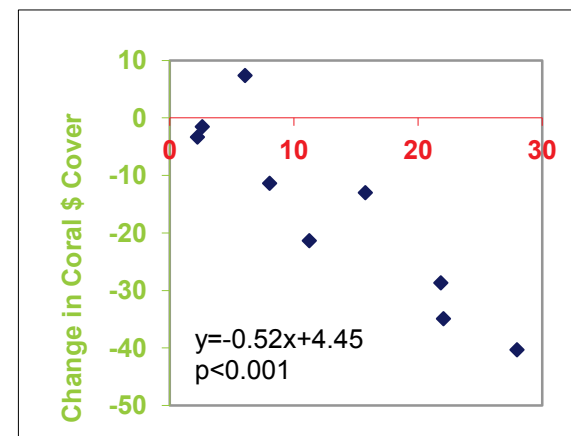
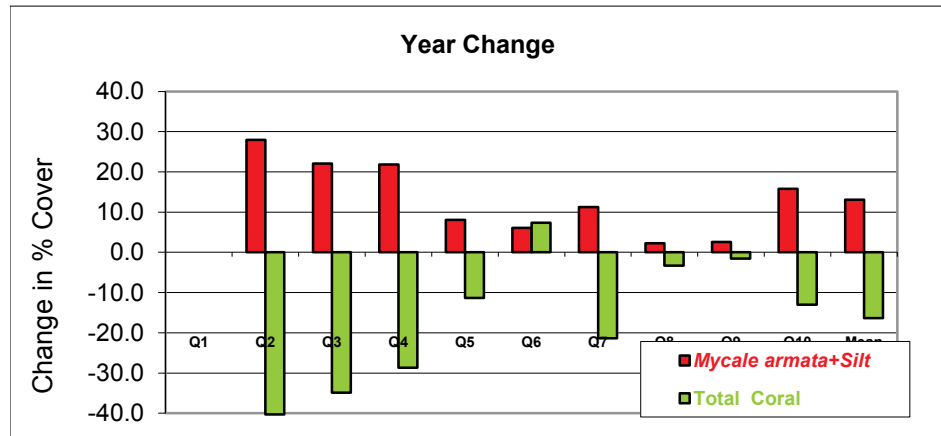


## Control Quadrats- Year

TRANSECT NAME	Quad1Quar3	Quad1Quar4	Delt	Quad2Start	Quad2Quar4	Delt	Quad3Start	Quad3Quar4	Delt	Quad4Start
Number of frames	No data	No data		1	1		1	1		1
Total points	No data	No data		100	100		100	100		100
Total points (minus tape+wand+shado	No data	No data		92	90		85	92		89
CATEGORY (% of transect)	No data	No data								
MACROALGAE	No data	No data		0.00	0.00	0.0	0.00	0.00	0.0	0.00
CORALLINE ALGAE	No data	No data		0.00	0.00	0.0	0.00	0.00	0.0	0.00
CORAL	No data	No data		85.87	45.56	-40.3	58.82	23.91	-34.9	76.40
MYCALE ARMATA	No data	No data		8.70	30.00	21.3	27.06	35.87	8.8	20.22
OTHER INVERTEBRATES	No data	No data		0.00	1.11	1.1	0.00	0.00	0.0	2.25
DEAD CORAL, RUBBLE	No data	No data		5.43	16.67	11.2	2.35	15.22	12.9	0.00
SUBSTRATUM	No data	No data		0.00	6.67	6.7	11.76	25.00	13.2	1.12
TAPE, WAND, SHADOW	No data	No data		8.00	10.00	2.0	15.00	8.00	-7.0	11.00
Sum (excluding tape+shadow+wand)	No data	No data		100.00	100.00	0.0	100.00	100.00	0.0	100.00
Silt	No data	No data		0.0	6.7	6.7	11.76	25.00	13.2	1.12
MYCALE ARMATA+Silt				8.7	36.7	28.0	38.8	60.9	22.0	21.3

Year Changes	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Mycale armata+Silt		28.0	22.0	21.8		8.0	6.1	11.2	2.2	15.8
Total Coral		-40.3	-34.9	-28.7		-11.4	7.4	-21.3	-3.3	-13.0
Silt		6.7	13.2	2.3		6.6	11.2	10.1	-2.2	3.4



Quadrat

Change in Mycale % Cover

t-Test: Paired

Mean  
Variance  
Observations  
Pearson Correlation  
Hypothesized  
df  
t Stat  
P(T<=t) one-tailed  
t Critical one-tailed  
P(T<=t) two-tailed  
t Critical two-tailed

Quad4Quar4	Delt	Quad5Star	Quad5Quar4	Delt	Quad6Start	Quad6Quar4	Delt	Quad7Start	Quad7Quar4	Delt	Quad8Start	Quad8Quar4
1		1	1		1	1		1	1		1	1
100		100	100		100	100		100	100		100	100
88		92	91		84	89		89	89		90	90

