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LAMPIRAN

Lampiran 1. Pengukuran parameter lingkungan di Pulau Gusung Selayar

Parameter Lingkungan					
Suhu					
Stasiun	Ulangan	Jarak			Rata - Rata
		0 M	53 M	105 M	
1	1	33	33	33	32
	2	30	30	30	
Kisaran				30 - 33	
2	1	33	33	33	33
	2	33	33	33	
Kisaran				33	
3	1	32	32	32	31
	2	30	31	31	
Kisaran				30 - 32	
4	1	32	32	32	32
	2	32	32	32	
Kisaran				32	
Salinitas					
Stasiun	Ulangan	Jarak			Rata - Rata
		0 M	53 M	105 M	
1	1	32	32	32	31
	2	30	30	30	
Kisaran				30 - 32	
2	1	31	31	31	32
	2	32	32	32	
Kisaran				31 - 32	
3	1	30	30	30	30
	2	30	30	30	
Kisaran				30	
4	1	31	31	31	31
	2	31	31	31	
Kisaran				31	

Lampiran 2. Pengukuran bahan organik total sedimen di Pulau Gusung Selayar

Ulangan	Titik	BCK	BS	BST	BOT	%BOT	Rata - Rata
1	0	25,185	5,03	29,795	0,42	8,350	8,56
	53	21,672	5,029	26,02	0,681	13,541	
	105	29,061	5,037	33,667	0,431	8,557	
2	0	27,830	5,042	32,475	0,397	7,874	
	53	27,344	5,029	31,928	0,445	8,849	
	105	22,331	5,016	27,137	0,21	4,187	
1	0	29,46	5,023	34,158	0,325	6,470	7,97
	53	25,201	5,027	29,833	0,395	7,858	
	105	24,476	5,039	29,122	0,393	7,799	
2	0	16,825	5,017	21,379	0,463	9,229	
	53	28,303	5,026	33,039	0,29	5,770	
	105	27,795	5,007	32,268	0,534	10,665	
1	0	27,819	5,03	32,502	0,347	6,90	6,54
	53	25,705	5,036	30,489	0,252	5,00	
	105	27,201	5,029	31,864	0,366	7,28	
2	0	28,532	5,068	33,222	0,378	7,46	
	53	26,606	5,045	31,224	0,427	8,46	
	105	28,831	5,033	33,657	0,207	4,11	
1	0	22,415	5,025	27,257	0,183	3,642	5,60
	53	27,344	5,02	32,044	0,32	6,375	
	105	25,269	5,04	29,95	0,359	7,123	
2	0	27,39	5,026	32,168	0,248	4,934	
	53	27,283	5,071	32,04	0,314	6,192	
	105	30,902	5,065	35,696	0,271	5,350	

Lampiran 3. Hasil Software Gradistat Sedimen

SEIVING ERROR: 0.0% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **#1 U1 (0)** ANALYST & DATE: 5/20204

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Coarse Sand

μm		GRAN SIZE DISTRIBUTION	
MODE 1	650.0 0.747	GRAVEL: 3.7%	COARSE SAND: 41.5%
MODE 2	302.5 1.747	SAND: 95.7%	MEDIUM SAND: 25.7%
MODE 3	1200.0 -0.243	MUD: 0.6%	FINE SAND: 11.1%
D ₁₀	147.5 -0.251	V FINE SAND: 4.4%	
MEDIAN or D ₅₀	536.1 0.900	V COARSE GRAVEL: 0.0%	V COARSE SILT: 0.1%
D ₆₀	1189.9 2.762	COARSE GRAVEL: 0.0%	COARSE SILT: 0.1%
(D ₆₀ -D ₁₀)	8.990 -11.009	MEDIUM GRAVEL: 0.0%	MEDIUM SILT: 0.1%
(D ₁₀ -D ₅)	194.2 3.102	FINE GRAVEL: 0.0%	FINE SILT: 0.1%
(D ₅ -D ₃)	2344 3.065	V FINE GRAVEL: 3.7%	V FINE SILT: 0.1%
(D ₃ -D ₂)	379.5 1.229	V COARSE SAND: 13.0%	CLAY: 0.1%

METHOD OF MOMENTS		FOLK & WARD METHOD	
Arithmetic	Geometric Logarithmic	Geometric Logarithmic	Description
MEAN (T)	594.7 458.4 1.190	451.1 1.117	Medium Sand
SORTING (σ)	475.8 2.267 1.181	2.214 1.147	Poorly Sorted
SKEWNESS (S)	2.089 -0.832 0.832	-0.241 0.241	Fine Skewed
KURTOSIS (K)	8.261 5.669 5.669	1.146 1.146	Leptokurtic

SEIVING ERROR: 0.0% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **#1 U1 (0)** ANALYST & DATE: 5/20204

SAMPLE TYPE: Trimodal, Moderately Sorted TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Very Fine Gravelly Very Coarse Sand

μm		GRAN SIZE DISTRIBUTION	
MODE 1	1200.0 -0.243	GRAVEL: 10.0%	COARSE SAND: 31.6%
MODE 2	650.0 0.747	SAND: 89.2%	MEDIUM SAND: 1.8%
MODE 3	2400.0 -2.343	MUD: 0.0%	FINE SAND: 1.7%
D ₁₀	512.9 -0.036	V FINE SAND: 0.4%	
MEDIAN or D ₅₀	1079.0 -0.104	V COARSE GRAVEL: 0.0%	V COARSE SILT: 0.0%
D ₆₀	2090.0 0.963	COARSE GRAVEL: 0.0%	COARSE SILT: 0.0%
(D ₆₀ -D ₁₀)	3.997 -0.930	MEDIUM GRAVEL: 0.0%	MEDIUM SILT: 0.0%
(D ₁₀ -D ₅)	1537.1 1.999	FINE GRAVEL: 0.0%	FINE SILT: 0.0%
(D ₅ -D ₃)	2.100 -2.081	V FINE GRAVEL: 10.0%	V FINE SILT: 0.0%
(D ₃ -D ₂)	666.3 1.070	V COARSE SAND: 49.9%	CLAY: 0.0%

METHOD OF MOMENTS		FOLK & WARD METHOD	
Arithmetic	Geometric Logarithmic	Geometric Logarithmic	Description
MEAN (T)	1569.1 907.8 0.140	927.0 0.109	Coarse Sand
SORTING (σ)	664.6 1.700 0.840	1.717 0.760	Moderately Sorted
SKEWNESS (S)	1.010 -0.785 0.785	-0.361 0.361	Very Fine Skewed
KURTOSIS (K)	3.822 4.471 4.471	1.149 1.149	Leptokurtic

