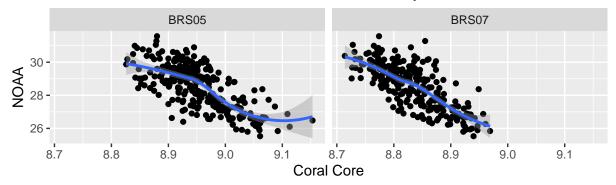
Coral Core Calibration and Frequency Analysis

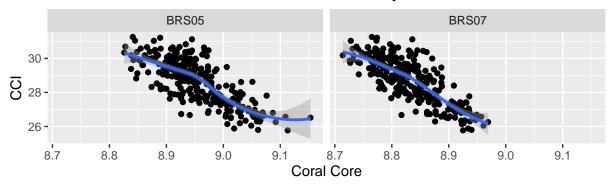
Vanessa Hui Fen Neo

2021-10-26

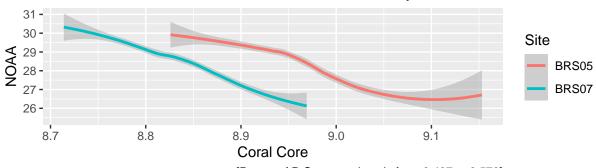
Browse Island NOAA SST and Coral Core Proxy



Browse Island CCI SST and Coral Core Proxy

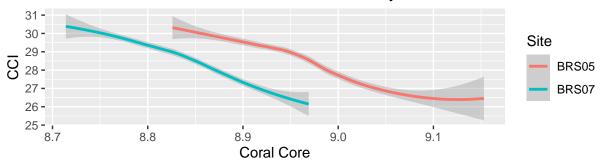


Browse Island NOAA SST and Coral Core Proxy



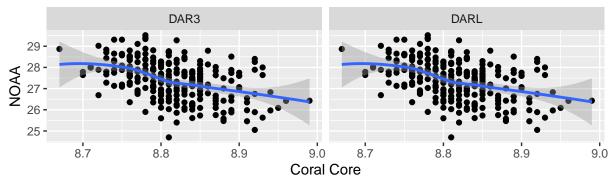
[Range of R Square values is from 0.497 to 0.570]

Browse Island CCI SST and Coral Core Proxy

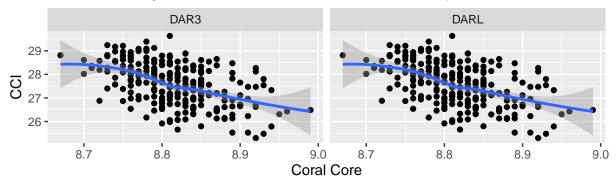


[Range of R Square values is from 0.568 to 0.622]

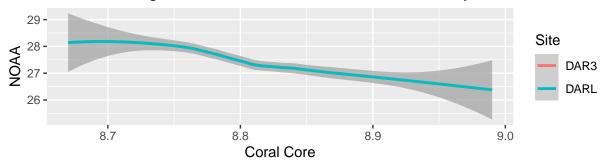
Cocos Keeling Island NOAA SST and Coral Core Proxy



Cocos Keeling Island CCI SST and Coral Core Proxy

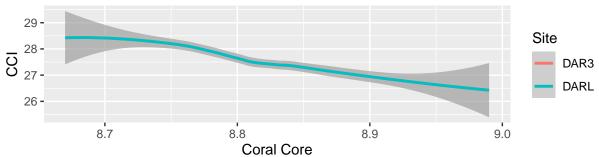


Cocos Keeling Island NOAA SST and Coral Core Proxy



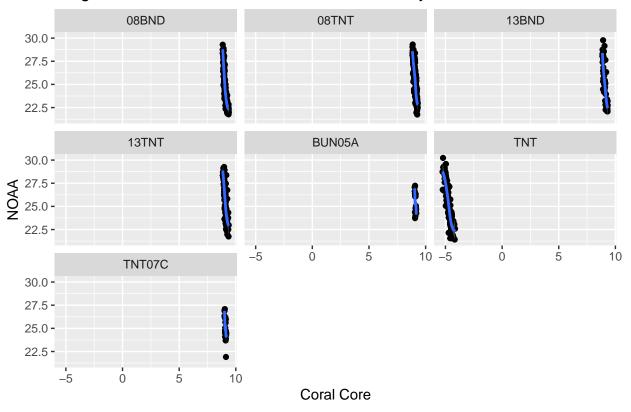
[R Square values for both sites are 0.188]

