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LAMPIRAN

Lampiran 1. Kerapatan Jenis dan Kerapatan Relatif Mangrove (%)

Stasiun	Jenis	ni	Di	Rdi
1	Rhizopora mucronata	7,8000	0,0780	40,63
	Rhizopora apiculata	5,8000	0,0580	30,21
	Rhizopora stylosa	3,4000	0,0340	17,71
	Avicennia marina	2,2000	0,0220	11,46
	Total	19,2000	0,1920	100
2	Rhizopora mucronata	6,8000	0,0680	50,00
	Rhizopora apiculata	4,4000	0,0440	32,35
	Avicennia marina	2,4000	0,0240	17,65
	Total	13,6000	0,1360	100
3	Rhizopora mucronata	3,2000	0,0320	45,71
	Rhizopora apiculata	3,8000	0,0380	54,29
	Total	7,0000	0,0700	100

Lampiran 2. Tutupan Kanopi Mangrove

No	Stasiun	Pixel Kanopi (255)	Total Pixel	% Tutupan Kanopi	Kode	Rata - rata Kanopi %
1		1603462	1920000	83,51	ST1P1	
2		1608674	1920000	83,79	ST1P1	
3		1703916	1920000	88,75	ST1P1	85,48
4		1571157	1920000	81,83	ST1P1	
5		1718577	1920000	89,51	ST1P1	
6		1138740	1228800	92,67	ST1P2	
7		1620777	1920000	84,42	ST1P2	
8		1597879	1920000	83,22	ST1P2	85,14
9	1	1597752	1920000	83,22	ST1P2	
10		1577878	1920000	82,18	ST1P2	
11		1542468	1920000	80,34	ST1P3	
		614714	1920000	84,10	ST1P3	
		594224	1920000	83,03	ST1P3	84,16
		689823	1920000	88,01	ST1P3	
		638370	1920000	85,33	ST1P3	
		352433	1920000	70,44	ST1P4	76,02
		222290	1920000	63,66	ST1P4	

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18		1610803	1920000	83,90	ST1P4	
19		1511091	1920000	78,70	ST1P4	
20		1601458	1920000	83,41	ST1P4	
21		1569544	1920000	81,75	ST1P5	
22		1534918	1920000	79,94	ST1P5	
23		1582257	1920000	82,41	ST1P5	81,71
24		1579715	1920000	82,28	ST1P5	
25		1577580	1920000	82,17	ST1P5	
26		860107	1227520	70,07	ST2P1	
27		836336	1227520	68,13	ST2P1	
28		872522	1227520	71,08	ST2P1	70,60
29		870748	1227520	70,94	ST2P1	
30		893156	1227520	72,76	ST2P1	
31		860264	1227520	70,08	ST2P2	
32		891928	1227520	72,66	ST2P2	
33		898323	1227520	73,18	ST2P2	71,68
34		887135	1227520	72,27	ST2P2	
35		862057	1227520	70,23	ST2P2	
36		856099	1227520	69,74	ST2P3	
37		934699	1227520	76,15	ST2P3	
38	2	914882	1227520	74,53	ST2P3	72,64
39		877642	1227520	71,50	ST2P3	
40		874934	1227520	71,28	ST2P3	
41		862400	1227520	70,26	ST2P4	
42		866667	1227520	70,60	ST2P4	
43		894175	1227520	72,84	ST2P4	71,22
44		856882	1227520	69,81	ST2P4	
45		891096	1227520	72,59	ST2P4	
46		856732	1227520	69,79	ST2P5	
47		906132	1227520	73,82	ST2P5	
48		868033	1227520	70,71	ST2P5	72,34
49		892721	1227520	72,73	ST2P5	
50		916094	1227520	74,63	ST2P5	
51		634486	873720	72,62	ST3P1	
		620268	873720	70,99	ST3P1	
		613435	873720	70,21	ST3P1	70,14
		607695	873720	69,55	ST3P1	
		588369	873720	67,34	ST3P1	
		619731	873720	70,93	ST3P2	73,11
		650544	873720	74,46	ST3P2	

58	646991	873720	74,05	ST3P2	
59	577046	873720	66,04	ST3P2	
60	700295	874800	80,05	ST3P2	
61	602753	873720	68,99	ST3P3	
62	621455	873720	71,13	ST3P3	
63	482006	873720	55,17	ST3P3	64,98
64	582274	873720	66,64	ST3P3	
65	550239	873720	62,98	ST3P3	
66	625401	873720	71,58	ST3P4	
67	607631	873720	69,55	ST3P4	
68	602370	873720	68,94	ST3P4	68,77
69	619728	873720	70,93	ST3P4	
70	549077	873720	62,84	ST3P4	
71	677090	874800	77,40	ST3P5	
72	605411	873720	69,29	ST3P5	
73	708557	874800	81,00	ST3P5	73,43
74	579290	873720	66,30	ST3P5	
75	639129	873720	73,15	ST3P5	

