

LAMPIRAN



Lampiran 1

Tabel Kelimpahan dan Keanekaragaman Perifiton per cm pada Beberapa Jenis Karang di Akuarium Korall Sea World Indonesia, Jakarta

No	Nama Genus	Favia		Tubastraea		Symphyllia		Montastrea		Turbinaria		Favites		Galaxea	
		hidup	mati	hidup	mati	hidup	mati	hidup	mati	hidup	mati	hidup	mati	hidup	mati
Bacillariophyceae															
1	Actinocyclus	4*	12	2	4	0	30	14	8	0	0	10*	14	0	30
2	Actinophycus	0	0	0	2	0	0	0	0	0	0	0	0	0	0
3	Achnentes	0	0	0	0	0	0	0	0	0	0	0	4	0	0
4	Amphiprora	0	0	0	0	0	16	0	18	0	10	2	2	0	14
5	Amphora	0	44	20*	48	6	110*	0	68	4	10	0	8	6	66
6	Campylodiscus	0	0	0	0	0	0	0	0	92*	0	0	0	0	0
7	Cocconeis	0	0	0	0	0	12	0	0	0	0	0	0	0	0
8	Cyclotella	0	8	0	0	0	14	0	0	0	0	0	0	0	2
9	Cymbella	0	24	12	38	0	114*	2	262*	0	30	0	20	0	60
10	Diatoma	0	22	0	8	0	56	0	0	0	2	0	0	0	18
11	Diploneis	0	6	0	0	0	0	0	0	0	0	0	0	0	0
12	Ephithemia	0	54	0	0	0	68	0	6	0	30	0	6	0	34
13	Fragilaria	0	36	0	0	0	34	0	6	0	28	0	18	0	8
14	Grammatophora	0	0	0	0	0	2	0	2	0	0	0	6	0	2
15	Gyrosigma	0	6	2	12	0	8	0	16	0	4	2	0	0	0
16	Hemiaulus	0	0	0	0	0	0	0	0	0	0	0	4	0	0
17	Leptocylindrus	0	204*	0	18	8	0	0	0	0	0	0	8	0	0
18	Licmophora	0	0	0	0	0	26	0	8	0	0	0	2	0	0
19	Mastogloia	2	0	0	0	0	28	0	0	0	0	0	0	0	0
20	Melosira	0	0	0	0	0	22	0	2	0	0	0	0	0	2
21	Navicula	0	64	14	18	2	8	0	18	0	36	2	36*	4	126*
22	Neidium	0	0	0	2	0	0	0	0	0	16	0	0	0	14
23	Nitzschia	0	22	6	50	0	12	0	10	0	28	0	4	4	0
24	Plectonema	0	4	0	4	0	32	0	8	0	0	0	4	0	0
25	Pleurosigma	0	4	0	18	0	0	0	6	0	184*	0	6	0	4
26	Tabellaria	0	2	0	0	0	0	0	0	0	0	0	0	0	0
27	Thalassionema	0	0	0	0	0	0	0	0	0	2	0	0	0	0
28	Trachineis	0	0	0	0	0	20	0	32	0	0	0	0	0	0
29	Triceratium	0	0	0	0	0	0	0	0	0	0	0	4	0	0
Chlorophyceae															
30	Closterium	0	2	0	0	0	0	0	0	0	0	0	0	0	0
31	Euglena	0	0	0	6	0	0	0	0	0	0	0	0	0	2
32	Phacus	0	0	0	4	0	2	0	26	0	0	0	0	0	6
Cyanophyceae															
33	Aphanizomenon	2	66	0	8	0	22	0	20	0	0	0	16	0	0
34	Lyngbya	0	0	0	2	0	0	0	0	0	4	0	0	0	0
35	Nodularia	0	0	0	18	0	10	0	0	0	0	0	0	0	0
36	Nostoc	0	0	0	98*	0	0	0	2	0	6	0	0	0	0
37	Tricodesmium	0	10	0	6	0	0	0	0	0	4	0	0	0	0
Dinoflagellata															
38	Noctiluca	0	0	0	0	0	0	0	2	0	0	0	0	0	0
39	Prorocentrum	0	0	0	0	0	0	0	0	0	2	0	0	0	0
40	Pyrocystis	0	2	0	0	0	0	0	0	0	0	0	6	0	0
Sarcodina															
41	Globigerina	0	0	0	2	0	2	0	0	0	0	0	0	0	0
Unidentified															
42	Spesies P	0	0	0	0	50*	0	26*	0	38	0	2	0	56*	0
43	Spesies T	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Total individu		8	592	56	364	66	648	42	518	134	396	18	168	100	388
Jumlah jenis (S)		3	19	6	20	4	22	3	19	3	16	5	18	5	15
Indek Keragaman (H')		1.0404	2.2312	1.7686	2.3865	0.7899	2.6505	0.8079	1.8973	0.7203	1.9387	1.3034	2.5705	1.1123	2.0198
Indeks perataan (e)		0.9470	0.7578	0.9871	0.7966	0.5698	0.8575	0.7354	0.6444	0.6556	0.6992	0.8098	0.8893	0.6911	0.7459

