

Table S1. Minimum, maximum and mean stable isotope values by month, depth strata, structure type and sex for 456 Red Snapper collected in 2016. Mean errors expressed as standard deviation.

Month	Strata	n	$\delta^{13}\text{C}$				$\delta^{15}\text{N}$			
			min	max	mean	SD	min	max	mean	SD
April	Shallow	29	-17.09	-16.32	-16.61	0.19	13.35	14.43	14.00	0.27
	Mid	19	-18.16	-16.42	-16.73	0.40	12.84	15.12	14.00	0.48
	Deep	14	-17.45	-16.10	-16.64	0.32	13.54	15.02	14.11	0.44
May	Shallow	16	-17.61	-16.72	-17.09	0.31	13.90	15.43	14.37	0.42
	Mid	88	-17.93	-15.98	-16.67	0.43	13.67	15.12	14.44	0.33
	Deep	33	-17.68	-16.30	-16.85	0.42	13.72	15.79	14.37	0.54
June	Shallow	1			-17.94				14.23	
	Mid	9	-17.16	-16.55	-16.74	0.18	14.06	14.55	14.34	0.15
	Deep	1			-16.75				13.98	
July	Shallow	0								
	Mid	49	-18.04	-16.42	-16.95	0.35	13.21	15.18	14.27	0.41
	Deep	7	-17.58	-16.76	-17.08	0.27	12.99	14.35	14.04	0.48
August	Shallow	2	-16.44	-16.13	-16.28	0.22	14.00	14.45	14.23	0.32
	Mid	14	-16.74	-16.16	-16.50	0.18	13.59	14.33	14.10	0.20
	Deep	33	-17.35	-16.28	-16.72	0.28	13.15	15.15	14.14	0.53
September	Shallow	11	-16.48	-16.07	-16.31	0.13	13.50	14.24	13.92	0.24
	Mid	32	-16.86	-16.24	-16.49	0.14	13.44	14.43	14.00	0.21
	Deep	17	-16.90	-16.33	-16.72	0.14	13.63	14.65	14.07	0.25
October	Shallow	36	-16.83	-15.93	-16.35	0.23	13.55	15.44	14.29	0.65
	Mid	34	-17.06	-15.94	-16.36	0.23	14.11	15.17	14.67	0.51
	Deep	11	-16.89	-16.37	-16.70	0.16	13.35	14.76	13.91	0.39
All	<b>Strata</b>									
	Shallow	95	-17.94	-15.93	-16.56	0.38	13.35	15.44	14.17	0.49
	Mid	245	-18.16	-15.94	-16.66	0.39	12.84	15.18	14.32	0.39
	Deep	116	-17.68	-16.10	-16.77	0.32	12.99	15.79	14.16	0.44
All	<b>Structure Type</b>									
	Art. Reef	212	-17.67	-15.94	-16.62	0.28	13.35	15.44	14.43	0.28
	Platform	244	-18.16	-15.93	-16.70	0.44	12.84	15.79	14.09	0.38
All	<b>Sex</b>									
	Female	215	-17.83	-15.94	-16.66	0.37	12.99	15.79	14.26	0.46
	Male	241	-18.16	-15.93	-16.67	0.38	12.84	15.44	14.24	0.41

Table S2. Minimum, maximum and mean stable isotope values by month, depth strata, structure type and sex for 406 Red Snapper collected in 2017. Mean errors expressed as standard deviation.

Month	Strata	n	$\delta^{13}\text{C}$				$\delta^{15}\text{N}$			
			min	max	mean	SD	min	max	mean	SD
April	Shallow	21	-18.53	-16.19	-16.83	0.71	13.29	14.89	13.84	0.48
	Mid	12	-17.34	-16.27	-16.67	0.31	14.69	15.31	14.98	0.22
	Deep	20	-19.68	-16.32	-17.80	0.77	12.33	14.70	13.66	0.50
May	Shallow	26	-21.13	-16.69	-17.48	0.89	12.96	15.13	13.68	0.59
	Mid	44	-19.90	-16.14	-16.91	0.59	13.07	15.54	14.29	0.76
	Deep	16	-18.33	-16.46	-17.38	0.61	11.71	14.27	13.47	0.59
June	Shallow	0								
	Mid	41	-20.63	-16.10	-17.36	1.18	13.43	15.32	14.29	0.62
	Deep	7	-19.88	-17.22	-17.84	0.99	13.75	14.86	14.17	0.36
July	Shallow	30	-20.31	-16.52	-17.67	0.87	12.96	15.20	13.72	0.46
	Mid	23	-19.05	-16.37	-17.07	0.65	13.83	15.17	14.74	0.29
	Deep	11	-18.52	-16.82	-17.28	0.56	13.94	14.64	14.27	0.25
August	Shallow	36	-21.82	-17.02	-17.67	1.22	13.98	14.69	14.33	0.20
	Mid	24	-22.20	-16.22	-17.48	1.25	14.11	14.89	14.52	0.52
	Deep	1			-22.65				14.65	
September	Shallow	14	-18.32	-16.47	-17.33	0.61	14.81	15.26	15.07	0.13
	Mid	30	-24.09	-16.49	-18.93	2.30	14.02	15.30	14.68	0.32
	Deep	3	-17.64	-16.53	-16.93	0.61	14.52	15.20	14.97	0.39
October	Shallow	17	-18.88	-16.95	-17.67	0.64	13.83	14.77	14.27	0.28
	Mid	22	-21.96	-16.82	-17.97	1.47	13.71	14.89	14.22	0.31
	Deep	8	-20.18	-16.61	-17.20	1.21	14.29	15.06	14.69	0.24
<b>Strata</b>										
	Shallow	144	-21.82	-16.19	-17.48	0.94	12.96	15.26	14.08	0.58
	Mid	196	-24.09	-16.10	-17.51	1.45	13.07	15.54	14.47	0.55
	Deep	66	-22.65	-16.32	-17.58	1.02	11.71	15.20	13.97	0.64
<b>Structure Type</b>										
	Art. Reef	134	-20.98	-16.10	-17.09	0.88	13.12	15.54	14.67	0.52
	Control	2	-17.39	-17.26	-17.32	0.09	13.92	13.98	13.95	0.04
	Platform	270	-24.09	-16.19	-17.72	1.32	11.71	15.26	14.04	0.55
<b>Sex</b>										
	Female	213	-23.48	-16.10	-17.56	1.24	11.71	15.49	14.25	0.62
	Male	193	-24.09	-16.14	-17.46	1.20	12.96	15.54	14.25	0.61

