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LAMPIRAN

Lampiran 1. Data Primer Pengukuran Gelombang

GELOMBANG STASIUN 1 (cm)													GELOMBANG STASIUN 2 (cm)											
No	U1				U2				U3				No	U1				U2				U3			
	P	L	H	HU	P	L	H	HU	P	L	H	HU		P	L	H	HU	P	L	H	HU	P	L	H	HU
1	79	74	5	7	74	70	4	5	78	76	2	9	1	76	75	1	5	77	75	2	7	79	76	3	6
2	77	70	7	7	76	75	1	4	76	74	2	8	2	78	76	2	5	79	77	2	5	75	72	3	6
3	80	76	4	7	75	74	1	4	77	76	1	7	3	78	76	2	4	76	75	1	5	76	70	6	5
4	78	72	6	6	75	72	3	4	78	77	1	7	4	77	74	3	4	75	74	1	4	78	72	6	5
5	75	70	5	6	77	73	4	4	76	75	1	7	5	78	76	2	3	79	75	4	4	80	78	2	5
6	79	72	7	5	76	75	1	4	77	74	3	7	6	76	74	2	3	75	74	1	4	78	75	3	4
7	76	69	7	5	78	77	1	4	79	76	3	6	7	77	76	1	3	77	74	3	4	77	72	5	4
8	78	75	3	5	77	74	3	4	76	73	3	5	8	78	77	1	3	78	76	2	4	75	74	1	4
9	74	72	2	5	75	72	3	4	75	74	1	5	9	80	75	5	3	80	77	3	4	77	74	3	4
10	77	76	1	5	76	74	2	4	79	72	7	5	10	76	75	1	3	79	76	3	4	79	75	4	4
11	80	74	6	5	78	76	2	3	75	70	5	3	11	77	76	1	3	75	74	1	4	76	75	1	4
12	76	75	1	4	80	78	2	3	77	72	5	3	12	77	75	2	3	78	77	1	3	74	73	1	4
13	79	76	3	4	78	77	1	3	78	77	1	3	13	78	77	1	3	76	75	1	3	77	76	1	3
14	78	74	4	4	77	74	3	3	80	74	6	3	14	80	78	2	3	79	78	1	3	80	75	5	3
15	73	70	3	4	75	71	4	3	79	71	8	3	15	79	77	2	3	76	74	2	3	80	76	4	3
16	77	73	4	4	77	73	4	3	75	73	2	3	16	75	74	1	3	74	70	4	3	79	74	5	3
17	80	76	4	4	79	78	1	3	78	77	1	2	17	78	77	1	2	76	75	1	3	77	73	4	3
18	79	74	5	4	76	74	2	3	76	74	2	2	18	76	75	1	2	74	72	2	2	76	75	1	3
19	75	73	2	4	74	69	5	3	77	76	1	2	19	78	77	1	2	80	78	2	2	78	76	2	2
20	81	76	5	4	77	75	2	2	75	74	1	2	20	80	76	4	2	75	74	1	2	77	74	3	2
21	81	78	3	4	80	79	1	2	79	70	9	2	21	78	75	3	2	74	70	4	2	79	77	2	2
22	78	74	4	4	80	76	4	2	78	73	5	2	22	77	74	3	2	77	75	2	2	76	75	1	2
23	74	70	4	4	79	77	2	2	76	75	1	2	23	75	74	1	2	79	74	5	2	74	72	2	2
24	79	75	4	4	77	76	1	2	77	76	1	2	24	77	75	2	2	80	76	4	2	80	78	2	2
25	77	72	5	3	76	75	1	2	79	72	7	2	25	79	76	3	2	78	73	5	2	75	74	1	2
26	80	78	2	3	78	74	4	2	80	79	1	2	26	76	75	1	2	79	75	4	2	74	70	4	2
27	78	74	4	3	77	76	1	2	79	78	1	2	27	74	72	2	2	80	77	3	2	74	73	1	2
28	73	70	3	3	79	75	4	2	76	74	2	2	28	77	74	3	2	76	74	2	2	79	78	1	2
29	76	73	3	3	76	73	3	2	78	76	2	2	29	78	75	3	2	78	77	1	2	77	76	1	2
30	80	78	2	3	78	77	1	1	77	70	7	1	30	77	76	1	2	74	72	2	2	74	72	2	2
31	78	76	2	3	74	72	2	1	79	72	7	1	31	79	76	3	1	77	76	1	2	75	74	1	1
32	76	72	4	3	75	74	1	1	77	75	2	1	32	77	74	3	1	78	77	1	2	79	78	1	1
33	75	74	1	2	76	75	1	1	80	77	3	1	33	80	77	3	1	79	77	2	1	78	76	2	1
34	80	78	2	2	79	78	1	1	79	78	1	1	34	79	74	5	1	78	74	4	1	80	79	1	1
35	80	76	4	2	78	76	2	1	75	74	1	1	35	75	74	1	1	78	71	7	1	76	74	2	1
36	82	79	3	2	75	74	1	1	78	77	1	1	36	78	75	3	1	77	73	4	1	72	70	2	1
37	76	74	2	2	77	76	1	1	77	76	1	1	37	77	73	4	1	78	76	2	1	76	72	4	1
38	74	70	4	2	79	76	3	1	76	75	1	1	38	76	75	1	1	76	74	2	1	80	79	1	1
39	74	72	2	2	80	78	2	1	78	76	2	1	39	78	76	2	1	77	74	3	1	74	72	2	1
40	80	79	1	2	77	76	1	1	79	78	1	1	40	79	76	3	1	78	75	3	1	78	74	4	1
41	77	72	5	2	79	76	3	1	76	74	2	1	41	76	75	1	1	80	79	1	1	77	76	1	1
42	75	74	1	2	80	79	1	1	78	76	2	1	42	75	74	1	1	76	75	1	1	78	75	3	1
43	78	76	2	2	78	75	3	1	78	75	3	1	43	76	75	1	1	77	76	1	1	77	76	1	1
44	78	75	3	1	79	78	1	1	77	76	1	1	44	79	77	2	1	76	75	1	1	76	75	1	1
45	77	76	1	1	80	77	3	1	78	75	3	1	45	78	76	2	1	77	75	2	1	75	74	1	1
46	74	70	4	1	76	75	1	1	76	74	2	1	46	75	73	2	1	78	74	4	1	72	70	2	1
47	76	72	4	1	78	77	1	1	77	76	1	1	47	75	74	1	1	78	77	1	1	74	72	2	1
48	77	75	2	1	74	70	4	1	78	77	1	1	48	78	76	2	1	77	76	1	1	75	74	1	1
49	74	73	1	1	77	76	1	1	80	78	2	1	49	78	75	3	1	79	78	1	1	76	75	1	1
50	80	78	2	1	78	76	2	1	76	75	1	1	50	77	76	1	1	78	76	2	1	76	75	1	1
51	76	75	1	1	79	75	4	1	77	75	2	1	51	78	77	1	1	76	74	2	1	74	70	4	1
	H`U1		3,31		**H`U2**		2,16		**H`U3**		2,59			**H`U1**		2,02		**H`U2**		2,27		**H`U3**		2,31	
	H1/3 U1		5,12		**H1/3 U2**		3,65		**H1/3 U3**		5,06			**H1/3 U3**		3,29		**H1/3 U3**		3,94		**H1/3 U3**		4,12	
	T U1		1,35		**T U2**		1,41		**T U3**		1,51			**T U3**		1,49		**T U3**		1,24		**T U3**		1,35	
	L U1		2,86		**L U2**		3,11		**L U3**		3,56			**L U3**		3,46		**L U3**		2,38		**L U3**		2,86	

GELOMBANG STASIUN 3 (cm)

No	U1				U2				U3			
	P	L	H	HU	P	L	H		P	L	H	HU
1	91	90	1	6	96	89	7	7	89	85	4	9
2	92	91	1	5	93	88	5	7	88	86	2	8
3	89	87	2	5	91	89	2	6	98	91	7	8
4	86	84	2	5	92	90	2	6	91	87	4	8
5	89	86	3	5	91	89	2	5	96	89	7	8
6	88	86	2	4	90	89	1	5	89	85	4	7
7	87	85	2	4	89	87	2	5	88	87	1	7
8	90	86	4	4	88	87	1	5	88	80	8	7
9	87	82	5	4	90	87	3	5	92	84	8	6
10	82	81	1	4	86	85	1	4	86	85	1	5
11	81	79	2	4	86	84	2	4	91	82	9	5
12	80	78	2	4	87	85	2	4	87	85	2	5
13	79	77	2	4	84	81	3	4	88	86	2	5
14	82	81	1	4	90	87	3	4	87	81	6	5
15	91	87	4	4	91	88	3	3	81	79	2	4
16	89	87	2	4	92	85	7	3	79	77	2	4
17	91	89	2	3	91	88	3	3	80	72	8	4
18	86	84	2	3	89	87	2	3	79	78	1	4
19	89	87	2	3	92	91	1	3	90	87	3	4
20	87	82	5	3	93	90	3	3	90	88	2	4
21	88	84	4	3	94	88	6	3	91	87	4	4
22	83	81	2	3	92	89	3	3	84	80	4	4
23	79	75	4	2	89	87	2	3	85	83	2	4
24	88	83	5	2	89	85	4	3	84	83	1	4
25	89	85	4	2	88	84	4	3	87	85	2	4
26	88	83	5	2	90	88	2	3	84	82	2	4
27	87	85	2	2	89	85	4	3	84	80	4	3
28	86	83	3	2	91	88	3	3	86	82	4	3
29	82	81	1	2	87	82	5	3	83	79	4	3
30	86	84	2	2	88	86	2	2	90	85	5	3
31	92	89	3	2	90	87	3	2	87	83	4	2
32	88	87	1	2	85	83	2	2	82	80	2	2
33	89	87	2	2	84	81	3	2	84	83	1	2
34	88	82	6	2	90	85	5	2	89	87	2	2
35	87	84	3	2	88	85	3	2	90	85	5	2
36	84	82	2	2	85	82	3	2	89	88	1	2
37	83	81	2	2	86	83	3	2	86	84	2	2
38	79	78	1	2	92	91	1	2	85	84	1	2
39	82	79	3	2	93	90	3	2	86	82	4	2
40	81	79	2	2	92	88	4	2	88	83	5	2
41	89	87	2	2	88	87	1	2	90	87	3	2
42	88	86	2	2	90	84	6	2	89	87	2	2
43	91	87	4	2	84	82	2	2	83	81	2	2
44	87	83	4	2	83	80	3	1	82	78	4	2
45	82	78	4	1	79	78	1	1	90	83	7	1
46	92	89	3	1	80	78	2	1	91	88	3	1
47	89	85	4	1	81	77	4	1	95	87	8	1
48	84	80	4	1	90	85	5	1	88	84	4	1
49	82	80	2	1	88	83	5	1	86	81	5	1
50	91	89	2	1	83	81	2	1	86	81	5	1
51	89	85	4	1	84	83	1	1	86	83	3	1
	H`U1	2,73			**H`U2**	2,98			**H`U3**	3,69		
	H1/3 U3	4,29			**H1/3 U3**	4,71			**H1/3 U3**	6,18		
	T U3	1,55			**T U3**	1,61			**T U3**	1,59		
	L U3	3,74			**L U3**	4,03			**L U3**	3,94		

GELOMBANG STASIUN 4 (cm)

