

Table S2 – Abundance and biomass mean($\pm$ sd) of fishes assemblages in unprotected sites, Abrolhos National Marine Park (ANMP) and Marine Extractive Reserve Corumbau (MERCOR) at different levels of protection (NTZ: no-take zone; UP: unprotected zone) registered at Abrolhos Bank, Bahia. Abu: abundance (ind/80m²); Bio: biomass (g/80m²).

Species	UPI		UP2		ANMP_NTZ1		ANMP_NTZ2		MERCOR_UPI		MERCOR_UP2		MERCOR_NTZ1	
	Abu	Bio	Abu	Bio	Abu	Bio	Abu	Bio	Abu	Bio	Abu	Bio	Abu	Bio
<i>Abudefduf saxatilis</i>	14.7 (± 2.2)	127.8 (± 17.8)	37.7 (± 2.7)	563.1 (± 62.2)	44.3 (± 10.2)	1972.4 (± 721.1)	15 (± 4.6)	1123.8 (± 442.7)	38.3 (± 9)	551.7 (± 93)	129.7 (± 15.8)	2016.4 (± 265.1)	61 (± 9.4)	1660.9 (± 331.8)
<i>Acanthurus bahianus</i>	139.3 (± 4.9)	2169.3 (± 254.2)	101.3 (± 6.4)	1858.4 (± 342.6)	38.3 (± 11.3)	1870.4 (± 408.7)	202 (± 24.7)	9716.3 (± 2233.6)	10.3 (± 3.5)	1284.1 (± 579.5)	13.7 (± 2.6)	850.9 (± 214.2)	4.7 (± 2.9)	488.4 (± 398.5)
<i>Acanthurus chirurgus</i>	54.3 (± 4.6)	2011.2 (± 219)	46.7 (± 4.1)	6619.1 (± 968.6)	50.3 (± 5.7)	8634.8 (± 1144.9)	60.7 (± 9.5)	9584 (± 2291.2)	87.7 (± 20.7)	26413.3 (± 8159.2)	122 (± 11.3)	26236.5 (± 4775.4)	84.7 (± 11.8)	21276.4 (± 4838.6)
<i>Acanthurus coeruleus</i>	26 (± 2.1)	4597.1 (± 823)	1.3 (± 0.6)	203.4 (± 191.6)	25.3 (± 2.3)	4245.6 (± 642.2)	19.3 (± 4.6)	4255 (± 1929.6)	83 (± 14.6)	13961.2 (± 2742.6)	62.3 (± 7.1)	10426.1 (± 1973.6)	34 (± 5.4)	9516.2 (± 2964.7)
<i>Anisotremus moricandi</i>	1 (± 0)	30.2 (± 0)	0	0	0	0	0	0	0	0	0.3 (± 0)	47.3 (± 0)	0	0
<i>Anisotremus surinamensis</i>	2 (± 1.7)	2135.6 (± 1349)	0	0	0	0	1 (± 0)	3215.2 (± 1692)	2.3 (± 0)	25.1 (± 0)	0	0	0.7 (± 0)	1614.3 (± 1617.6)
<i>Anisotremus virginicus</i>	18 (± 1)	2181.2 (± 367.7)	11 (± 0.9)	331.3 (± 44.4)	11 (± 1.1)	1782.7 (± 298.9)	11.7 (± 2)	2297 (± 824)	6.7 (± 0.5)	241.7 (± 45.1)	14.3 (± 1.7)	938.4 (± 294.5)	11 (± 1.20)	957.9 (± 270.3)
<i>Balistes vetula</i>	0	0	0 (± 0)	477.6 (± 0)	0	0	1.3 (± 0.6)	1129.6 (± 770.6)	0	0	0	0	0	0
<i>Calamus pennatula</i>	1 (± 0)	158.8 (± 68.2)	0.7 (± 0)	53.4 (± 0)	0	0	0.7 (± 0)	310.8 (± 0)	0	0	0.3 (± 0)	128.7 (± 0)	1.3 (± 0)	747.2 (± 108.8)
