

S1 Table. Grain size (in percent) and CaCO₃ content of sediment samples collected from the main depositional environments.

Samples	Coordinates		>2000 μm	2000 μm	1400 μm	1000 μm	710 μm	500 μm	354 μm	250 μm	180 μm	125 μm	90 μm	<90 μm	CaCO ₃ %
Dunes															
SG-A1	452188	4414459	0.0	0.0	0.1	0.1	0.5	5.9	18.8	36.6	29.1	8.1	0.5	0.3	84
SG-A2	452133	4414530	0.0	0.0	0.1	0.9	8.6	29.1	27.2	23.0	9.5	1.5	0.1	0.0	78
SG-D3	451262	4415704	0.0	0.0	0.0	0.1	0.7	8.5	26.0	40.3	20.4	3.7	0.1	0.0	86
SG-D4	451200	4415707	0.0	0.0	0.1	0.6	4.2	15.4	25.3	32.2	18.0	3.8	0.2	0.1	73
SG-B1	452214	4414545	0.0	0.0	0.0	0.0	1.5	15.2	30.2	34.2	15.7	2.9	0.1	0.1	73
SG-B2	452153	4414576	0.0	0.0	0.1	1.4	9.4	24.6	25.4	24.7	11.9	2.3	0.2	0.0	46
SG-B3	452013	4414629	0.0	0.0	0.0	0.3	4.3	18.9	27.1	31.6	15.3	2.4	0.0	0.0	69
SG-C2	451364	4415663	0.0	0.0	0.0	0.0	0.2	3.3	17.8	41.0	31.3	6.2	0.1	0.0	78
SG-C3	451283	4415654	0.1	0.0	0.0	0.0	1.1	10.6	25.1	38.6	20.8	3.6	0.1	0.0	100
SG-A3	451936	4414547	0.0	0.0	0.1	1.6	7.8	22.9	27.3	28.8	10.6	0.9	0.0	0.0	67
SG-A4	451891	4414562	0.0	0.0	0.0	1.2	12.0	30.2	27.9	21.6	6.3	0.7	0.0	0.0	70
SG-C4	451255	4415655	0.0	0.0	0.0	0.0	0.2	4.5	23.0	44.6	24.3	3.3	0.0	0.0	78
SG-D2	451345	4415713	0.0	0.0	0.0	0.0	0.1	2.7	18.1	40.0	31.5	7.3	0.1	0.0	76
SG-B4	451952	4414432	0.0	0.0	0.3	2.6	8.8	19.1	25.1	29.3	12.9	1.8	0.1	0.0	69
SG-B5	451890	4414636	0.0	0.0	0.3	2.9	13.0	27.4	21.5	30.6	4.0	0.4	0.0	0.0	82
Min.			0.0	0.0	0.0	0.0	0.1	2.7	17.8	21.6	4.0	0.4	0.0	0.0	45.8
Max.			0.1	0.0	0.3	2.9	13.0	30.2	30.2	44.6	31.5	8.1	0.5	0.3	100.0
Mean			0.0	0.0	0.1	0.8	4.8	15.9	24.4	33.2	17.4	3.3	0.1	0.0	75 ± 12
Suberial beach															
SG-45A	451403	4415383	2.5	5.1	12.0	17.1	16.4	18.1	16.0	9.9	2.6	0.2	0.0	0.0	46
SG-45B	451446	4415404	0.0	0.0	0.2	1.2	4.4	15.0	27.4	34.5	14.6	2.5	0.1	0.0	74
SG-A5	451870	4414567	0.3	0.5	4.3	15.5	30.5	27.2	14.1	6.3	1.2	0.1	0.0	0.0	30
SG-A6	451854	4414571	0.1	1.2	11.0	25.8	24.0	15.8	12.3	7.8	1.8	0.1	0.0	0.0	41
SG-B6	451862	4414640	0.0	0.6	3.1	9.6	19.0	24.8	19.7	15.7	5.3	0.6	0.0	0.0	61
SG-B7	451843	4414646	0.3	1.4	8.7	17.3	19.5	16.2	19.5	10.1	5.3	1.7	0.0	0.0	48
SG-C5	451208	4415660	6.8	8.9	16.9	21.1	19.2	12.6	7.1	4.9	2.0	0.5	0.0	0.0	27
SG-D5	451170	4415710	0.2	0.6	3.5	14.1	34.7	32.2	10.7	3.4	0.6	0.1	0.0	0.0	23
SG-D6	451148	4415712	0.4	2.3	13.3	22.6	20.8	18.1	11.8	7.7	2.7	0.4	0.0	0.0	39
SG-STB	451985	4414074	0.4	1.7	8.4	27.3	37.9	18.1	4.3	1.5	0.3	0.0	0.0	0.0	22
SG-STPD	452006	4414071	0.0	0.1	0.1	0.6	4.3	23.2	33.4	28.3	8.9	1.0	0.0	0.0	71
Min.			0.0	0.0	0.1	0.6	4.3	12.6	4.3	1.5	0.3	0.0	0.0	0.0	22.2
Max.			6.8	8.9	16.9	27.3	37.9	32.2	33.4	34.5	14.6	2.5	0.1	0.0	74.3
Mean			1.0	2.0	7.4	15.7	21.0	20.1	16.0	11.9	4.1	0.7	0.0	0.0	44 ± 18
Coastal wedge															
SG-12	450861	4413441	0.1	0.1	0.3	0.8	1.8	2.7	3.2	9.6	20.8	35.1	15.9	9.5	66
SG-13	451086	4413372	0.5	0.1	0.2	0.4	0.8	1.0	1.5	8.9	23.1	44.8	12.1	6.5	45
