

Predator declines and morphological changes in prey: evidence from coral reefs depleted of sharks

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Table S1. Sampling sites within each reef system and number of focal fishes collected from each site.

Reef System	Site	ID	Latitude	Longitude	Sample Size
Rowley Shoals	Clerke_1	C1	-17.310922°	119.384049°	46
Rowley Shoals	Clerke_2	C2	-17.318648°	119.384115°	50
Rowley Shoals	Clerke_3	C3	-17.334702°	119.385072°	6
Rowley Shoals	Imper_1	I1	-17.498763°	118.948741°	51
Rowley Shoals	Imper_2	I2	-17.500610°	118.956236°	1
Rowley Shoals	Imper_3	I3	-17.512937°	118.967571°	50
Rowley Shoals	Imper_4	I4	-17.523624°	118.969317°	40
Rowley Shoals	Imper_5	I5	-17.530923°	118.972123°	7
Rowley Shoals	Merm_1	M1	-17.143384°	119.673318°	40
Scott Reefs	North Scott	NS	-13.948679°	121.927927°	118
Scott Reefs	South Scott	SS	-14.059837°	121.787973°	202

Table S2. Pearson's correlation analyses between caudal fin area (CFA) versus caudal fin length (CFL) and caudal fin height (CFH); eye area (EA) versus eye diameter (ED); fork length (FL) versus body width (BW). Values are Pearson's r for each comparison with associated level of significance, * = $P \leq 0.01$, ** = $P \leq 0.001$, *** = $P \leq 0.0001$.

Species		CFL	CFH		ED		BW
<i>L. kasmira</i>	CFA	0.84***	0.86***	EA	0.93***	FL	0.69***
<i>C. sordidus</i>	CFA	0.81***	0.89***	EA	0.91***	FL	0.73***
<i>L. decussatus</i>	CFA	0.8***	0.84***	EA	0.86***	FL	0.75***
<i>M. grandoculis</i>	CFA	0.93***	0.89***	EA	0.98***	FL	0.91***
<i>L. gibbus</i>	CFA	0.87***	0.73***	EA	0.88***	FL	0.78***
<i>C. microrhinos</i>	CFA	0.87***	0.91***	EA	0.92***	FL	0.72***
<i>L. bohar</i>	CFA	0.97***	0.97***	EA	0.97***	FL	0.97***

Table S3. Means, standard errors (Std. Er.) for five fish morphological variables paired between the Rowley Shoals (sharks abundant) and the Scott Reefs (sharks depleted). Species are ordered by row from smallest to largest mean fork length. CFL = caudal fin length, CFH = caudal fin height, CFA = caudal fin area, ED = eye diameter, EA = eye area. N = sample size for each comparison and indicated for each location in parentheses as (N Rowley Shoals, N Scott Reefs).

Species	Variable	N	Rowley Shoals (RS)			Scott Reefs (SR)		
			Mean	±	Std. Er.	Mean	±	Std. Er.
<i>L. kasmira</i>	CFL	(35, 52)	4.96	±	0.12	4.63	±	0.08
<i>C. sordidus</i>	CFL	(51, 48)	3.25	±	0.10	2.90	±	0.10
<i>L. decussatus</i>	CFL	(48, 41)	5.04	±	0.09	4.82	±	0.08
<i>M. grandoculis</i>	CFL	(47, 51)	6.37	±	0.23	6.15	±	0.18
<i>L. gibbus</i>	CFL	(41, 39)	7.80	±	0.20	7.69	±	0.17
<i>C. microrhinos</i>	CFL	(34, 50)	6.97	±	0.29	6.79	±	0.24
<i>L. bohar</i>	CFL	(35, 39)	9.47	±	0.39	9.18	±	0.46
<i>L. kasmira</i>	CFH	(35, 52)	5.29	±	0.22	4.63	±	0.12
<i>C. sordidus</i>	CFH	(51, 48)	4.42	±	0.13	3.53	±	0.11
<i>L. decussatus</i>	CFH	(48, 41)	5.58	±	0.14	4.82	±	0.12
<i>M. grandoculis</i>	CFH	(47, 51)	7.06	±	0.31	6.42	±	0.23
<i>L. gibbus</i>	CFH	(41, 39)	7.99	±	0.25	6.93	±	0.17
<i>C. microrhinos</i>	CFH	(34, 50)	9.70	±	0.39	7.80	±	0.30
<i>L. bohar</i>	CFH	(35, 39)	12.60	±	0.65	11.58	±	0.74
<i>L. kasmira</i>	CFA	(35, 52)	14.73	±	0.62	12.14	±	0.38
<i>C. sordidus</i>	CFA	(51, 48)	11.84	±	0.62	8.11	±	0.40
<i>L. decussatus</i>	CFA	(48, 41)	16.77	±	0.60	13.46	±	0.41
<i>M. grandoculis</i>	CFA	(47, 51)	28.04	±	2.67	24.19	±	1.82
<i>L. gibbus</i>	CFA	(41, 39)	40.36	±	1.73	34.31	±	1.43
<i>C. microrhinos</i>	CFA	(34, 50)	51.82	±	3.24	39.13	±	2.36
<i>L. bohar</i>	CFA	(35, 39)	72.23	±	6.16	63.69	±	6.07
<i>L. kasmira</i>	ED	(35, 52)	2.13	±	0.06	1.98	±	0.04
<i>C. sordidus</i>	ED	(51, 48)	1.14	±	0.03	0.98	±	0.02
<i>L. decussatus</i>	ED	(48, 41)	1.76	±	0.05	1.55	±	0.03
<i>M. grandoculis</i>	ED	(47, 51)	3.01	±	0.09	2.57	±	0.07
<i>L. gibbus</i>	ED	(40, 39)	2.61	±	0.06	2.32	±	0.04
<i>C. microrhinos</i>	ED	(31, 50)	1.78	±	0.05	1.40	±	0.03
<i>L. bohar</i>	ED	(35, 39)	3.36	±	0.13	2.78	±	0.11
<i>L. kasmira</i>	EA	(35, 52)	2.92	±	0.14	2.56	±	0.09
<i>C. sordidus</i>	EA	(51, 48)	0.89	±	0.05	0.70	±	0.02
<i>L. decussatus</i>	EA	(48, 41)	2.00	±	0.10	1.66	±	0.06
<i>M. grandoculis</i>	EA	(46, 51)	6.45	±	0.39	4.77	±	0.27
<i>L. gibbus</i>	EA	(40, 39)	4.91	±	0.20	3.67	±	0.15
<i>C. microrhinos</i>	EA	(31, 50)	2.18	±	0.11	1.40	±	0.05
<i>L. bohar</i>	EA	(35, 39)	7.93	±	0.57	5.68	±	0.39

Figure S1. Morphological measurements of (A) Caudal fin length, CFL; Caudal fin height, CFH; (B) Caudal fin area, CFA; (C) Eye area, EA; and (D) Eye diameter (ED).

