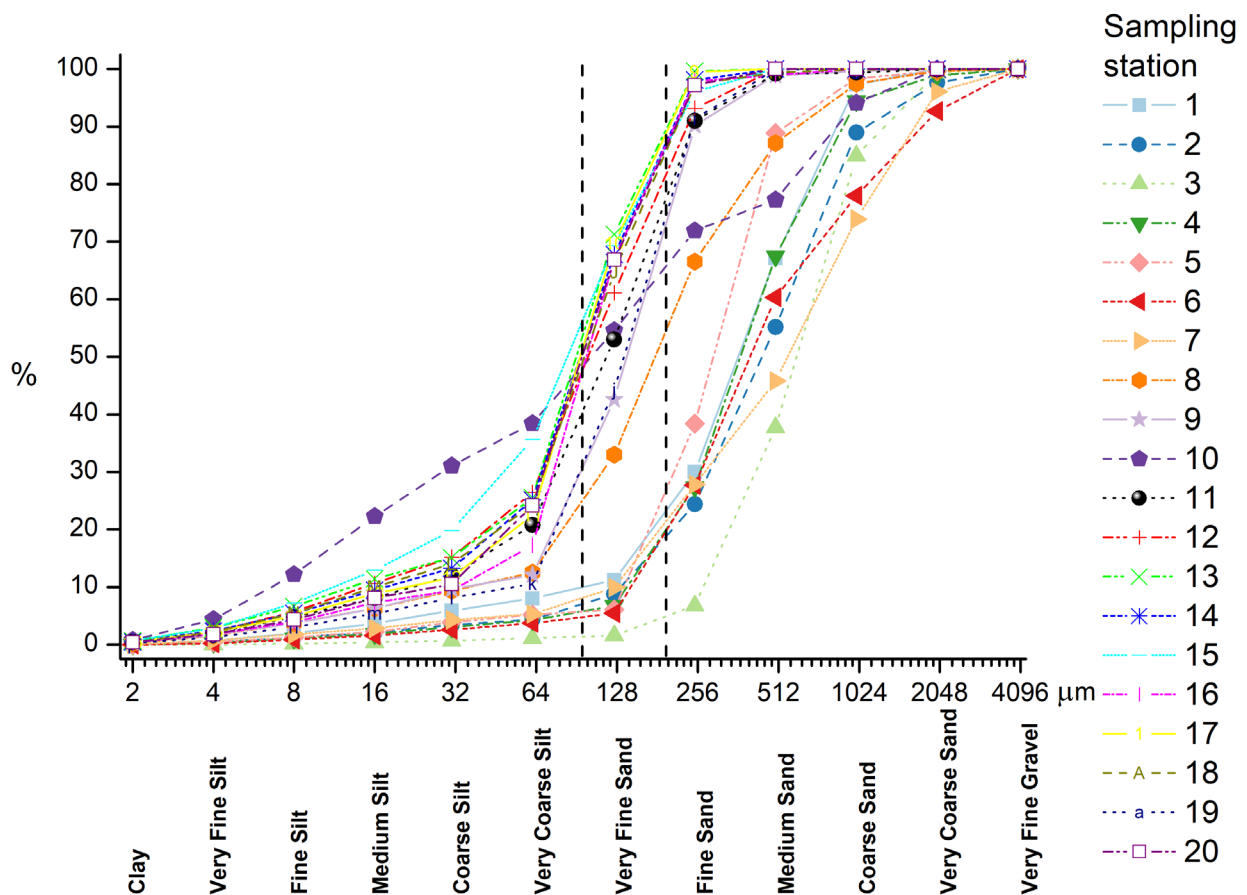


# Repeated (4D) marine geophysical survey as a tool for studying the coastal environment and groundthruting remote sensing observations and modelling

