

Table S1. Statistical results of pairwise PERMANOVA and PERMDISP analyses run in Primer v.7.0.13. Run with bank and topographic feature as fixed factors, 9999 permutations, and default settings: Sum of Squares = Type III, fixed effects sum to zero for mixed terms = checked, and permutation method = permutation of residuals under a reduced model. Because significant interaction was detected among factors, pairwise comparisons were conducted for term = bank X topographic feature. PERMDISP analyses were run with the following settings: 9999 permutations, pairwise tests, and distance to centroids. * indicates that this test result is not significant per correlated Bonferroni correction (Drezner and Drezner 2016).

	PERMANOVA			PERMDISP	
	t	P(perm)	Unique perms	t	P(perm)
Terraces					
Aransas vs. Baker	3.3891	0.0001	9959	2.2959	0.0505
Aransas vs. Blackfish	2.7538	0.0002	9956	2.6545	0.0210*
Aransas vs. Dream	3.3298	0.0001	9972	2.8021	0.0140
Aransas vs. Harte	3.7719	0.0001	9950	1.0399	0.4190
Baker vs. Blackfish	3.5265	0.0001	9961	0.14874	0.8895
Baker vs. Dream	3.4876	0.0001	9954	0.65652	0.5514
Baker vs. Harte	5.7541	0.0001	9959	2.795	0.0102
Blackfish vs. Dream	2.9166	0.0001	9968	0.55902	0.6391
Blackfish vs. Harte	3.4252	0.0001	9954	3.0877	0.0088
Dream vs. Harte	4.4635	0.0001	9962	3.1689	0.0119
Slopes					
Aransas vs. Baker	1.454	0.1186	5397	1.4784	0.2631
Aransas vs. Blackfish	0.28835	0.9329	9950	1.2258	0.2822
Aransas vs. Dream	1.6875	0.0567	9951	3.2241	0.0153
Aransas vs. Harte	2.8027	0.0009	9945	1.6048	0.1911
Baker vs. Blackfish	1.8286	0.0352*	2380	0.57512	0.6572
Baker vs. Dream	0.81001	0.4893	5362	0.17739	0.9202
Baker vs. Harte	3.2796	0.0013	781	0.15132	0.8727
Blackfish vs. Dream	2.3439	0.0029	9973	1.3035	0.339
Blackfish vs. Harte	2.6509	0.0005	9934	0.46678	0.7243
Dream vs. Harte	4.9691	0.0001	9948	0.50404	0.7308
Banks					
Aransas	3.8487	0.0001	9961	3.5554	0.0021
Baker	3.0304	0.0002	8808	0.91597	0.4554
Blackfish	2.3189	0.0027	9964	1.155	0.3856
Dream	5.3736	0.0001	9948	2.5899	0.0379*
Harte	0.75494	0.6672	9952	0.99958	0.4728