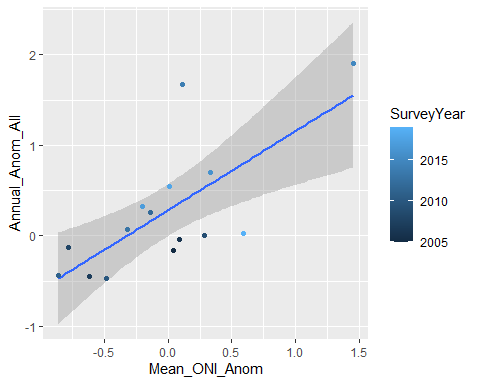
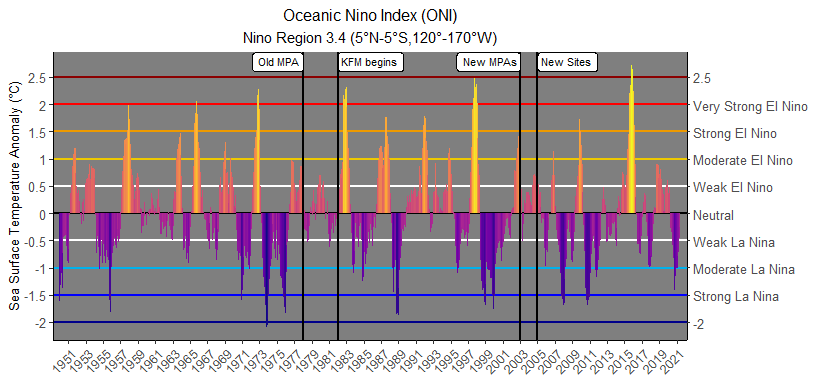
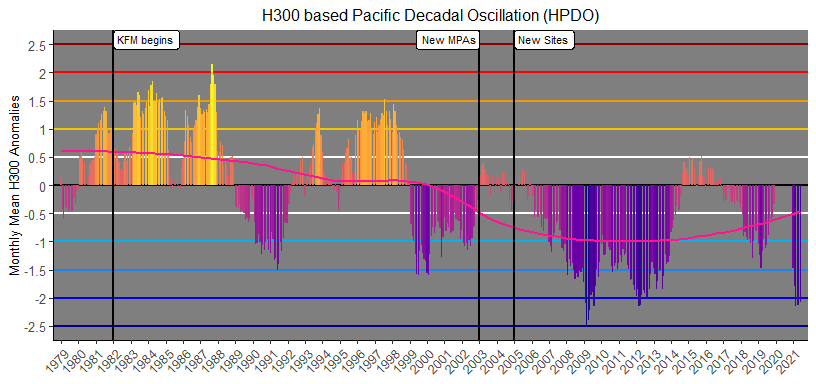
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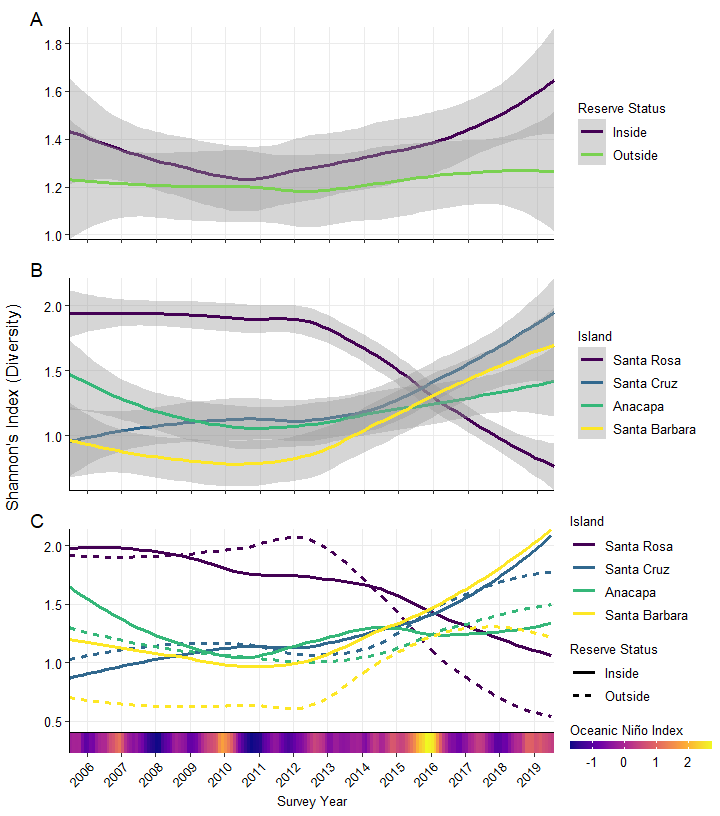
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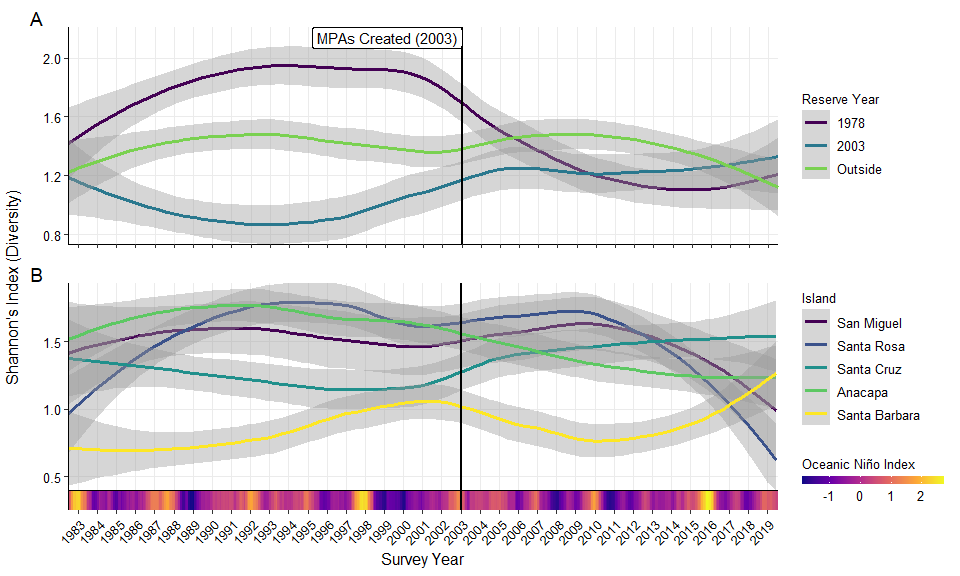


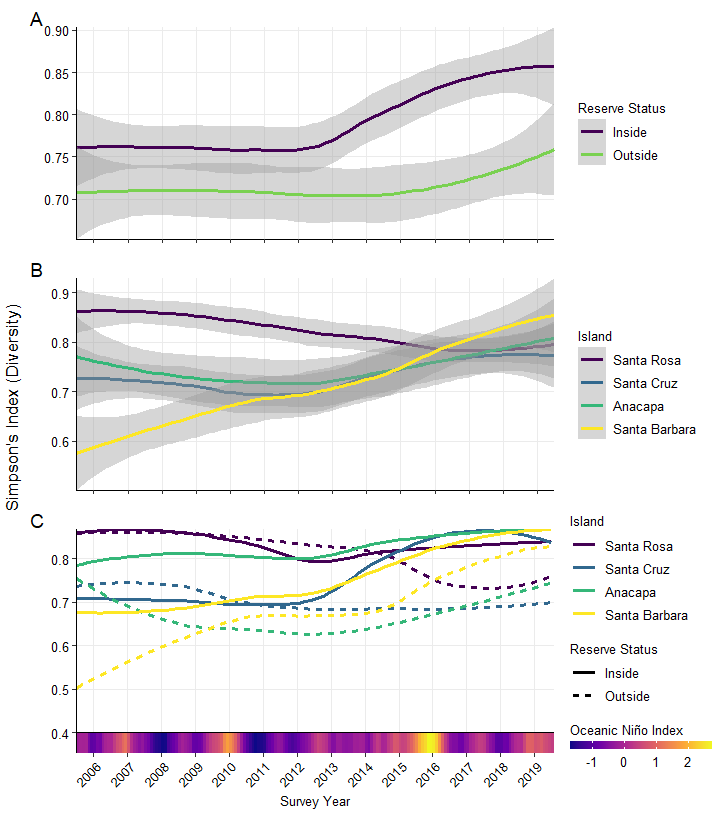
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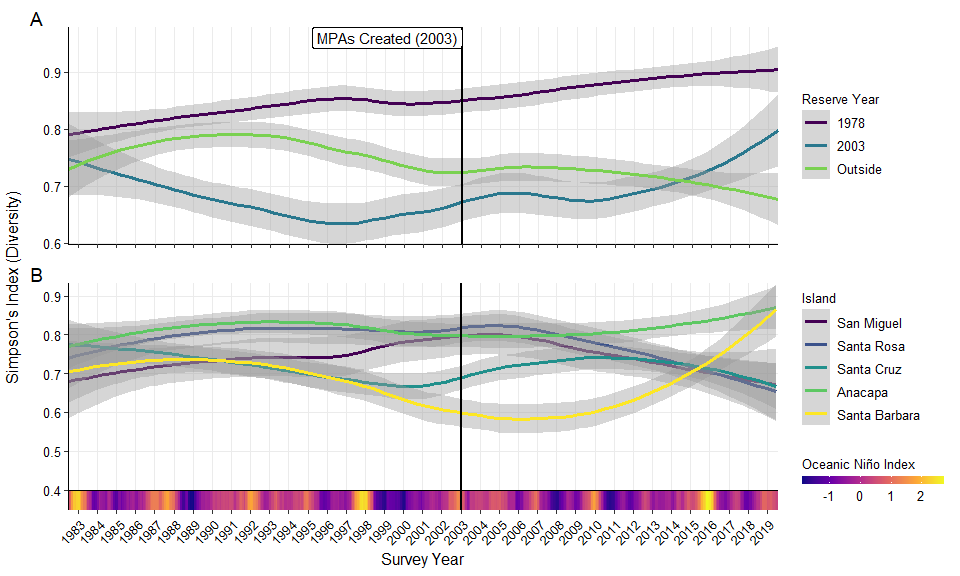


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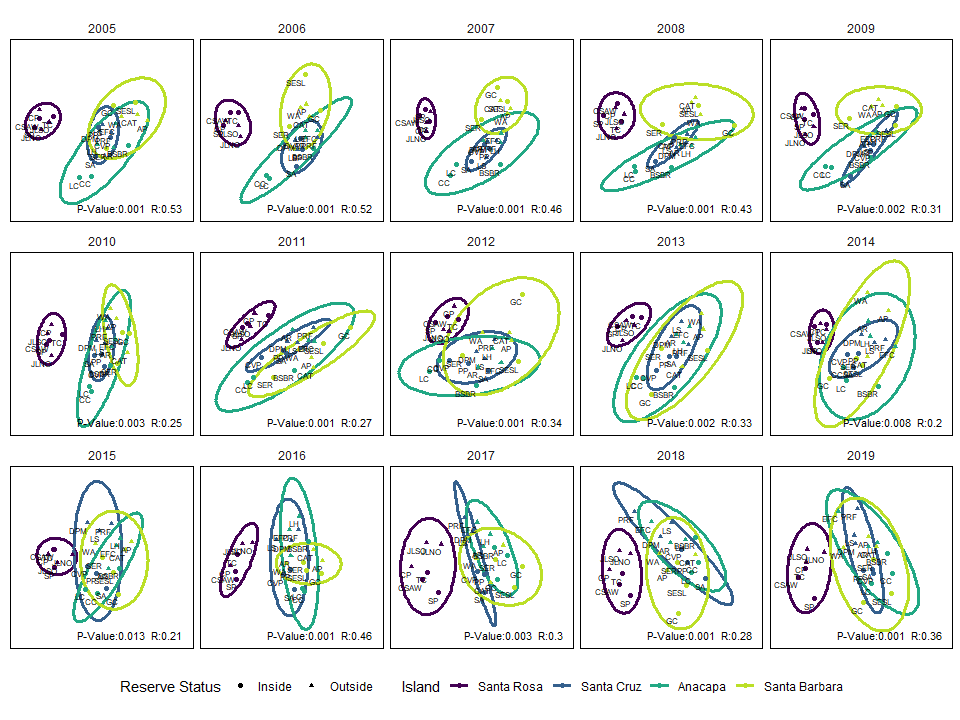


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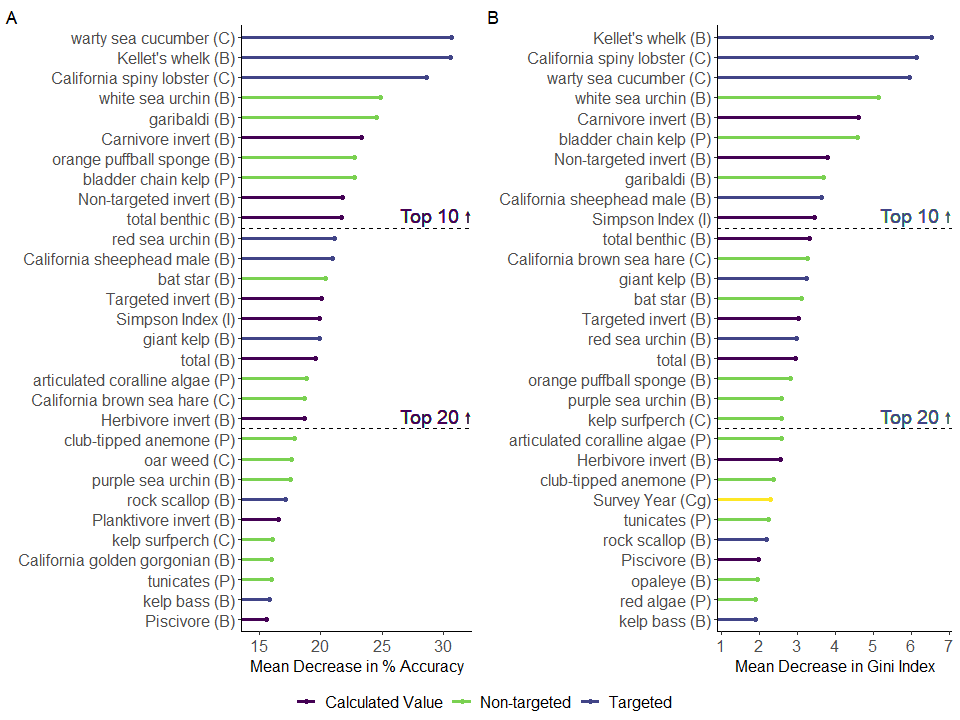


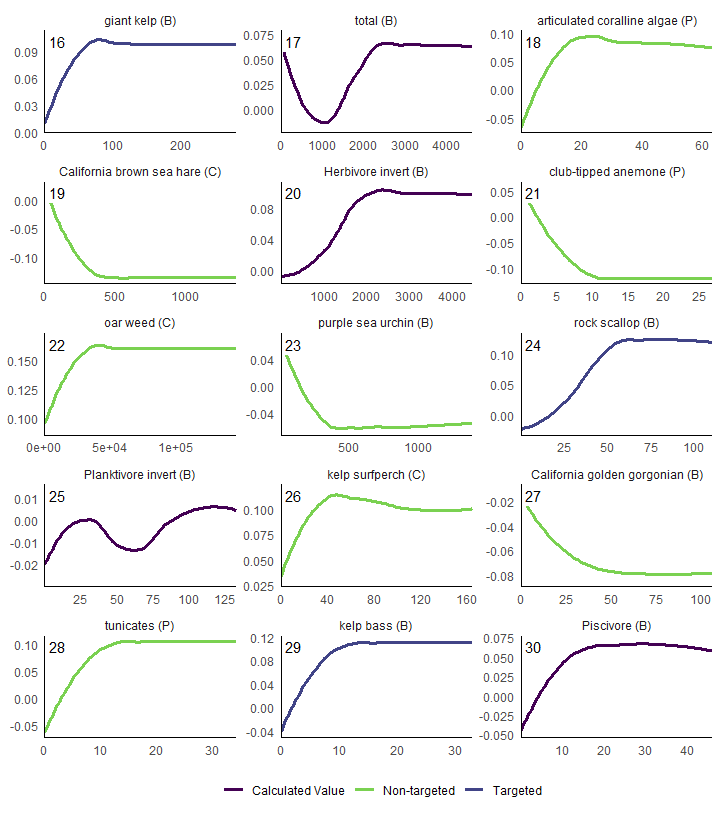
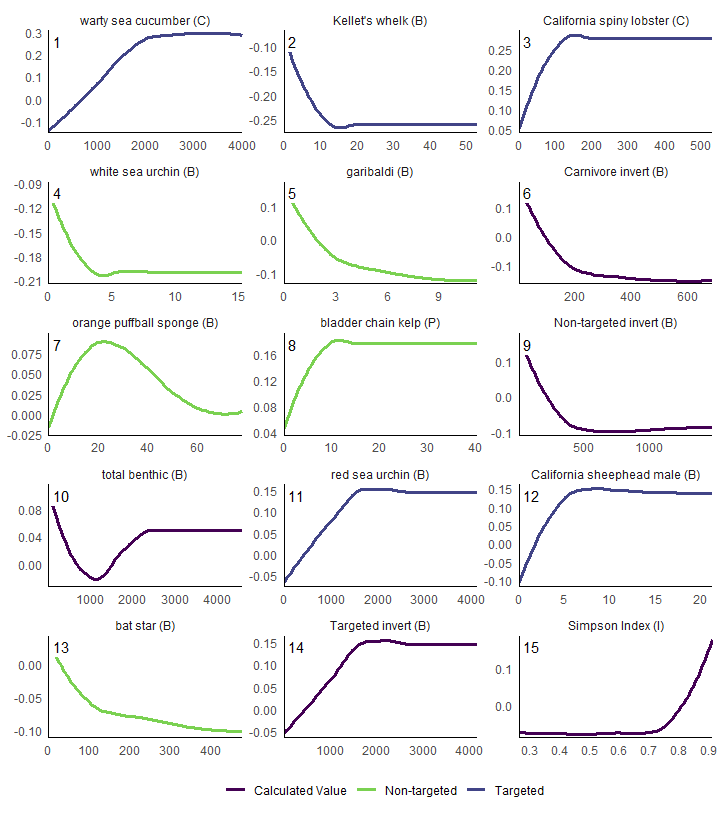


