

Site	Surface age (ka)	Rock type	N rocks	N cracks	Number density (#/m ²) Q1 (p25)	Number density (#/m ²) median (p50)	Number density (#/m ²) Q3 (p75)	Number density (#/m ²) mean	Number density % change from initial mean	Fracture intensity (mm/m ²) Q1 (p25)	Fracture intensity (mm/m ²) median (p50)	Fracture intensity (mm/m ²) Q3 (p75)	Fracture intensity (mm/m ²) mean	Fracture intensity % change from initial mean	Mean fracture length, all fractures (mm)	Median fracture length, all fractures (mm)	Longest fracture length mean, with 0 for clasts with no measured fractures (mm)	Mean of the median (p50) fracture length per individual rock (mm)	Longest fracture length mean, small rocks only (see T-tests tab for criteria) (mm)	Longest fracture length mean, large rocks only (see T-tests tab for criteria) (mm)
Northernmost	0*	Granitoid	68	14	0	0	0	2		0	0	0	55		6.9	0	6	6	5	8
Northernmost	15	Granitoid	87	44	0	0	4	2	51	0	0	165	192	249			38	32	18	48
Northernmost	17.7	Granitoid	167	142	0	0	8	4		0	0	246	173				19	14	12	31
Northernmost	41.1	Granitoid	50	2	0	0	0	0		0	0	0	9				2	2	2	2
Northernmost	148.3	Granitoid	92	9	0	0	0	0		0	0	0	23				12	6	0	17
Middle	0*	Granitoid	192	178	0	0	11	7		0	0	327	251		23.4	22	18	14	16	30
Middle	6.2	Granitoid	208	1318	9	24	49	33	343	279	837	1782	1209	382			61	30	41	73
Middle	20.9	Granitoid	112	444	15	25	46	34		482	873	1787	1283				52	32	44	69
Middle	33.1	Granitoid	137	818	21	38	65	47		608	1334	2829	1896				74	34	58	101
Middle	76.3	Granitoid	100	441	15	36	54	39		395	1206	1778	1321				55	25	33	97
Middle	117.3	Granitoid	95	289	15	29	49	35		506	877	1865	1321				49	29	39	75
Southernmost	0*	Granitoid	50	105	0	9	37	23		0	252	1236	876		31.8	26	31	18	21	46
Southernmost	1	Granitoid	62	264	16	42	90	59	157	469	1936	3455	2378	171			54	34	42	77
Southernmost	5	Granitoid	50	291	20	41	99	62		668	1942	3979	2536				65	33	57	72
Southernmost	10	Granitoid	51	326	37	72	100	87		1600	2702	4288	3406				81	35	46	108
Southernmost	30	Granitoid	61	318	42	63	91	71		1478	2485	3867	2972				75	34	53	100
Southernmost	70	Granitoid	79	381	26	44	86	60		1157	2116	3471	2622				71	38	48	92
Southernmost	0*	Volcanic	52	219	0	22	60	36		0	1008	1998	1369		36.0	30	50	23	24	60
Southernmost	1	Volcanic	50	212	12	43	89	62	72	461	1298	3417	2234	63			43	25	36	56
Southernmost	5	Volcanic	50	353	20	61	122	86		1295	3080	5185	4024				86	43	58	114
Southernmost	10	Volcanic	50	376	33	70	136	90		1735	3718	7229	4885				106	47	63	139
Southernmost	30	Volcanic	42	223	36	72	100	72		1502	2807	4509	2927				56	35	49	85
Southernmost	70	Volcanic	43	230	12	33	69	50		366	1443	3270	2124				68	36	38	79
Southernmost	0*	Carbonate	51	81	0	8	19	14		0	216	595	390		22.9	23	19	15	11	29
Southernmost	1	Carbonate	50	139	0	18	44	29	107	0	460	1324	847	117			25	18	19	32
Southernmost	5	Carbonate	50	553	58	101	181	119		1897	3982	6685	4407				71	31	53	93
Southernmost	10	Carbonate	40	470	64	135	215	151		2019	4751	7582	5171				77	31	59	128
Southernmost	30	Carbonate	41	299	47	97	162	121		1762	3361	6423	4348				53	29	50	62
Southernmost	70	Carbonate	41	224	22	58	106	73		792	2391	4174	2906				68	31	49	82

