

ANEXO 1

Porcentaje (%) de cobertura promedio (error estándar) del tipo de sustrato en los sitios de muestreo en el Área de Conservación Osa. ACC: Alga calcárea costrosa; AC: Alga costrosa; MA: Macroalga; (-): No se observó en los transectos. Ver número de sitios en el cuadro 1

Sitio	ACC	AC	MA	Rodolito	turf	coral	coral blanco	coral muerto	arena	cascajo	esponja	otro	Índice de Rugosidad
1	2.95±1.18	0.08±0.08	1.23±0.71	-	83.93±5.87	0.30±0.18	-	-	5.52±4.98	4.75±1.75	0.30±0.11	0.93±0.49	0.26±0.10
2	3.44±1.10	-	0.28±0.13	0.01±0.01	84.49±0.86	8.65±2.05	-	-	1.81±1.36	-	0.43±0.13	0.90±0.64	0.23±0.02
3	8.03±2.35	-	1.51±0.66	-	74.11±2.35	-	-	-	0.20±0.20	-	0.92±0.41	15.23±0.98	0.21±0.06
4	9.76±1.78	0.01±0.01	2.81±1.04	0.01±0.01	76.48±2.08	6.05±2.27	-	-	1.09±0.45	2.1±0.88	0.80±0.22	0.88±0.38	0.28±0.07
5	3.68±0.60	0.48±0.20	1.25±0.4	0.01±0.01	74.74±4.84	6.63±2.05	0.03±0.03	-	1.55±0.40	8.04±2.76	0.83±0.25	2.78±1.14	0.12±0.05
6	4.80±1.18	0.05±0.05	3.24±1.25	0.02±0.02	76.70±4.45	4.90±2.97	-	-	2.04±0.83	2.31±0.54	0.41±0.07	5.53±2.55	0.17±0.05
7	3.23±1.07	-	4.42±0.58	-	89.00±0.73	0.17±0.17	-	-	0.80±0.80	1.67±1.67	0.68±0.01	0.03±0.01	0.15±0.05
8	2.61±0.56	0.04±0.03	0.77±0.37	-	80.60±4.91	0.61±0.30	-	-	11.24±5.34	2.73±1.60	1.04±0.23	0.36±0.13	0.23±0.07
9	4.15±0.6	0.03±0.03	0.15±0.08	0.13±0.08	80.27±3.27	7.14±4.07	-	-	2.43±0.86	2.77±1.30	0.05±0.02	2.88±1.91	0.2±0.05
10	4.57±0.91	-	0.38±0.20	0.67±0.55	76.17±5.34	9.26±6.32	-	-	3.73±1.96	4.7±2.12	0.12±0.03	0.4±0.21	0.36±0.03
11	4.55±1.18	0.08±0.05	3.90±0.89	-	73.63±3.09	7.16±1.64	-	-	3.18±2.87	5.9±3.08	0.11±0.03	1.48±0.82	0.14±0.05
12	9.5±2.28	0.07±0.03	1.09±0.31	-	63.23±3.14	24.05±3.21	-	-	0.78±0.27	0.43±0.26	0.09±0.03	0.77±0.25	0.45±0.07
13	8.79±1.77	0.32±0.13	0.68±0.22	3.66±1.78	59.61±3.28	15.6±2.57	0.02±0.02	0.07±0.05	3.73±1.17	1.58±0.87	0.09±0.04	5.85±2.92	0.25±0.09
14	15.7±1.90	0.02±0.01	4.04±1.61	0.31±0.15	51.07±2.89	18.91±1.3	0.07±0.04	0.04±0.03	4.27±2.90	0.18±0.11	0.07±0.03	5.32±1.99	0.27±0.07
15	3.65±1.00	0.05±0.05	3.60±0.96	-	65.62±4.53	17.25±3.70	-	-	8.00±5.18	-	0.19±0.11	1.64±1.11	0.46±0.09
16	2.8±0.76	0.03±0.02	3.15±1.09	0.02±0.01	60.03±3.79	31.00±4.45	-	-	1.78±0.85	-	-	1.18±0.68	0.42±0.06
17	4.4±2.15	-	5.33±1.27	-	69.07±7.23	6.21±1.43	-	-	0.01±0.01	11.27±6.86	0.60±0.16	3.12±1.41	0.18±0.11
18	5.44±1.49	0.02±0.02	0.70±0.26	-	83.58±1.38	1.77±0.65	-	-	0.55±0.40	0.98±0.49	2.95±0.53	4.01±1.38	0.21±0.11
19	3.29±1.02	-	1.02±0.42	0.03±0.03	46.36±6.82	37.77±7.79	-	0.02±0.02	7.89±3.22	2.89±2.02	0.02±0.01	0.72±0.33	0.18±0.09
20	6.18±2.15	-	1.11±0.4	0.02±0.01	73.30±5.01	2.85±1.15	0.04±0.04	0.01±0.01	13.4±8.64	0.23±0.10	0.16±0.04	2.70±1.47	0.22±0.13
21	1.13±0.18	-	1.95±0.40	-	44.63±5.24	17.59±3.07	0.03±0.03	0.05±0.05	12.06±2.01	1.23±0.56	0.02±0.01	21.31±4.48	0.39±0.09
22	0.95±0.27	-	0.84±0.21	-	60.06±4.47	2.23±0.61	-	-	19.66±4.39	10.16±4.39	-	6.10±1.12	0.19±0.08
23	1.78±0.65	-	0.49±0.26	-	7.26±1.81	83.43±2.94	0.10±0.04	-	3.15±1.08	1.28±1.05	1.25±0.23	1.28±0.26	0.17±0.06
24	4.13±0.95	-	0.44±0.21	0.01±0.01	19.16±2.79	28.26±4.86	0.15±0.10	-	32.49±8.66	14.91±3.67	0.43±0.22	0.02±0.02	0.28±0.07
25	0.85±0.22	-	0.13±0.08	0.04±0.02	46.72±9.15	36.56±9.99	0.01±0.01	-	12.78±2.35	0.69±0.37	1.65±0.21	0.57±0.25	0.12±0.03
26	0.43±0.18	-	0.01±0.01	-	36.58±5.94	24.78±5.56	0.01±0.01	0.38±0.33	12.69±6.04	23.88±7.39	0.22±0.06	1.01±0.51	0.23±0.03
27	0.52±0.18	-	-	-	37.04±6.09	30.98±5.10	0.01±0.01	0.26±0.21	23.44±5.61	5.39±2.64	0.08±0.03	2.30±0.98	0.25±0.08

Densidad promedio (ind m⁻²) y desviación estándar, riqueza de especies (S), índice de Heterogeneidad de Shannon (H' (Log₁₀)) e índice de diferenciación taxonómica (Δ*) de macroinvertebrados por sitio en el Área de Conservación OSA (ACOSA), durante el periodo 2013-2014, (ver cuadro 1 para más detalles sobre los sitios de muestreo)

