



Mean Percent Benthic Cover for Reef Sites Surveyed in the Northeast Lagoon (Touho to Ponérihouen)

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Annexe 4/Appendix 4

Recouvrement benthique moyen (exprimé en pourcentage) des sites récifaux étudiés dans le lagon nord-est (Touho à Ponérihouen)

Mean percent benthic cover for reef sites surveyed in the northeast lagoon (Touho to Ponérihouen)

Le nombre de tronçons de 20m examinés (n) le long de chaque transect de 100m d'une profondeur (7m <peu profonde, moyenne 7 - 10m et profonde 12m et plus), le biote/substrats ont été classés selon les catégories suivantes: Coraux durs (HC), Coraux mous (SC), Eponge (SP), Macro algues (MA), Algues gazonnantes (TA), Algues calcaires (CA), Cyanobactéries (Cyano), Débris rocheux (RB), Sable (SD), Silt : *vase*. La catégorie autre représente des invertébrés tels que des échinodermes, des tuniciers etc. Le pourcentage moyen est donné avec son erreur standard entre parenthèses.

The number of 20m transects surveyed (n) along each 100m transect at depth (shallow \leq 7m, medium 7 – 10m and deep 12m plus), biota/substrata were categorized as: Hard Coral (HC), Soft Coral (SC), Sponge (SP), Macro Algae (MA), Turf Algae (TA), Calcareous Algae (CA), Cyanobacteria (Cyano), Rubble (RB), Sand (SD). Other category represents invertebrates such as echinoderms, tunicates etc. Percent mean is given with standard error below in parentheses.

site	n	depth	HC	SC	DC	SP	MA	TA	CA	Cyano	RB	SD	Other	Silt
1	3	deep	50.8 (4.4)	19.2 (6.0)	0	0	0	0	30.0 (5.0)	0	0	0	0	0
2	4	deep	58.1 (1.6)	5 (2.0)	0.6 (0.6)	0	0	21.9 (3.1)	13.7 3.0	0.6 (0.6)	0	0	0	0
3	4	shallow	33.1 (4.3)	3.1 (1.9)	0	0	0	14.4 (1.6)	13.1 (5.0)	0	11.9 (2.8)	20 (5.7)	0.6 (0.6)	0
4	4	medium	31.2 (4.4)	6.9 (2.1)	0	0	0.6 (0.6)	40 (5.1)	3.1 (1.2)	1.9 (1.2)	11.9 (8.6)	3.7 (1.2)	0	0
5	7	shallow	33.6 (5.1)	16.1 (3.9)	0	0	0	18.5 (3.1)	17.5 (3.9)	0.7 (0.7)	8.2 (2.0)	5.3 (1.1)	0	0
6	4	shallow	43.7 (9.2)	0	0	0.6 (0.6)	1.9 (1.9)	23.7 (8.0)	1.2 (1.2)	0	1.2 (1.2)	19.4 (8.2)	0	0
7	4	shallow	16.9 (2.1)	0.6 (0.6)	0	0	0	36 (4.1)	5 (2.3)	11.2 (3.9)	15 (3.9)	15 (4.7)	0	0
8	4	medium	28.1 (4.5)	1.2 (0.7)	0	4.4 (2.1)	0	34.4 (1.2)	2.5 (1.0)	0	14.4 (4.4)	14.4 (3.6)	0	0
9	4	deep	66.9 (2.1)	1.9 (1.2)	0	0	0	19.4 (1.9)	1.9 (1.9)	0	6.2 (4.7)	3.7 (1.6)	0	0
9	4	medium	56.9 (7.1)	8.1 (4.1)	0	0	0	14.4 (2.8)	6.2 (1.6)	0	9.4 (2.8)	4.4 (2.8)	0.6 (0.6)	0
10	4	deep	50 (5.3)	11 (3.1)	0	3.7 (0.7)	3.1 (1.2)	17.5 (3.2)	7.5 (2.5)	0	3.1 (0.6)	3.7 (3.0)	0	0
10	4	shallow	48.1 (2.6)	27.5 (2.7)	0	0	0	5.6 (1.6)	17.5 (2.7)	0	0	0.6 (0.6)	0.6 (0.6)	0
11	4	shallow	22.5 (7.1)	7.5 (2.7)	0.6 (0.6)	0	0.6 (0.6)	22 (3.7)	10.6 (2.8)	0	24.4 (8.6)	11.2 (4.4)	0.6 (0.6)	0
12	4	shallow	35 (5.7)	1.9 (1.2)	0	1.9 (1.2)	16.2 (6.2)	22 (3.3)	1.2 (0.7)	0	0.6 (0.6)	21.2 (6.6)	0	0

