

APPENDIX 1

RAW DATA FROM THE SURVEYS OF HARD CORALS AND OTHER ENCRUSTING ORGANISMS MADE IN THE FOUR MONITORING SITES ON NORMAN REEF

Raw data from the 5 replicate permanent transects is shown as total intercepts in cm for each species or group of species, along with the mean and standard deviation for each group of transects (bold type). See figures 4-7 for the position of the transects.

ENCrustING ORGANISMS and SUBSTRATUM TYPE: NORMAN REEF; pontoon, shallow; 1st Apr.1987

Transect #	1	2	3	4	5	mean	std.dev.
	(cm)	(cm)	(cm)	(cm)	(cm)	(% cover)	(% cover)

SUBSTRATUM TYPE:

Coral basement	739	542	1160	879	790	41.1	11.3
Coral rubble	0	0	0	0	0	0.0	0.0
Sand	0	0	0	0	0	0.0	0.0

HARD CORALS:

POCILLOPORIDAE							
<i>Seriatopora hystrix</i>	0	0	0	0	0	0.0	0.0
<i>Pocillopora spp.</i>	5	0	6	0	0	0.1	0.2
<i>Stylophora pistillata</i>	30	37	28	34	3	1.3	0.7
ACROPORIDAE							
<i>Acropora palifera</i>	61	26	52	35	0	1.7	1.2
<i>Acropora humilis</i>	0	58	0	39	82	1.8	1.8
<i>Acropora staghorn</i>	70	20	25	5	55	1.8	1.3
<i>Acropora small clumps</i>	172	305	21	81	177	7.6	5.4
<i>Acropora plate</i>	100	416	218	10	57	8.0	8.1
<i>Montipora explanate</i>	202	10	35	235	154	6.4	5.0
PORITIDAE							
<i>Goniopora/Alveopora spp.</i>	0	0	0	0	0	0.0	0.0
<i>Porites massive</i>	299	334	215	365	361	15.7	3.1
<i>Porites finger</i>	0	0	0	10	22	0.3	0.5
<i>Porites lichen</i>	0	0	0	0	0	0.0	0.0
OCULINIDAE							
<i>Galaxea spp.</i>	0	0	0	0	0	0.0	0.0
MUSSIDAE							
<i>Lobophyllia/Symphyllia spp.</i>	0	0	0	0	0	0.0	0.0
MERULINIDAE							
<i>Hydnophora/Merulina spp.</i>	12	0	0	0	0	0.1	0.3
FAVIIDAE							
<i>Favia/Favites spp.</i>	44	63	57	75	62	3.0	0.6
<i>Goniastrea spp.</i>	45	63	20	23	21	1.7	1.0
<i>Platygyra spp.</i>	0	35	0	0	0	0.4	0.8
<i>Echinopora spp.</i>	0	0	0	0	0	0.0	0.0
DENDOPHYLLIIDAE							
<i>Turbinaria spp.</i>	0	0	0	0	0	0.0	0.0
OTHER HARD CORALS	70	7	17	89	106	2.9	2.2

SOFT CORALS:

<i>Sinularia spp.</i>	0	0	0	0	45	0.5	1.0
<i>Sarcophyton spp.</i>	77	0	0	0	0	0.8	1.7
Tufty low fawn	0	7	0	40	5	0.5	0.8
<i>Rumphella aggregata</i>	57	10	93	26	5	1.9	1.8
Other soft corals	0	0	0	20	42	0.6	0.9

TOTAL COVER OF ENCRUSTING ORGANISMS:

Macroalgae	10	36	42	8	13	1.1	0.8
Turfing Algae	0	15	0	0	0	0.2	0.3
Sponges	2	3	11	0	0	0.2	0.2
Hard Corals	1110	1374	694	1001	1100	52.8	12.2
Dead Standing Coral	5	13	0	26	0	0.4	0.5
Millepora Corals	0	0	0	0	0	0.0	0.0
Soft Corals	134	17	93	86	97	4.3	2.1
Ascidians	0	0	0	0	0	0.0	0.0

Data from five 20m intersect line transects as total cm intersects with mean % cover

Transect #	1 (cm)	2 (cm)	3 (cm)	4 (cm)	5 (cm)	mean (% cover)	std.dev. (% cover)
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SUBSTRATUM TYPE:

Coral basement	638	586	729	604	549	31.1	3.4
Coral rubble	0	0	0	0	0	0.0	0.0
Sand	0	0	0	0	0	0.0	0.0

HARD CORALS:

POCILLOPORIDAE							
<i>Seriatopora hystrix</i>	0	0	26	0	0	0.3	0.6
<i>Pocillopora</i> spp.	0	0	13	26	0	0.4	0.6
<i>Stylophora pistillata</i>	13	23	0	13	8	0.6	0.4
ACROPORIDAE							
<i>Acropora palifera</i>	39	21	44	44	6	1.5	0.8
<i>Acropora humilis</i>	0	88	0	63	94	2.5	2.3
<i>Acropora</i> staghorn	63	102	28	72	285	5.5	5.1
<i>Acropora</i> small clumps	128	165	125	119	133	6.7	0.9
<i>Acropora</i> plate	281	338	200	52	80	9.5	6.2
<i>Montipora explanate</i>	168	28	74	372	28	6.7	7.2
PORITIDAE							
<i>Goniopora/Alveopora</i> spp.	0	0	0	27	0	0.3	0.6
<i>Porites</i> massive	325	339	303	187	407	15.6	4.0
<i>Porites</i> finger	0	13	0	0	34	0.5	0.7
<i>Porites</i> lichen	0	0	0	0	0	0.0	0.0
OCULINIDAE							
<i>Galaxea</i> spp.	0	0	0	0	0	0.0	0.0
MUSSIDAE							
<i>Lobophyllia/Symphyllia</i> spp.	26	10	18	35	0	0.9	0.7
MERULINIDAE							
<i>Hydnophora/Merulina</i> spp.	0	0	0	0	0	0.0	0.0
FAVIIDAE							
<i>Favia/Favites</i> spp.	30	16	72	124	51	2.9	2.1
<i>Goniastrea</i> spp.	29	83	62	25	44	2.4	1.2
<i>Platygyra</i> spp.	79	86	53	36	10	2.6	1.6
<i>Echinopora</i> spp.	0	0	8	0	9	0.2	0.2
DENDOPHYLLIIDAE							
<i>Turbinaria</i> spp.	0	0	0	0	0	0.0	0.0
OTHER HARD CORALS	82	49	19	65	85	3.0	1.4