No	U1				U2				U3			
	P	L	H	HU	P	L	H	HU	P	L	H	HU
1	88	87	1	7	83	80	3	9	86	84	2	14
2	89	82	7	5	79	78	1	7	90	83	7	9
3	88	84	4	5	80	78	2	7	91	88	3	9
4	89	87	2	5	81	77	4	6	95	87	8	8
5	88	86	2	5	87	83	4	6	96	82	14	8
6	83	78	5	5	83	81	2	6	84	83	1	8
7	92	89	3	5	84	83	1	6	87	85	2	7
8	89	85	4	5	87	85	2	5	83	80	3	6
9	84	82	2	4	85	81	4	5	86	82	4	6
10	83	81	2	4	90	87	3	5	83	79	4	5
11	84	80	4	4	91	88	3	4	84	80	4	5
12	82	80	2	4	92	85	7	4	85	84	1	5
13	92	89	3	4	92	83	9	4	82	78	4	5
14	89	85	4	4	88	87	1	4	81	79	2	4
15	91	87	4	4	90	84	6	4	79	77	2	4
16	87	83	4	4	88	85	3	4	80	72	8	4
17	87	85	2	4	85	82	3	3	85	83	2	4
18	87	83	4	4	86	83	3	3	86	82	4	4
19	83	81	2	4	92	91	1	3	88	83	5	4
20	87	82	5	4	89	85	4	3	85	84	1	4
21	88	84	4	4	88	84	4	3	87	81	6	4
22	83	81	2	3	90	88	2	3	89	87	2	4
23	79	75	4	3	89	85	4	3	90	85	5	4
24	88	83	5	3	92	90	2	3	79	78	1	4
25	89	85	4	3	91	89	2	3	88	87	1	3
26	87	82	5	3	90	89	1	3	83	81	2	3
27	85	81	4	3	89	87	2	3	86	85	1	3
28	83	79	4	3	88	86	2	3	89	85	4	3
29	80	78	2	2	90	87	3	3	87	85	2	2
30	82	81	1	2	85	83	2	3	88	86	2	2
31	91	87	4	2	91	88	3	2	87	81	6	2
32	89	87	2	2	87	82	5	2	88	87	1	2
33	92	89	3	2	96	89	7	2	90	87	3	2
34	91	90	1	2	93	87	6	2	90	88	2	2
35	92	91	1	2	91	89	2	2	89	87	2	2
36	89	87	2	2	93	90	3	2	91	82	9	2
37	86	84	2	2	94	88	6	2	92	84	8	2
38	89	86	3	2	92	89	3	2	87	83	4	2
39	87	86	1	2	89	87	2	2	82	80	2	2
40	87	85	2	2	84	83	1	2	85	83	2	2
41	91	86	5	2	89	87	2	2	96	91	5	2
42	81	78	3	2	92	91	1	2	91	87	4	2
43	84	79	5	2	93	90	3	1	91	87	4	2
44	82	79	3	2	93	88	5	1	90	87	3	2
45	86	84	2	2	91	85	6	1	88	86	2	1
46	92	89	3	1	84	81	3	1	88	84	4	1
47	88	87	1	1	90	85	5	1	89	85	4	1
48	86	84	2	1	90	87	3	1	85	83	2	1
49	89	87	2	1	86	85	1	1	90	85	5	1
50	79	77	2	1	88	87	1	1	84	82	2	1
51	88	83	5	1	87	84	3	1	89	80	9	1
	H`U1	3,04			**H`U2**	3,16			**H`U3**	3,73		
	H1/3 U3	4,59			**H1/3 U3**	5,24			**H1/3 U3**	6,53		
	T U3	1,51			**T U3**	1,53			**T U3**	1,55		
	L U3	3,56			**L U3**	3,65			**L U3**	3,74		

GELOMBANG STASIUN 5 (cm)												
No	U1				U2				U3			
	P	L	H	HU	P	L	H	HU	P	L	H	HU
1	87	83	4	7	83	81	2	8	87	85	2	8
2	86	83	3	6	84	82	2	6	83	82	1	7
3	91	86	5	6	85	81	4	6	79	78	1	6
4	89	85	4	6	84	82	2	5	79	77	2	5
5	90	84	6	6	78	77	1	5	80	78	2	5
6	88	82	6	5	85	82	3	4	83	81	2	4
7	89	85	4	5	86	85	1	4	85	84	1	4
8	85	82	3	5	87	85	2	4	86	83	3	4
9	85	78	7	5	88	84	4	4	89	85	4	4
10	80	75	5	5	96	92	4	4	95	90	5	3
11	85	82	3	5	95	89	6	4	92	89	3	3
12	88	83	5	4	92	88	4	4	91	87	4	3
13	84	80	4	4	84	82	2	3	92	85	7	3
14	84	80	4	4	85	84	1	3	88	87	1	3
15	84	79	5	4	86	81	5	3	87	82	5	3
16	90	86	4	4	81	80	1	3	88	80	8	3
17	88	84	4	4	88	87	1	3	79	78	1	2
18	91	85	6	4	86	81	5	3	79	77	2	2
19	85	79	6	4	89	83	6	2	88	85	3	2
20	80	79	1	4	85	83	2	2	88	86	2	2
21	91	89	2	4	84	82	2	2	89	87	2	2
22	85	82	3	4	87	86	1	2	88	86	2	2
23	85	84	1	4	85	82	3	2	90	86	4	2
24	84	81	3	4	83	80	3	2	91	85	6	2
25	82	78	4	3	82	80	2	2	86	84	2	2
26	82	78	4	3	82	80	2	2	86	84	2	2
27	85	84	1	3	81	79	2	2	85	83	2	2
28	90	85	5	3	79	75	4	2	84	82	2	2
29	90	86	4	3	79	78	1	2	90	88	2	2
30	89	86	3	3	85	83	2	2	90	89	1	2
31	89	87	2	3	90	89	1	2	78	77	1	2
32	88	86	2	3	91	90	1	2	78	77	1	2
33	87	84	3	3	88	86	2	2	76	75	1	2
34	85	81	4	2	86	84	2	2	80	79	1	2
35	90	85	5	2	87	84	3	2	84	82	2	1
36	90	87	3	2	81	80	1	1	84	81	3	1
37	90	88	2	2	80	79	1	1	85	82	3	1
38	86	84	2	2	81	78	3	1	85	81	4	1
39	84	82	2	2	90	87	3	1	80	78	2	1
40	83	81	2	2	88	86	2	1	79	78	1	1
41	84	81	3	2	85	84	1	1	78	77	1	1
42	82	80	2	2	86	84	2	1	82	81	1	1
43	80	78	2	2	86	82	4	1	84	81	3	1
44	77	76	1	1	98	90	8	1	84	81	3	1
45	89	88	1	1	82	81	1	1	83	82	1	1
46	90	86	4	1	83	82	1	1	82	80	2	1
47	90	86	4	1	83	82	1	1	82	80	2	1
48	83	82	1	1	85	81	4	1	83	81	2	1
49	80	79	1	1	92	90	2	1	81	80	1	1
50	81	80	1	1	91	89	2	1	80	79	1	1
51	83	81	2	1	88	87	1	1	79	78	1	1
	H`U1	3,29			**H`U2**	2,47			**H`U3**	2,37		
	H1/3 U3	5,00			**H1/3 U3**	4,29			**H1/3 U3**	4,12		
	T U3	1,57			**T U3**	1,63			**T U3**	1,49		
	L U3	3,84			**L U3**	4,13			**L U3**	3,46		

GELOMBANG STASIUN 6 (cm)												
No	U1				U2				U3			
	P	L	H	HU	P	L	H	HU	P	L	H	HU
1	93	90	3	9	98	92	6	9	89	87	2	9
2	92	91	1	9	93	85	8	9	89	85	4	9
3	89	87	2	9	91	89	2	9	84	83	1	9
4	86	84	2	8	92	90	2	8	86	85	1	9
5	86	84	2	8	91	83	8	8	85	83	2	9
6	92	84	8	7	90	89	1	8	86	82	4	8
7	89	87	2	7	89	87	2	7	87	83	4	8
8	88	83	5	7	88	87	1	7	90	83	7	8
9	84	81	3	7	88	87	1	6	91	82	9	8
10	82	80	2	6	86	85	1	6	95	87	8	8
11	90	81	9	5	86	84	2	6	96	87	9	7
12	89	82	7	5	87	85	2	6	86	84	2	7
13	89	87	2	5	84	81	3	5	85	84	1	6
14	88	85	3	5	90	82	8	5	86	81	5	5
15	88	83	5	5	91	88	3	5	86	81	5	5
16	87	85	2	5	90	85	5	5	85	80	5	5
17	86	83	3	5	90	88	2	5	85	82	3	5
18	82	81	1	4	90	87	3	5	83	79	4	4
19	83	81	2	4	92	91	1	4	84	80	4	4
20	79	78	1	3	93	86	7	4	85	81	4	4
21	88	81	7	3	94	85	9	4	82	78	4	4
22	87	82	5	3	92	85	7	3	80	79	1	4
23	82	81	1	3	89	87	2	3	79	77	2	4
24	81	79	2	3	89	85	4	3	80	72	8	4
25	80	78	2	2	88	84	4	3	79	78	1	4
26	79	77	2	2	90	84	6	3	89	81	8	4
27	81	79	2	2	91	85	6	3	88	80	8	3
28	88	87	1	2	92	83	9	3	87	85	2	3
29	89	87	2	2	87	82	5	3	88	86	2	3
30	88	82	6	2	88	86	2	3	87	81	6	3
31	87	85	2	2	90	87	3	3	88	84	4	3
32	84	77	7	2	85	83	2	2	88	85	3	3
33	82	81	1	2	84	81	3	2	88	87	1	3
34	90	82	8	2	90	85	5	2	90	82	8	2
35	90	83	7	2	87	83	4	2	90	81	9	2
36	90	81	9	2	85	82	3	2	90	87	3	2
37	82	81	1	2	86	83	3	2	90	87	3	2
38	86	84	2	2	92	87	5	2	90	87	3	2
39	88	87	1	2	93	90	3	2	91	82	9	2
40	87	82	5	2	92	83	9	2	92	83	9	2
41	88	84	4	2	88	87	1	2	84	82	2	2
42	86	81	5	2	90	84	6	2	83	81	2	2
43	82	80	2	1	84	82	2	1	86	85	1	2
44	83	81	2	1	83	80	3	1	88	85	3	1
45	79	76	3	1	79	78	1	1	88	86	2	1
46	88	83	5	1	79	78	1	1	87	83	4	1
47	89	85	4	1	80	77	3	1	82	80	2	1
48	92	83	9	1	90	85	5	1	84	83	1	1
49	89	87	2	1	87	82	5	1	98	91	7	1
50	88	87	1	1	83	81	2	1	90	87	3	1
51	90	85	5	1	84	83	1	1	90	85	5	1
	H`U1	3,53			**H`U2**	3,76			**H`U3**	4,12		
	H1/3 U3	6,59			**H1/3 U3**	6,71			**H1/3 U3**	7,35		
	T U3	1,53			**T U3**	1,45			**T U3**	1,53		
	L U3	3,65			**L U3**	3,28			**L U3**	3,65		

GELOMBANG STASIUN 7 (cm)												
No	U1				U2				U3			
	P	L	H	HU	P	L	H	HU	P	L	H	HU
1	86	83	3	10	84	81	3	13	95	90	5	8
2	88	84	4	8	83	82	1	6	92	89	3	7
3	89	86	3	7	84	81	3	6	91	87	4	5
4	91	86	5	6	84	78	6	6	87	85	2	5
5	90	84	6	6	81	77	4	6	83	82	1	5
6	88	82	6	6	85	82	3	5	79	78	1	5
7	89	85	4	6	87	85	2	5	79	77	2	4
8	85	82	3	6	86	85	1	4	80	78	2	4
9	86	80	6	6	86	83	3	4	83	81	2	4
10	88	78	10	5	91	78	13	4	85	84	1	4
11	85	82	3	5	89	86	3	4	86	83	3	4
12	87	83	4	5	90	88	2	4	89	85	4	3
13	84	80	4	4	82	78	4	4	87	82	5	3
14	85	80	5	4	85	84	1	3	88	80	8	3
15	87	79	8	4	86	81	5	3	92	85	7	3
16	90	86	4	4	81	80	1	3	87	86	1	3
17	89	86	3	4	88	87	1	3	88	85	3	3
18	91	85	6	4	89	86	3	3	88	86	2	3
19	85	79	6	4	89	83	6	3	89	87	2	3
20	80	78	2	4	85	84	1	3	88	86	2	2
21	91	89	2	4	87	81	6	3	83	81	2	2
22	85	78	7	4	87	86	1	3	81	80	1	2
23	86	84	2	4	85	82	3	3	80	79	1	2
24	83	81	2	3	83	81	2	3	83	79	4	2
25	82	78	4	3	86	83	3	3	81	78	3	2
26	82	78	4	3	82	80	2	2	79	77	2	2
27	85	84	1	3	81	79	2	2	86	84	2	2
28	90	85	5	3	79	75	4	2	85	83	2	2
29	90	86	4	3	80	78	2	2	84	82	2	2
30	89	86	3	3	85	83	2	2	89	88	1	2
31	89	87	2	3	90	89	1	2	90	89	1	2
32	88	86	2	3	91	90	1	2	76	75	1	2
33	87	84	3	3	88	86	2	2	80	79	1	2
34	85	81	4	2	86	84	2	2	84	82	2	2
35	91	85	6	2	88	84	4	2	89	86	3	2
36	90	87	3	2	81	80	1	1	90	85	5	2
37	89	87	2	2	80	79	1	1	86	84	2	2
38	86	84	2	2	81	78	3	1	85	82	3	2
39	84	82	2	2	88	87	1	1	85	81	4	1
40	83	81	2	2	90	86	4	1	80	78	2	1
41	84	81	3	2	85	84	1	1	79	78	1	1
42	82	80	2	2	86	83	3	1	81	77	4	1
43	80	78	2	2	86	82	4	1	83	78	5	1
44	79	76	3	2	95	89	6	1	79	77	2	1
45	89	88	1	2	82	81	1	1	82	81	1	1
46	90	86	4	2	84	82	2	1	84	81	3	1
47	90	86	4	1	83	82	1	1	83	81	2	1
48	83	82	1	1	86	81	5	1	83	82	1	1
49	80	79	1	1	91	90	1	1	84	81	3	1
50	81	80	1	1	89	86	3	1	82	80	2	1
51	83	81	2	1	90	87	3	1	82	80	2	1
	H`U1	3,55			**H`U2**	2,80			**H`U3**	2,55		
	H1/3 U3	5,65			**H1/3 U3**	4,88			**H1/3 U3**	4,29		
	T U3	1,61			**T U3**	1,59			**T U3**	1,57		
	L U3	4,03			**L U3**	3,94			**L U3**	3,84		