site	n	depth	HC	SC	DC	SP	MA	TA	CA	Cyano	RB	SD	Other	Silt
13	4	shallow	11.9 (4.4)	0.6 (0.6)	0	0.6 (0.6)	35 (9.3)	11.9 (4.7)	0	0	6.9 (6.9)	33.1 (9.3)	0	0
15	4	shallow	29.4 (2.8)	0	0	0	38.7 (5.5)	1.9 (1.2)	0	0	6.9 (3.1)	22.5 (4.6)	0.6 (0.6)	0
16	4	shallow	26.2 (10.3)	0	0	0	11.2 (6.3)	11.2 (3.9)	0	0	18.1 (3.3)	33.1 (16.5)	0	0
17	4	deep	51.9 (9.3)	2.5 (1.8)	0	0	0.6 (0.6)	16.2 (7.2)	0	0	18.7 (5.2)	10 (2.7)	0	0
17	4	shallow	50.6 (5.1)	0	0	3.7 (3.7)	0	11.2 (2.4)	6.2 (2.2)	0	18.1 (4.9)	10 (2.5)	0	0
18	4	shallow	42.5 (13.1)	13.7 (11.3)	0	1.9 (1.2)	1.9 (1.2)	4.4 (1.9)	6.9 (2.8)	11.9 (7.2)	4.4 (0.6)	12.5 (6.7)	0	0
19	4	deep	50.6 (5.8)	0.6 (0.6)	0	3.1 (1.2)	1.2 (1.2)	28.7 (2.4)	10.6 2.1	0.6 (0.6)	2.5 (1.0)	1.9 (1.2)	0	0
20	4	deep	27.5 (3.7)	17.5 (4.4)	0	0.6 (0.6)	2.5 (1.4)	32.5 (4.7)	18.1 (3.3)	0.6 (0.6)	0.6 (0.6)	0	0	0
21	4	deep	60 (6.2)	8.1 (2.8)	0	0	0	12.5 (1.4)	17.5 (5.5)	0	1.9 (1.9)	0	0	0
22	4	deep	53.7 (5.8)	1.9 (1.9)	0	0	1.2 (1.2)	22.5 (5.9)	1.2 (0.7)	0	1.2 (1.2)	18.1 (4.8)	0	0
23	4	medium	36.9 (5.3)	20.6 (7.4)	0	3.7 (1.6)	0	10 (4.2)	6.9 (4.2)	0	0.6 (0.6)	21.3 (2.2)	0	0
24	4	shallow	17.5 (6.8)	4.4 (1.2)	0	0	0	33.1 (1.9)	5.0 (2.9)	0.6 (0.6)	30.6 (6.0)	8.1 (1.9)	0.6 (0.6)	0
25	4	deep	6.2 (3.7)	5.0 (1.0)	0	3.1 (0.6)	6.9 (0.6)	55.6 (6.0)	5.6 (2.1)	0	5.0 (1.0)	10 (2.5)	2.5 (1.4)	2.5 (1.4)
25	4	medium	21.2 (2.6)	16.2 (3.9)	0	3.1 (1.9)	1.9 (0.6)	36.2 (5.4)	14.4 (2.4)	0	2.5 (1.4)	3.7 (2.4)	0.6 (0.6)	0
26	4	deep	50 (3.9)	13.1 (5.7)	0	0.6 (0.6)	0	6.2 (2.2)	29.4 (4.5)	0	0.6 (0.6)	0	0	0
26	4	medium	48 (8.6)	16.9 (7.4)	0	0	0	13.1 (4.0)	21 (1.2)	0	0.6 (0.6)	0	0	0
27	4	medium	45.6 (9.1)	21.9 (11.0)	0	0.6 (0.6)	0.6 (0.6)	15.6 (6.0)	10 (3.7)	0	3.7 (2.4)	1.2 (0.7)	0.6 (0.6)	0
28	4	deep	13.1 (5.0)	1.9 (1.2)	0	0.6 (0.6)	0	40 (3.4)	1.9 (1.2)	0	12.5 (3.1)	29.4 (6.0)	0.6 (0.6)	0.6 (0.6)
28	3	medium	21.7 (3.6)	17.5 (8.8)	0	5.8 (3.0)	0	36.7 (7.9)	14.2 (7.1)	0	4.2 (4.2)	0	0	0
29	4	deep	63.7 (6.7)	3.7 (2.4)	0	0	0	11.9 (3.1)	13.1 (3.3)	1.2 (1.2)	4.4 (2.9)	1.2 (1.2)	0.6 (0.6)	0.6 (0.6)
29	4	medium	66.9 (2.6)	2.5 (1.0)	0.6 (0.6)	0.6 (0.6)	0	19.4 (3.3)	10 (3.4)	0	0	0	0	0
30	4	shallow	0 (0)	0	0	0	44.4 (11.5)	6.9 (3.4)	0	0	0	48.7 (14.1)	0	
31	4	deep	52.5 (2.8)	11.9 (4.5)	0	0	0	13.1 (4.5)	16.2 (5.0)	0	4.4 (0.6)	1.9 (1.2)	0	0
31	4	medium	36.9 (12.6)	15.6 (5.3)	0	0	0	21.9 (5.8)	25 (5.7)	0	0.6 (0.6)	0	0	0
32	4	deep	51.2 (7.2)	6.9 (2.1)	0	0	0	16.9 (1.2)	22.5 (3.4)	0	1.9 (1.9)	0	0.6 (0.6)	0.6 (0.6)