SEIVING ERROR: 0.7% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **#1 U1 (0)** ANALYST & DATE: 5/20204

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Very Fine Gravelly Coarse Sand

μm		GRAN SIZE DISTRIBUTION	
MODE 1	650.0 0.747	GRAVEL: 9.1%	COARSE SAND: 32.4%
MODE 2	302.5 1.747	SAND: 87.0%	MEDIUM SAND: 22.7%
MODE 3	1200.0 -0.243	MUD: 0.4%	FINE SAND: 13.4%
D ₁₀	142.2 -0.449	V FINE SAND: 4.9%	
MEDIAN or D ₅₀	548.9 0.865	V COARSE GRAVEL: 0.0%	V COARSE SILT: 0.1%
D ₆₀	1500.2 2.814	COARSE GRAVEL: 0.0%	COARSE SILT: 0.1%
(D ₆₀ -D ₁₀)	9.002 -0.267	MEDIUM GRAVEL: 0.0%	MEDIUM SILT: 0.1%
(D ₁₀ -D ₅)	1220.3 3.263	FINE GRAVEL: 0.0%	FINE SILT: 0.1%
(D ₅ -D ₃)	3716 -54.126	V FINE GRAVEL: 8.7%	V FINE SILT: 0.1%
(D ₃ -D ₂)	748.5 1.894	V COARSE SAND: 17.6%	CLAY: 0.1%

METHOD OF MOMENTS		FOLK & WARD METHOD	
Arithmetic	Geometric Logarithmic	Geometric Logarithmic	Description
MEAN (T)	708.8 478.5 1.063	481.7 1.054	Medium Sand
SORTING (σ)	628.1 2.503 1.323	2.592 1.409	Poorly Sorted
SKEWNESS (S)	1.572 -0.396 0.396	-0.159 0.159	Fine Skewed
KURTOSIS (K)	4.816 5.391 5.391	1.019 1.019	Mesokurtic

SEIVING ERROR: 0.0% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **#1 U2 (0)** ANALYST & DATE: 5/20204

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Medium Sand

μm		GRAN SIZE DISTRIBUTION	
MODE 1	302.5 1.747	GRAVEL: 3.3%	COARSE SAND: 27.8%
MODE 2	650.0 0.747	SAND: 95.0%	MEDIUM SAND: 33.1%
MODE 3	152.5 2.737	MUD: 0.9%	FINE SAND: 17.1%
D ₁₀	122.1 -0.195	V FINE SAND: 6.5%	
MEDIAN or D ₅₀	325.5 1.614	V COARSE GRAVEL: 0.0%	V COARSE SILT: 0.1%
D ₆₀	1141.9 2.820	COARSE GRAVEL: 0.0%	COARSE SILT: 0.1%
(D ₆₀ -D ₁₀)	8.544 -15.255	MEDIUM GRAVEL: 0.0%	MEDIUM SILT: 0.1%
(D ₁₀ -D ₅)	1099.8 3.112	FINE GRAVEL: 0.0%	FINE SILT: 0.1%
(D ₅ -D ₃)	2478 2.902	V FINE GRAVEL: 3.3%	V FINE SILT: 0.1%
(D ₃ -D ₂)	370.2 1.369	V COARSE SAND: 11.0%	CLAY: 0.1%

METHOD OF MOMENTS		FOLK & WARD METHOD	
Arithmetic	Geometric Logarithmic	Geometric Logarithmic	Description
MEAN (T)	511.9 353.8 1.479	323.9 1.626	Medium Sand
SORTING (σ)	474.1 2.417 1.273	2.252 1.171	Poorly Sorted
SKEWNESS (S)	2.200 -0.658 0.658	-0.010 0.010	Symmetrical
KURTOSIS (K)	9.001 5.001 5.001	1.275 1.275	Leptokurtic

SEIVING ERROR: 0.0% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **#1 U2 (0)** ANALYST & DATE: 5/20204

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Very Fine Gravelly Coarse Sand

μm		GRAN SIZE DISTRIBUTION	
MODE 1	650.0 0.747	GRAVEL: 8.7%	COARSE SAND: 46.7%
MODE 2	1200.0 -0.243	SAND: 81.1%	MEDIUM SAND: 14.8%
MODE 3	302.5 1.747	MUD: 0.2%	FINE SAND: 8.4%
D ₁₀	168.1 -0.451	V FINE SAND: 3.0%	
MEDIAN or D ₅₀	597.2 0.744	V COARSE GRAVEL: 0.0%	V COARSE SILT: 0.0%
D ₆₀	1366.8 2.573	COARSE GRAVEL: 0.0%	COARSE SILT: 0.0%
(D ₆₀ -D ₁₀)	8.133 -5.708	MEDIUM GRAVEL: 0.0%	MEDIUM SILT: 0.0%
(D ₁₀ -D ₅)	1198.7 3.024	FINE GRAVEL: 0.0%	FINE SILT: 0.0%
(D ₅ -D ₃)	3.016 -29.478	V FINE GRAVEL: 8.7%	V FINE SILT: 0.0%
(D ₃ -D ₂)	680.1 1.580	V COARSE SAND: 18.3%	CLAY: 0.0%

METHOD OF MOMENTS		FOLK & WARD METHOD	
Arithmetic	Geometric Logarithmic	Geometric Logarithmic	Description
MEAN (T)	770.2 571.1 0.808	587.6 0.767	Coarse Sand
SORTING (σ)	597.7 2.224 1.153	2.227 1.150	Poorly Sorted
SKEWNESS (S)	1.607 -0.578 0.578	-0.040 0.040	Symmetrical
KURTOSIS (K)	5.068 4.232 4.232	1.053 1.053	Mesokurtic

SEIVING ERROR: 1.2% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **#1 U2 (0)** ANALYST & DATE: 5/20204

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Very Fine Gravelly Coarse Sand

μm		GRAN SIZE DISTRIBUTION	
MODE 1	650.0 0.747	GRAVEL: 6.3%	COARSE SAND: 44.2%
MODE 2	302.5 1.747	SAND: 93.6%	MEDIUM SAND: 17.2%
MODE 3	1200.0 -0.243	MUD: 0.0%	FINE SAND: 12.0%
D ₁₀	159.2 -0.372	V FINE SAND: 3.7%	
MEDIAN or D ₅₀	588.9 0.814	V COARSE GRAVEL: 0.0%	V COARSE SILT: 0.0%
D ₆₀	1264.4 2.735	COARSE GRAVEL: 0.0%	COARSE SILT: 0.0%
(D ₆₀ -D ₁₀)	8.617 -3.346	MEDIUM GRAVEL: 0.0%	MEDIUM SILT: 0.0%
(D ₁₀ -D ₅)	1144.2 3.107	FINE GRAVEL: 0.0%	FINE SILT: 0.0%
(D ₅ -D ₃)	2.327 3.100	V FINE GRAVEL: 6.3%	V FINE SILT: 0.0%
(D ₃ -D ₂)	395.6 1.218	V COARSE SAND: 15.8%	CLAY: 0.0%

