	Medium	4.1	1981	1860	25	190	BOR	-43.990	170.043	Slope in degrees
RG_020-1	Transitional	cm/yr to dm/yr	Medium	3.5	2060	1990	24	195	BOR	-43.988	170.049	Aspect
RG_020-2	Transitional	cm/yr to dm/yr	High	3.2	2060	2000	22	200	BOR	-43.988	170.050	Aspect in degrees
RG_020-3	Transitional	cm/yr to dm/yr	Medium	3.1	2120	2035	34	200	BOR	-43.988	170.052	Region
RG_021	Transitional	cm/yr to dm/yr	Medium	8.3	2113	2050	23	210	BOR	-43.989	170.054	Region
RG_022	Transitional	cm/yr	Low	1.6	2175	2150	21	50	BOR	-43.986	170.058	BR: Barrier Range
RG_023	Transitional	cm/yr to dm/yr	Medium	6.8	2060	1955	24	165	BOR	-43.984	170.064	BOR: Ben Ohau Range
RG_024	Transitional	cm/yr to dm/yr	Medium	3.7	1984	1960	25	165	BOR	-43.984	170.068	LR: Liebig Range
RG_025	Active	dm/yr	High	1.7	2216	2165	23	110	BOR	-43.978	170.056	TT: Two Thumb Range
RG_026	Transitional	cm/yr	Low	10.8	2122	1860	27	240	BOR	-43.981	170.047	HR: Heron region
RG_027	Transitional	cm/yr	Low	2.1	1935	1920	24	140	BOR	-43.979	170.025	AP: Arthur's Pass region
RG_028	Active	dm/yr	Medium	3.4	2145	2100	25	140	BOR	-43.970	170.040	HuR: Huxley Range
RG_029	Transitional	cm/yr	Medium	1.2	1933	1890	28	190	BOR	-43.966	170.019	lat (°)
RG_030	Active	dm/yr	Medium	3.0	2210	2150	26	250	BOR	-43.946	170.012	long (°)
RG_032	Active	Undefined	Undefined	2.2	2168	2120	29	180	BOR	-43.891	170.059	
RG_033	Transitional	cm/yr to dm/yr	Medium	2.1	2072	1985	27	150	LR	-43.840	170.296	
RG_034	Transitional	cm/yr	Medium	4.2	2180	2115	18	160	LR	-43.833	170.302	
RG_035	Transitional	<cm/yr	Medium	0.8	2020	1980	29	200	LR	-43.831	170.317	

RG_036	Transitional	cm/yr to dm/yr	Medium	0.6	2045	2015	33	200	LR	-43.829	170.315
RG_037	Transitional	cm/yr	Medium	2.4	2080	2015	26	180	LR	-43.814	170.291
RG_038	Active	dm/yr	Medium	2.7	2130	2050	32	190	LR	-43.814	170.295
RG_039	Active	dm/yr	Medium	1.4	1960	1935	29	180	LR	-43.794	170.285
RG_040	Transitional	<cm/yr	Low	1.9	2090	2045	24	0	LR	-43.791	170.280
RG_041	Transitional	cm/yr to dm/yr	High	3.3	2100	2000	29	140	LR	-43.790	170.317
RG_043	Active	dm/yr	High	5.8	2110	1990	27	220	LR	-43.781	170.311
RG_044	Active	dm/yr	High	3.1	2100	1990	28	235	LR	-43.769	170.285
RG_045*	Active	dm/yr	Medium	4.7	2090	2050	21	45	LR	-43.759	170.310
RG_046	Active	dm/yr	Medium	1.4	2205	2166	34	245	LR	-43.755	170.302
RG_047	Active	dm/yr	Medium	0.9	2060	2020	25	150	LR	-43.748	170.308
RG_048**	Active	Undefined	Undefined	6.2	1900	1820	22	260	LR	-43.714	170.252
RG_049	Transitional	cm/yr to dm/yr	Low	0.7	2300	2255	31	280	LR	-43.696	170.322
RG_050	Transitional	<cm/yr	Low	3.6	2118	2100	24	110	LR	-43.717	170.361
RG_051	Active	dm/yr	Medium	10.4	2100	2020	22	180	LR	-43.751	170.361