Cocos Keeling Island CCI SST and Coral Core Proxy

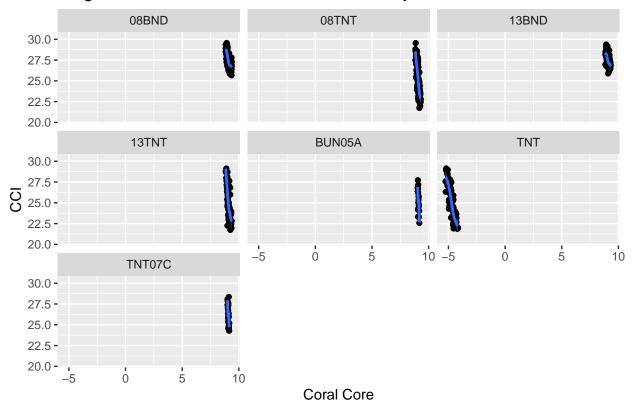


[R Square values for both sites are 0.244]

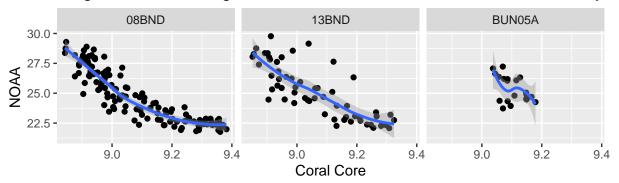
Ningaloo Reef NOAA SST and Coral Core Proxy



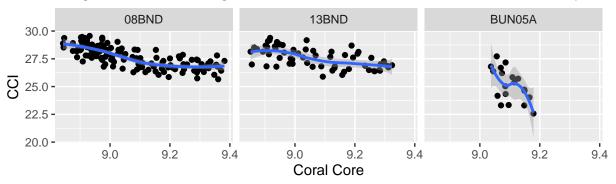
Ningaloo Reef CCI SST and Coral Core Proxy



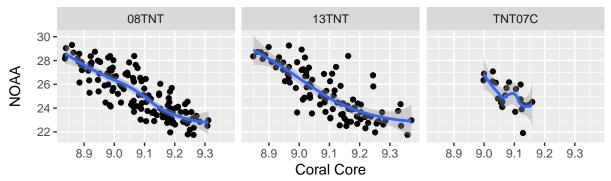
Ningaloo Reef Bundegi and BUN05A NOAA SST and Coral Core Proxy



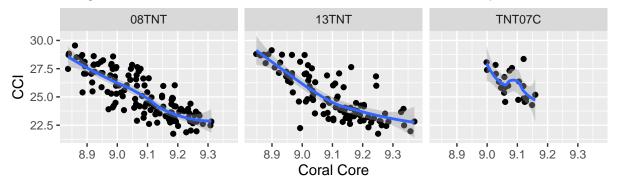
Ningaloo Reef Bundegi and BUN05A CCI SST and Coral Core Proxy



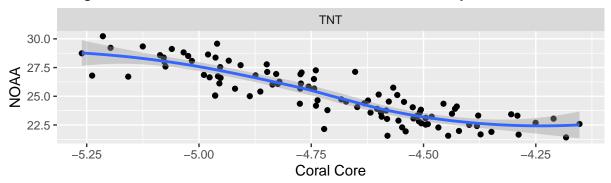
Ningaloo Reef Tantabiddi NOAA SST and Coral Core Proxy



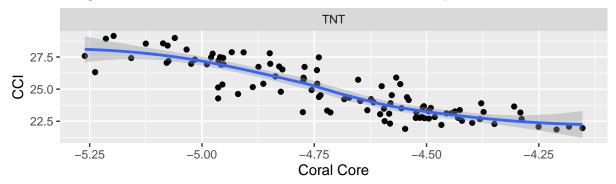
Ningaloo Reef Tantabiddi CCI SST and Coral Core Proxy