Site	Surface age (ka)	Rock type	N rocks	N cracks	Number density (#/m ²) Q1 (p25) rate	number density (#/m ²) median (p50) rate	Number density (#/m ²) Q3 (p75) rate	Number density (#/m ²) mean rate	Fracture intensity (mm/m ²) Q1 (p25) rate	Fracture intensity (mm/m ²) median (p50) rate	Fracture intensity (mm/m ²) Q3 (p75) rate	Fracture intensity (mm/m ²) mean rate	Longest fracture length, mean growth rate (longest fracture per rock-longest fracture per rock) (mm/kyr)	Longest fracture length, mean growth rate of medians (median fracture length per rock-median fracture length on MW) (mm/kyr)	Longest fracture length, mean to longest growth rate (longest fracture per rock-mean fracture length on MW) (mm/kyr)	Longest fracture length, median to longest growth rate (longest fracture per rock-median fracture length on MW) (mm/kyr)
Northernmost	0.00	Granitoid	68	14												
Northernmost	15.00	Granitoid	87	44	0.0	0.0	0.3	0.1	0.0	0.0	11.0	9.1	2.1	1.8	2.1	2.5
Northernmost	17.70	Granitoid	167	142	0.0	0.0	0.4	0.2	0.0	0.0	13.9	6.7	0.7	0.5	0.7	1.1
Northernmost	41.10	Granitoid	50	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.1	-0.1	-0.1	-0.1	0.0
Northernmost	148.30	Granitoid	92	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.0	0.0	0.0	0.1
Middle	0	Granitoid	192	178												
Middle	6.2	Granitoid	208	1318	1.4	3.8	6.2	4.1	45.0	135.0	234.7	154.5	6.9	2.5	6.1	6.3
Middle	20.9	Granitoid	112	444	0.7	1.2	1.7	1.3	23.1	41.8	69.9	49.4	1.6	0.9	1.4	1.4
Middle	33.1	Granitoid	137	818	0.6	1.1	1.6	1.2	18.4	40.3	75.6	49.7	1.7	0.6	1.5	1.6
Middle	76.3	Granitoid	100	441	0.2	0.5	0.6	0.4	5.2	15.8	19.0	14.0	0.5	0.1	0.4	0.4
Middle	117.3	Granitoid	95	289	0.1	0.2	0.3	0.2	4.3	7.5	13.1	9.1	0.3	0.1	0.2	0.2
Southernmost	0	Granitoid	50	105												
Southernmost	1	Granitoid	62	264	16.1	33.1	53.4	36.0	469.0	1684.0	2219.0	1502.0	23.0	16.1	22.2	28.0
Southernmost	5	Granitoid	50	291	3.9	6.4	12.5	7.8	133.6	338.0	548.6	332.0	6.8	3.0	6.6	7.8
Southernmost	10	Granitoid	51	326	3.7	6.3	6.3	6.4	160.0	245.0	305.2	253.0	5.0	1.7	4.9	5.5
Southernmost	30	Granitoid	61	318	1.4	1.8	1.8	1.6	49.3	74.4	87.7	69.9	1.5	0.5	1.4	1.6
Southernmost	70	Granitoid	79	381	0.4	0.5	0.7	0.5	16.5	26.6	31.9	24.9	0.6	0.3	0.6	0.6
Southernmost	0	Volcanic	52	219												
Southernmost	1	Volcanic	50	212	12.3	20.7	28.3	26.0	461.0	290.0	1419.0	865.0	-7.0	2.0	7.0	13.0
Southernmost	5	Volcanic	50	353	4.0	7.7	12.3	10.0	259.0	414.4	637.4	531.0	7.2	4.0	10.0	11.2
Southernmost	10	Volcanic	50	376	3.3	4.8	7.6	5.4	173.5	271.0	523.1	351.6	5.6	2.4	7.0	7.6
Southernmost	30	Volcanic	42	223	1.2	1.7	1.3	1.2	50.1	60.0	83.7	51.9	0.2	0.4	0.7	0.9
Southernmost	70	Volcanic	43	230	0.2	0.2	0.1	0.2	5.2	6.2	18.2	10.8	0.3	0.2	0.5	0.5
Southernmost	0	Carbonate	51	81												
Southernmost	1	Carbonate	50	139	0.0	10.1	25.2	15.0	0.0	244.0	729.0	457.0	6.0	3.5	2.1	2.0
Southernmost	5	Carbonate	50	553	11.6	18.6	32.6	21.0	379.4	753.2	1218.0	803.4	10.4	3.3	9.6	9.6
Southernmost	10	Carbonate	40	470	6.4	12.7	19.7	13.7	201.9	453.5	698.7	478.1	5.8	1.6	5.4	5.4
Southernmost	30	Carbonate	41	299	1.6	2.9	4.8	3.6	58.7	104.8	194.3	131.9	1.1	0.5	1.0	1.0
Southernmost	70	Carbonate	41	224	0.3	0.7	1.3	0.8	11.3	31.1	51.1	35.9	0.7	0.2	0.6	0.6