Lampiran 3. Uji Anova Kerapatan Mangrove

ANOVA

Kerapatan_Mangrove

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3729333,333	2	1864666,667	9,562	0,003
Within Groups	2340000,000	12	195000,000		
Total	6069333,333	14			

Kerapatan_Mangrove

		N	Subset for alpha = 0.05	
Stasiun			1	2
Tukey HSD[a]	Stasiun 3	5	700,00	
	Stasiun 2	5	1360,00	1360,00
	Stasiun 1	5		1920,00
	Sig.		0,085	0,153

homogeneous subsets are displayed.

lean Sample Size = 5.000.

Lampiran 4. Ukuran butir sedimen

Stasiun	Berat awal (gr)	Berat Hasil Ayakan (gr)							Berat Akhir (gr)
		2 mm	1 mm	0,5 mm	0,25 mm	0,125 mm	0,063 mm	<0,063 mm	
ST1U1	100,064 gr	0,000	0,996	15,020	23,355	32,262	26,618	1,754	100,005
ST1U2	100,055 gr	11,511	22,173	48,210	10,284	5,400	1,915	0,531	100,024
ST1U3	100,087gr	9,728	17,558	46,458	14,633	8,649	2,592	0,398	100,016
ST1U4	100,041 gr	10,094	15,728	25,134	24,184	16,054	6,967	1,857	100,018
ST1U5	100,031 gr	11,813	18,947	27,371	29,168	8,860	3,240	0,620	100,019
ST2U1	100,058 gr	1,142	15,896	24,200	15,874	22,676	11,930	8,296	100,014
ST2U2	100,085 gr	0,967	5,420	17,885	19,828	22,168	23,505	10,250	100,023
ST2U3	100,089 gr	0,916	7,350	20,100	17,313	20,826	19,148	14,399	100,052
ST2U4	100,055 gr	0,807	8,812	20,694	16,257	18,427	24,278	10,754	100,029
ST2U5	100,044 gr	0,676	2,982	19,374	21,432	25,774	24,916	4,847	100,001
ST3U1	100,028 gr	0,370	2,271	22,155	17,488	32,201	19,132	6,383	100,000
ST3U2	100,060 gr	1,087	12,186	20,694	16,388	21,003	18,316	10,357	100,031
ST3U3	100,054 gr	0,461	7,155	25,994	18,154	26,198	19,777	2,269	100,008
ST3U4	100,069 gr	0,487	5,932	21,149	15,117	29,586	22,365	5,369	100,005
ST3U5	100,048 gr	1,225	5,443	20,186	19,712	19,652	28,202	5,594	100,014

Lampiran 5. Nilai Mean Butir Sedimen Gradistat

SAMPLE STATISTICS

SAMPLE IDENTITY: **ST1U1**   ANALYST & DATE: ,

SAMPLE TYPE: Polymodal, Poorly Sorted   TEXTURAL GROUP: Sand
SEDIMENT NAME: Poorly Sorted Fine Sand

	µm	ϕ		GRAIN SIZE DISTRIBUTION	
MODE 1:	152,5	2,737	GRAVEL: 0,0%	COARSE SAND: 15,0%	
MODE 2:	76,50	3,731	SAND: 98,2%	MEDIUM SAND: 23,4%	
MODE 3:	302,5	1,747	MUD: 1,8%	FINE SAND: 32,3%	
D_{10}:	70,36	0,797		V FINE SAND: 26,6%	
MEDIAN or D_{50}:	159,6	2,647	V COARSE GRAVEL: 0,0%	V COARSE SILT: 0,3%	
D_{90}:	575,4	3,829	COARSE GRAVEL: 0,0%	COARSE SILT: 0,3%	
(D_{90}/D_{10}):	8,178	4,802	MEDIUM GRAVEL: 0,0%	MEDIUM SILT: 0,3%	
$(D_{90}-D_{10})$:	505,0	3,032	FINE GRAVEL: 0,0%	FINE SILT: 0,3%	
(D_{75}/D_{25}):	3,606	2,096	V FINE GRAVEL: 0,0%	V FINE SILT: 0,3%	
$(D_{75}-D_{25})$:	224,2	1,850	V COARSE SAND: 1,0%	CLAY: 0,3%	