SOFT CORALS:

<i>Sinularia</i> spp.	24	0	21	13	38	1.0	0.7
<i>Sarcophyton</i> spp.	51	0	0	25	0	0.8	1.1
Tufty low fawn	0	0	0	9	0	0.1	0.2
<i>Rumphella aggregata</i>	19	0	98	61	5	1.8	2.1
Other soft corals	0	14	0	13	63	0.9	1.3

TOTAL COVER OF ENCRUSTING ORGANISMS:

Macroalgae	5	5	12	0	0	0.2	0.2
Turfing Algae	0	0	0	0	0	0.0	0.0
Sponges	0	26	30	0	13	0.7	0.7
Hard Corals	1263	1361	1045	1260	1274	62.0	5.8
Dead Standing Coral	0	8	65	15	58	1.5	1.5
Millepora Corals	0	0	0	0	0	0.0	0.0
Soft Corals	94	14	119	121	106	4.5	2.2
Ascidians	0	0	0	0	0	0.0	0.0

Transect #	1 (cm)	2 (cm)	3 (cm)	4 (cm)	5 (cm)	mean (% cover)	std.dev. (% cover)
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SUBSTRATUM TYPE:

Coral basement	318	318	526	831	1137	31.3	17.7
Coral rubble	0	0	0	0	0	0.0	0.0
Sand	0	0	0	0	0	0.0	0.0

HARD CORALS:

POCILLOPORIDAE							
<i>Seriatopora hystrix</i>	0	0	0	0	0	0.0	0.0
<i>Pocillopora</i> spp.	0	0	0	0	0	0.0	0.0
<i>Stylophora pistillata</i>	0	0	0	0	0	0.0	0.0
ACROPORIDAE							
<i>Acropora palifera</i>	0	0	0	14	0	0.1	0.3
<i>Acropora humilis</i>	0	0	0	32	0	0.3	0.7
<i>Acropora staghorn</i>	270	115	0	100	13	5.0	5.4
<i>Acropora</i> small clumps	37	8	66	25	55	1.9	1.2
<i>Acropora</i> plate	0	0	0	0	0	0.0	0.0
<i>Montipora explanate</i>	19	35	0	14	22	0.9	0.6
PORITIDAE							
<i>Goniopora/Alveopora</i> spp.	0	0	0	0	0	0.0	0.0
<i>Porites</i> massive	701	94	1027	703	482	30.1	17.2
<i>Porites</i> finger	320	1022	226	95	139	18.0	19.0
<i>Porites</i> lichen	0	0	0	0	0	0.0	0.0
OCULINIDAE							
<i>Galaxea</i> spp.	0	0	0	0	0	0.0	0.0
MUSSIDAE							
<i>Lobophyllia/Symphyllia</i> spp.	0	0	0	0	0	0.0	0.0
MERULINIDAE							
<i>Hydnophora/Merulina</i> spp.	0	0	0	0	0	0.0	0.0
FAVIIDAE							
<i>Favial/Favites</i> spp.	49	27	0	3	0	0.8	1.1
<i>Goniastrea</i> spp.	12	0	0	0	32	0.4	0.7
<i>Platygyra</i> spp.	15	20	0	0	0	0.4	0.5
<i>Echinopora</i> spp.	0	0	0	0	0	0.0	0.0
DENDOPHYLLIIDAE							
<i>Turbinaria</i> spp.	0	0	0	0	0	0.0	0.0
OTHER HARD CORALS	43	52	93	97	43	3.3	1.4

SOFT CORALS:

<i>Sinularia</i> spp.	22	24	0	0	13	0.6	0.6
<i>Sarcophyton</i> spp.	0	0	15	0	0	0.2	0.3
Tufty low fawn	0	25	26	0	0	0.5	0.7
<i>Rumphella aggregata</i>	5	47	4	3	30	0.9	1.0
Other soft corals	5	0	0	0	0	0.1	0.1

TOTAL COVER OF ENCRUSTING ORGANISMS:

Macroalgae	5	158	9	26	0	2.0	3.3
Turfing Algae	0	38	0	0	0	0.4	0.8
Sponges	15	3	0	12	34	0.6	0.7
Hard Corals	1466	1373	1412	1083	786	61.2	14.3
Dead Standing Coral	0	12	8	26	0	0.5	0.5
Millepora Corals	164	2	0	19	0	1.9	3.6
Soft Corals	32	96	45	3	43	2.2	1.7
Ascidians	0	0	0	0	0	0.0	0.0

ENCrustING ORGANISMS and SUBSTRATUM TYPE: NORMAN REEF; pontoon, deep; 20th June 1988

Transect #	1	2	3	4	5	mean	std.dev.
	(cm)	(cm)	(cm)	(cm)	(cm)	(% cover)	(% cover)

SUBSTRATUM TYPE:

Coral basement	499	318	614	992	969	33.9	14.8
Coral rubble	0	0	0	0	0	0.0	0.0
Sand	0	0	0	0	0	0.0	0.0

HARD CORALS:

POCILLOPORIDAE							
<i>Seriatopora hystrix</i>	41	0	0	0	0	0.4	0.9
<i>Pocillopora spp.</i>	21	6	0	0	8	0.4	0.4
<i>Stylophora pistillata</i>	0	0	0	0	3	0.0	0.1
ACROPORIDAE							
<i>Acropora palifera</i>	0	0	0	0	0	0.0	0.0
<i>Acropora humilis</i>	0	0	0	0	0	0.0	0.0
<i>Acropora staghorn</i>	234	61	0	18	0	3.1	5.0
<i>Acropora small clumps</i>	40	0	46	15	39	1.4	1.0
<i>Acropora plate</i>	0	0	0	0	0	0.0	0.0
<i>Montipora explanate</i>	30	49	4	29	57	1.7	1.0
PORITIDAE							
<i>Goniopora/Alveopora spp.</i>	8	0	0	4	0	0.1	0.2
<i>Porites massive</i>	435	44	699	534	529	22.4	12.3
<i>Porites finger</i>	458	1105	438	90	152	22.4	20.1
<i>Porites lichen</i>	0	0	0	0	0	0.0	0.0
OCULINIDAE							
<i>Galaxea spp.</i>	0	0	0	0	0	0.0	0.0
MUSSIDAE							
<i>Lobophyllia/Symphyllia spp.</i>	0	0	0	0	0	0.0	0.0
MERULINIDAE							
<i>Hydnophora/Merulina spp.</i>	0	0	0	14	0	0.1	0.3
FAVIIDAE							
<i>Favia/Favites spp.</i>	39	21	0	0	9	0.7	0.8
<i>Goniastrea spp.</i>	6	0	0	0	23	0.3	0.5
<i>Platygyra spp.</i>	11	23	0	0	8	0.4	0.5
<i>Echinopora spp.</i>	0	0	0	0	12	0.1	0.3
DENDOPHYLLIIDAE							
<i>Turbinaria spp.</i>	0	0	0	0	0	0.0	0.0
OTHER HARD CORALS	81	69	85	61	31	3.3	1.1