RG_052	Active	dm/yr	High	2.2	2160	2090	26	90	LR	-43.750	170.372
RG_053	Transitional	cm/yr	High	2.6	1900	1850	28	110	LR	-43.775	170.375
RG_054	Transitional	cm/yr	Low	4.3	2147	2090	25	135	LR	-43.711	170.441
RG_055	Active	dm/yr	Medium	2.1	2200	2100	30	210	LR	-43.709	170.435
RG_056	Active	dm/yr	Low	1.5	2300	2245	30	180	LR	-43.700	170.436
RG_057*	Active	dm/yr to m/yr	Medium	1.9	2000	1925	29	140	LR	-43.640	170.448
RG_058	Transitional	<cm/yr	Low	4.6	2060	2000	18	270	LR	-43.619	170.349
RG_059	Transitional	<cm/yr	Low	7.0	2116	2020	30	315	LR	-43.614	170.354
RG_060	Transitional	cm/yr	Medium	1.6	1910	1870	34	160	TT	-43.856	170.672
RG_061	Transitional	<cm/yr	Low	9.0	1788	1650	22	110	TT	-43.857	170.685
RG_062	Transitional	cm/yr	Low	2.2	2125	2096	17	165	TT	-43.851	170.718
RG_063	Transitional	cm/yr	High	1.1	2035	2000	26	90	TT	-43.849	170.724
RG_064-1	Transitional	cm/yr	Low	1.8	2097	2005	24	120	TT	-43.848	170.725
RG_064-2	Transitional	cm/yr	Medium	2.4	2097	2060	28	120	TT	-43.847	170.723
RG_065	Transitional	cm/yr	Medium	0.2	2180	2160	37	150	TT	-43.840	170.723
RG_066	Transitional	cm/yr	Medium	0.4	2063	2040	28	175	TT	-43.835	170.729
RG_067	Transitional	cm/yr	Medium	0.9	2110	2075	37	170	TT	-43.834	170.728
RG_068	Transitional	cm/yr	Low	1.3	2160	2115	35	160	TT	-43.833	170.726
RG_069	Transitional	cm/yr	Medium	8.9	2120	1990	26	210	TT	-43.833	170.720
RG_070	Transitional	cm/yr	Medium	5.3	2100	2000	22	200	TT	-43.822	170.714
RG_071-1	Transitional	cm/yr	Low	1.2	1997	1958	19	135	TT	-43.818	170.707
RG_071-2	Transitional	cm/yr	Low	4.3	1994	1984	20	135	TT	-43.818	170.705
RG_072	Transitional	cm/yr	Medium	2.3	2049	2015	22	150	TT	-43.805	170.721
RG_073	Transitional	cm/yr	High	0.4	2115	2100	21	110	TT	-43.803	170.722
RG_074	Transitional	cm/yr	Low	6.4	1834	1750	20	180	TT	-43.778	170.706

RG_075	Transitional	cm/yr	Low	5.8	1814	1740	20	180	TT	-43.777	170.709
RG_076	Transitional	cm/yr	Medium	4.3	1913	1860	21	100	TT	-43.726	170.697
RG_077	Transitional	cm/yr	Medium	11.3	1934	1780	23	175	TT	-43.681	170.711
RG_078	Transitional	cm/yr to dm/yr	Medium	1.8	2025	2000	17	130	TT	-43.676	170.718
RG_079	Transitional	cm/yr to dm/yr	Medium	2.6	2074	2025	25	220	TT	-43.651	170.703
RG_080	Transitional	cm/yr to dm/yr	Low	3.5	2200	2115	30	140	TT	-43.651	170.710
RG_081	Transitional	cm/yr to dm/yr	High	3.0	2250	2145	25	225	TT	-43.647	170.708
RG_082	Transitional	cm/yr	High	4.3	2208	2165	23	135	TT	-43.645	170.715
RG_083	Transitional	cm/yr	Low	0.9	2191	2160	25	175	TT	-43.642	170.722
RG_084	Transitional	cm/yr	Low	0.4	2191	2160	33	190	TT	-43.643	170.723
RG_085	Transitional	cm/yr to dm/yr	Low	5.5	2140	2025	23	180	TT	-43.633	170.730
