

Bridge DATA: Coral Snapshots

Table 1: Snapshot Analysis

Site: 1000 Steps, Figure 3 (shallow)

<u>Point</u>	<u>ID</u>
A	
B	
C	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	
a	
b	
c	
d	
e	
f	
g	
h	
i	
j	
k	
l	
m	
n	
o	
p	
q	
r	
s	
t	
u	
v	
w	
x	

Site: 1000 Steps, Figure 4 (deep)

<u>Point</u>	<u>ID</u>
A	
B	
C	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	
a	
b	
c	
d	
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p	
q	
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u	
v	
w	
x	

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Table 2: Species Diversity Calculator

Calculator is derived from a similar table found in the Bridge DATA: Diversity of the Deep by Breea Governar; Enhanced by Chris Petrone http://www2.vims.edu/bridge/DATA.cfm?Bridge_Location=archive0505.html

DIRECTIONS: Fill in the yellow cells only: site name and the identified category abundance. The pink and green cells are locked and will populate automatically. The components used to compare habitat diversity are colored green below.

Site: 1000 Steps, Figure 3 (shallow)					
A	B	C	D	E	F
Identified Organism/Substrate	Abundance	% of Transect	Relative abundance (Pi)	Natural log of the relative abundance (ln Pi)	Pi ln(Pi)
Stony corals					
Octocorals					
Other (fish, etc.)					
Dead coral with macroalgae					
Sand/rubble					
Shadow (Not used in calculations)					
Total Abundance (N; no Shadow):	0				
Richness (S):	0				
Shannon-Wiener Index of Diversity (H')	0.000				
Evenness (H'/ln(S)):					

<<The higher this result, the more diverse the habitat.
 <<The higher this result, the more diverse the habitat.
 <<Between 0 and 1, where 1 is completely even.

Site: 1000 Steps, Figure 4 (deep)					
A	B	C	D	E	F
Identified Organism/Substrate	Abundance	% of Transect	Relative abundance (Pi)	Natural log of the relative abundance (ln Pi)	Pi ln(Pi)
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Octocorals					
Other (fish, etc.)					
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Shannon-Wiener Index of Diversity (H')	0.000				
Evenness (H'/ln(S)):					

<<The higher this result, the more diverse the habitat.
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Table 3: Study Site Comparison

Transect	Depth (m)	Distance from Marine Reserve (km)	Distance from Major Development (km)	Shannon-Wiener Index	% Transect Stony Corals	% Transect Octocorals
1000 Steps Shallow	2	4.55	8.64			
1000 Steps Deep	7.5	4.55	8.64			
NNukove Shallow	0-5	7.3	20.49	1.23	11.38	0
NNukove Deep	6-20	7.3	20.49	1.58	32.83	0.33
18 Palms Shallow	0-5	14.42	1.23	0.42	5.51	0
18 Palms Deep	6-20	14.42	1.23	1.23	23.9	0.18
Hilima Hooker Shallow	0-5	19.01	5.9	0.44	2.12	3.74
Hilima Hooker Deep	6-20	19.01	5.9	1.52	24.54	13.12
Pink Beach Shallow	0-5	23.74	10.54	0.04	0.53	0
Pink Beach Deep	6-20	23.74	10.54	0.82	13.43	10.41