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LAMPIRAN

Lampiran 1. Pengukuran Parameter Lingkungan

Parameter Perairan	Ulangan			Rata-rata	Standar Deviasi
	1	2	3		
Suhu (c)	30	30	30	30	0.577350269
	29	29	29	29	
	30	30	30	30	
Salinitas (ppt)	30	30	30	30	0.577350269
	31	31	31	31	
	30	30	30	30	
Ph	7.29	7.31	7.04	7.213	0.173
	7.68	7.52	7.43	7.543	
	7.46	7.46	7.48	7.467	
Kekeruhan	4.21	4.25	3.26	3.907	1.236
	1.23	3.57	0.56	1.787	
	3.97	3.65	4.22	3.947	
Nitrat (mg/l)	0.006	0.004	0.005	0.005	0.001
	0.005	0.003	0.006	0.005	
	0.009	0.007	0.005	0.007	
Fosfat (mg/l)	0.012	0.018	0.003	0.011	0.001
	0.01	0.012	0.011	0.011	
	0.003	0.01	0.014	0.009	
Ca (mg/l)	5.3	5.9	5.1	5.433	0.320
	5.4	4.9	7.2	5.833	
	5	6.8	6.4	6.067	
DO	8.83	8.87	8.88	8.860	0.843
	7.77	7.75	7.79	7.770	
	7.18	7.21	7.21	7.200	
Kecepatan Arus(m/s)	0.0204	0.028	0.024	0.024	0.008
	0.016	0.016	0.016	0.016	
	0.027	0.033	0.033	0.031	
CO2 Bebas	0	0	0	0.000	0.000
	0	0	0	0.000	
	0	0	0	0.000	

Hasil Pengukuran Butir Sedimen

Stasiun	Ulangan	Ulangan	Rata-rata
1	1	0.40	0.50
	2	0.50	
	3	0.60	
2	1	0.25	0.36
	2	0.41	
	3	0.42	
3	1	0.35	0.39
	2	0.40	
	3	0.43	

Lampiran 2. Hasil Perhitungan Jenis Halimeda antar Stasiun

Nama Spesies	Palipi						Total	Sendana						Total	Pantai dato						Total
	U1	U2	U3	U4	U5	U6		U1	U2	U3	U4	U5	U6		U1	U2	U3	U4	U5	U6	
<i>H.macroloba</i>	10	15	11	17	12	9	74	4	9	8	2	7	2	32	3	0	4	0	2	0	9
<i>H.borneensis</i>	4	6	5	8	0	7	30	4	0	5	3	0	0	12	0	0	5	0	0	3	8
<i>H.opuntia</i>	3	8	10	5	4	0	30	4	6	7	5	6	2	30	7	9	2	5	4	5	32
<i>H.simulans</i>	8	11	6	4	5	3	37	0	3	5	0	2	0	10	0	0	0	0	0	0	0
<i>H.stuposa</i>	4	0	6	2	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>H.gigas</i>	0	0	0	0	0	0	0	0	0	5	8	0	0	13	0	0	0	0	0	0	0
<i>H.discoidea</i>	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0
<i>Total individu</i>	29	40	38	36	21	19	183	12	18	32	18	15	4	99	10	9	11	5	6	8	49

Lampiran 3. Uji One-Way ANOVA

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
<i>H.macroloba</i>	18	100.0%	0	0.0%	18	100.0%

Descriptives

		Statistic	Std. Error
<i>H.macroloba</i>	Mean	6.39	1.242
	95% Confidence Interval for Mean		
	Lower Bound	3.77	
	Upper Bound	9.01	
	5% Trimmed Mean	6.15	
	Median	5.50	
	Variance	27.781	
	Std. Deviation	5.271	
	Minimum	0	
	Maximum	17	
	Range	17	
	Interquartile Range	8	
	Skewness	.494	.536
	Kurtosis	-.767	1.038

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	df	Sig.
<i>H.macroloba</i>	.175	18	.151	.928	18	.176

a. Lilliefors Significance Correction

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
<i>H.borneensis</i>	18	100.0%	0	0.0%	18	100.0%

Descriptives

		Statistic	Std. Error	
<i>H.borneensis</i>	Mean	2.78	.664	
	95% Confidence Interval for Mean	Lower Bound	1.38	
		Upper Bound	4.18	
	5% Trimmed Mean	2.64		
	Median	3.00		
	Variance	7.948		
	Std. Deviation	2.819		
	Minimum	0		
	Maximum	8		
	Range	8		
	Interquartile Range	5		
	Skewness	.343	.536	
	Kurtosis	-1.326	1.038	

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	df	Sig.
<i>H.borneensis</i>	.282	18	.001	.841	18	.006

a. Lilliefors Significance Correction

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
<i>Trans_H.borneensis</i>	10	55.6%	8	44.4%	18	100.0%

Descriptives

		Statistic	Std. Error	
<i>Trans_H.borneensis</i>	Mean	.6782	.04499	
	95% Confidence Interval for Mean	Lower Bound	.5764	
		Upper Bound	.7799	
	5% Trimmed Mean	.6768		
	Median	.6990		
	Variance	.020		

Std. Deviation	.14227	
Minimum	.48	
Maximum	.90	
Range	.43	
Interquartile Range	.22	
Skewness	-.004	.687
Kurtosis	-.733	1.334

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	df	Sig.
Trans_ <i>H.borneensis</i>	.158	10	.200*	.946	10	.619

