Captions for Supplementary files

Table S1. Summary of coral reef benthic community percent composition data by region and location.

Table S2. Summary of coral recruit community density data (#/m^2) by region and location.

Table S3. Summary of *in situ* water quality parameters data by region and location.

Table S4. Annual values of remotely sensed water quality parameters (2017-2020) across study locations.

Table S5. Distance-based linear model analysis (DISTLM) of the impact of the normalized maximum annual values of remotely sensed water quality parameters (2017-2020) on coral recruit abundance.

Figure S1. Shade plot based on the √-density (#/m^2) of coral recruits by species x region x location. Refer to the Methodology for the description of acronyms.

Figure S2. Bubble plot based on a non-metric multidimensional scaling analysis (nMDS) on the √-density (#/m^2) of all coral recruits by region and by sampling location. Refer to the Methodology for the description of acronyms. Stress level= 0.01.

Figure S3. Bubble plot based on a non-metric multidimensional scale analysis (nMDS) on the species richness (S) of all recruits by region and by locality. Refer to the Methodology for the description of acronyms.

Figure S4. Running mean, maximum and minimum values of remotely sensed water quality parameters (2017-2020) across study locations: A) Sea surface temperature anomaly (°C); B) Light extinction coefficient Log_{10} Kd_{490} m^{-1}; C) Chlorophyll-*a* concentration (mg m^{-3}); D) Net primary productivity (mg C m^{-2} day^{-1}); E) Particulate organic carbon concentration (mg m^{-3}); and F) Particulate organic carbon concentration (Log_{10} mol m^{-3}).

Figure S5. Distance-based redundant analysis (dbRDA) of the impact of the normalized maximum annual values of remotely sensed water quality parameters (2017-2020) on coral recruit abundance by region and location. This solution explains 97.96% of the observed fitted variation and 58.31% of the total variation. Refer to the Methodology for the description of acronyms.