Table S3. Crustacean prey minimum, maximum and mean stable isotope values by depth strata and year. Mean error expressed as standard deviation.

Prey family	n	$\delta^{13}\text{C}$				$\delta^{15}\text{N}$			
		Min	Max	Mean	SD	Min	Max	Mean	SD
<b>Penaeidae</b>	<b>20</b>	-23.5	-16.9	-19.0	1.6	6.3	12.7	10.6	1.5
Shallow 2016	1			-16.9				11.3	
Mid 2016	8	-19.9	-16.9	-18.6	1.1	9.0	12.6	10.8	1.2
Deep 2016	1			-17.3				11.2	
Shallow 2017	2	-23.5	-18.0	-20.8	3.9	9.1	10.8	10.0	
Mid 2017	5	-21.1	-18.3	-20.0	1.1	6.3	6.3	10.5	2.5
Deep 2017	3	-18.8	-17.0	-18.1	1.0	10.0	10.8	10.4	0.4
<b>Sergestidae (Mid 2017)</b>	<b>7</b>	-18.8	-18.3	-18.5	0.2	9.8	10.3	10.1	0.2
<b>Sicyoniidae</b>	<b>2</b>	-19.5	-17.9	-18.7	1.1	9.3	12.6	11.0	2.4
Shallow 2016	1			-19.5				9.3	
Deep 2016	1			-17.9				12.6	
<b>Albunidae</b>	<b>6</b>	-16.9	-15.5	-16.4	0.5	7.5	11.4	10.3	1.5
shallow 2016	4	-16.7	-15.5	-16.3	0.5	7.5	11.1	9.8	1.5
shallow 2017	2	-16.9	-16.3	-16.6	0.5	11.0	11.4	11.2	0.3
<b>Aethroidea (Mid 2016)</b>	<b>1</b>			-18.9				13.9	
<b>Hippoidea (Deep 2016)</b>	<b>2</b>	-17.5	-15.9	-16.7	1.1	11.0	12.3	11.7	0.9
<b>Minnipidae</b>	<b>3</b>			-15.9	4.3			10.3	2.1
Deep 2016	2	-18.5	-11.0	-14.8	5.3	7.9	11.0	9.4	2.2
Deep 2017	1			-18.3				12.0	
<b>Parthenopidae</b>	<b>3</b>	-17.6	-12.7	-15.5	2.5	9.5	10.7	10.0	0.6
Mid 2016	2	-17.6	-12.7	-15.1	3.4	9.5	9.9	9.7	0.3
Deep 2016	1			-16.3				10.7	
<b>Portunidae</b>	<b>99</b>			-17.8	1.2			9.7	2.2
Shallow 2016	18	-22.3	-14.9	-17.6	1.6	2.9	12.4	8.5	3.0
Mid 2016	29	-21.2	-13.4	-17.6	1.5	3.1	11.4	8.9	2.1
Deep 2016	4	-19.6	-17.5	-18.3	0.9	5.7	12.5	9.4	3.0
Shallow 2017	33	-19.3	-16.6	-17.7	0.6	6.8	12.6	10.9	1.1
Mid 2017	14	-19.7	-17.5	-18.3	0.6	5.5	12.1	9.8	2.0
Deep 2017	1			-17.5				12.4	
<b>Pseudorhombilidae</b>	<b>11</b>			-16.0	1.1			9.2	2.0
Mid 2016	6	-16.4	-14.5	-15.8	0.7	9.6	11.0	10.4	0.5
Shallow 2017	1			-18.8				8.5	
Mid 2017	2	-16.4	-16.1	-16.3	0.2	6.4	6.6	6.5	0.2
Deep 2017	2	-15.5	-14.9	-15.2	0.4	6.0	11.6	8.8	3.9
<b>Stomatopoda</b>	<b>96</b>	-21.5	-16.4	-18.9	1.1	1.6	14.0	8.7	3.1
Shallow 2016	6	-19.4	-17.3	-18.4	0.9	2.4	12.3	8.8	4.3
Mid 2016	43	-20.8	-16.4	-18.9	1.0	2.4	14.0	9.3	3.1
Deep 2016	13	-21.5	-18.2	-19.8	1.1	1.6	13.7	6.5	3.2
Shallow 2017	11	-21.1	-17.2	-18.5	1.1	4.4	12.2	9.4	2.3
Mid 2017	20	-21.0	-17.4	-19.1	1.1	3.0	11.9	8.0	2.5
Deep 2017	3	-18.2	-16.7	-17.6	0.8	11.4	12.8	12.1	0.7

