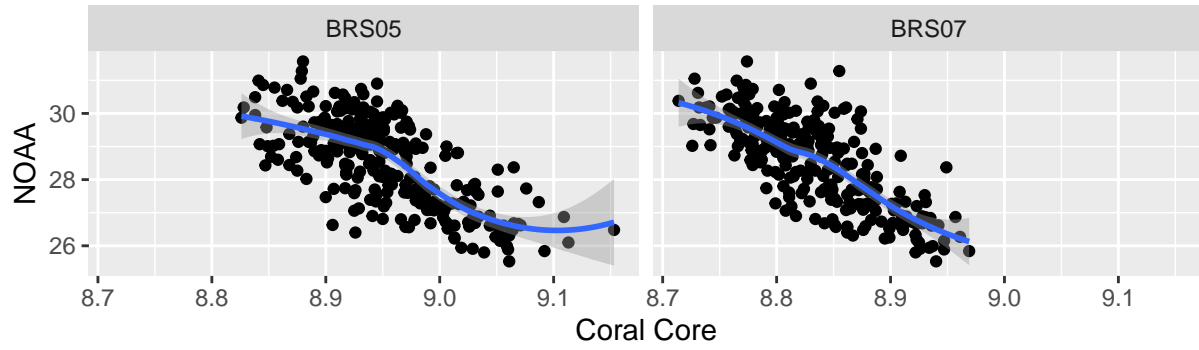


Coral Core Calibration and Frequency Analysis

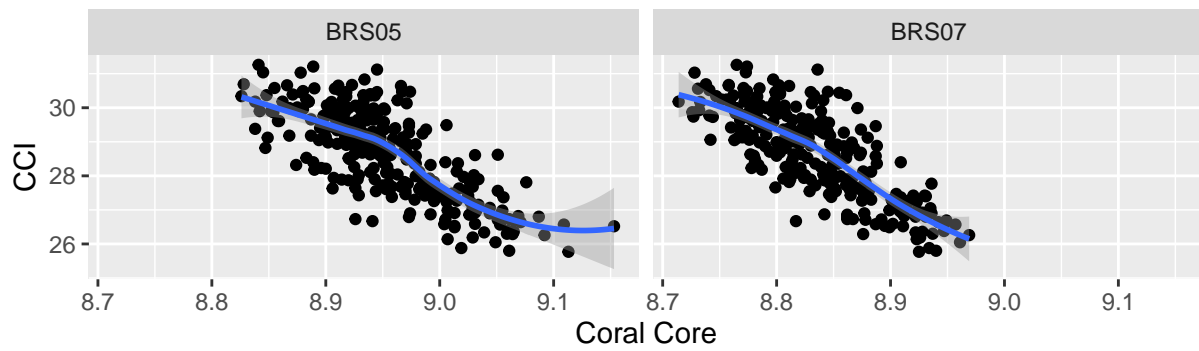
Vanessa Hui Fen Neo

2021-10-19

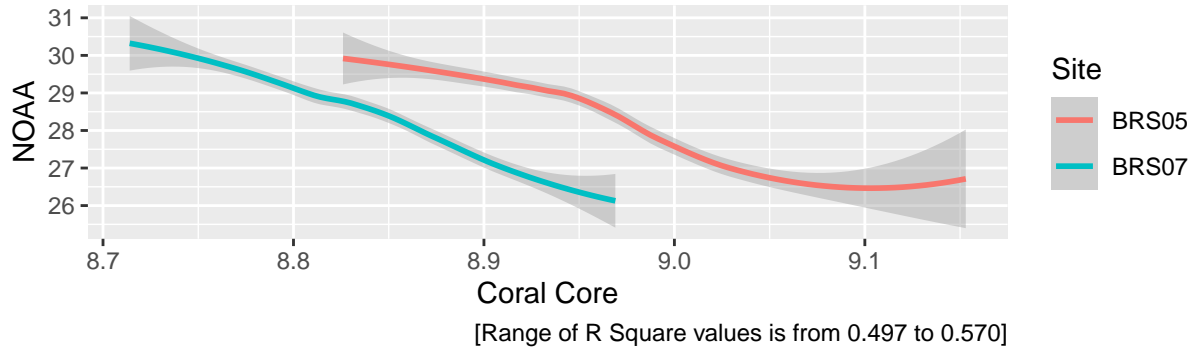
Browse Island NOAA SST and Coral Core Proxy



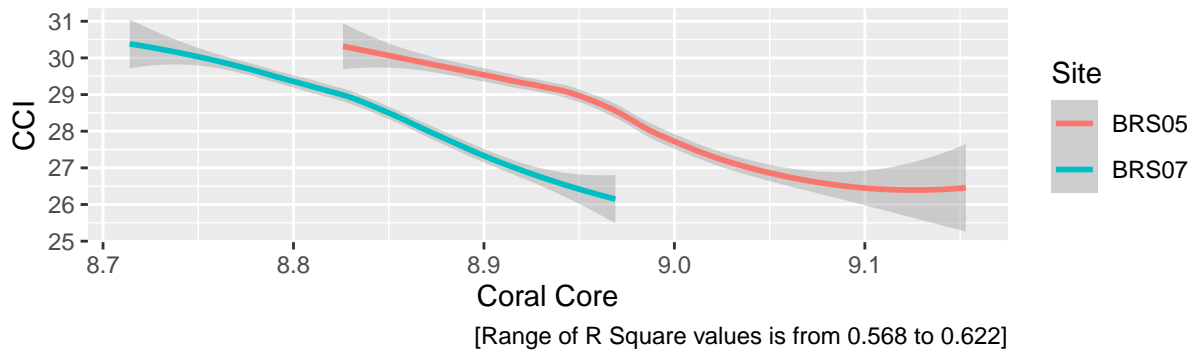
Browse Island CCI SST and Coral Core Proxy



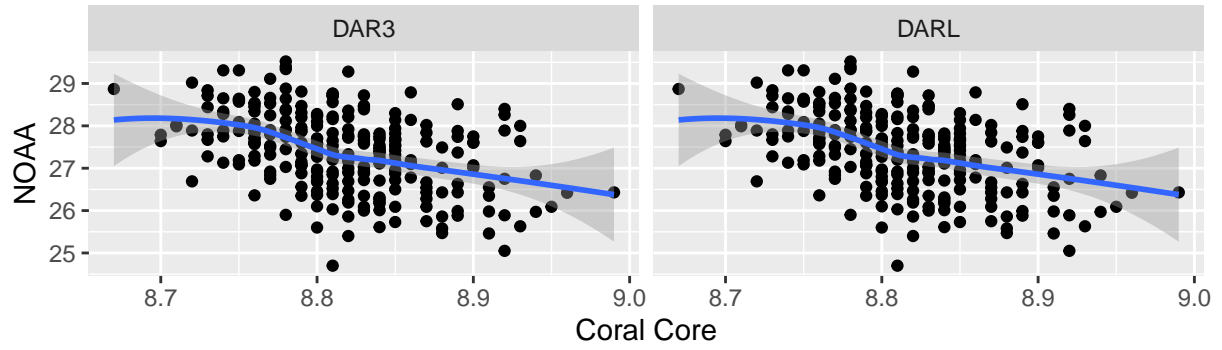
Browse Island NOAA SST and Coral Core Proxy



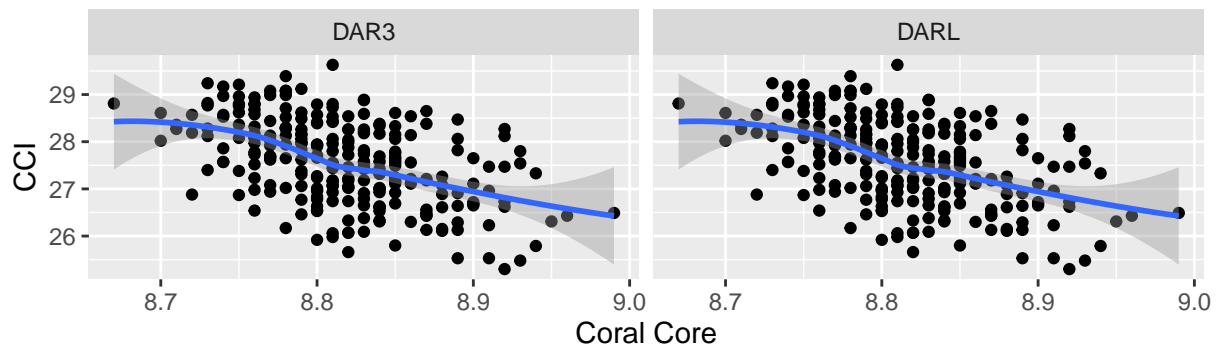
Browse Island CCI SST and Coral Core Proxy

