



Supplementary Materials for

The effect of mudbank morphometrics and coastal morphology on multi-decadal coastline changes in the Guianas

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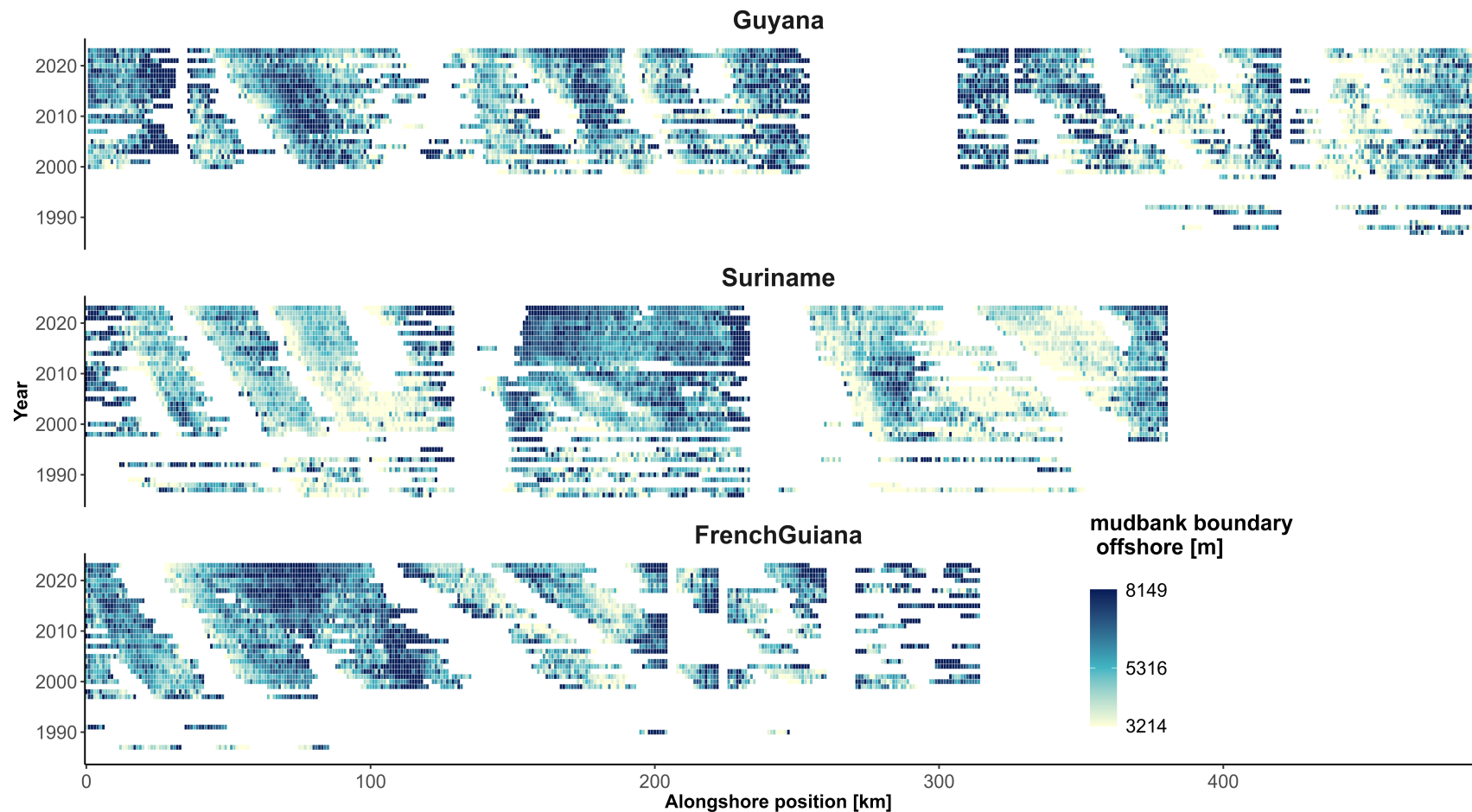


Figure S1.

Spatial and temporal variability in mudbank morphometrics between 1985 and 2023 for French Guiana, Suriname and Guyana. Colors indicate the distance to the offshore mudbank boundary for the individual transects that are linked to the presence of a mudbank. Along the x-axis the alongshore distance is shown from west to east, where each country is shown separately. Alongshore connected pixels represent the length of a mudbank. Near river-mouths observations are excluded from these analysis, similarly missing Landsat observations, often before 1999 are also clearly visible.

