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LAMPIRAN

LAMPIRAN

Lampiran 1. Kelimpahan Fitoplankton Pada Setiap Titik penelitian

Titik Penelitian	Kelimpahan	Titik Penelitian	Kelimpahan
1	295	22	597
2	301	23	388
3	307	24	282
4	427	25	506
5	446	26	482
6	493	27	574
7	516	28	379
8	895	29	419
9	977	30	578
10	771	31	529
11	561	32	593
12	720	33	644
13	400	34	505
14	464	35	647
15	630	36	439
16	820	37	723
17	691	38	308
18	739	39	482
19	713	40	639
20	768	41	671
21	731	42	568

Lampiran 2. Uji Normalitas

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Kelimpahan_Fitoplankton	34	94.4%	2	5.6%	36	100.0%

Descriptives

			Statistic	Std. Error
Kelimpahan_Fitoplankton	Mean		524.97	25.949
	95% Confidence Interval for Mean	Lower Bound	472.18	
		Upper Bound	577.76	
	5% Trimmed Mean		522.97	
	Median		505.50	
	Variance		22894.090	
	Std. Deviation		151.308	
	Minimum		282	
	Maximum		820	
	Range		538	
	Interquartile Range		239	
	Skewness		.135	.403
	Kurtosis		-.949	.788

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Kelimpahan_Fitoplankton	.082	34	.200*	.963	34	.287

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

a. Lilliefors Significance Correction

Lampiran 3. Uji One Way Anova dan Tukey HSD

Descriptives

Kelimpahan_Fitoplankton

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	7	397.86	95.213	35.987	309.80	485.91	295	516
2	9	660.56	140.440	46.813	552.60	768.51	400	820
3	9	459.67	99.618	33.206	383.09	536.24	282	578
4	9	553.56	132.119	44.040	452.00	655.11	308	723
Total	34	524.97	151.308	25.949	472.18	577.76	282	820

ANOVA

Kelimpahan_Fitoplankton

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	324289.669	3	108096.556	7.520	.001
Within Groups	431215.302	30	14373.843		
Total	755504.971	33			

Multiple Comparisons

Dependent Variable: Kelimpahan_Fitoplankton

	(I) Transek	(J) Transek	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Tukey HSD	1	2	-262.698*	60.419	.001	-426.99	-98.41
		3	-61.810	60.419	.737	-226.10	102.48
		4	-155.698	60.419	.068	-319.99	8.59
	2	1	262.698*	60.419	.001	98.41	426.99
		3	200.889*	56.517	.007	47.21	354.57
		4	107.000	56.517	.252	-46.68	260.68
	3	1	61.810	60.419	.737	-102.48	226.10
		2	-200.889*	56.517	.007	-354.57	-47.21
		4	-93.889	56.517	.361	-247.57	59.79
	4	1	155.698	60.419	.068	-8.59	319.99
		2	-107.000	56.517	.252	-260.68	46.68
		3	93.889	56.517	.361	-59.79	247.57
LSD	1	2	-262.698*	60.419	.000	-386.09	-139.31
		3	-61.810	60.419	.314	-185.20	61.58
		4	-155.698*	60.419	.015	-279.09	-32.31
	2	1	262.698*	60.419	.000	139.31	386.09
		3	200.889*	56.517	.001	85.47	316.31
		4	107.000	56.517	.068	-8.42	222.42
	3	1	61.810	60.419	.314	-61.58	185.20
		2	-200.889*	56.517	.001	-316.31	-85.47
		4	-93.889	56.517	.107	-209.31	21.53
	4	1	155.698*	60.419	.015	32.31	279.09
		2	-107.000	56.517	.068	-222.42	8.42
		3	93.889	56.517	.107	-21.53	209.31

*. The mean difference is significant at the 0.05 level.