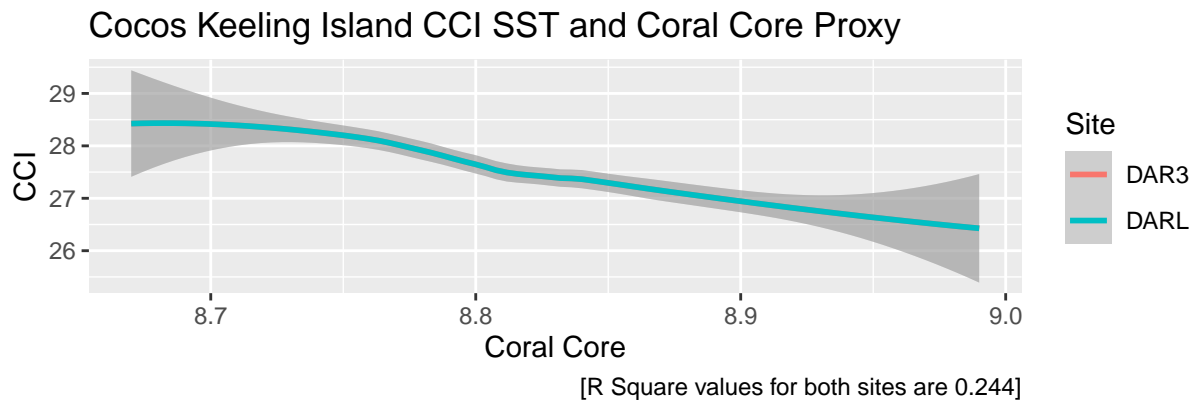
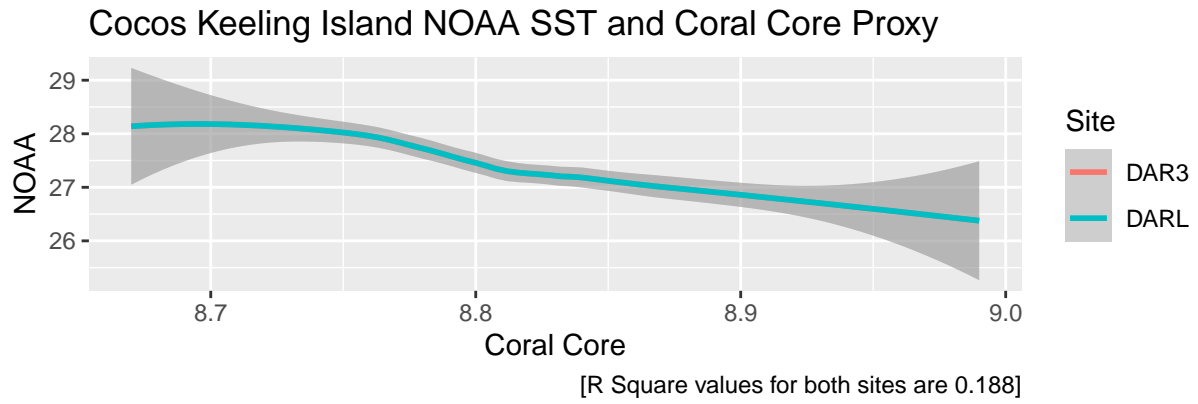