SOFT CORALS:

<i>Sinularia spp.</i>	18	49	0	21	13	1.0	0.9
<i>Sarcophyton spp.</i>	0	0	19	0	0	0.2	0.4
Tufty low fawn	0	0	0	6	0	0.1	0.1
<i>Rumphella aggregata</i>	0	29	6	5	43	0.8	0.9
Other soft corals	0	0	0	13	0	0.1	0.3

TOTAL COVER OF ENCRUSTING ORGANISMS:

Macroalgae	0	206	0	8	0	2.1	4.6
Turfing Algae	0	8	26	0	0	0.3	0.6
Sponges	31	0	11	16	56	1.1	1.1
Hard Corals	1404	1378	1272	765	871	56.9	14.9
Dead Standing Coral	26	12	52	148	48	2.9	2.7
Millepora Corals	22	0	0	26	0	0.5	0.7
Soft Corals	18	78	25	45	56	2.2	1.2
Ascidians	0	0	0	0	0	0.0	0.0

Data from five 20m intersect line transects as total cm intersects with mean % cover

ENCrustING ORGANISMS and SUBSTRATUM TYPE: NORMAN REEF; DSDD, shallow; 2nd July 1987

Transect #	1 (cm)	2 (cm)	3 (cm)	4 (cm)	5 (cm)	mean (% cover)	std.dev. (% cover)
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SUBSTRATUM TYPE:

Coral basement	888	758	707	621	445	34.2	8.2
Coral rubble	0	0	0	0	0	0.0	0.0
Sand	0	0	0	0	0	0.0	0.0

HARD CORALS:

POCILLOPORIDAE							
<i>Seriatopora hystrix</i>	32	0	0	0	23	0.6	0.8
<i>Pocillopora spp.</i>	63	69	15	59	21	2.3	1.3
<i>Stylophora pistillata</i>	25	0	9	7	39	0.8	0.8
ACROPORIDAE							
<i>Acropora palifera</i>	8	8	0	0	0	0.2	0.2
<i>Acropora humilis</i>	0	8	0	0	17	0.3	0.4
<i>Acropora staghorn</i>	32	0	0	0	122	1.5	2.6
<i>Acropora small clumps</i>	102	186	153	97	387	9.3	5.9
<i>Acropora plate</i>	14	0	0	58	166	2.4	3.5
<i>Montipora explanate</i>	67	200	22	125	93	5.1	3.3
PORITIDAE							
<i>Goniopora/Alveopora spp.</i>	55	63	14	17	0	1.5	1.4
<i>Porites massive</i>	187	388	302	210	76	11.6	5.9
<i>Porites finger</i>	0	0	16	12	0	0.3	0.4
<i>Porites lichen</i>	0	0	0	0	0	0.0	0.0
OCULINIDAE							
<i>Galaxea spp.</i>	0	0	8	0	0	0.1	0.2
MUSSIDAE							
<i>Lobophyllia/Symphyllia spp.</i>	12	0	8	0	0	0.2	0.3
MERULINIDAE							
<i>Hydnophora/Merulina spp.</i>	0	0	8	7	0	0.2	0.2
FAVIIDAE							
<i>Favia/Favites spp.</i>	37	37	52	27	48	2.0	0.5
<i>Goniastrea spp.</i>	0	6	36	81	46	1.7	1.6
<i>Platygyra spp.</i>	38	24	0	61	50	1.7	1.2
<i>Echinopora spp.</i>	13	0	0	0	0	0.1	0.3
DENDOPHYLLIIDAE							
<i>Turbinaria spp.</i>	0	0	176	101	0	5.5	8.0
OTHER HARD CORALS	1	48	131	4	11	2.0	2.7

SOFT CORALS:

<i>Sinularia spp.</i>	0	28	0	75	59	1.6	1.7
<i>Sarcophyton spp.</i>	73	31	52	98	7	2.6	1.8
Tufty low fawn	35	45	47	57	21	2.1	0.7
<i>Rumphella aggregata</i>	90	8	12	0	10	1.2	1.9
Other soft corals	75	8	112	24	93	3.1	2.2

TOTAL COVER OF ENCRUSTING ORGANISMS:

Macroalgae	61	5	22	3	20	1.1	1.2
Turfing Algae	0	0	0	0	35	0.4	0.8
Sponges	46	8	23	0	0	0.8	1.0
Hard Corals	686	1037	950	866	1099	46.4	8.1
Dead Standing Coral	0	72	75	107	184	4.4	3.3
Millepora Corals	46	0	0	141	27	2.1	2.9
Soft Corals	273	120	223	254	190	10.6	3.0
Ascidians	0	0	0	8	0	0.1	0.2

Data from five 20m intersect line transects as total cm intersects with mean % cover

Transect #	1 (cm)	2 (cm)	3 (cm)	4 (cm)	5 (cm)	mean (% cover)	std.dev. (% cover)
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SUBSTRATUM TYPE:

Coral basement	847	686	881	695	340	34.5	10.7
Coral rubble	0	0	0	0	0	0.0	0.0
Sand	0	0	0	0	0	0.0	0.0

HARD CORALS:

POCILLOPORIDAE							
<i>Seriatopora hystrix</i>	11	11	0	16	16	0.5	0.3
<i>Pocillopora spp.</i>	15	78	62	72	20	2.5	1.5
<i>Stylophora pistillata</i>	55	0	7	30	20	1.1	1.1
ACROPORIDAE							
<i>Acropora palifera</i>	7	20	0	0	0	0.3	0.4
<i>Acropora humilis</i>	23	7	0	0	6	0.4	0.5
<i>Acropora staghorn</i>	22	8	0	53	182	2.7	3.7
<i>Acropora small clumps</i>	90	162	83	150	401	8.9	6.5
<i>Acropora plate</i>	0	16	26	21	271	3.3	5.7
<i>Montipora explanate</i>	114	256	17	152	137	6.8	4.3
PORITIDAE							
<i>Goniopora/Alveopora spp.</i>	51	92	15	16	0	1.7	1.9
<i>Porites massive</i>	218	260	351	127	73	10.3	5.5
<i>Porites finger</i>	0	0	21	9	7	0.4	0.4
<i>Porites lichen</i>	0	0	0	0	0	0.0	0.0
OCULINIDAE							
<i>Galaxea spp.</i>	0	0	0	0	0	0.0	0.0
MUSSIDAE							
<i>Lobophyllia/Symphyllia spp.</i>	0	0	0	0	0	0.0	0.0
MERULINIDAE							
<i>Hydnophora/Merulina spp.</i>	0	0	11	0	0	0.1	0.2
FAVIIDAE							
<i>Favial/Favites spp.</i>	29	42	40	15	59	1.9	0.8
<i>Goniastrea spp.</i>	8	8	34	46	42	1.4	0.9
<i>Platygyra spp.</i>	12	4	0	67	46	1.3	1.5
<i>Echinopora spp.</i>	24	0	0	0	0	0.2	0.5
DENDOPHYLLIIDAE							
<i>Turbinaria spp.</i>	0	0	179	79	0	5.2	7.9
OTHER HARD CORALS	123	71	28	4	5	2.3	2.5

SOFT CORALS:

<i>Sinularia spp.</i>	64	85	56	114	126	4.5	1.5
<i>Sarcophyton spp.</i>	52	22	53	78	39	2.4	1.0
Tufty low fawn	37	69	30	55	11	2.0	1.1
<i>Rumphella aggregata</i>	58	19	12	12	22	1.2	1.0
Other soft corals	7	37	0	0	8	0.5	0.8

TOTAL COVER OF ENCRUSTING ORGANISMS:

Macroalgae	8	7	20	6	35	0.8	0.6
Turfing Algae	57	0	50	14	69	1.9	1.5
Sponges	51	0	11	36	13	1.1	1.0
Hard Corals	802	1035	874	857	1285	48.5	9.8
Dead Standing Coral	0	40	13	0	26	0.8	0.9
Millepora Corals	17	0	0	133	26	1.8	2.8
Soft Corals	218	232	151	259	206	10.7	2.0
Ascidians	0	0	0	0	0	0.0	0.0

Data from five 20m intersect line transects as total cm intersects with mean % cover

Transect #	1 (cm)	2 (cm)	3 (cm)	4 (cm)	5 (cm)	mean (% cover)	std.dev. (% cover)
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SUBSTRATUM TYPE:

Coral basement	589	729	582	681	888	34.7	6.3
Coral rubble	0	0	0	0	0	0.0	0.0
Sand	0	0	0	0	0	0.0	0.0

HARD CORALS:

POCILLOPORIDAE							
<i>Seriatopora hystrix</i>	19	0	35	37	16	1.1	0.8
<i>Pocillopora</i> spp.	0	0	0	0	0	0.0	0.0
<i>Stylophora pistillata</i>	17	15	53	20	30	1.4	0.8
ACROPORIDAE							
<i>Acropora palifera</i>	0	8	0	36	0	0.4	0.8
<i>Acropora humilis</i>	0	0	0	15	0	0.2	0.3
<i>Acropora staghorn</i>	0	13	0	0	115	1.3	2.5
<i>Acropora</i> small clumps	264	187	216	159	118	9.4	2.8
<i>Acropora</i> plate	0	0	0	26	0	0.3	0.6
<i>Montipora explanate</i>	56	75	204	137	100	5.7	2.9
PORITIDAE							
<i>Goniopora/Alveopora</i> spp.	0	0	0	0	26	0.3	0.6
<i>Porites</i> massive	111	216	195	268	52	8.4	4.3
<i>Porites</i> finger	528	324	260	132	351	16.0	7.2
<i>Porites</i> lichen	0	0	0	0	7	0.1	0.2
OCULINIDAE							
<i>Galaxea</i> spp.	0	0	4	0	12	0.2	0.3
MUSSIDAE							
<i>Lobophyllia/Symphyllia</i> spp.	0	37	0	0	0	0.4	0.8
MERULINIDAE							
<i>Hydnophora/Merulina</i> spp.	0	0	0	13	0	0.1	0.3
FAVIIDAE							
<i>Favia/Favites</i> spp.	53	29	61	69	40	2.5	0.8
<i>Goniastrea</i> spp.	52	8	40	8	51	1.6	1.1
<i>Platygyra</i> spp.	36	24	51	41	3	1.6	0.9
<i>Echinopora</i> spp.	0	0	8	97	0	1.1	2.1
DENDOPHYLLIIDAE							
<i>Turbinaria</i> spp.	0	0	0	0	0	0.0	0.0
OTHER HARD CORALS	37	67	100	141	78	4.2	1.9

SOFT CORALS:

<i>Sinularia</i> spp.	22	6	11	11	0	0.5	0.4
<i>Sarcophyton</i> spp.	22	0	10	43	0	0.8	0.9
Tufty low fawn	0	61	13	0	6	0.8	1.3
<i>Rumphella aggregata</i>	0	5	0	0	0	0.1	0.1
Other soft corals	42	63	35	11	35	1.9	0.9

TOTAL COVER OF ENCRUSTING ORGANISMS:

Macroalgae	12	0	7	4	0	0.2	0.3
Turfing Algae	0	26	0	0	0	0.3	0.6
Sponges	75	58	57	28	42	2.6	0.9
Hard Corals	1173	1003	1227	1199	999	56.0	5.5
Dead Standing Coral	61	49	56	23	30	2.2	0.8
Millepora Corals	0	0	0	0	0	0.0	0.0
Soft Corals	86	135	69	65	41	4.0	1.8
Ascidians	4	0	2	0	0	0.1	0.1

Data from five 20m intersect line transects as total cm intersects with mean % cover