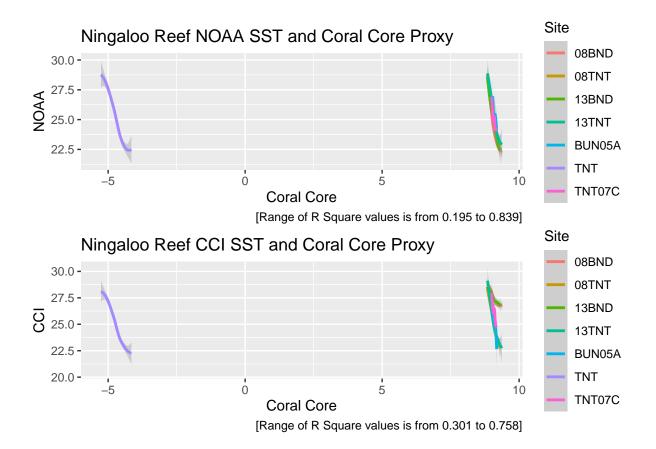


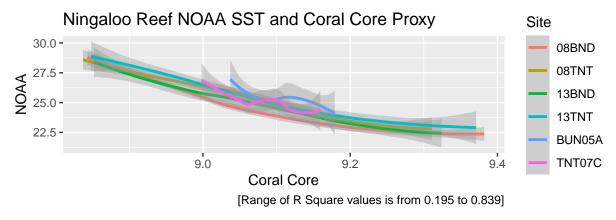
Ningaloo Reef TNT NOAA SST and Coral Core Proxy

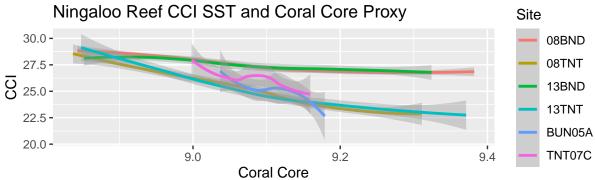


Ningaloo Reef TNT CCI SST and Coral Core Proxy

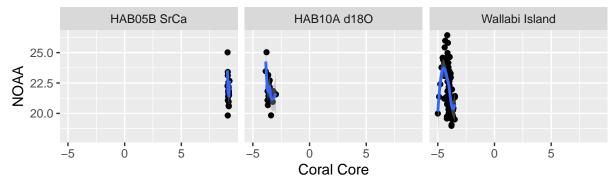




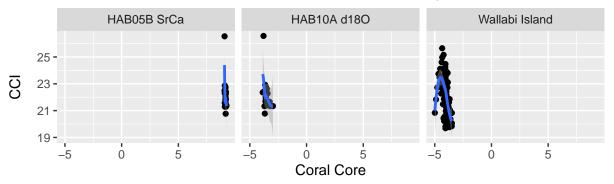




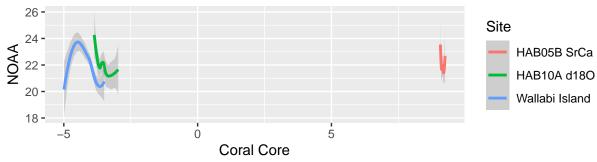
Houtman Abrolhos NOAA SST and Coral Core Proxy



Houtman Abrolhos CCI SST and Coral Core Proxy

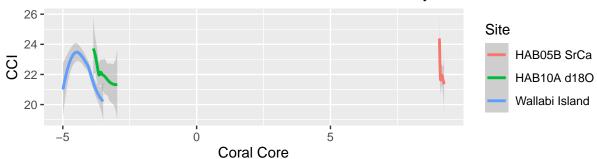


Houtman Abrolhos NOAA SST and Coral Core Proxy



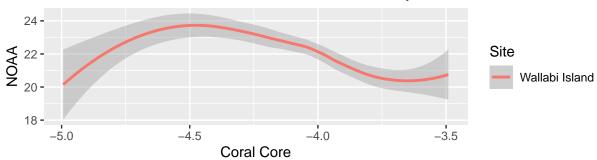
[Range of R Square values is from 0.155 to 0.282]

Houtman Abrolhos CCI SST and Coral Core Proxy



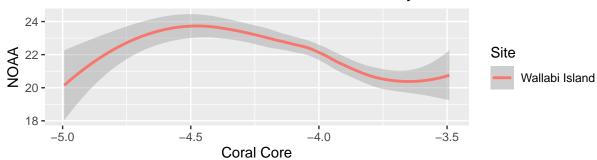
[Range of R Square values is from 0.142 to 0.336]

