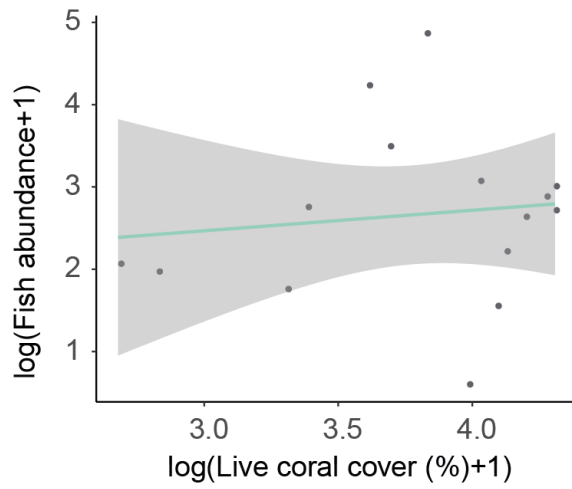


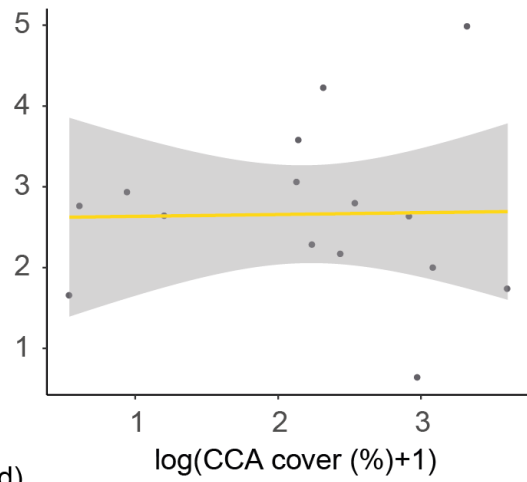
Electronic Supplementary Materials

Fig. 10S Linear regression models displaying environmental variables significantly impacting total abundance of focal functional groups of fish (all functional groups pooled) in different habitat categories (coral reef, seagrass meadows and macroalgal areas); fish abundance plotted against live coral cover ($p < 0.05$) in coral reef habitats, *b*) CCA cover in coral reef habitats, habitat ($p < 0.01$), *c*) macroalgal cover in macroalgal habitats ($p < 0.05$), *d*) macrophyte height in macroalgal habitats ($p < 0.01$) and *e*) rugosity in macroalgal habitats ($p < 0.01$). Territorial herbivores (farmer fish) were removed from the analysis as roving nominally herbivores and detritivores were the focus groups

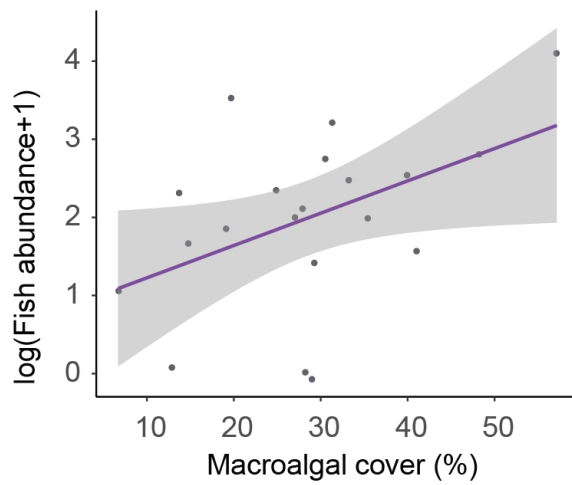
a)



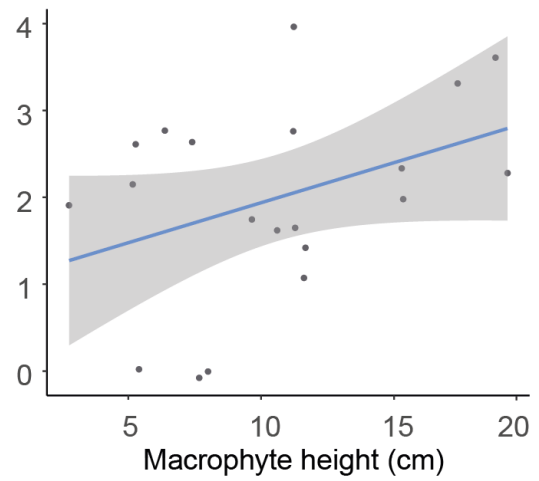
b)



c)



d)



e)