ENCrustING ORGANISMS and SUBSTRATUM TYPE: NORMAN REEF; DSDD, deep; 17th June 1988

Transect #	1 (cm)	2 (cm)	3 (cm)	4 (cm)	5 (cm)	mean (% cover)	std.dev. (% cover)
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SUBSTRATUM TYPE:

Coral basement	525	556	643	513	611	28.5	2.8
Coral rubble	30	0	0	30	0	0.6	0.8
Sand	0	0	0	0	0	0.0	0.0

HARD CORALS:

POCILLOPORIDAE							
<i>Seriatopora hystrix</i>	9	60	22	25	39	1.6	1.0
<i>Pocillopora spp.</i>	0	0	0	0	0	0.0	0.0
<i>Stylophora pistillata</i>	27	6	44	55	46	1.8	1.0
ACROPORIDAE							
<i>Acropora palifera</i>	0	8	0	0	0	0.1	0.2
<i>Acropora humilis</i>	0	0	0	14	0	0.1	0.3
<i>Acropora staghorn</i>	3	8	0	12	181	2.0	3.9
<i>Acropora small clumps</i>	374	299	228	230	177	13.1	3.8
<i>Acropora plate</i>	0	0	0	37	0	0.4	0.8
<i>Montipora explanate</i>	82	73	229	169	60	6.1	3.7
PORITIDAE							
<i>Goniopora/Alveopora spp.</i>	0	0	0	0	24	0.2	0.5
<i>Porites massive</i>	104	160	162	252	81	7.6	3.3
<i>Porites finger</i>	522	368	250	119	352	16.1	7.5
<i>Porites lichen</i>	0	0	0	0	8	0.1	0.2
OCULINIDAE							
<i>Galaxea spp.</i>	0	12	5	0	20	0.4	0.4
MUSSIDAE							
<i>Lobophyllia/Symphyllia spp.</i>	14	32	0	4	0	0.5	0.7
MERULINIDAE							
<i>Hydnophora/Merulina spp.</i>	0	0	0	0	0	0.0	0.0
FAVIIDAE							
<i>Favia/Favites spp.</i>	45	13	64	64	45	2.3	1.0
<i>Goniastrea spp.</i>	43	31	39	38	66	2.2	0.7
<i>Platygyra spp.</i>	23	28	16	11	0	0.8	0.5
<i>Echinopora spp.</i>	0	0	10	99	0	1.1	2.2
DENDOPHYLLIIDAE							
<i>Turbinaria spp.</i>	0	0	0	8	0	0.2	0.4
OTHER HARD CORALS	44	70	79	135	140	4.7	2.1

SOFT CORALS:

<i>Sinularia spp.</i>	63	69	37	41	96	3.1	1.2
<i>Sarcophyton spp.</i>	24	0	12	10	0	0.5	0.5
Tufty low fawn	0	20	12	0	0	0.3	0.5
<i>Rumphella aggregata</i>	7	0	6	0	0	0.1	0.2
Other soft corals	0	6	8	0	0	0.1	0.2

TOTAL COVER OF ENCRUSTING ORGANISMS:

Macroalgae	6	8	16	8	10	0.5	0.2
Turfing Algae	18	133	15	71	12	2.5	2.6
Sponges	37	28	47	35	7	1.5	0.7
Hard Corals	1290	1168	1148	1272	1239	61.2	3.1
Dead Standing Coral	0	0	30	20	25	0.8	0.7
Millepora Corals	0	12	26	0	0	0.4	0.6
Soft Corals	94	95	75	51	96	4.1	1.0
Ascidians	0	0	0	0	0	0.0	0.0

Data from five 20m intersect line transects as total cm intersects with mean % cover

ENCrustING ORGANISMS and SUBSTRATUM TYPE: NORMAN REEF; control, shallow; 16th July 1987

Transect #	1 (cm)	2 (cm)	3 (cm)	4 (cm)	5 (cm)	mean (% cover)	std.dev. (% cover)
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SUBSTRATUM TYPE:

Coral basement	1451	1078	602	482	863	44.8	19.4
Coral rubble	0	0	0	0	0	0.0	0.0
Sand	0	0	0	0	0	0.0	0.0

HARD CORALS:

POCILLOPORIDAE							
<i>Seriatopora hystrix</i>	0	0	13	0	0	0.1	0.3
<i>Pocillopora spp.</i>	29	12	0	0	7	0.5	0.6
<i>Stylophora pistillata</i>	19	0	35	0	15	0.7	0.7
ACROPORIDAE							
<i>Acropora palifera</i>	0	0	0	0	0	0.0	0.0
<i>Acropora humilis</i>	53	110	31	205	0	4.0	4.0
<i>Acropora staghorn</i>	26	97	0	237	40	4.0	4.7
<i>Acropora small clumps</i>	44	98	63	125	212	5.4	3.3
<i>Acropora plate</i>	56	244	227	517	140	11.8	8.7
<i>Montipora explanate</i>	35	93	53	18	28	2.3	1.5
PORITIDAE							
<i>Goniopora/Alveopora spp.</i>	8	0	0	0	0	0.1	0.2
<i>Porites massive</i>	40	22	141	139	434	7.8	8.3
<i>Porites finger</i>	0	0	386	0	30	4.2	8.5
<i>Porites lichen</i>	0	0	0	0	0	0.0	0.0
OCULINIDAE							
<i>Galaxea spp.</i>	0	3	4	0	0	0.1	0.1
MUSSIDAE							
<i>Lobophyllia/Symphyllia spp.</i>	6	0	7	12	0	0.3	0.3
MERULINIDAE							
<i>Hydnophora/Merulina spp.</i>	0	0	0	0	0	0.0	0.0
FAVIIDAE							
<i>Favia/Favites spp.</i>	12	0	43	56	28	1.4	1.1
<i>Goniastrea spp.</i>	16	13	72	7	6	1.1	1.4
<i>Platygyra spp.</i>	7	0	54	22	12	1.0	1.1
<i>Echinopora spp.</i>	0	0	0	0	0	0.0	0.0
DENDOPHYLLIIDAE							
<i>Turbinaria spp.</i>	0	0	0	0	0	0.0	0.0
OTHER HARD CORALS	29	2	20	4	11	0.7	0.6

SOFT CORALS:

