GSA Data Repository 2019370

Zurbuchen, J., and Simms, A.R., 2019, Late Holocene ice-mass changes recorded in a relative sea-level record from Joinville Island, Antarctica: Geology, v. 47, https://doi.org/10.1130/G46649.1

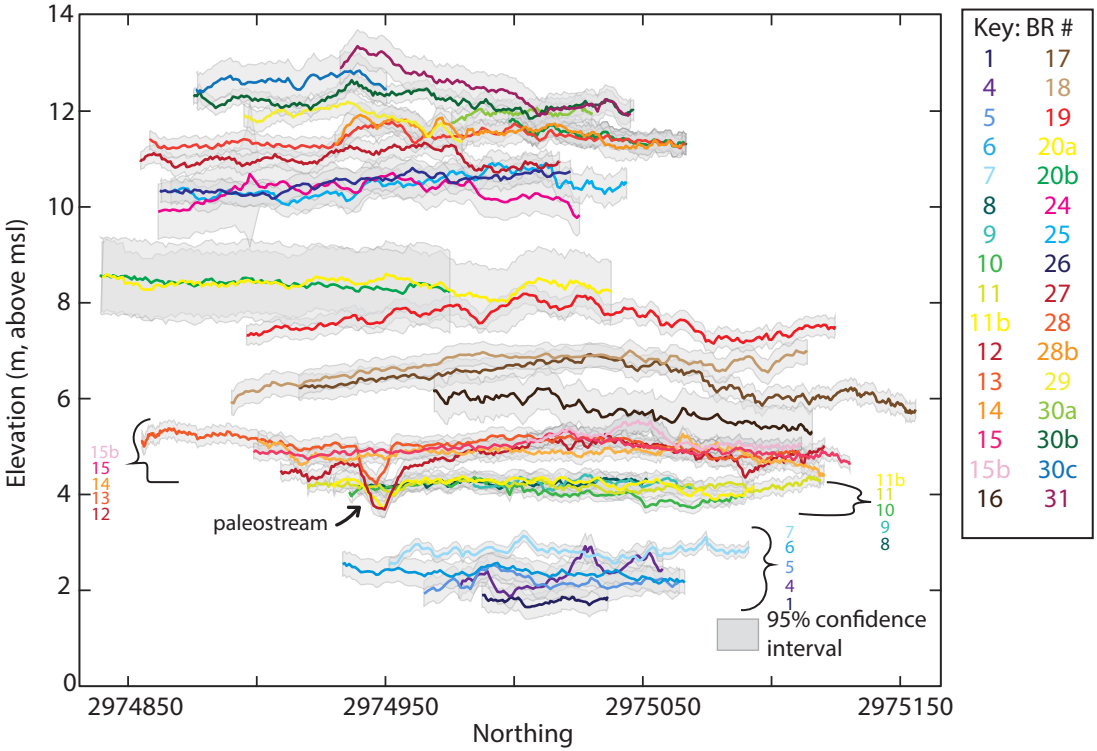

Figure DR1. Transects of beach ridge elevations. 95% confidence interval shown by gray boxes. Beach ridges 2 and 3 were not surveyed in kinematic mode GPS, therefore are not included in the chart. Beach ridges 21 to 23 failed GPS processing due to large errors, and are not included in the chart. Paleostream seen in beach ridges 11-13 was removed when calculating the mean beach ridge elevations.

Table DR1. Radiocarbon dates on organic material found in beach ridges on Joinville Island.

Sample ID	Lab ID	Material	BR	Mean elevation (m)	14C age (BP)	CALIB calibrated ages in yr BP		Bacon calibrated ages in yr BP	
						Range	Median	Age	2σ
JVRC_01	208364	seaweed	1	1.28 ± 0.20	980 ± 15	< 448	< 448	105	160
JVRC_02	208209	shell	1	1.28 ± 0.20	1000 ± 20	< 448	< 448	105	160
JVRC_09	208210	shell	3	1.60 ± 0.72	2065 ± 20	610 – 1090	825	695	190
JVRC_11	208211	shell	4	1.86 ± 0.57	2185 ± 20	692 – 1194	945	950	145
JVRC_12	208365	seaweed	4	1.86 ± 0.57	2175 ± 20	680 – 1183	935	950	145
JVRC_15	208212	shell	5	1.68 ± 0.32	2305 ± 20	800 – 1294	1070	1045	135
JVRC_19-s	208366	seaweed	6	1.84 ± 0.25	2420 ± 15	916 – 1415	1180	1160	130
JVRC_19-l	208213	shell	6	1.84 ± 0.25	2410 ± 20	910 – 1407	1170	1160	130
JVRC_22.1	210312	seaweed	7b	2.42 ± 0.26	2595 ± 20	1091 – 1631	1364	1320	125
JVRC_22.2	210313	shell	7b	2.42 ± 0.26	2625 ± 20	1151 – 1682	1394	1320	125
JVRC_26-s	208637	seaweed	8	3.74 ± 0.15	2710 ± 20	1245 – 1770	1480	1540	125
JVRC_26-l	208214	shell	8	3.74 ± 0.15	2755 ± 20	1280 – 1807	1530	1540	125
JVRC_30	208368	seaweed	9	3.74 ± 0.18	2895 ± 20	1391 – 1968	1685	1630	130
JVRC_33	208369	seaweed	10	3.54 ± 0.33	2865 ± 15	1363 – 1927	1650	1710	135
JVRC_36	208370	seaweed	11	3.69 ± 0.19	2980 ± 15	1506 – 2094	1785	1800	145
JVRC_37	208371	seaweed	11b	3.70 ± 0.28	3075 ± 15	1588 – 2210	1890	1975	155
JVRC_39-s	208372	seaweed	12	4.30 ± 0.47	3275 ± 20	1828 – 2443	2140	2240	155
JVRC_39-l	208215	shell	12	4.30 ± 0.47	3300 ± 20	1854 – 2486	2170	2240	155
JVRC_40	208373	seaweed	13	4.56 ± 0.35	3345 ± 15	2589 – 2591	2220	2345	165
JVRC_42	208374	seaweed	15	4.43 ± 0.28	3725 ± 15	2347 – 2967	2690	2705	175
JVRC_44-s	208375	seaweed	16	5.24 ± 0.61	3880 ± 40	2575 – 3229	2890	2845	155
JVRC_44-l	208216	shell	16	5.24 ± 0.61	3935 ± 20	2694 – 3264	2950	2845	155
JVRC_45	208388	seaweed	17	5.82 ± 0.67	4060 ± 15	2787 – 3375	3095	2995	170
JVRC_49	208376	seaweed	18	6.18 ± 0.54	4180 ± 15	2925 – 3544	3240	3095	195
JVRC_50	208217	shell	2	1.74 ± 0.62	970 ± 20	< 448	< 448	235	175
JVRC_51	208377	seaweed	2	1.74 ± 0.62	950 ± 15	< 448	< 448	235	175