Cocos Keeling Island NOAA SST and Coral Core Proxy

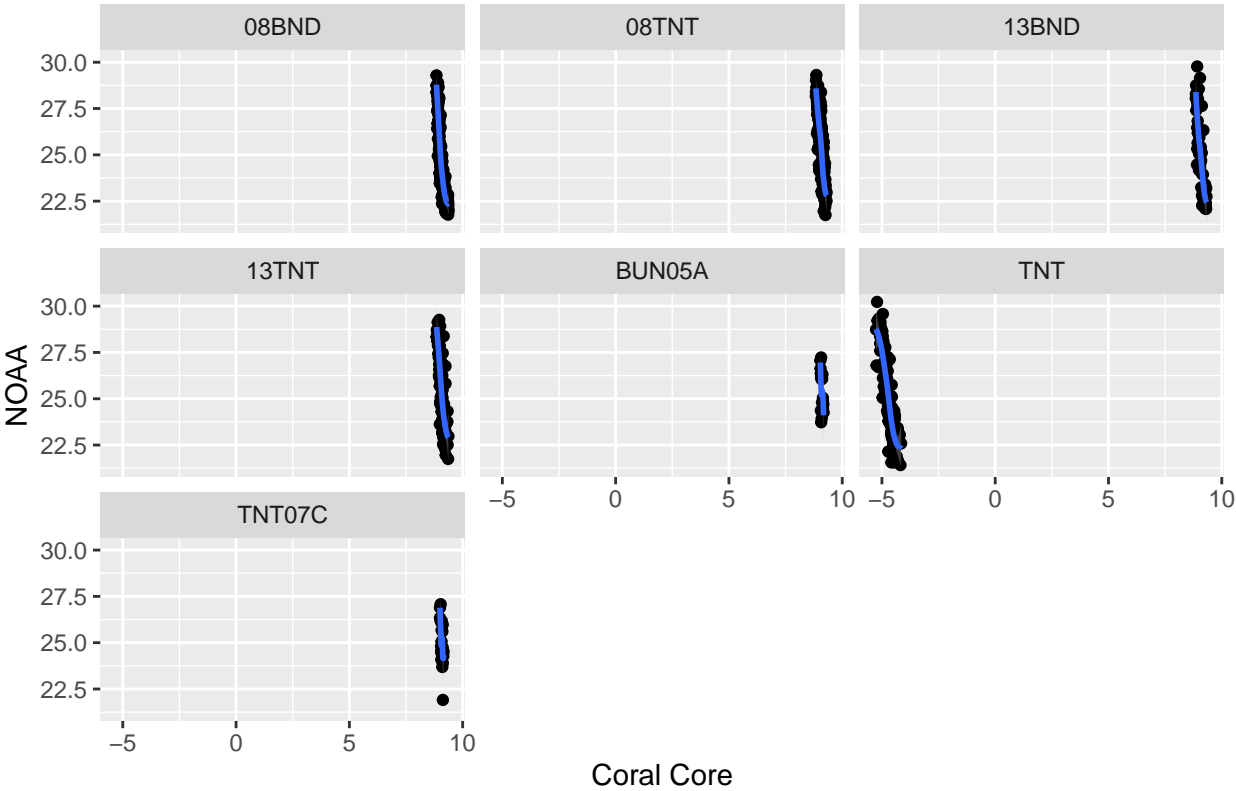


Cocos Keeling Island CCI SST and Coral Core Proxy

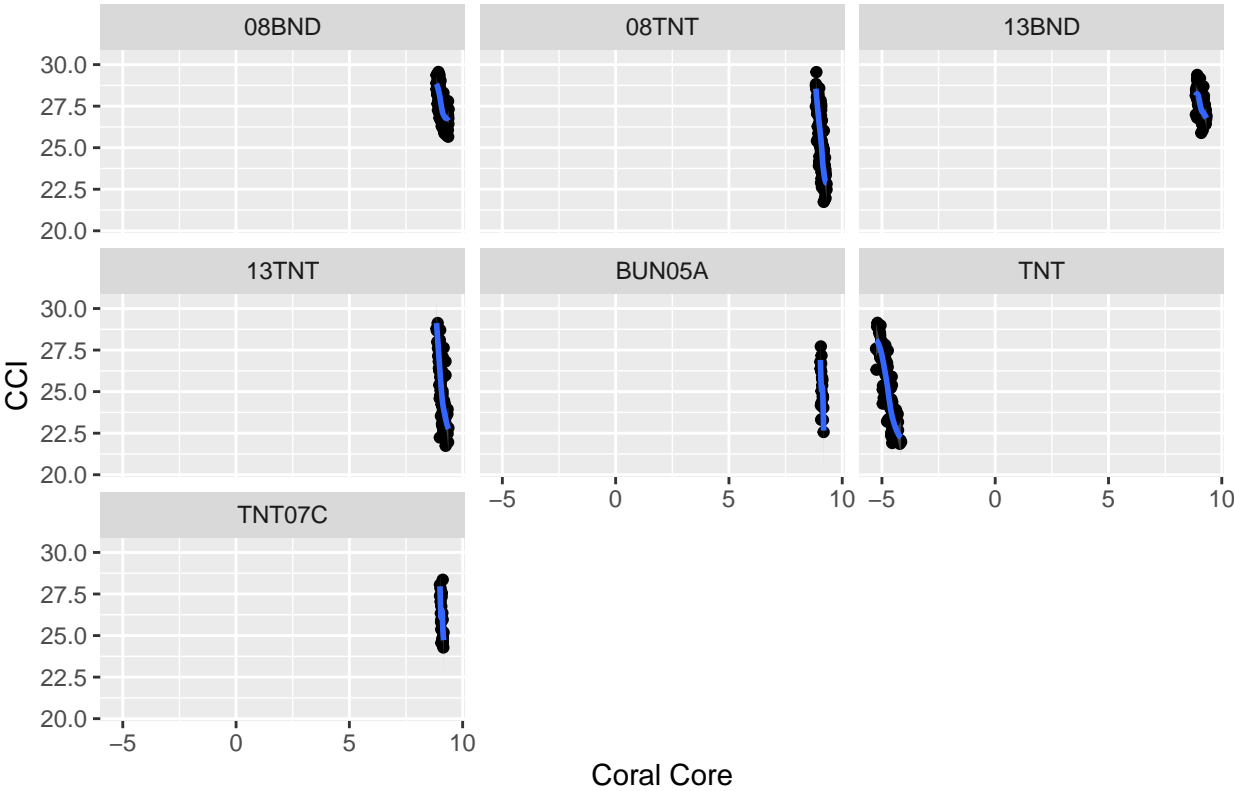




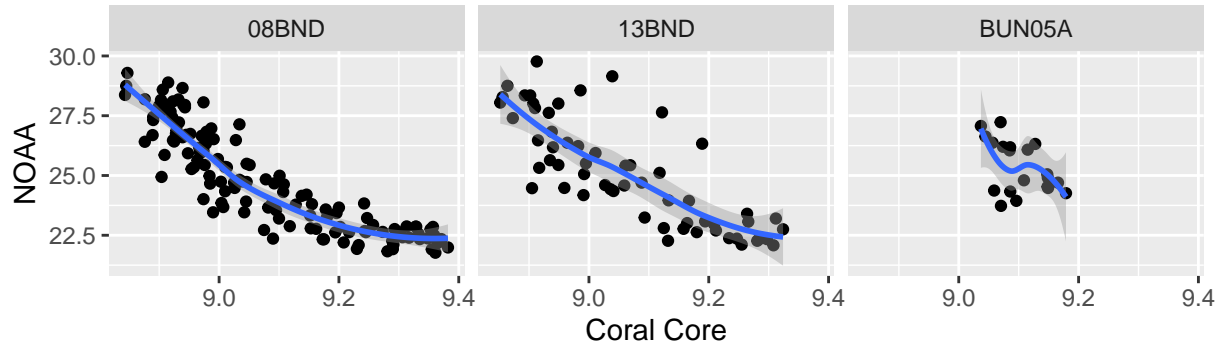
Ningaloo Reef NOAA SST and Coral Core Proxy



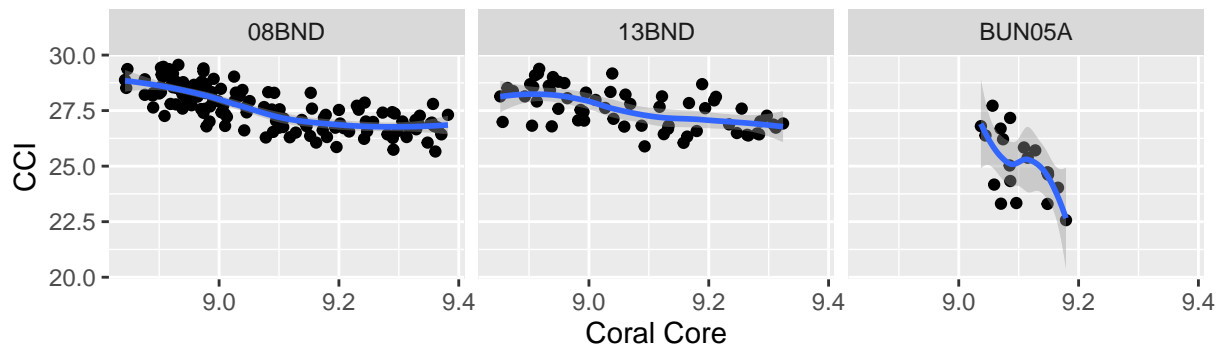
Ningaloo Reef CCI SST and Coral Core Proxy



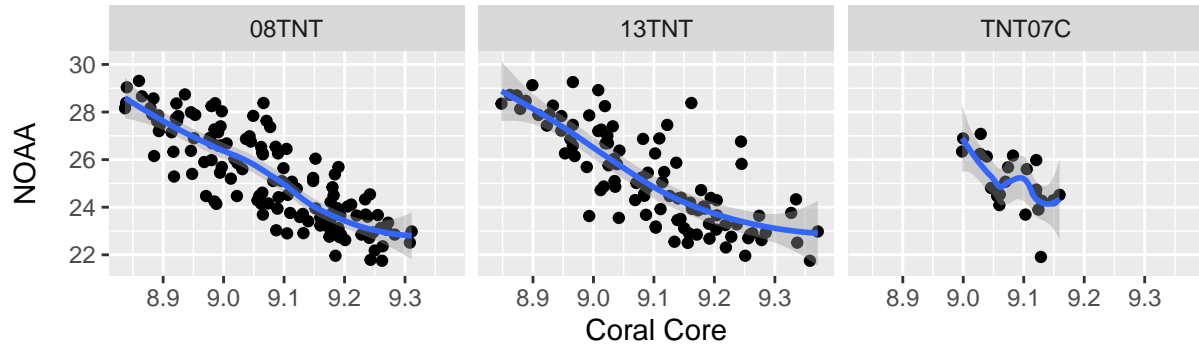
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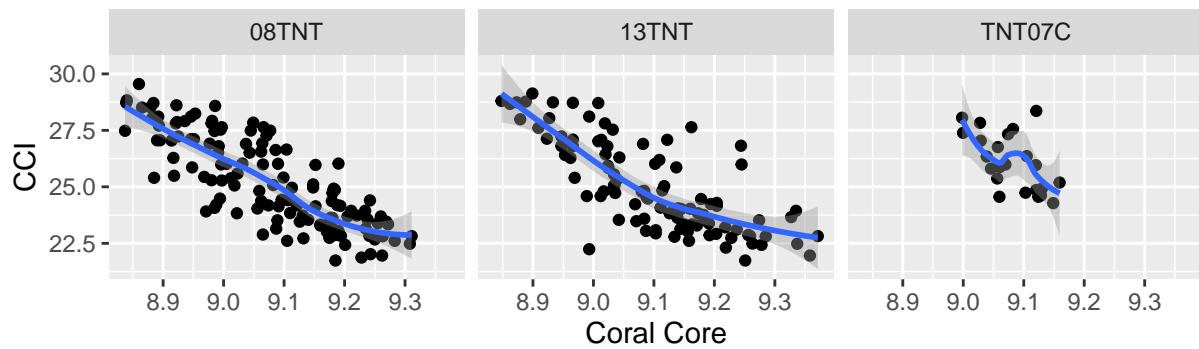
Ningaloo Reef Bundegi and BUN05A CCI SST and Coral Core Proxy