<i>Sinularia spp.</i>	37	81	64	40	8	2.3	1.4
<i>Sarcophyton spp.</i>	28	8	45	51	0	1.3	1.1
Tufty low fawn	0	13	21	42	6	0.8	0.8
<i>Rumphella aggregata</i>	0	12	22	0	12	0.5	0.5
Other soft corals	5	0	0	0	46	0.5	1.0

TOTAL COVER OF ENCRUSTING ORGANISMS:

Macroalgae	34	87	27	11	17	1.8	1.5
Turfing Algae	0	0	0	0	0	0.0	0.0
Sponges	0	0	34	0	48	0.8	1.1
Hard Corals	380	694	1149	1342	963	45.3	18.9
Dead Standing Coral	65	27	36	32	37	2.0	0.7
Millepora Corals	0	0	0	0	0	0.0	0.0
Soft Corals	70	114	152	133	72	5.4	1.8
Ascidians	0	0	0	0	0	0.0	0.0

Data from five 20m intersect line transects as total cm intersects with mean % cover

ENCrustING ORGANISMS and SUBSTRATUM TYPE: NORMAN REEF; control, shallow; 19th June 1988

Transect #	1 (cm)	2 (cm)	3 (cm)	4 (cm)	5 (cm)	mean (% cover)	std.dev. (% cover)
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SUBSTRATUM TYPE:

Coral basement	1522	1089	465	382	626	40.8	24.0
Coral rubble	0	0	0	0	0	0.0	0.0
Sand	0	0	0	0	0	0.0	0.0

HARD CORALS:

POCILLOPORIDAE							
<i>Seriatopora hystrix</i>	0	0	40	0	0	0.4	0.9
<i>Pocillopora spp.</i>	49	29	7	0	0	0.9	1.1
<i>Stylophora pistillata</i>	21	0	28	0	13	0.6	0.6
ACROPORIDAE							
<i>Acropora palifera</i>	0	0	12	0	0	0.1	0.3
<i>Acropora humilis</i>	40	141	27	132	0	3.4	3.2
<i>Acropora staghorn</i>	17	192	0	181	98	4.9	4.5
<i>Acropora small clumps</i>	64	76	115	195	270	7.2	4.4
<i>Acropora plate</i>	6	220	274	579	156	12.4	10.5
<i>Montipora explanate</i>	72	91	51	54	28	3.0	1.2
PORITIDAE							
<i>Goniopora/Alveopora spp.</i>	17	0	0	0	0	0.2	0.4
<i>Porites massive</i>	53	33	152	172	468	8.8	8.7
<i>Porites finger</i>	0	0	381	10	34	4.3	8.3
<i>Porites lichen</i>	0	0	0	0	0	0.0	0.0
OCULINIDAE							
<i>Galaxea spp.</i>	0	0	0	0	0	0.0	0.0
MUSSIDAE							
<i>Lobophyllia/Symphyllia spp.</i>	7	0	0	13	0	0.2	0.3
MERULINIDAE							
<i>Hydnophora/Merulina spp.</i>	0	14	0	0	0	0.1	0.3
FAVIIDAE							
<i>Favia/Favites spp.</i>	11	0	66	57	21	1.6	1.4
<i>Goniastrea spp.</i>	23	0	62	12	32	1.3	1.2
<i>Platygyra spp.</i>	0	0	73	10	15	1.0	1.5
<i>Echinopora spp.</i>	0	0	13	0	0	0.1	0.3
DENDOPHYLLIIDAE							
<i>Turbinaria spp.</i>	0	0	0	0	0	0.0	0.0
OTHER HARD CORALS	32	2	19	4	5	0.6	0.6

SOFT CORALS:

<i>Sinularia spp.</i>	0	28	70	44	70	2.1	1.5
<i>Sarcophyton spp.</i>	32	17	71	58	0	1.8	1.5
Tufty low fawn	0	14	13	27	24	0.8	0.5
<i>Rumphella aggregata</i>	0	0	22	0	13	0.4	0.5
Other soft corals	0	0	0	47	13	0.6	1.0

TOTAL COVER OF ENCRUSTING ORGANISMS:

Macroalgae	18	22	20	6	4	0.7	0.4
Turfing Algae	16	12	0	17	0	0.5	0.4
Sponges	0	0	19	0	110	1.3	2.4
Hard Corals	412	798	1320	1419	1140	50.9	20.7
Dead Standing Coral	0	12	0	0	0	0.1	0.3
Millepora Corals	0	8	0	0	0	0.1	0.2
Soft Corals	32	59	176	176	120	5.6	3.3
Ascidians	0	0	0	0	0	0.0	0.0

Data from five 20m intersect line transects as total cm intersects with mean % cover

ENCrustING ORGANISMS and SUBSTRATUM TYPE: NORMAN REEF; control, deep; 3rd July 1987

Transect #	1 (cm)	2 (cm)	3 (cm)	4 (cm)	5 (cm)	mean (% cover)	std.dev. (% cover)
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SUBSTRATUM TYPE:

Coral basement	500	851	731	1025	917	40.2	10.0
Coral rubble	0	0	0	0	0	0.0	0.0
Sand	0	0	0	0	0	0.0	0.0

HARD CORALS:

POCILLOPORIDAE							
<i>Seriatopora hystrix</i>	12	5	7	6	31	0.6	0.5
<i>Pocillopora spp.</i>	12	0	0	0	7	0.2	0.3
<i>Stylophora pistillata</i>	0	0	0	0	0	0.0	0.0
ACROPORIDAE							
<i>Acropora palifera</i>	0	0	0	0	0	0.0	0.0
<i>Acropora humilis</i>	0	0	0	0	0	0.0	0.0
<i>Acropora staghorn</i>	10	18	0	0	0	0.3	0.4
<i>Acropora small clumps</i>	155	99	220	57	14	5.5	4.1
<i>Acropora plate</i>	0	0	0	0	0	0.0	0.0
<i>Montipora explanate</i>	35	82	15	0	25	1.6	1.6
PORITIDAE							
<i>Goniopora/Alveopora spp.</i>	0	0	0	20	0	0.2	0.4
<i>Porites massive</i>	178	123	154	484	338	12.8	7.6
<i>Porites finger</i>	564	342	482	11	274	16.7	10.7
<i>Porites lichen</i>	0	0	0	0	0	0.0	0.0
OCULINIDAE							
<i>Galaxea spp.</i>	6	0	0	0	4	0.1	0.1
MUSSIDAE							
<i>Lobophyllia/Symphyllia spp.</i>	0	0	0	0	0	0.0	0.0
MERULINIDAE							
<i>Hydnophora/Merulina spp.</i>	12	8	0	0	5	0.3	0.3
FAVIIDAE							
<i>Favia/Favites spp.</i>	25	10	11	0	40	0.9	0.8
<i>Goniastrea spp.</i>	71	26	0	7	5	1.1	1.5
<i>Platygyra spp.</i>	8	12	7	0	0	0.3	0.3
<i>Echinopora spp.</i>	33	11	0	13	36	0.9	0.8
DENDOPHYLLIIDAE							
<i>Turbinaria spp.</i>	0	0	0	0	0	0.0	0.0
OTHER HARD CORALS	69	40	9	55	48	2.2	1.1