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Case Processing Summary

	N	Cases		Total N	Percent
		Valid Percent	Missing Percent		
<i>H.opuntia</i>	18	100.0%	0.0%	18	100.0%

Descriptives

		Statistic	Std. Error	
<i>H.opuntia</i>	Mean	5.11	.599	
	95% Confidence Interval for Mean	Lower Bound	3.85	
		Upper Bound	6.37	
	5% Trimmed Mean	5.12		
	Median	5.00		
	Variance	6.458		
	Std. Deviation	2.541		
	Minimum	0		
	Maximum	10		
	Range	10		
	Interquartile Range	3		
	Skewness	.030	.536	
	Kurtosis	-.013	1.038	

Tests of Normality						
	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	df	Sig.
<i>H.opuntia</i>	.129	18	.200*	.983	18	.975

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Oneway

		Descriptives							
		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
<i>H.macroloba</i>	Palipi	6	12.33	3.077	1.256	9.10	15.56	9	17
	Sendana	6	5.33	3.077	1.256	2.10	8.56	2	9
	Pantai Dato	6	1.50	1.761	.719	-.35	3.35	0	4
	Total	18	6.39	5.271	1.242	3.77	9.01	0	17
<i>H.opuntia</i>	Palipi	6	5.00	3.578	1.461	1.25	8.75	0	10
	Sendana	6	5.00	1.789	.730	3.12	6.88	2	7
	Pantai Dato	6	5.33	2.422	.989	2.79	7.88	2	9
	Total	18	5.11	2.541	.599	3.85	6.37	0	10
Trans_ <i>H.borneensis</i>	Palipi	5	.7655	.11892	.05318	.6178	.9131	.60	.90
	Sendana	3	.5927	.11122	.06421	.3164	.8690	.48	.70
	Pantai Dato	2	.5880	.15687	.11092	-.8214	1.9975	.48	.70
	Total	10	.6782	.14227	.04499	.5764	.7799	.48	.90

Test of Homogeneity of Variances

		Levene			
		Statistic	df1	df2	Sig.
<i>H.macroloba</i>	Based on Mean	1.903	2	15	.183
	Based on Median	1.196	2	15	.330
	Based on Median and with adjusted df	1.196	2	9.454	.344
	Based on trimmed mean	1.798	2	15	.200
<i>H.opuntia</i>	Based on Mean	1.120	2	15	.352
	Based on Median	1.008	2	15	.388
	Based on Median and with adjusted df	1.008	2	12.396	.393
	Based on trimmed mean	1.118	2	15	.353
Trans_ <i>H.bornee nsis</i>	Based on Mean	.228	2	7	.802
	Based on Median	.221	2	7	.807
	Based on Median and with adjusted df	.221	2	6.000	.808
	Based on trimmed mean	.226	2	7	.803

ANOVA						
		Sum of Squares	df	Mean Square	F	Sig.
<i>H.macroloba</i>	Between Groups	362.111	2	181.056	24.652	.000
	Within Groups	110.167	15	7.344		
	Total	472.278	17			
<i>H.opuntia</i>	Between Groups	.444	2	.222	.030	.970
	Within Groups	109.333	15	7.289		
	Total	109.778	17			
Trans_ <i>H.borneensi</i> s	Between Groups	.076	2	.038	2.520	.150
	Within Groups	.106	7	.015		
	Total	.182	9			

Case Processing Summary						
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
<i>H.simulans</i>	18	100.0%	0	0.0%	18	100.0%

Descriptives			
		Statistic	Std. Error
<i>H.simulans</i>	Mean	2.61	.780
	95% Confidence Interval for Mean	Lower Bound	.96
		Upper Bound	4.26
	5% Trimmed Mean	2.29	
	Median	1.00	
	Variance	10.958	
	Std. Deviation	3.310	
	Minimum	0	
	Maximum	11	
	Range	11	
	Interquartile Range	5	
	Skewness	1.196	.536
	Kurtosis	.866	1.038

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	df	Sig.
<i>H.simulans</i>	.285	18	.000	.803	18	.002

a. Lilliefors Significance Correction

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
<i>Trans_H.simulans</i>	9	50.0%	9	50.0%	18	100.0%

Descriptives

		Statistic	Std. Error	
<i>Trans_H.simulans</i>	Mean	.6642	.07642	
	95% Confidence Interval for Mean	Lower Bound	.4880	
		Upper Bound	.8404	
	5% Trimmed Mean	.6634		
	Median	.6990		
	Variance	.053		
	Std. Deviation	.22926		
	Minimum	.30		
	Maximum	1.04		
	Range	.74		
	Interquartile Range	.36		
	Skewness	.102	.717	
	Kurtosis	-.351	1.400	

UJI T-Test *H.simulans*

Independent Samples Test										
		Levene's Test for Equality of Variances		t-test for Equality of Means					95% Confidence Interval of the Difference	
		F	Sig.	T	df	Sig. (2- tailed)	Mean Difference	Std. Error Difference	Lower	Upper
Trans_ <i>H.simulans</i>	Equal variances assumed	.066	.804	1.798	7	.115	.25776	.14333	-.08117	.59668
	Equal variances not assumed			1.814	4.183	.141	.25776	.14209	-.13005	.64557

Group Statistics					
Stasiun		N	Mean	Std. Deviation	Std. Error Mean
Trans_ <i>H.simulans</i>	Palipi	6	.7501	.20401	.08329
	Sendana	3	.4924	.19941	.11513

Lampiran 4. Kegiatan di Lapangan



Lampiran 5. Kegiatan di Laboratorium