**For fracture rates, a maximum fracture length value of 0 was assigned for rocks with no fractures.

Site, rock type	Surface age (ka)	Prob > t , Log(fracture intensity) vs. large grain size	Prob > t , fracture number density vs. large grain size	Prob > t , Log(fracture intensity) vs. % mafic minerals (>10%)	Prob > t , fracture number density vs. % mafic minerals (>10%)	Prob > t , Log(fracture intensity) vs. large rock diameter	Prob > t , fracture number density vs. rock diameter (>30 cm)	Prob > t , longest fracture length vs. large rock diameter	** "Insufficient data" = 5 data points or less per subset
Northernmost granitoid	All surfaces	0.0190	0.1689	Insufficient data	Insufficient data	0.0013	0.9154	<0.0001	*** "Large grain size" = 2mm felsic for granitic rocks and 0.4mm for volcanic and carbonate rocks.
Northernmost granitoid	0	Insufficient data	Insufficient data	Insufficient data	Insufficient data	0.5954	0.7335	0.5301	
Northernmost granitoid	15	Insufficient data	Insufficient data	Insufficient data	Insufficient data	0.0810	0.2787	0.0485	
Northernmost granitoid	17.7	0.0190	0.1689	Insufficient data	Insufficient data	0.0035	0.4847	0.0040	
Northernmost granitoid	41.1	Insufficient data	Insufficient data	Insufficient data	Insufficient data	0.7701	0.6424	0.8149	
Northernmost granitoid	148.3	Insufficient data	Insufficient data	Insufficient data	Insufficient data	0.0021	0.0033	0.0100	
Middle granitoid	All surfaces	0.1354	0.0009	0.0457	0.9777	<0.0001	0.3516	<0.0001	**** "Large rock diameter" = >30cm long axis length for Northernmost and Middle site, and >20cm for Southernmost site.
Middle granitoid	0	0.3938	0.3900	0.1290	0.0276	0.3858	0.0231	0.0010	
Middle granitoid	6.2	0.0021	<0.0001	0.0765	0.0455	0.1275	0.1932	0.0102	
Middle granitoid	20.9	0.7030	0.3744	0.6596	0.8733	0.1519	0.4951	<0.0001	
Middle granitoid	33.1	0.1498	0.2137	0.3304	0.2919	0.0086	0.5615	<0.0001	
Middle granitoid	76.3	0.5930	0.1871	0.8815	0.1503	0.0003	0.8631	0.0055	
Middle granitoid	117.3	0.8499	0.4513	Insufficient data	Insufficient data	0.0532	0.1164	<0.0001	
Southernmost granitoid	All surfaces	0.3508	0.6910	0.0012	0.6247	0.0032	0.0044	<0.0001	
Southernmost granitoid	0	0.2674	0.9061	0.7857	0.6247	0.0169	0.7569	0.0250	
Southernmost granitoid	1	0.9439	0.6931	0.2003	0.6436	0.2580	0.1188	0.0044	
Southernmost granitoid	5	0.9203	0.9711	0.2357	0.8908	0.8488	0.0494	0.2851	
Southernmost granitoid	10	0.5587	0.7803	0.1049	0.0180	0.9310	0.0434	<0.0001	
Southernmost granitoid	30	0.3087	0.0464	0.7296	0.5995	0.0915	0.8000	0.0049	
Southernmost granitoid	70	Insufficient data	Insufficient data	Insufficient data	Insufficient data	0.4058	0.0136	<0.0001	
Southernmost carbonate	All surfaces	0.4978	0.7028			0.0836	0.1509	0.0004	
Southernmost carbonate	0	Insufficient data	Insufficient data			0.0553	0.2406	0.0065	
Southernmost carbonate	1	Insufficient data	Insufficient data			0.1826	0.6416	0.0500	
Southernmost carbonate	5	Insufficient data	Insufficient data			0.0207	0.0279	0.0036	
Southernmost carbonate	10	Insufficient data	Insufficient data			0.8439	0.3390	0.1706	
Southernmost carbonate	30	Insufficient data	Insufficient data			0.2251	0.0490	0.2676	
Southernmost carbonate	70	Insufficient data	Insufficient data			0.5088	0.6092	0.0810	
Southernmost volcanic	All surfaces	0.9563	0.8774			0.0747	0.0394	<0.0001	
Southernmost volcanic	0	0.3347	0.2656			0.0932	0.5079	0.0029	
Southernmost volcanic	1	0.5833	0.8558			0.1376	0.5438	0.0249	
Southernmost volcanic	5	Insufficient data	Insufficient data			0.6904	0.0132	0.0012	
Southernmost volcanic	10	Insufficient data	Insufficient data			0.9108	0.4896	<0.0001	
Southernmost volcanic	30	Insufficient data	Insufficient data			0.0344	0.5701	0.0188	
Southernmost volcanic	70	Insufficient data	Insufficient data			0.5649	0.9775	0.0132	