GELOMBANG STASIUN 8 (cm)												
No	U1				U2				U3			
	P	L	H	HU	P	L	H	HU	P	L	H	HU
1	80	75	5	9	78	71	7	11	82	78	4	9
2	85	76	9	8	80	75	5	10	83	78	5	9
3	78	75	3	8	82	77	5	8	81	75	6	9
4	85	80	5	7	80	74	6	8	85	77	8	9
5	90	84	6	7	83	75	8	8	81	79	2	8
6	89	86	3	7	85	78	7	8	80	74	6	8
7	80	75	5	7	83	77	6	8	79	75	4	8
8	82	78	4	6	85	78	7	8	81	78	3	7
9	84	80	4	6	80	72	8	8	82	78	4	7
10	83	78	5	6	75	70	5	8	85	76	9	7
11	81	75	6	6	78	73	5	7	82	73	9	7
12	80	78	2	6	80	72	8	7	82	77	5	7
13	82	79	3	6	78	71	7	7	89	81	8	7
14	85	80	5	6	82	79	3	7	84	81	3	7
15	81	79	2	6	85	80	5	7	86	80	6	6
16	83	80	3	6	81	73	8	7	82	78	4	6
17	82	78	4	6	78	71	7	7	84	78	6	6
18	84	80	4	6	83	76	7	7	81	74	7	6
19	81	73	8	6	85	79	6	7	79	73	6	6
20	76	70	6	5	88	83	5	7	80	74	6	6
21	78	73	5	5	90	85	5	7	82	76	6	6
22	75	72	3	5	90	82	8	7	80	71	9	6
23	75	70	5	5	86	80	6	7	79	72	7	6
24	78	75	3	5	88	77	11	6	82	75	7	6
25	82	78	4	5	82	75	7	6	78	72	6	6
26	80	77	3	5	78	70	8	6	81	75	6	6
27	78	75	3	5	80	73	7	6	80	73	7	5
28	79	72	7	5	80	75	5	6	82	79	3	5
29	81	75	6	5	77	70	7	6	85	80	5	5
30	79	73	6	5	80	74	6	6	85	78	7	5
31	78	72	6	5	80	70	10	6	82	75	7	5
32	80	71	9	5	83	77	6	6	80	75	5	5
33	76	74	2	4	85	80	5	6	85	81	4	5
34	78	73	5	4	88	82	6	6	87	82	5	5
35	80	75	5	4	83	78	5	5	84	79	5	5
36	77	74	3	4	80	77	3	5	79	70	9	4
37	81	75	6	4	77	72	5	5	77	73	4	4
38	78	72	6	4	82	75	7	5	81	74	7	4
39	75	70	5	3	85	82	3	5	83	79	4	4
40	80	72	8	3	80	73	7	5	80	74	6	4
41	82	75	7	3	79	71	8	5	78	70	8	4
42	80	74	6	3	84	79	5	5	75	70	5	4
43	78	73	5	3	80	75	5	5	79	74	5	4
44	81	75	6	3	79	74	5	5	82	79	3	4
45	80	78	2	3	82	75	7	5	80	76	4	4
46	83	79	4	3	85	77	8	5	82	78	4	3
47	81	75	6	3	79	73	6	5	85	82	3	3
48	82	75	7	2	81	75	6	5	83	77	6	3
49	78	73	5	2	83	77	6	3	80	74	6	3
50	80	74	6	2	85	79	6	3	83	78	5	3
51	81	76	5	2	82	75	7	3	81	77	4	2
	H`U1	4,92			**H`U2**	6,29			**H`U3**	5,55		
	H1/3 U1	6,65			**H1/3 U3**	7,88			**H1/3 U3**	7,47		
	T U1	1,49			**T U3**	1,57			**T U3**	1,51		
	L U1	3,46			**L U3**	3,84			**L U3**	3,56		

GELOMBANG STASIUN 9 (cm)

No	U1				U2				U3			
	P	L	H	HU	P	L	H	HU	P	L	H	HU
1	89	86	3	9	85	84	1	13	79	77	2	8
2	89	87	2	8	86	83	3	6	82	81	1	8
3	88	86	2	7	86	82	4	6	84	81	3	6
4	91	86	5	7	88	84	4	6	84	81	3	5
5	90	84	6	6	81	80	1	6	80	78	2	5
6	88	82	6	6	80	79	1	6	79	78	1	5
7	85	81	4	6	81	78	3	5	82	80	2	4
8	87	83	4	6	82	80	2	5	83	81	2	4
9	91	85	6	6	83	82	1	4	83	82	1	4
10	85	79	6	5	83	82	1	4	84	81	3	4
11	81	78	3	5	87	81	6	4	82	80	2	3
12	86	84	2	5	91	90	1	4	81	77	4	3
13	83	78	5	5	89	86	3	4	83	78	5	3
14	87	80	7	4	91	87	4	4	88	86	2	3
15	90	86	4	4	83	81	2	4	90	87	3	3
16	85	82	3	4	86	83	3	4	88	86	2	3
17	86	78	8	4	82	80	2	3	83	79	4	3
18	88	79	9	4	80	78	2	3	81	78	3	3
19	84	80	4	4	85	83	2	3	79	77	2	3
20	85	80	5	4	90	89	1	3	81	79	2	3
21	82	78	4	4	95	89	6	3	80	78	2	2
22	82	78	4	4	84	81	3	3	83	81	2	2
23	85	84	1	4	84	78	6	3	85	84	1	2
24	90	85	5	4	81	77	4	3	77	75	2	2
25	90	86	4	4	85	84	1	3	80	79	1	2
26	89	86	3	3	86	81	5	3	84	82	2	2
27	86	83	3	3	81	79	2	3	83	81	2	2
28	88	84	4	3	85	82	3	2	81	80	1	2
29	89	86	3	3	91	90	1	2	80	79	1	2
30	83	81	2	3	88	86	2	2	86	84	2	2
31	84	81	3	3	86	84	2	2	85	83	2	2
32	82	80	2	3	84	81	3	2	84	82	2	2
33	89	88	1	3	83	82	1	2	89	88	1	2
34	90	86	4	3	87	82	5	2	93	85	8	2
35	90	86	4	3	86	85	1	2	87	86	1	2
36	83	82	1	2	86	83	3	2	88	85	3	2
37	80	79	1	2	91	78	13	2	91	87	4	2
38	91	85	6	2	88	87	1	1	87	85	2	2
39	90	87	3	2	90	86	4	1	83	82	1	2
40	89	87	2	2	89	86	3	1	95	90	5	2
41	86	84	2	2	89	83	6	1	92	89	3	1
42	87	84	3	2	85	84	1	1	89	86	3	1
43	85	81	4	2	87	81	6	1	91	85	6	1
44	81	80	1	2	87	85	2	1	86	84	2	1
45	83	81	2	2	81	79	2	1	80	78	2	1
46	80	78	2	1	79	75	4	1	86	83	3	1
47	79	76	3	1	89	86	3	1	89	85	4	1
48	84	82	2	1	90	86	4	1	87	82	5	1
49	89	85	4	1	82	78	4	1	88	80	8	1
50	90	89	1	1	85	82	3	1	90	89	1	1
51	85	78	7	1	88	87	1	1	85	82	3	1

H`U1	3,63	**H`U2**	2,98	**H`U3**	2,63
H1/3 U3	5,71	**H1/3 U3**	5,18	**H1/3 U3**	4,35
T U3	1,51	**T U3**	1,53	**T U3**	1,55
L U3	3,56	**L U3**	3,65	**L U3**	3,74

GELOMBANG STASIUN 10 (cm)

No	U1				U2				U3			
	P	L	H	HU	P	L	H	HU	P	L	H	HU
1	75	68	7	11	81	78	3	12	80	70	10	12
2	78	67	11	10	83	78	5	11	78	70	8	10
3	74	70	4	10	80	75	5	10	81	78	3	10
4	80	75	5	10	78	76	2	10	82	75	7	9
5	78	70	8	10	81	75	6	10	83	78	5	9
6	76	70	6	9	85	80	5	9	80	75	5	8
7	78	71	7	9	85	78	7	9	77	69	8	8
8	77	70	7	9	82	76	6	8	79	70	9	8
9	78	72	6	9	80	77	3	8	82	73	9	8
10	80	74	6	8	78	72	6	8	82	75	7	8
11	77	69	8	8	81	75	6	8	85	80	5	7
12	78	70	8	8	78	70	8	8	80	75	5	7
13	78	70	8	8	79	72	7	7	78	72	6	7
14	80	73	7	8	77	70	7	7	81	75	6	7
15	75	69	6	8	80	74	6	7	81	77	4	7
16	78	70	8	8	78	72	6	7	82	78	4	7
17	80	73	7	7	82	75	7	7	85	80	5	7
18	80	70	10	7	82	77	5	7	84	80	4	7
19	82	79	3	7	80	75	5	7	85	78	7	7
20	81	72	9	7	83	78	5	7	83	79	4	6
21	77	70	7	7	85	78	7	7	85	73	12	6
22	74	67	7	7	82	72	10	7	82	72	10	6
23	74	65	9	7	80	75	5	7	80	75	5	6
24	80	75	5	7	83	74	9	7	83	78	5	6
25	78	70	8	7	85	77	8	7	83	75	8	6
26	74	70	4	7	81	78	3	6	80	77	3	6
27	78	69	9	7	82	75	7	6	81	79	2	6
28	80	75	5	7	81	78	3	6	80	74	6	5
29	76	70	6	6	82	70	12	6	78	72	6	5
30	77	75	2	6	80	75	5	6	80	75	5	5
31	78	72	6	6	77	70	7	6	83	77	6	5
32	77	70	7	6	80	77	3	6	82	79	3	5
33	80	75	5	6	80	73	7	6	83	76	7	5
34	80	70	10	6	83	78	5	5	79	72	7	5
35	82	76	6	6	85	80	5	5	80	77	3	5
36	77	70	7	6	83	75	8	5	82	75	7	5
37	75	70	5	5	80	72	8	5	82	77	5	5
38	75	72	3	5	82	72	10	5	82	75	7	5
39	80	70	10	5	83	72	11	5	80	74	6	5
40	80	75	5	5	80	71	9	5	80	77	3	4
41	78	69	9	5	78	70	8	5	82	75	7	4
42	77	70	7	5	80	75	5	5	80	75	5	4
43	78	72	6	5	80	73	7	5	81	73	8	4
44	80	75	5	5	81	75	6	5	78	70	8	4
45	77	70	7	4	78	72	6	5	78	72	6	3
46	74	70	4	4	80	75	5	3	80	75	5	3
47	77	69	8	4	80	73	7	3	80	73	7	3
48	80	70	10	3	82	75	7	3	81	75	6	3
49	82	79	3	3	80	73	7	3	74	72	2	3
50	80	75	5	3	82	72	10	3	82	78	4	2
51	78	71	7	2	80	73	7	2	80	75	5	2

H`U1	6,63	**H`U2**	6,41	**H`U3**	5,88
H1/3 U3	8,82	**H1/3 U3**	8,59	**H1/3 U3**	8,18
T U3	1,53	**T U3**	1,59	**T U3**	1,45
L U3	3,65	**L U3**	3,94	**L U3**	3,28

Lampiran 2. Data Sekunder Gelombang

No	Sep_2013 (cm)	Sep_2016 (cm)	Apr_2018 (cm)	Nov_2022 (cm)
1	67	17	25	8
2	72	19	16	5
3	70	6	8	1
4	76	3	2	4
5	76	26	1	14
6	53	38	3	41
7	40	41	3	9
8	51	47	9	13
9	34	31	57	9
10	26	28	39	2
11	27	9	23	2
12	27	11	5	1
13	20	7	49	2
14	4	8	41	2
15	5	5	32	2
16	18	4	33	9
17	19	3	18	6
18	15	3	12	44
19	7	3	22	23
20	5	3	5	3
21	4	3	4	1
22	5	1	50	22
23	26	1	68	1
24	13	1	63	1
25	5	1	33	35
26	5	2	35	2
27	5	2	55	20
28	16	1	38	4
29	4	1	34	14
30	2	1	48	30

Lampiran 3. Data Primer Pengukuran Arus

Stasiun	Arah	Waktu	Sudut (Derajat)	Jarak (m)	Kecepatan Arus (m/s)
1	Barat Daya	1'24''	213°	10	0,119
2	Barat Daya	1'27''	217°	10	0,115

3	Barat Daya	1'15"	213°	10	0,133
4	Barat Daya	1'13"	206°	10	0,137
5	Barat Daya	1'20"	218°	10	0,125
6	Barat Daya	1'12"	230°	10	0,139
7	Barat Daya	1'26"	234°	10	0,116
8	Barat Daya	1'13"	227°	10	0,137
9	Barat Daya	1'26"	222°	10	0,116
10	Barat Daya	1'12"	241°	10	0,141

Lampiran 4. Data Primer Pengukuran Pasang Surut

Waktu Pengamatan	Pasang Surut (cm)	MSL (cm)
00.00	160	94,673
01.00	143	94,673
02.00	116	94,673
03.00	78	94,673
04.00	37	94,673
05.00	15	94,673
06.00	8	94,673
07.00	3	94,673
08.00	33	94,673
09.00	70	94,673
10.00	99	94,673
11.00	121	94,673
12.00	129	94,673
13.00	131	94,673
14.00	129	94,673
15.00	123	94,673
16.00	113	94,673
17.00	101	94,673
18.00	92	94,673
19.00	90	94,673
20.00	96	94,673
21.00	115	94,673
22.00	137	94,673
23.00	157	94,673