METHOD OF MOMENTS		FOLK & WARD METHOD	
Arithmetic	Geometric Logarithmic	Geometric Logarithmic	Description
MEAN (T)	685.2 499.6 1.001	497.7 1.036	Medium Sand
SORTING (σ)	552.7 2.241 1.154	2.429 1.281	Poorly Sorted
SKEWNESS (S)	1.906 -0.340 0.340	-0.152 0.152	Fine Skewed
KURTOSIS (K)	6.208 3.176 3.176	1.382 1.382	Leptokurtic

SEIVING ERROR: 0.1% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **#2 U1 (0)** ANALYST & DATE: 5/20204

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Very Fine Gravelly Coarse Sand

μm		GRAN SIZE DISTRIBUTION	
MODE 1	650.0 0.747	GRAVEL: 5.0%	COARSE SAND: 46.2%
MODE 2	302.5 1.747	SAND: 93.3%	MEDIUM SAND: 19.1%
MODE 3	1200.0 -0.243	MUD: 0.2%	FINE SAND: 12.0%
D ₁₀	152.1 -0.391	V FINE SAND: 3.3%	
MEDIAN or D ₅₀	570.5 0.810	V COARSE GRAVEL: 0.0%	V COARSE SILT: 0.0%
D ₆₀	1303.5 2.745	COARSE GRAVEL: 0.0%	COARSE SILT: 0.1%
(D ₆₀ -D ₁₀)	8.737 -7.177	MEDIUM GRAVEL: 0.0%	MEDIUM SILT: 0.1%
(D ₁₀ -D ₅)	1154.3 3.167	FINE GRAVEL: 0.0%	FINE SILT: 0.1%
(D ₅ -D ₃)	2.431 3.531	V FINE GRAVEL: 5.2%	V FINE SILT: 0.1%
(D ₃ -D ₂)	414.4 1.282	V COARSE SAND: 17.9%	CLAY: 0.1%

METHOD OF MOMENTS		FOLK & WARD METHOD	
Arithmetic	Geometric Logarithmic	Geometric Logarithmic	Description
MEAN (T)	680.0 465.5 0.981	552.5 0.856	Coarse Sand
SORTING (σ)	562.7 2.284 1.192	2.246 1.168	Poorly Sorted
SKEWNESS (S)	1.701 -0.478 0.478	-0.056 0.056	Symmetrical
KURTOSIS (K)	5.760 3.016 3.016	1.327 1.327	Leptokurtic

SEIVING ERROR: 0.6% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **#2 U1 (0)** ANALYST & DATE: 5/20204

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Very Fine Gravelly Coarse Sand

μm		GRAN SIZE DISTRIBUTION	
MODE 1	650.0 0.747	GRAVEL: 5.2%	COARSE SAND: 37.7%
MODE 2	302.5 1.747	SAND: 95.4%	MEDIUM SAND: 22.8%
MODE 3	1200.0 -0.243	MUD: 0.4%	FINE SAND: 10.6%
D ₁₀	149.2 -0.382	V FINE SAND: 4.5%	
MEDIAN or D ₅₀	557.7 0.842	V COARSE GRAVEL: 0.0%	V COARSE SILT: 0.1%
D ₆₀	1303.5 2.745	COARSE GRAVEL: 0.0%	COARSE SILT: 0.1%
(D ₆₀ -D ₁₀)	8.737 -7.177	MEDIUM GRAVEL: 0.0%	MEDIUM SILT: 0.1%
(D ₁₀ -D ₅)	1154.3 3.167	FINE GRAVEL: 0.0%	FINE SILT: 0.1%
(D ₅ -D ₃)	2.431 3.531	V FINE GRAVEL: 5.2%	V FINE SILT: 0.1%
(D ₃ -D ₂)	414.4 1.282	V COARSE SAND: 17.9%	CLAY: 0.1%

METHOD OF MOMENTS		FOLK & WARD METHOD	
Arithmetic	Geometric Logarithmic	Geometric Logarithmic	Description
MEAN (T)	680.0 465.5 0.981	552.5 0.856	Coarse Sand
SORTING (σ)	560.3 2.332 1.234	2.232 1.171	Poorly Sorted
SKEWNESS (S)	1.718 -0.596 0.596	-0.045 0.045	Symmetrical
KURTOSIS (K)	5.841 4.311 4.311	1.387 1.387	Leptokurtic

SEIVING ERROR: 0.9% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **#2 U1 (0)** ANALYST & DATE: 5/20204

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Very Fine Gravelly Coarse Sand

μm		GRAN SIZE DISTRIBUTION	
MODE 1	650.0 0.747	GRAVEL: 5.0%	COARSE SAND: 46.2%
MODE 2	302.5 1.747	SAND: 94.9%	MEDIUM SAND: 19.9%
MODE 3	1200.0 -0.243	MUD: 0.1%	FINE SAND: 10.8%
D ₁₀	160.7 -0.330	V FINE SAND: 2.5%	
MEDIAN or D ₅₀	567.6 0.817	V COARSE GRAVEL: 0.0%	V COARSE SILT: 0.0%
D ₆₀	1207.1 2.637	COARSE GRAVEL: 0.0%	COARSE SILT: 0.0%
(D ₆₀ -D ₁₀)	7.922 -7.991	MEDIUM GRAVEL: 0.0%	MEDIUM SILT: 0.0%
(D ₁₀ -D ₅)	1064.4 2.869	FINE GRAVEL: 0.0%	FINE SILT: 0.0%
(D ₅ -D ₃)	2.237 3.140	V FINE GRAVEL: 5.0%	V FINE SILT: 0.0%
(D ₃ -D ₂)	379.6 1.162	V COARSE SAND: 15.5%	CLAY: 0.0%

METHOD OF MOMENTS		FOLK & WARD METHOD	
Arithmetic	Geometric Logarithmic	Geometric Logarithmic	Description
MEAN (T)	664.9 504.8 0.966	547.4 0.969	Coarse Sand
SORTING (σ)	510.8 2.117 1.082	2.154 1.107	Poorly Sorted
SKEWNESS (S)	1.930 -0.383 0.383	-0.069 0.069	Symmetrical
KURTOSIS (K)	7.086 3.678 3.678	1.376 1.376	Leptokurtic