Keterangan : Angka bertanda bintang (*) menunjukkan spesies dominan

Lampiran 2

Tabel Kelimpahan Relatif Perifiton (%) pada Beberapa Jenis Karang di Aquarium Korall Sea World Indonesia, Jakarta

No	Nama Genus	Favia		Tubastraea		Cynarina		Montastrea		Turbinaria		Favites		Galaxea	
		hidup	mati	hidup	mati	hidup	mati	hidup	mati	hidup	mati	hidup	mati	hidup	mati
Bacillariophyceae															
1	Actinocyclus	50*	2.03	3.57	1.09	0	4.63	87.5*	1.54	0	0	62.5*	8.33	0	7.73
2	Actinophycus	0	0	0	0.55	0	0	0	0	0	0	0	0	0	0
3	Achnentes	0	0	0	0	0	0	0	0	0	0	0	2.39	0	0
4	Amphiprora	0	0	0	0	0	2.47	0	3.48	0	2.53	12.5	1.19	0	3.61
5	Amphora	0	7.43	35.71*	13.19	37.5	16.98*	0	13.13	50*	2.53	0	4.76	42.68*	17.01
6	Cocconeis	0	0	0	0	0	1.85	0	0	0	0	0	0	0	0
7	Cyclotella	0	1.35	0	0	0	2.16	0	0	0	0	0	0	0	0.52
8	Cymbella	0	4.05	21.43	10.44	0	17.59*	12.5	50.58*	25	7.58	0	11.91	0	15.46
9	Diatoma	0	3.72	0	2.19	0	8.64	0	0	0	0.51	0	0	0	4.84
10	Diploneis	0	1.02	0	0	0	0	0	0	0	0	0	0	0	0
11	Ephithemia	0	9.12	0	0	0	10.49	0	1.16	0	7.58	0	3.57	0	8.76
12	Fragilaria	0	6.08	0	0	0	5.25	0	1.16	0	7.07	0	10.71	0	2.06
13	Grammatophora	0	0	0	0	0	0.31	0	0.39	0	0	0	3.57	0	0.52
14	Gyrosigma	0	1.02	3.57	3.29	0	1.24	0	3.09	0	1.01	12.5	0	0	0
15	Hemiaulus	0	0	0	0	0	0	0	0	0	0	0	2.39	0	0
16	Leptocylindrus	0	34.46*	0	4.95	50*	0	0	0	0	0	0	4.76	0	0
17	Licmophora	0	0	0	0	0	4.01	0	1.16	0	0	0	1.19	0	0
18	Mastogloia	25	0	0	0	0	4.32	0	0	0	0	0	0	0	0
19	Melosira	0	0	0	0	0	3.39	0	0.39	0	0	0	0	0	0.52
20	Navicula	0	10.81	25	4.95	12.5	1.24	0	3.48	25	9.09	12.5	21.43*	25	32.47*
21	Neidium	0	0	0	0.55	0	0	0	0	0	4.04	0	0	0	3.61
22	Nitzschia	0	3.72	10.71	13.74	0	1.85	0	1.93	0	7.07	0	2.39	25	0
23	Plectonema	0	0.68	0	1.09	0	4.94	0	1.54	0	0	0	2.39	0	0
24	Pleurosigma	0	0.68	0	4.95	0	0	0	1.16	0	46.47*	0	3.57	0	1.03
25	Tabellaria	0	0.34	0	0	0	0	0	0	0	0	0	0	0	0
26	Thalassionema	0	0	0	0	0	0	0	0	0	0.51	0	0	0	0
27	Trachineis	0	0	0	0	0	3.09	0	6.18	0	0	0	0	0	0
28	Triceratium	0	0	0	0	0	0	0	0	0	0	0	2.39	0	0
Chlorophyceae															
29	Closterium	0	0.34	0	0	0	0	0	0	0	0	0	0	0	0
30	Euglena	0	0	0	1.65	0	0	0	0	0	0	0	0	0	0.52
31	Phacus	0	0	0	1.09	0	0.31	0	5.02	0	0	0	0	0	1.55
Cyanophyceae															
32	Aphanizomenon	25	11.15	0	1.65	0	3.39	0	3.86	0	0	0	9.52	0	0
33	Lyngbya	0	0	0	0.55	0	0	0	0	0	1.01	0	0	0	0
34	Nodularia	0	0	0	4.95	0	1.54	0	0	0	0	0	0	0	0
35	Nostoc	0	0	0	26.92*	0	0	0	0.39	0	1.52	0	0	0	0
36	Tricodesmium	0	1.69	0	1.65	0	0	0	0	0	1.01	0	0	0	0
Dinoflagellata															
37	Noctiluca	0	0	0	0	0	0	0	0.39	0	0	0	0	0	0
38	Prorocentrum	0	0	0	0	0	0	0	0	0	0.51	0	0	0	0
39	Pyrocystis	0	0.34	0	0	0	0	0	0	0	0	0	3.57	0	0
Sarcodina															
40	Globigerina	0	0	0	0.55	0	0.31	0	0	0	0	0	0	0	0

