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LAMPIRAN

Lampiran 1. Data Tutupan Lamun (%)
Stasiun 1

	U1				Tutupan (%)
P1	25	75	75	75	63
P2	75	75	75	75	75
P3	25	25	50	25	31
P4	75	75	100	50	75
P5	50	25	25	50	38
Rata-rata					56

	U2				Tutupan (%)
P1	50	75	75	50	63
P2	25	100	25	25	44
P3	25	25	100	25	44
P4	25	25	25	25	25
P5	50	25	25	50	38
P6	25	25	0	0	13
P7	0	25	0	0	6
Rata-rata					33

	U3				Tutupan (%)
P1	25	75	25	25	38
P2	25	25	25	25	25
P3	25	25	0	0	13
P4	100	75	50	50	69
P5	0	0	0	0	0
P6	25	0	25	0	13
P7	0	25	0	25	13
Rata-rata					24

Stasiiun 2

	U1				Tutupan (%)
P1	50	50	50	50	50
P2	25	25	25	25	25
P3	25	25	0	0	13
P4	50	50	25	25	38
P5	50	25	25	0	25
Rata-rata					30

U2					Tutupan (%)
P1	25	25	25	25	25
P2	25	0	0	0	6
P3	50	25	0	50	31
P4	25	25	0	0	13
P5	0	25	25	0	13
Rata-rata					18

U3					Tutupan (%)
P1	25	25	0	0	13
P2	0	25	25	0	13
P3	25	25	25	25	25
P4	0	25	0	25	13
P5	0	25	0	0	6
Rata-rata					14

Stasiun 3

U1					Tutupan (%)
P1	25	25	0	0	13
P2	50	25	25	25	31
P3	25	25	25	25	25
P4	75	25	50	25	44
P5	50	25	0	0	19
Rata-rata					26

U2					Tutupan (%)
P1	50	25	25	50	38
P2	0	50	75	25	38
P3	50	25	25	0	25
P4	25	75	50	50	50
P5	25	25	25	0	19
Rata-rata					34

U3					Tutupan (%)
P1	25	25	0	0	13
P2	50	50	50	25	44
P3	75	75	25	25	50
P4	75	50	25	0	38
P5	50	25	0	25	25
Rata-rata					34

Stasiun 4

		U1			Tutupan (%)
P1	50	50	50	0	38
P2	50	50	50	50	50
P3	25	50	25	25	31
P4	25	0	25	0	13
P5	0	50	0	25	19
		Rata-rata			30

		U2			Tutupan (%)
P1	25	25	25	0	19
P2	0	25	0	0	6
P3	25	50	50	25	38
P4	25	25	25	25	25
P5	25	25	0	25	19
		Rata-rata			21

		U3			Tutupan (%)
P1	0	25	0	0	6
P2	25	0	0	0	6
P3	25	50	25	0	25
P4	25	25	25	25	25
P5	0	25	0	0	6
		Rata-rata			14

Lampiran 2. Analisis Data Tutupan

ANOVA

tutupan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	595.000	3	198.333	1.856	.215
Within Groups	854.667	8	106.833		
Total	1449.667	11			

Lampiran 3. Data biomassa Lamun (gbk/m^2)

Stasiun	Transek	Jenis Lamun							
		E. acoorides		C. rotundata		H. ovalis		T. hempricii	
		A	B	A	B	A	B	A	B
	1			1,07	7,72				
	2			0,20	0,65			0,20	0,47
	3							1,35	5,43
	4			0,46	1,44	0,04	0,05		
I	5					0,07	0,08		
	6	1,10	2,23					0,13	0,65
	7	0,63	2,32	0,29	0,64	0,02	0,02		
	8	1,68	3,36	0,07	0,13	0,01	0,01		
	9	0,90	6,46						
Rata-Rata		1,08	3,60	0,42	2,12	0,04	0,04	0,56	2,18
	1	0,72	6,26					0,47	1,15
	2	2,18	2,53						
	3	1,88	15,60						
	4	0,44	1,31						
II	5	0,15	0,54						
	6	0,51	2,84					0,08	0,25
	7	0,52	1,61			0,01	0,01	0,01	0,13
	8					0,01	0,01	0,09	0,11
	9	1,00	1,77						
Rata-Rata		0,93	4,06			0,01	0,01	0,16	0,41
	1	1,08	1,11						
III	2	2,78	10,20			0,02	0,02		
	3	2,09	6,85						