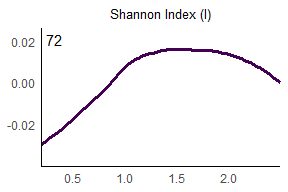
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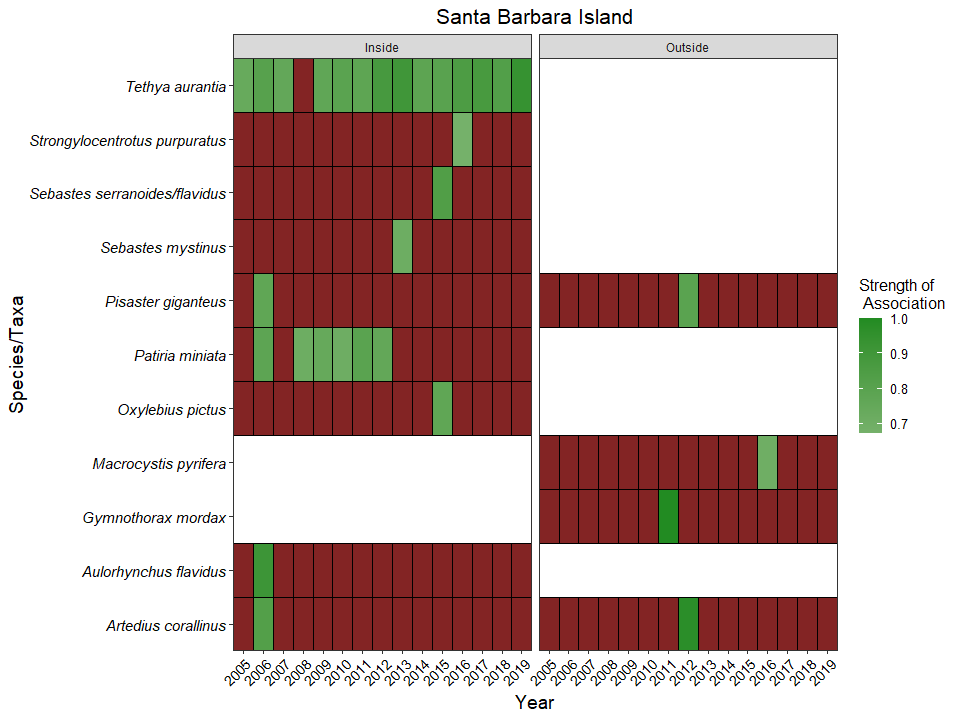
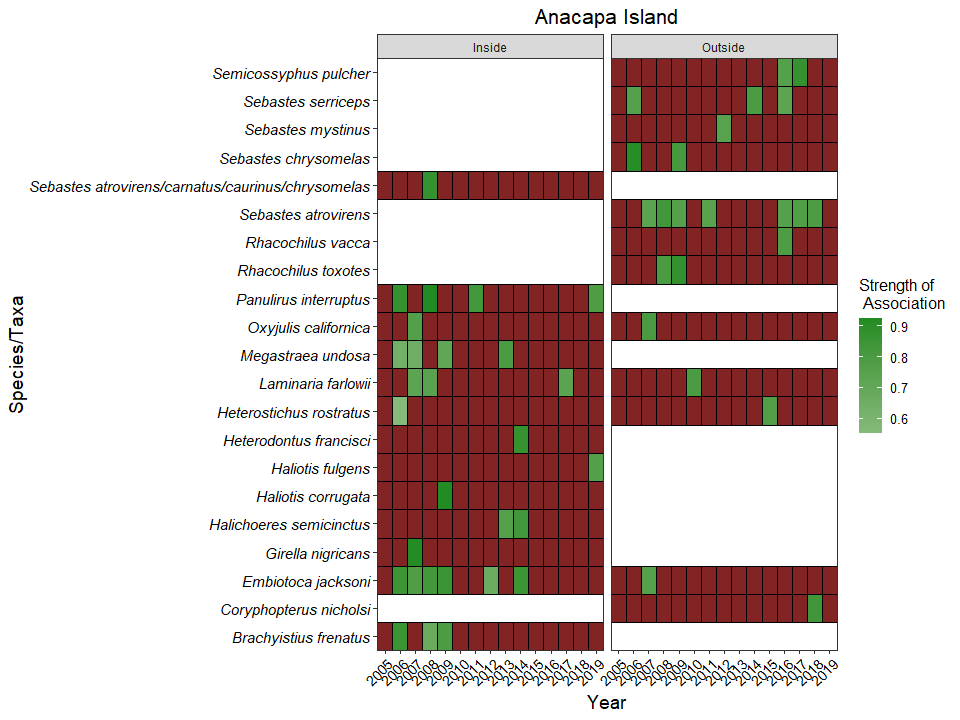
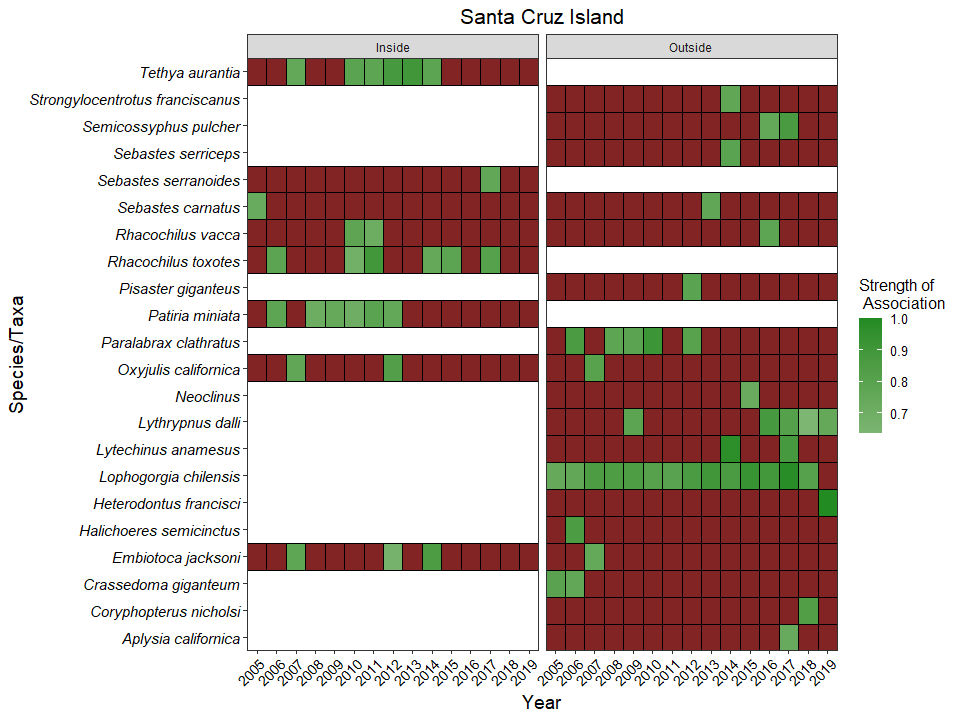
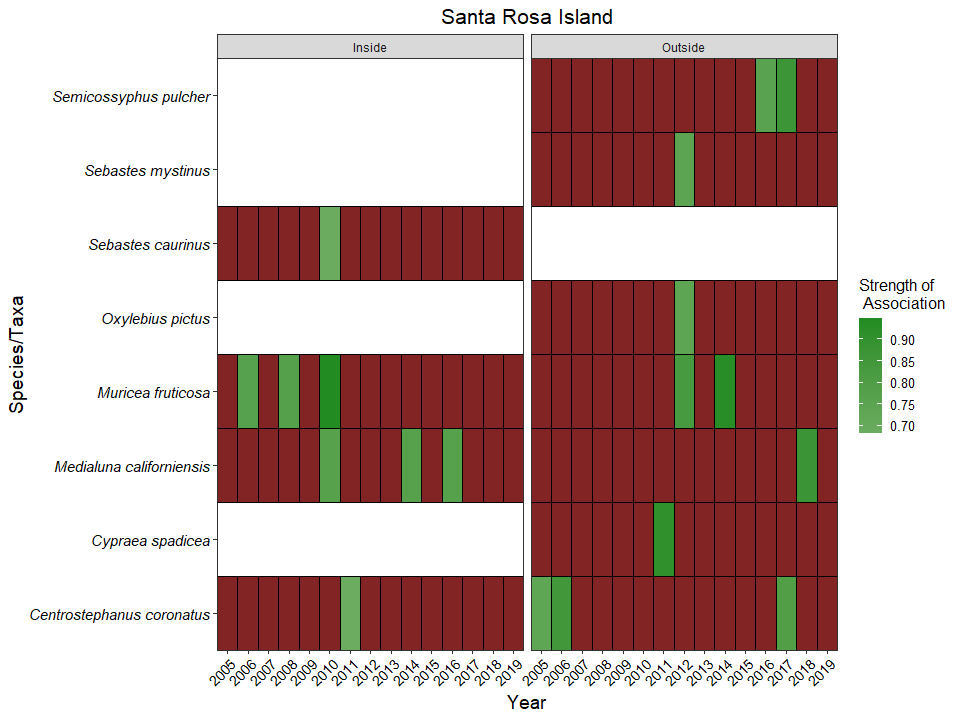
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| California\_sheephead\_female | 7.9834438 | 1 | 289.8455 | 0.0050486 |
| sunflower\_star | 22.5251467 | 1 | 321.5519 | 0.0000031 |
| giant\_spined\_sea\_star | 7.4688991 | 1 | 149.1769 | 0.0070364 |
| IslandCode | 7.8499776 | 3 | 322.8478 | 0.0000452 |
| California\_spiny\_lobster:California\_sheephead\_male | 1.8785534 | 1 | 324.1060 | 0.1714471 |
| California\_spiny\_lobster:California\_sheephead\_female | 0.7016181 | 1 | 324.4974 | 0.4028570 |
| California\_sheephead\_male:California\_sheephead\_female | 0.0005931 | 1 | 307.5525 | 0.9805859 |
| California\_spiny\_lobster:sunflower\_star | 0.1148373 | 1 | 324.9834 | 0.7349216 |
| California\_sheephead\_male:sunflower\_star | 2.0542512 | 1 | 319.7340 | 0.1527589 |
| California\_sheephead\_female:sunflower\_star | 0.1062544 | 1 | 321.8056 | 0.7446613 |
| California\_spiny\_lobster:giant\_spined\_sea\_star | 15.5347460 | 1 | 324.6644 | 0.0000992 |
| California\_sheephead\_male:giant\_spined\_sea\_star | 6.2652129 | 1 | 315.5140 | 0.0128183 |
| California\_sheephead\_female:giant\_spined\_sea\_star | 2.4401735 | 1 | 288.6193 | 0.1193589 |
| sunflower\_star:giant\_spined\_sea\_star | 2.6492328 | 1 | 324.9931 | 0.1045689 |
| California\_spiny\_lobster:California\_sheephead\_male:California\_sheephead\_female | 0.6567325 | 1 | 324.9324 | 0.4183090 |
| California\_spiny\_lobster:California\_sheephead\_male:sunflower\_star | 0.0048359 | 1 | 324.6153 | 0.9446019 |
| California\_spiny\_lobster:California\_sheephead\_female:sunflower\_star | 0.0002668 | 1 | 324.2428 | 0.9869773 |
| California\_sheephead\_male:California\_sheephead\_female:sunflower\_star | 2.9708956 | 1 | 316.8132 | 0.0857505 |
| California\_spiny\_lobster:California\_sheephead\_male:giant\_spined\_sea\_star | 0.0710929 | 1 | 324.9999 | 0.7899212 |
| California\_spiny\_lobster:California\_sheephead\_female:giant\_spined\_sea\_star | 3.9604712 | 1 | 321.6034 | 0.0474270 |
| California\_sheephead\_male:California\_sheephead\_female:giant\_spined\_sea\_star | 0.9868052 | 1 | 320.8680 | 0.3212730 |
| California\_spiny\_lobster:sunflower\_star:giant\_spined\_sea\_star | 0.7757912 | 1 | 324.7514 | 0.3790828 |
| California\_sheephead\_male:sunflower\_star:giant\_spined\_sea\_star | 0.0652379 | 1 | 324.8669 | 0.7985626 |
| California\_sheephead\_female:sunflower\_star:giant\_spined\_sea\_star | 0.6580672 | 1 | 324.0667 | 0.4178385 |
| California\_spiny\_lobster:California\_sheephead\_male:California\_sheephead\_female:sunflower\_star | 0.0969773 | 1 | 323.6029 | 0.7556881 |
| California\_spiny\_lobster:California\_sheephead\_male:California\_sheephead\_female:giant\_spined\_sea\_star | 20.6146905 | 1 | 324.1933 | 0.0000079 |
| California\_spiny\_lobster:California\_sheephead\_male:sunflower\_star:giant\_spined\_sea\_star | 0.1228727 | 1 | 324.4827 | 0.7261669 |
| California\_spiny\_lobster:California\_sheephead\_female:sunflower\_star:giant\_spined\_sea\_star | 0.0483136 | 1 | 324.3478 | 0.8261624 |
| California\_sheephead\_male:California\_sheephead\_female:sunflower\_star:giant\_spined\_sea\_star | 0.0057518 | 1 | 321.3441 | 0.9395932 |
| California\_spiny\_lobster:California\_sheephead\_male:California\_sheephead\_female:sunflower\_star:giant\_spined\_sea\_star | 0.9540105 | 1 | 324.9076 | 0.3294272 |