SEIVING ERROR: 0.4% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **#2 U2 (0)** ANALYST & DATE: 5/20204

SAMPLE TYPE: Trimodal, Poorly Sorted TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Very Fine Gravelly Coarse Sand

μm		GRAN SIZE DISTRIBUTION	
MODE 1	650.0 0.747	GRAVEL: 5.4%	COARSE SAND: 32.5%
MODE 2	302.5 1.747	SAND: 94.6%	MEDIUM SAND: 18.8%
MODE 3	1200.0 -0.243	MUD: 0.0%	FINE SAND: 5.1%
D ₁₀	283.2 -0.347	V FINE SAND: 1.1%	
MEDIAN or D ₅₀	586.9 0.769	V COARSE GRAVEL: 0.0%	V COARSE SILT: 0.0%
D ₆₀	1272.0 1.935	COARSE GRAVEL: 0.0%	COARSE SILT: 0.0%
(D ₆₀ -D ₁₀)	4.833 -5.548	MEDIUM GRAVEL: 0.0%	MEDIUM SILT: 0.0%
(D ₁₀ -D ₅)	1008.8 2.273	FINE GRAVEL: 0.0%	FINE SILT: 0.0%
(D ₅ -D ₃)	1.992 2.884	V FINE GRAVEL: 5.4%	V FINE SILT: 0.0%
(D ₃ -D ₂)	345.4 0.994	V COARSE SAND: 16.1%	CLAY: 0.0%

METHOD OF MOMENTS		FOLK & WARD METHOD	
Arithmetic	Geometric Logarithmic	Geometric Logarithmic	Description
MEAN (T)	707.4 564.8 0.824	578.7 0.789	Coarse Sand
SORTING (σ)	503.8 1.933 0.951	2.062 1.044	Poorly Sorted
SKEWNESS (S)	1.998 -0.278 0.278	-0.028 0.028</	

SEWING ERROR: 0.0% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **S3 U1 (8)** ANALYST & DATE: 5/22/2024

SAMPLE TYPE: Polymold, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Coarse Sand

GRAIN SIZE DISTRIBUTION			
MODE	µm	φ	
MODE 1	650.0	0.747	GRAVEL 4.4% COARSE SAND 40.9%
MODE 2	1200.0	-0.243	SAID 95.4% MEDIUM SAND 18.6%
MODE 3	302.5	1.747	MUD 0.2% FINE SAND 9.7%
D ₅₀	190.2	-0.367	V FINE SAND 3.2%
MEDIAN (D ₅₀)	584.7	0.774	V COARSE GRAVEL 0.0% V COARSE SILT 0.0%
D ₁₀	120.4	2.542	COARSE GRAVEL 0.0% COARSE SILT 0.0%
(D ₁₀ -D ₅)	8.48	-2.296	MEDIUM GRAVEL 0.0% MEDIUM SILT 0.0%
(D ₁₀ -D ₃)	1129.2	3.009	FINE GRAVEL 0.0% FINE SILT 0.0%
(D ₁₀ -D ₂)	331.0	-3.036	V FINE GRAVEL 0.4% V FINE SILT 0.0%
(D ₁₀ -D ₁)	720.3	1.727	V COARSE SAND 23.0% CLAY 0.0%

METHOD OF MOMENTS				FOLK & WARD METHOD			
Arithmetic	Geometric	Logarithmic	µm	φ	Arithmetic	Geometric	Logarithmic
MEAN (F)	701.9	528.8	0.919	957.0	0.919	Coarse Sand	
SORTING (G)	598.5	2.201	1.138	2.075	1.053	Poorly Sorted	
SKEWNESS (S)	1.559	-0.578	0.678	-1.162	0.142	Fine Skewed	
KURTOSIS (K)	5.897	4.163	4.163	0.803	0.803	Platykurtic	

SEWING ERROR: 1.0% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **S3 U2 (8)** ANALYST & DATE: 5/22/2024

SAMPLE TYPE: Polymold, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Coarse Sand

GRAIN SIZE DISTRIBUTION			
MODE	µm	φ	
MODE 1	650.0	0.747	GRAVEL 2.6% COARSE SAND 42.8%
MODE 2	1200.0	-0.243	SAID 97.2% MEDIUM SAND 19.5%
MODE 3	302.5	1.747	MUD 0.2% FINE SAND 10.5%
D ₅₀	156.4	-0.314	V FINE SAND 3.3%
MEDIAN (D ₅₀)	571.9	0.695	V COARSE GRAVEL 0.0% V COARSE SILT 0.0%
D ₁₀	124.9	2.277	COARSE GRAVEL 0.0% COARSE SILT 0.0%
(D ₁₀ -D ₅)	7.60	-4.521	MEDIUM GRAVEL 0.0% MEDIUM SILT 0.0%
(D ₁₀ -D ₃)	1086.9	2.991	FINE GRAVEL 0.0% FINE SILT 0.0%
(D ₁₀ -D ₂)	230.8	3.363	V FINE GRAVEL 2.6% V FINE SILT 0.0%
(D ₁₀ -D ₁)	397.8	1.206	V COARSE SAND 21.0% CLAY 0.0%

METHOD OF MOMENTS				FOLK & WARD METHOD			
Arithmetic	Geometric	Logarithmic	µm	φ	Arithmetic	Geometric	Logarithmic
MEAN (F)	550.9	498.2	1.085	559.9	0.980	Coarse Sand	
SORTING (G)	452.7	2.161	1.112	2.056	1.040	Poorly Sorted	
SKEWNESS (S)	1.561	-0.777	0.777	-0.170	0.170	Fine Skewed	
KURTOSIS (K)	6.525	4.509	4.509	1.140	1.140	Leptokurtic	

SEWING ERROR: 0.0% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **S3 U1 (9)** ANALYST & DATE: 5/22/2024

SAMPLE TYPE: Gravel, Moderately Sorted TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Very Fine Gravelly Very Coarse Sand