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	µm	µm	ϕ	µm	ϕ	
MEAN ($\bar{x}$):	243,6	174,8	2,517	182,6	2,453	Fine Sand
SORTING (σ):	201,1	2,300	1,202	2,262	1,178	Poorly Sorted
SKEWNESS (Sk):	1,747	-0,523	0,523	0,219	-0,219	Coarse Skewed
KURTOSIS (K):	6,829	4,679	4,679	0,730	0,730	Platykurtic

SAMPLE STATISTICS

SAMPLE IDENTITY: **ST1U2**   ANALYST & DATE: ,

SAMPLE TYPE: Polymodal, Poorly Sorted   TEXTURAL GROUP: Gravelly Sand
SEDIMENT NAME: Very Fine Gravelly Coarse Sand

	µm	ϕ		GRAIN SIZE DISTRIBUTION	
MODE 1:	605,0	0,747	GRAVEL: 11,5%	COARSE SAND: 48,2%	
MODE 2:	1200,0	-0,243	SAND: 88,0%	MEDIUM SAND: 10,3%	
MODE 3:	2400,0	-1,243	MUD: 0,5%	FINE SAND: 5,4%	
D_{10}:	269,1	-1,064		V FINE SAND: 1,9%	
MEDIAN or D_{50}:	630,5	0,665	V COARSE GRAVEL: 0,0%	V COARSE SILT: 0,1%	
D_{90}:	2090,2	1,894	COARSE GRAVEL: 0,0%	COARSE SILT: 0,1%	
(D_{90}/D_{10}):	7,768	-1,781	MEDIUM GRAVEL: 0,0%	MEDIUM SILT: 0,1%	
$(D_{90}-D_{10})$:	1821,1	2,958	FINE GRAVEL: 0,0%	FINE SILT: 0,1%	
(D_{75}/D_{25}):	2,170	-4,884	V FINE GRAVEL: 11,5%	V FINE SILT: 0,1%	
$(D_{75}-D_{25})$:	615,1	1,118	V COARSE SAND: 22,2%	CLAY: 0,1%	

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	µm	µm	ϕ	µm	ϕ	
MEAN ($\bar{x}$):	874,8	660,1	0,599	648,1	0,626	Coarse Sand
SORTING (σ):	635,6	2,234	1,160	2,153	1,106	Poorly Sorted
SKEWNESS (Sk):	1,378	-1,160	1,160	0,012	-0,012	Symmetrical
KURTOSIS (K):	4,067	7,440	7,440	1,476	1,476	Leptokurtic

SAMPLE STATISTICS

SAMPLE IDENTITY: **ST1U3**   ANALYST & DATE: ,

SAMPLE TYPE: Polymodal, Poorly Sorted   TEXTURAL GROUP: Gravelly Sand
SEDIMENT NAME: Very Fine Gravelly Coarse Sand

	µm	ϕ		GRAIN SIZE DISTRIBUTION	
MODE 1:	605,0	0,747	GRAVEL: 9,7%	COARSE SAND: 46,5%	
MODE 2:	1200,0	-0,243	SAND: 89,9%	MEDIUM SAND: 14,6%	
MODE 3:	302,5	1,747	MUD: 0,4%	FINE SAND: 8,6%	
D_{10}:	168,0	-0,478		V FINE SAND: 2,6%	
MEDIAN or D_{50}:	598,1	0,742	V COARSE GRAVEL: 0,0%	V COARSE SILT: 0,1%	
	392,7	2,574	COARSE GRAVEL: 0,0%	COARSE SILT: 0,1%	
	8,290	-5,385	MEDIUM GRAVEL: 0,0%	MEDIUM SILT: 0,1%	
	224,7	3,051	FINE GRAVEL: 0,0%	FINE SILT: 0,1%	
	3,034	-24,377	V FINE GRAVEL: 9,7%	V FINE SILT: 0,1%	
	700,3	1,601	V COARSE SAND: 17,6%	CLAY: 0,1%	

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	µm	µm	ϕ	µm	ϕ	
t	784,7	574,2	0,800	590,7	0,760	Coarse Sand
:	618,8	2,290	1,195	2,240	1,164	Poorly Sorted
	1,565	-0,774	0,774	-0,032	0,032	Symmetrical
	4,757	5,389	5,389	1,053	1,053	Mesokurtic

SAMPLE STATISTICS

SAMPLE IDENTITY: **ST1U4**   ANALYST & DATE: ,

SAMPLE TYPE: Polymodal, Poorly Sorted   TEXTURAL GROUP: Gravelly Sand
SEDIMENT NAME: Very Fine Gravelly Coarse Sand