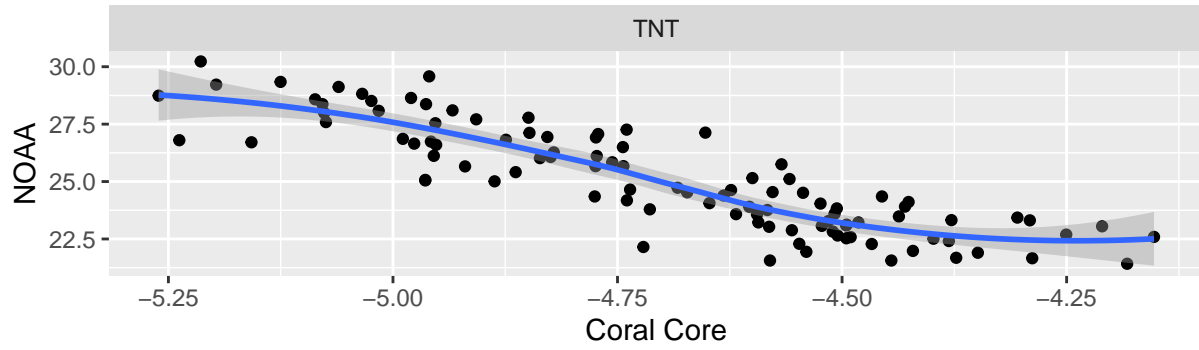
Ningaloo Reef Tantabiddi NOAA SST and Coral Core Proxy



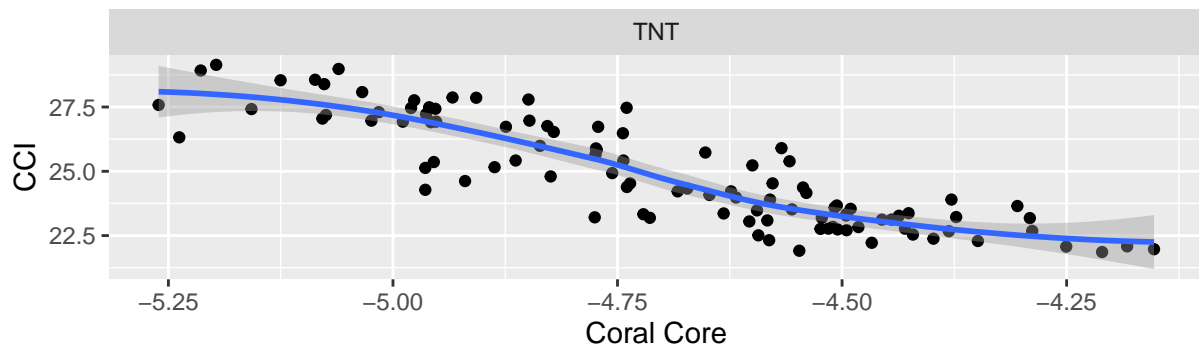
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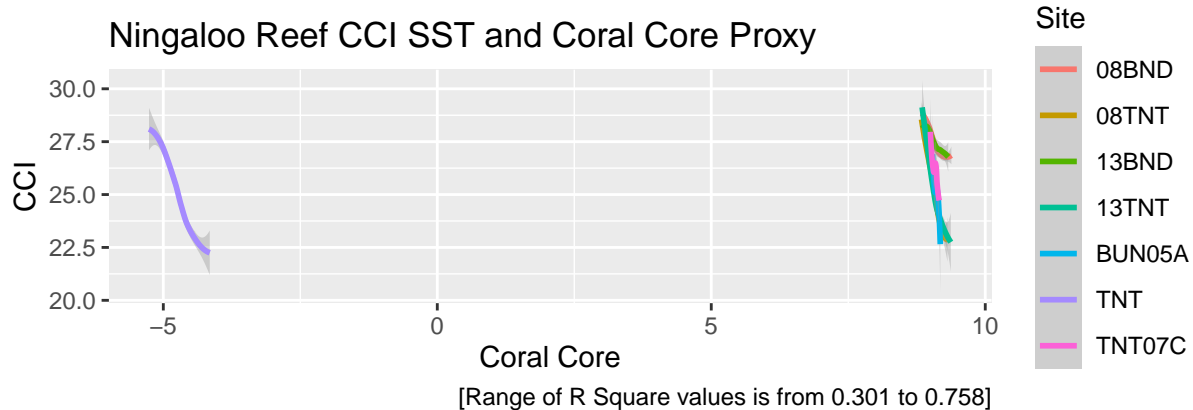
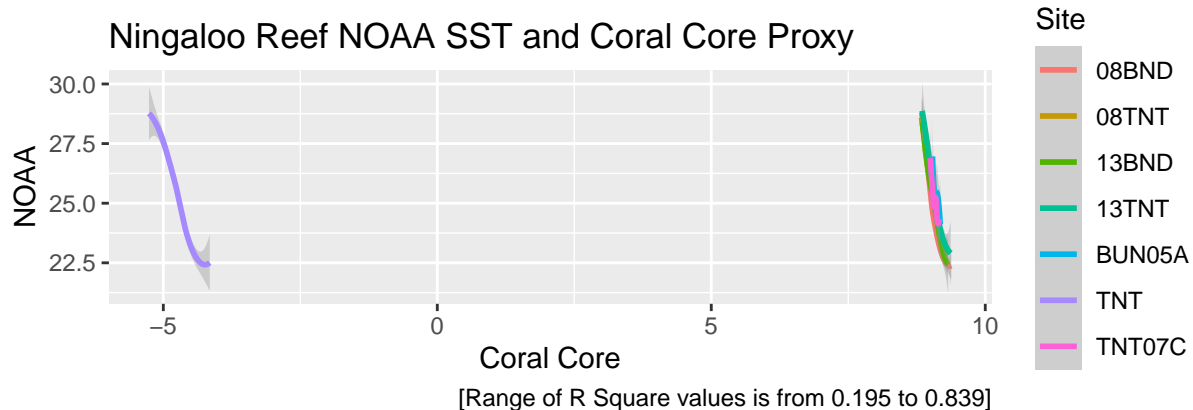


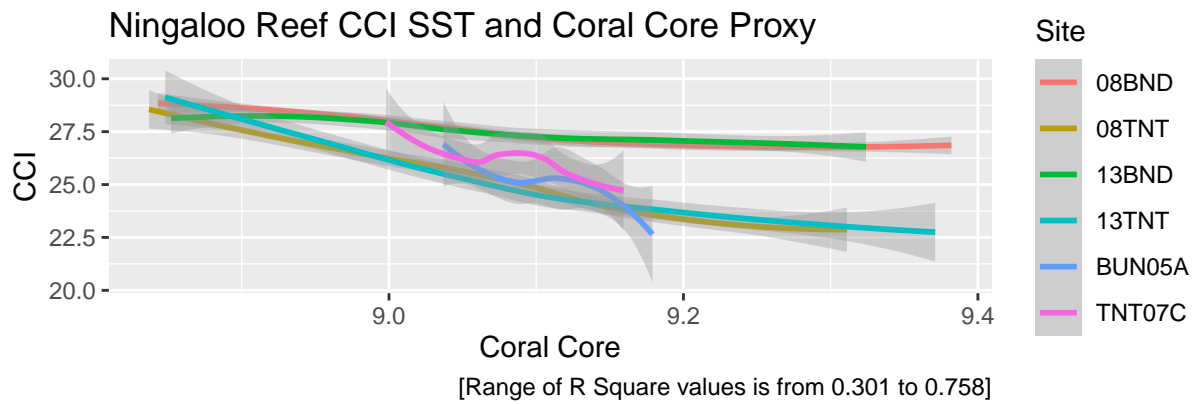
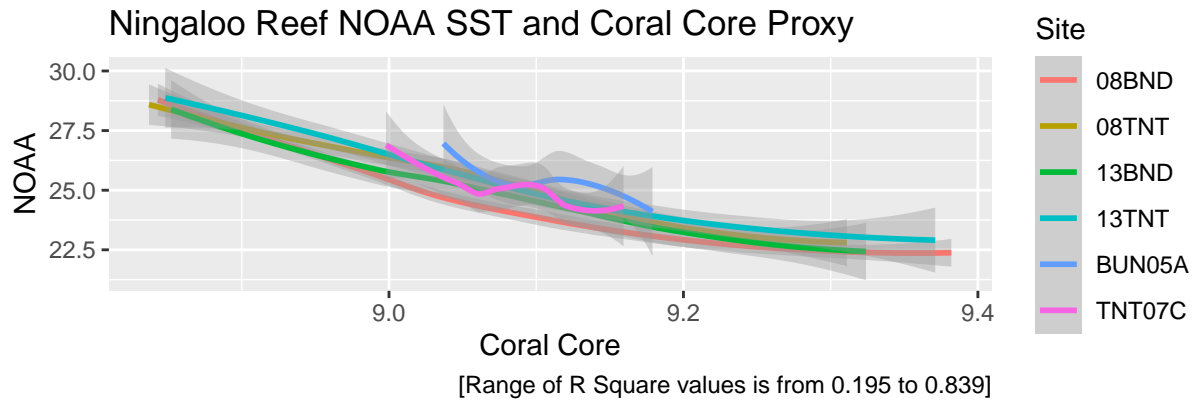
Ningaloo Reef TNT NOAA SST and Coral Core Proxy



