

DATA PERTUMBUHAN MUTLAK DIAMETER 10 JENIS KARANG PADA MEDIA RAK TRANPLANTASI BULAN MARET 2023

	March -June 2021	July - Sept 2021	Octo-Dece- 2021	January- March-2022	Apr-june- 2022	July-Sept- 2022
<i>Acropora sarmentosa</i>						
Poka-Rumahtiga	20.7	27.3	34.3	45	49.7	54.7
Batucapeu-Amahusu	8.3	23.6	40.6	50.8	54.8	67
Allang	8.6	16	30	48.3	53.3	56
<i>Acropora humilis</i>						
Poka-Rumahtiga	5.7	11.1	23.3	31.2	44.3	57.5
Batucapeu-Amahusu	5.8	9	16.3	27.6	37.3	50
Allang	8.3	20.7	42.3	55.2	57.5	64.9
<i>Acropora millepora</i>						
Poka-Rumahtiga	4.6	6	15.3	25.4	35	44.3
Batucapeu-Amahusu	10	11.4	22.9	32	42.1	62
Allang	6.6	8	24.6	40	56.1	70.3
<i>Porites Lutea</i>						
Poka-Rumahtiga	2.3	5.6	11.6	17.4	24	30.3
Batucapeu-Amahusu	4.7	9.7	19.3	26.2	35	41.7
Allang	5.2	10.3	22.3	24.6	26	31
<i>Porites cylindrica</i>						
Poka-Rumahtiga	4	8.6	17.6	25	33	37.3
Batucapeu-Amahusu	6.1	16.5	26.2	37.3	48.3	62.3
Allang	3.5	10	26.3	31.4	39.4	48.4
<i>Pocillopora damicornis</i>						
Poka-Rumahtiga	7.3	11	19	33.3	51.3	72.3
Batucapeu-Amahusu	8.7	13.8	23.3	43.8	55.8	73
Allang	11	15	24	37.6	57.6	66.6
<i>Pocillopora verrucosa</i>						
Poka-Rumahtiga	23.3	40	60	74.3	92.6	114.6
Batucapeu-Amahusu	22.3	44	66.7	90	128	143.2
Allang	5.7	11.3	27.3	42.3	60	77.3

	March -June 2021	July - Sept 2021	Octo-Dece- 2021	January- March-2022	Apr-june- 2022	July-Sept- 2022
Stylophora pistillata						
Poka-Rumahtiga	5.4	11.7	25.7	34.7	44.7	55.4
Batucapeu-Amahusu	14.6	27.2	37	43.6	50.3	62.6
Allang	7.5	14.6	33.6	56	62.5	78

	March -June 2021	July - Sept 2021	Octo-Dece- 2021	January- March-2022	Apr-june- 2022	July-Sept- 2022
Echinopora lamellosa						
Poka-Rumahtiga	4.4	6.7	9.3	15.4	18.1	23.6
Batucapeu-Amahusu	3	8.7	14	15.4	21.7	25.7
Allang	7.1	9.7	15.7	19	24.7	27.3

	March -June 2021	July - Sept 2021	Octo-Dece- 2021	January- March-2022	Apr-june- 2022	July-Sept- 2022
Merulina ampliata						
Poka-Rumahtiga	7.4	9.6	12	15.7	19.5	23
Batucapeu-Amahusu	3.7	6.8	10	15.2	19.6	26.3
Allang	6	12.4	16.4	20.4	29.4	35.3

Rumus Pertumbuhan Mutlak Tinggi : $\beta l = Lt - Lo$ dimana :

BL = Pertumbuhan mutlak tinggi (mm)

Lt = Rata rata tinggi atau Diameter setelah bulan ke t

Lo = Rata rata tinggi atau diameter pada waktu penguku

Laju pertumbuhan tinggi atau diamter karang ;
P =

$\frac{Lt - Lo}{t}$

Dimana

P ; Laju pertumbuhan karang mm/bln

Lt : Rata rata tinggi atau Diameter pada pengukuran bu

Lo ; Rata rata tinggi atau diameter pada pengukuran aw

Catatan

Pertumbuhan Mutlak Diameter peningkatan diameter atau lebar karang setelah transplantasi. Karang-karang y dan berhasil akan mengalami pertumbuhan mutlak dalam diameter. Pertumbuhan diameter ini biasanya diuku satuan panjang seperti sentimeter atau milimeter.

Pertumbuhan Mutlak Tinggi: peningkatan tinggi atau ketinggian karang setelah transplantasi. Seperti pertumbu diameter, pertumbuhan tinggi juga diukur dalam satuan panjang seperti sentimeter atau milimeter.

Laju pertumbuhan diameter dan tinggi karang transplantasi merujuk pada tingkat pertumbuhan atau peningkatan fisik karang-karang setelah koloni karang dipindahkan atau ditanam kembali di lokasi baru. Ini adalah ukuran k dari seberapa cepat karang-karang tersebut tumbuh setelah transplantasi. Laju pertumbuhan ini biasanya diukur satuan waktu tertentu, seperti sentimeter per tahun atau milimeter per bulan.

AGUST 2021 SAMPAI DENGAN BULAN

DATA PERTUMBUHAN MUTLAK TINGGI 10 JENIS

Octo -Dece - 2022	Janury- March-2023
61	67
90	107.6
77.3	87.5

	March -June- 2021	July -Sept - 2021
Acropora sarmentosa		
Poka-Rumahtiga	3.7	5
Batucapeu-Amahusu	4.15	13.73
Allang	10.1	21.8

Octo -Dece - 2022	Janury- March-2023
62.9	71.7
68.6	79
78.5	102.7

	March -June- 2021	July -Sept - 2021
Acropora humilis		
Poka-Rumahtiga	4	10
Batucapeu-Amahusu	3.5	14.8
Allang	23.2	30.12

Octo -Dece - 2022	Janury- March-2023
62	83.1
86.9	109.6
89.6	99.7

	March -June- 2021	July -Sept - 2021
Acropora millepora		
Poka-Rumahtiga	4.7	13.7
Batucapeu-Amahusu	4.6	15
Allang	7	10.23

Octo -Dece - 2022	Janury- March-2023
40	44.3
42.7	47.3
37	45

	March -June- 2021	July -Sept - 2021
Porites Lutea		
Poka-Rumahtiga	4.7	8.6
Batucapeu-Amahusu	3.1	4.2
Allang	7	9.7

Octo -Dece - 2022	Janury- March-2023
59.3	66.6
79.7	96.8
67.9	78

	March -June- 2021	July -Sept - 2021
Porites cylindrica		
Poka-Rumahtiga	5	10
Batucapeu-Amahusu	10.4	14.7
Allang	33.2	40.03

Octo -Dece - 2022	Janury- March-2023
99	119.4
106	124.5
97	124

	March -June- 2021	July -Sept - 2021
Pocillopora damicornis		
Poka-Rumahtiga	2.7	5.1
Batucapeu-Amahusu	5.4	6.4
Allang	3.6	15.3

Octo -Dece - 2022	Janury- March-2023
130.6	143
151.1	193.3
98.7	120.7

	March -June- 2021	July -Sept - 2021
Pocillopora verrucosa		
Poka-Rumahtiga	4.6	7.4
Batucapeu-Amahusu	6.9	8.3
Allang	5	9.6

Octo -Dece - 2022	Janury- March-2023	Stylophora pistillata	March -June- 2021	July -Sept - 2021
69.6	80.4	Poka-Rumahtiga	4.3	8.3
75.6	92.6	Batucapeu-Amahusu	3.7	10.3
92.5	102.9	Allang	1.1	10.2

Octo -Dece - 2022	Janury- March-2023	Echinopora lamellosa	March -June- 2021	July -Sept - 2021
27.3	31.7	Poka-Rumahtiga	1.7	4
31	33	Batucapeu-Amahusu	6	7.3
31.9	36.8	Allang	4.6	7.6

Octo -Dece - 2022	Janury- March-2023	Merulina ampliata	March -June- 2021	July -Sept - 2021
29	38.6	Poka-Rumahtiga	1.1	2.5
36.8	43.8	Batucapeu-Amahusu	4.3	5.6
38.6	46.5	Allang	2	3.4

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; KARANG PADA MEDIA RAK TRANPLANTASI BULAN MARET 2021 SAMPAI DENGAN BULAN MARET 2023

Octo-Dece- 2021	January- March-2022	Apr-june- 2022	July-Sept- 2022	Octo -Dece -2022	Janury-March- 2023
11	18.4	23.7	29	36	41
21.05	29.75	41.85	50	64.35	70.04
31.7	37.1	42.6	47.12	61.34	83.2
22	26,4	32	38	53.7	55.2
18.5	28.2	39.5	52.2	59	70.8
38.12	41.2	52.8	34.7	42.7	57.9
21.2	29.3	31.3	37.3	41.3	47.7
24.3	32.3	43.3	52	66.01	79
26.9	32.34	40.13	47.1	55.34	73.78
11.6	15.1	17.1	20	25.1	36.1
12.2	15.4	17.8	23.1	34.2	43.1
22.3	27.7	29.8	36.7	47.7	50.7
25	33.7	36.7	39.4	47.7	59.7
25.3	27.9	36	53.4	75.6	85.4
44.5	63.5	73.2	84.4	96.06	107.4
12	15.3	20	32.2	42.3	48.9
14.4	19.2	23.4	29	33.4	36.4
27.3	32.3	36.6	39.3	47.6	55.3
17	20.4	25.4	29	39.3	45.4
15.5	19	28.2	36	42.4	46
21	25.6	29.3	35.3	40	45.3