00.00	165	94,673
01.00	162	94,673
02.00	140	94,673
03.00	105	94,673
04.00	62	94,673
05.00	19	94,673
06.00	14	94,673
07.00	13	94,673
08.00	8	94,673
09.00	2	94,673
10.00	41	94,673
11.00	41	94,673
12.00	80	94,673
13.00	110	94,673
14.00	128	94,673

Lampiran 5. Data Sekunder Pasang Surut

Bulan September 2013 (cm)

Jam / Tanggal	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01-Sep-13	179	173	160	141	119	98	83	75	77	88	105	126	145	160	167	167	161	152	143	137	137	144	154	166
02-Sep-13	176	179	174	161	140	116	94	77	70	74	89	111	135	157	171	176	173	162	148	135	127	128	136	151
03-Sep-13	167	179	183	177	161	137	111	86	70	66	75	95	122	150	171	183	183	173	155	136	121	114	118	132
04-Sep-13	152	172	186	189	180	159	131	102	77	64	65	81	108	139	168	187	192	185	166	142	119	104	101	111
05-Sep-13	132	158	181	195	195	180	154	122	91	69	61	70	94	126	160	186	199	196	179	152	123	99	86	89
06-Sep-13	108	136	167	191	202	197	177	146	111	81	64	64	81	112	149	182	203	207	194	167	133	101	78	71
07-Sep-13	82	109	143	176	199	206	196	170	136	101	75	65	73	99	135	172	201	214	208	185	150	112	79	61
08-Sep-13	61	80	113	151	184	204	206	190	160	125	94	74	72	88	120	158	193	215	219	203	172	131	91	61
09-Sep-13	48	56	82	119	158	188	203	200	181	150	118	91	79	84	107	142	179	209	223	218	194	157	114	75
10-Sep-13	49	42	55	85	123	160	187	198	192	171	142	114	94	89	100	127	161	195	218	225	213	184	144	101
11-Sep-13	66	44	42	58	88	125	158	181	189	182	163	138	115	101	101	116	143	175	203	220	221	205	174	135
12-Sep-13	95	63	45	45	61	90	123	153	173	180	174	158	138	120	111	113	128	153	180	204	216	215	198	168
13-Sep-13	132	96	66	50	49	63	88	118	145	165	173	170	158	142	127	119	121	134	154	178	198	209	208	194
14-Sep-13	168	135	101	73	56	53	63	85	112	139	160	171	171	162	148	134	125	123	132	148	169	188	201	204
15-Sep-13	194	172	142	110	81	61	54	62	81	108	136	160	174	177	169	155	138	124	118	122	135	156	178	196
16-Sep-13	203	198	179	151	118	87	64	54	60	79	108	139	166	182	186	177	158	136	116	105	106	120	143	170
17-Sep-13	193	206	204	187	158	123	90	64	53	60	82	114	149	178	194	195	181	157	128	103	88	89	105	133
18-Sep-13	166	194	210	210	193	162	125	89	63	54	63	90	127	164	193	206	202	181	149	114	85	70	73	94
19-Sep-13	128	166	197	215	213	194	161	122	86	62	57	73	104	144	182	208	216	204	175	136	97	67	54	62
20-Sep-13	89	128	169	201	217	213	190	155	115	82	64	66	88	124	165	200	220	220	199	163	120	79	52	44
21-Sep-13	58	90	132	173	203	215	206	181	145	108	81	70	79	107	145	185	214	226	217	188	147	102	64	42
22-Sep-13	40	60	96	139	177	202	208	196	169	135	103	83	81	97	128	166	200	222	224	207	173	130	87	54
23-Sep-13	39	44	69	106	145	178	197	198	183	156	127	102	91	96	116	148	182	209	222	216	193	156	115	77
24-Sep-13	51	43	54	80	115	150	176	188	186	170	146	122	106	102	112	135	164	192	210	214	202	176	140	103
25-Sep-13	72	54	52	66	92	123	152	171	179	174	159	140	123	114	115	128	150	174	194	204	202	186	160	128
26-Sep-13	97	73	61	63	78	102	128	150	165	170	165	153	139	128	124	128	140	158	176	189	194	188	171	147
27-Sep-13	120	95	77	70	74	88	108	129	148	160	164	160	152	143	135	133	137	147	160	172	180	182	175	160
28-Sep-13	140	118	98	84	79	83	94	111	130	146	157	162	161	155	148	141	138	140	146	155	164	170	172	166
29-Sep-13	155	138	119	102	90	85	87	97	113	130	147	159	165	165	160	152	144	138	137	140	147	155	163	166
30-Sep-13	163	155	140	123	106	93	87	89	98	115	134	152	165	172	171	163	152	140	131	127	129	137	148	159

HASIL TERAKHIR

	So	M2	S2	N2	K2	K1	O1	P1	M4	MS4
A cm	137,5	54,8	23,5	13,5	5,4	14,9	21,3	4,9	0,3	0,5
g		149,7	162,1	274,4	162,1	261,4	109,5	261,4	177,9	173,2

Zo	**=**	**139,2**	**MSL=**	137,5	**FORMZAHL=**	0,5
			HHWL=	253,8	**MHWL=**	217,5
			LLWL=	24,6	**MLWL=**	60,9

Bulan September 2016 (cm)

Jam / Tanggal	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01-Sep-16	134	166	194	211	211	194	163	123	84	55	43	50	76	113	153	186	204	205	189	161	129	101	86	87
02-Sep-16	105	135	169	197	211	208	187	153	113	77	54	48	63	94	134	173	200	212	204	181	148	114	87	76
03-Sep-16	83	106	139	173	198	208	200	176	140	103	72	56	60	82	117	156	190	210	213	197	167	131	98	76
04-Sep-16	71	85	112	146	177	197	201	188	161	127	94	71	65	77	104	141	177	203	214	207	183	150	115	85
05-Sep-16	70	72	91	120	153	179	193	191	174	146	116	90	77	79	98	128	162	192	209	210	195	167	132	100
06-Sep-16	77	69	78	100	129	157	177	185	178	159	134	109	92	87	97	120	150	179	200	208	201	180	149	117
07-Sep-16	90	74	72	85	108	135	158	172	175	165	147	126	108	99	102	117	140	167	189	202	202	188	164	134
08-Sep-16	105	84	74	77	92	114	137	156	165	165	155	140	125	113	111	118	134	156	177	193	198	192	175	151
09-Sep-16	123	99	82	76	82	97	116	136	151	158	157	150	139	128	122	123	132	147	165	181	191	192	183	165
10-Sep-16	142	117	96	82	78	84	97	115	132	146	154	155	150	143	135	132	133	141	153	167	180	186	186	176
11-Sep-16	160	138	115	95	82	78	82	94	111	128	143	153	157	155	150	143	139	138	143	153	164	175	182	183
12-Sep-16	175	160	139	116	95	81	74	77	89	107	127	145	158	164	163	157	148	140	137	138	146	158	171	181
13-Sep-16	184	178	164	142	118	94	76	68	71	85	106	130	153	168	175	172	162	148	135	127	127	136	151	169
14-Sep-16	183	190	186	170	146	117	90	69	60	65	83	110	140	165	181	185	177	161	140	122	112	113	125	146
15-Sep-16	170	190	199	195	177	148	114	83	61	54	64	88	121	155	181	195	193	178	153	126	104	93	98	117
16-Sep-16	145	176	199	209	203	180	146	109	76	55	52	68	99	138	173	198	206	196	171	139	106	82	75	85
17-Sep-16	112	148	183	209	218	207	180	141	101	69	52	56	79	117	158	193	213	212	193	159	120	84	62	59
18-Sep-16	77	111	153	191	216	221	206	175	134	94	65	55	66	97	138	180	211	223	213	184	143	100	64	45
19-Sep-16	49	74	114	159	197	219	220	201	166	126	89	66	64	83	118	161	199	223	226	208	172	126	81	48
20-Sep-16	35	45	75	118	163	198	216	213	191	157	119	88	73	78	102	139	180	213	229	224	198	158	111	68
21-Sep-16	39	31	46	79	122	164	195	208	202	180	148	116	92	84	94	121	158	194	220	228	217	187	145	100
22-Sep-16	61	38	34	51	83	123	161	187	197	191	171	144	118	100	97	111	137	169	200	219	222	208	177	137
23-Sep-16	96	62	42	41	57	86	122	154	177	186	181	165	143	123	110	110	123	146	173	198	213	213	198	170
24-Sep-16	135	98	68	50	48	62	87	118	147	168	178	176	164	147	131	120	119	129	147	170	190	203	204	192
25-Sep-16	168	137	104	77	59	55	65	86	113	140	162	174	175	167	153	138	126	122	128	141	160	179	192	196
26-Sep-16	189	170	143	113	86	67	60	66	85	110	138	161	176	180	173	159	142	127	119	120	130	148	168	184
27-Sep-16	193	189	174	150	121	92	71	62	67	84	111	141	166	183	187	179	162	141	121	109	107	117	136	160
28-Sep-16	180	193	193	179	155	125	95	73	63	68	88	118	150	177	193	195	183	161	134	110	95	93	105	128
29-Sep-16	156	181	196	196	182	157	125	94	72	64	73	97	130	163	190	202	199	181	153	121	95	80	81	98
30-Sep-16	126	158	184	199	198	182	153	120	90	71	68	83	111	147	180	202	209	198	173	139	105	79	68	74

HASIL TERAKHIR

	So	**M2**	**S2**	**N2**	**K2**	**K1**	**O1**	**P1**	**M4**	**MS4**
A cm	137,5	55,5	23,3	13,8	5,4	14,6	19,3	4,8	0,2	0,3
g		233,8	165,1	278,8	165,1	275,5	180,4	275,5	335,6	235,1

Zo	**=**	**137,2**	**MSL=**	137,5	**FORMZAH**	0,4
			HHWL=	249,9	**MHWL=**	216,0
			LLWL=	24,5	**MLWL=**	58,4

Bulan April 2018 (cm)

Jam / Tanggal	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01-Apr-16	85	121	163	198	217	217	197	162	120	81	55	49	64	96	138	177	206	216	206	179	143	105	78	67
02-Apr-16	77	105	143	182	211	223	214	186	146	102	65	44	44	66	102	144	181	205	210	196	168	133	101	81
03-Apr-16	79	95	127	164	198	219	221	204	170	127	86	54	40	47	73	111	150	182	200	200	183	156	125	101
04-Apr-16	89	95	116	148	181	208	219	213	189	152	111	74	50	43	56	84	120	154	180	191	187	170	146	122
05-Apr-16	105	102	113	136	165	192	209	212	199	171	135	98	68	52	52	68	95	127	156	175	181	175	160	140
06-Apr-16	123	114	116	130	151	175	195	204	200	182	155	122	91	69	58	63	80	105	131	154	168	172	166	154
07-Apr-16	140	129	125	130	143	161	179	191	193	185	167	142	114	90	73	67	73	89	111	133	151	162	165	161
08-Apr-16	153	143	136	135	140	151	163	175	182	181	172	156	134	111	92	79	76	82	95	113	132	148	159	163
09-Apr-16	162	156	149	143	142	144	151	160	168	172	171	163	150	132	113	96	85	81	86	98	114	132	148	160
10-Apr-16	166	166	161	154	147	142	142	145	152	159	164	165	160	149	134	116	100	88	83	87	98	115	135	153
11-Apr-16	166	173	172	165	155	144	136	132	135	142	152	161	165	163	153	138	119	101	88	82	86	100	120	142
12-Apr-16	162	176	181	176	165	149	133	122	119	123	135	149	163	171	170	160	142	120	99	85	80	86	104	128
13-Apr-16	154	175	187	187	176	158	136	116	104	103	113	131	152	171	181	179	166	144	118	95	80	78	90	113
14-Apr-16	142	170	190	197	190	170	144	116	95	85	89	107	133	160	182	192	187	169	143	114	90	77	80	99
15-Apr-16	128	160	188	203	202	186	158	124	92	71	66	79	105	139	171	194	201	192	169	138	108	85	78	88
16-Apr-16	113	147	180	204	213	203	176	139	100	68	51	53	74	109	149	183	204	207	193	165	132	102	84	83
17-Apr-16	100	131	168	199	218	217	197	161	118	76	46	35	45	75	116	158	192	210	208	189	158	126	99	87
18-Apr-16	93	117	151	187	215	225	215	186	144	97	56	30	26	44	79	124	166	197	210	204	182	151	121	100
19-Apr-16	94	107	134	170	203	224	226	208	173	127	80	42	22	24	48	86	131	171	197	206	197	174	146	119
20-Apr-16	104	104	121	150	184	212	226	222	198	159	113	69	37	22	29	55	93	135	171	194	199	189	168	143
21-Apr-16	121	111	115	133	161	190	213	222	213	187	149	106	66	38	28	37	62	99	137	168	188	192	183	164
22-Apr-16	143	125	118	123	139	164	189	207	213	203	179	144	106	71	47	38	46	69	102	136	164	182	187	180
23-Apr-16	164	145	130	122	125	139	159	180	196	202	195	175	145	112	80	58	49	55	75	103	134	161	180	186
24-Apr-16	181	167	149	132	122	121	130	147	166	183	192	190	175	151	121	92	70	59	62	79	105	134	162	182
25-Apr-16	189	185	170	150	130	115	110	116	131	151	171	185	189	180	160	133	104	80	67	68	82	108	138	167
26-Apr-16	188	196	190	173	148	123	103	94	97	114	138	163	183	192	187	169	142	113	87	72	72	87	114	147
27-Apr-16	177	198	204	195	172	141	110	86	74	79	99	128	160	184	197	194	176	148	117	91	76	78	95	125
28-Apr-16	160	191	209	211	195	165	128	93	66	56	65	90	125	161	189	202	198	179	149	118	92	80	85	107
29-Apr-16	140	176	205	218	213	190	153	111	74	49	43	57	88	127	166	194	205	199	177	146	116	93	86	97
30-Apr-16	123	158	192	216	223	210	179	137	93	56	35	35	56	92	134	172	198	205	195	171	141	113	96	95