SOFT CORALS:

<i>Sinularia spp.</i>	36	6	0	0	0	0.4	0.8
<i>Sarcophyton spp.</i>	0	0	8	0	8	0.2	0.2
Tufty low fawn	0	44	6	0	0	0.5	1.0
<i>Rumphella aggregata</i>	0	0	4	0	0	0.0	0.1
Other soft corals	60	148	28	18	18	2.7	2.8

TOTAL COVER OF ENCRUSTING ORGANISMS:

Macroalgae	0	27	51	5	11	0.9	1.0
Turfing Algae	0	100	50	35	0	1.9	2.1
Sponges	55	13	29	119	59	2.8	2.0
Hard Corals	1190	776	905	653	827	43.5	10.0
Dead Standing Coral	123	7	62	97	98	3.9	2.2
Millepora Corals	36	28	126	48	49	2.9	2.0
Soft Corals	96	198	46	18	26	3.8	3.7
Ascidians	0	0	0	0	13	0.1	0.3

Data from five 20m intersect line transects as total cm intersects with mean % cover

ENCrustING ORGANISMS and SUBSTRATUM TYPE: NORMAN REEF; control, deep; 19th June 1988

Transect #	1	2	3	4	5	mean	std.dev.
	(cm)	(cm)	(cm)	(cm)	(cm)	(% cover)	(% cover)

SUBSTRATUM TYPE:

Coral basement	375	684	574	963	956	35.5	12.6
Coral rubble	0	0	0	0	0	0.0	0.0
Sand	0	0	0	0	0	0.0	0.0

HARD CORALS:

POCILLOPORIDAE							
<i>Seriatopora hystrix</i>	0	16	33	0	0	0.5	0.7
<i>Pocillopora spp.</i>	9	0	8	0	13	0.3	0.3
<i>Stylophora pistillata</i>	0	39	10	5	0	0.5	0.8
ACROPORIDAE							
<i>Acropora palifera</i>	0	0	0	0	0	0.0	0.0
<i>Acropora humilis</i>	0	0	0	0	0	0.0	0.0
<i>Acropora staghorn</i>	33	63	0	0	0	1.0	1.4
<i>Acropora small clumps</i>	188	108	230	62	34	6.2	4.1
<i>Acropora plate</i>	0	0	0	0	13	0.1	0.3
<i>Montipora explanate</i>	80	85	44	6	0	2.2	2.0
PORITIDAE							
<i>Goniopora/Alveopora spp.</i>	0	0	0	23	0	0.2	0.5
<i>Porites massive</i>	137	140	167	457	333	12.3	7.1
<i>Porites finger</i>	594	353	513	33	337	18.3	10.8
<i>Porites lichen</i>	0	0	0	0	0	0.0	0.0
OCULINIDAE							
<i>Galaxea spp.</i>	0	0	9	0	4	0.1	0.2
MUSSIDAE							
<i>Lobophyllia/Symphyllia spp.</i>	0	18	0	0	0	0.2	0.4
MERULINIDAE							
<i>Hydnophora/Merulina spp.</i>	0	8	0	0	0	0.1	0.2
FAVIIDAE							
<i>Favia/Favites spp.</i>	40	7	6	0	14	0.7	0.8
<i>Goniastrea spp.</i>	98	23	5	0	6	1.3	2.0
<i>Platygyra spp.</i>	8	20	19	8	0	0.6	0.4
<i>Echinopora spp.</i>	32	21	0	42	29	1.2	0.8
DENDOPHYLLIIDAE							
<i>Turbinaria spp.</i>	0	0	0	0	0	0.0	0.0
OTHER HARD CORALS	130	53	40	62	51	3.4	1.8

SOFT CORALS:

<i>Sinularia spp.</i>	176	193	27	8	8	4.1	4.7
<i>Sarcophyton spp.</i>	0	0	8	0	13	0.2	0.3
Tufty low fawn	0	27	0	7	0	0.3	0.6
<i>Rumphella aggregata</i>	0	8	0	0	0	0.1	0.2
Other soft corals	0	0	0	0	0	0.0	0.0

TOTAL COVER OF ENCRUSTING ORGANISMS:

Macroalgae	14	22	18	4	11	0.7	0.3
Turfing Algae	0	36	61	231	6	3.3	4.8
Sponges	50	29	40	61	33	2.1	0.7
Hard Corals	1349	954	1084	698	834	49.2	12.5
Dead Standing Coral	0	0	12	0	34	0.5	0.7
Millepora Corals	36	47	174	24	105	3.9	3.1
Soft Corals	176	228	35	15	21	4.8	5.0
Ascidians	0	0	2	4	0	0.1	0.1

Data from five 20m intersect line transects as total cm intersects with mean % cover

Transect #	1 (cm)	2 (cm)	3 (cm)	4 (cm)	5 (cm)	mean (% cover)	std.dev. (% cover)
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SUBSTRATUM TYPE:

Coral basement	926	948	906	725	541	40.5	8.7
Coral rubble	0	0	0	0	0	0.0	0.0
Sand	0	0	0	0	0	0.0	0.0

HARD CORALS:

POCILLOPORIDAE							
<i>Seriatopora hystrix</i>	0	0	0	0	0	0.0	0.0
<i>Pocillopora spp.</i>	78	93	61	55	13	3.0	1.5
<i>Stylophora pistillata</i>	0	16	20	0	9	0.5	0.5
ACROPORIDAE							
<i>Acropora palifera</i>	0	24	13	14	35	0.9	0.7
<i>Acropora humilis</i>	69	158	220	302	316	10.7	5.1
<i>Acropora staghorn</i>	171	157	14	127	161	6.3	3.2
<i>Acropora small clumps</i>	111	208	142	98	66	6.3	2.7
<i>Acropora plate</i>	637	164	118	479	556	19.5	11.8
<i>Montipora explanate</i>	0	47	18	0	28	0.9	1.0
PORITIDAE							
<i>Goniopora/Alveopora spp.</i>	0	0	0	0	0	0.0	0.0
<i>Porites massive</i>	0	11	102	68	7	1.9	2.3
<i>Porites finger</i>	0	0	0	0	0	0.0	0.0
<i>Porites lichen</i>	0	0	0	0	0	0.0	0.0
OCULINIDAE							
<i>Galaxea spp.</i>	0	0	5	0	0	0.1	0.1
MUSSIDAE							
<i>Lobophyllia/Symphyllia spp.</i>	0	8	16	0	0	0.2	0.4
MERULINIDAE							
<i>Hydnophora/Merulina spp.</i>	0	0	0	0	0	0.0	0.0
FAVIIDAE							
<i>Favia/Favites spp.</i>	0	32	11	19	40	1.0	0.8
<i>Goniastrea spp.</i>	0	16	0	15	34	0.7	0.7
<i>Platygyra spp.</i>	0	14	15	10	0	0.4	0.4
<i>Echinopora spp.</i>	0	31	0	0	8	0.4	0.7
DENDOPHYLLIIDAE							
<i>Turbinaria spp.</i>	0	0	0	0	0	0.0	0.0
OTHER HARD CORALS	1	2	23	29	5	0.6	0.7

SOFT CORALS:

<i>Sinularia spp.</i>	0	40	143	0	28	2.1	3.0
<i>Sarcophyton spp.</i>	0	15	36	0	0	0.5	0.8
Tufty low fawn	0	0	0	8	0	0.1	0.2
<i>Rumphella aggregata</i>	0	0	112	14	8	1.3	2.4
Other soft corals	0	0	0	0	0	0.0	0.0

TOTAL COVER OF ENCRUSTING ORGANISMS:

Macroalgae	7	8	25	6	29	0.8	0.6
Turfing Algae	0	0	0	0	0	0.0	0.0
Sponges	0	0	0	0	0	0.0	0.0
Hard Corals	1067	981	778	1216	1278	53.2	9.9
Dead Standing Coral	0	8	0	31	116	1.6	2.5
Millepora Corals	0	0	0	0	0	0.0	0.0
Soft Corals	0	55	291	22	36	4.0	6.0
Ascidians	0	0	0	0	0	0.0	0.0

Data from five 20m intersect line transects as total cm intersects with mean % cover

ENCrustING ORGANISMS and SUBSTRATUM TYPE: NORMAN REEF; semi-sub, shallow; 19th June 1988

Transect #	1 (cm)	2 (cm)	3 (cm)	4 (cm)	5 (cm)	mean (% cover)	std.dev. (% cover)
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SUBSTRATUM TYPE:

Coral basement	634	743	717	538	527	31.6	5.0
Coral rubble	0	0	0	0	0	0.0	0.0
Sand	0	0	0	0	0	0.0	0.0

HARD CORALS:

POCILLOPORIDAE							
<i>Seriatopora hystrix</i>	0	0	0	0	6	0.1	0.1
<i>Pocillopora spp.</i>	53	139	66	41	7	3.1	2.4
<i>Stylophora pistillata</i>	0	16	8	0	0	0.2	0.4
ACROPORIDAE							
<i>Acropora palifera</i>	0	46	50	14	21	1.3	1.1
<i>Acropora humilis</i>	140	195	304	310	235	11.8	3.6
<i>Acropora staghorn</i>	286	179	15	102	287	8.7	5.9
<i>Acropora small clumps</i>	59	183	220	113	79	6.5	3.4
<i>Acropora plate</i>	827	237	164	658	667	25.5	14.6
<i>Montipora explanate</i>	0	37	26	54	47	1.6	1.1
PORITIDAE							
<i>Goniopora/Alveopora spp.</i>	0	0	0	0	0	0.0	0.0
<i>Porites massive</i>	0	40	91	61	6	2.0	1.9
<i>Porites finger</i>	0	0	0	0	0	0.0	0.0
<i>Porites lichen</i>	0	0	0	0	0	0.0	0.0
OCULINIDAE							
<i>Galaxea spp.</i>	0	0	0	0	0	0.0	0.0
MUSSIDAE							
<i>Lobophyllia/Symphyllia spp.</i>	0	0	8	0	0	0.1	0.2
MERULINIDAE							
<i>Hydnophora/Merulina spp.</i>	0	0	0	0	0	0.0	0.0
FAVIIDAE							
<i>Favia/Favites spp.</i>	0	33	12	28	23	1.0	0.7
<i>Goniastrea spp.</i>	0	17	7	24	18	0.7	0.5
<i>Platygyra spp.</i>	0	13	6	0	31	0.5	0.6
<i>Echinopora spp.</i>	0	27	0	0	0	0.3	0.6
DENDOPHYLLIIDAE							
<i>Turbinaria spp.</i>	0	0	0	0	0	0.0	0.0
OTHER HARD CORALS	1	14	11	20	5	0.5	0.4

SOFT CORALS:

<i>Sinularia spp.</i>	0	17	61	0	17	1.0	1.2
<i>Sarcophyton spp.</i>	0	0	40	0	0	0.4	0.9
Tufty low fawn	0	0	56	3	0	0.6	1.2
<i>Rumphella aggregata</i>	0	14	85	13	0	1.1	1.8
Other soft corals	0	0	0	0	0	0.0	0.0

TOTAL COVER OF ENCRUSTING ORGANISMS:

Macroalgae	0	32	18	0	24	0.7	0.7
Turfing Algae	0	0	0	0	0	0.0	0.0
Sponges	0	0	0	3	0	0.0	0.1
Hard Corals	1366	1176	988	1425	1432	63.9	9.6
Dead Standing Coral	0	0	0	18	0	0.2	0.4
Millepora Corals	0	18	35	0	0	0.5	0.8
Soft Corals	0	31	242	16	17	3.1	5.1
Ascidians	0	0	0	0	0	0.0	0.0

Data from five 20m intersect line transects as total cm intersects with mean % cover