Octo-Dece- 2021	January- March-2022	Apr-june- 2022	July-Sept- 2022	Octo -Dece -2022	Janury-March- 2023
15.7	18.7	25.3	36.3	49.8	53.2
25.7	32.3	42.3	46.1	59.5	63.3
17	35	38.1	50	62.2	72.2

Octo-Dece- 2021	January- March-2022	Apr-june- 2022	July-Sept- 2022	Octo -Dece -2022	Janury-March- 2023
17.4	22.4	25.7	32.4	35.2	39.1
12.7	16.7	22.7	30.2	47	59.7
14.2	17.6	21.6	25.3	34.2	43.3

Octo-Dece- 2021	January- March-2022	Apr-june- 2022	July-Sept- 2022	Octo -Dece -2022	Janury-March- 2023
4.6	7.8	8.5	10.4	13.7	13.5
9.7	11	13.6	16.3	19.3	21
6.5	8.5	9.2	11.3	12.3	19.6

DATA LAJU PERTUMBUHAN DIAMETER 10 JENIS KARANG PADA MEDIA RAK TRANPLANTASI
DENGAN BULAN MARET 2023

Acropora sarmentosa	March	-Jur	July	- Sept	Octo-Dece	January-M	Apr-june-2	July-Sept-2
Poka-Rumahtiga	6.9		9.1		11.43	15	16.57	18.23
Batucapeu-Amahusu	2.8		4.5		8.2	16.93	18.27	22.33
Allang	2.9		5.33		10	16.1	17.77	18.66

Acropora humilis	March	-Jur	July	- Sept	Octo-Dece	January-M	Apr-june-2	July-Sept-2
Poka-Rumahtiga	1.9		3.7		7.77	10.4	14.77	19.17
Batucapeu-Amahusu	1.9		3.1		5.43	9.2	12.43	16.67
Allang	2.8		6.9		14.1	18.4	19.17	21.63

Acropora millepora	March	-Jur	July	- Sept	Octo-Dece	January-M	Apr-june-2	July-Sept-2
Poka-Rumahtiga	1.53		2		5.1	8.47	11.67	14.77
Batucapeu-Amahusu	3.3		3.8		7.63	10.67	14.03	20.67
Allang	2.2		2.67		8.2	13.33	18.7	23.43

Porites Lutea	March	-Jur	July	- Sept	Octo-Dece	January-M	Apr-june-2	July-Sept-2
Poka-Rumahtiga	0.77		1.87		3.87	5.8	8	10.1
Batucapeu-Amahusu	1.6		3.2		6.43	8.73	11.67	13.9
Allang	1.7		3.43		7.43	8.2	8.67	10.53

Porites cylindrica	March	-Jur	July	- Sept	Octo-Dece	January-M	Apr-june-2	July-Sept-2
Poka-Rumahtiga	1.33		2.87		5.87	8.33	11	12.43
Batucapeu-Amahusu	2		5.5		8.73	12.43	16.1	20.77
Allang	1.2		3.33		8.77	8.97	13.33	16.13

Pocillopora damicornis	March	-Jur	July	- Sept	Octo-Dece	January-M	Apr-june-2	July-Sept-2
Poka-Rumahtiga	2.43		3.67		6.47	11.1	17.1	24.1
Batucapeu-Amahusu	2.9		4.6		7.77	14.6	18.6	24.37
Allang	3.7		5		8	12.53	19.2	22.2

Pocillopora verrucosa	March	-Jur	July	- Sept	Octo-Dece	January-M	Apr-june-2	July-Sept-2
Poka-Rumahtiga	7.77		13.33		20	24.77	30.87	38.2
Batucapeu-Amahusu	7		13.7		21.83	31.63	38.93	47.33
Allang	1.9		3.77		9.1	14.1	20	25.76

Stylophora pistillata	March	-Jur	July	- Sept	Octo-Dece	January-M	Apr-june-2	July-Sept-2
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Poka-Rumahtiga	1.8	3.9	8.57	11.57	14.9	18.47
Batucapeu-Amahusu	4.9	9.1	12.33	14.2	16.77	20.87
Allang	2.5	4.87	11.2	18.67	20.83	26

Echinopora lamellosa	March -Jur	July - Sept	Octo-Dece	January-M	Apr-june-2	July-Sept-2
Poka-Rumahtiga	1.47	2.23	3.1	5.13	6.03	7.87
Batucapeu-Amahusu	1	2.9	4.67	5.13	7.23	8.57
Allang	2.4	3.23	5.23	6.33	8.23	9.1

Merulina ampliata	March -June 2021	Octo-Dece	January-M	Apr-june-2	July-Sept-2	
Poka-Rumahtiga	2.47	3.2	4	5.23	6.5	7.67
Batucapeu-Amahusu	0.8	1.4	2.43	4.17	5.63	7.87
Allang	2	4.13	5.47	6.8	9.8	11.76

Laju pertumbuhan tinggi atau diameter karang ; $P = \frac{Lt - Lo}{t}$
 Dimana
 P ; Laju pertumbuhan karang mm/bln
 Lt : Rata rata tinggi atau Diameter pada peng
 Lo ; Rata rata tinggi atau diameter pada peng

Laju pertumbuhan tinggi atau diameter karang ; $P = \frac{Lt - Lo}{t}$
 Dimana
 P ; Laju pertumbuhan karang mm/bln
 Lt : Rata rata tinggi atau Diameter pada peng
 Lo ; Rata rata tinggi atau diameter pada peng

Pertumbuhan Mutlak Diameter peningkatan diameter atau lebar karang setelah transplantasi. berhasil akan mengalami pertumbuhan mutlak dalam diameter. Pertumbuhan diameter ini bisa panjang seperti sentimeter atau milimeter.

Pertumbuhan Mutlak Tinggi: peningkatan tinggi atau ketinggian karang setelah transplantasi. S pertumbuhan tinggi juga diukur dalam satuan panjang seperti sentimeter atau milimeter.

Laju pertumbuhan diameter dan tinggi karang transplantasi merujuk pada tingkat pertumbuhan karang-karang setelah koloni karang dipindahkan atau ditanam kembali di lokasi baru. Ini adalah seberapa cepat karang-karang tersebut tumbuh setelah transplantasi. Laju pertumbuhan ini bisa waktu tertentu, seperti sentimeter per tahun atau milimeter per bulan.

Perbedaan Pertumbuhan Mutlak dan Laju Pertumbuhan

Pertumbuhan Mutlak:

1. Pertumbuhan mutlak mengacu pada peningkatan ukuran fisik karang setelah transplantasi ta tertentu.
2. Pertumbuhan Mutlak adalah pengukuran kuantitatif dari peningkatan diameter atau tinggi l seperti sentimeter atau milimeter.
3. Pertumbuhan mutlak memberikan gambaran tentang sejauh mana karang telah tumbuh seji aktual karang saat dilihat.

Laju Pertumbuhan

Laju pertumbuhan diameter dan tinggi karang transplantasi mengacu pada kecepatan pertumb selama periode waktu tertentu setelah transplantasi, seperti per tahun atau per bulan

Laju Pertumbuhan adalah pengukuran seberapa cepat karang tumbuh dalam satuan panjang p

Laju pertumbuhan adalah parameter yang dinamis yang memberikan informasi tentang sebera karang-karang tersebut berkembang dalam lingkungan baru.

Jadi, perbedaannya adalah bahwa pertumbuhan mutlak adalah pengukuran ukuran aktual kara sementara laju pertumbuhan diameter dan tinggi adalah pengukuran tingkat pertumbuhan kar tertentu setelah transplantasi.

BULAN MARET 2021 SAMPAI

DATA LAJU PERTUMBUHAN TINGGI 10 JENIS KARAN

Octo -Dece Janury-March-2023			March -June- 2021	July -Sept - 2021
20.33	22.33	Acropora sarmentosa		
30	35.87	Poka-Rumahtiga	1.23	1.67
25.76	19.17	Batucapeu-Amahusu	1.38	4.58
		Allang	3.37	7.27
Octo -Dece Janury-March-2023			March -June- 2021	July -Sept - 2021
20.97	23.9	Acropora humilis		
22.87	26.33	Poka-Rumahtiga	1.33	3.33
26.16	34.23	Batucapeu-Amahusu	1.17	4.93
		Allang	7.73	10.04
Octo -Dece Janury-March-2023			March -June- 2021	July -Sept - 2021
20.67	27.7	Acropora millepora		
28.97	36.53	Poka-Rumahtiga	1.567	4.567
29.86	33.23	Batucapeu-Amahusu	1.530	5.000
		Allang	3.000	7.410
Octo -Dece Janury-March-2023			March -June- 2021	July -Sept - 2021
13.33	14.77	Porites Lutea		
14.23	15.77	Poka-Rumahtiga	1.57	2.87
12.33	15	Batucapeu-Amahusu	1.03	1.4
		Allang	2.23	3.23
Octo -Dece Janury-March-2023			March -June- 2021	July -Sept - 2021
19.72	22.2	Porites cylindrica		
26.57	32.27	Poka-Rumahtiga	1.67	3.33
22.63	26	Batucapeu-Amahusu	3.47	4.90
		Allang	11.24	13.34
Octo -Dece Janury-March-2023			March -June- 2021	July -Sept - 2021
33	39.8	Pocillopora damicornis		
35.37	41.5	Poka-Rumahtiga	0.90	1.70
32.63	41.47	Batucapeu-Amahusu	1.80	2.13
		Allang	1.20	5.10
Octo -Dece Janury-March-2023			March -June- 2021	July -Sept - 2021
43.53	47.67	Pocillopora verrucosa		
56.63	67.37	Poka-Rumahtiga	1.53	2.47
32.9	40.23	Batucapeu-Amahusu	2.13	2.27
		Allang	1.53	2.53
Octo -Dece Janury-March-2023			March -June- 2021	July -Sept - 2021
		Stylophora pistillata		