Clasificación taxonómica	1	2	3	4	5	6	7	8	9	10
Filo Echinodermata										
Clase Asteroidea										
1 <i>Acanthaster planci</i>	---	---	---	---	---	---	---	---	---	---
2 <i>Nidorellia armata</i>	---	---	---	---	---	---	---	---	---	---
3 <i>Pharia pyramidalis</i>	---	0.05	0.05	0.1±0.05	0.06±0.03	0.08±0.04	0.13±0.11	0.1±0.09	0.05±0.00	---
4 <i>Pharia unifascialis</i>	0.05±0.00	0.05	---	0.05±0.00	0.08±0.04	0.05	---	0.15±0.20	0.18±0.23	0.1±0.04
5 <i>Pentacaster cummingsii</i>	---	---	---	0.05	---	---	---	0.05	---	---
6 <i>Mithrodia bradleyi</i>	---	---	---	0.05	---	---	---	---	---	---
Clase Echinoidea										
7 <i>Astropyga pulvinata</i>	---	---	---	---	---	---	---	---	---	---
8 <i>Diadema mexicanum</i>	0.44±0.19	0.58±0.43	0.57±0.16	4.48±3.30	0.27±0.25	1.5±0.92	1.52±1.10	0.33±0.35	0.59±0.50	0.13±0.08
9 <i>Echinometra vanbrunti</i>	---	---	---	0.15±0.14	0.08±0.04	---	0.3	---	---	0.2
10 <i>Eucidaris thourarii</i>	0.15	0.17±0.16	0.05	0.4±0.35	0.08±0.06	0.35±0.19	0.57±0.34	0.18±0.13	0.05±0.00	0.17±0.06
11 <i>Toxopneustes roseus</i>	---	---	---	---	---	---	---	---	---	---
Clase Holothuroidea										
12 <i>Cucumaria flamma</i>	---	---	0.05	---	---	---	---	---	---	---
13 <i>Holothuria (Halodeima) atra</i>	---	---	---	---	0.18±0.199	0.35	0.15	---	---	---
14 <i>Holothuria</i> spp.	---	---	---	0.45±0.47	0.05	0.3	---	0.05	---	0.05
15 <i>Isostichopus fuscus</i>	---	---	---	---	0.05	0.05	0.1	---	---	---
16 <i>Psolidae</i>	0.4±0.28	---	---	0.85±0.59	---	---	---	---	---	---
17 <i>Stichopus horrens</i>	---	---	---	---	---	---	0.05	---	---	---
18 Otros holoturoideos	0.3±0.14	0.5±0.39	1.08±1.24	0.23±0.03	0.08±0.03	0.83±1.05	0.1	0.42±0.21	0.88±0.33	---
Filo Arthropoda										
Orden Decapoda										
19 <i>Panulirus</i> spp.	0.05±0.00	0.1	---	0.05	---	0.1±0.07	---	---	0.05±0.00	0.08±0.04
20 <i>Stenorhynchus debilis</i>	0.1	---	---	0.15±0.12	---	0.05±0.00	---	0.13±0.11	---	---
Filo Mollusca										
Clase Bivalvia										
21 <i>Atrina</i> spp.	---	---	---	---	---	---	---	---	0.05	---
22 <i>Hyotissa hyotis</i>	---	---	---	---	---	---	---	---	---	---
23 <i>Pinctada mazatlanica</i>	0.4±0.36	---	0.25±0.18	0.49±0.36	0.09±0.08	0.12±0.06	0.23±0.24	0.17±0.08	0.19±0.09	0.38±0.32
24 <i>Pinna rugosa</i>	0.05	0.05	---	---	---	---	---	0.05	---	---
25 <i>Spondylus limbatus</i>	---	---	---	---	---	---	0.07±0.03	---	---	---
26 <i>Spondylus</i> spp.	---	---	---	0.15±0.00	---	0.05±0.00	---	0.1	---	---
Clase Cephalopoda										
27 <i>Octopus</i> spp.	---	---	---	---	---	---	---	---	0.05	---

ANEXO 2 (Continuación)

Clasificación taxonómica	1	2	3	4	5	6	7	8	9	10
Clase Gastropoda										
28 <i>Hexaplex princeps</i>	---	0.05	0.05	0.09±0.05	---	0.08±0.06	0.05±0.00	---	---	0.05±0.00
29 <i>Lobatus galeatus</i>	---	---	---	---	0.09±0.07	0.1	---	0.05	0.05±0.00	0.05
30 <i>Murex</i> spp.	0.08±0.04	---	---	---	---	---	---	---	---	0.1±0.09
31 Otros muricidos	---	---	---	---	0.05	---	0.07±0.04	---	0.05	---
32 <i>Opaeostoma pseudodon</i>	0.05	0.08±0.04	---	0.22±0.08	---	0.08±0.04	0.13±0.11	0.05	0.05±0.00	0.08±0.04
33 <i>Vasum</i> spp.	0.18±0.11	---	---	---	0.05	0.06±0.03	0.18±0.04	0.05	0.05±0.00	0.05
Infraclase Opisthobranchia										
34 <i>Doriprismatica sedha</i>	---	---	---	---	---	0.1±0.07	---	0.05	---	---
35 <i>Elysia diomedea</i>	0.05	0.15	---	---	---	0.06±0.02	0.05	---	---	---
36 <i>Fellmaria agassizii</i>	0.08±0.04	---	---	0.05	0.05±0.00	0.05	---	---	---	---
37 <i>Felinida baumanni</i>	---	---	---	---	---	---	---	---	---	---
38 <i>Oxynoe panamensis</i>	---	---	---	---	---	---	---	---	---	---
39 <i>Stylocheilus longicauda</i>	0.05	---	---	---	---	---	---	---	---	---
40 Otros opisthobranchios	---	---	---	0.05	---	---	---	---	---	---
S	13	9	6	15	12	18	13	14	10	12
H' (log ₁₀)	0.9764	0.7963	0.581	0.8685	1.012	1.028	0.9187	1.063	0.8137	0.9925
Δ*	90.99	90.76	92.83	89.46	86.41	87.88	85.58	90.5	91.98	90.72

ANEXO 2 (Continuación)

Clasificación taxonómica	11	12	13	14	15	16	17	18	19	20
Filo Echinodermata										
Clase Asteroidea										
1 <i>Acanthaster planci</i>	---	---	0.05±0.00	0.07±0.03	0.05±0.00	---	---	---	---	---
2 <i>Nidorellia armata</i>	---	---	0.1	---	---	---	---	---	---	---
3 <i>Pharia pyramidata</i>	0.05±0	---	---	---	0.05	---	0.05	0.05	0.05	---
4 <i>Phataria unifascialis</i>	---	---	---	---	---	---	0.05	0.05	---	---
5 <i>Pentaceraster cummingii</i>	---	---	---	---	---	---	---	---	---	---
6 <i>Mithrodia bradleyi</i>	---	---	0.05	---	---	---	---	---	---	---
Clase Echinoidea										
7 <i>Aspropyga pulvinata</i>	---	---	---	---	---	---	---	---	---	---
8 <i>Diadema mexicanum</i>	0.78±0.70	1.18±0.74	0.32±0.26	0.55±0.36	0.55±0.39	0.43±0.21	0.58±0.58	1.5±1.33	0.16±0.06	0.84±0.37
9 <i>Echinometra vanbrunti</i>	---	---	---	---	---	---	0.08±0.04	---	---	0.58±0.60
10 <i>Eucladaris thouarsii</i>	---	0.1±0.06	0.32±0.22	0.26±0.28	0.1±0.07	0.15±0.12	0.2±0.16	0.21±0.16	---	---
11 <i>Toxopneustes roseus</i>	---	---	---	---	---	---	---	---	---	---