	4	1,07	1,89				
	5	2,45	4,45				
	6	1,50	4,04				
	7	6,13	12,22				
	8	4,74	9,92				
	9	1,50	4,17				
Rata-Rata		2,59	6,09	0,02	0,02		
	1	7,19	11,97				
	2	1,41	6,13				
	3	6,10	8,14				
	4	0,89	3,15			0,03	0,08
IV	5	0,69	5,28				
	6	1,47	5,64				
	7	1,57	3,72				
	8	1,49	6,34				
	9	3,81	4,75				
Rata-Rata		2,74	6,12			0,03	0,08

Stasiun	Atas	Bawah	Jumlah
1	93,35	351,87	445,22
2	89,69	379,04	468,73
3	259,59	609,61	869,21
4	273,95	613,29	887,24

Lampiran 4. Hasil Analisis Data Biomassa

ANOVA

Biomassa antar Stasiun

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	1600995.961	3	533665.320	2.337	.092
Within Groups	7307422.384	32	228356.950		
Total	8908418.345	35			

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
Biomassa	Equal variances assumed	10.862	.005	-2.962	16	.009	-258.52556	87.29281	-443.57804	-73.47307
	Equal variances not assumed			-2.962	8.768	.016	-258.52556	87.29281	-456.79649	-60.25462

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
Biomassa	Equal variances assumed	6.542	.021	-1.748	16	.100	-289.35556	165.57873	-640.36679	61.65568
	Equal variances not assumed			-1.748	8.361	.117	-289.35556	165.57873	-668.33356	89.62245

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
Biomassa	Equal variances assumed	8.296	.011	-2.446	16	.026	-350.02111	143.07350	-653.32338	-46.71884
	Equal variances not assumed			-2.446	11.057	.032	-350.02111	143.07350	-664.72585	-35.31637

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
Biomassa	Equal variances assumed	.065	.803	-2.860	16	.011	-339.34000	118.63228	-590.82920	-87.85080
	Equal variances not assumed			-2.860	15.867	.011	-339.34000	118.63228	-591.00128	-87.67872

ANOVA

Biomassa antar Jenis

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	4559921.811	3	1519973.937	8.305	.000
Within Groups	8418724.387	46	183015.748		
Total	12978646.198	49			

Biomassa

Student-Newman-Keuls[a,b]

		Subset for alpha = 0.05	
Jenis	N	1	2
Ho	7	5.3314	
Th	8	132.7037	
Cr	5	253.2980	

Ea	30		722.2730
Sig.		.484	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 7.981.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

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
Biomassa	Equal variances assumed	10.924	.002	-4.287	58	.000	-323.14400	75.37260	-474.01865	-172.26935
	Equal variances not assumed			-4.287	42.129	.000	-323.14400	75.37260	-475.23825	-171.04975

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
Biomassa	Equal variances assumed	5.059	.055	-1.189	8	.268	-169.74800	142.73477	-498.89496	159.39896
	Equal variances not assumed			-1.189	4.123	.298	-169.74800	142.73477	-561.40835	221.91235

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
Biomassa	Equal variances assumed	.047	.832	-.169	12	.869	-.22857	1.35301	-3.17653	2.71939
	Equal variances not assumed			-.169	11.915	.869	-.22857	1.35301	-3.17886	2.72172

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
Biomassa	Equal variances assumed	2.797	.117	-1.118	14	.282	-73.81375	66.00929	-215.38959	67.76209
	Equal variances not assumed			-1.118	7.859	.296	-73.81375	66.00929	-226.50660	78.87910

Lampiran 5. Data stok karbon Lamun (gC/m^2)