<i>Canthigaster figueiredoi</i>	0	0	0	0	0	0	0.7 (± 0)	7 (± 0)	0	0	0	0	0	0
<i>Cantherhines macrocerus</i>	0.3 (± 0)	429 (± 0)	0	0	6.7 (± 0.6)	2504.8 (± 229.7)	0.7 (± 0)	90.1 (± 124.6)	0	0	0	0	0	0
<i>Cantherhines pullus</i>	0.7 (± 0)	93.5 (± 174.4)	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carangoides bartholomaei</i>	0.3 (± 0)	34.7 (± 0)	4 (± 4.2)	165.9 (± 272.9)	0	0	32 (± 12.8)	12391.5 (± 5467)	9.7 (± 6.4)	1783.4 (± 1573)	7.3 (± 9.3)	228.6 (± 299.7)	8 (± 7)	170.4 (± 265.6)
<i>Caranx crysos</i>	0	0	0	0	0	0	0.3 (± 0)	242.1 (± 0)	0	0	0	0	0	0
<i>Caranx hippos</i>	0	0	0	0	0	0	0.3 (± 0)	88 (± 0)	0	0	0	0	0	0
<i>Caranx latus</i>	0	0	2.7 (± 0)	140.3 (± 0)	0	0	0	0	3 (± 4.9)	2672.5 (± 5655)	5.3 (± 0)	3245.5 (± 6289.5)	3.7 (± 3.5)	2295.2 (± 4786)
<i>Caranx ruber</i>	0	0	0	0	0.3 (± 0)	50.1 (± 0)	35.3 (± 11)	11784.2 (± 4034.1)	16.7 (± 19.8)	4499.6 (± 7287.8)	8.7 (± 7.1)	1629.7 (± 2791)	2.3 (± 1.1)	41.4 (± 29.9)
<i>Cephalopholis fulva</i>	0.7 (± 0)	38.9 (± 56.7)	0	0	0	0	0	0	0	0	0.3 (± 0)	49.1 (± 0)	2.3 (± 0.9)	846.8 (± 575.4)
<i>Chaenopsis ocellata</i>	3.7 (± 1)	164.1 (± 106)	1 (± 0.7)	4.4 (± 1.2)	0	0	0	0	0.3 (± 0)	9 (± 0)	1.3 (± 0.6)	31 (± 14)	0	0
<i>Chaetodon striatus</i>	12.7 (± 1.5)	236.4 (± 38.2)	9.3 (± 0.9)	115.7 (± 28.9)	2.3 (± 0.4)	115.4 (± 55.7)	16 (± 1.5)	274 (± 37.1)	0	0	1.3 (± 0)	30 (± 13.9)	0.3 (± 0)	65.3 (± 0)
<i>Chloroscombrus chrysurus</i>	0	0	2.7 (± 0)	29.9 (± 0)	0	0	0	0	0	0	0	0	0	0
<i>Coryphopterus glaucofraenum</i>	1.7	1.54	1.7	281.4	0	0	0	0	0.3	0.5	1	4	1.3	5.7

	(±0.5)	(±0.8)	(±0.5)	(±420.1)				(±0)	(±0)	(±0)	(±3.6)	(±0.6)	(±1.9)
<i>Diodon hystrix</i>	0.3 (±0)	2470.8 (±0)	0	0	0	0	0.7 (±0)	698.1 (±277.5)	0	0	0	0	0
<i>Elacatinus figaro</i>	0.3 (±0)	0.1 (±0)	1.3 (±1.4)	0.6 (±0.6)	3.7 (±0.7)	1.3 (±0.4)	3.7 (±1.3)	1 (±0.5)	0.3 (±0)	0.5 (±0)	2.7 (±0.6)	1 (±0.8)	0
<i>Emblemariopsis signifer</i>	0.7 (±0)	0.03 (±0)	0	0	0	0	0	0	0.3 (±0)	0.01 (±0)	0.7 (±0)	0.1 (±0)	0
<i>Epinephelus adscensionis</i>	0	0	0.3 (±0)	9.7 (±0)	0	0	0	0	0	0	0	0	0