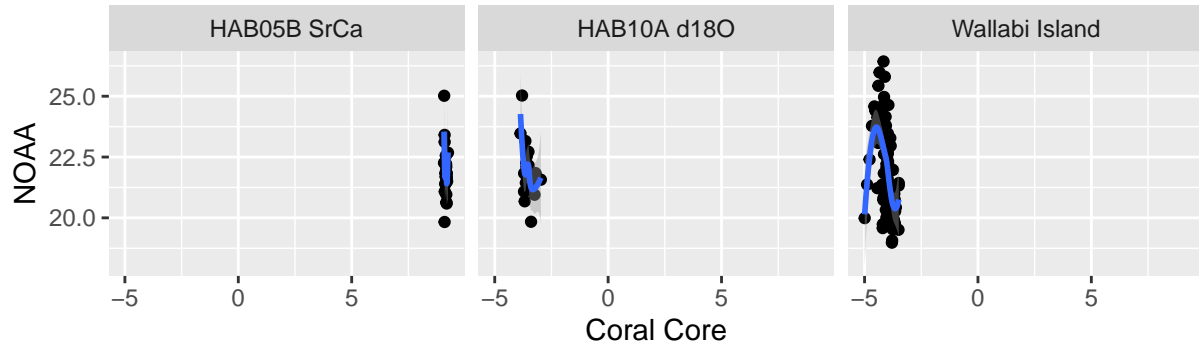
Ningaloo Reef TNT CCI SST and Coral Core Proxy



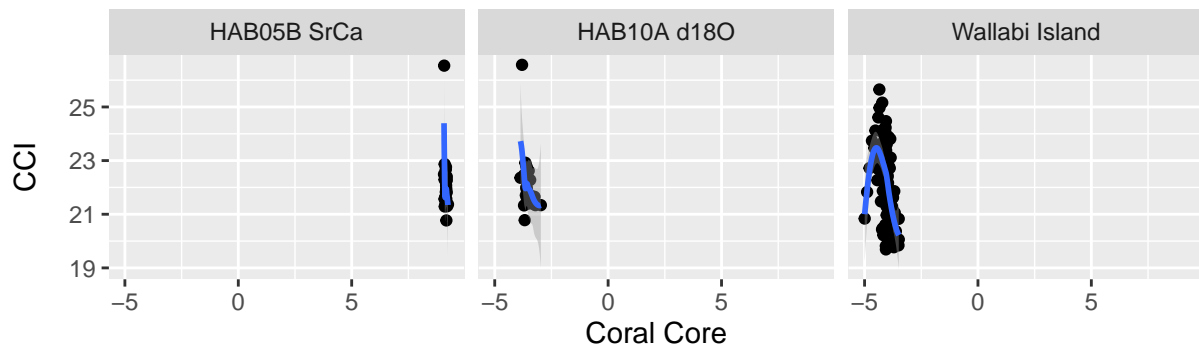


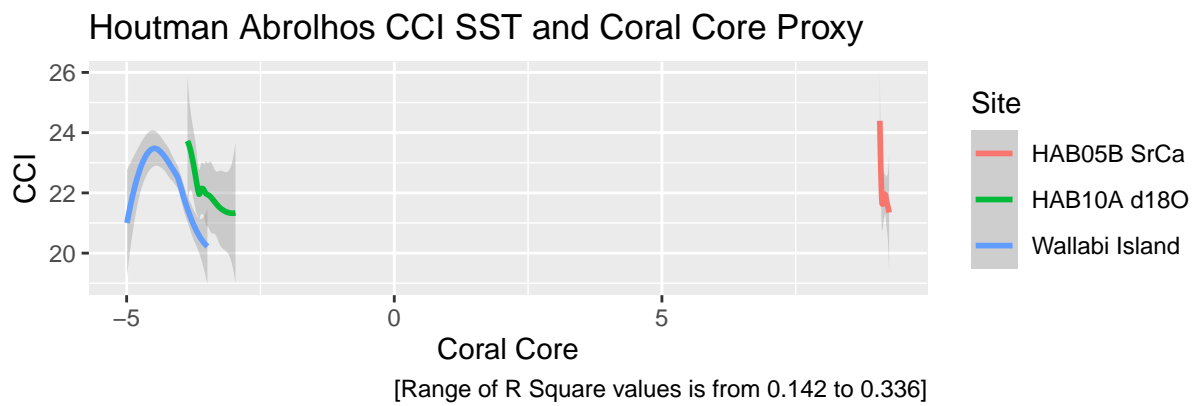
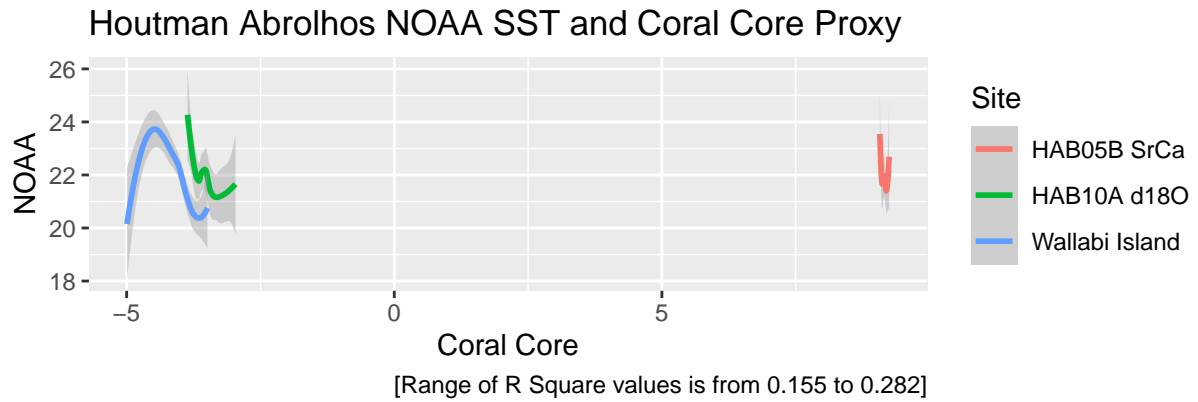


Houtman Abrolhos NOAA SST and Coral Core Proxy



Houtman Abrolhos CCI SST and Coral Core Proxy





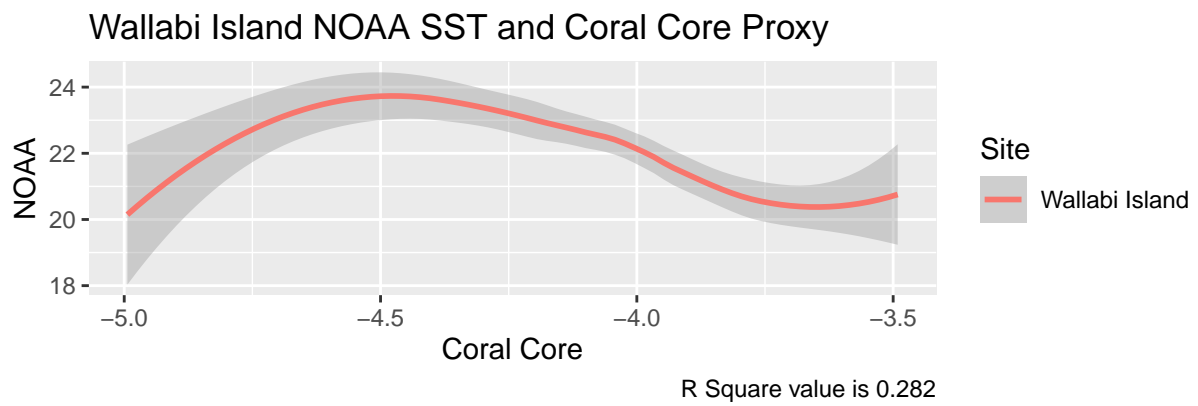
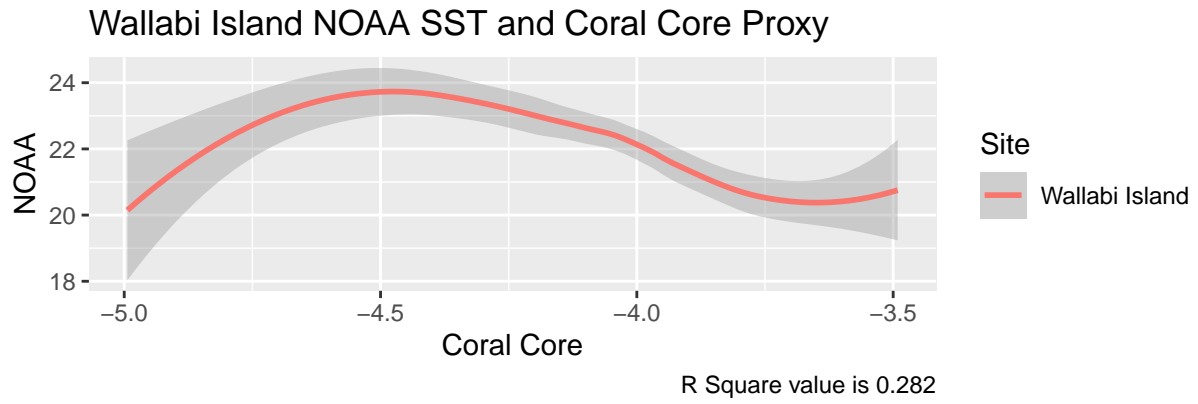