Kelimpahan_Fitoplankton

	Transek	N	Subset for alpha = 0.05	
			1	2
Tukey HSD[a,b]	1	7	397.86	
	3	9	459.67	
	4	9	553.56	553.56
	2	9		660.56
	Sig.		.057	.280

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 8,400.
b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

Lampiran 4. Hasil regresi dengan perubahan tanda Band 4

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Kelimpahan_Fitoplankton	21	100.0%	0	0.0%	21	100.0%

Descriptives

			Statistic	Std. Error
Kelimpahan_Fitoplankton	Mean		594.95	36.852
	95% Confidence Interval for Mean	Lower Bound	518.08	
		Upper Bound	671.82	
	5% Trimmed Mean		590.14	
	Median		578.00	
	Variance		28518.948	
	Std. Deviation		168.876	
	Minimum		307	
	Maximum		977	
	Range		670	
	Interquartile Range		240	
	Skewness		.264	.501
	Kurtosis		-.035	.972

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Kelimpahan_Fitoplankton	.109	21	.200*	.976	21	.868

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

a. Lilliefors Significance Correction

Descriptive Statistics

	Mean	Std. Deviation	N
Kelimpahan_Fitoplankton	594.95	168.876	21
Band8	1103.71	29.119	21
Band4	1159.62	42.698	21
Band3	1305.43	52.802	21
Band2	1369.52	45.881	21

Correlations

		Kelimpahan_Fitoplankton	Band8	Band4	Band3	Band2
Pearson Correlation	Kelimpahan_Fitoplankton	1.000	.529	-.128	-.381	-.214
	Band8	.529	1.000	.114	.133	.322
	Band4	-.128	.114	1.000	.542	.161
	Band3	-.381	.133	.542	1.000	.759
	Band2	-.214	.322	.161	.759	1.000
Sig. (1-tailed)	Kelimpahan_Fitoplankton	.	.007	.289	.044	.176
	Band8	.007	.	.312	.282	.077
	Band4	.289	.312	.	.006	.243
	Band3	.044	.282	.006	.	.000
	Band2	.176	.077	.243	.000	.
N	Kelimpahan_Fitoplankton	21	21	21	21	21
	Band8	21	21	21	21	21
	Band4	21	21	21	21	21
	Band3	21	21	21	21	21
	Band2	21	21	21	21	21

variables Entered/Removed[a]

Model	Variables Entered	Variables Removed	Method
1	Band2, Band4, Band8, Band3[b]	.	Enter

a. Dependent Variable: Kelimpahan_Fitoplankton
b. All requested variables entered.

Variables Entered/Removed[a]

Model	Variables Entered	Variables Removed	Method
1	Band2, Band4, Band8, Band3[b]	.	Enter

a. Dependent Variable: Kelimpahan_Fitoplankton
b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.704[a]	.495	.369	134.112	.495	3.928	4	16	.021

a. Predictors: (Constant), Band2, Band4, Band8, Band3

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	282601.402	4	70650.350	3.928	.021[b]
	Residual	287777.551	16	17986.097		
	Total	570378.952	20			

a. Dependent Variable: Kelimpahan_Fitoplankton

b. Predictors: (Constant), Band2, Band4, Band8, Band3

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations		
		B	Std. Error	Beta			Zero-order	Partial	Part
1	(Constant)	-1248.967	1427.524		-.875	.395			
	Band8	3.584	1.141	.618	3.140	.006	.529	.617	.558
	Band4	.109	.969	.027	.112	.912	-.128	.028	.020
	Band3	-1.213	1.206	-.379	-1.006	.330	-.381	-.244	-.179
	Band2	-.478	1.238	-.130	-.386	.704	-.214	-.096	-.069

a. Dependent Variable: Kelimpahan_Fitoplankton

Lampiran 5. Hasil regresi band 8, band 3, band 2

Descriptive Statistics

	Mean	Std. Deviation	N
Kelimpahan_Fitoplankton	594.95	168.876	21
Band8	1103.71	29.119	21
Band3	1305.43	52.802	21
Band2	1369.52	45.881	21