HASIL TERAKHIR										
	So	**M2**	**S2**	**N2**	**K2**	**K1**	**O1**	**P1**	**M4**	**MS4**
A cm	137,5	54,9	22,9	12,8	5,3	17,5	20,8	5,8	0,3	0,4
g		262,9	157,4	286,0	157,4	47,1	52,6	47,1	49,6	268,1

Zo = 140,7 **MSL=** 137,5 **FORMZAHL=** 0,5
HHWL= 256,8 **MHWL=** 218,5
LLWL= 24,5 **MLWL=** 62,8

Bulan November 2022 (cm)

Jam / Tanggal	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01-Nov-22	95	61	39	33	43	68	100	133	161	178	183	178	165	150	137	133	138	151	169	187	199	200	189	167
02-Nov-22	136	103	74	54	47	55	76	104	134	160	178	184	179	167	151	136	128	128	137	152	169	183	189	184
03-Nov-22	169	144	116	89	69	60	65	83	109	138	164	182	189	183	169	149	130	116	112	118	132	151	170	182
04-Nov-22	184	174	155	129	102	82	71	74	90	116	146	173	191	196	188	169	143	118	99	91	95	112	136	160
05-Nov-22	179	187	182	165	140	113	91	80	83	100	127	158	185	202	203	190	164	132	101	78	68	75	96	125
06-Nov-22	156	180	192	189	172	147	120	98	87	92	112	142	174	200	212	208	188	155	116	80	56	48	59	86
07-Nov-22	121	157	184	196	193	175	149	122	102	95	104	127	159	191	213	220	208	180	140	97	60	37	34	51
08-Nov-22	83	123	161	188	199	193	174	148	122	106	104	118	145	177	206	223	222	202	166	122	77	42	24	28
09-Nov-22	51	88	130	167	191	199	190	170	144	122	111	115	134	162	193	217	226	217	189	148	102	59	30	19
10-Nov-22	30	58	98	139	172	192	195	184	163	141	124	119	128	150	178	205	222	222	205	172	129	84	46	24
11-Nov-22	22	39	71	111	148	176	190	189	176	157	139	127	128	142	164	190	210	219	211	188	152	110	70	40
12-Nov-22	26	31	53	86	123	156	178	187	183	169	153	139	133	139	154	175	195	208	209	195	168	132	94	61
13-Nov-22	39	34	45	70	102	135	161	178	182	177	165	151	142	140	148	162	180	194	200	195	177	149	116	84
14-Nov-22	58	45	46	61	86	115	144	165	177	179	173	162	152	146	146	154	166	179	187	188	179	160	134	106
15-Nov-22	80	61	54	59	76	100	126	150	167	176	177	171	162	153	148	148	154	163	172	177	175	165	147	125
16-Nov-22	102	82	68	65	73	89	111	135	156	170	177	177	171	161	152	146	145	149	155	161	165	163	155	141
17-Nov-22	123	104	88	78	76	84	100	121	142	161	175	180	179	171	159	148	140	136	137	143	149	154	155	151
18-Nov-22	141	126	110	96	87	86	94	109	129	150	169	181	185	180	168	153	138	126	120	121	128	138	148	154
19-Nov-22	153	146	134	119	105	95	94	102	117	138	160	178	189	189	180	162	141	121	107	100	104	115	130	146
20-Nov-22	157	161	156	144	128	112	102	101	109	127	150	173	190	197	192	176	151	124	99	83	79	86	104	127
21-Nov-22	150	166	171	166	153	135	118	107	107	118	139	164	187	202	205	192	167	135	101	74	58	58	73	99
22-Nov-22	129	157	176	182	176	160	140	121	112	114	129	153	180	203	214	209	188	155	115	77	48	35	41	64
23-Nov-22	98	135	167	187	192	182	163	142	124	116	122	142	169	197	217	223	210	180	139	93	52	25	17	30
24-Nov-22	61	102	144	177	195	197	185	164	141	125	121	132	155	185	213	229	227	206	169	121	72	32	8	6
25-Nov-22	27	64	109	153	185	201	199	184	161	140	126	127	142	168	199	224	235	227	199	155	104	55	17	1
26-Nov-22	4	30	72	119	161	190	202	197	180	157	138	128	132	151	179	208	229	235	221	189	142	91	44	11
27-Nov-22	2	9	39	82	129	168	193	201	193	175	153	135	129	136	156	184	211	228	229	212	178	132	83	41
28-Nov-22	13	6	20	52	95	138	173	194	198	189	170	149	133	128	136	156	182	206	220	219	201	168	125	81
29-Nov-22	45	22	19	36	67	107	146	177	194	196	184	165	145	130	125	133	151	174	195	207	206	190	161	124
30-Nov-22	86	55	37	37	53	83	119	154	181	195	194	182	162	141	125	118	124	139	159	179	191	193	181	157

HASIL TERAKHIR										
	So	**M2**	**S2**	**N2**	**K2**	**K1**	**O1**	**P1**	**M4**	**MS4**
A cm	137,5	51,6	18,7	12,4	4,3	29,4	28,9	9,7	0,4	0,3
g		61,9	143,2	11,5	143,2	194,5	67,7	194,5	2,3	120,2

Zo = 155,6 **MSL=** 137,5 **FORMZAHL=** 0,8
HHWL= 284,2 **MHWL=** 225,9
LLWL= 27,0 **MLWL=** 85,3

Lampiran 6. Data Pengukuran Kemiringan Pantai

STASIUN 1						
Ulangan	Jarak antar titik X (m)	Y (cm)	Y (m)	tan β (Y/X)	Kemiringan β	Kategori
U1	10	94	0,94	0,094	5,370	Miring
U2	10	97	0,97	0,097	5,540	Miring
U3	10	101	1,01	0,101	5,767	Miring
U4	10	105	1,05	0,105	5,994	Miring

STASIUN 2						
Ulangan	Jarak antar titik X (m)	Y (cm)	Y (m)	tan β (Y/X)	Kemiringan β	Kategori
U1	10	104	1,04	0,104	5,937	Miring
U2	10	107	1,07	0,107	6,107	Miring
U3	10	109	1,09	0,109	6,220	Miring
U4	10	111	1,11	0,111	6,333	Miring

STASIUN 3						
Ulangan	Jarak antar titik X (m)	Y (cm)	Y (m)	tan β (Y/X)	Kemiringan β	Kategori
U1	10	113	1,13	0,113	6,447	Miring
U2	10	114	1,14	0,114	6,503	Miring
U3	10	121	1,21	0,121	6,899	Miring
U4	10	124	1,24	0,124	7,068	Miring

STASIUN 4						
Ulangan	Jarak antar titik X (m)	Y (cm)	Y *m)	tan β (Y/X)	Kemiringan β	Kategori
U1	10	105	1,05	0,105	5,994	Miring
U2	10	109	1,09	0,109	6,220	Miring
U3	10	113	1,13	0,113	6,447	Miring
U4	10	116	1,16	0,116	6,616	Miring

STASIUN 5						
Ulangan	Jarak antar titik X (m)	Y (cm)	Y (m)	tan β (Y/X)	Kemiringan β	Kategori
U1	10	19	0,19	0,019	1,088	Datar
U2	10	27	0,27	0,027	1,546	Datar
U3	10	37	0,37	0,037	2,118	Datar
U4	10	49	0,49	0,049	2,805	Datar

STASIUN 6						
Ulangan	Jarak antar titik X (m)	Y (cm)	Y (m)	tan β (Y/X)	Kemiringan β	Kategori
U1	10	34	0,34	0,034	1,947	Datar
U2	10	52	0,52	0,052	3,090	Landai
U3	10	71	0,71	0,071	4,061	Landai
U4	10	103	1,03	0,103	5,880	Miring

STASIUN 7						
Ulangan	Jarak antar titik X (m)	Y (cm)	Y (cm)	tan β (Y/X)	Kemiringan β	Kategori
U1	10	33	0,33	0,033	1,890	Datar
U2	10	39	0,39	0,039	2,233	Datar
U3	10	42	0,42	0,042	2,405	Datar
U4	10	44	0,44	0,044	2,519	Datar

STASIUN 8						
Ulangan	Jarak antar titik X (m)	Y (cm)	Y (m)	tan β (Y/X)	Kemiringan β	Kategori
U1	10	67	0,67	0,067	3,833	Miring
U2	10	69	0,69	0,069	3,947	Miring
U3	10	72	0,72	0,072	4,118	Miring
U4	10	76	0,76	0,076	4,346	Miring

STASIUN 9						
Ulangan	Jarak antar titik X (m)	Y (cm)	Y (m)	tan β (Y/X)	Kemiringan β	Kategori
U1	10	52	0,52	0,052	2,976	Landai
U2	10	83	0,83	0,083	4,744	Miring
U3	10	93	0,93	0,093	5,313	Miring
U4	10	98	0,98	0,098	5,597	Miring

STASIUN 10						
Ulangan	Jarak antar titik X (m)	Y (cm)	Y (m)	tan β (Y/X)	Kemiringan β	Kategori
U1	10	66	0,66	0,066	3,776	Miring
U2	10	100	1,00	0,100	5,710	Miring
U3	10	103	1,03	0,103	5,880	Miring
U4	10	105	1,05	0,105	5,994	Miring

Lampiran 7. Data Primer Analisis Ukuran Butir Sedimen

Stasiun 1 Utara U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	839,7	602,9	0,730	711,7	0,491	Coarse Sand
SORTING (σ):	531,3	2,594	1,375	2,266	1,180	Poorly Sorted
SKEWNESS (Sk):	0,417	-1,378	1,378	-0,756	0,756	Very Fine Skewed
KURTOSIS (K):	3,159	5,705	5,705	0,835	0,835	Platykurtic

Stasiun 2 Utara U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	804,5	557,3	0,844	620,7	0,688	Coarse Sand
SORTING (σ):	554,5	2,707	1,437	2,298	1,201	Poorly Sorted
SKEWNESS (Sk):	0,654	-1,255	1,255	-0,392	0,392	Very Fine Skewed
KURTOSIS (K):	3,354	5,333	5,333	0,840	0,840	Platykurtic

Stasiun 1 Timur U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	615,5	368,1	1,442	372,4	1,425	Medium Sand
SORTING (σ):	593,2	2,876	1,524	2,700	1,433	Poorly Sorted
SKEWNESS (Sk):	1,324	-0,158	0,158	0,130	-0,130	Coarse Skewed
KURTOSIS (K):	4,341	2,630	2,630	0,613	0,613	Very Platykurtic

Stasiun 1 Timur U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$)	589,3	345,0	1,535	362,7	1,463	Medium Sand
SORTING (σ):	596,0	2,902	1,537	2,720	1,443	Poorly Sorted
SKEWNESS (Sk):	1,451	-0,082	0,082	0,151	-0,151	Coarse Skewed
KURTOSIS (K):	4,662	2,662	2,662	0,619	0,619	Very Platykurtic

Stasiun 1 Selatan U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$)	750,7	508,2	0,976	573,3	0,803	Coarse Sand
SORTING (σ):	563,4	2,685	1,425	2,319	1,214	Poorly Sorted
SKEWNESS (Sk):	0,857	-0,866	0,866	-0,214	0,214	Fine Skewed
KURTOSIS (K):	3,564	3,975	3,975	0,838	0,838	Platykurtic

Stasiun 1 Selatan U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$)	734,4	490,1	1,029	548,2	0,867	Coarse Sand
SORTING (σ):	578,9	2,703	1,435	2,317	1,212	Poorly Sorted
SKEWNESS (Sk):	0,983	-0,815	0,815	-0,090	0,090	Symmetrical
KURTOSIS (K):	3,693	4,192	4,192	0,829	0,829	Platykurtic

Stasiun 1 Barat U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$)	524,9	419,9	1,252	453,0	1,143	Medium Sand
SORTING (σ):	377,7	2,042	1,030	1,724	0,786	Moderately Sorted
SKEWNESS (Sk):	3,150	-1,747	1,747	-0,368	0,368	Very Fine Skewed
KURTOSIS (K):	16,01	11,88	11,88	1,143	1,143	Leptokurtic