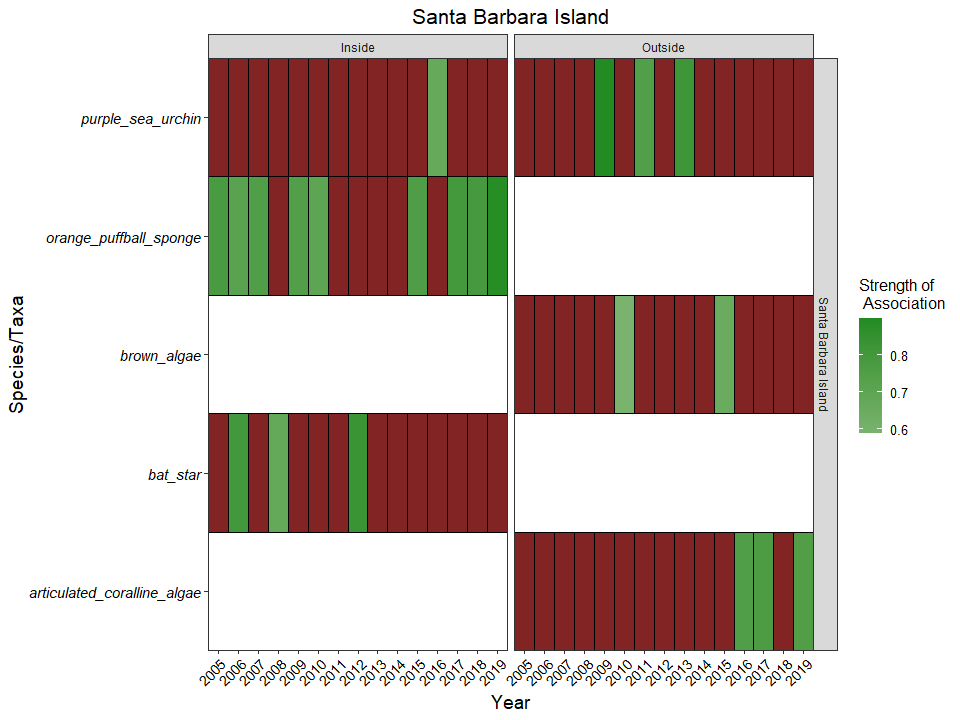
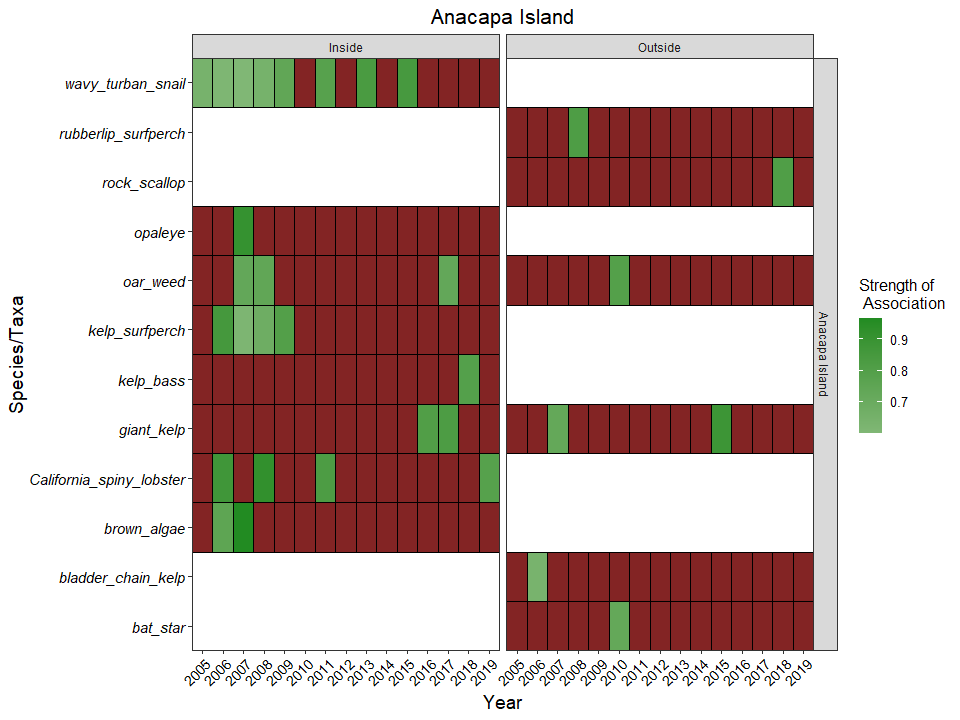
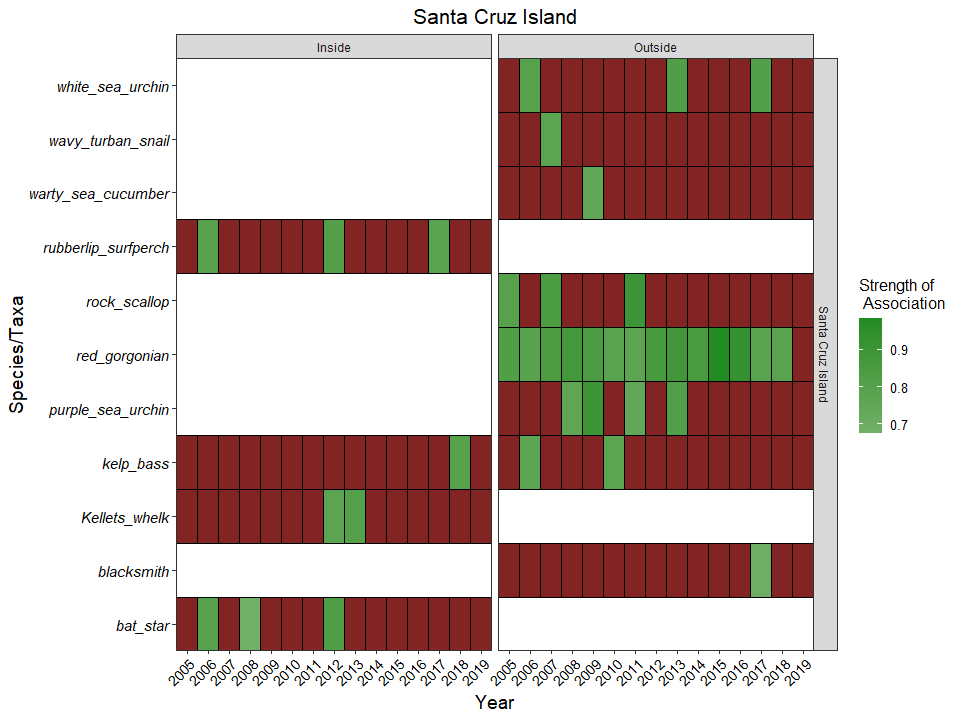
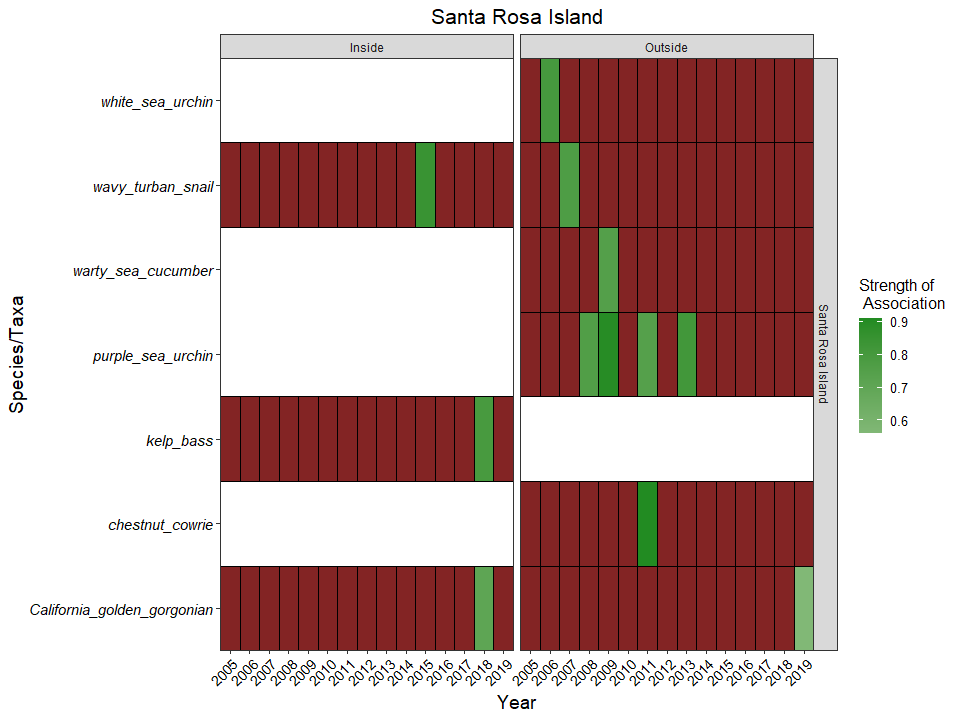
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| California\_sheephead\_male | 2.0275905 | 1 | 323.6603 | 0.1554287 |
| California\_sheephead\_female | 4.3928326 | 1 | 299.7178 | 0.0369288 |
| sunflower\_star | 18.9706678 | 1 | 323.5643 | 0.0000178 |
| giant\_spined\_sea\_star | 15.5568592 | 1 | 166.1584 | 0.0001179 |
| IslandCode | 12.0410031 | 3 | 322.5245 | 0.0000002 |
| California\_spiny\_lobster:California\_sheephead\_male | 4.4958175 | 1 | 324.9173 | 0.0347353 |
| California\_spiny\_lobster:California\_sheephead\_female | 0.0431320 | 1 | 324.9983 | 0.8356070 |
| California\_sheephead\_male:California\_sheephead\_female | 1.3956396 | 1 | 313.5379 | 0.2383503 |
| California\_spiny\_lobster:sunflower\_star | 0.1095508 | 1 | 324.8904 | 0.7408695 |
| California\_sheephead\_male:sunflower\_star | 0.4403980 | 1 | 318.8643 | 0.5074099 |
| California\_sheephead\_female:sunflower\_star | 0.0256026 | 1 | 320.8583 | 0.8729754 |
| California\_spiny\_lobster:giant\_spined\_sea\_star | 2.4005463 | 1 | 324.1985 | 0.1222685 |
| California\_sheephead\_male:giant\_spined\_sea\_star | 0.0530154 | 1 | 319.9008 | 0.8180441 |
| California\_sheephead\_female:giant\_spined\_sea\_star | 0.9699909 | 1 | 297.1586 | 0.3254837 |
| sunflower\_star:giant\_spined\_sea\_star | 7.1275759 | 1 | 324.9164 | 0.0079722 |
| California\_spiny\_lobster:California\_sheephead\_male:California\_sheephead\_female | 0.0381416 | 1 | 324.8859 | 0.8452811 |
| California\_spiny\_lobster:California\_sheephead\_male:sunflower\_star | 1.6383578 | 1 | 323.8787 | 0.2014670 |
| California\_spiny\_lobster:California\_sheephead\_female:sunflower\_star | 0.8749786 | 1 | 323.3021 | 0.3502789 |
| California\_sheephead\_male:California\_sheephead\_female:sunflower\_star | 0.4888229 | 1 | 316.1430 | 0.4849669 |
| California\_spiny\_lobster:California\_sheephead\_male:giant\_spined\_sea\_star | 1.5906900 | 1 | 324.7636 | 0.2081328 |
| California\_spiny\_lobster:California\_sheephead\_female:giant\_spined\_sea\_star | 1.0255167 | 1 | 320.5944 | 0.3119776 |
| California\_sheephead\_male:California\_sheephead\_female:giant\_spined\_sea\_star | 0.0235768 | 1 | 320.1345 | 0.8780634 |
| California\_spiny\_lobster:sunflower\_star:giant\_spined\_sea\_star | 0.0696664 | 1 | 324.9898 | 0.7919904 |
| California\_sheephead\_male:sunflower\_star:giant\_spined\_sea\_star | 0.6205506 | 1 | 324.3296 | 0.4314181 |
| California\_sheephead\_female:sunflower\_star:giant\_spined\_sea\_star | 0.0013585 | 1 | 323.3280 | 0.9706210 |
| California\_spiny\_lobster:California\_sheephead\_male:California\_sheephead\_female:sunflower\_star | 0.1505882 | 1 | 324.7198 | 0.6982282 |
| California\_spiny\_lobster:California\_sheephead\_male:California\_sheephead\_female:giant\_spined\_sea\_star | 0.1834214 | 1 | 323.4048 | 0.6687344 |
| California\_spiny\_lobster:California\_sheephead\_male:sunflower\_star:giant\_spined\_sea\_star | 0.9394093 | 1 | 324.9806 | 0.3331506 |
| California\_spiny\_lobster:California\_sheephead\_female:sunflower\_star:giant\_spined\_sea\_star | 0.3948712 | 1 | 324.9560 | 0.5301913 |
| California\_sheephead\_male:California\_sheephead\_female:sunflower\_star:giant\_spined\_sea\_star | 13.5560723 | 1 | 320.2754 | 0.0002717 |
| California\_spiny\_lobster:California\_sheephead\_male:California\_sheephead\_female:sunflower\_star:giant\_spined\_sea\_star | 0.1022450 | 1 | 324.4243 | 0.7493579 |

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| California\_sheephead\_female | 7.9996762 | 1 | 310.5692 | 0.0049827 |
| sunflower\_star | 1.9853174 | 1 | 324.8632 | 0.1597878 |
| giant\_spined\_sea\_star | 0.0320034 | 1 | 192.9640 | 0.8582079 |
| IslandCode | 6.5955364 | 3 | 322.0084 | 0.0002448 |
| California\_spiny\_lobster:California\_sheephead\_male | 2.2144009 | 1 | 324.7312 | 0.1376985 |
| California\_spiny\_lobster:California\_sheephead\_female | 0.9724189 | 1 | 324.4245 | 0.3248125 |
| California\_sheephead\_male:California\_sheephead\_female | 6.6524308 | 1 | 319.6013 | 0.0103487 |
| California\_spiny\_lobster:sunflower\_star | 0.1828701 | 1 | 324.1768 | 0.6692021 |
| California\_sheephead\_male:sunflower\_star | 2.2519890 | 1 | 317.6972 | 0.1344359 |
| California\_sheephead\_female:sunflower\_star | 0.4403526 | 1 | 319.4978 | 0.5074309 |
| California\_spiny\_lobster:giant\_spined\_sea\_star | 2.2082937 | 1 | 323.3246 | 0.1382448 |
| California\_sheephead\_male:giant\_spined\_sea\_star | 2.6127376 | 1 | 323.5806 | 0.1069831 |
| California\_sheephead\_female:giant\_spined\_sea\_star | 2.0473607 | 1 | 307.3694 | 0.1534862 |
| sunflower\_star:giant\_spined\_sea\_star | 0.1336687 | 1 | 324.4024 | 0.7148964 |
| California\_spiny\_lobster:California\_sheephead\_male:California\_sheephead\_female | 0.2324352 | 1 | 323.8890 | 0.6300496 |
| California\_spiny\_lobster:California\_sheephead\_male:sunflower\_star | 0.0742432 | 1 | 322.4658 | 0.7854304 |
| California\_spiny\_lobster:California\_sheephead\_female:sunflower\_star | 0.2310898 | 1 | 321.6903 | 0.6310437 |
| California\_sheephead\_male:California\_sheephead\_female:sunflower\_star | 0.3662177 | 1 | 315.2663 | 0.5455085 |
| California\_spiny\_lobster:California\_sheephead\_male:giant\_spined\_sea\_star | 0.4865264 | 1 | 323.8193 | 0.4859814 |
| California\_spiny\_lobster:California\_sheephead\_female:giant\_spined\_sea\_star | 0.1394698 | 1 | 319.1673 | 0.7090566 |
| California\_sheephead\_male:California\_sheephead\_female:giant\_spined\_sea\_star | 0.0252427 | 1 | 319.0875 | 0.8738642 |
| California\_spiny\_lobster:sunflower\_star:giant\_spined\_sea\_star | 0.2363571 | 1 | 324.3086 | 0.6271780 |
| California\_sheephead\_male:sunflower\_star:giant\_spined\_sea\_star | 0.4553430 | 1 | 323.1046 | 0.5002911 |
| California\_sheephead\_female:sunflower\_star:giant\_spined\_sea\_star | 0.0090267 | 1 | 322.1090 | 0.9243668 |
| California\_spiny\_lobster:California\_sheephead\_male:California\_sheephead\_female:sunflower\_star | 0.0085332 | 1 | 324.9161 | 0.9264568 |
| California\_spiny\_lobster:California\_sheephead\_male:California\_sheephead\_female:giant\_spined\_sea\_star | 0.1257931 | 1 | 322.0443 | 0.7230666 |
| California\_spiny\_lobster:California\_sheephead\_male:sunflower\_star:giant\_spined\_sea\_star | 0.1676858 | 1 | 324.6498 | 0.6824468 |
| California\_spiny\_lobster:California\_sheephead\_female:sunflower\_star:giant\_spined\_sea\_star | 0.0816778 | 1 | 324.7160 | 0.7752187 |
| California\_sheephead\_male:California\_sheephead\_female:sunflower\_star:giant\_spined\_sea\_star | 0.0376915 | 1 | 318.7979 | 0.8461876 |
| California\_spiny\_lobster:California\_sheephead\_male:California\_sheephead\_female:sunflower\_star:giant\_spined\_sea\_star | 0.8906287 | 1 | 323.2478 | 0.3460118 |

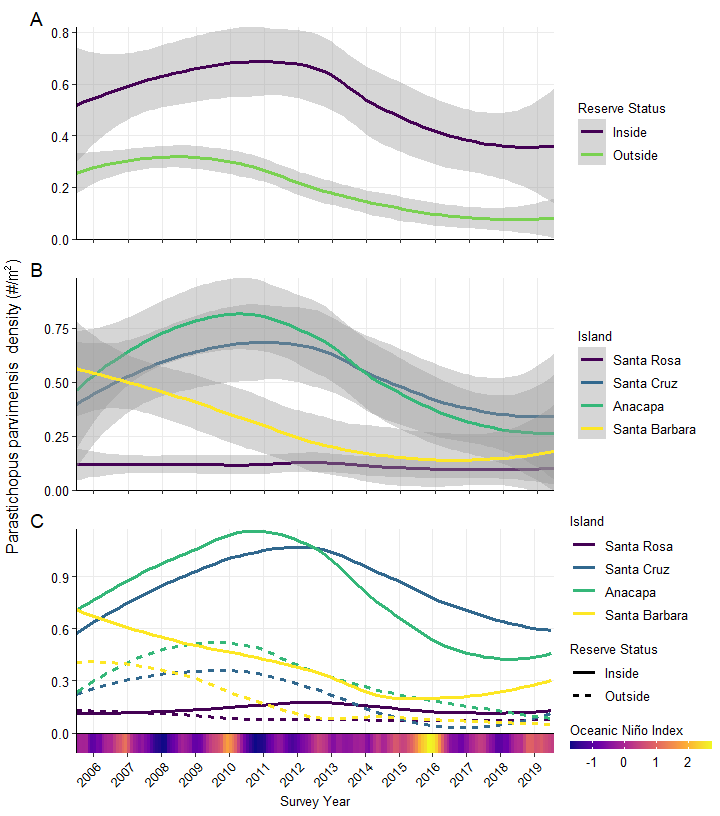
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| California\_sheephead\_female | 2.9233458 | 1 | 296.6162 | 0.0883525 |
| sunflower\_star | 0.3920686 | 1 | 303.7803 | 0.5316842 |
| giant\_spined\_sea\_star | 4.0856144 | 1 | 146.6374 | 0.0450692 |
| white\_sea\_urchin | 7.3146849 | 1 | 314.0942 | 0.0072123 |
| red\_sea\_urchin | 1.6685459 | 1 | 317.8313 | 0.1973919 |
| purple\_sea\_urchin | 15.7193416 | 1 | 317.7584 | 0.0000908 |
| IslandCode | 2.0339261 | 3 | 316.4217 | 0.1090498 |
| California\_spiny\_lobster:California\_sheephead\_male | 15.1443455 | 1 | 306.2572 | 0.0001222 |
| California\_spiny\_lobster:California\_sheephead\_female | 0.0276604 | 1 | 310.7969 | 0.8680179 |
| California\_sheephead\_male:California\_sheephead\_female | 2.7731637 | 1 | 296.6145 | 0.0969123 |
| California\_spiny\_lobster:sunflower\_star | 2.1802472 | 1 | 317.1394 | 0.1407843 |
| California\_sheephead\_male:sunflower\_star | 4.8219627 | 1 | 312.9550 | 0.0288329 |
| California\_sheephead\_female:sunflower\_star | 0.9102583 | 1 | 315.5593 | 0.3407762 |
| California\_spiny\_lobster:giant\_spined\_sea\_star | 4.9223694 | 1 | 317.5144 | 0.0272180 |
| California\_sheephead\_male:giant\_spined\_sea\_star | 0.4759498 | 1 | 299.4404 | 0.4907970 |
| California\_sheephead\_female:giant\_spined\_sea\_star | 1.9709012 | 1 | 271.2301 | 0.1614962 |
| sunflower\_star:giant\_spined\_sea\_star | 0.7388153 | 1 | 317.2003 | 0.3906898 |
| white\_sea\_urchin:red\_sea\_urchin | 0.0154607 | 1 | 315.3450 | 0.9011244 |
| white\_sea\_urchin:purple\_sea\_urchin | 0.1765055 | 1 | 317.7864 | 0.6746777 |
| red\_sea\_urchin:purple\_sea\_urchin | 3.8882458 | 1 | 284.4131 | 0.0495940 |
| California\_spiny\_lobster:California\_sheephead\_male:California\_sheephead\_female | 23.3361041 | 1 | 314.5671 | 0.0000021 |
| California\_spiny\_lobster:California\_sheephead\_male:sunflower\_star | 0.4158572 | 1 | 317.9846 | 0.5194764 |
| California\_spiny\_lobster:California\_sheephead\_female:sunflower\_star | 0.1580364 | 1 | 317.9998 | 0.6912375 |
| California\_sheephead\_male:California\_sheephead\_female:sunflower\_star | 2.0111130 | 1 | 310.6385 | 0.1571531 |
| California\_spiny\_lobster:California\_sheephead\_male:giant\_spined\_sea\_star | 0.2443294 | 1 | 317.0981 | 0.6214388 |
| California\_spiny\_lobster:California\_sheephead\_female:giant\_spined\_sea\_star | 1.0247450 | 1 | 314.4949 | 0.3121743 |
| California\_sheephead\_male:California\_sheephead\_female:giant\_spined\_sea\_star | 0.2071230 | 1 | 314.2920 | 0.6493460 |
| California\_spiny\_lobster:sunflower\_star:giant\_spined\_sea\_star | 0.0005856 | 1 | 314.6110 | 0.9807089 |
| California\_sheephead\_male:sunflower\_star:giant\_spined\_sea\_star | 0.0420834 | 1 | 317.5893 | 0.8375923 |
| California\_sheephead\_female:sunflower\_star:giant\_spined\_sea\_star | 0.2654321 | 1 | 317.9832 | 0.6067705 |
| white\_sea\_urchin:red\_sea\_urchin:purple\_sea\_urchin | 1.8900052 | 1 | 310.7675 | 0.1701918 |
| California\_spiny\_lobster:California\_sheephead\_male:California\_sheephead\_female:sunflower\_star | 0.0521243 | 1 | 312.9593 | 0.8195563 |
| California\_spiny\_lobster:California\_sheephead\_male:California\_sheephead\_female:giant\_spined\_sea\_star | 2.7365384 | 1 | 317.9181 | 0.0990639 |
| California\_spiny\_lobster:California\_sheephead\_male:sunflower\_star:giant\_spined\_sea\_star | 0.1551270 | 1 | 315.3517 | 0.6939493 |
| California\_spiny\_lobster:California\_sheephead\_female:sunflower\_star:giant\_spined\_sea\_star | 0.1809056 | 1 | 315.2517 | 0.6708863 |
| California\_sheephead\_male:California\_sheephead\_female:sunflower\_star:giant\_spined\_sea\_star | 0.3580611 | 1 | 317.0210 | 0.5500123 |
| California\_spiny\_lobster:California\_sheephead\_male:California\_sheephead\_female:sunflower\_star:giant\_spined\_sea\_star | 0.0140238 | 1 | 317.6953 | 0.9058081 |