Correlations

		Kelimpahan_Fitoplankton	Band8	Band3	Band2
Pearson Correlation	Kelimpahan_Fitoplankton	1.000	.529	-.381	-.214
	Band8	.529	1.000	.133	.322
	Band3	-.381	.133	1.000	.759
	Band2	-.214	.322	.759	1.000
Sig. (1-tailed)	Kelimpahan_Fitoplankton	.	.007	.044	.176
	Band8	.007	.	.282	.077
	Band3	.044	.282	.	.000
	Band2	.176	.077	.000	.
N	Kelimpahan_Fitoplankton	21	21	21	21
	Band8	21	21	21	21
	Band3	21	21	21	21
	Band2	21	21	21	21

Variables Entered/Removed[a]

Model	Variables Entered	Variables Removed	Method
1	Band2, Band8, Band3[b]	.	Enter

a. Dependent Variable: Kelimpahan_Fitoplankton

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
1	.704[a]	.495	.406	130.159	.495	5.556	3	17	.008

a. Predictors: (Constant), Band2, Band8, Band3

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	282376.041	3	94125.347	5.556	.008[b]
	Residual	288002.912	17	16941.348		
	Total	570378.952	20			

a. Dependent Variable: Kelimpahan_Fitoplankton

b. Predictors: (Constant), Band2, Band8, Band3

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Correlations		
		B	Std. Error	Beta			Zero-order	Partial	Part
1	(Constant)	-1181.390	1255.453		-.941	.360			
	Band8	3.616	1.073	.624	3.369	.004	.529	.633	.581
	Band3	-1.121	.861	-.351	-1.302	.210	-.381	-.301	-.224
	Band2	-.549	1.037	-.149	-.529	.604	-.214	-.127	-.091

a. Dependent Variable: Kelimpahan_Fitoplankton

Lampiran 6. Parameter Osenografi

Titik Penelitian	pH	Kekeruhan (NTU)	Salinitas (ppt)	Suhu (°C)
Titik Penelitian 1	7,14	2,63	27	29
Titik Penelitian 5	7,2	0,28	28	29
Titik Penelitian 9	7,23	0	28	30
Titik Penelitian 10	7,2	0,91	28	30
Titik Penelitian 11	7,25	3,71	26	29
Titik Penelitian 12	7,25	3,78	28	29
Titik Penelitian 16	7,3	0	28	30
Titik Penelitian 20	7,31	0	28	30
Titik Penelitian 21	7,28	0	29	30
Titik Penelitian 22	7,26	14,14	26	29
Titik Penelitian 23	7,34	6,22	29	29
Titik Penelitian 27	7,34	0,08	29	30
Titik Penelitian 31	7,36	0	29	30
Titik Penelitian 32	7,39	0	29	30
Titik Penelitian 33	7,41	7,88	29	29
Titik Penelitian 34	7,32	16,32	26	30
Titik Penelitian 38	7,39	3,15	29	30
Titik Penelitian 42	7,38	0	29	30

Lampiran 7. Dugaan Kelimpahan Fitoplankton

Titik Penelitian	Kelimpahan Fitoplankton	Dugaan Fitoplankton
3	307	610
6	493	532
7	516	628
9	977	806
10	771	647
14	464	483
15	630	620
16	820	819
17	691	491
19	713	682
20	768	696
21	731	735
25	506	438
26	482	417
27	574	519
29	419	671
30	578	551
32	593	542
38	308	399
39	482	544
41	671	663