Clasificación taxonómica	11	12	13	14	15	16	17	18	19	20
Clase Holothuroidea										
12 <i>Cucumaria flamma</i>	---	---	---	---	---	---	---	---	---	---
13 <i>Holothuria (Halodeima) atra</i>	---	---	---	---	---	---	---	---	---	---
14 <i>Holothuria</i> spp.	---	---	---	---	---	---	---	---	---	---
15 <i>Isostichopus fuscus</i>	---	0.07±0.03	---	---	---	0.05±0	---	0.05±0.00	---	---
16 Psolidae	---	---	---	---	---	---	---	---	---	---
17 <i>Stichopus horrens</i>	---	---	---	---	---	---	---	---	---	---
18 Otros holothuroideos	0.25±0.14	0.24±0.40	0.05	0.1	---	---	0.05±0.00	0.2±0.22	---	0.15
Filo Arthropoda										
Orden Decapoda										
19 <i>Panulirus</i> spp.	---	0.05±0.00	0.13±0.04	0.05±0.00	---	0.09±0.08	---	0.05	---	0.08±0.06
20 <i>Senorhynchus debilis</i>	---	---	0.22±0.29	0.15±0.14	---	---	0.05	0.2±0.05	---	---
Filo Mollusca										
Clase Bivalvia										
21 <i>Atrina</i> spp.	---	---	---	---	---	---	---	---	---	---
22 <i>Hyotissa hyotis</i>	---	0.2	---	0.25	---	---	---	---	---	---
23 <i>Pinctada mazatlanica</i>	---	0.1±0.09	0.11±0.07	0.06±0.02	0.2±0.15	0.05	0.05	0.54±0.18	0.1	0.13±0.04
24 <i>Pincta rigosa</i>	---	---	---	---	---	---	---	---	---	---
25 <i>Spondylus limbatas</i>	---	---	---	0.05	---	---	---	---	---	---
26 <i>Spondylus</i> spp.	---	0.05	---	---	---	---	---	0.05	---	---
Clase Cephalopoda										
27 <i>Octopus</i> spp.	---	---	---	---	---	---	---	---	---	---
Clase Gastropoda										
28 <i>Hexaplex princeps</i>	---	0.05±0.00	---	0.13±0.14	0.05	0.05	0.05	0.05±0	---	---
29 <i>Lobatus galeatus</i>	0.05	0.1	---	0.05	---	0.05	---	0.25	0.05	0.1
30 <i>Murex</i> spp.	---	---	---	---	---	---	0.12±0.08	0.05	0.08±0.03	0.05
31 Otros muricidos	---	---	---	---	---	---	---	---	---	---
32 <i>Opeatoxoma pseudodon</i>	---	---	---	---	---	---	0.2±0.17	---	---	0.05
33 <i>Vasum</i> spp.	---	0.06±0.03	---	---	---	---	---	0.05	0.05	---
Infracase Opisthobranchia										
34 <i>Doriprismatica sedna</i>	---	---	0.05	---	---	---	0.05	---	0.08±0.04	---
35 <i>Elysia diomedea</i>	---	---	---	---	0.05	---	---	0.07±0.03	---	---
36 <i>Felimare agassizii</i>	---	---	0.05	---	---	0.05	---	---	0.05	---
37 <i>Felimida baumanni</i>	---	---	0.08±0.04	---	0.18±0.06	0.05	---	---	---	---
38 <i>Oxynoe panamensis</i>	---	---	---	0.05±0.00	---	---	---	---	---	---
39 <i>Stylocheilus longicauda</i>	---	---	---	---	---	---	---	---	---	---
40 Otros opisthobranchios	0.05	---	---	---	---	---	---	0.1±0.00	---	---
S	3	10	11	11	8	9	11	14	8	7
H'(log ₁₀)	0.2227	0.7436	0.9455	0.905	0.7515	0.8052	0.8808	0.8797	0.8643	0.65
Δ*	92	92.54	90.89	92.3	91.46	90.65	87.91	93.17	86.94	86.61

ANEXO 2 (Continuación)

Clasificación taxonómica	21	22	23	24	25	26	27
Filo Echinodermata							
Clase Asteroidea							
1 <i>Acanthaster planci</i>	---	---	---	---	---	---	---
2 <i>Nidorellia armata</i>	---	---	---	---	---	---	---
3 <i>Pharia pyramidata</i>	---	---	0.05	---	---	---	---
4 <i>Phataria unifascialis</i>	---	---	---	---	0.05	---	---
5 <i>Pentaceraster cummingii</i>	---	---	---	---	---	---	---
6 <i>Mithrodia bradleyi</i>	---	---	---	---	---	---	---
Clase Echinoidea							
7 <i>Astropyga pulvinata</i>	---	---	---	---	0.05	---	---
8 <i>Diadema mexicanum</i>	---	0.1	---	0.25±0.17	---	0.1	0.05±0.00
9 <i>Echinometra vanbrunti</i>	---	---	0.05	---	---	---	---
10 <i>Eucidaris thourasii</i>	0.1±0.07	0.05	0.05±0.00	0.05±0.00	---	0.07±0.03	0.05
11 <i>Toxopneustes roseus</i>	---	---	---	0.05±0.00	---	---	---
Clase Holothuroidea							
12 <i>Cucumaria flamma</i>	---	---	---	---	---	---	---
13 <i>Holothuria (Halodeima) atra</i>	---	---	---	---	---	0.05	0.05
14 <i>Holothuria</i> spp.	---	---	0.05	0.05	---	0.22±0.25	0.21±0.26
15 <i>Isostichopus fuscus</i>	---	---	---	0.05	---	---	---
16 <i>Psolidae</i>	---	---	---	---	---	---	---
17 <i>Stichopus horrens</i>	---	---	---	---	---	---	---
18 Otros holoturoideos	0.3	0.05	2.48±2.41	3.23±3.58	---	0.08±0.04	0.05±0.00
Filo Arthropoda							
Orden Decapoda							
19 <i>Panulirus</i> spp.	---	---	0.05	---	---	---	---
20 <i>Stenorhynchus debilis</i>	---	---	0.05	---	0.05	0.08±0.04	0.08±0.03
Filo Mollusca							
Clase Bivalvia							
21 <i>Atrina</i> sp.	---	---	---	---	---	---	---
22 <i>Hyotissa hyotis</i>	0.29±0.15	0.4±0.09	---	0.09±0.04	---	0.09±0.08	---
23 <i>Pinctada mazatlanica</i>	0.29±0.18	0.20±0.14	0.05	0.05	---	0.17±0.15	0.08±0.04
24 <i>Pinna rugosa</i>	0.05±0.00	---	---	---	---	---	---
25 <i>Spondylus limbatus</i>	---	---	---	0.05	---	---	---
26 <i>Spondylus</i> spp.	0.14±0.07	0.34±0.27	0.05	0.05±0.00	---	0.31±0.26	0.1±0.07
Clase Cephalopoda							
27 <i>Octopus</i> spp.	---	---	---	---	---	---	---
Clase Gastropoda							
28 <i>Hexaplex princeps</i>	0.17±0.06	0.09±0.05	0.05	---	0.05	0.05	---
29 <i>Lobatus galeatus</i>	---	0.1±0.00	0.1±0.07	0.05±0.00	---	---	---
30 <i>Murex</i> spp.	0.05	0.12±0.06	---	---	---	0.05	---
31 Otros muricidos	---	0.05	---	---	---	---	---
32 <i>Opeatostoma pseudodon</i>	---	---	---	---	---	---	---
33 <i>Vasum</i> spp.	---	---	---	---	0.1	---	---
Infraclass Opisthobranchia							
34 <i>Doriprismatica sedna</i>	---	---	---	---	0.05	---	---
35 <i>Elysia diomedea</i>	---	---	0.05±0.00	0.18±0.09	0.12±0.08	---	---
36 <i>Felimare agassizii</i>	---	---	0.08±0.04	0.05±0.00	0.06±0.03	---	---
37 <i>Felimida baumanni</i>	---	---	---	---	0.05	---	---
38 <i>Oxynoe panamensis</i>	---	---	---	---	---	---	---
39 <i>Stylocheilus longicauda</i>	---	---	---	---	---	---	---
40 Otros opisthobranquios	---	---	---	---	---	---	---
S	7	8	12	12	9	10	7
H'(log10)	0.7731	0.822	1.067	0.9932	0.9281	0.9168	0.7879
Δ*	78.58	80.63	91	89.4	80.24	89.63	89.49