	µm	ϕ		GRAIN SIZE DISTRIBUTION	
MODE 1:	605,0	0,747	GRAVEL: 10,1%	COARSE SAND: 25,1%
MODE 2:	302,5	1,747	SAND: 88,1%	MEDIUM SAND: 24,2%
MODE 3:	1200,0	-0,243	MUD: 1,9%	FINE SAND: 16,1%
D_{10}:	128,4	-1,004		V FINE SAND: 7,0%
MEDIAN or D_{50}:	506,6	0,981	V COARSE GRAVEL: 0,0%	V COARSE SILT: 0,3%
D_{90}:	2006,2	2,961	COARSE GRAVEL: 0,0%	COARSE SILT: 0,3%
(D_{90} / D_{10}):	15,63	-2,948	MEDIUM GRAVEL: 0,0%	MEDIUM SILT: 0,3%
$(D_{90} - D_{10})$:	1877,8	3,966	FINE GRAVEL: 0,0%	FINE SILT: 0,3%
(D_{75} / D_{25}):	4,063	-79,162	V FINE GRAVEL: 10,1%	V FINE SILT: 0,3%
$(D_{75} - D_{25})$:	767,2	2,023	V COARSE SAND: 15,7%	CLAY: 0,3%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	µm	µm	ϕ	µm	ϕ	
MEAN ($\bar{x}$):	686,5	413,0	1,276	451,4	1,148	Medium Sand
SORTING (σ):	674,3	2,990	1,580	2,877	1,525	Poorly Sorted
SKEWNESS (Sk):	1,532	-0,718	0,718	-0,136	0,136	Fine Skewed
KURTOSIS (K):	4,412	4,500	4,500	1,013	1,013	Mesokurtic

SAMPLE STATISTICS

SAMPLE IDENTITY: **ST1U5**   ANALYST & DATE: ,

SAMPLE TYPE: Polymodal, Poorly Sorted   TEXTURAL GROUP: Gravelly Sand
SEDIMENT NAME: Very Fine Gravelly Medium Sand

	µm	ϕ		GRAIN SIZE DISTRIBUTION	
MODE 1:	302,5	1,747	GRAVEL: 11,8%	COARSE SAND: 27,4%
MODE 2:	605,0	0,747	SAND: 87,6%	MEDIUM SAND: 29,2%
MODE 3:	1200,0	-0,243	MUD: 0,6%	FINE SAND: 8,9%
D_{10}:	160,9	-1,074		V FINE SAND: 3,2%
MEDIAN or D_{50}:	554,8	0,850	V COARSE GRAVEL: 0,0%	V COARSE SILT: 0,1%
D_{90}:	2105,9	2,635	COARSE GRAVEL: 0,0%	COARSE SILT: 0,1%
(D_{90} / D_{10}):	13,08	-2,453	MEDIUM GRAVEL: 0,0%	MEDIUM SILT: 0,1%
$(D_{90} - D_{10})$:	1944,9	3,710	FINE GRAVEL: 0,0%	FINE SILT: 0,1%
(D_{75} / D_{25}):	3,822	-12,119	V FINE GRAVEL: 11,8%	V FINE SILT: 0,1%
$(D_{75} - D_{25})$:	817,8	1,934	V COARSE SAND: 18,9%	CLAY: 0,1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	µm	µm	ϕ	µm	ϕ	
MEAN ($\bar{x}$):	780,7	525,6	0,928	572,4	0,805	Coarse Sand
SORTING (σ):	687,5	2,530	1,339	2,327	1,218	Poorly Sorted
SKEWNESS (Sk):	1,373	-0,529	0,529	0,035	-0,035	Symmetrical
KURTOSIS (K):	3,837	4,494	4,494	0,892	0,892	Platykurtic

SAMPLE STATISTICS

SAMPLE IDENTITY: **ST2U1**   ANALYST & DATE: ,

SAMPLE TYPE: Polymodal, Poorly Sorted   TEXTURAL GROUP: Slightly Gravelly Sand
SEDIMENT NAME: Slightly Very Fine Gravelly Coarse Sand

	µm	ϕ		GRAIN SIZE DISTRIBUTION	
MODE 1:	605,0	0,747	GRAVEL: 1,1%	COARSE SAND: 24,2%
MODE 2:	152,5	2,737	SAND: 90,6%	MEDIUM SAND: 15,9%
MODE 3:	1200,0	-0,243	MUD: 8,3%	FINE SAND: 22,7%
D_{10}:	66,30	-0,215		V FINE SAND: 11,9%
MEDIAN or D_{50}:	292,5	1,774	V COARSE GRAVEL: 0,0%	V COARSE SILT: 1,4%
D_{90}:	1160,6	3,915	COARSE GRAVEL: 0,0%	COARSE SILT: 1,4%
(D_{90} / D_{10}):	17,51	-18,219	MEDIUM GRAVEL: 0,0%	MEDIUM SILT: 1,4%
$(D_{90} - D_{10})$:	1094,3	4,130	FINE GRAVEL: 0,0%	FINE SILT: 1,4%
(D_{75} / D_{25}):	4,687	4,373	V FINE GRAVEL: 1,1%	V FINE SILT: 1,4%
	497,6	2,229	V COARSE SAND: 15,9%	CLAY: 1,4%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	µm	µm	ϕ	µm	ϕ	
:	458,9	241,3	2,051	287,3	1,799	Medium Sand
:	439,6	3,901	1,964	3,539	1,823	Poorly Sorted
:	1,516	-1,029	1,029	-0,151	0,151	Fine Skewed
:	5,828	3,831	3,831	1,094	1,094	Mesokurtic