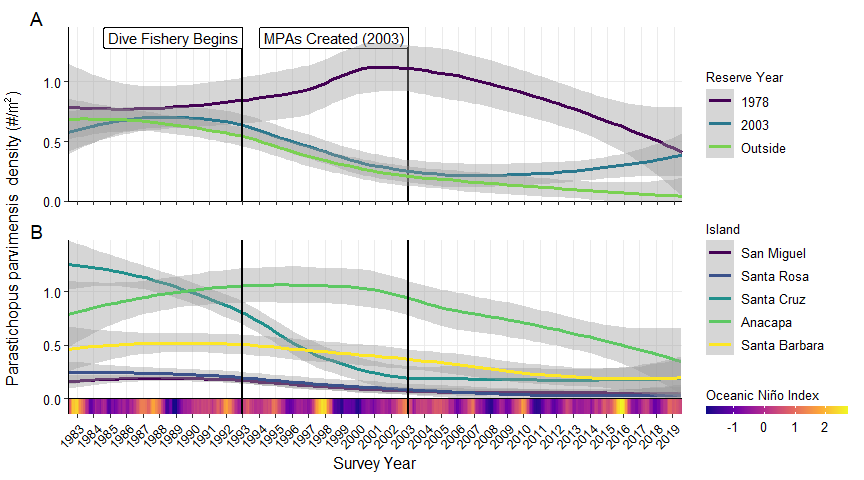
## Ind Spe Ana



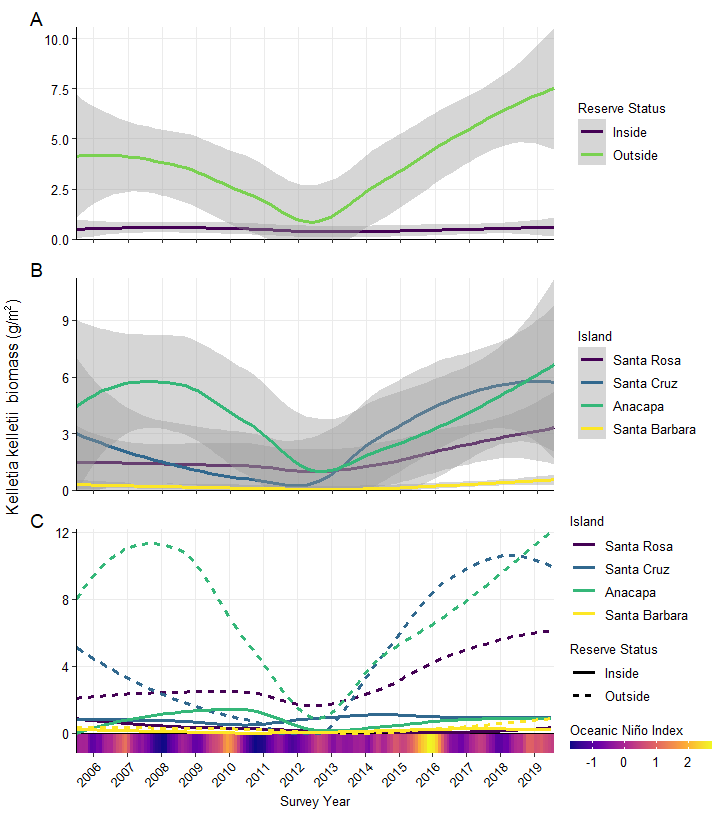


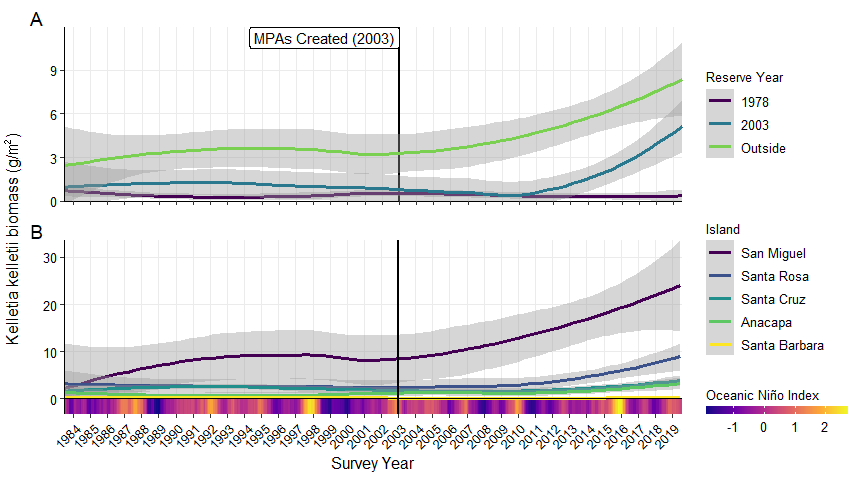
## Par Par



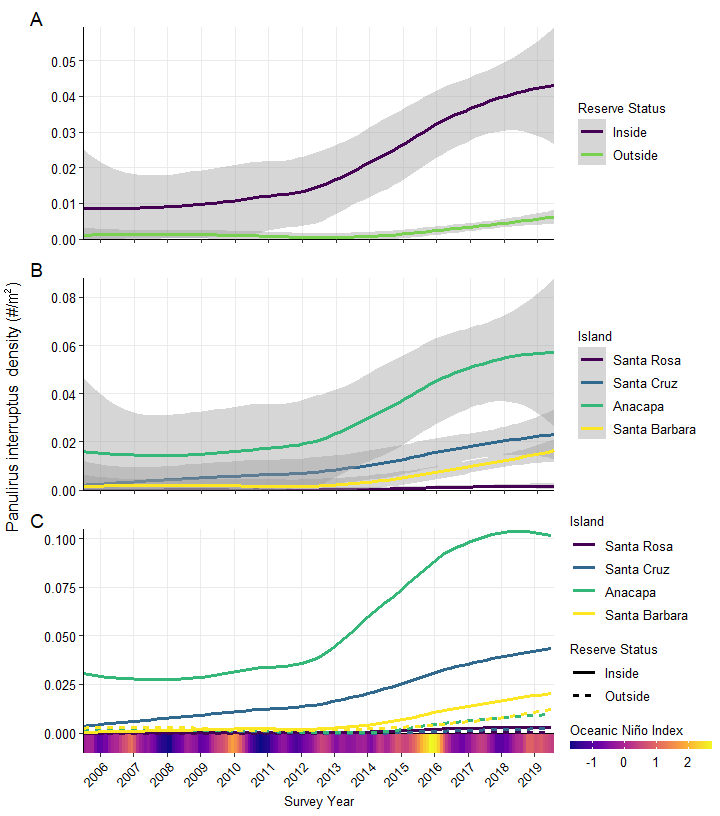


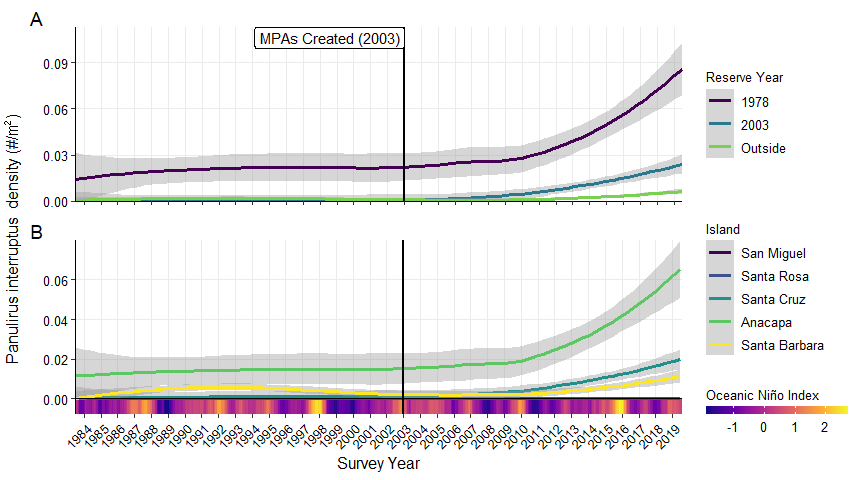
## Kel Kel



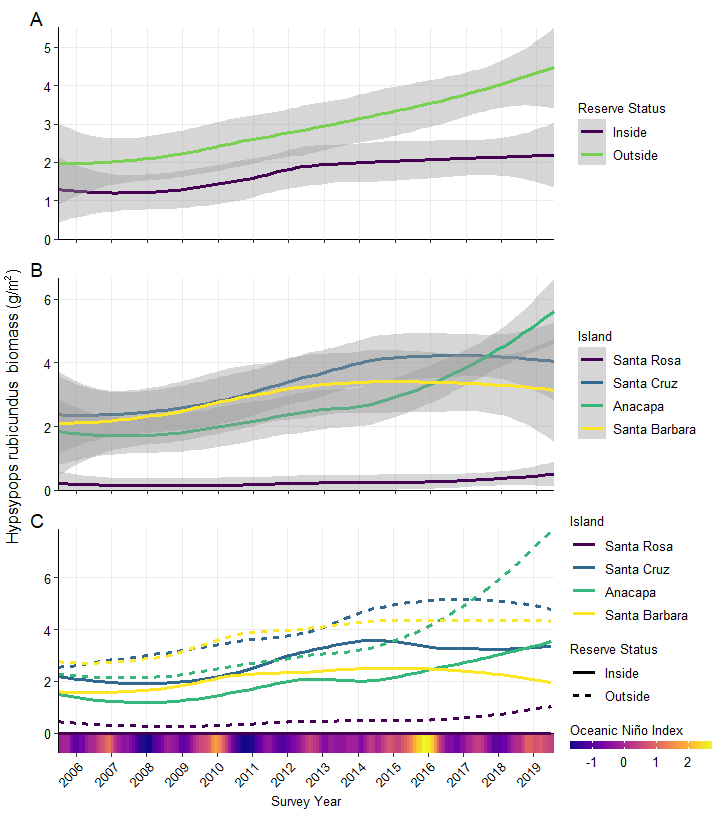


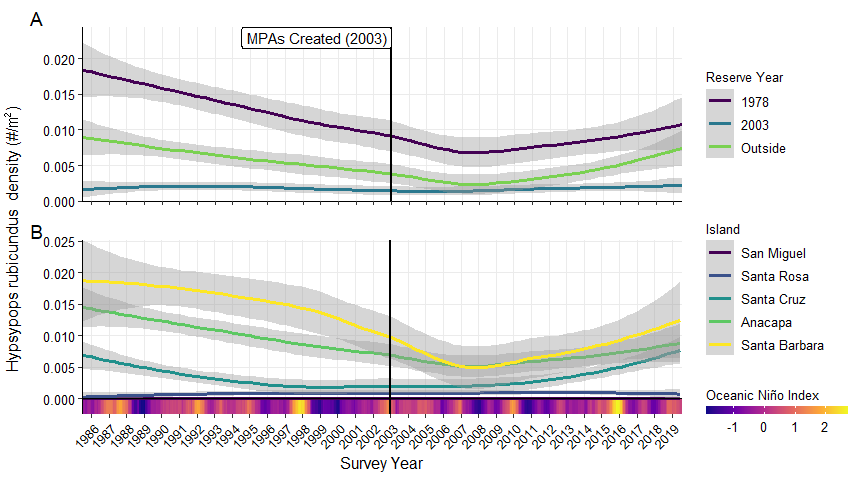
## Pan Int



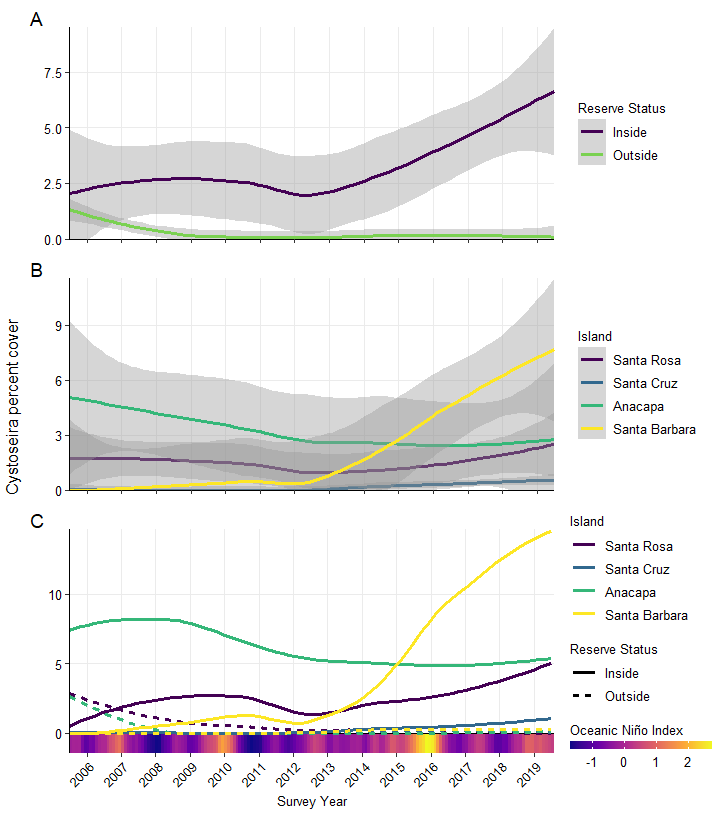


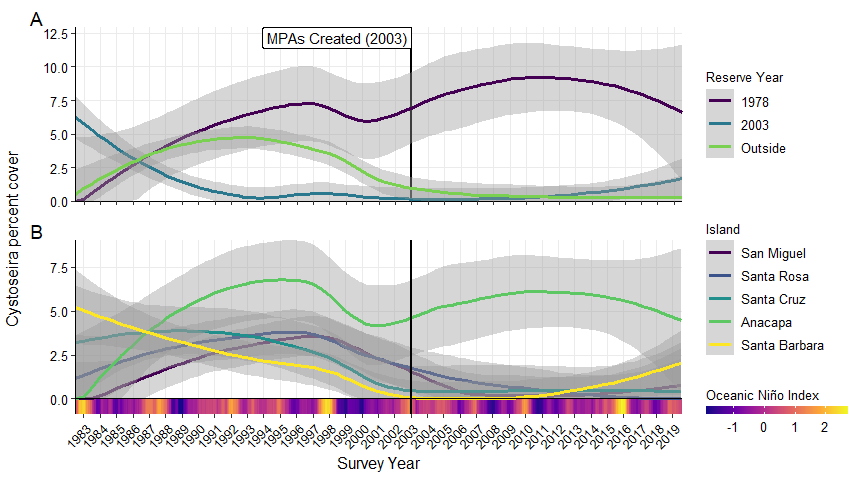