ANEXO 3

Densidad promedio (ind m⁻²) y desviación estándar, riqueza de especies (S), índice de Shannon (H' (Log₁₀)) e índice de diferenciación taxonómica (Δ^*) de peces por sitio en ACOSA, durante el periodo 2013-2014.
Ver número de sitios en el cuadro 1

Especie	1	2	3	4	5	6	7	8	9	10	11
Orden Anguilliformes											
Familia Muraenidae											
1 <i>Echidna nebulosa</i>	---	---	---	---	---	---	---	---	---	---	---
2 <i>Gymnothorax castaneus</i>	---	---	---	0.03	---	---	---	---	---	---	---
3 <i>Muraena lentiginosa</i>	---	---	---	---	---	0.03	---	---	---	---	---
Orden Beryciformes											
Familia Holocentridae											
4 <i>Myripristis berndti</i>	---	---	---	---	---	---	---	---	---	---	---
5 <i>Sargocentron suborbitalis</i>	0.07±0.07	---	0.03	0.05	---	---	---	0.35	0.03	0.03	0.09±0.05
Orden Carcharhiniformes											
Familia Carcharhinidae											
6 <i>Triaenodon obesus</i>	---	---	---	---	---	---	---	---	---	---	---
Orden Mugiliformes											
Familia Mugilidae											
7 <i>Mugil curema</i>	---	---	---	---	---	---	---	---	---	0.40	---
Orden Perciformes											
Familia Acanthuridae											
8 <i>Acanthurus nigricans</i>	---	---	0.06±0.02	---	---	---	---	---	---	---	---
9 <i>Acanthurus triostegus</i>	---	---	---	---	---	---	---	---	---	---	---
10 <i>Acanthurus xanthurus</i>	---	---	---	---	0.63	---	---	---	0.20	---	---
11 <i>Prionurus laticlavus</i>	---	---	---	0.10	---	---	0.36±0.37	0.33±0.042	---	---	---
12 <i>Prionurus punctatus</i>	---	---	---	---	---	---	---	---	---	---	0.05
Familia Apogonidae											
13 <i>Apogon dovii</i>	---	---	---	---	---	---	---	---	---	---	---
Familia Blenniidae											
14 <i>Ophioblennius steindachneri</i>	---	---	0.03	0.05	0.04±0.02	0.04±0.02	---	---	---	---	---
15 <i>Plagiotremus azaleus</i>	0.03±0	---	---	---	---	0.03±0	---	0.20	0.21±0.23	---	---
16 <i>Caranx caballus</i>	---	---	---	0.08	0.38	---	---	---	0.68	0.03	---
17 <i>Caranx melampygus</i>	---	---	---	---	---	---	---	---	---	---	---
18 <i>Elagatis bipinnulata</i>	---	---	---	---	0.15	---	---	---	---	---	---
19 <i>Gnathanodon speciosus</i>	---	---	---	---	---	---	---	---	---	---	---
Familia Chaetodontidae											
20 <i>Chaetodon humeralis</i>	0.03	---	0.05±0.04	0.09±0.07	0.05±0.04	0.05±0.05	---	0.06±0.03	0.06±0.02	---	0.03
21 <i>Johrmandallia nigrirostris</i>	0.03	---	0.05	0.05±0.03	0.03±0	0.05±0	0.05	0.06±0.03	0.10	0.04±0.02	0.04±0.02

ANEXO 3 (Continuación)

Especie	1	2	3	4	5	6	7	8	9	10	11
Familia Cirrhitidae											
22 <i>Cirrhitichthys oxycephalus</i>	---	---	---	---	---	---	---	---	---	---	---
23 <i>Cirrhitus rivulatus</i>	0.10	---	---	0.04±0.01	---	0.03 ±0.01	0.05±0	0.03	0.05	---	---
Familia Ephyppidae											
24 <i>Chaetodipterus zonatus</i>	---	---	---	---	---	---	---	---	---	---	---
Familia Gobiidae											
25 <i>Elacatinus punctulatus</i>	---	---	---	---	---	---	---	---	---	---	---
Familia Haemulidae											
26 <i>Anisotremus caesiis</i>	0.04±0.02	---	0.05	---	0.05	---	---	0.10±0.07	---	0.10	---
27 <i>Anisotremus interruptus</i>	---	---	---	---	---	0.30	---	---	---	---	---
28 <i>Anisotremus taeniatus</i>	---	---	---	0.15	---	0.04±0.02	---	---	---	---	---
29 <i>Haemulon flaviguttatum</i>	---	---	---	---	---	---	---	---	---	---	---
30 <i>Haemulon maculicauda</i>	---	---	---	---	---	0.83	---	0.06±0.05	---	---	---
31 <i>Haemulon scudderi</i>	---	---	---	---	---	---	---	---	---	---	---
32 <i>Haemulon sexfasciatum</i>	---	---	---	---	0.35±0.07	0.03	---	---	---	---	0.03
33 <i>Haemulon steindachneri</i>	---	---	---	0.25	---	---	---	---	---	0.35	---
Familia Kyphosidae											
34 <i>Kyphosus analostanus</i>	---	---	---	---	0.43±0.46	---	---	---	---	---	---
35 <i>Kyphosus elegans</i>	---	---	---	---	---	0.63	---	---	---	---	---
36 <i>Kyphosus</i> spp.	0.06±0.02	---	---	0.04±0.02	0.08	0.03	0.13	0.03	0.38	---	---
37 <i>Sectator ocyurus</i>	---	---	---	---	---	---	---	---	---	---	---
Familia Labridae											
38 <i>Bodianus diplotaenia</i>	---	---	---	0.05±0.02	0.04±0.03	0.03±0	0.08	0.05±0.03	0.04±0.02	0.05	0.05
39 <i>Halichoeres chierchiae</i>	---	0.20	---	0.08±0.07	0.06±0.05	0.03	---	0.10±0.07	0.09±0.06	0.05	0.05
40 <i>Halichoeres dispilus</i>	0.21±0.24	0.03	0.05	0.13±0.08	0.15±0.10	0.54±1.06	0.18	0.38±0.32	0.35±0.40	0.36±0.45	0.15±0.15
41 <i>Halichoeres melanotis</i>	---	---	---	---	---	---	---	---	---	---	---
42 <i>Halichoeres nicholsi</i>	---	---	---	0.03	0.04±0.02	0.07±0.05	---	0.03±0	0.03	0.13	0.03
43 <i>Halichoeres notospilus</i>	0.14±0.09	0.03	0.10	---	0.27±0.30	0.04±0.03	---	0.08±0.04	0.06±0.02	0.08±0.04	0.08±0.07
44 <i>Novaculichthys taeniorurus</i>	---	---	---	---	---	---	---	---	---	---	---
45 <i>Thalassoma grammacum</i>	---	---	---	---	---	---	---	---	---	---	---
46 <i>Thalassoma lucasanum</i>	0.08±0.10	---	0.63±0.35	0.47±0.42	0.21±0.11	0.29±0.46	0.05	0.36±0.45	0.16±0.03	0.05±0	0.10±0.05
Familia Labrisomidae											
47 <i>Malacoctenus zonifer</i>	---	---	---	---	---	---	---	---	---	---	---
Familia Lutjanidae											
48 <i>Hoplopagrus guentherii</i>	---	---	---	---	---	---	---	---	---	0.05	---
49 <i>Lutjanus argentiventris</i>	0.04±0.02	---	0.06±0.05	0.10	0.08±0.06	0.03	0.04±0.02	0.07±0.07	0.06±0.06	0.11±0.02	0.12±0.08
50 <i>Lutjanus guttatus</i>	---	---	---	---	0.25	---	---	0.05±0.04	---	---	0.05±0.03
51 <i>Lutjanus inermis</i>	---	---	---	---	---	---	---	0.03	---	---	---
52 <i>Lutjanus novemfasciatus</i>	---	---	---	---	---	---	---	---	---	0.03	---
53 <i>Lutjanus viridis</i>	---	---	---	---	---	---	---	---	---	---	---