<i>Epinephelus itajara</i>	0	0	0	0	0.3 (±0)	1786.2 (±0)	0	0	0	0	0	0	0
<i>Epinephelus morio</i>	3 (±1.3)	528.4 (±349.4)	0.3 (±0)	227.8 (±0)	0	0	1.3 (±1.4)	5376 (±8806.6)	0	0	0	0	0.3 (±0)
<i>Gramma brasiliensis</i>	0	0	1 (±0)	0.1 (±0)	3 (±0.8)	2.6 (±0.9)	0.7 (±0)	0.4 (±0.5)	0	0	2.3 (±0.5)	5.8 (±2.5)	0
<i>Gymnothorax vicinus</i>	0	0	0	0	0	0	0.3 (±0)	1.8 (±0)	0	0	0.3 (±0)	60.4 (±0)	0
<i>Haemulon aurolineatum</i>	87.7 (±15.4)	1954.1 (±446.8)	183 (±20.2)	2300.6 (±323.1)	73.3 (±37.9)	3184.2 (±3416.9)	39 (±24.5)	945.4 (±669.4)	116 (±20.1)	5091.5 (±1825)	439.7 (±154.2)	10205.7 (±3099.4)	69.7 (±60.9)
<i>Haemulon parra</i>	1.3 (±1.4)	98.2 (±129.4)	0.7 (±0)	38.9 (±0)	2.7 (±0)	644.3 (±0)	220.7 (±144.7)	9385.2 (±4809.8)	5 (±1.6)	95.6 (±8)	11 (±6.4)	98.1 (±51.7)	30.3 (±14.3)
<i>Haemulon plumieri</i>	10.3 (±0.9)	1707 (±268)	3.3 (±1.6)	271.6 (±159.1)	3.7 (±0.4)	1045 (±310.1)	194.7 (±32.1)	12767.8 (±1989.4)	3.3 (±1.1)	17.4 (±9.1)	41.3 (±14.1)	4384.2 (±1403.6)	3.3 (±1.7)
<i>Halichoeres brasiliensis</i>	4 (±0.5)	754.6 (±379.50)	0.3 (±0)	17 (±0)	0	0	4.7 (±1)	795.1 (±199.5)	1 (±0)	169.3 (±63.7)	1 (±0)	111.9 (±111.4)	1 (±0.7)
<i>Halichoeres poeyi</i>	31.7 (±4.1)	109.8 (±14.3)	7.3 (±1.2)	81.4 (±42.7)	0	0	83.3 (±8.4)	244.2 (±26)	4.7 (±0.6)	33.1 (±9.7)	8.3 (±1.7)	222.9 (±99.7)	1 (±0)
<i>Holocentrus adscensionis</i>	7.3 (±1.1)	227.9 (±128.7)	14.7 (±0)	60.3 (±0)	0.7 (±0)	117.7 (±32.1)	10 (±2)	803.9 (±278.3)	0.3 (±0)	38.6 (±0)	2 (±0.4)	186.5 (±64.3)	0.3 (±0)
<i>Holocanthus ciliaries</i>	0	0	0	0	4.3 (±0.5)	1291.8 (±257.9)	3 (±0.3)	382.5 (±183.3)	0	0	9.7 (±1.5)	3603 (±1016)	3 (±0.5)
<i>Labrisomus nuchipinnis</i>	0	0	0	0	0	0	0.3 (±0)	6.8 (±0)	0	0	0.7 (±0)	8.8 (±10.3)	0.3 (±0)
<i>Lutjanus alexandrei</i>	1.3 (±0)	596.7 (±0)	0.3 (±0)	25.9 (±0)	0	0	0	0	0	0	0	0	0
<i>Lutjanus jocu</i>	8.7 (±3.5)	3678.5 (±1435)	3.7 (±0.7)	734.1 (±296.4)	4.7 (±1.4)	4404.8 (±1167.9)	5 (±1.2)	7761.2 (±1797.9)	0	0	0	0	0.7 (±0)
<i>Lutjanus synagris</i>	0.3 (±0)	201.8 (±0)	0	0	0	0	0	0	0	0	0	0	0
<i>Malacoctenus delalandii</i>	0.7 (±0)	0.5 (±0.6)	4 (±0.3)	1.9 (±0.3)	3 (±0.8)	1.49 (±0.5)	4.7 (±0.7)	32.2 (±29.6)	3 (±0.5)	4.8 (±1.3)	3 (±0.8)	3.6 (±20)	2.3 (±0.5)