SAMPLE STATISTICS

SAMPLE IDENTITY: **ST2U2** ANALYST & DATE: ,

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Muddy Sand
SEDIMENT NAME: Slightly Very Fine Gravelly Very Coarse Silty Very Fine Sand

	µm	φ	GRAIN SIZE DISTRIBUTION	
MODE 1:	76,50	3,731	GRAVEL: 1,0%	COARSE SAND: 17,9%
MODE 2:	152,5	2,737	SAND: 88,8%	MEDIUM SAND: 19,8%
MODE 3:	302,5	1,747	MUD: 10,2%	FINE SAND: 22,2%
D_{10}:	58,91	0,596		V FINE SAND: 23,5%
MEDIAN or D_{50}:	163,3	2,614	V COARSE GRAVEL: 0,0%	V COARSE SILT: 1,7%
D_{90}:	661,4	4,085	COARSE GRAVEL: 0,0%	COARSE SILT: 1,7%
$(D_{90}$ / $D_{10})$:	11,23	6,851	MEDIUM GRAVEL: 0,0%	MEDIUM SILT: 1,7%
$(D_{90}$ - $D_{10})$:	602,5	3,489	FINE GRAVEL: 0,0%	FINE SILT: 1,7%
$(D_{75}$ - $D_{25})$:	4,446	2,423	V FINE GRAVEL: 1,0%	V FINE SILT: 1,7%
$(D_{75}$ - $D_{25})$:	271,6	2,153	V COARSE SAND: 5,4%	CLAY: 1,7%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	µm	µm	φ	µm	φ	
MEAN ($\bar{x}$):	311,4	158,8	2,655	187,6	2,414	Fine Sand
SORTING (σ):	356,3	3,739	1,902	3,268	1,708	Poorly Sorted
SKEWNESS (Sk):	2,751	-0,782	0,782	0,041	-0,041	Symmetrical
KURTOSIS (K):	13,68	3,451	3,451	1,174	1,174	Leptokurtic

SAMPLE STATISTICS

SAMPLE IDENTITY: **ST2U3** ANALYST & DATE: ,

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Muddy Sand
SEDIMENT NAME: Slightly Very Fine Gravelly Medium Silty Fine Sand

	µm	φ	GRAIN SIZE DISTRIBUTION	
MODE 1:	605,0	0,747	GRAVEL: 0,9%	COARSE SAND: 20,1%
MODE 2:	152,5	2,737	SAND: 84,7%	MEDIUM SAND: 17,3%
MODE 3:	76,50	3,731	MUD: 14,4%	FINE SAND: 20,8%
D_{10}:	26,97	0,538		V FINE SAND: 19,2%
MEDIAN or D_{50}:	166,8	2,584	V COARSE GRAVEL: 0,0%	V COARSE SILT: 2,4%
D_{90}:	688,8	5,213	COARSE GRAVEL: 0,0%	COARSE SILT: 2,4%
$(D_{90}$ / $D_{10})$:	25,54	9,691	MEDIUM GRAVEL: 0,0%	MEDIUM SILT: 2,4%
$(D_{90}$ - $D_{10})$:	661,8	4,675	FINE GRAVEL: 0,0%	FINE SILT: 2,4%
$(D_{75}$ - $D_{25})$:	6,905	4,045	V FINE GRAVEL: 0,9%	V FINE SILT: 2,4%
$(D_{75}$ - $D_{25})$:	453,3	2,788	V COARSE SAND: 7,3%	CLAY: 2,4%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	µm	µm	φ	µm	φ	
MEAN ($\bar{x}$):	335,0	152,5	2,714	188,7	2,406	Fine Sand
SORTING (σ):	376,5	4,393	2,135	3,599	1,848	Poorly Sorted
SKEWNESS (Sk):	2,314	-0,754	0,754	-0,008	0,008	Symmetrical
KURTOSIS (K):	10,50	2,864	2,864	1,003	1,003	Mesokurtic