GRAIN SIZE DISTRIBUTION			
MODE	µm	φ	
MODE 1	1200.0	-0.243	GRAVEL 6.5% COARSE SAND 50.9%
MODE 2	650.0	0.747	SAID 93.5% MEDIUM SAND 3.5%
MODE 3	302.5	1.747	MUD 0.0% FINE SAND 2.6%
D ₅₀	508.9	-0.453	V FINE SAND 0.4%
MEDIAN (D ₅₀)	1054.3	-0.076	V COARSE GRAVEL 0.0% V COARSE SILT 0.0%
D ₁₀	138.7	0.975	COARSE GRAVEL 0.0% COARSE SILT 0.0%
(D ₁₀ -D ₅)	2.690	-1.152	MEDIUM GRAVEL 0.0% MEDIUM SILT 0.0%
(D ₁₀ -D ₃)	698.9	1.427	FINE GRAVEL 0.0% FINE SILT 0.0%
(D ₁₀ -D ₂)	2.085	-2.402	V FINE GRAVEL 0.5%
(D ₁₀ -D ₁)	648.9	1.990	V COARSE SAND 51.6% CLAY 0.0%

METHOD OF MOMENTS				FOLK & WARD METHOD			
Arithmetic	Geometric	Logarithmic	µm	φ	Arithmetic	Geometric	Logarithmic
MEAN (F)	999.3	895.5	0.224	999.3	0.137	Coarse Sand	
SORTING (G)	488.1	1.703	0.826	1.697	0.763	Moderately Sorted	
SKEWNESS (S)	1.016	-1.009	1.009	-0.356	0.356	Very Fine Skewed	
KURTOSIS (K)	4.664	4.946	4.946	1.130	1.130	Leptokurtic	

SEWING ERROR: 0.7% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **S3 U2 (8)** ANALYST & DATE: 5/22/2024

SAMPLE TYPE: Trimodal, Moderately Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Coarse Sand

GRAIN SIZE DISTRIBUTION			
MODE	µm	φ	
MODE 1	650.0	0.747	GRAVEL 4.0% COARSE SAND 40.8%
MODE 2	1200.0	-0.243	SAID 95.7% MEDIUM SAND 9.6%
MODE 3	302.5	1.747	MUD 0.0% FINE SAND 6.5%
D ₅₀	270.1	-1.407	V FINE SAND 1.4%
MEDIAN (D ₅₀)	623.0	0.815	V COARSE GRAVEL 0.0% V COARSE SILT 0.0%
D ₁₀	132.2	1.888	COARSE GRAVEL 0.0% COARSE SILT 0.0%
(D ₁₀ -D ₅)	439.0	-4.636	MEDIUM GRAVEL 0.0% MEDIUM SILT 0.0%
(D ₁₀ -D ₃)	1056.2	2.296	FINE GRAVEL 0.0% FINE SILT 0.0%
(D ₁₀ -D ₂)	2163	1.303	V FINE GRAVEL 0.3% V FINE SILT 0.0%
(D ₁₀ -D ₁)	618.6	1.110	V COARSE SAND 35.5% CLAY 0.0%

METHOD OF MOMENTS				FOLK & WARD METHOD			
Arithmetic	Geometric	Logarithmic	µm	φ	Arithmetic	Geometric	Logarithmic
MEAN (F)	627.4	670.0	0.578	650.5	0.620	Coarse Sand	
SORTING (G)	490.3	1.981	0.996	1.941	0.987	Moderately Sorted	
SKEWNESS (S)	1.194	-0.572	0.872	-1.162	0.142	Fine Skewed	
KURTOSIS (K)	5.114	4.119	4.119	1.173	1.173	Leptokurtic	

SEWING ERROR: 0.1% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **S3 U2 (8)** ANALYST & DATE: 5/22/2024

SAMPLE TYPE: Polymold, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Coarse Sand

GRAIN SIZE DISTRIBUTION			
MODE	µm	φ	
MODE 1	650.0	0.747	GRAVEL 4.9% COARSE SAND 40.8%
MODE 2	1200.0	-0.243	SAID 94.9% MEDIUM SAND 14.1%
MODE 3	302.5	1.747	MUD 0.2% FINE SAND 8.5%
D ₅₀	170.3	4.400	V FINE SAND 2.5%
MEDIAN (D ₅₀)	617.9	0.696	V COARSE GRAVEL 0.0% V COARSE SILT 0.0%
D ₁₀	119.4	2.554	COARSE GRAVEL 0.0% COARSE SILT 0.0%
(D ₁₀ -D ₅)	7.747	-6.385	MEDIUM GRAVEL 0.0% MEDIUM SILT 0.0%
(D ₁₀ -D ₃)	1148.1	2.954	FINE GRAVEL 0.0% FINE SILT 0.0%
(D ₁₀ -D ₂)	3155	-10.184	V FINE GRAVEL 4.9% V FINE SILT 0.0%
(D ₁₀ -D ₁)	756.9	1.657	V COARSE SAND 28.9% CLAY 0.0%

METHOD OF MOMENTS				FOLK & WARD METHOD			
Arithmetic	Geometric	Logarithmic	µm	φ	Arithmetic	Geometric	Logarithmic
MEAN (F)	769.3	589.2	0.763	597.9	0.742	Coarse Sand	
SORTING (G)	521.2	2.182	1.125	2.056	1.040	Poorly Sorted	
SKEWNESS (S)	1.344	-0.901	0.901	-0.181	0.181	Fine Skewed	
KURTOSIS (K)	5.184	4.813	4.813	0.828	0.828	Platykurtic	

SEWING ERROR: 0.2% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **S4 U2 (10)** ANALYST & DATE: 5/22/2024

SAMPLE TYPE: Polymold, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Coarse Sand

GRAIN SIZE DISTRIBUTION			
MODE	µm	φ	
MODE 1	650.0	0.747	GRAVEL 4.9% COARSE SAND 40.5%
MODE 2	1200.0	-0.243	SAID 95.0% MEDIUM SAND 16.7%
MODE 3	302.5	1.747	MUD 0.1% FINE SAND 10.7%
D ₅₀	161.7	-0.385	V FINE SAND 2.2%
MEDIAN (D ₅₀)	560.0	0.749	V COARSE GRAVEL 0.0% V COARSE SILT 0.0%
D ₁₀	130.7	2.629	COARSE GRAVEL 0.0% COARSE SILT 0.0%
(D ₁₀ -D ₅)	8.075	-6.500	MEDIUM GRAVEL 0.0% MEDIUM SILT 0.0%
(D ₁₀ -D ₃)	1144.0	3.913	FINE GRAVEL 0.0% FINE SILT 0.0%
(D ₁₀ -D ₂)	3324	-18.203	V FINE GRAVEL 4.9% V FINE SILT 0.0%
(D ₁₀ -D ₁)	744.3	1.733	V COARSE SAND 24.7% CLAY 0.0%