Wallabi Island NOAA SST and Coral Core Proxy



R Square value is 0.282

Wallabi Island NOAA SST and Coral Core Proxy



R Square value is 0.282

-	
-	

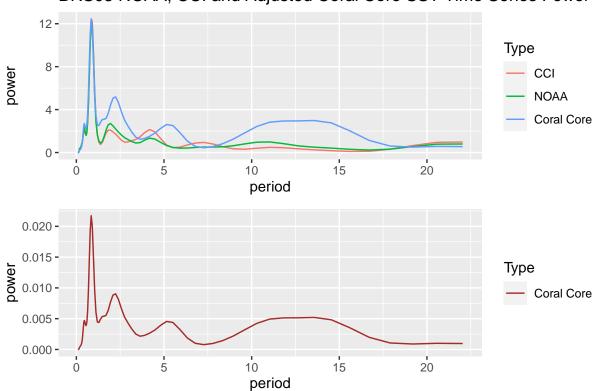
					F	Гable 1: N	OAA							
	Bro	Cocos	Keeling	Ningaloo								Houtman Abrolhos		
	BRS05	BRS07	DARL	DAR3	13TNT	08TNT	TNT	TNT07C	13BND	08BND	BUN05A	Wallabi Island	HAB10A d18O	
L_Browse	-15.892 (0.968)	-18.394 (0.967)												
L_Cocos			-7.413 (0.957)	-7.413 (0.957)										
L_Ningaloo					$-344.021 \\ (129.197)$		-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

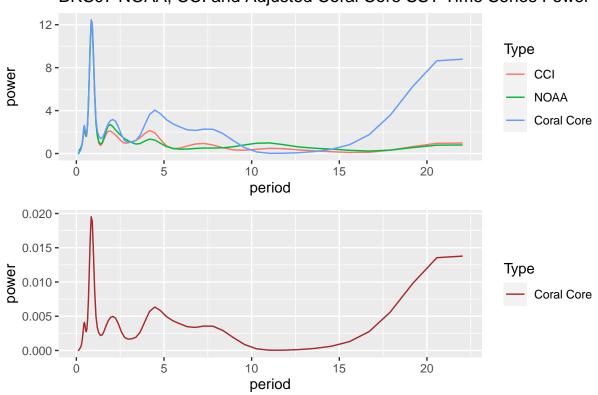
	Browse Cocos Keeling			Ningaloo							Houtman Abrolhos			
	BRS05	BRS07	DARL	DAR3	13TNT	08TNT	TNT	TNT07C	C 13BND	08BND	BUN05A	Wallabi Island	HAB10 <i>A</i> d18O	A HAB05B SrCa
L_Browse	-16.577 (0.875)	531.158 (247.970))											
Q_Browse		-31.095 (14.024)												
L_Cocos			-8.096 (0.890)	-8.096 (0.890)										
L_Ningaloo			,	,		6-13.400 (0.815)	-6.812 (0.383)	-15.918 (4.844)	-3.654 (0.682)	-185.807 (49.633)	7 - 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)	(=-==)	(2.000)
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. AIC	$0.568 \\ 693.4$	$0.622 \\ 658.5$	$0.244 \\ 594.6$	$0.244 \\ 594.6$	$0.618 \\ 324.8$	$0.668 \\ 424.0$	$0.758 \\ 294.6$	$0.308 \\ 71.5$	0.320 139.8	$0.574 \\ 253.9$	$0.301 \\ 68.1$	$0.336 \\ 322.3$	$0.142 \\ 69.0$	$0.148 \\ 72.7$

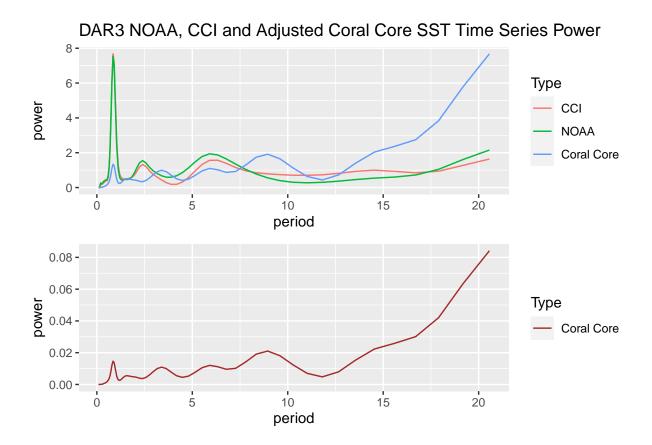
Frequency Analysis - Spectral Analysis of Time Series for $\mathrm{Sr/Ca}$ Coral Proxy sites