SAMPLE STATISTICS

SAMPLE IDENTITY: **ST2U4** ANALYST & DATE: ,

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Muddy Sand
SEDIMENT NAME: Slightly Very Fine Gravelly Very Coarse Silty Very Fine Sand

	µm	φ	GRAIN SIZE DISTRIBUTION	
MODE 1:	76,50	3,731	GRAVEL: 0,8%	COARSE SAND: 20,7%
MODE 2:	605,0	0,747	SAND: 88,5%	MEDIUM SAND: 16,3%
MODE 3:	152,5	2,737	MUD: 10,7%	FINE SAND: 18,4%
D_{10}:	51,88	0,503		V FINE SAND: 24,3%
MEDIAN or D_{50}:	168,1	2,572	V COARSE GRAVEL: 0,0%	V COARSE SILT: 1,8%
D_{90}:	705,4	4,269	COARSE GRAVEL: 0,0%	COARSE SILT: 1,8%
$(D_{90}$ / $D_{10})$:	13,60	8,478	MEDIUM GRAVEL: 0,0%	MEDIUM SILT: 1,8%
$(D_{90}$ - $D_{10})$:	653,5	3,765	FINE GRAVEL: 0,0%	FINE SILT: 1,8%
$(D_{75}$ - $D_{25})$:	7,043	4,236	V FINE GRAVEL: 0,8%	V FINE SILT: 1,8%
	469,4	2,816	V COARSE SAND: 8,8%	CLAY: 1,8%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	µm	µm	φ	µm	φ	
	349,5	168,5	2,569	193,9	2,367	Fine Sand
:	384,2	4,034	2,012	3,422	1,775	Poorly Sorted
:	2,071	-0,731	0,731	0,038	-0,038	Symmetrical
:	8,829	3,126	3,126	0,930	0,930	Mesokurtic

SAMPLE STATISTICS

SAMPLE IDENTITY: **ST2U5** ANALYST & DATE: ,

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Sand
SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

	μm	φ	GRAIN SIZE DISTRIBUTION		
MODE 1:	152,5	2,737	GRAVEL: 0,7%	COARSE SAND:	19,4%
MODE 2:	76,50	3,731	SAND: 94,5%	MEDIUM SAND:	21,4%
MODE 3:	302,5	1,747	MUD: 4,8%	FINE SAND:	25,8%
D_{10}:	67,82	0,660		V FINE SAND:	24,9%
MEDIAN or D_{50}:	166,4	2,587	V COARSE GRAVEL: 0,0%	V COARSE SILT:	0,8%
D_{90}:	633,0	3,882	COARSE GRAVEL: 0,0%	COARSE SILT:	0,8%
(D_{90} / D_{10}):	9,333	5,884	MEDIUM GRAVEL: 0,0%	MEDIUM SILT:	0,8%
$(D_{90} - D_{10})$:	565,2	3,222	FINE GRAVEL: 0,0%	FINE SILT:	0,8%
(D_{75} / D_{25}):	4,089	2,319	V FINE GRAVEL: 0,7%	V FINE SILT:	0,8%
$(D_{75} - D_{25})$:	259,7	2,032	V COARSE SAND: 3,0%	CLAY:	0,8%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	φ	μm	φ	
MEAN ($\bar{x}$):	294,0	179,5	2,478	191,2	2,387	Fine Sand
SORTING (σ):	305,8	2,931	1,551	2,393	1,259	Poorly Sorted
SKEWNESS (Sk):	3,043	-0,784	0,784	0,197	-0,197	Coarse Skewed
KURTOSIS (K):	17,82	4,406	4,406	0,697	0,697	Platykurtic

SAMPLE STATISTICS

SAMPLE IDENTITY: **ST3U1** ANALYST & DATE: ,

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Sand
SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

	μm	φ	GRAIN SIZE DISTRIBUTION		
MODE 1:	152,5	2,737	GRAVEL: 0,4%	COARSE SAND:	22,2%
MODE 2:	605,0	0,747	SAND: 93,3%	MEDIUM SAND:	17,5%
MODE 3:	76,50	3,731	MUD: 6,4%	FINE SAND:	32,2%
D_{10}:	67,39	0,662		V FINE SAND:	19,1%
MEDIAN or D_{50}:	164,9	2,600	V COARSE GRAVEL: 0,0%	V COARSE SILT:	1,1%
D_{90}:	631,9	3,891	COARSE GRAVEL: 0,0%	COARSE SILT:	1,1%
(D_{90} / D_{10}):	9,377	5,877	MEDIUM GRAVEL: 0,0%	MEDIUM SILT:	1,1%
$(D_{90} - D_{10})$:	564,5	3,229	FINE GRAVEL: 0,0%	FINE SILT:	1,1%
(D_{75} / D_{25}):	3,966	2,325	V FINE GRAVEL: 0,4%	V FINE SILT:	1,1%
$(D_{75} - D_{25})$:	264,4	1,988	V COARSE SAND: 2,3%	CLAY:	1,1%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	φ	μm	φ	
MEAN ($\bar{x}$):	288,9	176,5	2,503	192,6	2,376	Fine Sand
SORTING (σ):	276,3	3,058	1,612	2,613	1,386	Poorly Sorted
SKEWNESS (Sk):	2,620	-1,003	1,003	0,091	-0,091	Symmetrical
KURTOSIS (K):	15,81	4,526	4,526	0,889	0,889	Platykurtic