Stasiun 2 Utara U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$)	637,3	433,6	1,206	457,0	1,130	Medium Sand
SORTING (σ):	520,6	2,507	1,326	2,414	1,271	Poorly Sorted
SKEWNESS (Sk):	1,287	-0,292	0,292	-0,245	0,245	Fine Skewed
KURTOSIS (K):	4,898	2,430	2,430	0,528	0,528	Very Platykurtic

Stasiun 2 Utara U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$)	620,6	416,8	1,263	452,2	1,145	Medium Sand
SORTING (σ):	504,9	2,601	1,379	2,416	1,273	Poorly Sorted
SKEWNESS (Sk):	1,221	-0,542	0,542	-0,240	0,240	Fine Skewed
KURTOSIS (K):	4,745	3,436	3,436	0,526	0,526	Very Platykurtic

Stasiun 2 Timur U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$)	562,7	341,2	1,551	367,7	1,443	Medium Sand
SORTING (σ):	543,0	2,911	1,542	2,615	1,387	Poorly Sorted
SKEWNESS (Sk):	1,454	-0,584	0,584	0,176	-0,176	Coarse Skewed
KURTOSIS (K):	4,902	4,348	4,348	0,613	0,613	Very Platykurtic

Stasiun 2 Timur U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	577,6	349,8	1,515	370,8	1,431	Medium Sand
SORTING (σ):	558,9	2,903	1,538	2,610	1,384	Poorly Sorted
SKEWNESS (Sk):	1,441	-0,543	0,543	0,180	-0,180	Coarse Skewed
KURTOSIS (K):	4,787	4,256	4,256	0,607	0,607	Very Platykurtic

Stasiun 2 Selatan U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	633,9	376,4	1,410	372,8	1,423	Medium Sand
SORTING (σ):	579,6	2,954	1,563	2,647	1,404	Poorly Sorted
SKEWNESS (Sk):	0,993	-0,243	0,243	0,182	-0,182	Coarse Skewed
KURTOSIS (K):	3,485	2,694	2,694	0,569	0,569	Very Platykurtic

Stasiun 2 Selatan U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	679,1	396,6	1,334	381,4	1,391	Medium Sand
SORTING (σ):	614,1	3,059	1,613	2,649	1,406	Poorly Sorted
SKEWNESS (Sk):	0,930	-0,323	0,323	0,158	-0,158	Coarse Skewed
KURTOSIS (K):	3,311	2,720	2,720	0,559	0,559	Very Platykurtic

Stasiun 2 Barat U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	696,6	384,1	1,380	388,2	1,365	Medium Sand
SORTING (σ):	618,7	3,516	1,814	2,763	1,466	Poorly Sorted
SKEWNESS (Sk):	0,849	-0,755	0,755	0,049	-0,049	Symmetrical
KURTOSIS (K):	3,189	3,521	3,521	0,596	0,596	Very Platykurtic

Stasiun 2 Barat U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	715,9	408,5	1,292	451,5	1,147	Medium Sand
SORTING (σ):	626,3	3,344	1,742	2,896	1,534	Poorly Sorted
SKEWNESS (Sk):	0,879	-0,717	0,717	-0,199	0,199	Fine Skewed
KURTOSIS (K):	3,271	3,472	3,472	0,668	0,668	Very Platykurtic

Stasiun 3 Utara U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	592,6	324,8	1,622	361,9	1,466	Medium Sand
SORTING (σ):	563,3	3,368	1,752	3,139	1,650	Poorly Sorted
SKEWNESS (Sk):	1,283	-0,385	0,385	-0,391	0,391	Very Fine Skewed
KURTOSIS (K):	4,660	2,301	2,301	0,500	0,500	Very Platykurtic

Stasiun 3 Utara U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	643,3	346,8	1,528	371,2	1,430	Medium Sand
SORTING (σ):	576,6	3,563	1,833	3,192	1,674	Poorly Sorted
SKEWNESS (Sk):	1,026	-0,489	0,489	-0,433	0,433	Very Fine Skewed
KURTOSIS (K):	3,988	2,159	2,159	0,482	0,482	Very Platykurtic

Stasiun 3 Timur U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic μm	Geometric μm	Logarithmic ϕ	Geometric μm	Logarithmic ϕ	Description
MEAN $(\bar{x})$:	641,6	356,3	1,489	374,6	1,417	Medium Sand
SORTING (σ):	556,4	3,527	1,818	3,161	1,661	Poorly Sorted
SKEWNESS (Sk):	1,018	-0,678	0,678	-0,439	0,439	Very Fine Skewed
KURTOSIS (K):	4,098	2,691	2,691	0,492	0,492	Very Platykurtic

Stasiun 3 Timur U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic μm	Geometric μm	Logarithmic ϕ	Geometric μm	Logarithmic ϕ	Description
MEAN $(\bar{x})$:	633,2	354,3	1,497	373,3	1,422	Medium Sand
SORTING (σ):	550,8	3,434	1,780	3,154	1,657	Poorly Sorted
SKEWNESS (Sk):	0,985	-0,573	0,573	-0,431	0,431	Very Fine Skewed
KURTOSIS (K):	3,981	2,429	2,429	0,490	0,490	Very Platykurtic

Stasiun 3 Selatan U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic μm	Geometric μm	Logarithmic ϕ	Geometric μm	Logarithmic ϕ	Description
MEAN $(\bar{x})$:	534,4	214,9	2,218	288,2	1,795	Medium Sand
SORTING (σ):	603,4	5,171	2,370	3,983	1,994	Poorly Sorted
SKEWNESS (Sk):	1,841	-0,698	0,698	-0,584	0,584	Very Fine Skewed
KURTOSIS (K):	6,208	2,564	2,564	0,984	0,984	Mesokurtic

Stasiun 3 Selatan U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic μm	Geometric μm	Logarithmic ϕ	Geometric μm	Logarithmic ϕ	Description
MEAN $(\bar{x})$:	529,0	219,4	2,189	325,2	1,621	Medium Sand
SORTING (σ):	591,0	4,957	2,309	4,225	2,079	Very Poorly Sorted
SKEWNESS (Sk):	1,831	-0,685	0,685	-0,470	0,470	Very Fine Skewed
KURTOSIS (K):	6,304	2,610	2,610	0,953	0,953	Mesokurtic

Stasiun 3 Barat U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic μm	Geometric μm	Logarithmic ϕ	Geometric μm	Logarithmic ϕ	Description
MEAN $(\bar{x})$:	561,6	242,0	2,047	292,4	1,774	Medium Sand
SORTING (σ):	604,9	5,043	2,334	3,942	1,979	Poorly Sorted
SKEWNESS (Sk):	1,890	-0,886	0,886	-0,604	0,604	Very Fine Skewed
KURTOSIS (K):	6,362	2,884	2,884	1,005	1,005	Mesokurtic

Stasiun 3 Barat U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic μm	Geometric μm	Logarithmic ϕ	Geometric μm	Logarithmic ϕ	Description
MEAN $(\bar{x})$:	570,8	250,6	1,997	294,5	1,764	Medium Sand
SORTING (σ):	600,0	5,013	2,326	3,922	1,972	Poorly Sorted
SKEWNESS (Sk):	1,862	-0,929	0,929	-0,610	0,610	Very Fine Skewed
KURTOSIS (K):	6,331	2,947	2,947	0,998	0,998	Mesokurtic

Stasiun 4 Utara U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic μm	Geometric μm	Logarithmic ϕ	Geometric μm	Logarithmic ϕ	Description
MEAN $(\bar{x})$:	616,6	288,5	1,793	361,1	1,470	Medium Sand
SORTING (σ):	577,4	4,509	2,173	3,665	1,874	Poorly Sorted
SKEWNESS (Sk):	1,069	-0,802	0,802	-0,484	0,484	Very Fine Skewed
KURTOSIS (K):	4,034	2,862	2,862	0,617	0,617	Very Platykurtic

Stasiun 4 Utara U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	630,4	346,4	1,529	371,0	1,430	Medium Sand
SORTING (σ):	545,3	3,676	1,878	3,163	1,661	Poorly Sorted
SKEWNESS (Sk):	1,110	-0,848	0,848	-0,445	0,445	Very Fine Skewed
KURTOSIS (K):	4,462	3,119	3,119	0,499	0,499	Very Platykurtic

Stasiun 4 Timur U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	564,0	256,6	1,962	346,9	1,527	Medium Sand
SORTING (σ):	580,4	4,319	2,111	3,469	1,794	Poorly Sorted
SKEWNESS (Sk):	1,296	-0,562	0,562	-0,417	0,417	Very Fine Skewed
KURTOSIS (K):	4,540	2,622	2,622	0,566	0,566	Very Platykurtic

Stasiun 4 Timur U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	590,1	275,8	1,858	354,5	1,496	Medium Sand
SORTING (σ):	585,5	4,298	2,104	3,431	1,779	Poorly Sorted
SKEWNESS (Sk):	1,247	-0,653	0,653	-0,435	0,435	Very Fine Skewed
KURTOSIS (K):	4,435	2,726	2,726	0,555	0,555	Very Platykurtic

Stasiun 4 Selatan U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	461,2	233,8	2,097	252,5	1,986	Medium Sand
SORTING (σ):	515,7	3,637	1,863	2,785	1,478	Poorly Sorted
SKEWNESS (Sk):	2,220	-0,474	0,474	-0,237	0,237	Fine Skewed
KURTOSIS (K):	8,743	2,854	2,854	0,601	0,601	Very Platykurtic

Stasiun 4 Selatan U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	442,7	202,9	2,301	235,4	2,087	Fine Sand
SORTING (σ):	512,0	4,152	2,054	3,235	1,694	Poorly Sorted
SKEWNESS (Sk):	2,230	-0,544	0,544	-0,238	0,238	Fine Skewed
KURTOSIS (K):	8,841	2,757	2,757	0,773	0,773	Platykurtic

Stasiun 4 Barat U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	447,9	202,6	2,303	235,6	2,086	Fine Sand
SORTING (σ):	531,1	4,200	2,070	3,291	1,718	Poorly Sorted
SKEWNESS (Sk):	2,289	-0,553	0,553	-0,246	0,246	Fine Skewed
KURTOSIS (K):	8,791	2,796	2,796	0,799	0,799	Platykurtic

Stasiun 4 Barat U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	400,4	190,6	2,392	195,7	2,354	Fine Sand
SORTING (σ):	462,3	3,903	1,965	3,077	1,622	Poorly Sorted
SKEWNESS (Sk):	2,360	-0,482	0,482	0,147	-0,147	Coarse Skewed
KURTOSIS (K):	10,25	2,794	2,794	0,724	0,724	Platykurtic

Stasiun 5 Utara U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	609,9	299,3	1,740	361,1	1,469	Medium Sand
SORTING (σ):	559,6	4,219	2,077	3,338	1,739	Poorly Sorted
SKEWNESS (Sk):	1,056	-0,779	0,779	-0,446	0,446	Very Fine Skewed
KURTOSIS (K):	4,101	2,860	2,860	0,524	0,524	Very Platykurtic

Stasiun 5 Utara U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	597,3	293,0	1,771	358,6	1,479	Medium Sand
SORTING (σ):	552,9	4,187	2,066	3,322	1,732	Poorly Sorted
SKEWNESS (Sk):	1,074	-0,756	0,756	-0,438	0,438	Very Fine Skewed
KURTOSIS (K):	4,150	2,846	2,846	0,522	0,522	Very Platykurtic

Stasiun 5 Timur U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	615,3	325,1	1,621	365,0	1,454	Medium Sand
SORTING (σ):	553,7	3,762	1,912	3,186	1,672	Poorly Sorted
SKEWNESS (Sk):	1,075	-0,700	0,700	-0,424	0,424	Very Fine Skewed
KURTOSIS (K):	4,198	2,791	2,791	0,489	0,489	Very Platykurtic

Stasiun 5 Timur U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	632,5	334,4	1,580	367,7	1,443	Medium Sand
SORTING (σ):	565,8	3,801	1,926	3,196	1,676	Poorly Sorted
SKEWNESS (Sk):	1,100	-0,749	0,749	-0,433	0,433	Very Fine Skewed
KURTOSIS (K):	4,257	2,858	2,858	0,489	0,489	Very Platykurtic

Stasiun 5 Selatan U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	804,2	519,5	0,945	598,7	0,740	Coarse Sand
SORTING (σ):	523,1	3,554	1,829	2,467	1,303	Poorly Sorted
SKEWNESS (Sk):	0,846	-2,051	2,051	-0,364	0,364	Very Fine Skewed
KURTOSIS (K):	4,301	7,073	7,073	1,697	1,697	Very Leptokurtic

Stasiun 5 Selatan U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	803,5	505,6	0,984	518,0	0,949	Coarse Sand
SORTING (σ):	539,3	3,673	1,877	2,785	1,478	Poorly Sorted
SKEWNESS (Sk):	0,880	-1,935	1,935	-0,453	0,453	Very Fine Skewed
KURTOSIS (K):	4,256	6,484	6,484	1,731	1,731	Very Leptokurtic