Stasiun	Transek	Jenis Lamun							
		E. acoorides		C. rotundata		H. ovalis		T. hempricii	
		A	B	A	B	A	B	A	B
I	1			50,66	343,28				
	2			9,23	28,90			10,82	19,29
	3							72,96	222,75
	4			21,78	64,03	1,05	1,25		
	5					1,70	2,02		
	6	43,66	81,65					7,15	26,60
	7	25,15	84,93	13,93	28,67	0,42	0,50		
	8	66,64	122,76	3,27	5,59	0,24	0,28		
	9	35,64	236,15						
Rata-Rata		42,77	131,37	19,77	94,10	0,85	1,01	30,31	89,55
II	1	28,57	228,88					25,27	47,10
	2	86,65	92,45						
	3	74,65	569,83						
	4	17,28	48,04						
	5	5,97	19,76						
	6	20,14	103,82					4,46	10,33
	7	20,73	58,71			0,13	0,16	0,54	5,13
	8					0,19	0,23	4,87	4,51
	9	39,81	64,77						
Rata-Rata		36,73	148,28			0,16	0,19	8,79	16,77
III	1	42,84	40,56						
	2	110,46	372,67			0,50	0,59		
	3	82,88	250,40						
	4	42,63	68,89						

	5	97,01	162,61				
	6	59,50	147,61				
	7	243,01	446,46				
	8	188,02	362,44				
	9	59,50	152,36				
Rata-Rata		102,87	222,67	0,50	0,59		
	1	285,10	437,44				
	2	56,12	223,93				
	3	242,07	297,41				
	4	35,41	115,10			1,49	3,28
IV	5	27,48	192,86				
	6	58,25	206,03				
	7	62,41	135,81				
	8	59,13	231,54				
	9	150,93	173,64				
Rata-Rata		108,54	223,75			1,49	3,28

Stasiun	Atas	Bawah	Jumlah
1	41,24	140,97	182,21
2	36,59	139,29	175,88
3	102,93	222,71	325,64
4	108,71	224,12	332,83

Lampiran 6. Hasil Analisis Data Stok Karbon

ANOVA

Stok Karbon antar Stasiun

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	203411.079	3	67803.693	2.062	.125
Within Groups	1052165.484	32	32880.171		
Total	1255576.563	35			

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
SK	Equal variances assumed	10.176	.006	-2.715	16	.015	-99.73222	36.72732	-177.59066	-21.87378
	Equal variances not assumed			-2.715	8.846	.024	-99.73222	36.72732	-183.03657	-16.42787

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
SK	Equal variances assumed	6.363	.023	-1.690	16	.110	-102.69333	60.75765	-231.49380	26.10713
	Equal variances not assumed			-1.690	8.428	.128	-102.69333	60.75765	-241.57063	36.18396

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
SK	Equal variances assumed	7.053	.017	-2.259	16	.038	-119.77222	53.03171	-232.19443	-7.35002
	Equal variances not assumed			-2.259	11.552	.044	-119.77222	53.03171	-235.81742	-3.72703

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
SK	Equal variances assumed	.227	.640	-2.562	16	.021	-115.40556	45.04841	-210.90391	-19.90720
	Equal variances not assumed			-2.562	15.999	.021	-115.40556	45.04841	-210.90464	-19.90648

ANOVA

Stok Karbon antar Jenis

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	607167.399	3	202389.133	7.565	.000
Within Groups	1230582.988	46	26751.804		
Total	1837750.387	49			

SK

Student-Newman-Keuls[a,b]

		Subset for alpha = 0.05	
Jenis	N	1	2
Ho	7	1.3186	
Th	8	58.3050	
Cr	5	113.8360	113.8360

Ea	30		270.1400
Sig.		.363	.063

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 7.981.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

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
SK	Equal variances assumed	9.059	.004	-3.992	58	.000	-111.82067	28.00953	-167.88783	-55.75351
	Equal variances not assumed			-3.992	44.156	.000	-111.82067	28.00953	-168.26454	-55.37680

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
SK	Equal variances assumed	4.957	.057	-1.169	8	.276	-74.27800	63.53444	-220.78869	72.23269
	Equal variances not assumed			-1.169	4.140	.305	-74.27800	63.53444	-248.35163	99.79563

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
SK	Equal variances assumed	.197	.665	-.340	12	.740	-.11429	.33654	-.84754	.61897
	Equal variances not assumed			-.340	11.662	.740	-.11429	.33654	-.84991	.62134