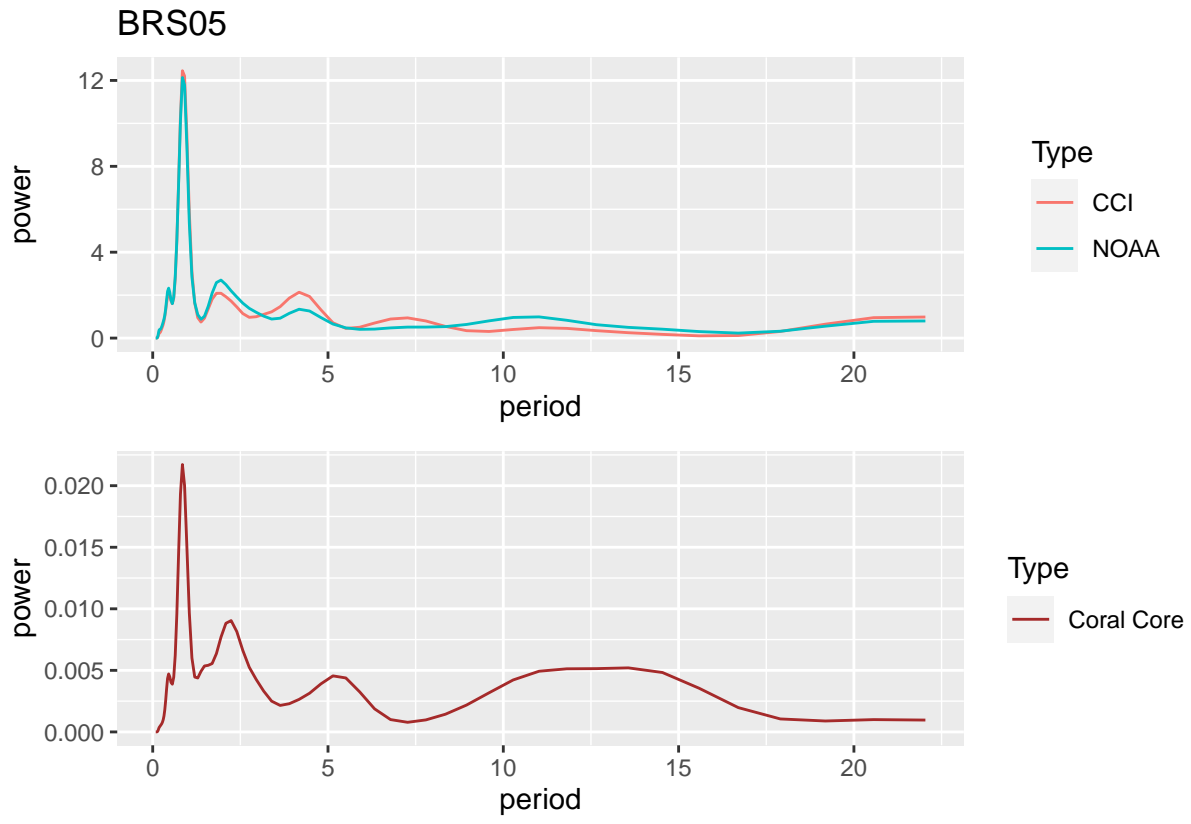
Table 1: NOAA

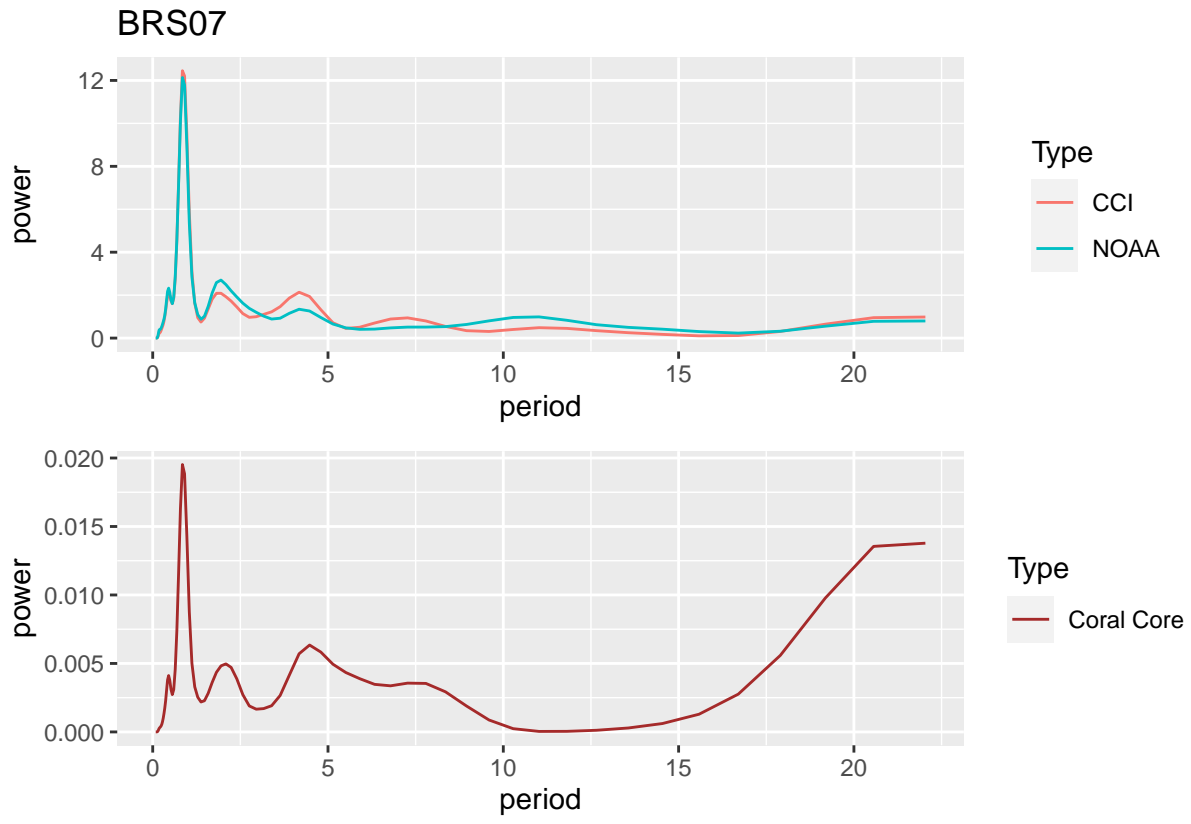
| | Browse | | Cocos Keeling | | Ningaloo | | | | | | | Houtman Abrolhos | |
|------------|--------------------|--------------------|-------------------|-------------------|-----------------------|--------------------|-------------------|--------------------|--------------------|----------------------|--------------------|--------------------|-------------------|
| | BRS05 | BRS07 | DARL | DAR3 | 13TNT | 08TNT | TNT | TNT07C | 13BND | 08BND | BUN05A | Wallabi Island | HAB10A d18O |
| L_Browse | −15.892 (0.968) | −18.394 (0.967) | | | | | | | | | | | |
| L_Cocos | | | −7.413 (0.957) | −7.413 (0.957) | | | | | | | | | |
| L_Ningaloo | | | | | −344.021 (129.197) | −13.498 (0.762) | −7.569 (0.429) | −15.825 (4.421) | −12.655 (1.170) | −502.398 (68.200) | −12.498 (5.286) | | |
| Q_Ningaloo | | | | | 18.191 (7.096) | | | | | 26.896 (3.741) | | | |
| L_HAbrol | | | | | | | | | | | | −40.056 (9.792) | −2.236 (1.014) |
| Q_HAbrol | | | | | | | | | | | | −4.484 (1.176) | |
| Num.Obs. | 273 | 273 | 255 | 255 | 98 | 135 | 102 | 23 | 60 | 133 | 20 | 100 | 22 |
| R2 | 0.499 | 0.572 | 0.192 | 0.192 | 0.639 | 0.702 | 0.757 | 0.379 | 0.668 | 0.842 | 0.237 | 0.297 | 0.196 |
| R2 Adj. | 0.497 | 0.570 | 0.188 | 0.188 | 0.631 | 0.700 | 0.754 | 0.349 | 0.663 | 0.839 | 0.195 | 0.282 | 0.155 |
| AIC | 748.8 | 705.7 | 632.0 | 632.0 | 321.9 | 406.1 | 318.0 | 67.3 | 204.6 | 338.5 | 60.0 | 366.4 | 64.8 |