RG_086	Active	dm/yr	Medium	4.6	2020	1931	26	155	TT	-43.617	170.742
RG_087	Active	dm/yr	Medium	7.2	2100	1970	22	180	TT	-43.601	170.730
RG_088-1	Transitional	cm/yr	Medium	9.2	1870	1690	27	110	TT	-43.597	170.745
RG_088-2	Transitional	cm/yr	Medium	15.1	1980	1800	24	110	TT	-43.596	170.740
RG_088-3*	Active	dm/yr to m/yr	High	7.3	2060	1925	21	110	TT	-43.594	170.735
RG_088-4	Active	dm/yr to m/yr	High	3.2	2060	1960	28	90	TT	-43.594	170.735
RG_089-1	Active	dm/yr to m/yr	Medium	4.0	2110	1993	25	185	TT	-43.596	170.721
RG_089-2	Active	dm/yr to m/yr	Medium	4.0	2230	2110	22	190	TT	-43.593	170.722
RG_090	Active	Undefined	Undefined	1.5	2270	2210	30	100	TT	-43.583	170.715
RG_091*	Active	m/yr	Medium	8.1	2180	2025	31	240	TT	-43.576	170.712
RG_092	Transitional	<cm/yr	Medium	2.4	1897	1815	23	170	TT	-43.556	170.738
RG_093	Transitional	cm/yr to dm/yr	Medium	0.9	1999	1966	26	160	TT	-43.870	170.776
RG_094	Transitional	cm/yr	Medium	4.4	1991	1956	17	160	TT	-43.864	170.778
RG_095	Transitional	cm/yr	Medium	2.3	1989	1922	24	150	TT	-43.848	170.787
RG_096	Transitional	cm/yr to dm/yr	Medium	12.3	2096	2010	19	230	TT	-43.840	170.775
RG_097	Transitional	cm/yr	High	2.0	2191	2152	23	250	TT	-43.842	170.784
RG_098	Transitional	<cm/yr	Medium	2.3	1897	1835	20	160	TT	-43.840	170.798
RG_099	Transitional	cm/yr	Medium	0.6	2083	2057	28	180	TT	-43.792	170.803
RG_100	Transitional	cm/yr	Medium	6.5	2006	1929	22	165	TT	-43.794	170.807
RG_101	Transitional	cm/yr	Medium	0.5	2018	2000	29	170	TT	-43.778	170.820
RG_102*	Active	dm/yr to m/yr	Medium	3.9	1840	1770	25	160	HR	-43.355	171.042
RG_103	Transitional	cm/yr	Low	4.4	2025	1986	15	170	HR	-43.517	171.360
RG_104	Transitional	cm/yr	Medium	4.6	1880	1830	21	220	AP	-43.187	171.606
RG_105	Active	dm/yr to m/yr	Medium	2.6	1820	1790	20	175	AP	-43.118	171.410
RG_106	Active	dm/yr to m/yr	Medium	1.1	1965	1942	16	220	AP	-43.034	171.441
RG_107	Transitional	cm/yr	Medium	5.2	2160	2050	28	140	LR	-43.701	170.441
RG_108	Transitional	<cm/yr	Medium	3.2	1920	1890	16	180	HR	-43.465	171.009
RG_109	Transitional	<cm/yr	Low	17.2	1920	1780	23	260	HR	-43.457	171.005
RG_110	Transitional	cm/yr to dm/yr	Low	0.9	2020	1980	32	120	BR	-44.253	169.661

RG_111	Active	dm/yr to m/yr	Medium	5.6	1980	1890	22	160	TT	-43.583	170.658
RG_112	Active	dm/yr to m/yr	Medium	0.9	2010	1960	30	180	TT	-43.554	170.692
RG_113*	Active	m/yr	Medium	8.7	1920	1760	21	210	TT	-43.616	170.553
RG_114	Active	Undefined	Undefined	1.3	1940	1900	26	240	HuR	-44.224	169.543
RG_115**	Active	dm/yr to m/yr	Medium	4.7	1920	1880	12	250	HuR	-44.118	169.633
RG_116*	Active	dm/yr to m/yr	Low	1.9	2120	2020	33	165	LR	-43.726	170.320
RG_117*	Active	Undefined	Undefined	4.3	2150	2090	20	280	LR	-43.691	170.319