Keterangan : Angka bertanda bintang (*) menunjukkan spesies yang paling melimpah

T-Test Favia sp

Paired Samples Statistics

	Pair 1	
	HIDUP	MATI
Mean	.908910	4.584740
N	20	20
Std. Deviation	.427788	3.224916
Std. Error Mean	9.6E-02	.721113

Paired Samples Correlations

Pair 1		N	Correlation	Sig.
Pair 1	HIDUP & MATI	20	-.123	.607

Paired Samples Test

		Pair 1
		HIDUP - MATI
Paired Differences	Mean	-3.675830
	Std. Deviation	3.304717
	Std. Error Mean	.738957
95% Confidence Interval of the Difference	Lower	-5.222485
	Upper	-2.129175
t		-4.974
df		19
Sig. (2-tailed)		.000

T-Test Tubastrea sp.

Paired Samples Statistics

	Pair 1	
	HIDUP	MATI
Mean	1.287104	3.355991
N	23	23
Std. Deviation	1.155934	2.320431
Std. Error Mean	.241029	.483843

Paired Samples Correlations

Pair 1		N	Correlation	Sig.
Pair 1	HIDUP & MATI	23	.521	.011

Paired Samples Test

		Pair 1
		HIDUP - MATI
Paired Differences	Mean	-2.068887
	Std. Deviation	1.980936
	Std. Error Mean	.413054
95% Confidence Interval of the Difference	Lower	-2.925508
	Upper	-1.212266
t		-5.009
df		22
Sig. (2-tailed)		.000

T-Test Cynarina sp.