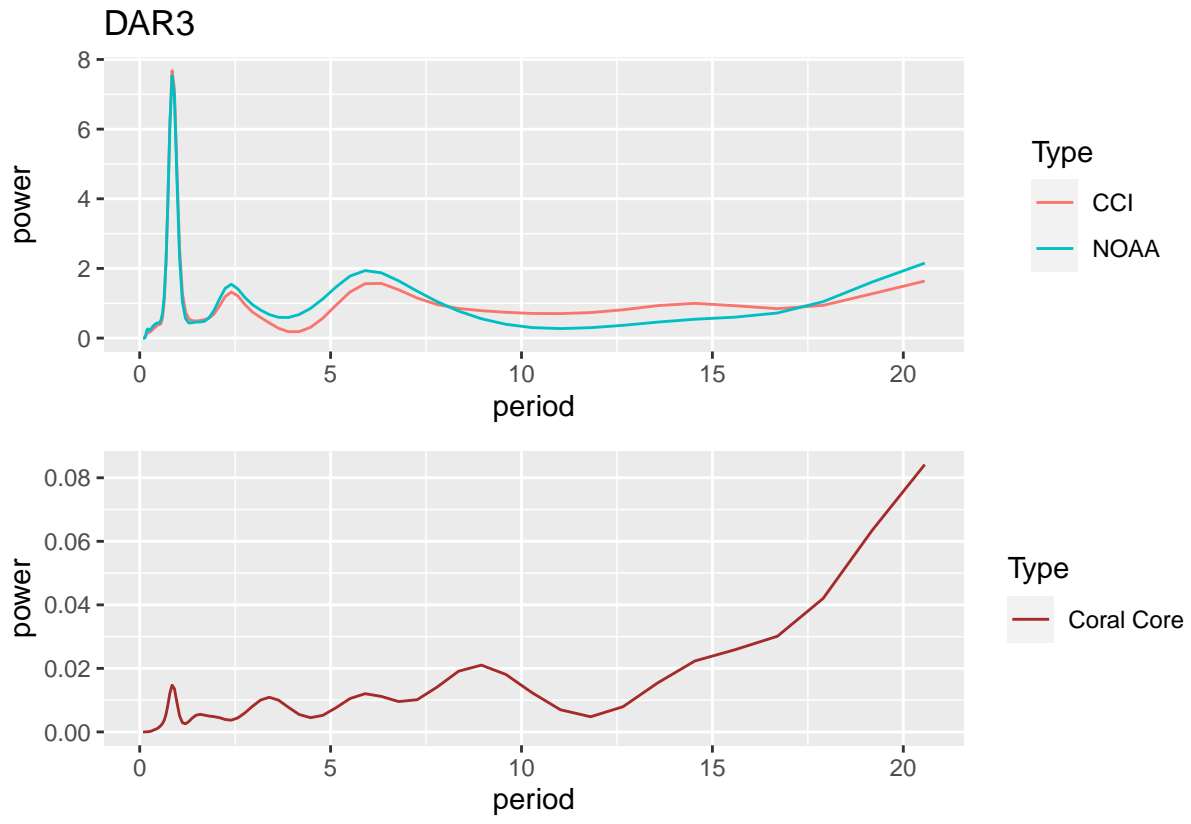
Table 2: CCI

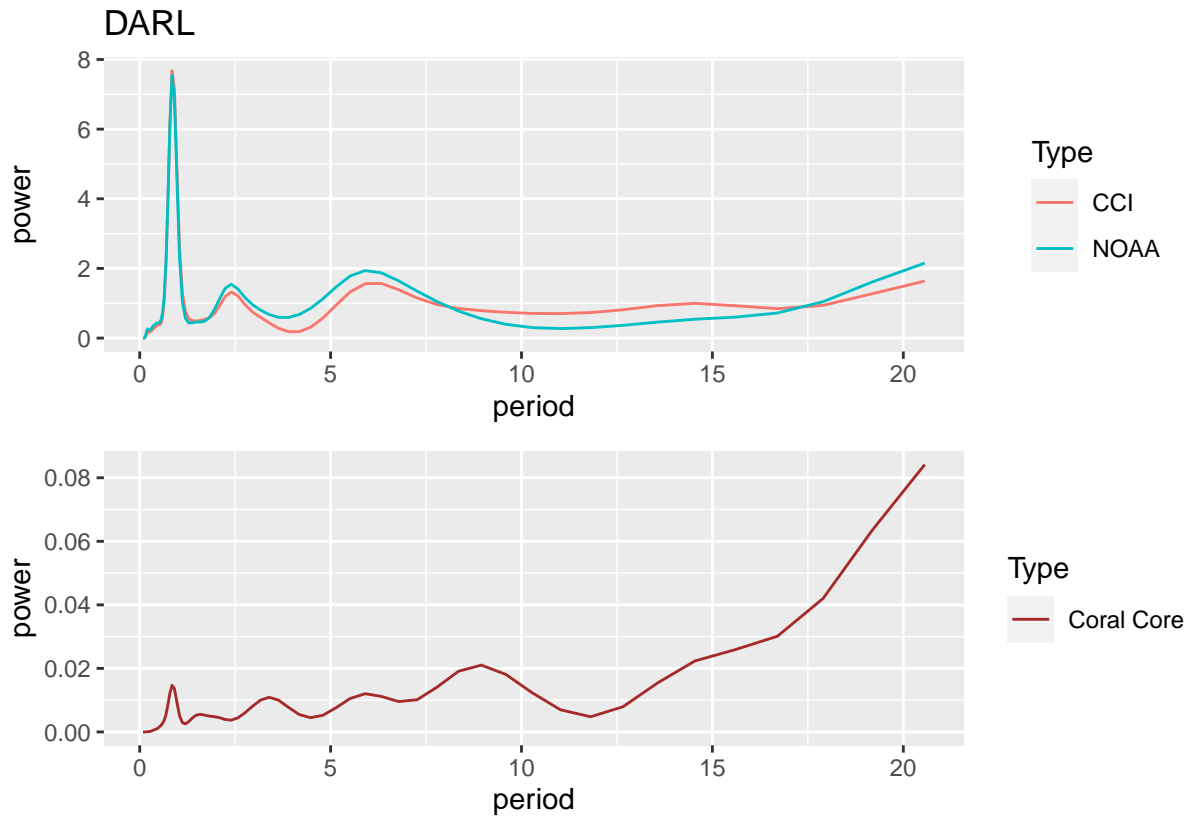
| | Browse | | Cocos Keeling | | Ningaloo | | | | | | Houtman Abrolhos | | | |
|------------|--------------------|----------------------|-------------------|-------------------|-----------------------|--------------------|-------------------|--------------------|-------------------|----------------------|--------------------|--------------------|-------------------|--------------------|
| | BRS05 | BRS07 | DARL | DAR3 | 13TNT | 08TNT | TNT | TNT07C | 13BND | 08BND | BUN05A | Wallabi Island | HAB10A d18O | HAB05B SrCa |
| L_Browse | -16.577 (0.875) | 531.158 (247.970) | | | | | | | | | | | | |
| Q_Browse | | -31.095 (14.024) | | | | | | | | | | | | |
| L_Cocos | | | -8.096 (0.890) | -8.096 (0.890) | | | | | | | | | | |
| L_Ningaloo | | | | | -435.076 (131.135) | -13.400 (0.815) | -6.812 (0.383) | -15.918 (4.844) | -3.654 (0.682) | -185.807 (49.633) | -19.640 (6.485) | | | |
| Q_Ningaloo | | | | | 23.210 (7.203) | | | | | 9.946 (2.723) | | | | |
| L_HAbrol | | | | | | | | | | | | -36.775 (7.852) | -2.363 (1.115) | -10.912 (4.886) |
| Q_HAbrol | | | | | | | | | | | | -4.124 (0.943) | | |
| Num.Obs. | 273 | 273 | 255 | 255 | 98 | 135 | 102 | 23 | 60 | 133 | 20 | 100 | 22 | 24 |
| R2 | 0.570 | 0.624 | 0.247 | 0.247 | 0.626 | 0.671 | 0.760 | 0.340 | 0.331 | 0.580 | 0.338 | 0.349 | 0.183 | 0.185 |
| R2 Adj. | 0.568 | 0.622 | 0.244 | 0.244 | 0.618 | 0.668 | 0.758 | 0.308 | 0.320 | 0.574 | 0.301 | 0.336 | 0.142 | 0.148 |
| AIC | 693.4 | 658.5 | 594.6 | 594.6 | 324.8 | 424.0 | 294.6 | 71.5 | 139.8 | 253.9 | 68.1 | 322.3 | 69.0 | 72.7 |