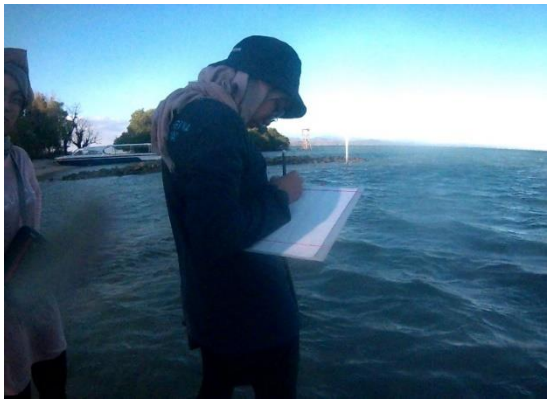
Independent Samples Test

		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
SK	Equal variances assumed	2.096	.170	-.956	14	.355	-26.45500	27.66525	-85.79105	32.88105
	Equal variances not assumed			-.956	8.481	.365	-26.45500	27.66525	-89.62670	36.71670

Lampiran 7. Dokumentasi di Lapangan

a

b



c

d

Gambar 1. a) penarikan transek garis, b) pencuplikan dan pengambilan sampel lamun dan sedimen, c) mencatat posisi transek garis, d) tim turun lapangan

Lampiran 8. Dokumentasi di Laboratorium

a

b

Gambar 2. a) pengeringan sampel sedimen, b) pengayakan sampel sedimen

a

b

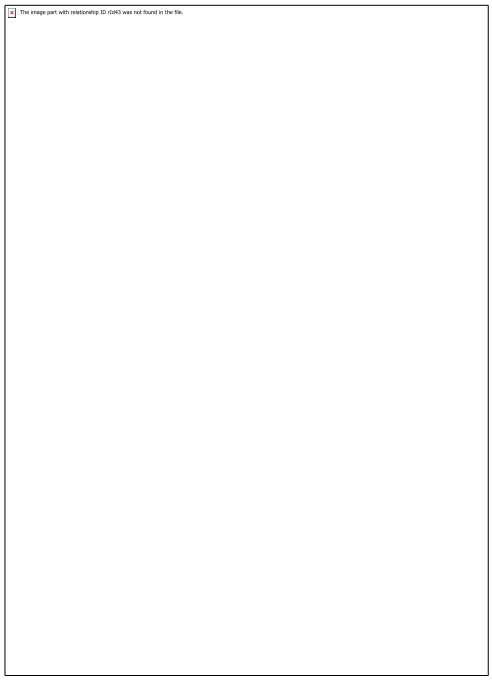
c

d

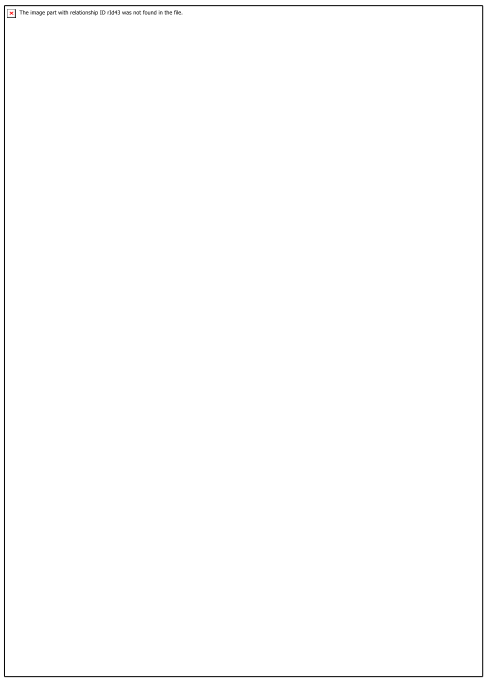
Gambar 3. a) *Enhalus acoroides*, b) *Thallasia hemprichii*, c) *Cymodocea rotundata*, d) *Halophila ovalis*

a

b



c



d

Gambar 4. a) menghaluskan sampel lamun, b) menimbang sampel lamun, c) pengenceran larutan terhadap sampel lamun, d) mentitrasi larutuan terhadap sampel lamun