23.2	26.8
25.2	30.87
30.83	34.3

Poka-Rumahtiga	1.43	2.77
Batucapeu-Amahusu	1.23	3.43
Allang	0.37	3.33

Octo -Dece	Janury-March-2023
9.1	10.57
10.33	11
10.63	12.77

Echinopora lamellosa	March -June- 2021	July -Sept - 2021
Poka-Rumahtiga	0.57	1.33
Batucapeu-Amahusu	2.00	2.43
Allang	1.53	2.53

Octo -Dece	-2022
9.67	12.87
11.37	13.7
12.86	15.5

Merulina ampliata	March -June- 2021	July -Sept - 2021
Poka-Rumahtiga	0.33	0.60
Batucapeu-Amahusu	1.43	1.50
Allang	0.67	1.13

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G PADA MEDIA RAK TRANPLANTASI BULAN MARET 20211 SAMPAI DENGAN BULAN MARET 2023

Octo-Dece- 2021	January- March-2022	Apr-june-2022	July-Sept-2022	Octo -Dece - 2022	Janury-March- 2023
3.67	6.13	7.90	9.67	12.00	13.67
7.02	9.92	13.95	16.67	21.45	26.01
10.57	12.37	14.20	15.71	20.45	27.71

Octo-Dece- 2021	January- March-2022	Apr-june-2022	July-Sept-2022	Octo -Dece - 2022	Janury-March- 2023
7.33	8.80	10.67	12.67	17.90	18.40
6.17	9.40	13.17	17.40	19.67	23.60
12.71	13.73	17.60	11.57	14.23	19.30

Octo-Dece- 2021	January- March-2022	Apr-june-2022	July-Sept-2022	Octo -Dece - 2022	Janury-March- 2023
7.100	9.767	10.433	12.433	13.767	15.900
8.100	10.770	14.430	17.330	22.000	26.330
12.967	14.780	17.377	19.700	22.447	28.593

Octo-Dece- 2021	January- March-2022	Apr-june-2022	July-Sept-2022	Octo -Dece - 2022	Janury-March- 2023
3.87	5.03	5.7	6.67	8.37	12.03
4.07	5.13	5.93	7.7	11.4	14.37
7.43	9.23	9.23	12.23	15.9	16.9

Octo-Dece- 2021	January- March-2022	Apr-june-2022	July-Sept-2022	Octo -Dece - 2022	Janury-March- 2023
8.33	11.23	12.23	13.13	15.90	19.90
8.43	9.30	12.00	17.80	25.20	28.47
14.83	21.17	24.40	28.13	31.69	35.80

Octo-Dece- 2021	January- March-2022	Apr-june-2022	July-Sept-2022	Octo -Dece - 2022	Janury-March- 2023
4.00	5.10	6.97	10.90	14.10	16.30
4.80	6.40	7.47	9.67	15.37	18.80
9.10	10.77	12.20	13.10	15.87	18.43

Octo-Dece- 2021	January- March-2022	Apr-june-2022	July-Sept-2022	Octo -Dece - 2022	Janury-March- 2023
5.67	6.80	8.47	9.67	13.10	15.13
5.17	6.33	9.40	12.00	14.13	15.33
4.67	5.87	7.20	8.33	11.33	14.33

Octo-Dece- 2021	January- March-2022	Apr-june-2022	July-Sept-2022	Octo -Dece - 2022	Janury-March- 2023
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5.23	6.23	8.43	12.10	16.60	17.67
8.57	10.77	14.10	15.33	19.83	20.77
5.67	11.67	12.70	16.67	17.20	20.67

Octo-Dece- 2021	January- March-2022	Apr-june-2022	July-Sept-2022	Octo -Dece - 2022	Janury-March- 2023
5.80	7.47	8.57	10.80	11.67	13.03
4.23	5.57	7.57	12.90	15.67	19.90
4.67	5.87	7.20	8.33	11.33	14.33

Octo-Dece- 2021	January- March-2022	Apr-june-2022	July-Sept-2022	Octo -Dece - 2022	Janury-March- 2023
0.67	0.70	0.67	0.87	0.97	2.90
1.57	1.80	1.97	2.17	3.23	3.43
2.17	2.83	3.07	3.77	4.10	6.53

Success rate and growth rate of transplanted corals at Poka - Ruma

No	Species -Family	colony form	Number of coral nubbins colonies at the beginning at	Number of coral nubbins colonies	Survival rate (%)
I	Acroporidae				
1	Acropora sarmentosa	Acropora Coral Branching (ACB)	4	3	75
2	Acropora millepora	Acropora Coral Branching (ACB)	5	3	80
3	Acropora humilis	Acropora Submasiv (ACS)	4	3	75
II	Poritidae				
4	Porites lutea	Coral masive (CM)	4	4	100
5	Porites cylindrica	Coral branching (CB)	4	3	100
III	Pocilloporidae				
6	Pocillopora damicornis	Coral submasive (CM)	4	4	100
7	Pocillopora verrucosa	Coral submasive (CM)	4	4	100
8	Stylophora pistillata	Coral branching (CB)	4	3	75
IV	Favidae				
9	Echinopora lamellosa	Coral foliosa (CF)	4	3	75
V	Merulinidae				
10	Merulina ampliata	Coral foliosa (CF)	5	3	60
	Averaga of Survival rate		42	33	84

Success rate and growth rate of transplanted corals at Batu Capeu -Amal

No	Species -Family	colony form	Number of coral nubbins colonies at the beginning at transplantation	Number of coral nubbins colonies at (t)	Survival rate (%)
I	Acroporidae				
1	Acropora sarmentosa	Acropora Coral Branching (ACB)	4	3	75
2	Acropora millepora	Acropora Coral Branching (ACB)	4	3	75
3	Acropora humilis	Acropora Submasiv (ACS)	3	3	100
II	Poritidae				
4	Porites lutea	Coral masive (CM)	3	3	100
5	Porites cylindrica	Coral branching (CB)	4	4	100
III	Pocilloporidae				
6	Pocillopora damicornis	Coral submasive (CM)	4	4	100
7	Pocillopora verrucosa	Coral submasive (CM)	4	4	100
8	Stylophora pistillata	Coral branching (CB)	4	3	75
IV	Favidae				
9	Echinopora lamellosa	Coral foliosa (CF)	4	3	75

V	Merulinidae				
10	Merulina ampliata	Coral foliosa (CF)	4	3	60
	Averaga of Survival rate		38	33	86
			12		

Success rate and growth rate of transplanted corals at allang Vila

No	Species -Family	colony form	Number of coral nubbins colonies at the beginning at transplantation (t)	Number of coral nubbins colonies at (t)	Survival rate (%)
I	Acroporidae				
1	Acropora sarmentosa	Acropora Coral Branching (ACB)	5	5	100
2	Acropora millepora	Acropora Coral Branching (ACB)	4	3	75
3	Acropora humilis	Acropora Submasiv (ACS)	5	4	80
II	Poritidae				
4	Porites lutea	Coral masive (CM)	3	3	100
5	Porites cylindrica	Coral branching (CB)	3	3	100
III	Pocilloporidae				
6	Pocillopora damicornis	Coral submasive (CM)	5	4	80
7	Pocillopora verrucosa	Coral submasive (CM)	4	4	100
8	Stylophora pistillata	Coral branching (CB)	4	4	100
IV	Favidae				
9	Echinopora lamellosa	Coral foliosa (CF)	4	3	75
V	Merulinidae				
10	Merulina ampliata	Coral foliosa (CF)	5	3	60
	Averaga of Survival rate		42	36	87

htiga in Ambon Bay

Number of coral colonies to measure	Absolute growth of corals hight and diameter (mm)		Growth rate of coral hight and diameter (mm)	
	Leight	Hight	Leight	Hight
3	115.2	66	7.68	4.4
3	89.7	60.2	5.98	4.01
3	78.3	47.7	5.22	3.18
3	41.3	54.09	2.75	3.61
3	66.6	64.79	4.44	4.32
3	101.59	74.42	7.44	4.96
3	102.48	73.7	7.5	4.91
3	67.4	46.7	4.49	3.11
3	53.7	47.7	3.58	3.11
3	55.6	52.1	3.71	3.47

rusu Vilage in Ambon Bay

Number of coral colonies to measure success rate	Absolute growth of corals hight and diameter (mm)		Growth rate of coral hight and diameter (mm)	
	Leight	Hight	Leight	Hight
3	117.1	78.4	7.81	5.2
3	142.4	79	9.49	5.27
3	89	69.8	5.93	4.65
3	49.47	58	3.3	1.73
3	88.1	81.49	5.87	5.43
3	95.04	37.2	6.34	2.48
3	46.97	43	3.13	2.87
3	63.2	87.9	4.21	5.86
3	33	59.1	2.2	3.94