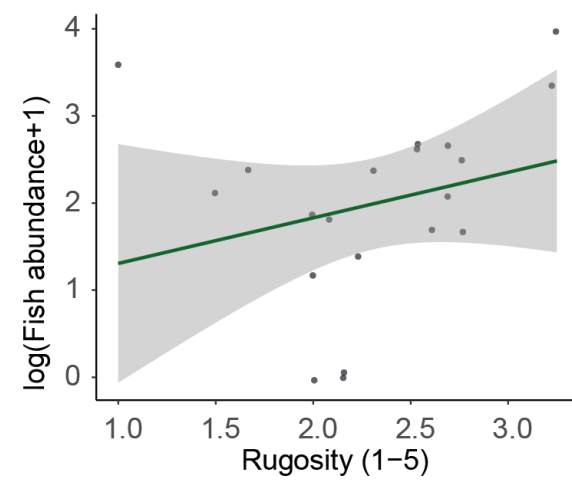
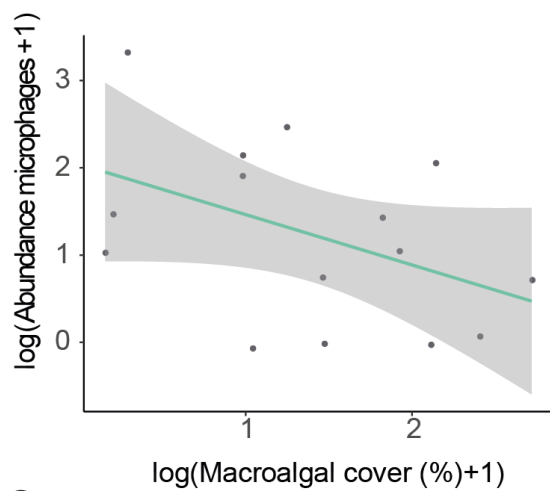
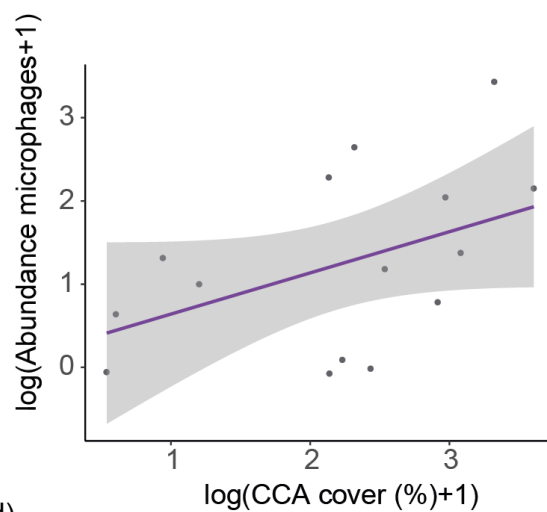


Fig. 11S Graphs from mixed linear regression models displaying environmental variables significantly impacting abundance of functional groups of herbivores in different habitat categories (coral reefs and macroalgal areas) from the UVCs; *a*) abundance of microphagous fish and macroalgal cover ($p < 0.05$) in coral reef habitats, *b*) abundance of microphagous fish and CCA cover in coral reef habitats, *c*) abundance of seagrass-/algivores and predatory fish ($p = 0.001$) in macroalgal habitats, *d*) abundance of microphagous fish and macroalgal cover ($p < 0.001$) in macroalgal habitats, *e*) abundance of microphagous fish and macrophyte height ($p = 0.01$) in macroalgal habitats. Shaded areas denote partial residuals

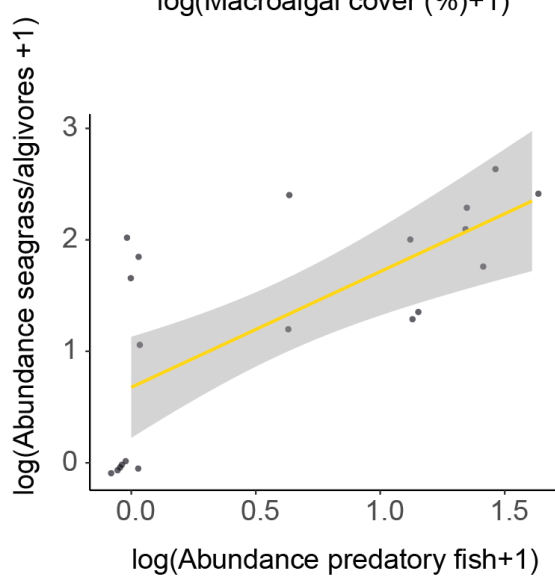
a)