Especie	1	2	3	4	5	6	7	8	9	10	11
Familia Mullidae											
54 <i>Mulloidichthys dentatus</i>	---	---	---	---	---	---	---	0.10	---	---	---
55 <i>Pseudupeneus grandisquamis</i>	---	---	---	---	---	---	---	---	---	0.03	---
Familia Pomacanthidae											
56 <i>Holacanthus passer</i>	---	---	---	0.07±0.04	---	---	0.08	0.04±0.02	---	---	---
57 <i>Pomacanthus zonipectus</i>	---	---	---	0.05	---	---	---	---	---	0.03	0.03
Familia Pomacentridae											
58 <i>Abudefduf troschelii</i>	0.39±0.51	---	0.33±0.31	0.25±0.13	0.05±0.14	0.03	0.16±0.02	0.14±0.16	0.16±0.12	0.39±0.25	0.06±0.05
59 <i>Chromis atrilobata</i>	1.00±0.35	---	---	2.79±1.91	---	0.88±0.92	1.25	2.53±2.26	1.13±0.53	---	---
60 <i>Microspathodon dorsalis</i>	0.17±0.19	0.03	0.18±0.05	0.20±0.17	0.11±0.07	0.08±0.07	0.18±0.07	0.13±0.12	0.16±0.05	---	0.11±0.12
61 <i>Stegastes acapulcoensis</i>	0.23±0.22	---	0.03	0.53±0.37	0.55±0.53	0.24±0.19	---	0.33±0.53	0.29±0.16	0.66±0.10	0.21±0.17
62 <i>Stegastes</i> spp.	0.10	0.13±0.06	---	0.24±0.11	0.11±0.04	0.09±0.03	0.18	0.26±0.37	---	0.05±0	0.24±0.19
63 <i>Stegastes rectifacenum</i>	---	---	---	---	---	0.04±0.02	---	---	---	0.30±0.04	---
Familia Scaridae											
64 <i>Scarus compressus</i>	---	---	---	0.04±0.02	---	---	---	---	0.03	---	---
65 <i>Scarus ghobban</i>	---	---	---	0.03	0.09±0.07	---	0.33±0.42	0.05	---	0.03	0.05
66 <i>Scarus perrico</i>	---	---	---	0.06±0.05	0.05	0.03±0	0.14±0.05	0.03	---	---	---
67 <i>Scarus rubroviolaceus</i>	---	---	---	0.05±0.03	---	0.03	---	0.03	---	---	---
Familia Sciaenidae											
68 <i>Odontoscion xanthops</i>	---	---	---	0.30	---	---	---	---	---	---	---
Familia Serranidae											
69 <i>Alphesthes immaculatus</i>	---	---	---	0.13	---	---	---	---	---	---	---
70 <i>Cephalopholis panamensis</i>	---	---	0.03±0	0.06±0.04	---	0.03	---	0.06±0.01	0.03±0.01	0.04±0.02	0.03
71 <i>Dermatolepis dermatolepis</i>	---	---	---	0.03	---	---	---	---	---	---	---
72 <i>Epinephelus labriformis</i>	0.05	0.03	---	0.04±0.01	0.04±0.02	0.03±0.01	---	0.06±0.01	0.05	0.03	---
73 <i>Paranthias colonus</i>	---	---	---	---	---	---	---	---	---	---	---
74 <i>Rypticus nigripinnis</i>	---	---	---	---	---	---	---	---	---	---	---
75 <i>Serranus psittacinus</i>	---	---	---	0.06±0.04	0.19±0.10	0.04±0.02	---	0.05	0.03	---	---
Familia Zancleidae											
76 <i>Zanclus cornutus</i>	0.03	---	---	---	---	---	---	---	---	---	---
Orden Rajiformes											
Familia Dasyatidae											
77 <i>Dasyatis longa</i>	---	---	---	---	---	---	---	---	---	---	---
Orden Scorpaeniformes											
Familia Scorpaenidae											
78 <i>Scorpaena mystes</i>	---	---	---	---	0.08	---	0.04±0.02	---	---	---	---
79 <i>Scorpaena</i> spp.	---	---	---	---	---	---	---	---	---	---	---
Orden Syngnathiformes											
Familia Aulostomidae											
80 <i>Aulostomus chinensis</i>	---	---	---	---	---	---	---	---	---	---	---

ANEXO 3 (Continuación)

Especie	1	2	3	4	5	6	7	8	9	10	11
Familia Fistulariidae											
81 <i>Fistularia commersonii</i>	---	---	---	---	---	---	---	---	---	---	---
Orden Tetraodontiformes											
Familia Balistidae											
82 <i>Balistes polyplepis</i>	---	---	0.03	0.04±0.03	---	---	0.03±0	0.05	---	0.03	0.08
83 <i>Melichthys niger</i>	---	---	---	---	---	---	---	---	---	---	---
84 <i>Pseudobalistes naufragium</i>	0.03	---	0.03	0.04±0.02	0.03±0	0.03	0.08	0.03±0	---	0.08	---
85 <i>Sufflamen verres</i>	0.03	---	---	0.03±0.01	0.04±0.01	0.08	0.05	0.04±0.01	0.03	---	---
Familia Diodontidae											
86 <i>Diodon hystrix</i>	---	---	---	0.03±0	---	---	---	---	---	0.03	---
Familia Ostraciidae											
87 <i>Ostracion meleagris</i>	---	---	---	---	---	---	---	---	---	---	---
Familia Tetraodontidae											
88 <i>Arothron hispidus</i>	---	---	---	---	---	---	---	---	---	---	---
89 <i>Arothron meleagris</i>	---	---	---	0.05	0.03±0	0.05	---	0.03±0	---	---	---
90 <i>Canthigaster punctatissima</i>	0.03	0.03	---	0.05±0.04	0.05	0.03±0.01	---	0.04±0.02	0.05±0	0.08±0.04	---
S	21	7	16	40	31	34	19	36	25	28	21
H'(log10)	0.9906	0.5789	0.9021	1.328	1.16	1.178	0.9693	1.245	1.098	1.088	1.149
Δ*	53.89	47.94	54.5	50.45	51.91	50.61	52.36	54.92	50.51	60.69	51.5

ANEXO 3 (Continuación)

Especie	12	13	14	15	16	17	18	19	20	21	22
Orden Anguilliformes											
Familia Muraenidae											
1 <i>Echidna nebulosa</i>	---	0.03	---	---	---	---	---	---	---	---	---
2 <i>Gymnothorax castaneus</i>	---	0.03	---	---	---	---	---	---	---	---	0.03
3 <i>Muraena lentiginosa</i>	---	---	---	---	---	---	---	---	---	---	---
Orden Beryciformes											
Familia Holocentridae											
4 <i>Myripristis berndti</i>	---	---	---	0.03	---	---	---	---	---	---	---
5 <i>Sargocentron suborbitalis</i>	0.03±0	0.13	---	0.10	0.03	0.03	---	---	---	0.03	0.03
Orden Carcharhiniformes											
Familia Carcharhinidae											
6 <i>Triaenodon obesus</i>	---	---	---	---	0.03	---	---	---	---	---	---
Orden Mugiliformes											
Familia Mugilidae											
7 <i>Mugil curema</i>	---	---	---	---	---	---	---	---	---	---	---