3	34.3	34.23	2.29	2.28
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age in Ambon Bay

Number of coral colonies to measure success rate	Absolute growth of corals hight and diameter (mm)		Growth rate of coral hight and diameter (mm)	
	Leight	Hight	Leight	Hight
3	117.5	98.02	7.83	6.53
3	88.3	87.9	5.89	5.86
3	82.41	65.78	5.49	4.39
3	49.47	58	3.3	3.87
3	81	97.1	5.4	6.47
3	84.61	68.3	5.64	4.55
3	69.7	47.3	4.65	4.33
3	112	65	7.47	4.07
3	31	36	2.07	2.4
3	18.7	44.19	1.25	2.95

MEAN CTD DATA JMP RUMAH TIGA 2021-2022

Mounth		Depth	Temp	Salinity	Density	SigmaT	Chl	Turbidity
2021 Mar	M	6.25	29.36996	33.78138	1021.05	21.05035	0.66875	0.55875
2021 Apr	A	6.25	28.69292	33.56308	1021.11	21.11269	0.71667	0.66000
2021 May	M	4.25	28.12450	33.26206	1021.07	21.07377	0.78375	0.91187
2021 Jun	J	5.25	27.81025	33.10300	1021.06	21.05658	0.91500	0.76800
2021 Jul	J	6.25	27.12375	32.85529	1021.09	21.09096	0.98424	0.74125
2021 Aug	A	6.25	27.07383	33.13946	1021.32	21.32023	0.77393	1.42125
2021 Sep	S	6.25	27.57642	32.29154	1020.52	20.52324	0.69534	3.43333
2021 Oct	O	6.25	27.72071	32.88081	1020.92	20.91882	0.64208	3.02473
2021 Nov	N	6.25	28.39011	33.50856	1021.17	21.17168	0.60083	0.43833
2021 Dec	D	6.25	28.14736	33.68683	1021.38	21.38498	0.50333	0.49208
2022 Jan	J	6.25	29.11569	33.65688	1021.04	21.04234	0.38000	0.35042
2022 Feb	F	6.25	29.19067	33.68350	1021.04	21.03720	0.38375	0.31250

MEAN CTD DATA BATUCAPEU 2021-2022

Mounth		Depth	Temp	Salinity	Density	SigmaT	Chl	Turbidity
2021 Mar	M	6.25	29.48054	33.71433	1020.96	20.96288	0.75000	0.44625
2021 Apr	A	6.25	28.87750	33.59300	1021.07	21.07388	1.01500	0.55208
2021 May	M	6.25	28.35254	32.45367	1020.39	20.39317	0.95458	0.95167
2021 Jun	J	6.25	27.69446	33.39442	1021.31	21.31272	0.61417	0.47500
2021 Jul	J	6.25	27.51350	33.43604	1021.40	21.40232	1.84708	0.58177
2021 Aug	A	6.25	27.18892	33.37396	1021.46	21.45970	1.09375	0.63245
2021 Sep	S	6.25	27.91066	32.74050	1020.75	20.75213	0.84558	1.39609
2021 Oct	O	6.25	28.14513	33.12651	1020.97	20.96537	0.56756	1.54931
2021 Nov	N	6.25	29.18346	33.71979	1021.07	21.06681	0.37375	0.50792
2021 Dec	D	6.25	28.73850	33.84692	1021.31	21.31042	0.61167	0.78042
2022 Jan	J	6.25	29.52925	33.95250	1021.12	21.12487	0.31042	0.51042
2022 Feb	F	6.25	29.34796	33.83725	1021.10	21.09962	0.69792	0.56625

MEAN CTD DATA ALLANG 2021-2022

Mounth		Depth	Temp	Salinity	Density	SigmaT	Chl	Turbidity
2021 Mar	M	6.25	29.13938	33.78746	1021.13	21.13229	0.18208	0.34500
2021 Apr	A	6.25	28.76388	33.62788	1021.14	21.13776	0.35417	0.79125
2021 May	M	6.25	28.20950	33.54158	1021.26	21.25568	0.80000	1.39750
2021 Jun	J	6.25	27.71504	33.45542	1021.35	21.35186	0.54375	1.29333
2021 Jul	J	6.25	27.47688	33.32854	1021.33	21.33338	1.21583	2.32333
2021 Aug	A	6.25	27.94229	33.28454	1021.15	21.14996	1.13208	2.17542
2021 Sep	S	6.25	28.64258	33.50029	1021.08	21.08226	0.75458	1.82147
2021 Oct	O	6.25	28.64258	33.58595	1021.15	21.14649	0.63535	1.66824
2021 Nov	N	6.25	30.03404	33.94833	1020.95	20.95025	0.28583	0.53083
2021 Dec	D	6.25	29.51996	33.80233	1021.02	21.01550	0.64417	2.04542
2022 Jan	J	6.25	29.76479	33.98275	1021.07	21.06775	0.27039	1.87958
2022 Feb	F	6.25	29.28238	34.05250	1021.28	21.28299	0.22750	0.88042

MEAN CTD DATA JMP RUMAH TIGA 2022-2023

Mounth		Depth	Temp	Salinity	Density	SigmaT	Chl
2022 Mar	M	6.25	28.95517	33.66382	1021.10	21.10112	0.668981
2022 Apr	A	6.25	29.34555	33.69047	1020.99	20.99045	0.716764
2022 May	M	4.25	29.60129	33.62888	1020.86	20.85809	0.783661
2022 Jun	J	5.25	29.17078	33.41778	1020.84	20.84476	0.914544
2022 Jul	J	6.25	26.58372	32.76521	1021.19	21.1939	0.771051
2022 Aug	A	6.25	26.97361	32.95013	1021.21	21.20985	0.838324
2022 Sep	S	6.25	28.48994	33.01897	1020.77	20.77176	0.750448
2022 Oct	O	6.25	29.76357	33.3786	1020.62	20.61574	0.719574
2022 Nov	N	6.25	29.66102	33.33793	1020.62	20.62002	0.701595
2022 Dec	D	6.25	29.78533	33.29691	1020.99	20.99236	0.581211
2023 Jan	J	6.25	29.51823	33.44131	1021.03	21.02704	0.527689
2023 Feb	F	6.25	29.56264	33.56009	1021.07	21.06764	0.438806

MEAN CTD DATA BATUCAPEU 2022-2023

Mounth		Depth	Temp	Salinity	Density	SigmaT	Chl
2022 Mar	M	6.25	29.24169	33.74023	1021.06	21.06261	0.749778
2022 Apr	A	6.25	29.79852	33.65637	1020.81	20.81185	0.846952
2022 May	M	6.25	30.02122	33.5868	1020.68	20.68395	0.896026
2022 Jun	J	6.25	29.67313	33.42628	1020.68	20.68208	1.022663
2022 Jul	J	6.25	27.2001	33.29454	1021.40	21.39648	1.541334
2022 Aug	A	6.25	27.28807	33.33903	1021.40	21.40179	1.196077
2022 Sep	S	6.25	28.07095	33.44578	1021.23	21.22906	0.693133
2022 Oct	O	6.25	28.40578	33.77004	1021.36	21.36265	0.65661
2022 Nov	N	6.25	29.40864	33.74388	1021.01	21.00924	0.460528
2022 Dec	D	6.25	29.06732	33.81801	1021.18	21.17928	0.684146
2023 Jan	J	6.25	29.59941	33.89477	1021.06	21.05791	0.448244
2023 Feb	F	6.25	29.49564	33.91883	1021.11	21.11099	0.733985

MEAN CTD DATA ALLANG 2022-2023

Mounth		Depth	Temp	Salinity	Density	SigmaT	Chl
2022 Mar	M	6.25	28.80305	33.78858	1021.25	21.24525	0.324182
2022 Apr	A	6.25	29.17518	33.71809	1021.07	21.06831	0.451789
2022 May	M	6.25	29.21423	33.67522	1021.02	21.0231	0.662194
2022 Jun	J	6.25	28.72662	33.54089	1021.08	21.08489	0.742924
2022 Jul	J	6.25	27.01484	33.40695	1021.54	21.53992	1.10568
2022 Aug	A	6.25	27.58243	33.48467	1021.42	21.41663	1.02955
2022 Sep	S	6.25	28.0311	33.60846	1021.10	21.09526	0.836088
2022 Oct	O	6.25	28.9524	33.71174	1021.07	21.06959	0.682691
2022 Nov	N	6.25	29.4097	33.96538	1020.96	20.96409	0.559025
2022 Dec	D	6.25	29.3794	33.98627	1021.15	21.15406	0.740697
2023 Jan	J	6.25	29.1411	34.03305	1021.11	21.10633	0.392005
2023 Feb	F	6.25	29.28078	34.08213	1021.31	21.30573	0.296381