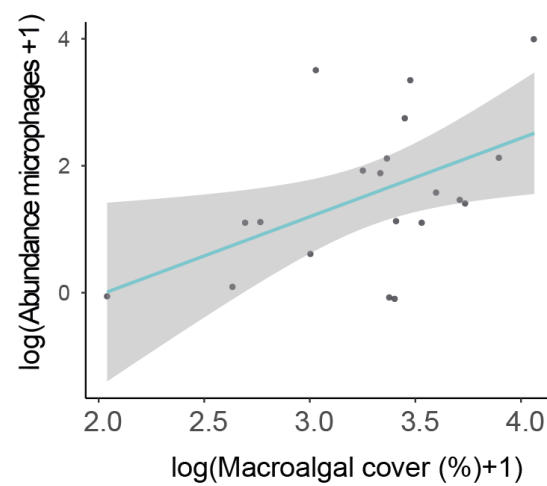
b)



c)



d)



e)

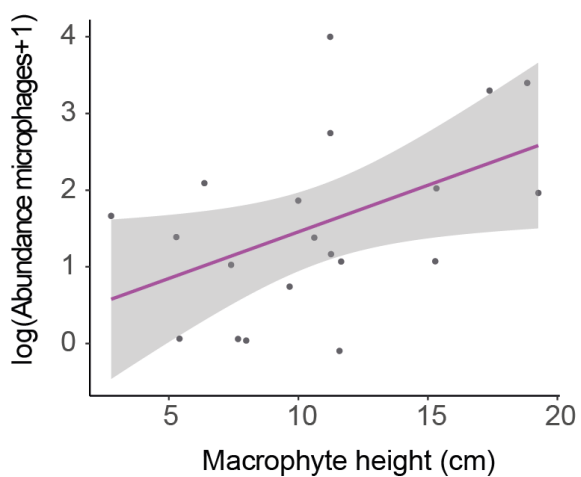


Table 6S Mean abundance of seagrass-/algivores, detritivores and microphagous fish from UVCs, $\pm$ standard error. Letters in brackets denote functional group; D: detritivore SA: seagrass-/algivores, M: microphage and TG: territorial grazer (farmer) and n = number of transects. RUV and UVC denote fish observed in remote underwater videos or in underwater visual census

Species	Habitat type		
	Coral	Macroalgae	Seagrass
<i>Acanthuridae</i> spp (SA)	0.267 $\pm$ 0.15 RUV + UVC	0.05 $\pm$ 0.05 RUV + UVC	0.384 $\pm$ 0.27 UVC
<i>Acanthurus leucosternon</i> (SA)	0.60 $\pm$ 0.21 RUV + UVC		RUV
<i>A. nigrofuscus</i> (SA)	0.867 $\pm$ 0.50 RUV + UVC	0.1 $\pm$ 0.09 UVC	
<i>A. triostegus</i> (SA)	0.067 $\pm$ 0.07 RUV + UVC	0.25 $\pm$ 0.21 RUV + UVC	RUV
<i>A. xanthopterus</i> (D)	0.40 $\pm$ 0.24 UVC		
<i>Calotomus</i> spp (SA)	RUV	RUV	RUV
<i>C. carolinus</i> (SA)	0.067 $\pm$ 0.07 RUV + UVC	0.15 $\pm$ 0.08 UVC	RUV
<i>C. spinidens</i> (SA)	RUV		RUV
<i>Centropyge multispinis</i> (SA)	1.467 $\pm$ 0.27 RUV + UVC	0.667 $\pm$ 0.30 RUV + UVC	
<i>Cetoscarus ocellatus</i> (M)	RUV	0.10 $\pm$ 0.07 UVC	
<i>Chaetodon klenii</i> (SA)	0.467 $\pm$ 0.22 UVC	0.15 $\pm$ 0.11 UVC	2.231 $\pm$ 1.24 RUV + UVC
<i>Chlorurus sordidus</i> (M)	3.071 $\pm$ 1.43 RUV + UVC	0.10 $\pm$ 0.1 RUV + UVC	4.231 $\pm$ 1.57 RUV + UVC
<i>Chrysiptera biocellata</i> (SA)	0.067 $\pm$ 0.07 UVC	0.8 $\pm$ 0.33 UVC	
<i>C. unimaculata</i> (SA)	0.067 $\pm$ 0.07 UVC	1.9 $\pm$ 0.64 UVC	0.308 $\pm$ 0.24 UVC
<i>Ctenochaetus</i> sp (D)	RUV		RUV
<i>C. binotatus</i> (D)	0.40 $\pm$ 0.19 UVC	0.05 $\pm$ 0.05 UVC	
<i>C. striatus</i> (D)	0.60 $\pm$ 0.19 RUV + UVC		RUV
<i>C. truncatus</i> (D)	1.267 $\pm$ 0.27 UVC		

