LAMPIRAN

Lampiran 1. Dokumentasi Penelitian

Mangrove diidentifikasi dan diukur lingkar batangnya

Tutupan kanopi diukur menggunakan *hemiscpherical photography*

Instalasi keramba tancap

Udang vaname dimasukkan ke dalam keramba tancap

Pakan udang ditimbang

Pakan udang diberikan pada tiap keramba

Bobot tubuh udang vaname ditimbang

Produktivitas primer perairan diukur menggunakan metode botol gelap terang Winkler

Kualitas air berupa suhu, salinitas, oksigen terlarut, dan pH diukur secara insitu

Lampiran 2. *Principal Component Analysist* (PCA) parameter penelitian

Descriptive Statistics

	Mean	Std. Deviation	Analysis N
pertumbuhan_berat_mutlak_udang	.820741	.2707381	6
kerapatan_mangrove	1700.000000	303.3150178	6
tutupan_kanopi	.689288	.0787517	6
suhu	27.583333	.7250287	6
salinitas	2.833333	1.1690452	6
oksigen_terlarut	4.051667	.6765328	6
pH	6.201667	.6647832	6
produktivitas_primer	33.550347	4.7261619	6
ammonia	1.204667	.8497043	6
nitrit	.251167	.1274636	6

Correlation Matrix[a,b]

		pertumbuhan_berat_mutlak_udang	kerapatan_mangrove	tutupan_kanopi	suhu
Correlation	pertumbuhan_berat_mutlak_udang	1.000	.499	.723	-.009
	kerapatan_mangrove	.499	1.000	.766	-.773
	tutupan_kanopi	.723	.766	1.000	-.556
	Suhu	-.009	-.773	-.556	1.000
	Salinitas	.630	.733	.469	-.169
	oksigen_terlarut	.440	.784	.922	-.750
	pH	.753	.481	.919	-.246
	produktivitas_primer	.619	-.062	-.014	.433
	ammonia	.046	.523	.591	-.870
	nitrit	.503	.765	.955	-.661

Correlation Matrix[a,b]

		salinitas	oksigen_terlarut	pH	produktivitas_primer
Correlation	pertumbuhan_berat_mutlak_udang	.630	.440	.753	.619
	kerapatan_mangrove	.733	.784	.481	-.062
	tutupan_kanopi	.469	.922	.919	-.014
	suhu	-.169	-.750	-.246	.433
	salinitas	1.000	.365	.286	.253
	oksigen_terlarut	.365	1.000	.749	-.368
	pH	.286	.749	1.000	.124
	produktivitas_primer	.253	-.368	.124	1.000
	ammonia	-.188	.709	.438	-.323
	nitrit	.396	.983	.833	-.308

Correlation Matrix[a,b]

		ammonia	nitrit
Correlation	pertumbuhan_berat_mutlak_udang	.046	.503
	kerapatan_mangrove	.523	.765
	tutupan_kanopi	.591	.955
	suhu	-.870	-.661
	salinitas	-.188	.396
	oksigen_terlarut	.709	.983
	pH	.438	.833
	produktivitas_primer	-.323	-.308
	ammonia	1.000	.649
	nitrit	.649	1.000

a. Determinant = .000

b. This matrix is not positive definite.

Communalities

	Initial	Extraction
pertumbuhan_berat_mutlak_udang	1.000	.977
kerapatan_mangrove	1.000	.972
tutupan_kanopi	1.000	.995
suhu	1.000	.895
salinitas	1.000	.980
oksigen_terlarut	1.000	.966
pH	1.000	.961
produktivitas_primer	1.000	.745
ammonia	1.000	.834
nitrit	1.000	.953

Extraction Method: Principal Component Analysis.