Lampiran 8. Data Nilai Pixel Citra Sentinel-2 Berdasarkan Koordinat

Titik penelitian	Koordinat		Kelimpahan Fitoplantkon
	x	y	
1	119°33'25,670"	3°55'50,223"	295
2	119°33'10,434"	3°55'56,112"	301
3	119°32'55,336"	3°56'1,963"	307
4	119°32'40,190"	3°56'7,820"	427
5	119°32'25,068"	3°56'13,613"	446
6	119°32'9,921"	3°56'19,425"	493
7	119°31'54,737"	3°56'25,303"	516
8	119°30'39,515"	3°56'31,162"	895
9	119°31'24,293"	3°56'36,946"	977
10	119°30'57,739"	3°55'55,750"	771
11	119°32'58,954"	3°55'9,421"	561
12	119°32'30,074"	3°54'30,140"	720
13	119°32'14,936"	3°54'41,699"	400
14	119°31'59,939"	3°54'47,415"	464
15	119°31'45,025"	3°54'47,415"	630
16	119°31'29,998"	3°54'53,179"	820
17	119°31'14,772"	3°54'59,017"	691
18	119°30'59,647"	3°55'4,816"	739
19	119°30'44,356"	3°55'10,677"	713
20	119°30'29,066"	3°55'16,538"	768
21	119°30'6,070"	3°54'33,391"	731
22	119°32'7,262"	3°53'46,957"	597
23	119°31'49,153"	3°53'1,646"	388
24	119°31'34,249"	3°53'7,424"	282
25	119°31'19,030"	3°53'13,252"	506
26	119°31'3,968"	3°53'19,069"	482
27	119°30'48,788"	3°53'24,917"	574
28	119°30'33,666"	3°53'30,732"	379
29	119°30'18,483"	3°53'36,589"	419
30	119°30'3,287"	3°53'42,401"	578
31	119°29'48,166"	3°53'48,287"	529
32	119°29'30,195	3°53'2,829"	593
33	119°31'31,375"	3°52'16,180"	644
34	119°31'16,521"	3°51'29,710"	505
35	119°31'1,350"	3°51'35,516"	647
36	119°30'46,174"	3°51'41,303"	439
37	119°30'31,002"	3°51'47,088"	723
38	119°30'15,827"	3°51'52,876"	308
39	119°30'0,629"	3°51'58,662"	482
40	119°29'45,433"	3°52'4,501"	639
41	119°29'30,238"	3°52'10,266"	671
42	119°29'15,260"	3°52'16,339"	568

Lampiran 9. Uji T Paired

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Kelimpahan_Fitoplankton	594.95	21	168.876	36.852
	Dugaan_fito	594.90	21	118.809	25.926

Paired Samples Correlations

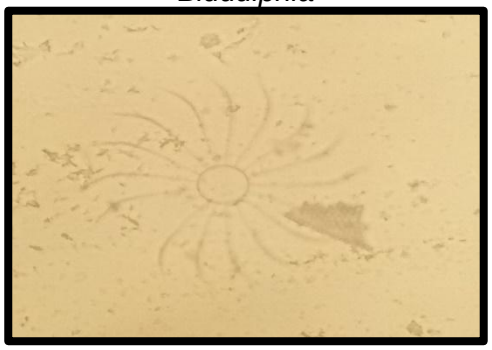
		N	Correlation	Sig.
Pair 1	Kelimpahan_Fitoplankton & Dugaan_fito	21	.704	.000

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference Lower	Upper			
Pair 1	Kelimpahan_Fitoplankton - Dugaan_fito	.048	120.002	26.187	-54.577	54.672	.002	20	.999

Lampiran 10. Dokumentasi Identifikasi Fitoplankton

Hasil identifikasi fitoplankton

Gambar	Genus
	*Cosnidiscus*
	*Biddulphia*
	*Thalassionema*
	*Asterionellopsis*
	*Rhyzosolenia*
	*Chaetoceros*

Lampiran 11. Dokumentasi Di Lapangan

Gambar 9. Pengambilan Sampel

Gambar 10. Preparasi Alat

Gambar 11. Identifikasi Sampel

Gambar 12. Identifkasi Sampel