SAMPLE STATISTICS

SAMPLE IDENTITY: **ST3U2** ANALYST & DATE: ,

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Muddy Sand
SEDIMENT NAME: Slightly Very Fine Gravelly Very Coarse Silty Fine Sand

	μm	φ	GRAIN SIZE DISTRIBUTION		
MODE 1:	605,0	0,747	GRAVEL: 1,1%	COARSE SAND:	20,7%
MODE 2:	152,5	2,737	SAND: 88,6%	MEDIUM SAND:	16,4%
MODE 3:	76,50	3,731	MUD: 10,3%	FINE SAND:	21,0%
D_{10}:	57,29	-0,130		V FINE SAND:	18,3%
MEDIAN or D_{50}:	251,8	1,990	V COARSE GRAVEL: 0,0%	V COARSE SILT:	1,7%
D_{90}:	1094,5	4,126	COARSE GRAVEL: 0,0%	COARSE SILT:	1,7%
(D_{90} / D_{10}):	19,10	-31,673	MEDIUM GRAVEL: 0,0%	MEDIUM SILT:	1,7%
$(D_{90} - D_{10})$:	1037,2	4,256	FINE GRAVEL: 0,0%	FINE SILT:	1,7%
	6,945	4,580	V FINE GRAVEL: 1,1%	V FINE SILT:	1,7%
	498,2	2,796	V COARSE SAND: 12,2%	CLAY:	1,7%

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	φ	μm	φ	
	396,3	192,1	2,380	229,0	2,127	Fine Sand
:	421,6	4,114	2,040	3,448	1,786	Poorly Sorted
:	1,847	-0,822	0,822	-0,200	0,200	Fine Skewed
:	7,309	3,271	3,271	0,937	0,937	Mesokurtic

SAMPLE STATISTICS

SAMPLE IDENTITY: **ST3U3** ANALYST & DATE: ,

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Sand
SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

	µm	φ	GRAIN SIZE DISTRIBUTION		
MODE 1:	605,0	0,747	GRAVEL: 0,5%	COARSE SAND: 26,0%	
MODE 2:	152,5	2,737	SAND: 97,3%	MEDIUM SAND: 18,2%	
MODE 3:	76,50	3,731	MUD: 2,3%	FINE SAND: 26,2%	
D_{10}:	72,43	0,541		V FINE SAND: 19,8%	
MEDIAN or D_{50}:	258,6	1,951	V COARSE GRAVEL: 0,0%	V COARSE SILT: 0,4%	
D_{90}:	687,5	3,787	COARSE GRAVEL: 0,0%	COARSE SILT: 0,4%	
(D_{90}/D_{10}):	9,493	7,007	MEDIUM GRAVEL: 0,0%	MEDIUM SILT: 0,4%	
$(D_{90}-D_{10})$:	615,1	3,247	FINE GRAVEL: 0,0%	FINE SILT: 0,4%	
(D_{75}/D_{25}):	4,311	3,532	V FINE GRAVEL: 0,5%	V FINE SILT: 0,4%	
$(D_{75}-D_{25})$:	431,3	2,108	V COARSE SAND: 7,2%	CLAY: 0,4%	

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	µm	µm	φ	µm	φ	
MEAN ($\bar{x}$):	364,9	233,0	2,102	236,5	2,080	Fine Sand
SORTING (σ):	339,8	2,743	1,456	2,574	1,364	Poorly Sorted
SKEWNESS (Sk):	1,937	-0,594	0,594	-0,045	0,045	Symmetrical
KURTOSIS (K):	8,771	4,022	4,022	0,796	0,796	Platykurtic

SAMPLE STATISTICS

SAMPLE IDENTITY: **ST3U4** ANALYST & DATE: ,

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Sand
SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