METHOD OF MOMENTS				FOLK & WARD METHOD			
Arithmetic	Geometric	Logarithmic	µm	φ	Arithmetic	Geometric	Logarithmic
MEAN (F)	727.5	550.2	0.862	574.7	0.799	Coarse Sand	
SORTING (G)	523.3	2.178	1.123	2.076	1.054	Poorly Sorted	
SKEWNESS (S)	1.491	-0.562	0.562	-0.167	0.167	Fine Skewed	
KURTOSIS (K)	5.545	3.675	3.675	0.793	0.793	Platykurtic	

SEWING ERROR: 0.8% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **S4 U1 (8)** ANALYST & DATE: 5/22/2024

SAMPLE TYPE: Polymold, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Coarse Sand

GRAIN SIZE DISTRIBUTION			
MODE	µm	φ	
MODE 1	650.0	0.747	GRAVEL 2.2% COARSE SAND 40.3%
MODE 2	1200.0	-0.243	SAID 97.8% MEDIUM SAND 20.2%
MODE 3	302.5	1.747	MUD 0.0% FINE SAND 15.2%
D ₅₀	146.8	4.077	V FINE SAND 2.8%
MEDIAN (D ₅₀)	548.7	0.866	V COARSE GRAVEL 0.0% V COARSE SILT 0.0%
D ₁₀	121.5	2.788	COARSE GRAVEL 0.0% COARSE SILT 0.0%
(D ₁₀ -D ₅)	8.253	-10.003	MEDIUM GRAVEL 0.0% MEDIUM SILT 0.0%
(D ₁₀ -D ₃)	1064.7	3.046	FINE GRAVEL 0.0% FINE SILT 0.0%
(D ₁₀ -D ₂)	2487	3.553	V FINE GRAVEL 2.2% V FINE SILT 0.0%
(D ₁₀ -D ₁)	404.9	1.299	V COARSE SAND 18.2% CLAY 0.0%

METHOD OF MOMENTS				FOLK & WARD METHOD			
Arithmetic	Geometric	Logarithmic	µm	φ	Arithmetic	Geometric	Logarithmic
MEAN (F)	622.7	654.9	1.137	654.1	1.108	Medium Sand	
SORTING (G)	441.0	2.162	1.112	2.254	1.179	Poorly Sorted	
SKEWNESS (S)	1.646	-0.415	0.415	-0.253	0.253	Fine Skewed	
KURTOSIS (K)	6.919	3.085	3.085	1.054	1.054	Mesokurtic	

SEWING ERROR: 0.3% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **S4 U1 (8)** ANALYST & DATE: 5/22/2024

SAMPLE TYPE: Polymold, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Sand

SEDIMENT NAME: Slightly Very Fine Gravelly Coarse Sand

GRAIN SIZE DISTRIBUTION			
MODE	µm	φ	
MODE 1	650.0	0.747	GRAVEL 2.1% COARSE SAND 48.2%
MODE 2	1200.0	-0.243	SAID 97.8% MEDIUM SAND 17.0%
MODE 3	302.5	1.747	MUD 0.0% FINE SAND 14.0%
D ₅₀	151.8	-0.249	V FINE SAND 2.5%
MEDIAN (D ₅₀)	563.6	0.827	V COARSE GRAVEL 0.0% V COARSE SILT 0.0%
D ₁₀	118.8	2.720	COARSE GRAVEL 0.0% COARSE SILT 0.0%
(D ₁₀ -D ₅)	71.00	-15.927	MEDIUM GRAVEL 0.0% MEDIUM SILT 0.0%
(D ₁₀ -D ₃)	1056.5	2.989	FINE GRAVEL 0.0% FINE SILT 0.0%
(D ₁₀ -D ₂)	2272	3.096	V FINE GRAVEL 2.1% V FINE SILT 0.0%
(D ₁₀ -D ₁)	378.5	1.184	V COARSE SAND 16.1% CLAY 0.0%

METHOD OF MOMENTS				FOLK & WARD METHOD			
Arithmetic	Geometric	Logarithmic	µm	φ	Arithmetic	Geometric	Logarithmic
MEAN (F)	611.2	476.2	1.070	471.5	1.085	Medium Sand	
SORTING (G)	421.4	2.958	1.048	2.207	1.142	Poorly Sorted	
SKEWNESS (S)	1.783	-0.511	0.511	-0.280	0.280	Fine Skewed	
KURTOSIS (K)	7.899	3.184	3.184	1.145	1.145	Leptokurtic	

SEWING ERROR: 0.9% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **S4 U1 (10)** ANALYST & DATE: 5/22/2024

SAMPLE TYPE: Polymold, Poorly Sorted TEXTURAL GROUP: Gravelly Sand

SEDIMENT NAME: Very Fine Gravelly Coarse Sand

GRAIN SIZE DISTRIBUTION			
MODE	µm	φ	
MODE 1	650.0	0.747	GRAVEL 1.7% COARSE SAND 51.8%
MODE 2	1200.0	-0.243	SAID 92.5% MEDIUM SAND 19.6%
MODE 3	302.5	1.747	MUD 0.1% FINE SAND 16.9%
D ₅₀	144.2	-0.404	V FINE SAND 3.0%
MEDIAN (D ₅₀)	558.6	0.840	V COARSE GRAVEL 0.0% V COARSE SILT 0.0%
D ₁₀	134.1	2.794	COARSE GRAVEL 0.0% COARSE SILT 0.0%
(D ₁₀ -D ₅)	9.307	-6.980	MEDIUM GRAVEL 0.0% MEDIUM SILT 0.0%
(D ₁₀ -D ₃)	1197.5	3.219	FINE GRAVEL 0.0% FINE SILT 0.0%
(D ₁₀ -D ₂)	3.075	-25.073	V FINE GRAVEL 1.4% V FINE SILT 0.0%
(D ₁₀ -D ₁)	781.5	1.984	V COARSE SAND 20.9% CLAY 0.0%

METHOD OF MOMENTS				FOLK & WARD METHOD			
Arithmetic	Geometric	Logarithmic	µm	φ	Arithmetic	Geometric	Logarithmic
MEAN (F)	707.3	488.9	0.932	481.4	1.055	Medium Sand	
SORTING (G)	602.3	2.417	1.273	2.041	1.345	Poorly Sorted	
SKEWNESS (S)	1.516	-0.249	0.249	-0.125	0.125	Fine Skewed	
KURTOSIS (K)	4.990	2.798	2.798	0.961	0.961	Platykurtic	

