

Table 1. Landscape sediment characterization of the four biogeographic zones. Summary statistics (mean, standard deviation, Skewness, Kurtosis) are based on the logarithmic Folk and Ward method are shown in both μm and ϕ scale. The distribution spread (D10-D90) of grain sizes is calculated as the difference between the grain size (D10) where 10% of grains are coarser and the grain size (D90) where 90% of the grains are coarser. D50 is the median grain size.

Zone	Reef Flat	Fore Reef	Tidal Channel	Seagrass
N	7	10	4	8
Mean grain size (μm)	2819	2352	2546	1953
SD grain size (μm)	2.15	2.19	2.54	2.39
Mean grain size (ϕ)	0.54	0.63	0.43	0.66
SD grain size (ϕ)	1.11	1.13	1.35	1.25
Skewness	-0.379	-0.295	-0.107	-0.052
Kurtosis	1.137	1.025	0.987	0.965
Sorting	Poorly Sorted	Poorly Sorted	Poorly Sorted	Poorly Sorted
Texture	Gravelly Sand	Gravelly Sand	Gravelly Sand	Gravelly Sand
% Gravel	15.4	13.6	16.8	14.8
% Sand	84.1	85.6	82.1	84.4
% Mud ($>63 \mu\text{m}$)	0.5	0.8	1.1	0.7
D10 (μm)	2164	2123	2189	2130
D50 (μm)	865	779	750	641
D90 (μm)	227	212	194	192
D10-D90 (μm)	1937	1911	1995	1938