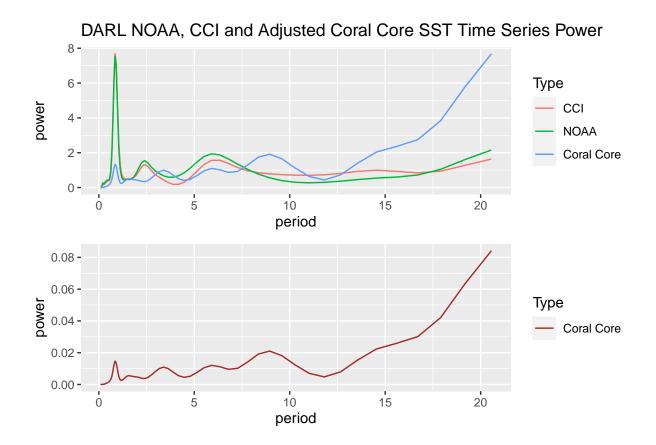


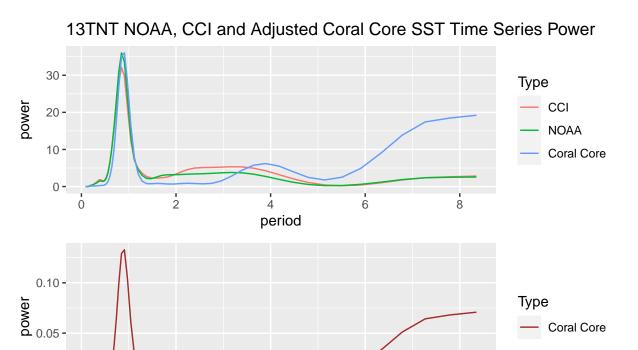






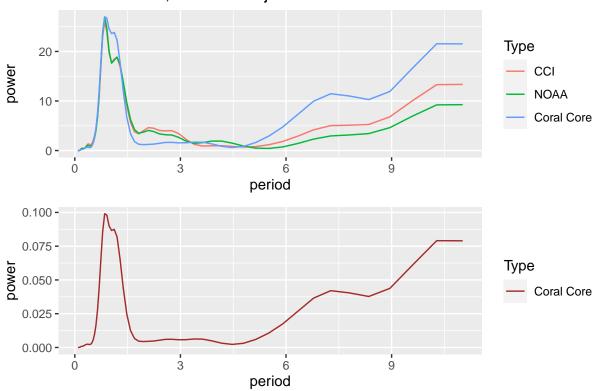




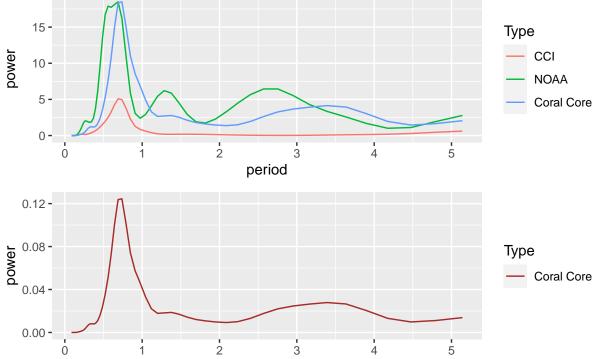


period 0.00 -

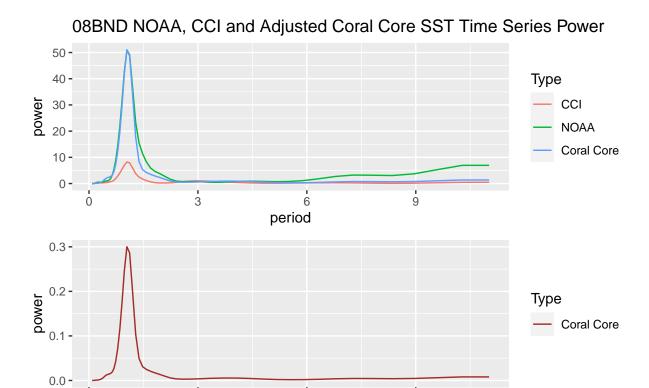








period



period 