## Hyp Rub



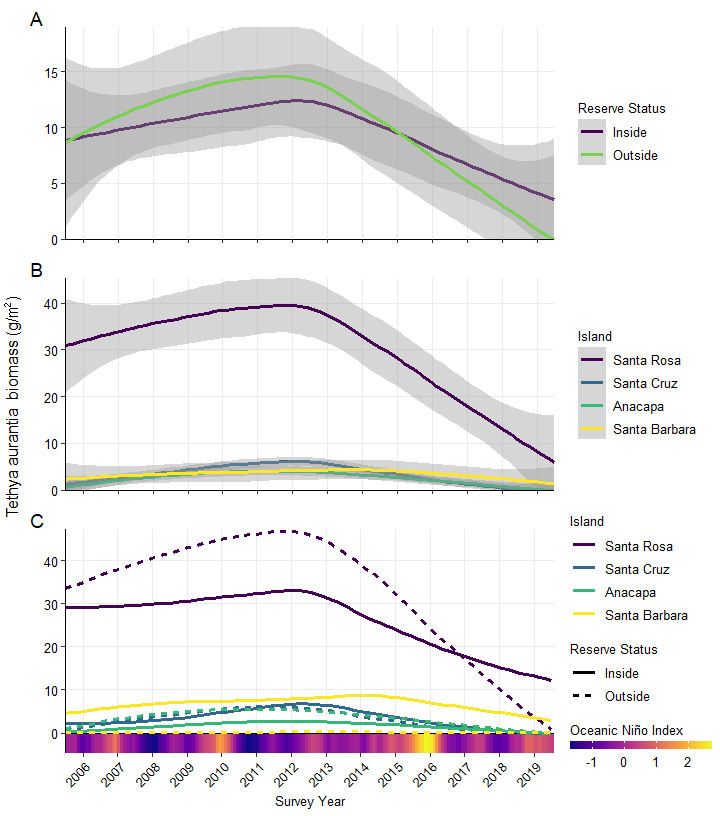


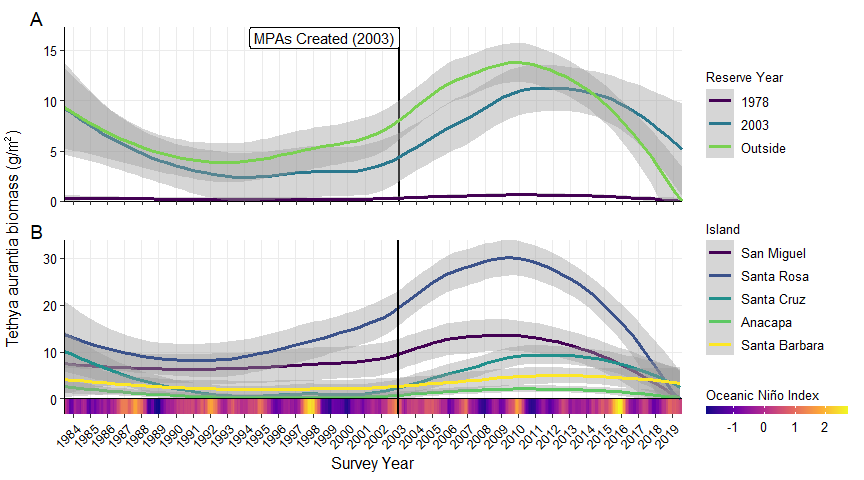
## Cys Osm



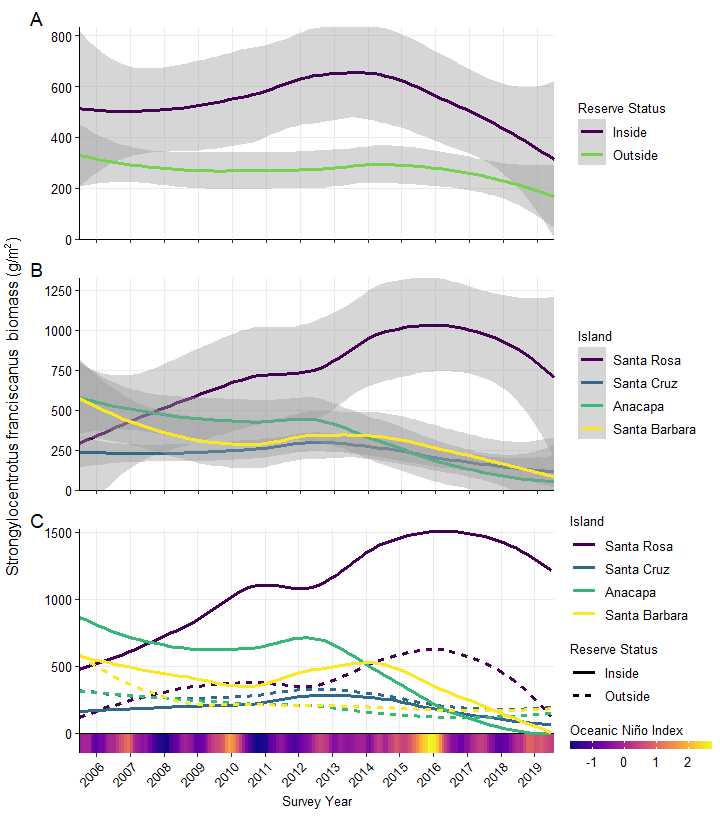


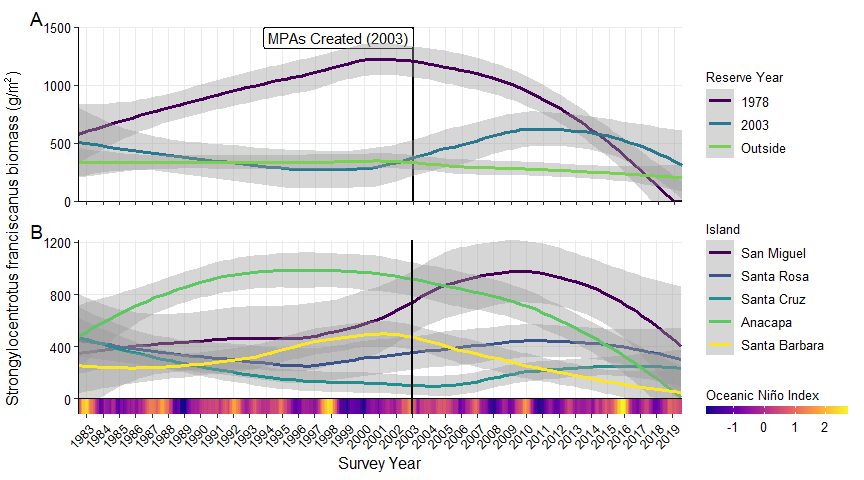
## Tet Aur



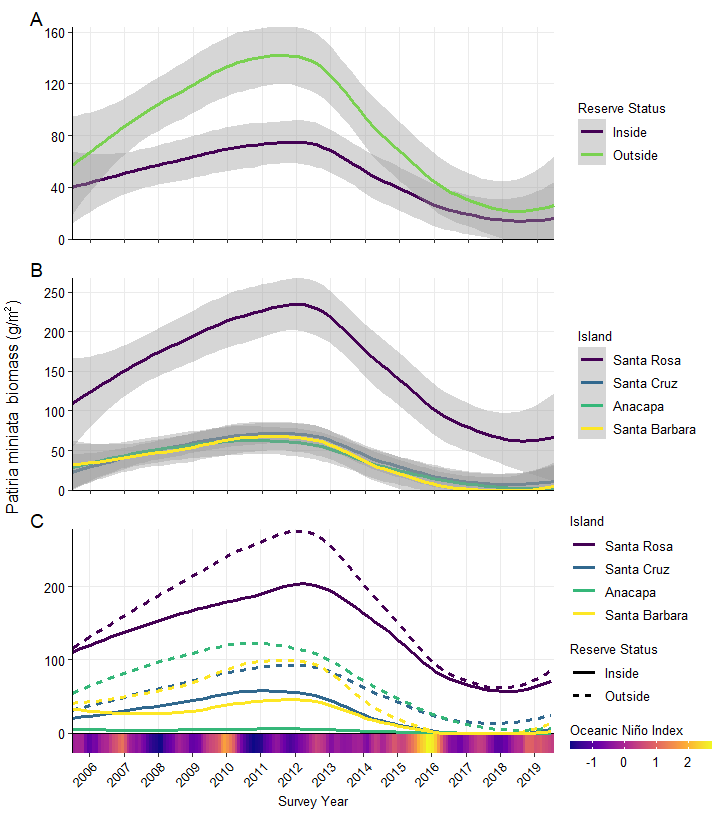


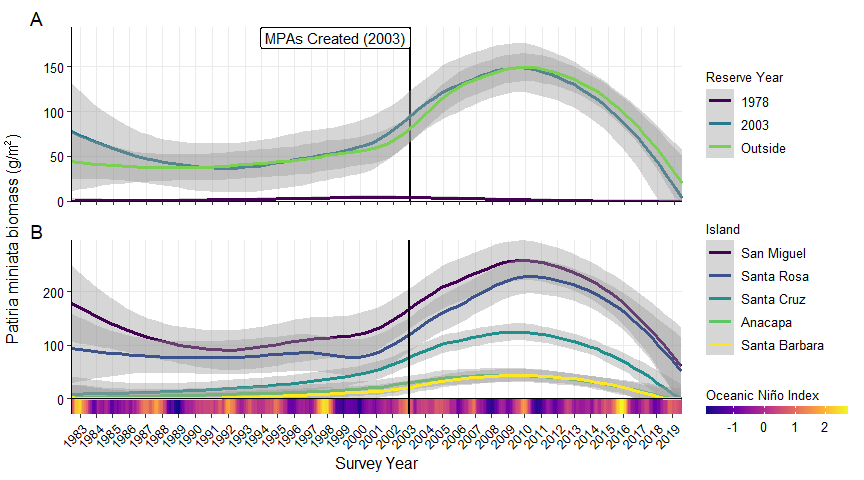
## Str Fra



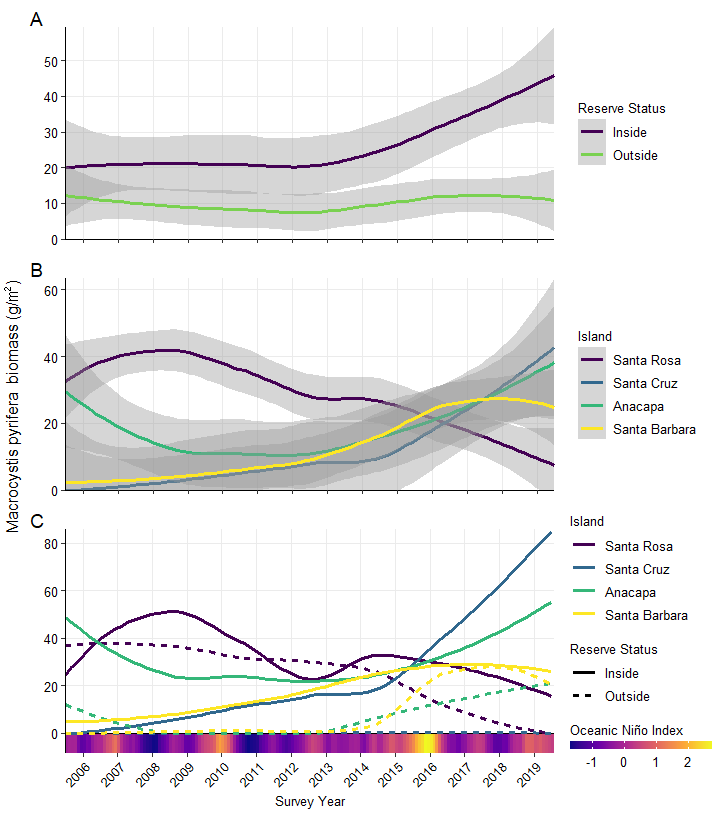


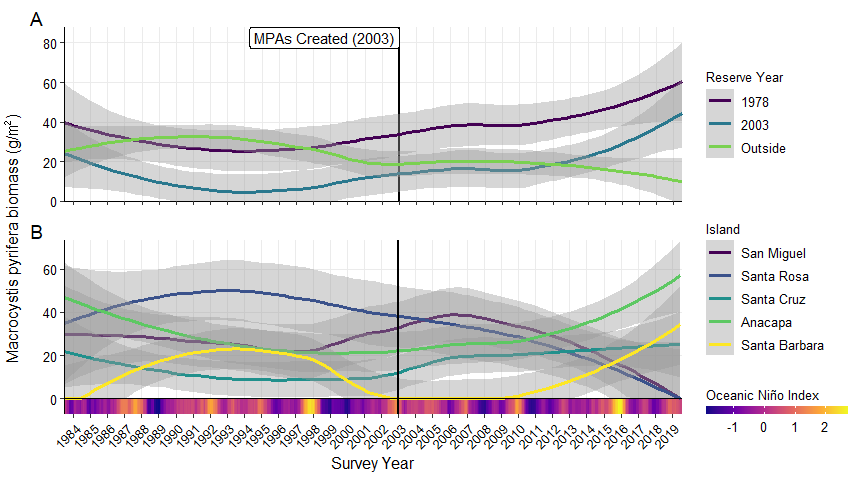
## Pat Min



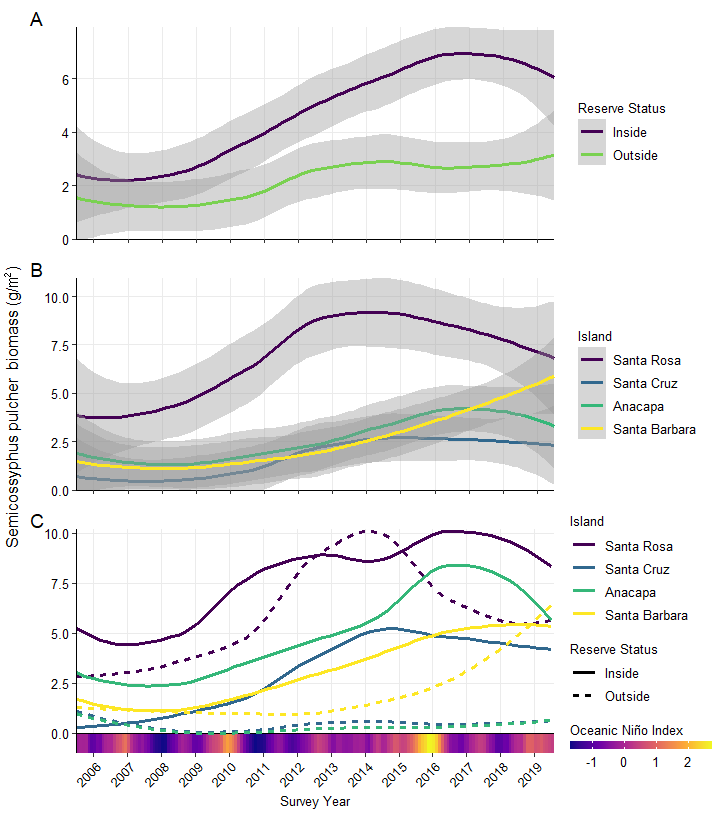


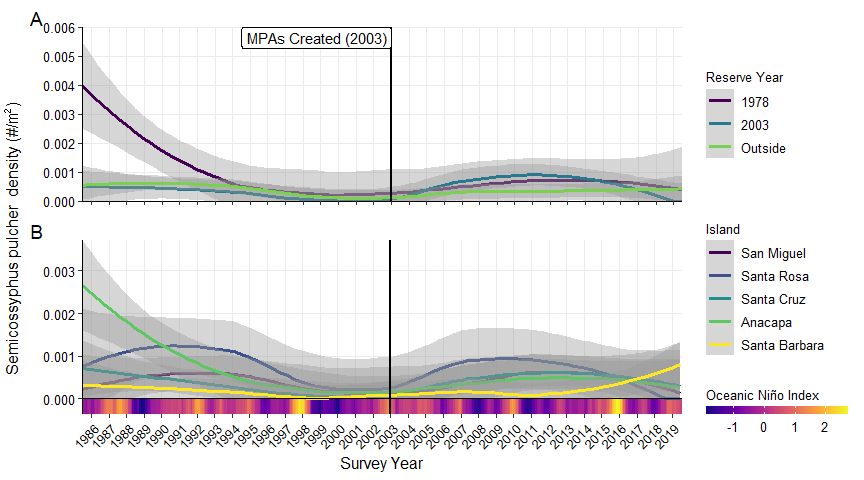
