

The following supplement accompanies the article

Regional variability in the sensitivity of Caribbean reef fish assemblages to ocean warming

Ravi R. Maharaj*, Vicky W.Y. Lam, Daniel Pauly, William W. L. Cheung

*Corresponding author: r.maharaj@oceans.ubc.ca

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Table S1: Estimated temperature preference and coral habitat affinity of taxa present in the catch records of the 9 countries used in the analyses

Common Name	Median temperature preference, °C	Mean trophic level	Coral habitat affinity
Northern red snapper	22	4.01	0.50
Cero	24	4.48	0.75
Grey triggerfish	24	3.44	0.50
Sheepshead seabream	25	3.53	0.50
Bermuda sea chub	26	2	0.50
Lane snapper	26	3.82	0.75
Nassau grouper	26	4.14	0.25
Red hind	26	3.88	0.50
Tarpon	26	4.5	0.25
Atlantic tripletail	27	4	0.50
Black grouper	27	4.5	0.50
Cobia	27	4.31	0.50
Coney	27	4.05	0.75
Great barracuda	27	4.5	0.25
Vermilion snapper	27	4.33	0.50
Yellowfin grouper	27	4.49	0.50
Hound needlefish	28	4.47	0.25
Rainbow runner	28	3.59	0.75

Table S2: Total catch and proportion contribution of the taxa included in the analyses for each country

BAHAMAS		
Common Name	Total Catch	Catch Proportion
Nassau grouper	18590.648	0.320
Black grouper	8528.934	0.147
Yellowfin grouper	7257.586	0.125
Red hind	7112.919	0.122
Northern red snapper	5922.622	0.102
Lane snapper	5654.441	0.097
Great barracuda	4960.636	0.085
Cero	49.187	0.001
Blacktip shark	0.131	0.000
BELIZE		
Common Name	Total Catch	Catch Proportion
Lane snapper	19863.562	0.269
Cero	18207.375	0.247
Great barracuda	8800.449	0.119
Nurse shark	7550.778	0.102
Scalloped hammerhead	6445.622	0.087
Northern red snapper	4354.632	0.059
Blacktip shark	3360.233	0.046
Cobia	1559.355	0.021
Sheepshead seabream	1559.355	0.021
Red hind	960.092	0.013
Nassau grouper	618.083	0.008
Black grouper	412.722	0.006
Tarpon	58.177	0.001
Yellowfin grouper	6.571	0.000
GRENADA		
Common Name	Total Catch	Catch Proportion
Red hind	11557.801	0.669
Cero	2356.453	0.136
Great barracuda	1399.169	0.081
Rainbow runner	975.343	0.056
Coney	958.482	0.055
Nassau grouper	7.399	0.000
Yellowfin grouper	6.571	0.000
Lane snapper	5.267	0.000
Northern red snapper	3.781	0.000
Scalloped hammerhead	0.292	0.000
Blacktip shark	0.030	0.000
HAITI		
Common Name	Total Catch	Catch Proportion
Northern red snapper	13657.974	0.588
Hound needlefish	4632.673	0.199
Coney	3901.198	0.168

Cero	1026.285	0.044
Nassau grouper	7.399	0.000
Yellowfin grouper	6.571	0.000
Red hind	5.316	0.000
Lane snapper	5.267	0.000
Great barracuda	2.223	0.000
Scalloped hammerhead	0.627	0.000
Blacktip shark	0.131	0.000

JAMAICA

Common Name	Total Catch	Catch Proportion
Red hind	13188.152	0.536
Coney	3839.244	0.156
Great barracuda	2066.421	0.084
Cero	1790.494	0.073
Nassau grouper	1495.694	0.061
Black grouper	1407.737	0.057
Lane snapper	666.860	0.027
Yellowfin grouper	55.991	0.002
Rainbow runner	49.012	0.002
Sheepshead seabream	26.657	0.001
Northern red snapper	3.781	0.000