<i>Microspathodon chrysurus</i>	0	0	0	0	0	0	0	0	12.7 (±1.4)	2548.1 (±385.5)	8.3 (±3)	1633.3 (±640.6)	1 (±0)
<i>Muraena pavonina</i>	0	0	0	0	0	0	0	0	0	0	0.3 (±0)	34.6 (±0)	0
<i>Mycteroperca bonaci</i>	0.3 (±0)	256.5 (±0)	0.3 (±0)	715.9 (±0)	6 (±0.6)	8132.1 (±1969.7)	11.3 (±1.1)	13359.9 (±2408.6)	0.3 (±0)	343.1 (±0)	3.7 (±0.7)	2573.3 (±1080.20)	4.3 (±0.9)
<i>Myrichthys ocellatus</i>	0	0	0	0	0	0	0.3 (±0)	43.4 (±0)	0	0	0	0	0
<i>Narcine brasiliensis</i>	0	0	0	0	0	0	0.3	36.8	0	0	0	0	0

<i>Ocyurus chrysurus</i>	95 (±6.8)	2871.9 (±363.5)	35.3 (±5.5)	832.6 (±188.3)	26.7 (±3.9)	2170.3 (±374)	(±0) 17.3 (±2.9)	(±0) 3010.6 (±702.2)	14 (±2.6)	536 (±86.1)	18.7 (±5.8)	750.5 (±266.6)	25.7 (±3.2)	1468 (±257.6)
<i>Ogcocephalus vespertilio</i>	0	0	0.3 (±0)	23.8 (±0)	0	0	0	0	0	0	0	0	0	0
<i>Ophioblennius trinitatis</i>	0	0	0	0	0	0	0	0	0	0	0.7 (±0)	2.5 (±0)	0	0
<i>Pareques acuminatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0.3 (±0)	0.2 (±0)
<i>Parablennius pilicornis</i>	0.3 (±0)	0.21 (±0)	4.7 (±0.9)	8.4 (±2.6)	0.3 (±0)	0.21 (±0)	0.3 (±0)	1.7 (±0)	0	0	0	0	0	0
<i>Pomacanthus arcuatus</i>	9.7 (±1.1)	3521.9 (±481.1)	3.7 (±1)	4685.8 (±2394.2)	7 (±0.6)	5260.9 (±1482.5)	3.7 (±0.5)	4022.5 (±2033.8)	0.7 (±0)	1286.9 (±549.4)	3 (±0.8)	10546.3 (±4983.3)	6 (±0.60)	6881.3 (±1128.3)
<i>Pomacanthus paru</i>	5.3 (±0.4)	1117.2 (±256.6)	10 (±1.7)	8796.4 (±2086.2)	2 (±0)	1220.1 (±436.8)	13.3 (±1.6)	9854 (±1656.7)	4.7 (±0.2)	7029.8 (±971.7)	8.3 (±0.7)	14210.7 (±2351.6)	13.7 (±1.5)	15245.1 (±3025.1)
<i>Pseudocaranx dentex</i>	0	0	7 (±10.6)	610 (±1239.3)	0	0	0	0	0	0	0	0	0	0
<i>Pseudupeneus maculatus</i>	0.3 (±0)	0.9 (±0)	9 (±3.1)	295.5 (±98.5)	0	0	14.7 (±4.3)	580.7 (±164.1)	0.3 (±0)	19 (±0)	4 (±0.9)	251.5 (±99.7)	0.3 (±0)	38.2 (±0)
<i>Rypticus saponaceus</i>	0	0	0	0	0	0	0.3 (±0)	81.8 (±0)	0	0	0	0	0	0
<i>Scartella cristata</i>	0	0	1 (±0)	1.7 (±2.8)	0	0	1.3 (±0)	0.8 (±0)	0	0	0	0	0	0