Turbidity

0.480106

0.581271

0.70689

0.342363

0.63075

1.6725

2.779897

2.101477

0.817194

0.705132

0.439727

0.454745

Turbidity

0.449388

0.555974

0.958398

0.478342

0.493029

0.776632

1.399842

1.14775

0.700561

0.67564

0.608545

0.53873

Turbidity

0.38978

0.710108

1.127457

1.401399

2.069303

2.283727

1.840271

1.588179

0.827756

1.334394

1.420606

1.006459

Temperatur pada daeraerah tranplantasi karang, Alang-Waitasi, Batu capeuw, Rumatig:

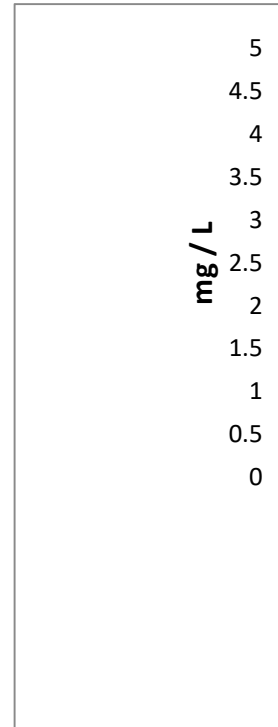
No.	Lokasi	Tanggal	Latitude	Longitude	Bot. Depth [m]
1	Poka-JMP	Sep-22	-3.66058	128.1974	5
2	Poka-JMP	Oct-22	-3.66058	128.1974	5
3	Poka-JMP	Nov-22	-3.66058	128.1974	5
4	Poka-JMP	Dec-22	-3.66058	128.1974	5
5	Poka-JMP	Jan-23	-3.66058	128.1974	5
6	Poka-JMP	Feb-23	-3.66058	128.1974	5
7	Poka-JMP	Mar-23	-3.66058	128.1974	5
8	Poka-JMP	Apr-23	-3.66058	128.1974	5
9	Poka-JMP	May-23	-3.66058	128.1974	5
10	Poka-JMP	Jun-23	-3.66058	128.1974	5
1	Alang-Waitasi	Sep-22	-3.78178	127.98516	5
2	Alang-Waitasi	Oct-22	-3.78178	127.98516	5
3	Alang-Waitasi	Nov-22	-3.78178	127.98516	5
4	Alang-Waitasi	Dec-22	-3.78178	127.98516	5
5	Alang-Waitasi	Jan-23	-3.78178	127.98516	5
1	Batu-Capeuw	Sep-22	-3.7131	128.15042	5
2	Batu-Capeuw	Oct-22	-3.7131	128.15042	5
3	Batu-Capeuw	Nov-22	-3.7131	128.15042	5
4	Batu-Capeuw	Dec-22	-3.7131	128.15042	5
5	Batu-Capeuw	Jan-23	-3.7131	128.15042	5
6	Batu-Capeuw	Feb-23	-3.7131	128.15042	5
7	Batu-Capeuw	Mar-23	-3.7131	128.15042	5
8	Batu-Capeuw	Apr-23	-3.7131	128.15042	5
9	Batu-Capeuw	May-23	-3.7131	128.15042	5
10	Batu-Capeuw	Jun-23	-3.7131	128.15042	5

3-JMP

Depth [meter]	Temperature(°C)
	Rata-rata
4.7	28.6381
4.7	29.1003
4.7	29.7881
4.7	29.7853
4.7	29.5182
4.7	29.5626
4.7	29.9123
4.7	29.7255
4.7	28.8461
4.7	27.5875
4.7	28.0311
4.7	28.9524
4.7	28.8735
4.7	29.3501
4.7	29.1411
4.7	28.4521
4.7	28.8982
4.7	29.6558
4.7	29.5862
4.7	29.3927
4.7	29.5201
4.7	29.7721
4.7	29.4818
4.7	28.6166
4.7	27.5029

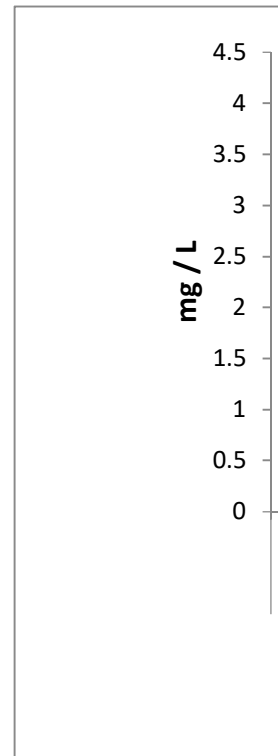
Lokasi Batu Capeo

Month	Depth	PO4 (mg/L)	NO3 (mg/L)	SiO2 (mg/L)
Mar-21	0m	0.019	0.057	0.250
	11m	0.051	0.020	0.375
Apr-21	0m	0.042	0.008	0.167
	11m	0.056	0.018	0.417
May-21	0m	0.014	0.006	0.514
	11m	0.019	0.006	0.681
Jun-21	0m	0.439	0.000	0.639
	11m	0.051	0.003	0.556
Jul-21	0m	0.439	0.000	0.639
	11m	0.051	0.003	0.556
Aug-21	0m	0.107	0.048	0.542
	11m	0.051	0.104	0.333
Sep-21	0m	0.061	0.082	0.361
	11m	0.065	0.082	0.236
Oct-21	0m	0.248	0.022	0.514
	11m	0.117	0.028	0.250
Nov-21	0m	3.776	0.032	0.306
	11m	4.369	0.015	0.167



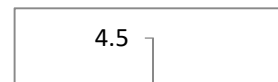
Loaksi Rumah Tiga

Month	Depth	PO4 (mg/L)	NO3 (mg/L)	SiO2 (mg/L)
Mar-21	0m	0.042	0.020	0.958
	11m	0.065	0.005	0.208
Apr-21	0m	0.070	0.000	1.042
	11m	0.056	0.037	0.500
May-21	0m	0.019	0.000	1.111
	11m	0.047	0.006	0.500
Jun-21	0m	4.037	0.000	0.722
	11m	0.028	0.009	0.778
Jul-21	0m	0.551	0.040	2.833
	11m	0.612	0.099	0.403
Aug-21	0m	0.051	0.158	3.097
	11m	0.056	0.096	0.444
Sep-21	0m	0.430	0.043	2.556
	11m	0.079	0.254	0.444
Oct-21	0m	4.014	0.026	1.000
	11m	0.266	0.063	0.319
Nov-21	0m	0.168	0.017	0.750
	11m	0.430	0.018	0.306

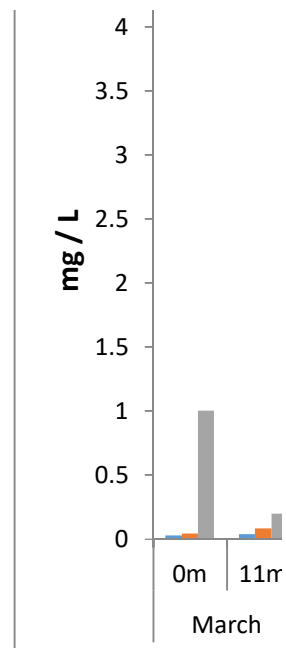


Loaksi Desa Alang

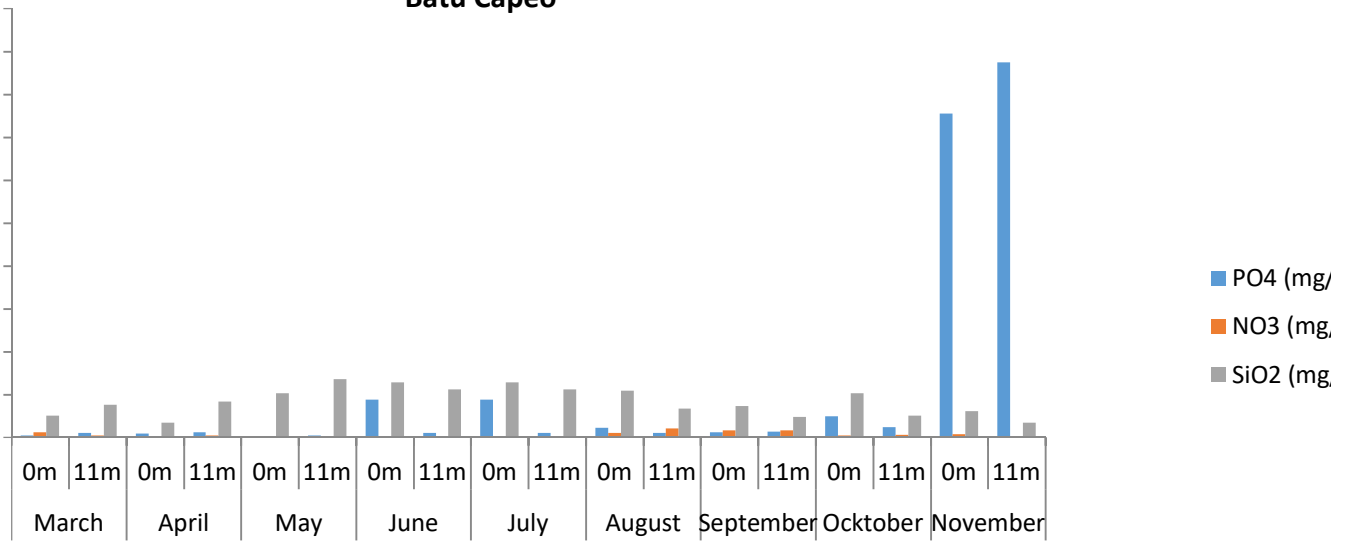
Month	Kedalaman	PO4 (mg/L)	NO3 (mg/L)	SiO2 (mg/L)
Mar-21	0m	0.028	0.039	1.000
	11m	0.037	0.082	0.194