SEWING ERROR: 0.0% **SAMPLE STATISTICS**

SAMPLE IDENTITY: **S4 U2 (8)**

Lampiran 4. Hasil Uji One Way Anova Tutupan Lamun

Descriptives

Lamun

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Stasiun 1	2	19.5350	.04950	.03500	19.0903	19.9797	19.50	19.57
Stasiun 2	2	13.6400	1.51321	1.07000	.0444	27.2356	12.57	14.71
Stasiun 3	2	12.9650	.40305	.28500	9.3437	16.5863	12.68	13.25
Stasiun 4	2	11.7150	.45962	.32500	7.5855	15.8445	11.39	12.04
Total	8	14.4638	3.27462	1.15775	11.7261	17.2014	11.39	19.57

ANOVA

Lamun

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	72.396	3	24.132	36.208	.002
Within Groups	2.666	4	.666		
Total	75.062	7			

Lampiran 4. Lanjutan

Lamun

Tukey HSD

Stasiun	N	Subset for alpha = 0.05	
		1	2
Stasiun 4	2	11.7150	
Stasiun 3	2	12.9650	
Stasiun 2	2	13.6400	
Stasiun 1	2		19.5350
Sig.		.228	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 2.000.

Lampiran 4. Lanjutan

Post Hoc Test

Multiple Comparisons

Dependent Variable: Lamun

Tukey HSD

(I) Stasiun	(J) Stasiun	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
	Stasiun 2	5.89500*	.81639	.007	2.5716	9.2184
Stasiun 1	Stasiun 3	6.57000*	.81639	.004	3.2466	9.8934
	Stasiun 4	7.82000*	.81639	.002	4.4966	11.1434
	Stasiun 1	-5.89500*	.81639	.007	-9.2184	-2.5716
Stasiun 2	Stasiun 3	.67500	.81639	.840	-2.6484	3.9984
	Stasiun 4	1.92500	.81639	.228	-1.3984	5.2484
	Stasiun 1	-6.57000*	.81639	.004	-9.8934	-3.2466
Stasiun 3	Stasiun 2	-.67500	.81639	.840	-3.9984	2.6484
	Stasiun 4	1.25000	.81639	.499	-2.0734	4.5734
	Stasiun 1	-7.82000*	.81639	.002	-11.1434	-4.4966
Stasiun 4	Stasiun 2	-1.92500	.81639	.228	-5.2484	1.3984
	Stasiun 3	-1.25000	.81639	.499	-4.5734	2.0734

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

Lampiran 5. Uji One Way Kelimpahan Echinodermata

Descriptives

Echino

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Stasiun 1	2	3.050	1.3435	.9500	-9.021	15.121	2.1	4.0
Stasiun 2	2	3.200	2.2627	1.6000	-17.130	23.530	1.6	4.8
Stasiun 3	2	6.800	.9899	.7000	-2.094	15.694	6.1	7.5
Stasiun 4	2	2.900	.8485	.6000	-4.724	10.524	2.3	3.5
Total	8	3.988	2.0636	.7296	2.262	5.713	1.6	7.5

ANOVA

Echino

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	21.184	3	7.061	3.275	.141
Within Groups	8.625	4	2.156		
Total	29.809	7			

Lampiran 5. Lanjutan

Echino

Tukey HSD

Stasiun	N	Subset for alpha = 0.05
		1
Stasiun 4	2	2.900
Stasiun 1	2	3.050
Stasiun 2	2	3.200
Stasiun 3	2	6.800
Sig.		.171

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 2.000.

Lampiran 6. Uji Korelasi Pearson Hubungan antara Echinodermata dengan Parameter Lingkungan

		Correlations					
		Echino	Lamun	Suhu	Salinitas	BOT	Substrat
Echino	Pearson Correlation	1	-.299	-.267	-.242	.054	.707*
	Sig. (2-tailed)		.471	.522	.564	.898	.050
	N	8	8	8	8	8	8
Lamun	Pearson Correlation	-.299	1	-.114	.054	.620	.037
	Sig. (2-tailed)	.471		.788	.899	.101	.930
	N	8	8	8	8	8	8
Suhu	Pearson Correlation	-.267	-.114	1	.807*	.442	.207
	Sig. (2-tailed)	.522	.788		.016	.273	.624
	N	8	8	8	8	8	8
Salinitas	Pearson Correlation	-.242	.054	.807*	1	.646	-.023
	Sig. (2-tailed)	.564	.899	.016		.083	.957
	N	8	8	8	8	8	8
BOT	Pearson Correlation	.054	.620	.442	.646	1	.422
	Sig. (2-tailed)	.898	.101	.273	.083		.297
	N	8	8	8	8	8	8
Substrat	Pearson Correlation	.707*	.037	.207	-.023	.422	1
	Sig. (2-tailed)	.050	.930	.624	.957	.297	
	N	8	8	8	8	8	8

*. Correlation is significant at the 0.05 level (2-tailed).

Lampiran 7. Uji Korelasi Pearson Hubungan Tutupan Lamun dengan Jenis Spesies Echinodermata

Correlations

		Lamun	Protoreaster	Diadema	Tripneustus	Echinox	Pearsonothuria	Bohadschia
Lamun	Pearson Correlation	1	-.339	-.762*	.603	.127	.030	.275
	Sig. (2-tailed)		.411	.028	.114	.764	.943	.510
	N	8	8	8	8	8	8	8
Protoreaster	Pearson Correlation	-.339	1	-.007	-.149	.220	-.289	-.231
	Sig. (2-tailed)	.411		.986	.725	.601	.488	.582
	N	8	8	8	8	8	8	8
Diadema	Pearson Correlation	-.762*	-.007	1	-.512	-.297	-.298	-.153
	Sig. (2-tailed)	.028	.986		.194	.475	.474	.718
	N	8	8	8	8	8	8	8
Tripneustus	Pearson Correlation	.603	-.149	-.512	1	-.391	-.168	.063
	Sig. (2-tailed)	.114	.725	.194		.338	.690	.883
	N	8	8	8	8	8	8	8
Echinox	Pearson Correlation	.127	.220	-.297	-.391	1	-.137	.679
	Sig. (2-tailed)	.764	.601	.475	.338		.746	.064
	N	8	8	8	8	8	8	8
Pearsonothuria	Pearson Correlation	.030	-.289	-.298	-.168	-.137	1	-.316
	Sig. (2-tailed)	.943	.488	.474	.690	.746		.446
	N	8	8	8	8	8	8	8
Bohadschia	Pearson Correlation	.275	-.231	-.153	.063	.679	-.316	1

Sig. (2-tailed)	.510	.582	.718	.883	.064	.446	
N	8	8	8	8	8	8	8

*. Correlation is significant at the 0.05 level (2-tailed).