	µm	φ	GRAIN SIZE DISTRIBUTION		
MODE 1:	152,5	2,737	GRAVEL: 0,5%	COARSE SAND: 21,1%	
MODE 2:	76,50	3,731	SAND: 94,2%	MEDIUM SAND: 15,1%	
MODE 3:	605,0	0,747	MUD: 5,4%	FINE SAND: 29,6%	
D_{10}:	67,83	0,580		V FINE SAND: 22,4%	
MEDIAN or D_{50}:	164,5	2,604	V COARSE GRAVEL: 0,0%	V COARSE SILT: 0,9%	
D_{90}:	669,1	3,882	COARSE GRAVEL: 0,0%	COARSE SILT: 0,9%	
(D_{90}/D_{10}):	9,864	6,696	MEDIUM GRAVEL: 0,0%	MEDIUM SILT: 0,9%	
$(D_{90}-D_{10})$:	601,2	3,302	FINE GRAVEL: 0,0%	FINE SILT: 0,9%	
(D_{75}/D_{25}):	6,055	3,768	V FINE GRAVEL: 0,5%	V FINE SILT: 0,9%	
$(D_{75}-D_{25})$:	435,6	2,598	V COARSE SAND: 5,9%	CLAY: 0,9%	

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	µm	µm	φ	µm	φ	
MEAN ($\bar{x}$):	320,5	186,7	2,421	195,2	2,357	Fine Sand
SORTING (σ):	332,0	3,113	1,638	2,674	1,419	Poorly Sorted
SKEWNESS (Sk):	2,270	-0,738	0,738	0,244	-0,244	Coarse Skewed
KURTOSIS (K):	10,64	4,123	4,123	0,691	0,691	Platykurtic

SAMPLE STATISTICS

SAMPLE IDENTITY: **ST3U5** ANALYST & DATE: ,

SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Sand
SEDIMENT NAME: Slightly Very Fine Gravelly Very Fine Sand

	µm	φ	GRAIN SIZE DISTRIBUTION		
MODE 1:	76,50	3,731	GRAVEL: 1,2%	COARSE SAND: 20,2%	
MODE 2:	605,0	0,747	SAND: 93,2%	MEDIUM SAND: 19,7%	
MODE 3:	302,5	1,747	MUD: 5,6%	FINE SAND: 19,6%	
D_{10}:	66,61	0,578		V FINE SAND: 28,2%	
MEDIAN or D_{50}:	168,9	2,566	V COARSE GRAVEL: 0,0%	V COARSE SILT: 0,9%	
D_{90}:	670,1	3,908	COARSE GRAVEL: 0,0%	COARSE SILT: 0,9%	
(D_{90}/D_{10}):	10,06	6,766	MEDIUM GRAVEL: 0,0%	MEDIUM SILT: 0,9%	
$(D_{90}-D_{10})$:	603,4	3,330	FINE GRAVEL: 0,0%	FINE SILT: 0,9%	
$(D_{75}-D_{25})$:	6,412	3,811	V FINE GRAVEL: 1,2%	V FINE SILT: 0,9%	
	435,8	2,681	V COARSE SAND: 5,4%	CLAY: 0,9%	

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	µm	µm	φ	µm	φ	
t	329,8	183,3	2,448	194,2	2,364	Fine Sand
:	372,0	3,241	1,697	2,749	1,459	Poorly Sorted
:	2,751	-0,639	0,639	0,194	-0,194	Coarse Skewed
:	13,54	3,805	3,805	0,698	0,698	Platykurtic

Lampiran 6. Uji Regresi sederhana Kerapatan mangrove dengan Mean Butir Sedimen

Model Summary[b]

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.421[a]	0,177	0,114	619,757

a. Predictors: (Constant), Mean butir sedimen
b. Dependent Variable: Kerapatan mangrove

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	834,702	334,662		2,494	0,027
	Mean butir sedimen	0,162	0,097	0,421	1,674	0,118

a. Dependent Variable: Kerapatan mangrove

Lampiran 7. Dokumentasi Pengambilan Sampel di Lapangan

Gambar 1. Pengukuran lingkar batang Mangrove

Gambar 2. Pengambilan Data mangrove

Gambar 3. Pengambilan Sampel Sedimen
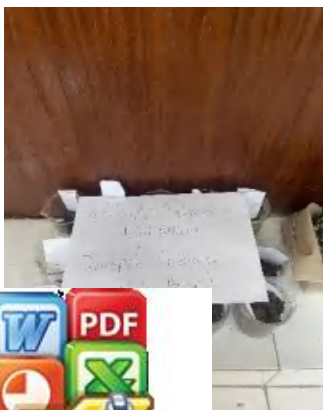Pada Mangrove

Gambar 4. Pengambilan Data Pada
Pasang surut

Lampiran 8. Dokumentasi Analisis Sedimen di Laboratorium

Gambar 5. Penghalusan Sampel

Gambar 6. Penimbangan Sampel

etelah di Oven

Gambar 8. Pemilahan Ukuran Butir