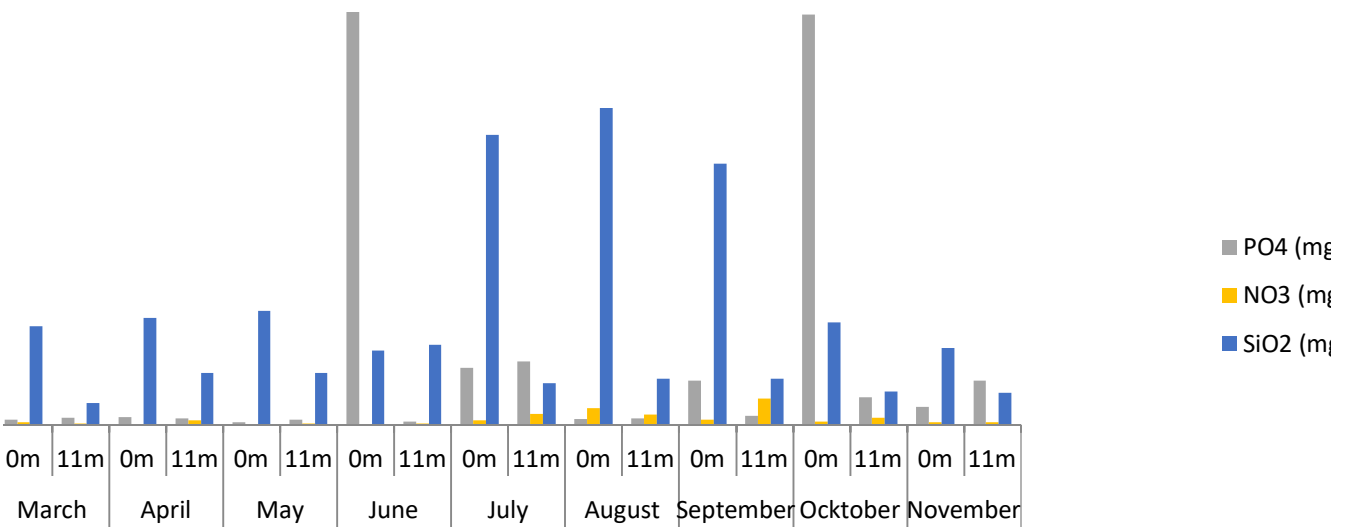
Apr-21	0m	0.023	0.021	0.181
	11m	0.136	0.018	0.486
May-21	0m	0.019	0.007	0.625
	11m	0.023	0.008	0.556
Jun-21	0m	0.023	0.013	1.111
	11m	0.093	0.000	0.542
Jul-21	0m	0.542	0.026	0.639
	11m	0.514	0.017	0.167
Aug-21	0m	0.121	0.061	3.611
	11m	0.065	0.043	0.486
Sep-21	0m	0.075	0.069	1.375
	11m	0.075	0.057	0.361
Oct-21	0m	3.935	0.020	0.333
	11m	4.168	0.025	0.319
Nov-21	0m	0.079	0.020	0.139
	11m	0.201	0.018	0.194



Batu Capeo

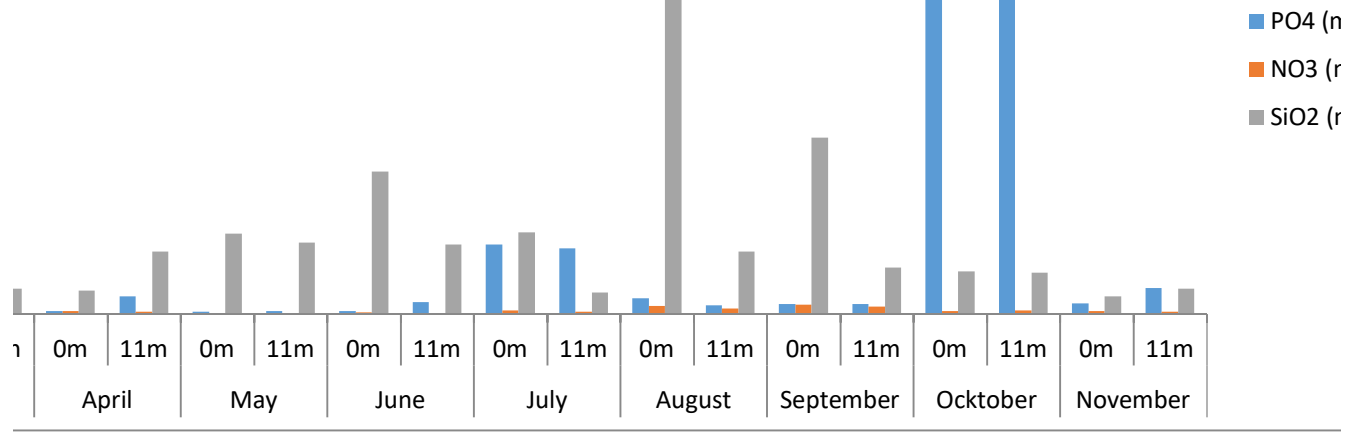


Rumah Tiga



Desa Alang

-



/L)
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3/L)
g/L)
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ng/L)

ng/L)

Analisis Pertumbuhan Komponen bentik pada Rak Tranplantasi Karang Desa /
Maret 2021 - Maret 2023

Major Category Benthic Components (% of transect)	Juni_2021	Oktober_2021	Maret_2022	Agustus_2022
1 CORAL (HC)	18.78	33.55	34.19	36.21
2 RECENT DEAD CORAL (DC)	0.00	0.00	0.00	0.00
3 DEAD CORAL WITH ALGAE (DCA)	48.61	13.39	16.56	15.38
4 SOFT CORAL (SC)	0.00	0.00	0.70	0.70
5 SPONGE (SP)	1.22	10.65	14.46	18.42
6 FLESHY SEAWEED (FS)	1.00	3.71	10.69	8.69
7 OTHER BIOTA (OT)	1.20	16.94	17.85	17.05
8 RUBBLE (R)	0.00	0.00	0.00	0.00
9 SAND (S)	28.98	21.77	5.45	3.45
10 SILT (SI)	0.20	0.00	0.10	0.10
11 ROCK (RK)	0.00	0.00	0.00	0.00
12 TAPE, WAND, SHADOW (TWS)	0.00	0.00	0.00	0.00
Sum (excluding tape+shadow+wand)	100.00	100.00	100.00	100.00

Analisis Pertumbuhan Komponen bentik pada Rak Tranplantasi Karang Batu Capeo D
Maret 2021 - Maret 2023

No	Major Category Benthic Components (% of transect)	Juni_2021	Oktober_2021	Maret_2022	Agustus_2022
1	CORAL (HC)	24.95	42.45	30.32	39.11
2	RECENT DEAD CORAL (DC)	0.00	0.00	0.00	0.00
3	DEAD CORAL WITH ALGAE (DCA)	41.72	23.88	24.21	4.62
4	SOFT CORAL (SC)	4.09	5.41	2.00	2.19
5	SPONGE (SP)	3.89	1.84	7.00	0.77
6	FLESHY SEAWEED (FS)	0.82	1.43	9.84	5.59
7	OTHER BIOTA (OT)	0.00	10.27	22.38	26.52
8	RUBBLE (R)	0.00	0.00	0.00	0.00
9	SAND (S)	24.54	14.73	4.25	21.19
10	SILT (SI)	0.00	0.00	0.00	0.00
11	ROCK (RK)	0.00	0.00	0.00	0.00
12	TAPE, WAND, SHADOW (TWS)	0.00	0.00	0.00	0.00
	Sum (excluding tape+shadow+wand)	100	100.00	100.00	100.00

Analisis Pertumbuhan Komponen bentik pada Rak Tranplantasi Karang JMP Desa F
Maret 2021 - Maret 2023 (24 bulan)

	Major Category Benthic Components (% of transect)	Juni_2021	Oktober_2021	Maret_2022	Agustus_2022
1	CORAL (HC)	16.90	27.52	28.12	28.69
2	RECENT DEAD CORAL (DC)	0.00	0.00	0	0
3	DEAD CORAL WITH ALGAE (DCA)	52.38	19.81	33.71	29.7
4	SOFT CORAL (SC)	0.00	0.00	0	0
5	SPONGE (SP)	0.00	2.85	4.42	5.41
6	FLESHY SEAWEED (FS)	0.71	9.96	8.32	6.3

7	OTHER BIOTA (OT)	0.71	16.33	18.63	22.98
8	RUBBLE (R)	0.00	0.00	0	0
9	SAND (S)	29.29	23.52	4.97	0.49
10	SILT (SI)	0.00	0.00	1.83	6.43
11	ROCK (RK)	0.00	0.00	0	0
12	TAPE, WAND, SHADOW (TWS)	0.00	0.00	0	0
	Sum (excluding tape+shadow+wand)	100	100.00	100	100