Stasiun 5 Barat U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	802,8	480,2	1,058	575,8	0,796	Coarse Sand
SORTING (σ):	595,8	3,574	1,838	2,738	1,453	Poorly Sorted
SKEWNESS (Sk):	0,598	-1,400	1,400	-0,781	0,781	Very Fine Skewed
KURTOSIS (K):	3,114	4,977	4,977	0,821	0,821	Platykurtic

Stasiun 5 Barat U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	803,6	495,0	1,014	518,5	0,948	Coarse Sand
SORTING (σ):	567,5	3,605	1,850	2,691	1,428	Poorly Sorted
SKEWNESS (Sk):	0,687	-1,708	1,708	-0,464	0,464	Very Fine Skewed
KURTOSIS (K):	3,505	5,957	5,957	0,896	0,896	Platykurtic

Stasiun 6 Utara U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	625,8	307,1	1,703	363,7	1,459	Medium Sand
SORTING (σ):	572,5	4,265	2,093	3,400	1,765	Poorly Sorted
SKEWNESS (Sk):	1,080	-0,824	0,824	-0,459	0,459	Very Fine Skewed
KURTOSIS (K):	4,135	2,940	2,940	0,542	0,542	Very Platykurtic

Stasiun 6 Utara U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	626,2	307,8	1,700	363,8	1,459	Medium Sand
SORTING (σ):	574,6	4,251	2,088	3,390	1,761	Poorly Sorted
SKEWNESS (Sk):	1,094	-0,824	0,824	-0,455	0,455	Very Fine Skewed
KURTOSIS (K):	4,158	2,957	2,957	0,541	0,541	Very Platykurtic

Stasiun 6 Timur U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	664,6	351,1	1,510	375,3	1,414	Medium Sand
SORTING (σ):	584,1	3,840	1,941	3,206	1,681	Poorly Sorted
SKEWNESS (Sk):	1,003	-0,773	0,773	-0,445	0,445	Very Fine Skewed
KURTOSIS (K):	3,936	2,869	2,869	0,488	0,488	Very Platykurtic

Stasiun 6 Timur U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	628,4	337,9	1,566	370,4	1,433	Medium Sand
SORTING (σ):	566,1	3,645	1,866	3,168	1,664	Poorly Sorted
SKEWNESS (Sk):	1,071	-0,670	0,670	-0,419	0,419	Very Fine Skewed
KURTOSIS (K):	4,104	2,813	2,813	0,495	0,495	Very Platykurtic

Stasiun 6 Selatan U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	655,4	268,2	1,898	282,1	1,826	Medium Sand
SORTING (σ):	668,6	4,696	2,231	3,506	1,810	Poorly Sorted
SKEWNESS (Sk):	0,831	-0,325	0,325	0,157	-0,157	Coarse Skewed
KURTOSIS (K):	2,924	2,078	2,078	0,519	0,519	Very Platykurtic

Stasiun 6 Selatan U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	636,5	256,8	1,961	281,9	1,827	Medium Sand
SORTING (σ):	650,2	4,818	2,268	3,578	1,839	Poorly Sorted
SKEWNESS (Sk):	0,834	-0,374	0,374	0,017	-0,017	Symmetrical
KURTOSIS (K):	2,957	2,154	2,154	0,540	0,540	Very Platykurtic

Stasiun 6 Barat U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	633,3	371,8	1,427	371,5	1,429	Medium Sand
SORTING (σ):	582,0	3,008	1,589	2,676	1,420	Poorly Sorted
SKEWNESS (Sk):	0,996	-0,281	0,281	0,170	-0,170	Coarse Skewed
KURTOSIS (K):	3,492	2,755	2,755	0,578	0,578	Very Platykurtic

Stasiun 6 Barat U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	676,1	393,2	1,347	380,5	1,394	Medium Sand
SORTING (σ):	613,1	3,087	1,626	2,655	1,409	Poorly Sorted
SKEWNESS (Sk):	0,937	-0,365	0,365	0,159	-0,159	Coarse Skewed
KURTOSIS (K):	3,327	2,861	2,861	0,562	0,562	Very Platykurtic

Stasiun 7 Utara U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	621,5	363,9	1,459	368,5	1,440	Medium Sand
SORTING (σ):	538,6	3,191	1,674	3,138	1,650	Poorly Sorted
SKEWNESS (Sk):	1,121	-0,467	0,467	-0,419	0,419	Very Fine Skewed
KURTOSIS (K):	4,428	2,048	2,048	0,492	0,492	Very Platykurtic

Stasiun 7 Utara U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	625,5	352,3	1,505	367,5	1,444	Medium Sand
SORTING (σ):	558,1	3,394	1,763	3,157	1,658	Poorly Sorted
SKEWNESS (Sk):	1,164	-0,597	0,597	-0,411	0,411	Very Fine Skewed
KURTOSIS (K):	4,416	2,587	2,587	0,493	0,493	Very Platykurtic

Stasiun 7 Timur U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	642,6	350,4	1,513	370,6	1,432	Medium Sand
SORTING (σ):	578,1	3,538	1,823	3,184	1,671	Poorly Sorted
SKEWNESS (Sk):	1,112	-0,565	0,565	-0,426	0,426	Very Fine Skewed
KURTOSIS (K):	4,207	2,418	2,418	0,488	0,488	Very Platykurtic

Stasiun 7 Timur U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	649,6	360,3	1,473	373,7	1,420	Medium Sand
SORTING (σ):	565,8	3,526	1,818	3,175	1,667	Poorly Sorted
SKEWNESS (Sk):	1,034	-0,663	0,663	-0,435	0,435	Very Fine Skewed
KURTOSIS (K):	4,086	2,623	2,623	0,489	0,489	Very Platykurtic

Stasiun 7 Selatan U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	654,1	303,9	1,719	375,0	1,415	Medium Sand
SORTING (σ):	573,5	4,251	2,088	3,258	1,704	Poorly Sorted
SKEWNESS (Sk):	0,233	-0,386	0,386	-0,462	0,462	Very Fine Skewed
KURTOSIS (K):	1,776	1,901	1,901	0,459	0,459	Very Platykurtic

Stasiun 7 Selatan U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	671,6	304,2	1,717	389,3	1,361	Medium Sand
SORTING (σ):	590,8	4,417	2,143	3,275	1,711	Poorly Sorted
SKEWNESS (Sk):	0,290	-0,412	0,412	-0,539	0,539	Very Fine Skewed
KURTOSIS (K):	2,031	1,903	1,903	0,457	0,457	Very Platykurtic

Stasiun 7 Barat U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	636,1	289,5	1,788	356,8	1,487	Medium Sand
SORTING (σ):	573,2	4,243	2,085	3,263	1,706	Poorly Sorted
SKEWNESS (Sk):	0,274	-0,274	0,274	-0,374	0,374	Very Fine Skewed
KURTOSIS (K):	1,762	1,720	1,720	0,456	0,456	Very Platykurtic

Stasiun 7 Barat U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	617,9	278,6	1,844	290,6	1,783	Medium Sand
SORTING (σ):	566,5	4,246	2,086	3,259	1,705	Poorly Sorted
SKEWNESS (Sk):	0,293	-0,252	0,252	0,035	-0,035	Symmetrical
KURTOSIS (K):	1,676	1,764	1,764	0,457	0,457	Very Platykurtic

Stasiun 8 Utara U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	429,6	273,2	1,872	249,7	2,001	Fine Sand
SORTING (σ):	480,4	2,514	1,330	2,267	1,181	Poorly Sorted
SKEWNESS (Sk):	2,621	0,025	-0,025	0,542	-0,542	Very Coarse Skewed
KURTOSIS (K):	10,59	4,099	4,099	0,823	0,823	Platykurtic

Stasiun 8 Utara U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	426,0	265,4	1,914	247,9	2,012	Fine Sand
SORTING (σ):	484,4	2,610	1,384	2,286	1,193	Poorly Sorted
SKEWNESS (Sk):	2,651	-0,162	0,162	0,536	-0,536	Very Coarse Skewed
KURTOSIS (K):	10,69	4,467	4,467	0,834	0,834	Platykurtic

Stasiun 8 Timur U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	605,2	321,9	1,635	364,2	1,457	Medium Sand
SORTING (σ):	557,2	3,670	1,876	3,168	1,663	Poorly Sorted
SKEWNESS (Sk):	1,166	-0,648	0,648	-0,414	0,414	Very Fine Skewed
KURTOSIS (K):	4,408	2,791	2,791	0,496	0,496	Very Platykurtic

Stasiun 8 Timur U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	641,1	408,2	1,293	452,8	1,143	Medium Sand
SORTING (σ):	550,1	2,824	1,498	2,451	1,293	Poorly Sorted
SKEWNESS (Sk):	1,254	-0,657	0,657	-0,239	0,239	Fine Skewed
KURTOSIS (K):	4,602	3,834	3,834	0,515	0,515	Very Platykurtic

Stasiun 8 Selatan U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	632,3	363,8	1,459	365,1	1,454	Medium Sand
SORTING (σ):	594,0	3,061	1,614	2,681	1,423	Poorly Sorted
SKEWNESS (Sk):	0,992	-0,249	0,249	0,215	-0,215	Coarse Skewed
KURTOSIS (K):	3,398	2,777	2,777	0,574	0,574	Very Platykurtic

Stasiun 8 Selatan U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	635,7	363,7	1,459	366,1	1,450	Medium Sand
SORTING (σ):	597,8	3,102	1,633	2,688	1,427	Poorly Sorted
SKEWNESS (Sk):	0,996	-0,306	0,306	0,207	-0,207	Coarse Skewed
KURTOSIS (K):	3,403	2,921	2,921	0,577	0,577	Very Platykurtic

Stasiun 8 Barat U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	655,1	356,6	1,488	362,7	1,463	Medium Sand
SORTING (σ):	616,9	3,395	1,763	2,742	1,455	Poorly Sorted
SKEWNESS (Sk):	0,937	-0,502	0,502	0,204	-0,204	Coarse Skewed
KURTOSIS (K):	3,257	3,187	3,187	0,585	0,585	Very Platykurtic

Stasiun 8 Barat U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	637,8	349,7	1,516	355,9	1,491	Medium Sand
SORTING (σ):	610,6	3,305	1,724	2,720	1,444	Poorly Sorted
SKEWNESS (Sk):	0,983	-0,409	0,409	0,254	-0,254	Coarse Skewed
KURTOSIS (K):	3,340	3,115	3,115	0,580	0,580	Very Platykurtic

Stasiun 9 Utara U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	427,5	278,1	1,846	286,2	1,805	Medium Sand
SORTING (σ):	462,7	2,481	1,311	2,273	1,185	Poorly Sorted
SKEWNESS (Sk):	2,679	-0,099	0,099	0,116	-0,116	Coarse Skewed
KURTOSIS (K):	11,16	4,256	4,256	0,849	0,849	Platykurtic

Stasiun 9 Utara U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	433,7	275,5	1,860	284,1	1,816	Medium Sand
SORTING (σ):	485,9	2,542	1,346	2,284	1,192	Poorly Sorted
SKEWNESS (Sk):	2,638	-0,114	0,114	0,148	-0,148	Coarse Skewed
KURTOSIS (K):	10,52	4,427	4,427	0,854	0,854	Platykurtic

Stasiun 9 Timur U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	428,7	275,4	1,860	284,5	1,814	Medium Sand
SORTING (σ):	472,9	2,505	1,325	2,292	1,197	Poorly Sorted
SKEWNESS (Sk):	2,668	-0,043	0,043	0,117	-0,117	Coarse Skewed
KURTOSIS (K):	10,93	4,067	4,067	0,856	0,856	Platykurtic

Stasiun 9 Timur U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	432,4	274,3	1,866	284,6	1,813	Medium Sand
SORTING (σ):	481,3	2,559	1,355	2,302	1,203	Poorly Sorted
SKEWNESS (Sk):	2,643	-0,137	0,137	0,116	-0,116	Coarse Skewed
KURTOSIS (K):	10,65	4,271	4,271	0,860	0,860	Platykurtic

Stasiun 9 Selatan U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	415,3	272,4	1,876	285,6	1,808	Medium Sand
SORTING (σ):	433,4	2,530	1,339	2,266	1,180	Poorly Sorted
SKEWNESS (Sk):	2,761	-0,409	0,409	0,087	-0,087	Symmetrical
KURTOSIS (K):	12,28	4,795	4,795	0,842	0,842	Platykurtic

Stasiun 9 Selatan U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	415,5	270,6	1,886	284,0	1,816	Medium Sand
SORTING (σ):	440,7	2,533	1,341	2,276	1,187	Poorly Sorted
SKEWNESS (Sk):	2,754	-0,327	0,327	0,096	-0,096	Symmetrical
KURTOSIS (K):	12,08	4,591	4,591	0,845	0,845	Platykurtic

Stasiun 9 Barat U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	437,6	287,2	1,800	289,8	1,787	Medium Sand
SORTING (σ):	465,1	2,448	1,291	2,274	1,185	Poorly Sorted
SKEWNESS (Sk):	2,636	-0,001	0,001	0,095	-0,095	Symmetrical
KURTOSIS (K):	10,96	3,784	3,784	0,839	0,839	Platykurtic