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## Supplementary Materials



**Figure S1.** Particle size distribution curve on log<sub>2</sub> scale at each sampling station.

**Table S1.** Geographic coordinates, depth, reflectivity and grain size percentage at each sampling station.

Sampling station	Geographic				Grain size classes																
	coordinate UTM33 WGS84		Depth m	Reflectivity	Clay	Very Fine Silt	Fine Silt	Medium Silt	Coarse Silt	Very Coarse Silt	Very Fine Sand	Fine Sand	Medium Sand	Coarse Sand	Very Coarse Sand	Very Fine Gravel	Fine Gravel	Medium Gravel	Coarse Gravel	Very Coarse Gravel	
	X	Y	< 2 μm	< 4 μm	< 8 μm	< 16 μm	< 31 μm	< 62 μm	< 125 μm	< 250 μm	< 500 μm	< 1000 μm	< 2000 μm	< 4000 μm	< 8000 μm	< 1600 μm	< 3200 μm	< 6400 μm			
1	286606	4917462	-1.38	0.4369	0.07%	0.63%	1.31%	1.66%	2.24%	2.14%	3.13%	18.82%	37.16%	30.18%	2.67%	0.00%	0.00%	0.00%	0.00%	0.00%	
2	286622	4917581	-1.88	0.4410	0.00%	0.42%	0.84%	0.87%	1.28%	0.93%	4.41%	15.66%	30.77%	33.76%	8.66%	2.40%	0.00%	0.00%	0.00%	0.00%	
3	286569	4917668	-1.15	0.5041	0.00%	0.00%	0.17%	0.24%	0.23%	0.50%	0.42%	5.24%	30.93%	47.19%	14.48%	0.60%	0.00%	0.00%	0.00%	0.00%	
4	286602	4917742	-1.92	0.4073	0.00%	0.31%	0.76%	0.79%	1.17%	1.22%	2.51%	20.64%	40.10%	26.92%	4.47%	1.11%	0.00%	0.00%	0.00%	0.00%	
5	286568	4917792	-0.88	0.5306	0.01%	0.40%	0.85%	0.97%	1.63%	1.37%	0.86%	32.29%	50.52%	9.52%	1.20%	0.39%	0.00%	0.00%	0.00%	0.00%	
6	286603	4917876	-0.82	0.5382	0.00%	0.20%	0.69%	0.71%	0.98%	1.16%	1.70%	22.27%	32.63%	17.66%	14.69%	7.32%	0.00%	0.00%	0.00%	0.00%	
7	286668	4917810	-3.24	0.2652	0.07%	0.65%	1.07%	1.04%	1.45%	1.02%	4.60%	17.91%	17.98%	28.14%	22.13%	3.94%	0.00%	0.00%	0.00%	0.00%	
8	286734	4917740	-3.91	0.2790	0.27%	1.30%	2.16%	2.56%	3.04%	3.20%	20.48%	33.51%	20.61%	10.34%	2.14%	0.38%	0.00%	0.00%	0.00%	0.00%	
9	286683	4917656	-2.59	0.3303	0.31%	1.36%	2.05%	2.52%	3.37%	2.49%	30.43%	47.63%	8.72%	0.74%	0.38%	0.00%	0.00%	0.00%	0.00%	0.00%	
10	286756	4917595	-4.17	0.2672	0.78%	3.59%	7.84%	10.11%	8.77%	7.37%	16.14%	17.34%	5.34%	16.85%	5.89%	0.00%	0.00%	0.00%	0.00%	0.00%	
11	286705	4917506	-3.17	0.2911	0.41%	1.61%	2.76%	3.31%	3.90%	8.77%	32.27%	38.00%	8.17%	0.21%	0.56%	0.05%	0.00%	0.00%	0.00%	0.00%	
12	286825	4917512	-4.40	0.1939	0.47%	1.77%	3.46%	4.91%	4.59%	11.26%	34.65%	32.05%	6.84%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
13	286957	4917525	-4.77	0.1981	0.65%	2.30%	3.66%	4.80%	3.73%	10.40%	45.72%	28.40%	0.34%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
14	286882	4917625	-4.61	0.2066	0.49%	1.90%	3.04%	4.05%	3.80%	11.85%	42.69%	30.27%	1.90%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
15	286805	4917696	-4.18	0.1710	0.64%	2.24%	4.34%	5.72%	6.91%	15.81%	33.66%	26.76%	3.92%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
16	286944	4917739	-4.92	0.2038	0.39%	1.42%	2.13%	3.39%	2.07%	7.89%	49.69%	30.97%	0.98%	1.05%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	
17	286876	4917811	-4.68	0.1899	0.46%	1.69%	2.77%	3.99%	2.76%	10.83%	47.21%	29.80%	0.51%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
18	286793	4917845	-4.11	0.1801	0.46%	1.72%	3.27%	4.51%	4.06%	10.36%	40.40%	32.56%	2.08%	0.49%	0.09%	0.00%	0.00%	0.00%	0.00%	0.00%	
19	286775	4917912	-3.72	0.2320	0.21%	1.09%	1.71%	2.37%	2.72%	2.49%	33.73%	47.01%	8.66%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	286925	4917936	-5.02	0.1858	0.41%	1.38%	2.54%	3.78%	2.39%	13.70%	42.67%	30.35%	2.80%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	