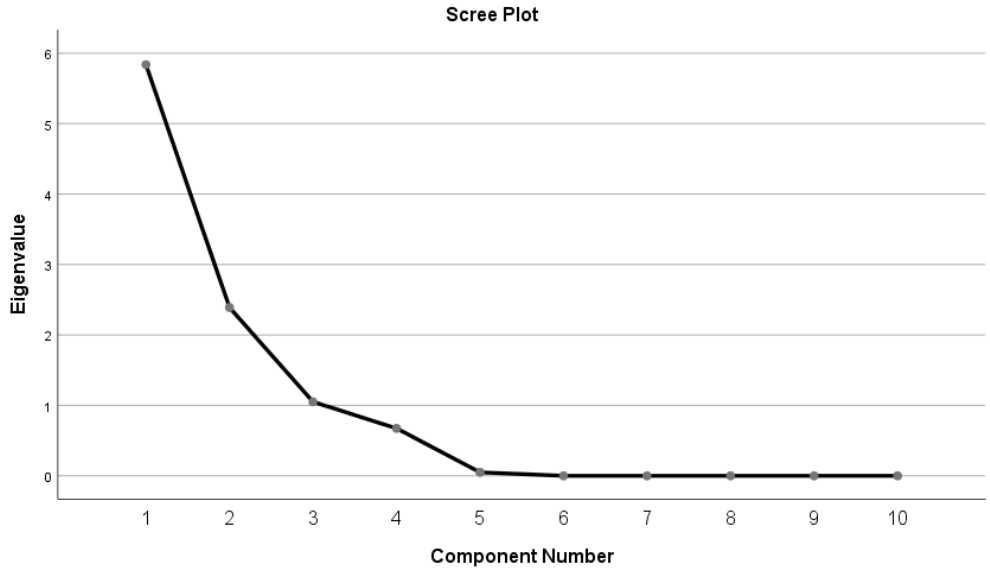
Total Variance Explained

	Initial Eigenvalues			Extraction Sums of Squared Loadings		
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	5.837	58.374	58.374	5.837	58.374	58.374
2	2.390	23.899	82.272	2.390	23.899	82.272
3	1.050	10.502	92.774	1.050	10.502	92.774
4	.674	6.735	99.510			
5	.049	.490	100.000			
6	2.397E-15	2.397E-14	100.000			
7	4.034E-16	4.034E-15	100.000			
8	1.561E-16	1.561E-15	100.000			
9	-4.147E-19	-4.147E-18	100.000			
10	-4.555E-16	-4.555E-15	100.000			

Total Variance Explained

	Rotation Sums of Squared Loadings		
Component	Total	% of Variance	Cumulative %
1	4.147	41.466	41.466
2	2.894	28.939	70.405
3	2.237	22.370	92.774
4			
5			
6			
7			
8			
9			
10			

Extraction Method: Principal Component Analysis.



Component Matrix[a]

	Component		
	1	2	3
pertumbuhan_berat_mutlak_udang	.604	.769	.145
kerapatan_mangrove	.872	.048	-.458
tutupan_kanopi	.971	.152	.170
suhu	-.727	.547	.260
salinitas	.496	.569	-.640
oksigen_terlarut	.963	-.192	.035
pH	.805	.292	.477
produktivitas_primer	-.136	.841	.138
ammonia	.683	-.558	.239
nitrit	.967	-.097	.093

Extraction Method: Principal Component Analysis.[a]

a. 3 components extracted.

Rotated Component Matrix[a]

	Component		
	1	2	3
pertumbuhan_berat_mutlak_udang	.738	-.472	.458
kerapatan_mangrove	.447	.404	.780
tutupan_kanopi	.903	.221	.363
suhu	-.306	-.835	-.323
salinitas	.166	-.175	.960
oksigen_terlarut	.741	.553	.333
pH	.975	-.034	.097
produktivitas_primer	.163	-.833	.157
ammonia	.549	.723	-.100
nitrit	.799	.457	.326

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.[a]

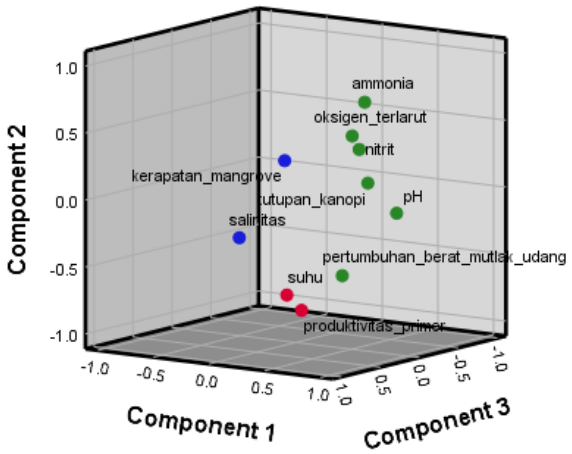
a. Rotation converged in 6 iterations.

Component Transformation Matrix

Component	1	2	3
1	.795	.404	.453
2	.230	-.891	.391
3	.561	-.207	-.801

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.



Component Score Coefficient Matrix

	Component		
	1	2	3
pertumbuhan_berat_mutlak_udang	.234	-.274	.062
kerapatan_mangrove	-.121	.132	.425
tutupan_kanopi	.238	-.023	-.030
suhu	.092	-.306	-.165
salinitas	-.220	-.052	.620
oksigen_terlarut	.131	.131	.017
pH	.393	-.147	-.254
produktivitas_primer	.136	-.350	.022
ammonia	.167	.208	-.221
nitrit	.172	.085	-.012

Extraction Method: Principal Component Analysis.

Rotation Method: Varimax with Kaiser Normalization.

Component Scores.

Component Score Covariance Matrix

Component	1	2	3
1	1.000	.000	.000
2	.000	1.000	.000
3	.000	.000	1.000