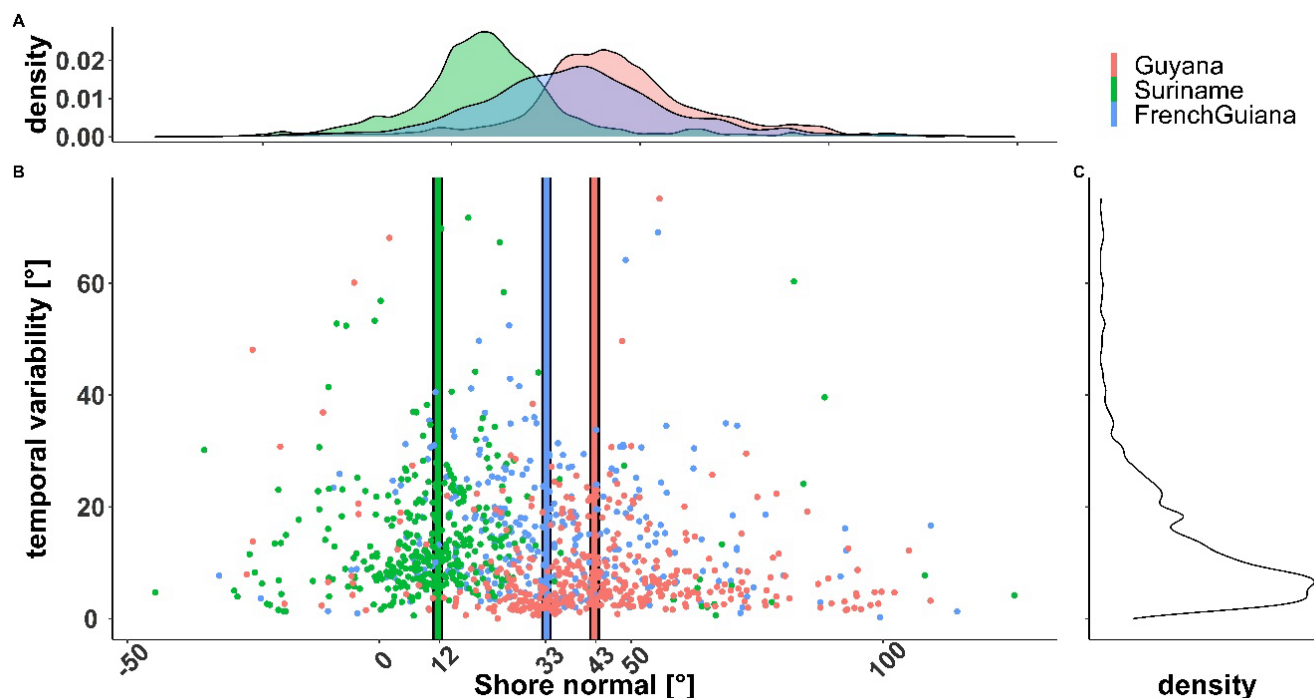


Figure S2

The spatial variability in mean shore-normal orientation compared to the temporal variation indicated by the standard deviation for each transect (y-axis). The top panel shows the distribution of shore-normal orientation for each country and the side panel the density distribution of standard deviation values found for each separate transect. Higher standard deviations suggest larger spread of shore-normal-orientation and thus more temporal variation and occasional outliers in the dataset.

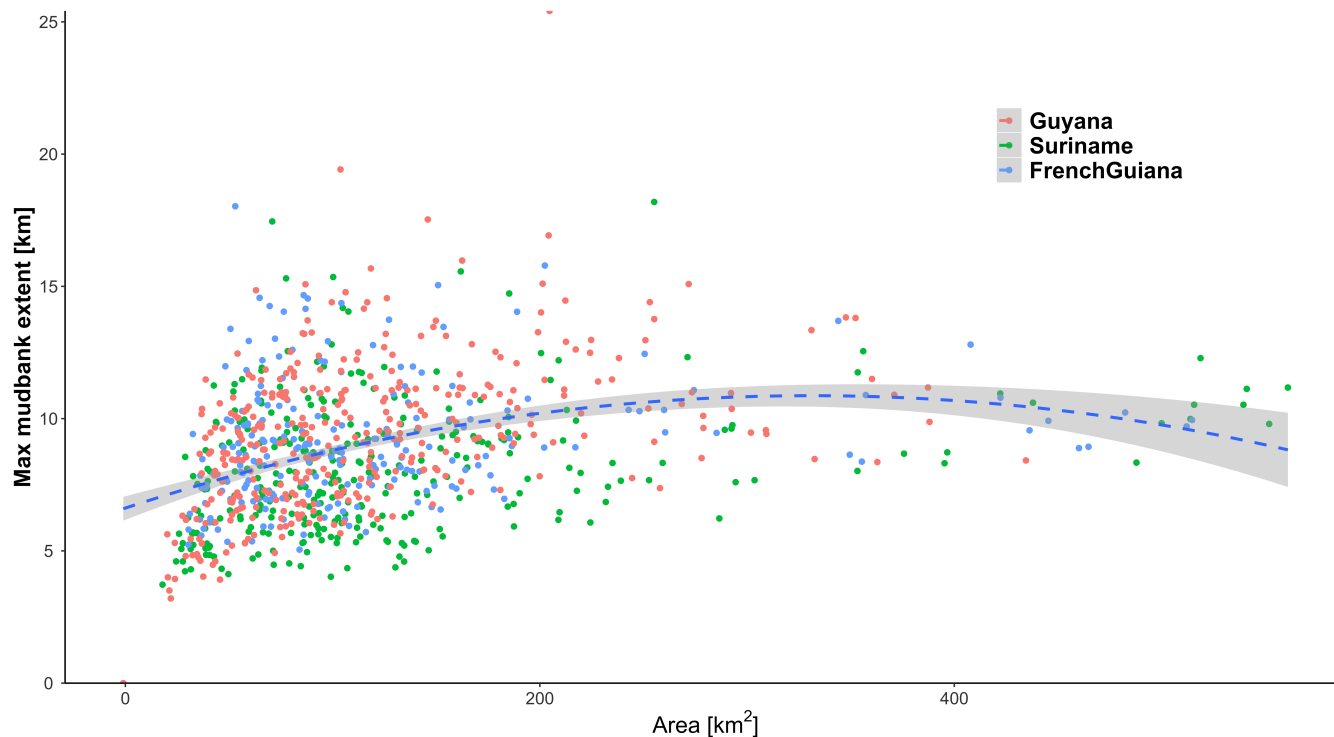


Figure S3.

Range of observed mudbank extents (y-axis) in relation to their total area (x-axis) in French Guiana, Suriname and Guyana (colored dots).