## Mac Pyr



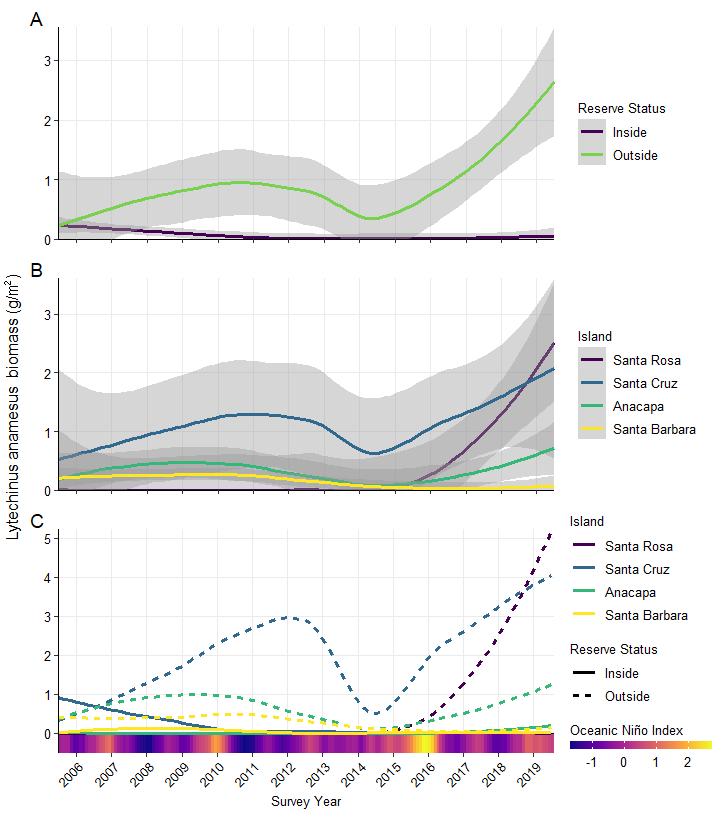


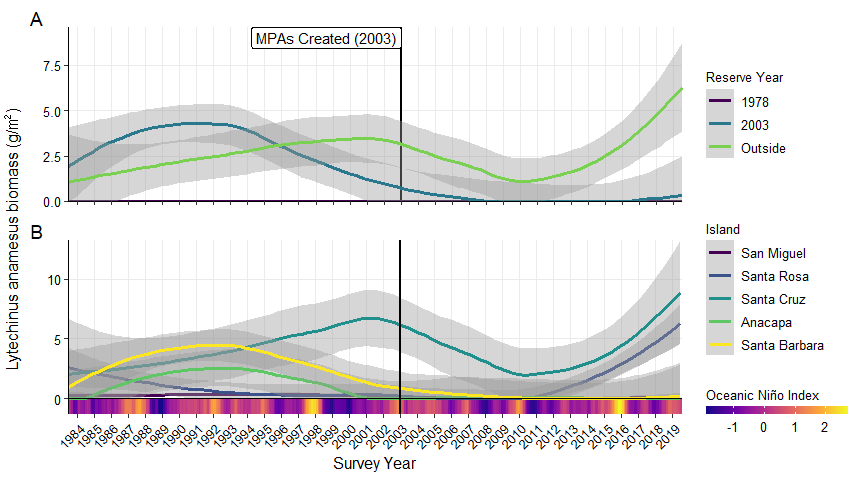
## Sem Pul



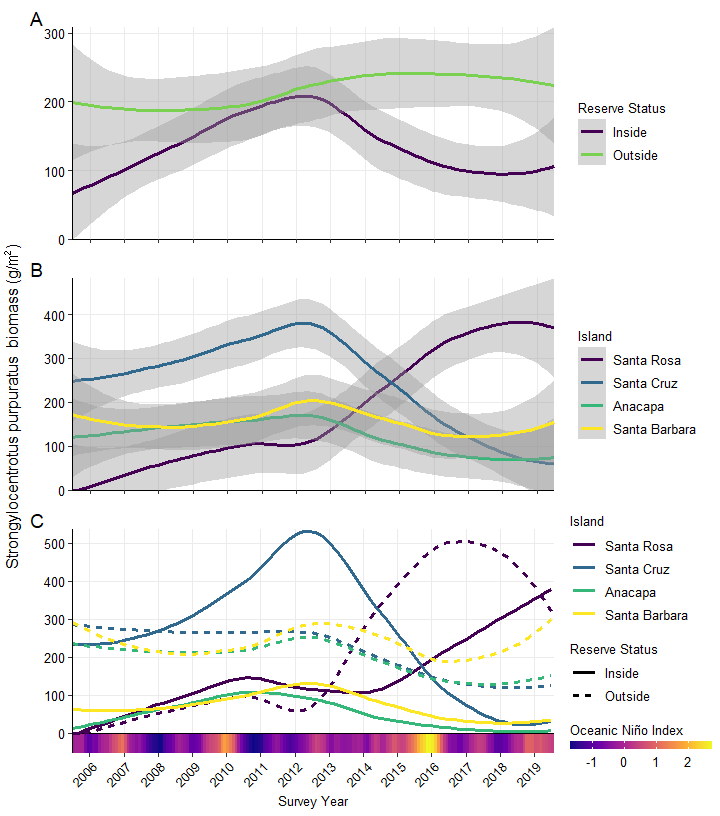


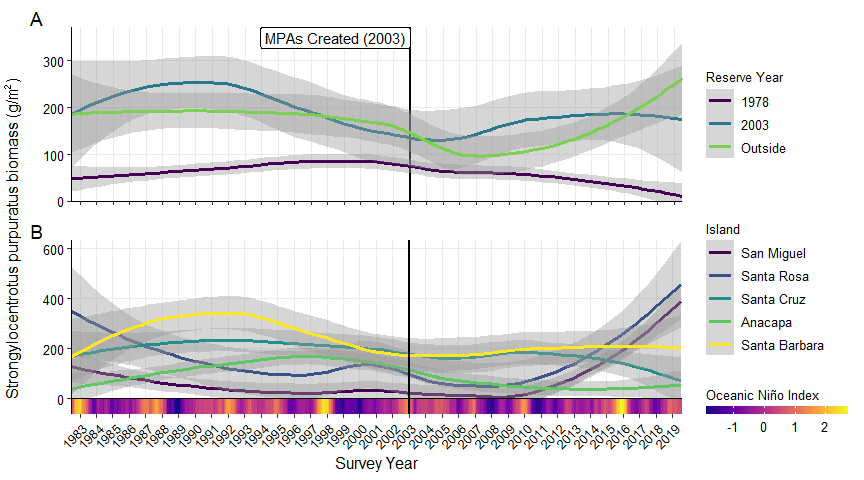
## Lyt Ana



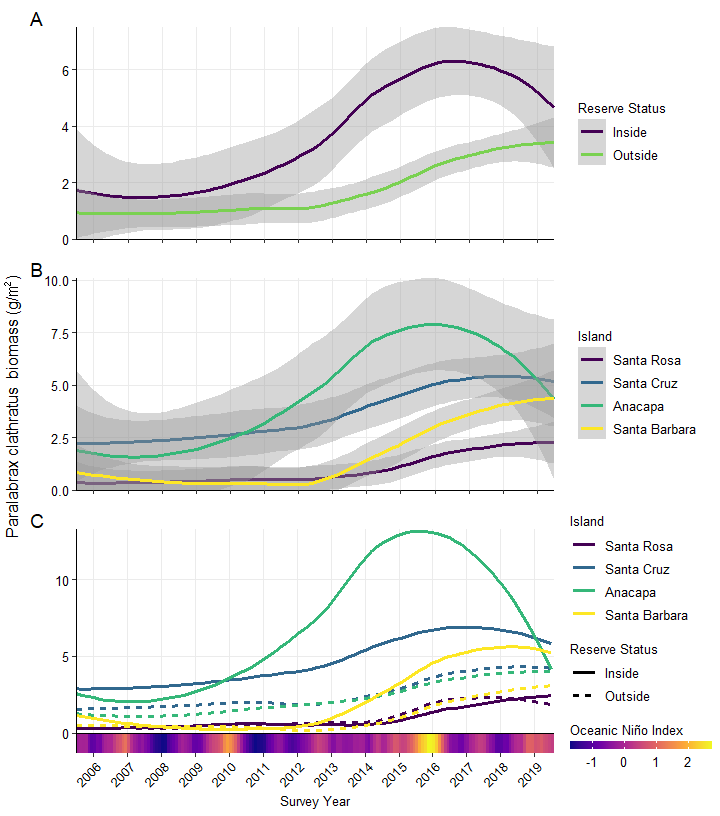


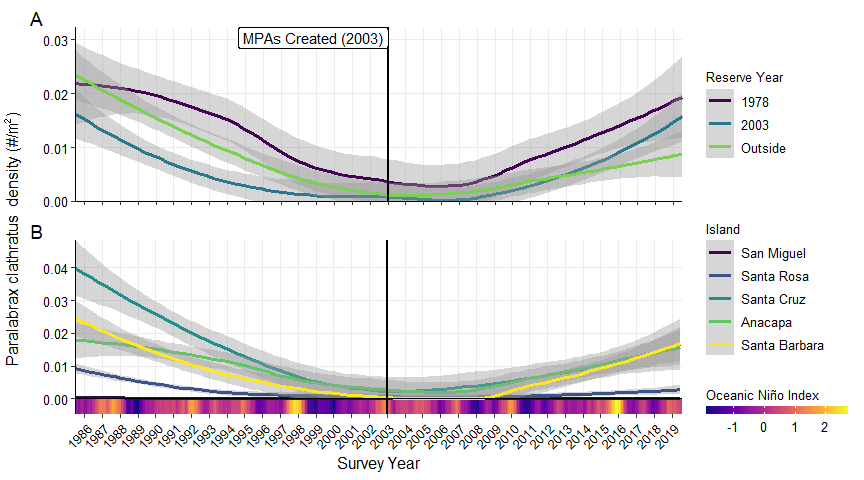
## Str Pur



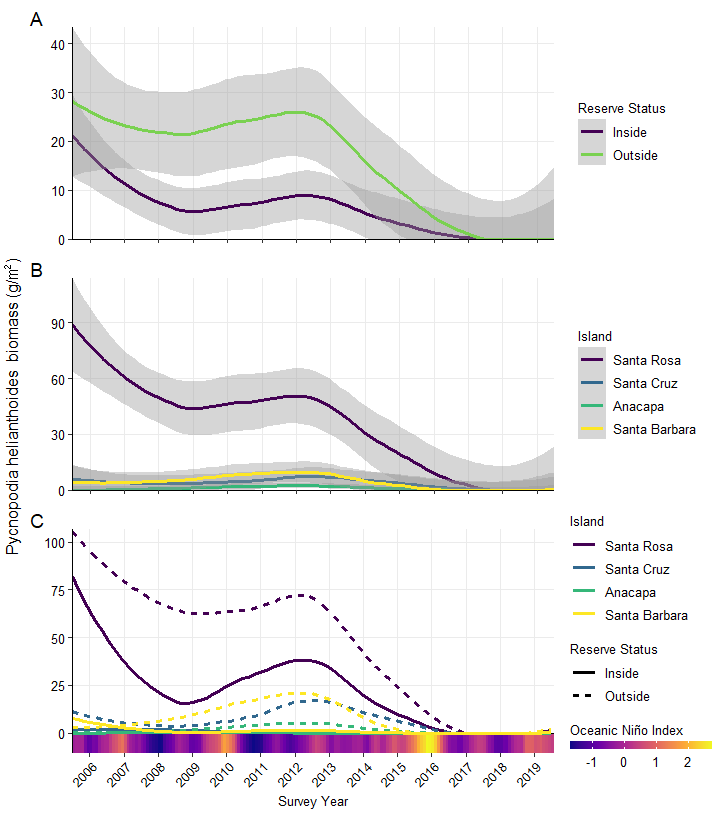


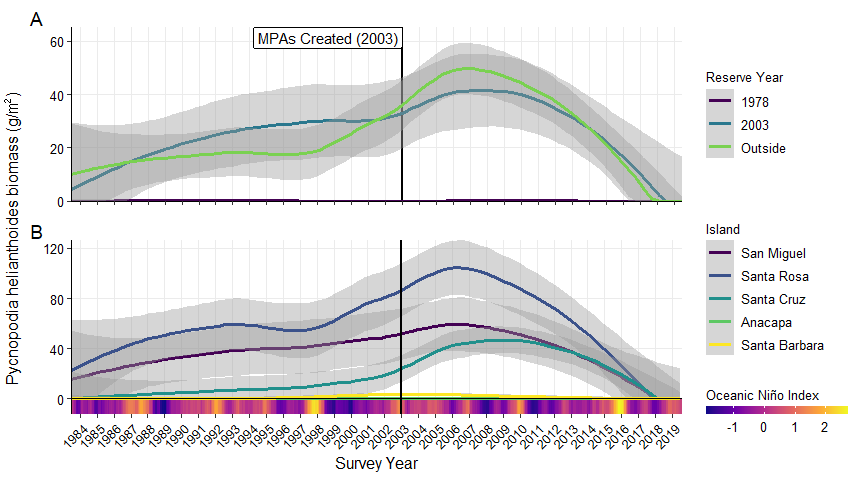
## Par Cla





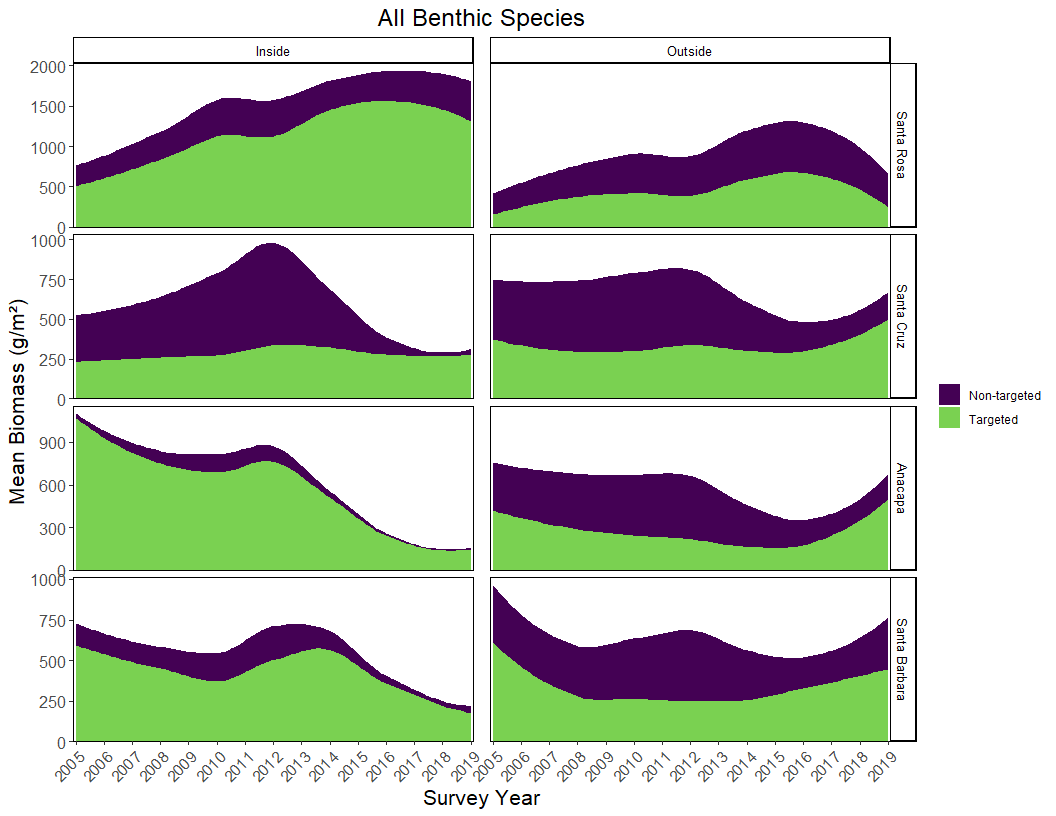