SG-14	451311	4413311	0.4	0.0	0.1	0.1	0.1	0.4	1.5	8.7	23.1	51.4	12.1	2.1	52
SG-15	451557	4413253	0.1	0.1	0.2	0.4	0.7	2.0	5.1	15.9	26.1	42.5	6.3	0.8	70
SG-16	451753	4413209	0.0	0.0	0.0	0.1	0.9	5.2	14.5	32.0	30.3	16.1	0.8	0.0	75
SG-19	451133	4413749	0.0	0.1	0.2	0.5	1.3	2.8	3.8	6.4	10.3	31.3	24.8	18.5	83
SG-20	451379	4413698	0.0	0.0	0.0	0.1	0.1	0.7	1.4	9.0	25.8	56.8	1.8	4.3	67
SG-21	451648	4413640	0.1	0.0	0.0	0.1	0.6	2.6	7.6	23.3	32.1	29.2	4.0	0.4	77
SG-22	451823	4413990	0.0	0.0	0.0	0.0	0.4	2.7	9.3	25.0	34.4	26.6	1.5	0.1	72
SG-27	451457	4414076	0.0	0.0	0.1	0.3	0.9	1.8	1.4	6.0	19.1	46.8	18.6	4.9	34
SG-28	451698	4414040	0.0	0.0	0.0	0.1	0.6	3.6	10.8	29.0	32.6	21.4	1.8	0.1	71
SG-29	451823	4413990	0.0	0.0	0.0	0.2	1.2	7.1	17.7	35.2	28.1	10.1	0.3	0.0	79
SG-33	451103	4414462	0.0	0.0	0.2	0.4	0.9	1.9	2.3	6.9	17.0	38.8	20.5	10.9	71
SG-34	451326	4414397	0.0	0.0	0.0	0.1	0.1	0.8	1.3	7.4	20.2	39.2	21.2	9.6	61
SG-35	451508	4414315	0.0	0.0	0.0	0.2	0.5	1.8	3.9	13.0	24.4	39.1	13.8	3.3	62
SG-36	451731	4414245	0.0	0.0	0.0	0.1	0.7	4.3	9.9	22.6	36.8	24.4	1.2	0.0	73
SG-37	451875	4414207	0.0	0.0	0.0	0.1	2.1	1.0	6.2	31.8	39.9	18.3	0.5	0.0	69
SG-38	451965	4414175	0.1	0.9	3.5	6.8	10.0	18.9	23.0	24.3	10.1	2.3	0.0	0.0	67
SG-40	450891	4414814	0.0	0.0	0.0	0.1	1.4	4.4	5.5	11.8	20.6	37.4	12.7	6.1	68
SG-41	451132	4414733	0.0	0.0	0.1	0.2	0.4	1.7	2.7	5.1	14.2	41.7	26.8	7.1	63
SG-42	451360	4414655	0.0	0.1	0.1	0.1	0.2	0.8	1.1	4.7	16.6	43.4	25.6	7.4	50
SG-43	451564	4414590	0.0	0.0	0.0	0.1	0.4	1.9	5.8	19.5	30.2	34.8	6.6	0.6	80
SG-44	451722	4414812	0.0	0.0	0.0	0.1	0.6	3.6	11.8	31.9	35.5	16.0	0.5	0.0	79
SG-45	451402	4415383	0.0	0.0	0.1	0.3	1.3	5.7	13.6	28.2	31.7	18.2	0.8	0.0	69
SG-46	451346	4415350	0.1	0.1	0.2	0.5	1.9	7.3	16.4	29.7	28.5	14.3	1.0	0.0	74
SG-47	451230	4415263	0.0	0.0	0.0	0.1	0.7	3.6	9.1	23.3	31.2	27.1	4.3	0.6	70
Min.			0.0	0.0	0.0	0.0	0.1	0.4	1.1	4.7	10.1	2.3	0.0	0.0	33.9
Max.			0.5	0.9	3.5	6.8	10.0	18.9	23.0	35.2	39.9	56.8	26.8	18.5	83.0
Mean			0.1	0.1	0.2	0.5	1.2	3.5	7.3	18.0	25.5	31.0	9.1	3.6	67 ± 11
Offshore															
SG-26	451268	4414125	0.3	2.4	11.8	39.3	40.2	2.9	1.2	0.9	0.7	0.1	0.1	0.0	93
SG-32	450850	4414554	0.3	0.5	2.5	7.4	34.9	45.2	5.2	1.1	1.0	1.3	0.3	0.2	66
SG-18	450850	4413814	0.2	0.8	3.2	14.2	50.2	28.7	1.2	0.5	0.3	0.3	0.2	0.1	67
P11	451038	4415179	0.2	0.3	0.3	0.6	2.5	13.2	24.3	20.5	24.1	12.9	0.9	0.4	71
P3	450964	4414146	11.5	4.1	7.7	13.3	27.3	24.8	4.6	2.1	1.5	1.9	0.7	0.6	54
P5	450724	4414718	6.0	1.1	3.8	8.3	23.8	39.9	7.6	2.5	2.1	2.4	0.7	1.7	61
P6	450701	4414884	0.1	0.4	1.3	3.9	23.7	45.5	9.9	4.3	3.6	4.7	1.1	1.5	55
P8	450208	4415336	6.0	3.4	7.0	11.5	23.6	29.7	12.3	2.7	1.3	1.2	0.7	0.7	76
Min.			0.1	0.3	0.3	0.6	2.5	2.9	1.2	0.5	0.3	0.1	0.1	0.0	54.5
Max.			11.5	4.1	11.8	39.3	50.2	45.5	24.3	20.5	24.1	12.9	1.1	1.7	93.0
Mean			0.7	0.4	1.3	3.2	7.2	9.3	7.8	15.2	20.9	24.9	7.5	3.3	68 ± 13