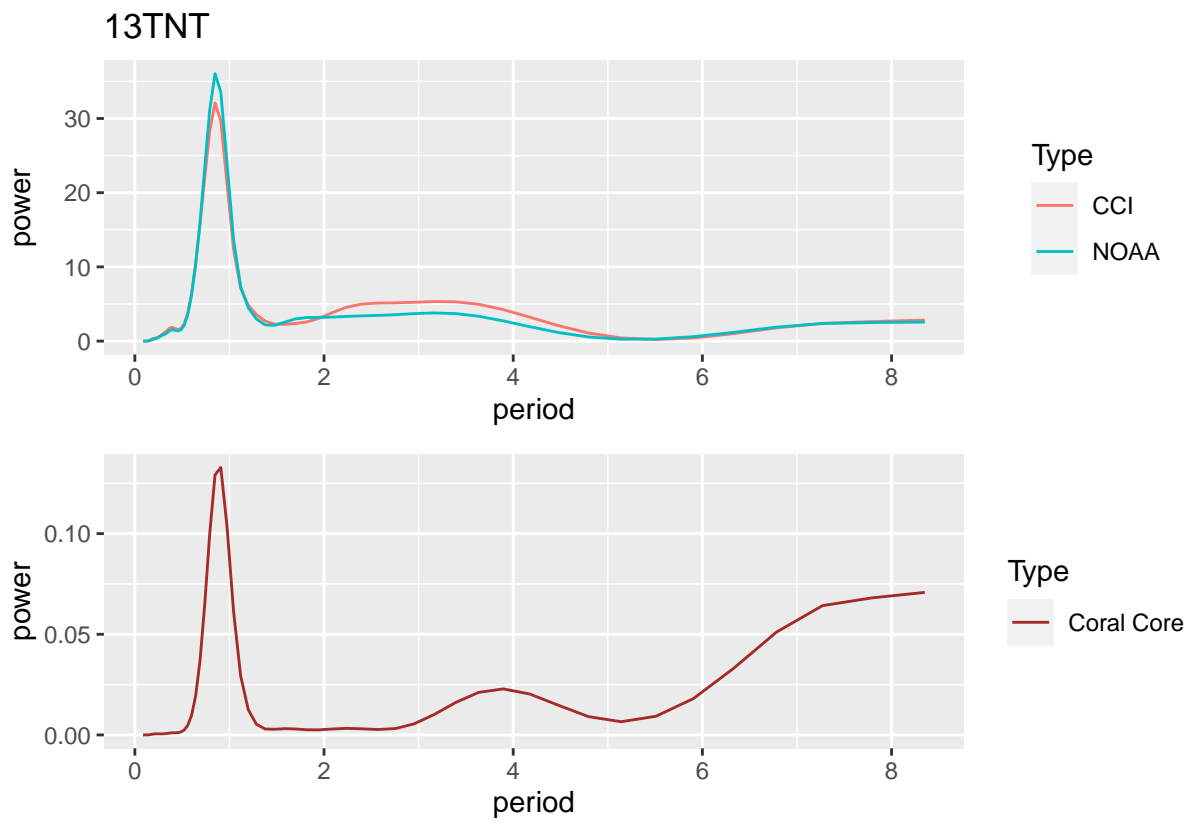
##Frequency Analysis - Spectral Analysis of Time Series for Sr/Ca Coral Proxy sites



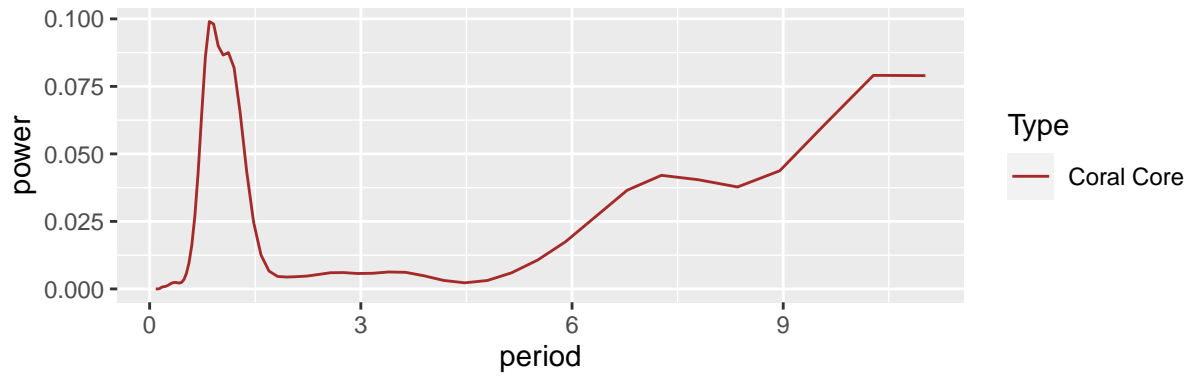
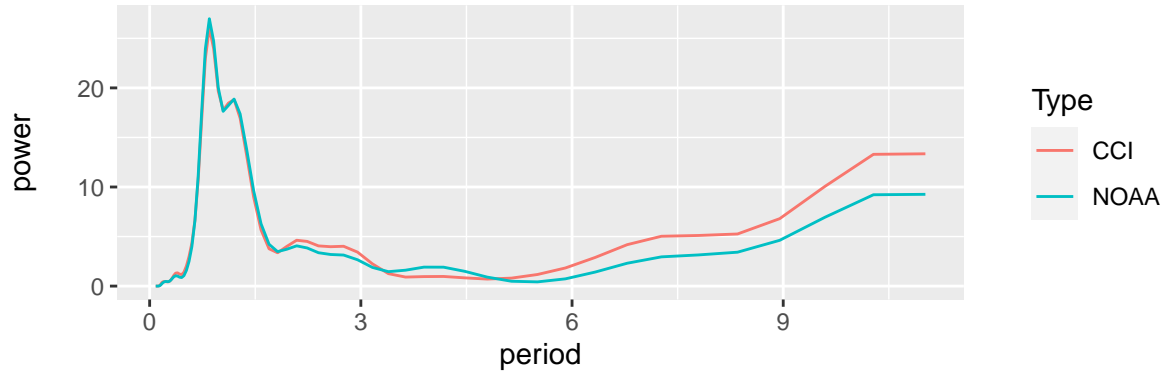








08TNT



13BND