<i>Scarus trispinosus</i>	34 (±3.1)	9801.6 (±1740)	11.3 (±2.9)	1564.9 (±964.8)	49.3 (±4.9)	32190.6 (±5367)	34± (4.9)	36422.1 (±7945)	17.7 (±2)	11427.9 (±2204.8)	32.3 (±3.4)	15882.3 (±2699)	35.3 (±3.6)	25944 (±3441.4)
<i>Scarus zelindae</i>	5 (±0.9)	838.9 (±217.6)	1 (±0)	23.6 (±20.3)	11.3 (±1.2)	6713.1 (±1103.8)	7.3 (±2.3)	2315 (±1257.7)	1.3 (±0)	43.4 (±58.2)	2.3 (±1.5)	460.6 (±786.5)	0.3 (±0)	3.5 (±0)
<i>Scomberomorus cavala</i>	0.3 (±0)	2369 (±0)	0	0	0	0	0	0	0	0	0	0	0	0
<i>Serranus baldwini</i>	1.3 (±1.4)	3.3 (±2.7)	2 (±0.4)	3.8 (±1)	0	0	1.7 (±0)	2.8 (±1.1)	0	0	0.3 (±0)	0.3 (±0)	0	0
<i>Serranus flaviventris</i>	0.3 (±0)	0.4 (±0)	8.7 (±1.4)	81.9 (±27.3)	0	0	0	0	0.7 (±0)	2 (±2.41)	8 (±1.6)	61.3 (±15.3)	0.3 (±0)	1.6 (±0)
<i>Sparisoma amplum</i>	0.3 (±0)	33.6 (±0)	0	0	0	0	0	0	3.3 (±3)	729.8 (±437.9)	0.33 (±0)	0.2 (±0)	1.3 (±0)	260.5 (±352.7)
<i>Sparisoma axillare</i>	68.3 (±4.4)	938.1 (±92.4)	20.3 (±1.5)	554.8 (±113.7)	22.7 (±1.5)	1725.5 (±295)	53.3 (±4.2)	1363.8 (±262.4)	60.3 (±6.6)	3580.6 (±838.8)	31 (±3.3)	1850.8 (±368.4)	17.3 (±1.6)	582.1 (±105.1)
<i>Sparisoma frondosum</i>	1 (±0)	50.7 (±38.7)	0.3 (±0)	204.4 (±0)	6 (±0.6)	822.1 (±176.9)	0.7 (±0)	4.8 (±6.7)	0.7 (±0)	47.1 (±91.3)	12.7 (±4.8)	1069.2 (±687.3)	3.3 (±0.8)	447.4 (±169.4)
<i>Sparisoma radians</i>	2 (±1.7)	6.8 (±9.3)	0	0	0	0	0.7 (±0)	7.1 (±0)	5.3 (±3)	13.1 (±6)	0	0	0	0
<i>Sphoeroides greeleyi</i>	0	0	0	0	0	0	0	0	0.7 (±0)	6.6 (±9)	0	0	0	0
<i>Sphoeroides spengleri</i>	0	0	0	0	0	0	0.3 (±0)	1 (±0)	0	0	0	0	0	0
<i>Stegastes fuscus</i>	36 (±4.1)	357.4 (±72.6)	38.3 (±3.2)	360.3 (±54)	150 (±7.2)	983.4 (±78.9)	34 (±4.10)	256.6 (±40)	142.7 (±9.2)	1838.8 (±135)	72.3 (±4.8)	909.9 (±78.1)	67.3 (±7.6)	1010.5 (±152)
<i>Stegastes pictus</i>	6 (±1.2)	41.5 (±17.5)	0	0	105.7 (±7.6)	271.1 (±34.6)	4 (±2.6)	12.1 (±9.57)	0	0	0	0	0.3 (±0)	0.3 (±0)
<i>Stegastes variabilis</i>	5	151.6	5	26.9	5.3	24.6	31	219.6	0.3	2.9	1.7	19.7	0	0

<i>Synodus foetens</i>	(±1.1)	(±65.5)	(±1)	(±9)	(±0.6)	(±8.44)	(±2.7)	(±48.6)	(±0)	(±0)	(±0.7)	(±11.8)		
	0	0	0	0	0	0	1	220.7	0	0	0	0	0	0
<i>Synodus intermedius</i>	0.3	3.7	0	0	0	0	(±0.7)	(±358.7)	0	0	0	0	0	0
	(±0)	(±0)					0	0	0	0	0	0		