Table S4. Fish prey minimum, maximum and mean stable isotope values by depth strata and year. Mean error expressed as standard deviation.

Prey family	n	$\delta^{13}\text{C}$				$\delta^{15}\text{N}$			
		Min	Max	Mean	SD	Min	Max	Mean	SD
<b>Antenariidae (Shallow 2016)</b>	1	-16.4	-16.4	-16.4		11.9	11.9	11.9	
<b>Bremacerotidae (Deep 2016)</b>	4	-17.4	-16.5	-16.9	0.4	5.1	11.6	9.8	3.1
<b>Clupeidae</b>	11	-26.9	-16.5	-20.9	3.7	10	13.9	12.8	1.4
Shallow 2017	1	-21.7	-21.7	-21.7		13.8	13.8	13.8	
Mid 2017	1	-26.9	-26.9	-26.9		13	13	13	
Deep 2016	5	-25	-16.5	-17.2	0.6	10	13.5	11.9	1.58
Deep 2017	4	-17.9	-16.5	-17.2	0.6	13.4	13.9	13.7	0.3
<b>Cynoglossidae (Mid 2016)</b>	4	-18.7	-17.4	-18.1	0.6	11.4	12.9	12.3	0.7
Mid 2016	1			-18				12.1	
Shallow 2017	1			-18.4				11.3	
Mid 2017	2	-18.8	-17.4	-18.1	1.0	12.8	12.9	12.9	0.1
<b>Dussumieriidae</b>	1			-17.5				12.4	
<b>Gobiidae (Deep 2016)</b>	5	-24.1	-16.4	-21.7	3	5.4	11.8	8.3	2.8
<b>Lutjanus</b>	23	-19.2	-7.2	-16.9	2.3	4.4	14.6	11.5	2.4
Shallow 2016	8	-18.7	-7.2	-16.4	3.8	4.4	12.9	10	3.1
Mid 2016	11	-19.2	-13.9	-17.5	1.6	5.8	14.7	11.7	2.6
Deep 2016	3	-17.8	-9.9	-14.7	4.2	7.6	12	10.3	2.4
Deep 2017	2	-18.2	-15.7	-16.9	1.7	1.4	12	11.7	0.4
<b>Ophichthidae</b>	17	-23.8	-16.5	-19.1	2.2	10.1	13.9	12.6	0.9
Shallow 2016	2	-16.9	-16.8	16.9	0.1	13.1	13.2	13.1	0.1
Mid 2016	2	-17	-16.8	-16.9	0.2	12.4	13.2	12.8	0.5
Deep 2016	1			-18.6				13.5	
Shallow 2017	5	-23.8	-16.5	-19.3	2.9	11.9	13.9	13.1	0.8
Mid 2017	3	-20.2	-17.2	-18.4	1.6	12.1	12.9	12.5	0.4
Deep 2017	6	-22.8	-17.8	-20.2	2.1	10.1	13.3	12.1	1.4
<b>Paralichthyidae (Shallow 2016)</b>	1			-20.5				13.9	
<b>Phycidae (Mid 2016)</b>	1			-17.1				12.9	
<b>Pomantomidae (Shallow 2017)</b>	1			-17.9				12.6	
<b>Sciaenidae</b>	11	-20.0	-13.4	-17.7	1.8	10.7	14.9	13.6	1.3
Shallow 2016	5	-18.8	-13.4	-17.0	2.2	10.7	14.2	13.1	1.4
Mid 2016	2	-19.7	-18.9	-19.3	0.5	12.0	14.5	13.2	1.8
Mid 2017	1			-20.0				14.4	
Deep 2017	3	-17.1	-16.8	-16.9	0.2	13.8	14.9	14.5	0.6
<b>Triglidae</b>	3			-17.8	2.4			11.5	1.0
Shallow 2016	1			-16.0				11.9	
Deep 2016	2	-17.8	-16.0	-16.9	1.2	10.8	12.1	11.5	1.0