## Pyc Hel

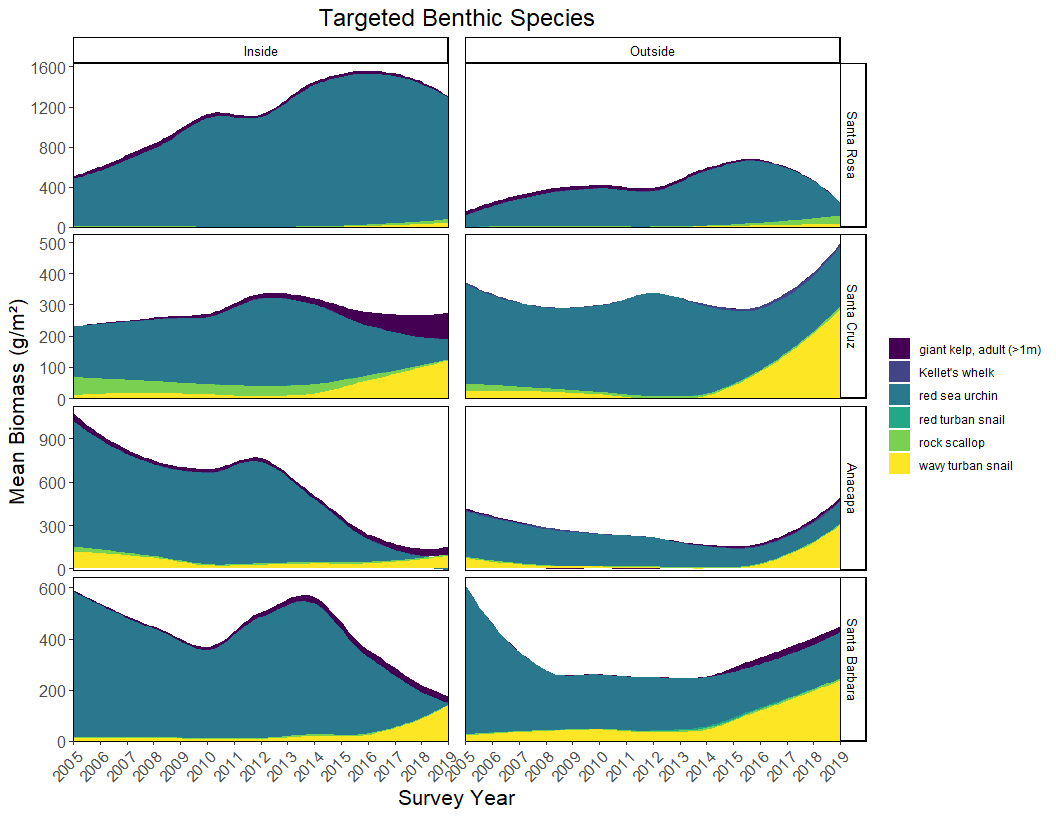


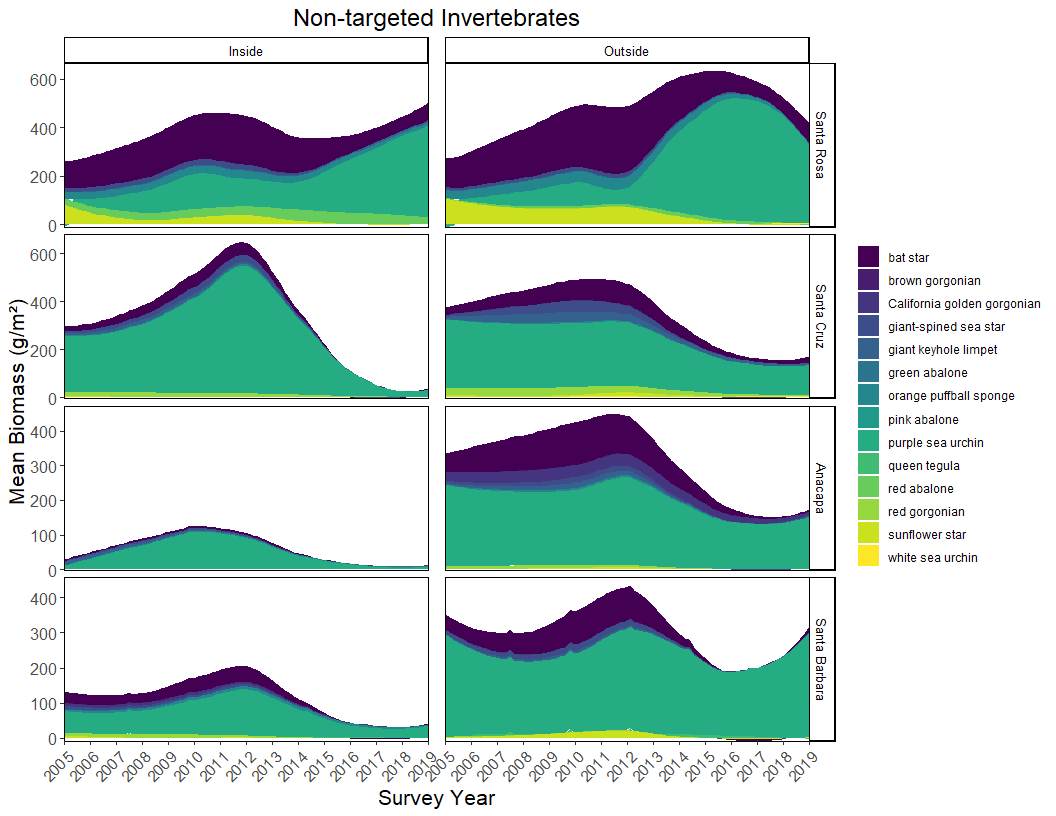


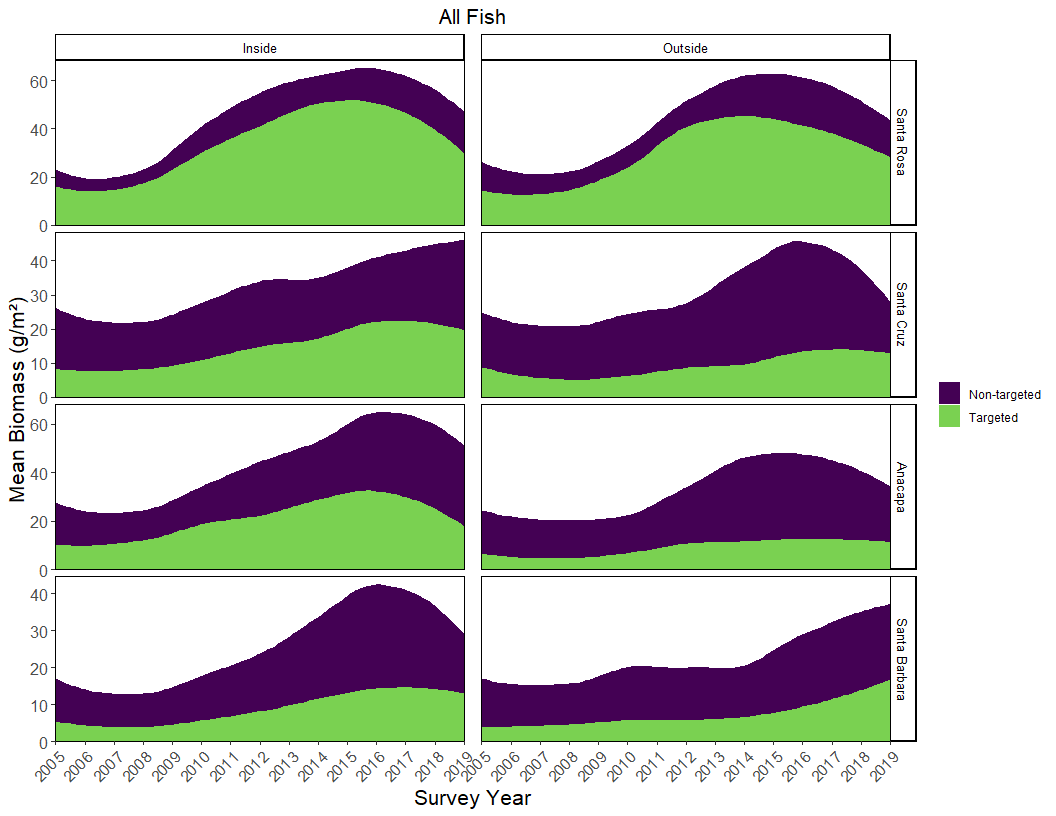
ADD MORE SPECIES?

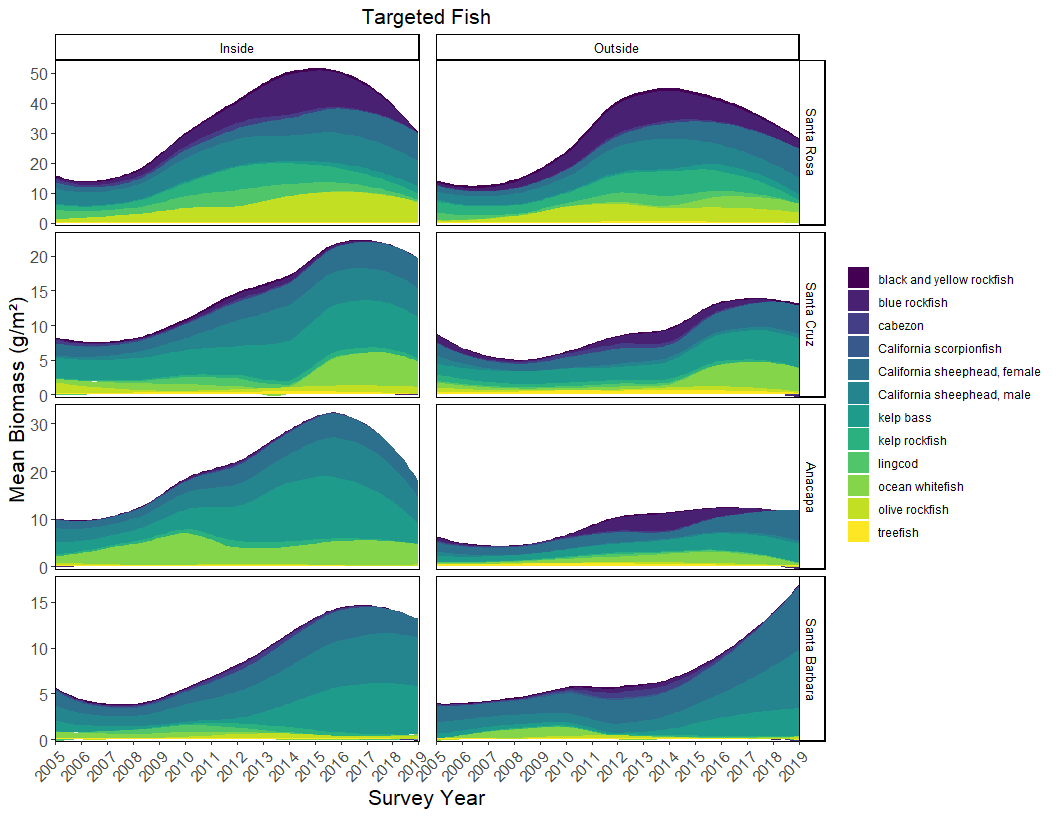
## Bio Sum

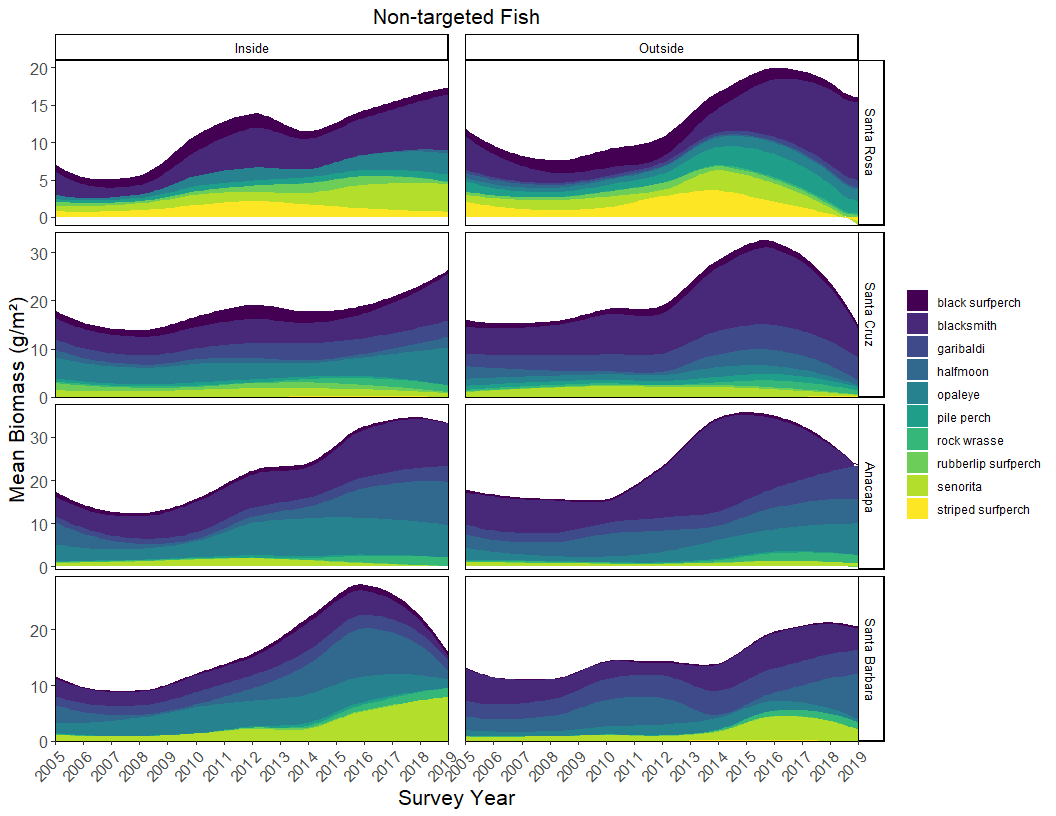




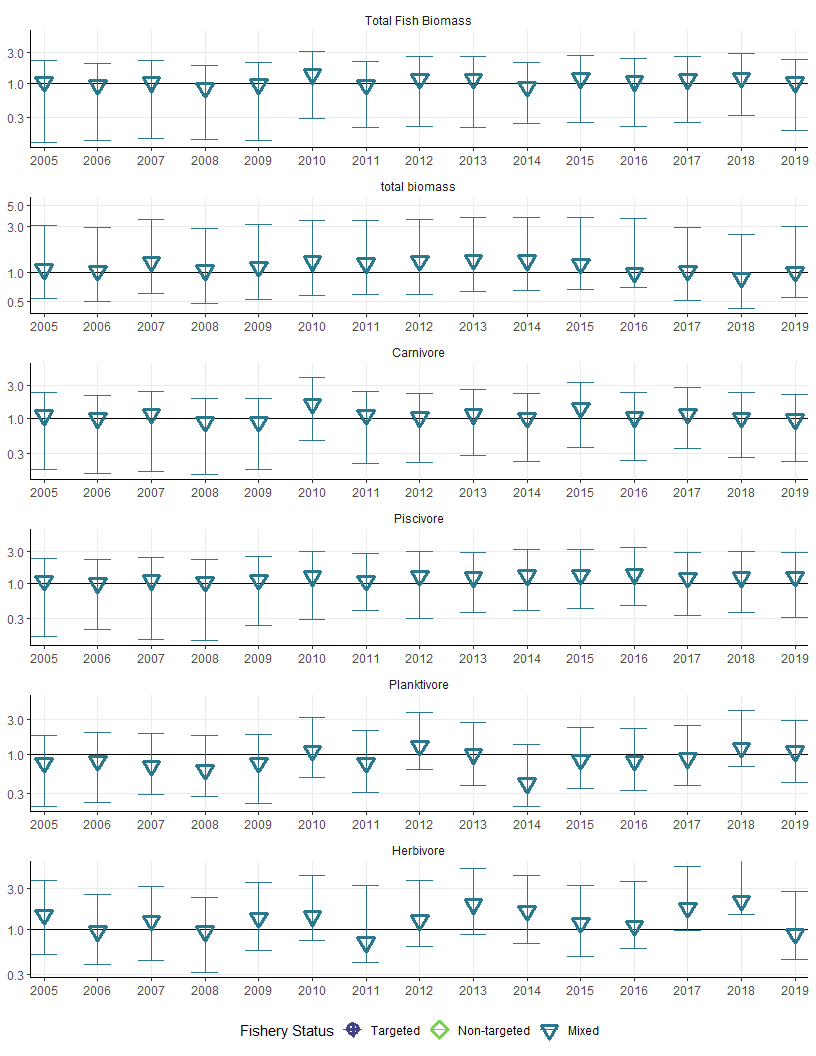
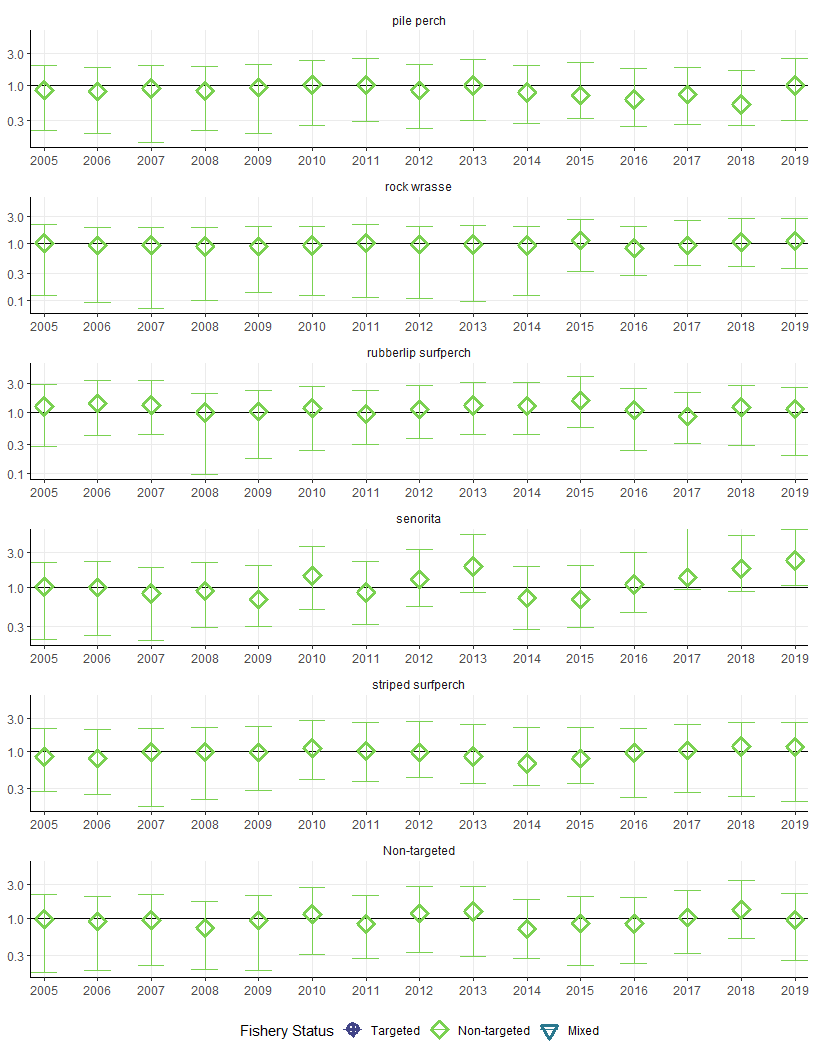
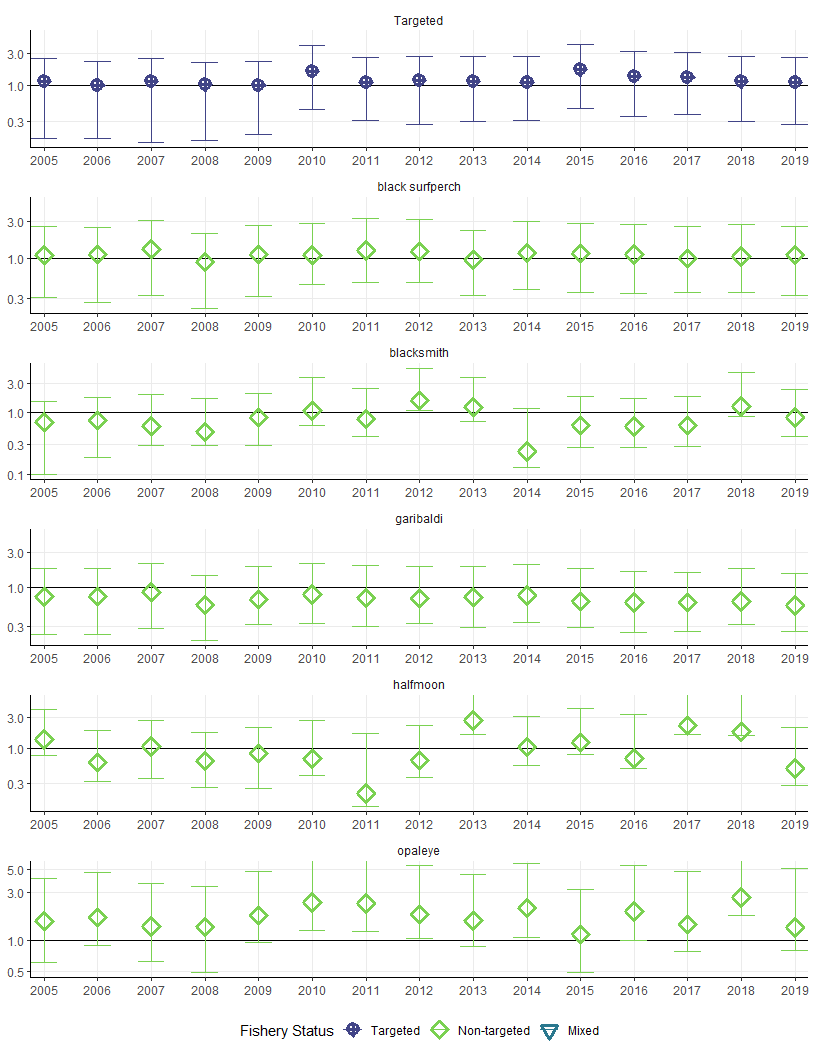
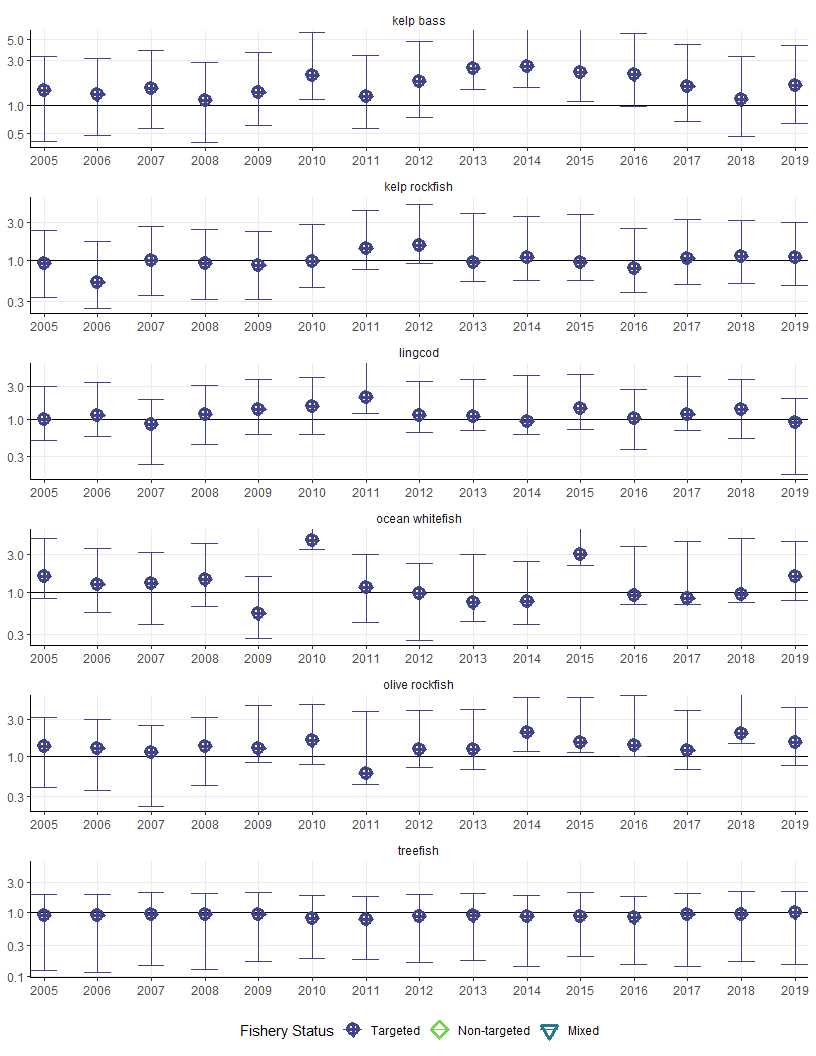
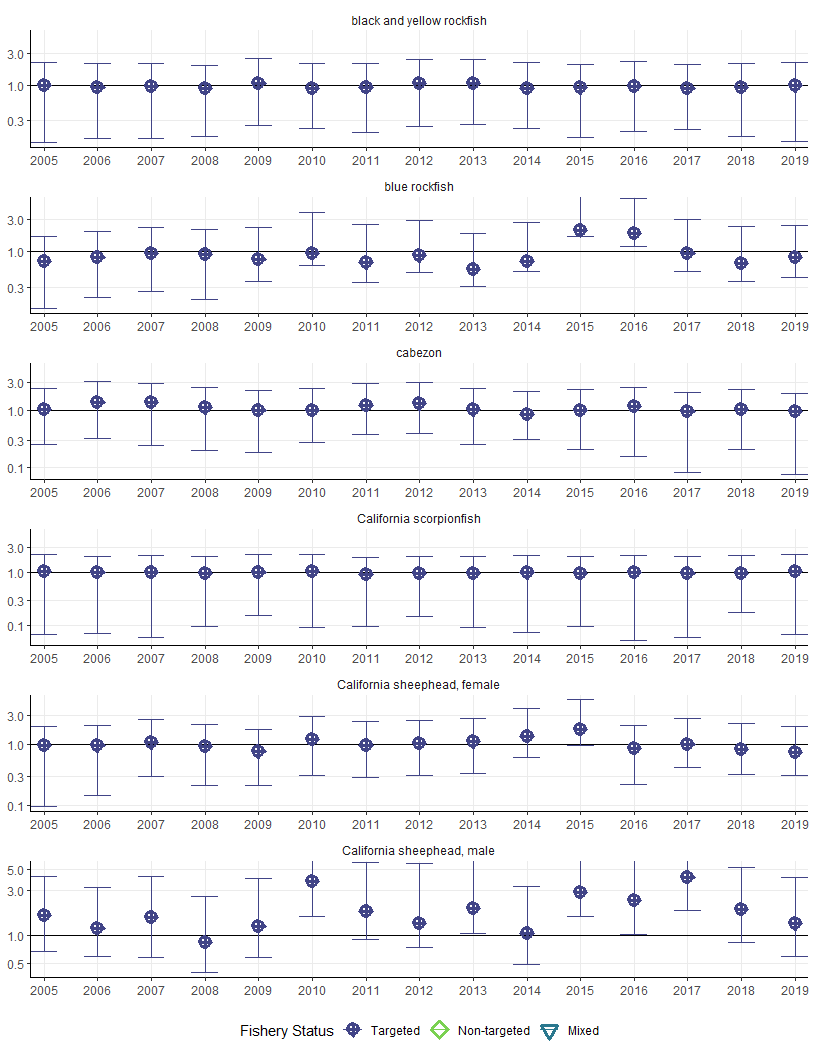