Especie	12	13	14	15	16	17	18	19	20	21	22
Orden Perciformes											
Familia Acanthuridae											
8 <i>Acanthurus nigricans</i>	---	0.04±0.02	0.03±0.01	0.13±0.04	0.08±0.05	---	---	---	---	---	---
9 <i>Acanthurus triostegus</i>	---	0.85±1.44	0.08±0	---	0.07±0.08	---	---	---	---	---	---
10 <i>Acanthurus xanithopterus</i>	---	0.05	---	0.05	0.03	0.03	---	---	---	---	---
11 <i>Prionurus laticlavus</i>	---	0.59±0.89	0.03±0	0.25	0.03	---	---	---	0.05	---	---
12 <i>Prionurus punctatus</i>	0.03	---	0.08	---	0.10	---	---	---	---	---	---
Familia Apogonidae											
13 <i>Apogon dovii</i>	---	---	---	---	---	---	---	---	---	---	---
Familia Blenniidae											
14 <i>Ophioblennius steindachneri</i>	0.03±0	---	0.03	---	0.05	---	---	0.06±0.04	0.03	---	---
15 <i>Plagiotremus azaleus</i>	---	---	---	---	---	---	---	0.03	---	---	---
16 <i>Caranx caballus</i>	---	---	---	---	10.00	---	0.50	---	0.28	---	---
17 <i>Caranx melampygus</i>	---	0.05±0.03	0.15±0.18	0.03	0.06±0.03	---	---	---	---	---	---
18 <i>Elagatis bipinnulata</i>	---	---	---	---	---	---	---	---	---	---	---
19 <i>Gnathanodon speciosus</i>	0.05	---	---	---	---	---	---	---	---	---	---
Familia Chaetodontidae											
20 <i>Chaetodon humeralis</i>	0.05±0.02	---	---	---	---	0.03	0.08	---	---	0.10	0.15±0.04
21 <i>Johmandallia nigrivittis</i>	0.03±0	0.50	0.07±0.05	---	0.08±0.06	0.06±0.03	0.07±0.04	0.03±0	0.03	0.04±0.01	---
Familia Cirrhitidae											
22 <i>Cirrhitichthys oxycephalus</i>	---	0.03	0.11±0.10	---	---	0.03±0	---	---	---	---	---
23 <i>Cirrhitus rivulatus</i>	---	---	0.03	---	0.03	0.03	0.04±0.02	---	---	---	---
Familia Ephippidae											
24 <i>Chaetodipterus zonatus</i>	---	---	---	---	---	---	---	---	---	0.05	---
Familia Gobiidae											
25 <i>Elacatinus puniculatus</i>	---	---	---	---	---	---	---	---	---	---	---
Familia Haemulidae											
26 <i>Anisotremus caesius</i>	0.13±0.11	---	---	---	---	---	0.03	---	0.30±0.28	0.05±0.03	0.05±0
27 <i>Anisotremus interruptus</i>	---	---	---	---	---	---	---	---	---	---	---
28 <i>Anisotremus taeniatus</i>	0.03	0.03	---	---	---	---	---	0.03	---	0.05	0.05
29 <i>Haemulon flaviguttatum</i>	---	---	---	---	---	1.50	---	---	---	---	---
30 <i>Haemulon maculicauda</i>	0.15±0.04	---	0.40±0.32	---	1.47±1.27	---	---	---	0.25	0.43±0.06	0.37±0.24
31 <i>Haemulon scudderi</i>	0.05	---	0.58	---	0.33	---	---	---	0.05	0.50	---
32 <i>Haemulon sexfasciatum</i>	---	---	0.25	---	---	0.23±0.14	---	0.28	0.05	---	---
33 <i>Haemulon steindachneri</i>	---	---	---	---	---	---	---	---	0.05	---	---
Familia Kyphosidae											
34 <i>Kyphosus analogus</i>	---	---	---	---	---	---	---	---	---	---	---
35 <i>Kyphosus elegans</i>	---	---	---	---	---	---	---	---	---	---	---
36 <i>Kyphosus</i> spp.	---	---	0.05	0.58±0.60	0.17±0.18	0.06±0.05	0.14±0.16	0.03±0	0.03±0	---	---
37 <i>Sectator ocyurus</i>	---	---	---	0.63±0.35	---	---	---	---	---	0.75	---

Especie	12	13	14	15	16	17	18	19	20	21	22
Familia Labridae											
38 <i>Bodianus diplopania</i>	0.03	0.05±0.03	0.05±0.03	0.07±0.04	0.05±0.03	0.05±0.03	0.14±0.23	0.05±0.03	0.05	---	---
39 <i>Halichoeres chierchiae</i>	0.03±0	---	---	---	0.03	0.04±0.01	0.08	0.03	---	---	---
40 <i>Halichoeres dispilus</i>	0.28±0.18	1.35±2.02	0.38±0.11	---	0.10±0.11	0.26±0.08	---	0.21±0.15	0.15	1.06±1.03	1.11±0.77
41 <i>Halichoeres melanotis</i>	---	---	---	---	0.03±0	---	---	---	---	---	---
42 <i>Halichoeres nicholsi</i>	---	0.08	0.03±0	0.03	0.08±0.09	0.10	---	0.13±0.04	0.05±0.04	0.08±0.08	0.03±0
43 <i>Halichoeres notospilus</i>	0.10±0.03	0.25±0.18	0.08±0.07	0.20±0.07	---	0.06±0.02	0.04±0.01	0.11±0.06	0.20±0.15	---	---
44 <i>Novaculichthys taeniorurus</i>	---	0.05	---	---	---	---	---	---	---	---	---
45 <i>Thalassoma grammacum</i>	---	---	0.03	---	---	---	---	---	---	---	---
46 <i>Thalassoma laccasanum</i>	0.15±0.13	0.86±0.46	2.16±2.24	2.75±0.66	0.85±0.48	0.08±0.04	2.61±2.66	0.69±0.54	0.18	0.13±0.10	0.23±0.20
Familia Labrisomidae											
47 <i>Malacotenus zonifer</i>	---	---	---	---	---	---	---	---	---	---	---
Familia Lutjanidae											
48 <i>Hoplognathus guentherii</i>	---	---	---	---	---	---	---	0.05	---	---	---
49 <i>Lutjanus argentiventris</i>	0.07±0.04	0.03	0.04±0.02	0.25	0.07±0.04	0.03±0	0.03	---	0.08±0.05	0.22±0.30	0.11±0.08
50 <i>Lutjanus guttatus</i>	0.05	---	---	---	---	---	---	---	---	0.03	---
51 <i>Lutjanus inermis</i>	---	---	0.75	---	0.31±0.23	---	---	---	0.05	---	---
52 <i>Lutjanus novemfasciatus</i>	---	---	0.03	---	---	0.03	---	---	0.05	0.06±0.04	0.03
53 <i>Lutjanus viridis</i>	0.08	---	0.24±0.30	---	0.05	---	---	---	---	---	---
Familia Mullidae											
54 <i>Mulloidichthys dentatus</i>	---	---	0.03	---	---	0.05	---	---	---	---	---
55 <i>Pseudupeneus grandisquamis</i>	---	---	---	---	---	---	---	---	---	---	---
Familia Pomacanthidae											
56 <i>Holacanthus passer</i>	---	0.03±0	0.03±0.01	0.08	0.06±0.05	0.03±0	0.03	---	---	---	---
57 <i>Pomacanthus zonipectus</i>	---	---	---	---	---	0.05	---	---	---	0.05	0.04±0.02
Familia Pomacentridae											
58 <i>Abudefduf roschelii</i>	0.04±0.02	0.51±0.69	0.21±0.23	0.54±0.12	0.24±0.17	0.50	0.50±0.30	0.11±0.09	0.23±0.14	0.54±0.45	0.31±0.31
59 <i>Chromis atriolata</i>	5.00	1.41±1.10	5.50±7.58	1.25±0.88	6.58±9.19	0.29±0.14	1.08±0.82	---	0.25	1.25	---
60 <i>Microspahodon dorsalis</i>	0.04±0.02	0.03	0.15±0	0.08	0.04±0.02	0.07±0.05	0.10±0.05	0.06±0.04	0.20±0.09	---	---
61 <i>Siegastes acapulcoensis</i>	0.21±0.09	0.36±0.36	0.30	0.13±0	0.12±0.06	0.08	0.35±0.04	0.39±0.12	0.22±0.07	0.36±0.20	0.37±0.22
62 <i>Siegastes spp.</i>	0.11±0.06	0.20±0.11	0.20±0.15	---	0.06±0.02	0.18±0.12	0.15±0.07	0.10±0.07	0.13±	---	---
63 <i>Siegastes rectifacium</i>	0.12±0.04	0.25	0.08±0	---	0.13	---	---	---	---	0.39±0.23	0.45±0.46
Familia Scaridae											
64 <i>Scarus compressus</i>	0.08	0.05	---	---	---	---	---	---	---	---	0.08
65 <i>Scarus ghobban</i>	0.03	0.03	0.05±0.04	---	0.22±0.29	---	---	---	0.08	0.27±0.22	0.88±0.98
66 <i>Scarus perrico</i>	---	---	---	---	---	0.03	---	---	---	---	---
67 <i>Scarus rubrivittaceus</i>	---	0.07±0.04	0.08±0.06	0.06±0.02	0.12±0.07	---	---	---	---	---	---
Familia Sciaenidae											
68 <i>Odontoscia xanthops</i>	---	---	---	---	---	---	---	---	0.03	---	---