Paired Samples Statistics

	Pair 1	
	HIDUP	MATI
Mean	.921217	4.698500
N	23	23
Std. Deviation	.602285	2.626320
Std. Error Mean	.125585	.547625

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 HIDUP & MATI	23	.010	.965

Paired Samples Test

		Pair 1
		HIDUP - MATI
Paired Differences	Mean	-3.777283
	Std. Deviation	2.688790
	Std. Error Mean	.560652
95% Confidence Interval of the Difference	Lower	-4.940003
	Upper	-2.614562
t		-6.737
df		22
Sig. (2-tailed)		.000

T-Test Montastrea sp.

Paired Samples Statistics

	Pair 1	
	HIDUP	MATI
Mean	.916300	4.109889
N	19	19
Std. Deviation	.728290	3.385845
Std. Error Mean	.167081	.776766

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 HIDUP & MATI	19	.155	.527

Paired Samples Test

		Pair 1
		HIDUP - MATI
Paired Differences	Mean	-3.193589
	Std. Deviation	3.351358
	Std. Error Mean	.768854
95% Confidence Interval of the Difference	Lower	-4.808892
	Upper	-1.578287
t		-4.154
df		18
Sig. (2-tailed)		.001

T-Test Turbinaria sp.

Paired Samples Statistics

	Pair 1	
	HIDUP	MATI
Mean	.904738	4.098950
N	16	16
Std. Deviation	.439905	3.013033
Std. Error Mean	.109976	.753258

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 HIDUP & MATI	16	.000	1.000

Paired Samples Test

		Pair 1
		HIDUP - MATI
Paired Differences	Mean	-3.194213
	Std. Deviation	3.045023
	Std. Error Mean	.761256
	95% Confidence Interval of the Difference	Lower Upper
		-4.816791 -1.571634
	t	-4.196
	df	15
	Sig. (2-tailed)	.001

T-Test Favites sp.

Paired Samples Statistics

	Pair 1	
	HIDUP	MATI
Mean	.978432	2.802374
N	19	19
Std. Deviation	.637288	1.253590
Std. Error Mean	.146204	.287593

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 HIDUP & MATI	19	.172	.480

Paired Samples Test

		Pair 1
		HIDUP - MATI
Paired Differences	Mean	-1.823942
	Std. Deviation	1.304649
	Std. Error Mean	.299307
	95% Confidence Interval of the Difference	Lower Upper
		-2.452763 -1.195121
	t	-6.094
	df	18
	Sig. (2-tailed)	.000

T-Test Galaxea sp.

Paired Samples Statistics

	Pair 1	
	HIDUP	MATI
Mean	.999025	4.069456
N	16	16
Std. Deviation	.634079	2.955583
Std. Error Mean	.158520	.738896

Paired Samples Correlations

Pair 1		N	Correlation	Sig.
1	HIDUP & MATI	16	.460	.073

Paired Samples Test

		Pair 1
		HIDUP - MATI
Paired Differences	Mean	-3.070431
	Std. Deviation	2.722966
	Std. Error Mean	.680741
	95% Confidence Interval of the Difference	Lower Upper
		-4.521397
		-1.619465
t		-4.510
df		15
Sig. (2-tailed)		.000

T-Test Karang Keseluruhan

Paired Samples Statistics

	Pair 1	
	HIDUP	MATI
Mean	1.370235	6.775555
N	40	40
Std. Deviation	1.422323	5.452990
Std. Error Mean	.224889	.862193

Paired Samples Correlations

Pair 1		N	Correlation	Sig.
1	HIDUP & MATI	40	.709	.000

Paired Samples Test

		Pair 1
		HIDUP - MATI
Paired Differences	Mean	-5.405320
	Std. Deviation	4.556294
	Std. Error Mean	.720413
95% Confidence Interval of the Difference	Lower	-6.862493
	Upper	-3.948147
t		-7.503
df		39
Sig. (2-tailed)		.000