<i>Kyphosus</i> spp (SA)	RUV		
<i>K. cinerascens</i> (SA)	RUV		
<i>Leptoscarus vaigiensis</i> (SA)		0.05 ± 0.05 UVC	1.00 ± 0.48 RUV + UVC
<i>Naso brachycentron</i> (SA)	RUV		
<i>N. brevirostris</i> (SA)	11.2 ± 5.54 RUV + UVC		
<i>N. elegans</i> (SA)	RUV		
<i>Plectroglyphidodon lacrymatus</i> (TG)	6.438 ± 1.64 RUV + UVC	3.25 ± 1.18 RUV + UVC	
<i>Scarus</i> spp (M)	3.867 ± 1.86 RUV + UVC	4.95 ± 1.6 RUV + UVC	0.308 ± 0.17 RUV + UVC
<i>S. falcipinnis</i> (M)		RUV	
<i>S. festivus</i> (M)	RUV		
<i>S. frenatus</i> (M)	0.667 ± 0.19 RUV + UVC	2.25 ± 1.48 RUV + UVC	
<i>S. ghobban</i> (M)	RUV	1.70 ± 1.11 RUV + UVC	1.461 ± 1.22 RUV + UVC
<i>S. niger</i> (M)	0.067 ± 0.07 UVC		
<i>S. psittacus</i> (M)	0.067 ± 0.07 RUV + UVC	RUV	
<i>S. rubroviolaceus</i> (M)		0.150 ± 0.08 UVC	
<i>S. scaber</i> (M)	0.20 ± 0.11 RUV + UVC		
<i>Siganus</i> spp (SA)	RUV	RUV	RUV
<i>S. luridus</i> (SA)	RUV		RUV
<i>S. stellatus</i> (SA)	RUV		
<i>S. sutor</i> (SA)	RUV	0.05 ± 0.05 RUV + UVC	1.538 ± 0.86 RUV + UVC
<i>Stegastes nigricans</i> (TG)	6.60 ± 4.50 UVC	2.25 ± 1.23 RUV + UVC	
<i>Zebrasoma scopas</i> (SA)	1.867 ± 0.42 RUV + UVC		0.154 ± 0.15 RUV + UVC

Table 7S Mean value of measured environmental variables in transects within the different habitat types, $\pm$ standard error

Environmental variables	Habitat type		
	Coral ($n = 15$)	Macroalgae ($n = 20$)	Seagrass ($n = 13$)
Soft substrate (%)	1.398 ± 0.69	44.781 ± 4.39	99.239 ± 0.71
Calcareous rubble (%)	50.137 ± 4.98	52.766 ± 4.56	0.649 ± 0.71
Live coral cover (%)	48.465 ± 5.26	2.453 ± 0.40	0.112 ± 0.13
Rugosity (1-5)	3.176 ± 0.19	3.404 ± 0.12	1.026 ± 0.02
Depth (m)	3.000 ± 0.0	1.835 ± 0.15	2.846 ± 0.29
Macroalgae cover (%)	4.348 ± 1.04	28.50 ± 2.75	0.090 ± 0.09
Seagrass cover (%)	0.210 ± 0.18	6.324 ± 1.90	94.125 ± 2.15
EAM cover (%)	33.658 ± 4.56	18.00 ± 2.22	0.590 ± 0.39
CCA cover (%)	11.951 ± 2.63	6.989 ± 1.46	0.077 ± 0.02
Rugosity (1-5)	3.176 ± 0.19	3.404 ± 0.12	1.026 ± 0.02
Macrophyte height (cm)	2.223 ± 0.41	10.813 ± 1.02	54.457 ± 4.32
No of macrophyte species	2.600 ± 0.32	8.800 ± 0.49	1.769 ± 0.39
Depth (m)	3.000 ± 0.0	1.835 ± 0.15	2.846 ± 0.29
No of predatory fish	1.067 ± 0.25	1.200 ± 0.31	0.846 ± 0.37