Especie	12	13	14	15	16	17	18	19	20	21	22
Familia Serranidae											
69 <i>Alphateses immaculatus</i>	---	---	---	---	---	---	---	---	---	---	---
70 <i>Cephalopholis panamensis</i>	0.03	0.05±0.02	0.04±0.01	0.03	0.05±0.03	0.03	0.03±0	0.03	---	0.05±0	0.03±0
71 <i>Dermatolepis dermatolepis</i>	---	---	0.08	---	---	---	---	---	---	---	0.03
72 <i>Epinephelus labriformis</i>	---	0.03±0.01	0.05±0	---	0.04±0.02	0.06±0.05	0.03±0	0.03±0	0.03	---	---
73 <i>Paranthias colinus</i>	---	3.74±4.81	0.56±0.39	---	---	---	0.10±0.05	---	---	---	---
74 <i>Rypiticus nigripinnis</i>	---	---	---	---	---	---	---	---	---	---	---
75 <i>Serranus psittacinus</i>	---	0.03	0.13	---	---	---	---	---	---	---	---
Familia Zancidae											
76 <i>Zanclus cornutus</i>	---	0.06±0.02	0.05	0.03	0.05±0	0.03	---	---	---	---	---
Orden Rajiformes											
Familia Dasyatidae											
77 <i>Dasyatis longa</i>	---	---	---	---	---	---	---	---	---	---	---
Orden Scorpaeniformes											
Familia Scorpaenidae											
78 <i>Scorpaena mystes</i>	---	---	---	---	---	---	---	---	---	---	---
79 <i>Scorpaena</i> spp.	---	---	---	---	0.03	0.03	---	---	---	---	---
Orden Syngnathiformes											
Familia Aulostomidae											
80 <i>Aulostomus chinensis</i>	---	---	---	---	0.03	---	---	---	---	---	---
Familia Fistulariidae											
81 <i>Fistularia commersonii</i>	---	0.04±0.02	0.03	---	---	---	---	---	---	---	---
Orden Tetraodontiformes											
Familia Balistidae											
82 <i>Balistes polyplepis</i>	---	---	---	---	0.03±0	---	---	---	---	---	---
83 <i>Melichthys niger</i>	---	0.05	0.19±0.23	---	---	---	---	---	---	---	---
84 <i>Pseudobalistes nauffragum</i>	0.05	0.03±0	0.04±0.02	---	0.03	0.06±0.04	---	---	0.03	---	0.03±0
85 <i>Sufflamen verres</i>	0.04±0.03	0.02±0.01	0.05±0.03	0.04±0.02	0.07±0.03	0.04±0.02	0.07±0.04	0.04±0.02	---	---	---
Familia Diodontidae											
86 <i>Diodon hystrix</i>	0.03	---	---	---	---	---	---	---	---	---	---
Familia Ostraciidae											
87 <i>Ostracion meleagris</i>	---	0.03±0	---	---	---	---	---	---	---	---	---
Familia Tetraodontidae											
88 <i>Arothron hispidus</i>	---	---	---	---	---	---	---	---	---	---	---
89 <i>Arothron meleagris</i>	0.03±0.01	0.05±0.03	0.04±0.03	---	0.08±0.05	---	---	---	0.03	---	---
90 <i>Canthigaster punctatissima</i>	0.08±0	0.07±0.02	0.07±0.05	---	0.12±0.09	0.03	0.03	0.03	0.03	---	0.03
S	32	40	45	22	43	33	22	21	28	22	21
H'(log10)	1.275	1.213	1.36	1.174	1.055	1.168	0.86	0.9579	1.042	1.084	1.016
Δ*	57.52	51.29	53.67	50.1	60.67	54.35	50.14	50.23	55.14	49.01	51.7

ANEXO 3 (Continuación)