Allang

Results of Growth Analysis of Benthic Component

March 2021

November_2022	Maret_2023
37.49	39.56
0.00	0.00
7.90	5.18
5.10	4.05
21.63	22.87
2.81	1.17
21.98	22.70
0.00	0.83
3.08	3.64
0.00	0.00
0.00	0.00
0.00	0.00
100.00	100.00

Benthic Components	June_2021	October_2021
CORAL (HC)	18.78	33.55
DEAD CORAL WITH ALGAE (DCA)	48.61	13.39
SOFT CORAL (SC)	0.00	0.00
SPONGE (SP)	1.22	10.65
FLESHY SEAWEED (FS)	1.00	3.71
OTHER BIOTA (OT)	1.20	16.94
SAND (S)	28.98	21.77

esa Amahusu

Results of Growth Analysis of Benthic Components on B

March 2021

November_2022	Maret_2023
41.80	43.93
0.00	0.00
3.40	4.35
2.00	3.23
3.60	3.20
1.40	2.11
25.80	27.06
0.20	0.00
21.80	16.12
0.00	0.00
0.00	0.00
0.00	0.00
100.00	100.00

Benthic Components	June_2021	October_2021
CORAL (HC)	24.95	42.45
DEAD CORAL WITH ALGAE (DCA)	41.72	23.88
SOFT CORAL (SC)	4.09	5.41
SPONGE (SP)	3.89	1.84
FLESHY SEAWEED (FS)	0.82	1.43
OTHER BIOTA (OT)	0.00	10.27
SAND (S)	24.54	14.73

Rumahtiga

Results of Growth Analysis of Benthic Components on C

Maret 2021 - Ma

November_2022	Maret_2023
34.42	36.42
0.00	0.00
8.08	8.08
0.00	0.00
1.15	1.49
7.42	7.40

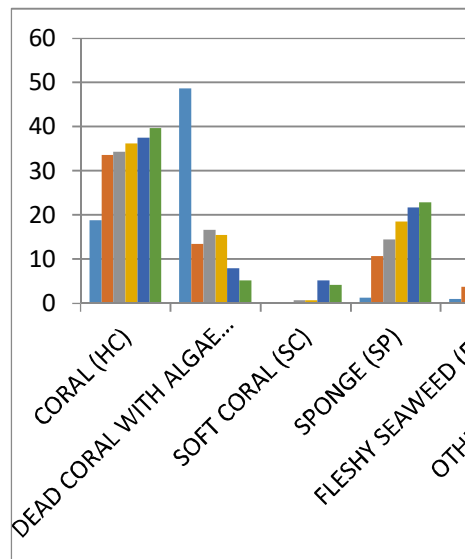
Benthic Components	June_2021	October_2021
CORAL (HC)	16.90	27.52
DEAD CORAL WITH ALGAE (DCA)	52.38	19.81
SOFT CORAL (SC)	0.00	0.00
SPONGE (SP)	0.00	2.85
FLESHY SEAWEED (FS)	0.71	9.96
OTHER BIOTA (OT)	0.71	16.33
SAND (S)	29.29	23.52

25.85	26.51
0.00	0.00
23.08	20.10
0.00	0.00
0.00	0.00
0.00	0.00
100.00	100.00

ts on Coral Transplant Racks in Allang Village Waters

l - March 2023

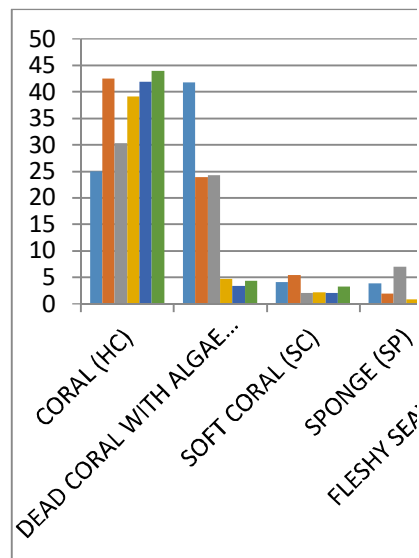
March_2022	Auguts_2022	November_2022	March_2023
34.19	36.21	37.49	39.56
16.56	15.38	7.90	5.18
0.7	0.7	5.10	4.05
14.46	18.42	21.63	22.87
10.69	8.69	2.81	1.17
17.85	17.05	21.98	22.70
5.45	3.45	3.08	3.64



atu Capeu Waters Coral Transplant Shelf, Amahusu Village

l - March 2023

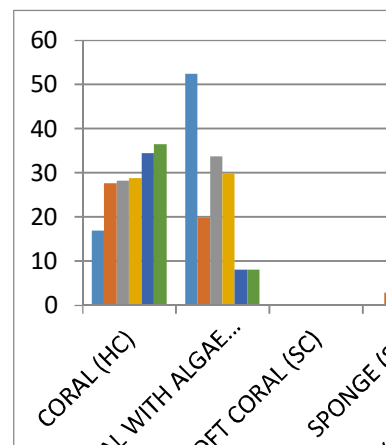
March_2022	Auguts_2022	November_2022	March_2023
30.32	39.11368015	41.80	43.93
24.21	4.62	3.40	4.35
2.00	2.19	2.00	3.23
7.00	0.77	3.60	3.20
9.84	5.59	1.40	2.11
22.38	26.52	25.80	27.06
4.25	21.19	21.80	16.12



Coral Transplant Racks in Poka Waters at Rumahtiga Village

aret 2023 (24 bulan)

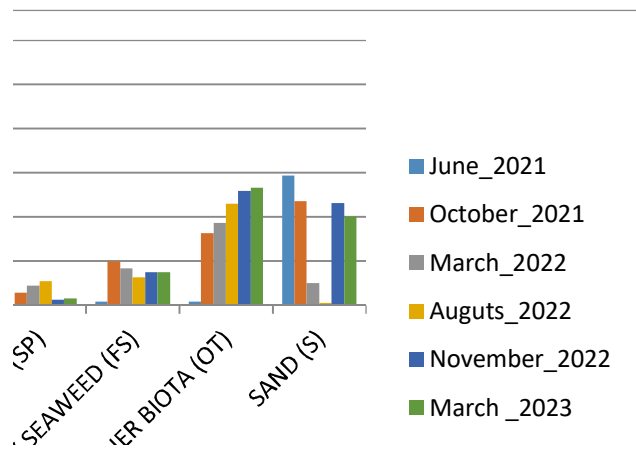
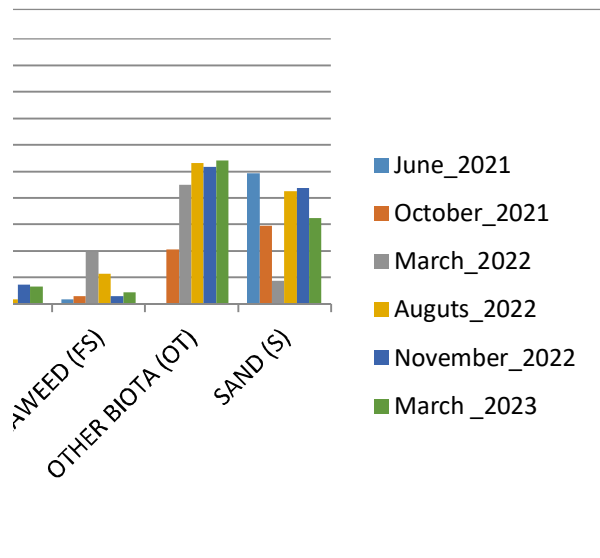
March_2022	Auguts_2022	November_2022	March_2023
28.12	28.69	34.42	36.42
33.71	29.7	8.08	8.08
0	0	0.00	0.00
4.42	5.41	1.15	1.49
8.32	6.3	7.42	7.40
18.63	22.98	25.85	26.51
4.97	0.49	23.08	20.10



DEAD CORAL

SO₂

FLESHY



1.

OTH



BERAT KERING SEDIMEN PER HARI (gram) MARET 2021 SD FERBRUARI 2022

LOKASI	M	A	M	J	J	A	S
	2021	2021	2021	2021	2021	2021	2021
Allang	0.010	0.016	0.210	0.392	0.478	0.389	0.327
Batu capeu	0.120	0.098	0.248	0.192	0.397	0.292	0.225
JMP_Poka	0.058	0.086	0.325	0.131	0.458	0.285	0.259

BERAT KERING SEDIMEN PER HARI (gram) MARET 2022 SD FERBRUARI 2023

LOKASI	M	A	M	J	J	A	S
	2022	2022	2022	2022	2022	2022	2022
Allang	0.015	0.016	0.016	0.250	0.350	0.320	0.280
Batu capeu	0.170	0.130	0.147	0.160	0.350	0.250	0.180
JMP_Poka	0.090	0.100	0.150	0.100	0.390	0.250	0.190

Bulan	Alang			Bulan	Batu Capeuv	
	2021	2022	2023		2021	2022
Januari	0	0.151	0.160	Januari	0	0.203
Pebruari	0	0.145	0.190	Pebruari	0	0.155
Maret	0.010	0.015		Maret	0.120	0.170
April	0.016	0.016		April	0.098	0.130
Mei	0.210	0.016		Mei	0.248	0.147
Juni	0.392	0.250		Juni	0.192	0.160
Juli	0.478	0.350		Juli	0.397	0.350
Agustus	0.389	0.320		Agustus	0.292	0.250
September	0.327	0.280		September	0.225	0.180
Oktober	0.031	0.051		Oktober	0.100	0.090
November	0.110	0.145		November	0.190	0.200
Desember	0.173	0.190		Desember	0.247	0.225