Lampiran 8. Perhitungan indeks ekologi Echinodermata di Pulau Gusung Selayar

Lokasi	Spesies	ni	S	In S	ni/N	(ni/N) ²	In Pi	Pi In Pi	Pi (In Pi) ²	H'/In S
Stasiun 1	<i>Protoreaster nodosus</i>	20			0,4082	0,1666	-0,8961	-0,3658	0,1338	0,7951
	<i>Diadema setosum</i>	3			0,0612	0,0037	-2,7932	-0,1710	0,0292	
	<i>Tripneustes gratilla</i>	19	5	1,6094	0,3878	0,1504	-0,9474	-0,3674	0,1349	
	<i>Echinox calamaris</i>	4			0,0816	0,0067	-2,5055	-0,2045	0,0418	
	<i>Bohadschia sp</i>	3			0,0612	0,0037	-2,7932	-0,1710	0,0292	
Jumlah		49				0,3311		-1,2797	0,3690	
					C	0,3	H'	1,3	E	0,8
Stasiun 2	<i>Protoreaster nodosus</i>	31			0,6078	0,3695	-0,4978	-0,3026	0,0916	0,6533
	<i>Diadema setosum</i>	10			0,1961	0,0384	-1,6292	-0,3195	0,1021	
	<i>Tripneustes gratilla</i>	1	6	1,7918	0,0196	0,0004	-3,9318	-0,0771	0,0059	
	<i>Echinox calamaris</i>	5			0,0980	0,0096	-2,3224	-0,2277	0,0518	
	<i>Pearsonothuria graffeii</i>	1			0,0196	0,0004	-3,9318	-0,0771	0,0059	
	<i>Bohadschia sp</i>	3			0,0588	0,0035	-2,8332	-0,1667	0,0278	
Jumlah		51			1,0000	0,4218	-15,1463	-1,1706	0,2851	
					C	0,4	H'	1,2	E	0,7
Stasiun 3	<i>Protoreaster nodosus</i>	89			0,8165	0,6667	-0,2027	-0,1655	0,0274	0,4405
	<i>Diadema setosum</i>	15	4	1,38629	0,1376	0,0189	-1,9833	-0,2729	0,0745	
	<i>Tripneustes gratilla</i>	2			0,0183	0,0003	-3,9982	-0,0734	0,0054	
	<i>Echinox calamaris</i>	3			0,0275	0,0008	-3,5927	-0,0989	0,0098	
Jumlah		109			1	0,686727	-9,77695	-0,61069	0,117047	
					C	0,7	H'	0,6	E	0,4
Stasiun 4	<i>Protoreaster nodosus</i>	19	4	1,38629	0,4043	0,1634	-0,9057	-0,3661	0,1341	0,6185
	<i>Diadema setosum</i>	26			0,5532	0,3060	-0,5921	-0,3275	0,1073	

Lokasi	Spesies	ni	S	ln S	ni/N	(ni/N) ²	ln Pi	Pi ln Pi	Pi (ln Pi) ²	H'/ln S
	<i>Echinox calamaris</i>	1			0,0213	0,0005	-3,8501	-0,0819	0,0067	
	<i>Bohadschia sp</i>	1			0,0213	0,0005	-3,8501	-0,0819	0,0067	
	Jumlah	47			1	0,4703	-9,1981	-0,8575	0,2547	
					C	0,5	H'	0,9	E	0,6

Stasiun 1 :

Indeks Keanekaragaman (H') = $-\sum Pi \ln Pi = 1,3$

Indeks Keseragaman (E) = $\sum H' / \ln S = 0,8$

Indeks Dominansi (C) = $\sum ni / N^2 = 0,3$

Stasiun 2 :

Indeks Keanekaragaman (H') = $-\sum Pi \ln Pi = 1,2$

Indeks Keseragaman (E) = $\sum H' / \ln S = 0,7$

Indeks Dominansi (C) = $\sum ni / N^2 = 0,4$

Stasiun 3 :

Indeks Keanekaragaman (H') = $-\sum Pi \ln Pi = 0,6$

Indeks Keseragaman (E) = $\sum H' / \ln S = 0,4$

Indeks Dominansi (C) = $\sum ni / N^2 = 0,7$

Stasiun 4 :

Indeks Keanekaragaman (H') = $-\sum Pi \ln Pi = 0,9$

Indeks Keseragaman (E) = $\sum H' / \ln S = 0,6$

Indeks Dominansi (C) = $\sum ni / N^2 = 0,5$

Lampiran 9. Dokumentasi hasil identifikasi jenis lamun



Klasifikasi :

Kingdom : Plantae

Phylum : Tracheophyta

Class : Magnoliopsida

Order : Alismatales

Family : Hydrocharitaceae

Genus : *Thalassia*

Species : *Thalassia hemprichii*



Klasifikasi:

Kingdom : Plantae

Division : Tracheophyta

Class : Magnoliopsida

Order : Alismatales

Family : Hydrocharitaceae

Genus : *Enhalus*

Species : *Enhalus acoroides*

Lampiran 10. Dokumentasi hasil identifikasi jenis Echinodermata



Klasifikasi :

Kingdom : Animalia

Phylum : Echinodermata

Class : Asteroidea

Order : Valvatida

Family : Ophideasteridae

Genus : *Protoreaster*

Species : *Protoreaster nodosus*

(Mappetaheng et al., 2018)



Klafisikasi

Kingdom : Animalia

Phylum : Echinodermata

Class : Echinodea

Order : Diadematoida

Family : Diadematidae

Genus : *Echinothrix*

Species : *Echinothrix calamaris*



Klasifikasi :

Kingdom : Animalia

Phylum : Echinodermata

Class : Echinoidea

Order : Diadematoida

Family : Diadematidae

Genus : *Diadema*

Species : *Diadema setosum*



Klasifikasi :

Kingdom : Animalia

Phylum : Echinodermata

Class : Echinoidea

Order : Camarodonta

Family : Toxopneustidae

Genus : *Tripneustes*

Species : *Tripneustes gratilla*



Klasifikasi :

Kingdom : Animalia

Phylum : Echinodermata

Class : Holothuroidea

Order : Holothuriida

Family : Holothuriidea

Genus : *Pearsonothuria*

Species : *Pearsonothuria*

graffeii



Klasifikasi :

Kingdom : Animalia

Phylum : Echinodermata

Class : Holothuroidea

Order : Holothuriida

Family : Holothuriidea

Genus : *Bohadschia*

Species : *Bohadschia sp.*

Lampiran 11. Dokumentasi pengambilan data di lapangan dan pengolahan data di Laboratorium