Stasiun 9 Barat U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	429,3	282,6	1,823	288,2	1,795	Medium Sand
SORTING (σ):	453,8	2,453	1,294	2,270	1,183	Poorly Sorted
SKEWNESS (Sk):	2,683	-0,079	0,079	0,094	-0,094	Symmetrical
KURTOSIS (K):	11,41	4,005	4,005	0,840	0,840	Platykurtic

Stasiun 10 Utara U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	547,5	449,1	1,155	463,3	1,110	Medium Sand
SORTING (σ):	333,8	1,955	0,967	1,749	0,806	Moderately Sorted
SKEWNESS (Sk):	2,157	-1,560	1,560	-0,379	0,379	Very Fine Skewed
KURTOSIS (K):	11,49	10,36	10,36	1,155	1,155	Leptokurtic

Stasiun 10 Utara U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	551,8	448,1	1,158	461,0	1,117	Medium Sand
SORTING (σ):	356,0	1,961	0,972	1,765	0,819	Moderately Sorted
SKEWNESS (Sk):	2,310	-1,222	1,222	-0,379	0,379	Very Fine Skewed
KURTOSIS (K):	11,83	8,494	8,494	1,153	1,153	Leptokurtic

Stasiun 10 Timur U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	546,7	444,9	1,168	460,1	1,120	Medium Sand
SORTING (σ):	349,1	1,954	0,966	1,763	0,818	Moderately Sorted
SKEWNESS (Sk):	2,289	-1,195	1,195	-0,381	0,381	Very Fine Skewed
KURTOSIS (K):	11,92	8,166	8,166	1,152	1,152	Leptokurtic

Stasiun 10 Timur U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	544,7	439,8	1,185	458,9	1,124	Medium Sand
SORTING (σ):	348,3	2,005	1,004	1,771	0,825	Moderately Sorted
SKEWNESS (Sk):	2,233	-1,384	1,384	-0,386	0,386	Very Fine Skewed
KURTOSIS (K):	11,68	8,822	8,822	1,155	1,155	Leptokurtic

Stasiun 10 Selatan U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	528,2	429,6	1,219	457,0	1,130	Medium Sand
SORTING (σ):	367,5	1,982	0,987	1,689	0,756	Moderately Sorted
SKEWNESS (Sk):	3,315	-1,812	1,812	-0,406	0,406	Very Fine Skewed
KURTOSIS (K):	17,45	12,65	12,65	1,109	1,109	Mesokurtic

Stasiun 10 Selatan U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	515,8	418,9	1,255	455,4	1,135	Medium Sand
SORTING (σ):	339,1	2,057	1,040	1,685	0,752	Moderately Sorted
SKEWNESS (Sk):	3,264	-2,301	2,301	-0,408	0,408	Very Fine Skewed
KURTOSIS (K):	18,58	14,25	14,25	1,096	1,096	Mesokurtic

Stasiun 10 Barat U1

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	524,9	419,9	1,252	453,0	1,143	Medium Sand
SORTING (σ):	377,7	2,042	1,030	1,724	0,786	Moderately Sorted
SKEWNESS (Sk):	3,150	-1,747	1,747	-0,368	0,368	Very Fine Skewed
KURTOSIS (K):	16,01	11,88	11,88	1,143	1,143	Leptokurtic

Stasiun 10 Barat U2

	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN ($\bar{x}$):	514,2	413,3	1,275	452,0	1,146	Medium Sand
SORTING (σ):	347,6	2,074	1,052	1,719	0,782	Moderately Sorted
SKEWNESS (Sk):	3,084	-2,044	2,044	-0,387	0,387	Very Fine Skewed
KURTOSIS (K):	17,01	12,69	12,69	1,124	1,124	Leptokurtic

Lampiran 8. Data Pengukuran Sedimen Dasar

Sedimen Dasar										
Titik	Ukuran Butir							Berat Awal	Geometric (mm)	Jenis
	2	1	0,5	0,25	0,125	0,063	<0,063			
1	9,203	22,18	51,069	51,069	11,404	1,565	0,025	100,068	0,64	Pasir kasar
2	13,915	20,383	42,102	15,779	5,182	2,424	0,182	100,014	0,63	Pasir kasar
3	10,235	17,267	35,909	19,124	12,854	3,705	0,078	100,072	0,50	Pasir sedang
4	11,137	13,474	31,035	24,597	14,456	5,002	0,054	100,055	0,48	Pasir sedang
5	3,098	19,52	59,676	14,486	2,804	0,426	0,019	100,063	0,61	Pasir kasar
6	0,518	2,765	25,982	48,262	17,246	6,013	0,068	100,054	0,30	Pasir sedang
7	24,62	8,273	11,981	19,472	28,588	6,754	0,088	100,084	0,47	Pasir sedang
8	9,663	16,62	38,745	20,519	11,471	2,548	0,323	100,022	0,57	Pasir kasar
9	0,433	2,649	12,147	44,650	31,253	7,753	0,290	100,010	0,24	Pasir sedang
10	1,668	8,613	33,468	28,913	17,208	8,849	1,059	100,017	0,32	Pasir sedang

Lampiran 9. Data Angkutan Sedimen (gr)

Stasiun	Angkutan Sedimen (mg/hari)									
	Qu	Qs	Qu-Qs	Qb	Qt	Qb-Qt	Q	Arah Q	ARC TAN (Q°)	Arah
Stasiun 1	7,45	6,33	1,13	6,53	8,86	-2,33	2,59	-0,483	25,781	Timur Laut
Stasiun 2	7,99	5,92	2,07	5,60	8,71	-3,11	3,73	-0,666	33,663	Timur Laut
Stasiun 3	8,95	5,88	3,07	5,49	8,85	-3,36	4,55	-0,915	42,458	Timur Laut
Stasiun 4	9,30	6,55	2,75	3,21	8,31	-5,10	5,79	-0,539	28,324	Timur Laut
Stasiun 5	8,09	5,78	2,32	4,96	8,04	-3,09	3,86	-0,751	36,907	Timur Laut
Stasiun 6	8,75	5,92	2,83	5,93	8,83	-2,90	4,05	-0,977	44,333	Timur Laut
Stasiun 7	8,21	5,73	2,48	2,80	8,10	-5,30	5,85	-0,468	25,079	Timur Laut
Stasiun 8	8,28	5,81	2,47	5,90	8,31	-2,40	3,45	-1,028	52,001	Timur Laut
Stasiun 9	8,83	7,78	1,05	8,01	9,00	-0,98	1,44	-1,070	46,937	Timur Laut
Stasiun 10	8,59	6,91	1,67	7,31	8,80	-1,49	2,24	-1,122	48,29	Timur Laut

Lampiran 10. Data Pengukuran Kedalaman

Garis Penampang							
A		B		C		D	
Jarak (m)	Kedalaman (m)	Jarak (m)	Kedalaman (m)	Jarak (m)	Kedalaman (m)	Jarak (m)	Kedalaman (m)
0	1,4	0	1,8	0	0,9	0	1,5
30	1,4	30	1,8	30	0,9	30	1,7
60	1,4	60	1,8	60	1,4	60	3,8
90	1,6	90	4,3	90	1,6	90	1,8
120	2,1	120	3,2	120	1,7	120	1,9
150	2	150	1,7	150	1,6	150	3,4
180	6,1	180	1,5	180	1,6	180	4,1
210	6	210	1,3	210		210	1,5
Rata -rata	2,75	Rata-rata	2,18	Rata-rata	1,44	Rata-rata	2,46

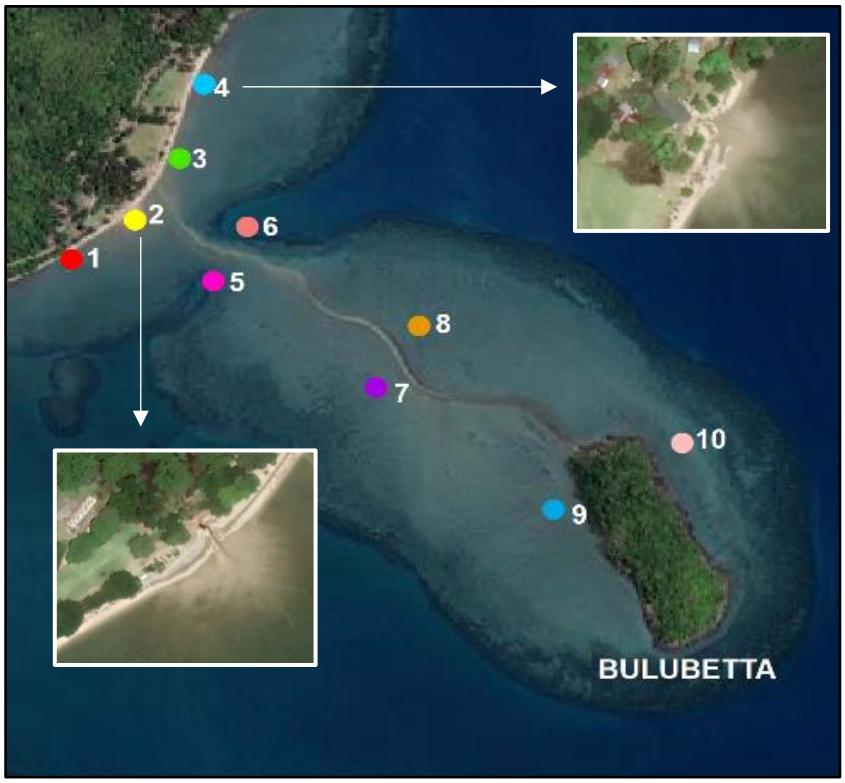
Garis Penampang							
E		F		G		H	
Jarak (m)	Kedalaman (m)	Jarak (m)	Kedalaman (m)	Jarak (m)	Kedalaman (m)	Jarak (m)	Kedalaman (m)
0	4,2	0	4,4	0	5,6	0	6,3
30	3,9	30	4,6	30	5,4	30	6,3
60	3,9	60	1,5	60	2,2	60	6,5
90	1,5	90	1,4	90	1,5	90	5,1
120	1,4	120	1,1	120	1,2	120	1,5
150	1,1	150	0,9	150	1,1	150	1,4
180	1	180	0,9	180	1	180	1,3
210	1	210	0,6	210	1	210	1,3
240	1,1	240	1,1	240	1,1	240	1,5
270	1,1	270	1,2	270	1,2	270	1,4
300	1,3	300	1,3	300	1,5	300	7,5
330	1,4	330	1,6	330	1,5	330	7,9
360	7,1	360	6,8	360	7,6	360	9,3
390	7,3	390	8,4	390	8,1	390	9,9
420	7,6	420	8,5	420	8,4	420	9,7
450	7,5	450	8,4	450	8,6	450	9,7
Rata-rata	3,28	Rata-rata	3,29	Rata-rata	3,56	Rata-rata	5,41

Lampiran 11. Data Sekunder Angin dari BMKG

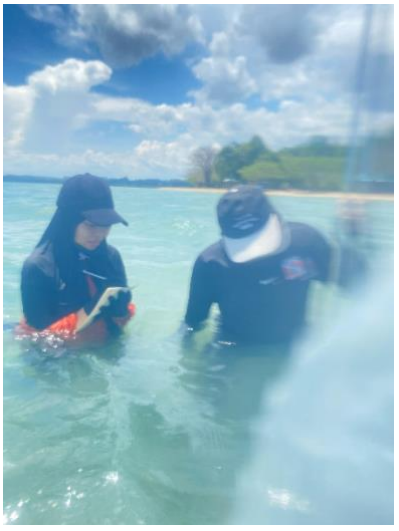
No	Sep_2013 (knot)	Sep_2016 (knot)	Apr_2018 (knot)	Nov_2022 (knot)
1	10,7	7	1,5	3
2	9,5	4,3	4,2	2,1
3	10,5	6,3	4	3,3
4	11,6	6,3	0,5	5,8
5	10	7,4	3,6	4,7
6	8,3	8,4	5,8	5,5
7	9	8,6	2	2
8	9,2	8,8	4,8	6,4
9	6,4	8	8,1	4,8
10	7,6	7,2	6,2	2,5
11	8,1	6,5	4,7	4,4
12	7	6,3	5,3	3,8
13	5,9	3,7	8,2	2,4
14	6,1	3,7	6,1	2,1
15	7,3	2,7	6,6	3,9
16	6,6	4,2	7,3	1,6
17	5,2	5,8	5	1,1
18	5	4,6	4,7	7,3
19	6,7	4,6	6,3	2
20	5,7	5,1	4	2,2
21	6,2	4,1	6,6	3,3

22	6,8	2,1	6,8	3,5
23	8,2	5,4	9,7	0,5
24	7,2	2,9	10,8	3
25	6,5	3,3	6,2	5,5
26	6,7	4,5	6,2	2,4
27	6,3	4,9	7,8	1,3
28	7	4,4	8	1,4
29	7,1	3,5	7,2	3,4
30	6,1	1,6	8,4	2,7

Lampiran 12. Muara Sungai di Pantai Tete Tonra



Lampiran 13. Dokumentasi di Lapangan



Lampiran 14. Dokumentasi DiLaboratorium