0.00	0.0	0.00	0.00	0.0	1.19	0.00	-1.2	0.00	0.00	0.0	0.00	0.00
0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.00	0.00
47.73	-28.7	65.22	53.85	-11.4	48.81	56.18	7.4	32.58	11.24	-21.3	61.11	57.78
39.77	19.5	31.52	32.97	1.4	32.14	26.97	-5.2	56.18	57.30	1.1	32.22	36.67
0.00	-2.2	0.00	1.10	1.1	7.14	1.12	-6.0	0.00	0.00	0.0	1.11	0.00
7.95	8.0	0.00	5.49	5.5	10.71	4.49	-6.2	1.12	10.11	9.0	0.00	2.22
4.55	3.4	3.26	6.59	3.3	0.00	11.24	11.2	10.11	21.35	11.2	5.56	3.33
12.00	1.0	8.00	9.00	1.0	16.00	11.00	-5.0	11.00	11.00	0.0	10.00	10.00
100.00	0.0	100.00	100.00	0.0	100.00	100.00	0.0	100.00	100.00	0.0	100.00	100.00
3.4	2.3	0.0	6.6	6.6	0.00	11.2	11.2	10.11	20.2	10.1	5.56	3.3
43.2	21.8	31.5	39.6	8.0	32.1	38.2	6.1	66.3	77.5	11.2	37.8	40.0

Mycale armat Total Coral

Mean

SD

13.1 8.8  
-16.3 15.2  
6.3 4.5

Q1

Q2 28.0 -40.3  
Q3 22.0 -34.9  
Q4 21.8 -28.7  
Q5 8.0 -11.4  
Q6 6.1 7.4  
Q7 11.2 -21.3  
Q8 2.2 -3.3  
Q9 2.6 -1.5  
Q10 15.8 -13.0

SUMMARY OUTPUT

Regression Statistics

Multiple R 0.917394  
R Square 0.841612  
Adjusted R 0.818985  
Standard E 3.955398  
Observatio 9

Mycale			Coral	
Quad	Start	End	Start	End
2	8.7	36.7	85.87	45.56
3	38.8	60.9	58.82	23.91
4	21.3	43.2	76.40	47.73
5	31.5	39.6	65.22	53.85
6	32.1	38.2	48.81	56.18
7	66.3	77.5	32.58	11.24
8	37.8	40.0	61.11	57.78
9	22.1	24.7	69.77	68.24

10      57.0      72.7      22.09      9.09

Mycale  
t Two Sample for Means

Variable 1	Variable 2
48.16022	35.07464139
321.77977	318.6998891
9	9
0.8650635	
0	
8	
4.2226074	
0.0014527	
1.8595483	
0.0029055	
2.3060056	

Coral  
t-Test: Paired Two Sample for Means

	Variable 1	Variable 2
Mean	41.50685966	57.853372
Variance	459.8067476	416.98755
Observation	9	9
Pearson Correlation	0.703826303	
Hypothesized Std. Dev.	0	
df	8	
t Stat	-3.038851064	
P(T<=t) one-tail	0.008045685	
t Critical one-tail	1.85954832	
P(T<=t) two-tail	0.016091369	
t Critical two-tail	2.306005626	

ANOVA

	df	SS	MS	F
Regression	1	582	581.9277	37.19535
Residual	7	110	15.64517	
Total	8	691		

	Coefficients	Standard Error	t Stat	P-value
Intercept	4.446296	1.94	2.297596	0.055186
X Variable	-0.52851	0.09	-6.0988	0.000492

Delt	Quad9Start	Quad9Quar4	Delt	Quad10Start	Quad10Quar4	Delt
	1	1		1	1	
	100	100		100	100	
	86	85		86	88	

0.0	0.00	0.00	0.0	0.00	0.00	0.0
0.0	0.00	0.00	0.0	2.33	0.00	-2.3
-3.3	69.77	68.24	-1.5	22.09	9.09	-13.0
4.4	22.09	18.82	-3.3	54.65	67.05	12.4
-1.1	3.49	2.35	-1.1	2.33	0.00	-2.3
2.2	4.65	4.71	0.1	16.28	18.18	1.9
-2.2	0.00	5.88	5.9	2.33	5.68	3.4
0.0	14.00	15.00	1.0	14.00	12.00	-2.0
0.0	100.00	100.00	0.0	100.00	100.00	0.0
-2.2	0.00	5.9	5.9	2.33	5.68	3.4
2.2	22.1	24.7	2.6	57.0	72.7	15.8

Significance F  
0.0005

---

<u>Lower 95%Upper 95%Lower 95.0%er 95.0%</u>			
-0.1297	9.022302	-0.12971	9
-0.7334	-0.3236	-0.73342	-0

---