Especie	23	24	25	26	27
Orden Anguilliformes					
Familia Muraenidae					
1 <i>Echidna nebulosa</i>	---	---	---	---	---
2 <i>Gymnothorax castaneus</i>	---	---	---	0.03±0	---
3 <i>Muraena lentiginosa</i>	---	---	---	---	---
Orden Beryciformes					
Familia Holocentridae					
4 <i>Myripristis berndti</i>	---	0.05	---	---	---
5 <i>Sargocentron suborbitalis</i>	0.05	0.05±0.03	---	---	---
Orden Carcharhiniformes					
Familia Carcharhinidae					
6 <i>Triaenodon obesus</i>	---	---	---	---	---
Orden Mugiliformes					
Familia Mugilidae					
7 <i>Mugil curema</i>	---	---	---	---	---
Orden Perciformes					
Familia Acanthuridae					
8 <i>Acanthurus nigricans</i>	---	---	---	---	---
9 <i>Acanthurus triostegus</i>	---	---	---	---	---
10 <i>Acanthurus xanthopterus</i>	0.03	---	---	0.08	---
11 <i>Prionurus laticlavus</i>	---	0.08	---	---	---
12 <i>Prionurus punctatus</i>	---	---	---	---	---
Familia Apogonidae					
13 <i>Apogon dovii</i>	---	0.20±0.16	0.05	---	---
Familia Blenniidae					
14 <i>Ophioblennius steindachneri</i>	---	---	---	---	---
15 <i>Plagiotremus azaleus</i>	---	---	---	---	---
16 <i>Caranx caballus</i>	---	---	---	---	---
17 <i>Caranx melampygus</i>	---	---	---	---	---
18 <i>Elagatis bipinnulata</i>	---	---	---	---	---
19 <i>Gnathanodon speciosus</i>	---	---	0.03	---	---
Familia Chaetodontidae					
20 <i>Chaetodon humeralis</i>	---	0.06±0.05	0.04±0.02	0.11±0.12	0.05±0.02
21 <i>Johnrandallia nigrrostris</i>	---	0.03±0.02	---	0.05±0	0.09±0.09
Familia Cirrhitidae					
22 <i>Cirrhitichthys oxycephalus</i>	---	---	---	---	---
23 <i>Cirrhitus rivulatus</i>	---	---	---	---	---
Familia Ephippidae					
24 <i>Chaetodipterus zonatus</i>	---	---	---	0.75	---
Familia Gobiidae					
25 <i>Elacatinus puncticulatus</i>	---	---	---	---	0.29±0.19
Familia Haemulidae					
26 <i>Anisotremus caesi</i>	---	0.04±0.02	---	0.60±0.74	0.03±0
27 <i>Anisotremus interruptus</i>	---	0.04±0.02	---	---	0.14±0.16
28 <i>Anisotremus taeniatus</i>	---	---	---	---	0.12±0.09
29 <i>Haemulon flaviguttatum</i>	---	---	---	5.00	---
30 <i>Haemulon maculicauda</i>	0.15	1.63±3.16	---	0.39±0.22	0.33±0.30
31 <i>Haemulon scudder</i>	---	---	---	---	---
32 <i>Haemulon sexfasciatum</i>	---	---	---	---	---
33 <i>Haemulon steindachneri</i>	---	---	---	---	---
Familia Kyphosidae					
34 <i>Kyphosus analogus</i>	0.03	---	---	---	---
35 <i>Kyphosus elegans</i>	---	---	---	---	---
36 <i>Kyphosus</i> spp.	---	---	---	---	---
37 <i>Sectator ocyurus</i>	---	---	---	---	---
Familia Labridae					
38 <i>Bodianus diplotaenia</i>	---	0.05	---	0.03	0.05
39 <i>Halichoeres chierchiae</i>	---	---	---	---	---

ANEXO 3 (Continuación)

Especie	23	24	25	26	27
40 <i>Halichoeres dispilus</i>	1.28±2.06	1.06±0.57	1.58±1.32	0.54±0.66	0.31±0.31
41 <i>Halichoeres melanotis</i>	---	---	---	---	---
42 <i>Halichoeres nicholsi</i>	0.03	0.04±0.01	---	---	0.05
43 <i>Halichoeres notospilus</i>	0.03	---	---	---	---
44 <i>Novaculichthys taeniourus</i>	---	---	---	---	---
45 <i>Thalassoma grammaticum</i>	---	---	---	---	---
46 <i>Thalassoma lucasanum</i>	0.47±0.41	0.33±0.21	0.04±0.01	0.34±0.25	0.18±0.13
Familia Labrisomidae					
47 <i>Malacoctenus zonifer</i>	---	0.15	---	---	---
Familia Lutjanidae					
48 <i>Hoplopagrus guentherii</i>	---	---	---	---	---
49 <i>Lutjanus argentiventris</i>	0.10±0.04	0.13±0.14	---	0.54±0.78	0.18±0.24
50 <i>Lutjanus guttatus</i>	1.68±2.87	---	0.10	0.50	---
51 <i>Lutjanus inermis</i>	---	---	---	---	---
52 <i>Lutjanus novemfasciatus</i>	---	0.04±0.02	---	0.15±0.14	---
53 <i>Lutjanus viridis</i>	---	---	---	---	---
Familia Mullidae					
54 <i>Mulloidichthys dentatus</i>	---	---	---	---	---
55 <i>Pseudupeneus grandisquamis</i>	---	---	---	---	---
Familia Pomacanthidae					
56 <i>Holacanthus passer</i>	---	---	---	---	0.05
57 <i>Pomacanthus zonipectus</i>	---	0.03	---	0.03±0.01	0.03±0
Familia Pomacentridae					
58 <i>Abudefduf troschelii</i>	0.31±0.21	0.75±0.50	---	0.84±0.87	0.14±0.09
59 <i>Chromis atrilobata</i>	---	0.62±0.73	---	---	---
60 <i>Microspathodon dorsalis</i>	---	---	---	---	---
61 <i>Stegastes acapulcoensis</i>	0.46±0.31	0.16±0.08	0.13	0.48±0.40	0.52±0.27
62 <i>Stegastes</i> spp.	0.03	---	---	0.30	---
63 <i>Stegastes rectrifraenum</i>	0.08±0.04	0.28±0.14	---	0.38±0.31	0.39±0.04
Familia Scaridae					
64 <i>Scarus compressus</i>	---	---	---	---	---
65 <i>Scarus ghobban</i>	0.08	0.09±0.07	---	0.73±0.89	0.39±0.47
66 <i>Scarus perrico</i>	0.03	---	---	---	---
67 <i>Scarus rubroviolaceus</i>	---	1.00	---	---	---
Familia Sciaenidae					
68 <i>Odontoscion xanthops</i>	---	---	---	---	---
Familia Serranidae					
69 <i>Alphestes immaculatus</i>	---	---	---	---	---
70 <i>Cephalopholis panamensis</i>	0.06±0.06	0.03±0.01	---	0.05±0	0.05±0.02
71 <i>Dermatolepis dermatolepis</i>	---	---	---	---	---
72 <i>Epinephelus labriformis</i>	0.03±0	---	---	0.03	0.03
73 <i>Paranthias colonus</i>	---	0.06±0.05	---	---	---
74 <i>Rypticus nigripinnis</i>	---	---	0.03	---	---
75 <i>Serranus psittacinus</i>	0.04±0.02	---	0.07±0.04	0.05	---
Familia Zancidae					
76 <i>Zanclus cornutus</i>	---	0.03±0	---	---	---
Orden Rajiformes					
Familia Dasyatidae					
77 <i>Dasyatis longa</i>	---	0.03	---	---	---
Orden Scorpaeniformes					
Familia Scorpaenidae					
78 <i>Scorpaena mystes</i>	0.03	---	---	---	---
79 <i>Scorpaena</i> spp.	---	---	---	---	---
Orden Syngnathiformes					
Familia Aulostomidae					
80 <i>Aulostomus chinensis</i>	---	---	---	---	---
Familia Fistulariidae					
81 <i>Fistularia commersonii</i>	---	---	---	---	---

ANEXO 3 (Continuación)

Especie	23	24	25	26	27
Orden Tetraodontiformes					
Familia Balistidae					
82 <i>Balistes polylepis</i>	---	0.03	---	0.04±0.02	0.06±0.05
83 <i>Melichthys niger</i>	---	---	---	---	---
84 <i>Pseudobalistes naufragium</i>	---	---	---	0.04±0.02	---
85 <i>Sufflamen verres</i>	0.04±0.02	0.14±0.16	---	0.03	---
Familia Diodontidae					
86 <i>Diodon hystrix</i>	---	---	---	---	---
Familia Ostraciidae					
87 <i>Ostracion meleagris</i>	---	---	---	---	---
Familia Tetraodontidae					
88 <i>Arothron hispidus</i>	---	---	---	0.03	---
89 <i>Arothron meleagris</i>	0.03	---	---	---	---
90 <i>Canthigaster punctatissima</i>	0.03±0	---	---	---	0.03
S	23	29	9	27	22
H'(log10)	0.8477	1.058	0.6364	1.084	1.008
Δ*	50.92	69.43	49.89	51.45	48.64