MONTSERRAT

Common Name	Total Catch	Catch Proportion
Cero	1333.500	0.537
Red hind	754.791	0.304
Coney	295.460	0.119
Bermuda sea chub	44.407	0.018
Great barracuda	19.038	0.008
Northern red snapper	15.579	0.006
Nassau grouper	7.911	0.003
Lane snapper	5.482	0.002
Blacktip shark	1.727	0.001
Sheepshead seabream	1.489	0.001
Grey triggerfish	1.279	0.001
Hound needlefish	0.949	0.000
Tarpon	0.844	0.000
Rainbow runner	0.259	0.000

ST. VINCENT & THE GRENADINES

Common Name	Total Catch	Catch Proportion
Red hind	7869.221	0.439
Coney	4551.188	0.254
Cero	3778.926	0.211
Rainbow runner	1275.201	0.071
Great barracuda	440.649	0.025
Northern red snapper	12.101	0.001
Nassau grouper	7.399	0.000
Lane snapper	5.267	0.000
Scalloped hammerhead	0.292	0.000

Blacktip shark	0.007	0.000
TRINIDAD & TOBAGO		
Common Name	Total Catch	Catch Proportion
Tarpon	4131.093	0.515
Cero	3776.606	0.471
Blacktip shark	64.953	0.008
Nurse shark	7.918	0.001
Black grouper	7.573	0.001
Nassau grouper	7.399	0.001
Yellowfin grouper	6.571	0.001
Red hind	5.316	0.001
Lane snapper	5.267	0.001
Northern red snapper	3.781	0.000
Atlantic tripletail	3.027	0.000
Great barracuda	2.223	0.000
Scalloped hammerhead	1.025	0.000
VENEZUELA		
Common Name	Total Catch	Catch Proportion
Vermilion snapper	78461.924	0.566
Lane snapper	46195.683	0.333
Tarpon	7799.827	0.056
Cero	3178.824	0.023
Atlantic tripletail	2929.362	0.021
Blacktip shark	74.054	0.001
Nurse shark	7.918	0.000
Black grouper	7.573	0.000
Nassau grouper	7.399	0.000
Yellowfin grouper	6.571	0.000
Red hind	5.316	0.000
Scalloped hammerhead	5.147	0.000
Northern red snapper	3.781	0.000
Great barracuda	2.223	0.000

Table S3: Species removed from the catch record and the respective criteria violated

Common Name	Criterion violated
Atlantic thread herring	1
Bar jack	1
Black marlin	3
Caribbean spiny lobster	2
Common octopus	2
Greater amberjack	1
Indo-Pacific sailfish	3
King mackerel	1
Red grouper	1
Yellowtail snapper	1

Table S4: Countries assessed when selection criteria for catch composition are relaxed to at least 3 taxa

Country	PRH (km ²)	Δ SST	Δ MTC	Δ MTL
Trinidad & Tobago	40	0.18	0.62	0.00
Venezuela	670	0.17	0.16	0.05
Puerto Rico	267	0.17	0.02	-0.01
Grenada	213	0.17	0.48	-0.08
Montserrat	94	0.16	0.49	-0.15
St. Vincent & the Grenadines	225	0.16	0.57	-0.11
St. Lucia	129	0.16	0.72	-0.55
Dominican Republic	308	0.14	0.01	-0.02
Haiti	958	0.13	0.04	-0.01
Jamaica	197	0.11	0.00	-0.01
Bahamas	2869	0.06	-0.10	-0.02
Belize	1552	0.04	0.04	-0.01
Cuba	2229	0.04	0.00	-0.02

Table S5: Model statistics when countries with at least 3 taxa are used in the analyses

Model specification	Predictors	Coefficient	p-value	R ²	AIC
MTC ~ SST + PRH + SST*PRH+MTL	SST	0.635	<0.001	0.855	539
	PRH	10.993	0.001		
	SST*PRH	-0.389	<0.001		
	MTL	-1.159	<0.001		
MTC~SST + PRH + MTL	SST	0.425	<0.001	0.851	553
	PRH	0.303	0.221		
	MTL	-1.191	<0.001		
MTC ~ SST + MTL	SST	0.424	<0.001	0.845	551
	MTL	-1.192	<0.001		