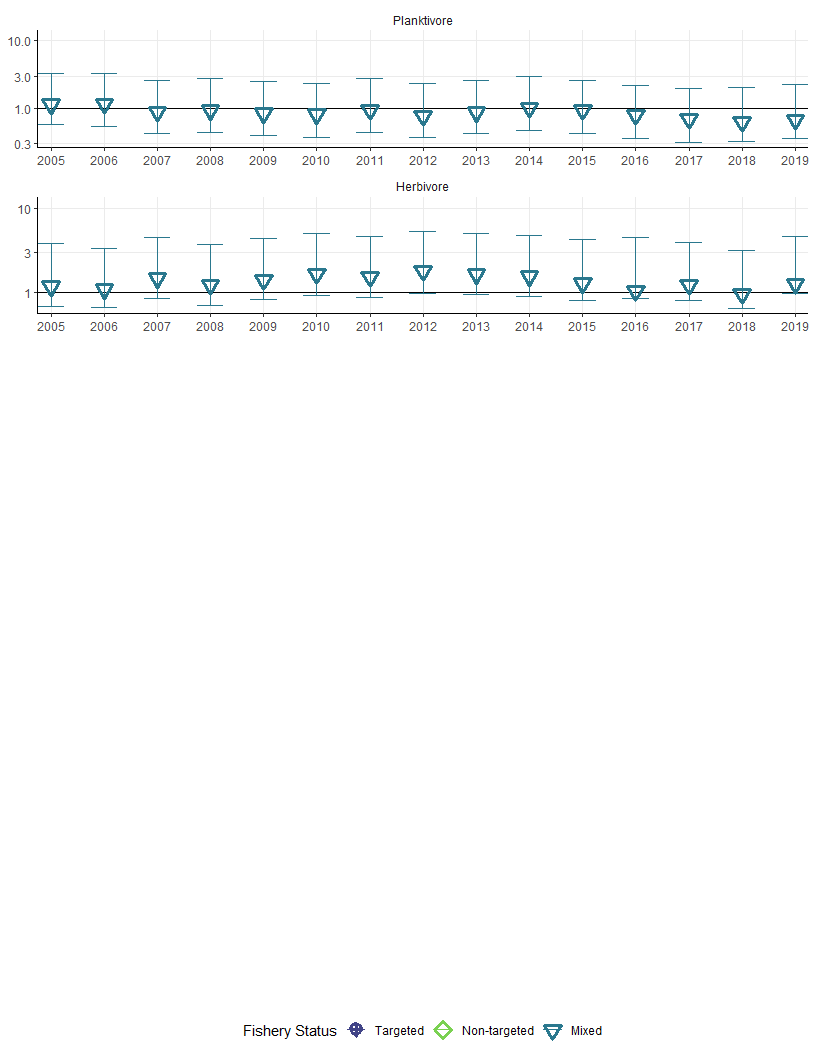
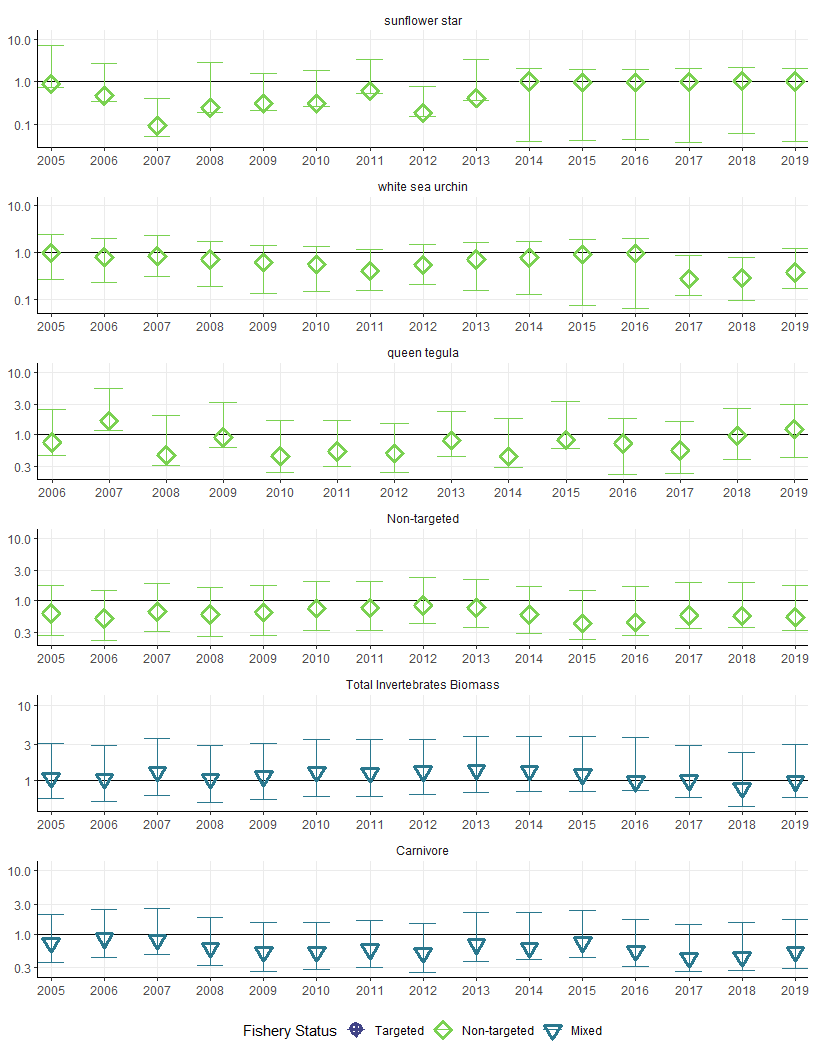
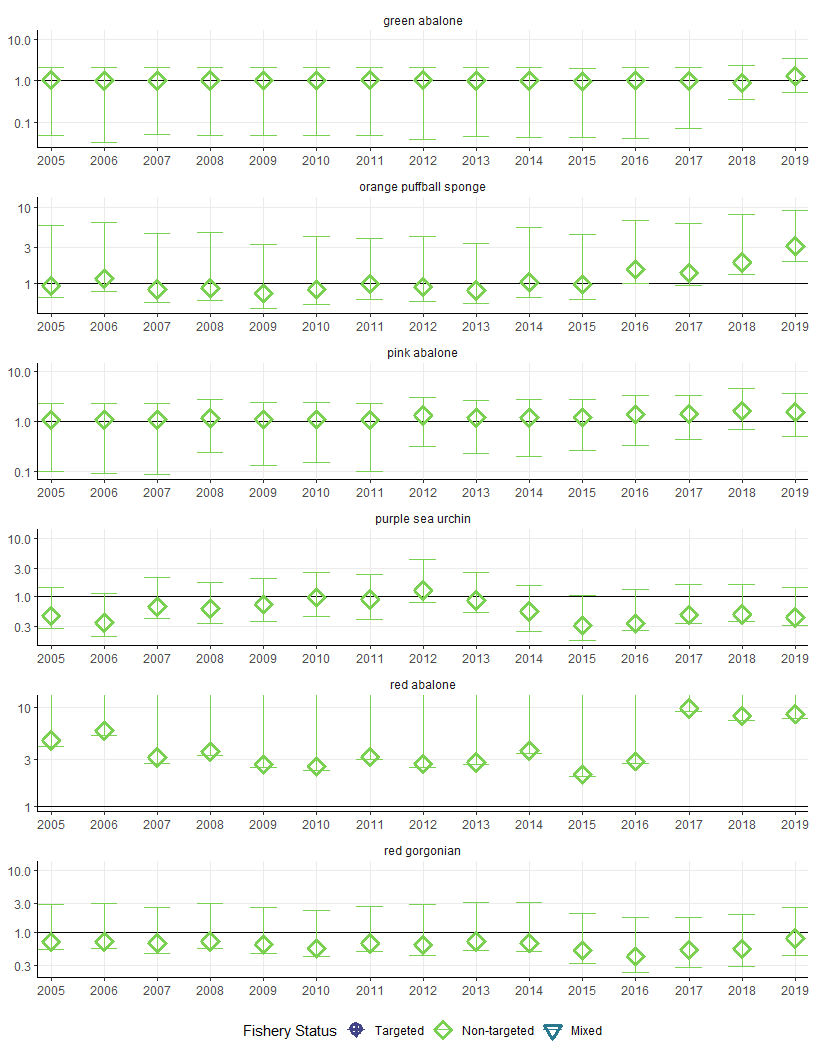
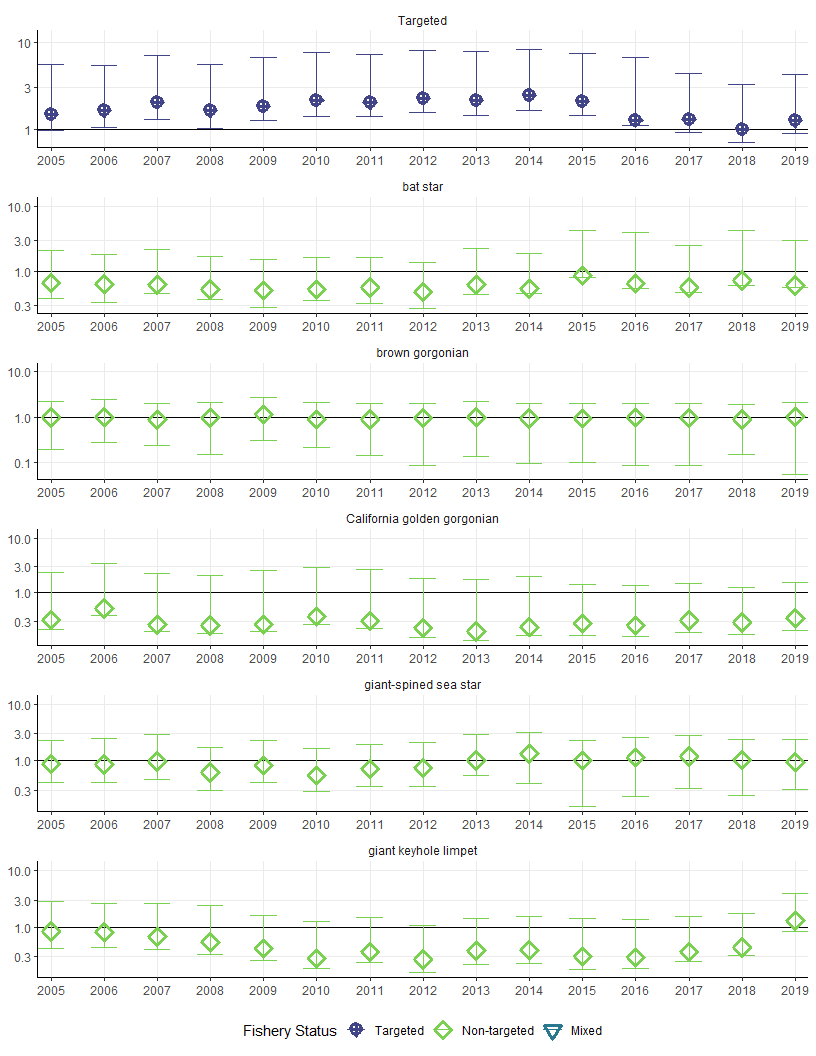
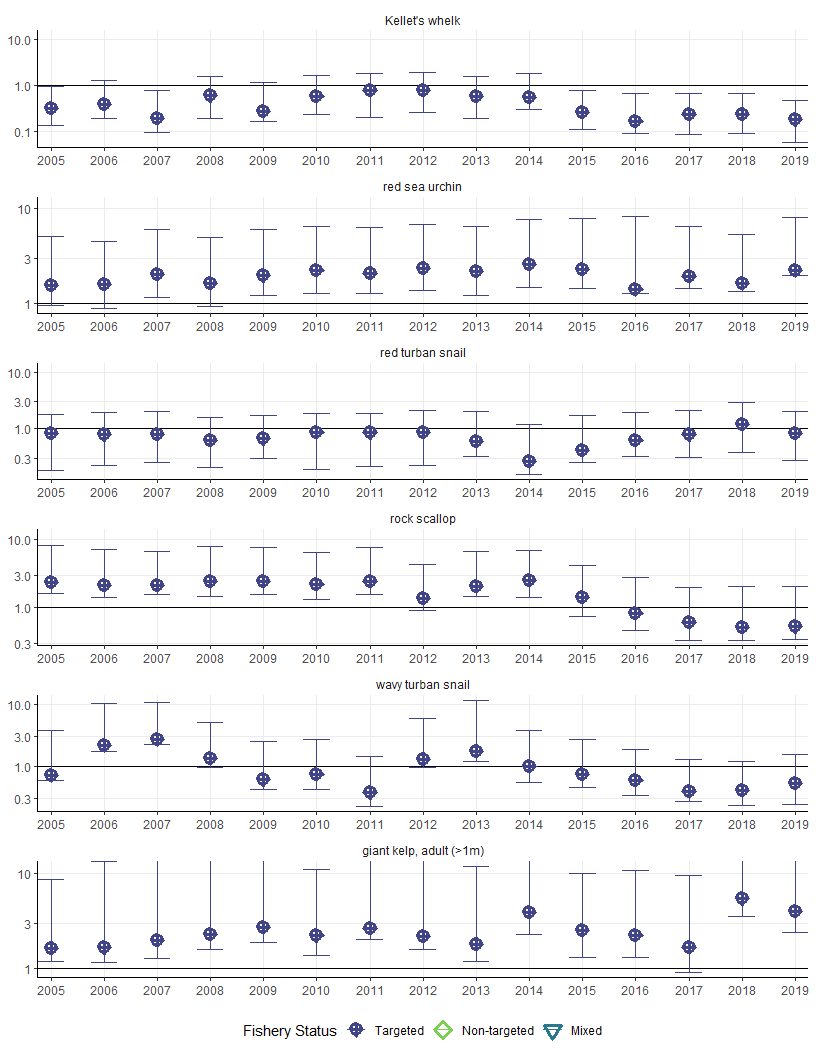




## Ratio - Fish



## Ratio - Benthic



## Pis Gig

## Cen Cor

## Hal Ruf

## Tables and Equations