site	n	depth	HC	SC	DC	SP	MA	TA	CA	Cyano	RB	SD	Other	Silt
32	4	shallow	43.7 (4.3)	5.0 (1.8)	0	0	0	16.9 (6.8)	33 (5.2)	0	0.6 (0.6)	0	0.6 (0.6)	0
33	4	deep	57.5 (5.9)	9.4 (4.5)	0	0	0	18.1 (4.4)	5.0 (3.5)	0	3.1 (1.6)	6.2 (4.1)	0.6 (0.6)	0.6 (0.6)
33	4	shallow	32.5 (4.4)	22.5 (3.4)	0	0	0.6 (0.6)	23.1 (1.6)	1.3 (1.3)	0	10.6 (4.2)	8.1 (3.7)	1.2 (0.7)	0
34	4	deep	13.7 (7.7)	2.5 (1.8)	0	0.6 (0.6)	2.5 (0)	54.4 (10.7)	5.0 (3.5)	2.5 (2.5)	8.7 (4.3)	10 (3.1)	0	0
34	4	medium	26.7 (3.3)	17.5 (2.9)	0	1.7 (1.7)	4.2 (1.7)	20 (6.6)	27.5 (10.0)	1.7 (1.7)	0.8 (0.8)	0	0	0
35	4	deep	51.2 (1.6)	6.9 (3.9)	0	5.6 (2.6)	10.6 (4.9)	3.1 (2.4)	0.6 (0.6)	0	0	0	0	0
35	3	medium	51.7 (0.8)	10.8 (4.6)	0	0	29.2 (3.6)	5.8 (3.0)	2.5 (1.4)	0	0	0	0	0
36	4	deep	73.4 (3.2)	1.2 (0.7)	0	0.6 (0.6)	0	6.2 (2.6)	0	0	12.5 (2.7)	5.6 (5.6)	0	0
37	4	deep	48.1 (3.4)	3.7 (1.6)	0.6 (0.6)	0.6 (0.6)	0	14.4 (6.9)	27.5 (4.6)	2.5 (1.4)	2.5 (1.8)	0	0	0
37	2	medium	71.2 (3.7)	2.5 (2.5)	0	0	0	15 (5.0)	11.2 (1.2)	0	0	0	0	0
38	4	deep	47.5 (3.5)	12.5 (7.3)	0	0	0	12.5 (4.7)	25 (3.7)	0	0	0	2.5 (2.5)	2.5 (2.5)
39	4	deep	45.6 (2.8)	2.5 (1.4)	0.6 (0.6)	2.5 (1.8)	5.6 (1.9)	31.2 (1.6)	11.2 (1.6)	0	0	0	0.6 (0.6)	0.6 (0.6)
39	4	shallow	29.4 (1.9)	0	0	0	9.4 (3.3)	41 (4.6)	12.5 (2.5)	0	4.4 (1.6)	0	3.1 (3.1)	20.6 (3.7)
40	4	deep	44 (6.1)	0 (0)	0.6 (0.6)	1.2 (1.2)	1.9 (0.6)	41.2 (7.4)	1.2 (0.7)	0	0	9.4 (7.7)	0	0
41	4	deep	48.7 (4.1)	0.6 (0.6)	0	1.2 (0.7)	1.9 (0.6)	38.7 (3.9)	1.2 (0.7)	0	0	6.9 (0.6)	0.6 (0.6)	0.6 (0.6)
41	4	shallow	65.6 (1.6)	3.1 (1.6)	1.2 (0.7)	0	4.4 (2.1)	19.4 (2.1)	4.4 (1.9)	0	0	0	1.9 (1.9)	0
