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Supplementary Materials

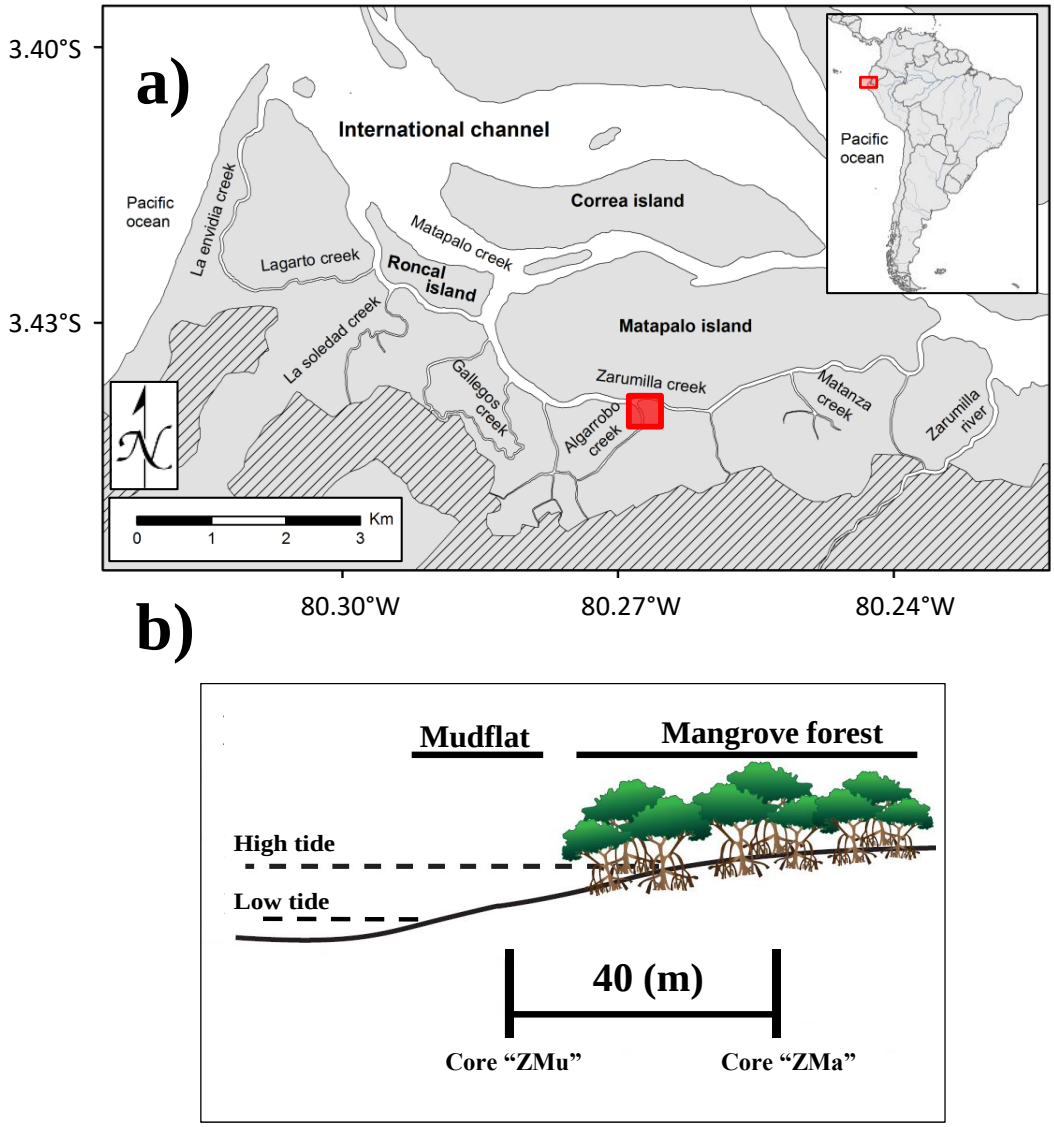

Figure S1: (**a**) Map of the study area within the Mangrove Sanctuary. Red square indicates the sampling site. (**b**) Spatial location of sampling sites within both sedimentary environments. Sediment cores within mangrove-covered (ZMa) and mudflat (ZMu) zones.

Table S1. Isotopic values ± SD for carbon ($\delta^{13}C$) from fresh *Rhizophora mangle* leaves and roots. The samples were collected by duplicate from trees within the interior and border of the mangrove-covered zone (30 m distance) within the sampling site.

Sedimentary Environment	$\delta^{13}C$ (‰)
Mangrove-covered zone border tress	−29.2 ± 0.7
Mangrove-covered zone interior trees	−33.6 ± 0.4