42	4	deep	11.2 (2.6)	2.5 (1.0)	1.9 (1.2)	0.6 (0.6)	1.9 (1.2)	40.0 (6.4)	0.6 (0.6)	0	13.1 (5.7)	28 (4.7)	0	0
42	4	shallow	17.7 (3.0)	8.1 (2.1)	0	0	22.5 (3.1)	41.9 (6.4)	1.2 (1.2)	0	7.5 (2.7)	5.0 (1.8)	0	0
43	4	deep	26.2 (6.6)	13.7 (3.7)	0	1.2 (1.2)	0.6 (0.6)	18.1 (10.4)	32.5 (10.9)	0	0.6 (0.6)	6.9 (6.9)	0	0
44	4	medium	28.7 (7.5)	0.6 (0.6)	0	3.7 (1.6)	4.4 (2.1)	20.6 (4.7)	16.2 (1.6)	0	10.6 (3.1)	15 (4.8)	0	0
45	4	deep	30 (3.4)	16.2 (2.98)	0	0	6.9 (2.1)	28.8 (6.2)	5.0 (1.8)	1.9 (1.2)	5.6 (1.2)	4.4 (2.6)	1.2 (1.2)	1.2 (1.2)
45	4	shallow	40.6 (6.1)	35 (2.9)	0.6	0.6 (0.6)	0	18.7 (3.1)	1.9 (1.2)	0	0.6 (0.6)	1.2 (0.7)	0.6 (0.6)	0
46	4	shallow	43.7 (2.4)	2.5 (1.4)	0.6	0	25 (1.0)	1.9 (1.2)	0	0	3.7 (3.7)	0.6 (0.6)	0	0
47	4	deep	28.7 (7.8)	0	0.6 (0.6)	1.2 (1.2)	13.7 (3.3)	7.5 (2.0)	1.2 (0.7)	0	36.9 (6.3)	8.7 (1.2)	1.2 (1.2)	0
47	4	shallow	31.9 (6.0)	2.5 (1.8)	0	3.7 (1.6)	20.6 (5.2)	17.5 (4.2)	0.6 (0.6)	0	11.9 (6.4)	10 (3.1)	1.2 (1.2)	0
48	4	shallow	29.4 (10.0)	0	0	0	10 (6.0)	26.2 (6.3)	0	0	5 (2.7)	0	0	0

A Rapid Marine Biodiversity Assessment of the Northeastern Lagoon from Touho to Ponérihouen, Province Nord, New Caledonia

Evaluation rapide de la biodiversité marine du lagon Nord-est de Touho à Ponérihouen, province Nord, Nouvelle-Calédonie

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Conservation International
2011 Crystal Dr., Suite 500
Arlington, VA 22202 USA

TELEPHONE: +1 703 341-2400

WEB: www.conservation.org

Conservation International –
Nouvelle-Calédonie
BP 14124
98803 Nouméa Cedex
Nouvelle-Calédonie

TEL : +687-76.69.88