O	N	D	J	F
2021	2021	2021	2022	2022
0.031	0.110	0.173	0.151	0.145
0.100	0.190	0.247	0.203	0.155
0.031	0.035	0.052	0.014	0.019

O	N	D	J	F
2022	2022	2022	2023	2023
0.051	0.145	0.190	0.160	0.190
0.090	0.200	0.225	0.189	0.173
0.019	0.038	0.065	0.015	0.020

v	2023	Bulan	Poka-JMP		
			2021	2022	2023
0.189		Januari	0	0.014	0.015
0.173		Pebruari	0	0.019	0.020
		Maret	0.058	0.090	
		April	0.086	0.100	
		Mei	0.325	0.150	
		Juni	0.131	0.100	
		Juli	0.458	0.390	
		Agustus	0.285	0.250	
		September	0.259	0.190	
		Oktober	0.031	0.019	
		November	0.035	0.038	
		Desember	0.052	0.065	

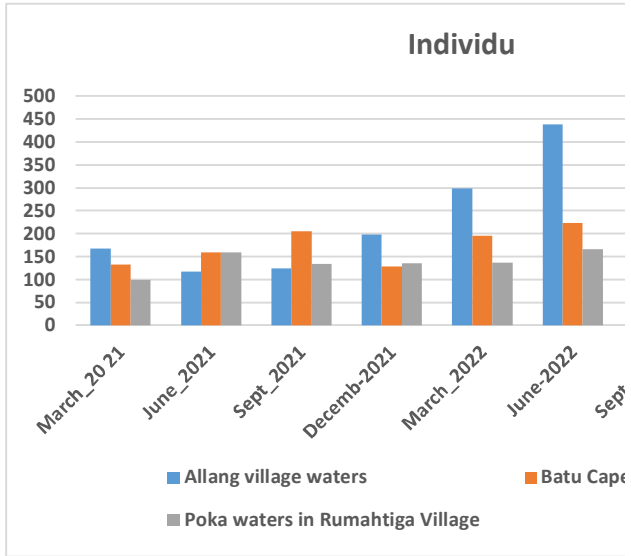
3-Mar-21	
Alang-Waitasi	Bt. Capeuw

Jumlah individu	167	132
Jumlah Family	14	13
Jumlah Jenis	44	41

	3-Mar-21	
398 Jumlah individu		167
18 Jumlah Family		14
70 Jumlah Jenis		44
	10-Jun-21	
433 Jumlah individu		117
19 Jumlah Family		13
69 Jumlah Jenis		35
	24-Sep-21	
461 Jumlah individu		124
21 Jumlah Family		13
67 Jumlah Jenis		34
	15-Dec-21	
459 Jumlah individu		198
22 Jumlah Family		12
72 Jumlah Jenis		39
	2-Mar-22	
628 Jumlah individu		298
21 Jumlah Family		16
82 Jumlah Jenis		44
	11-Jun-22	
827 Jumlah individu		438
17 Jumlah Family		16
83 Jumlah Jenis		55
	10-Sep-22	
593 Jumlah individu		227
19 Jumlah Family		14
91 Jumlah Jenis		44
	19-Dec-22	
846 Jumlah individu		340
22 Jumlah Family		21
96 Jumlah Jenis		70
	3-Mar-23	
932 Jumlah individu		423
23 Jumlah Family		21
104 Jumlah Jenis		83

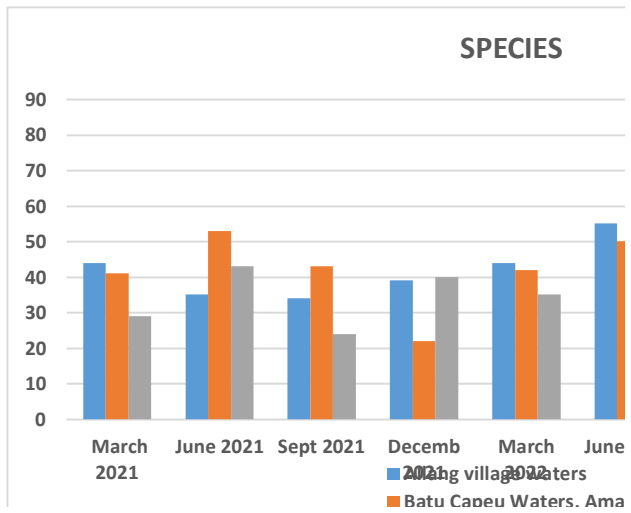
INDIVIDUAL ABUN

Location	
	March_20 21
Allang village waters	167
Batu Capeu Waters, Amahusu	132
Poka waters in Rumahtiga Villa	99
Total individual	398



ABUNDANCI

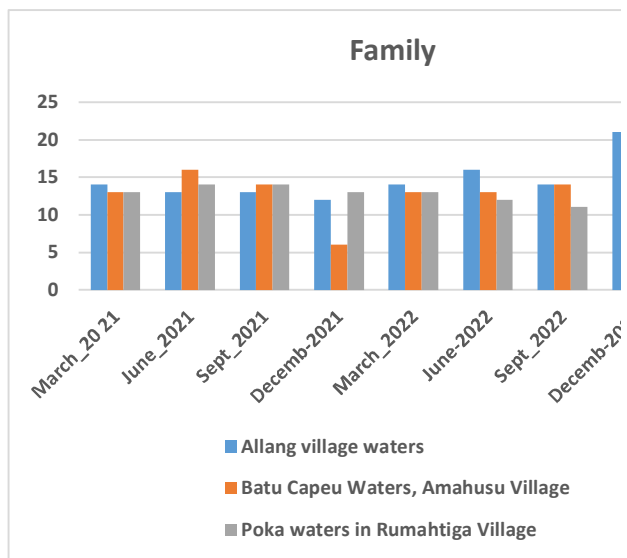
Location	
	March 2021
Allang village waters	44
Batu Capeu Waters, Amahusu	41
Poka waters in Rumahtiga Villa	29



■ Batu Capeu Waters, Amahusu Village
■ Poka waters in Rumahtiga Village

ABUNDANCE

Location	
	March 2021
Allang village waters	14
Batu Capeu Waters, Amahusu Village	13
Poka waters in Rumahtiga Village	13



	10-Jun-21			24-Sep-21		
Poka-JMP	Alang-Waitas	Bt. Capeuw	Poka-JMP	Alang-Waitasi	Bt. Capeuw	

99	117	158	158	124	204
13	13	16	14	13	14
29	35	53	43	34	43

132	99	398
13	13	
41	29	

158	158	433
16	14	
53	43	

204	133	461
14	14	
43	24	

127	134	459
6	13	
22	40	

194	136	628
12	10	
42	35	

223	166	827
13	12	
50	40	

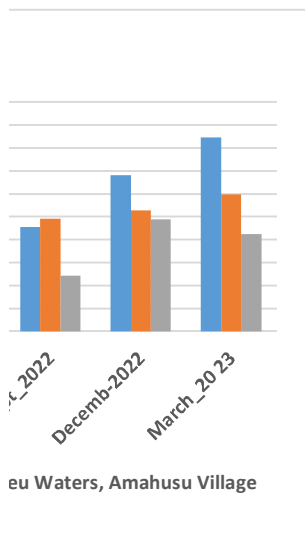
245	121	593
14	11	
62	26	

263	243	846
22	18	
63	66	

298	211	932
18	18	
68	59	

**DANCE OF CARNIVORA AND HERBIVORAL CORAL FISH ON CORAL TRANSPLANT SHELVE ME
TIME (MONTH) OBSERVATIOAN**

June_2021	Sept_2021	Decemb-2021	March 2022	June 2022	Sept 2022
117	124	198	298	438	227
158	204	127	194	223	245
158	133	134	136	166	121
433	461	459	628	827	593



**DANCE OF SPECIES OF CARNIVORA AND HERBIVORA CORAL FISH TRANSPLANT SHELVE MEDIA
TIME (MOTH) OBSERVATION)**

June 2021	Sept 2021	Decemb 2021	March 2022	June 2022	Sept 2022
35	34	39	44	55	44
53	43	22	42	50	62
43	24	40	35	40	26

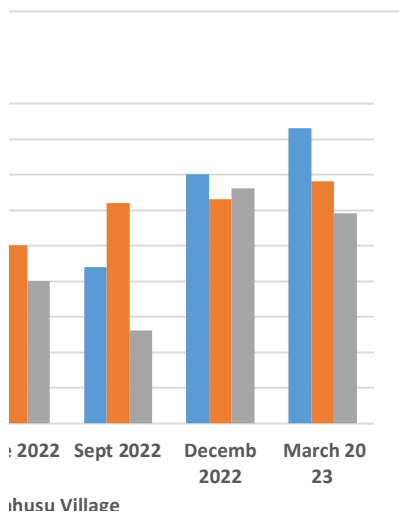
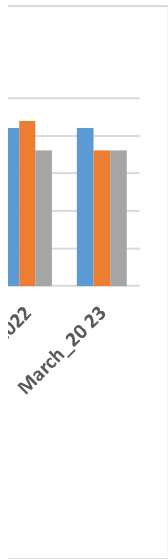


TABLE OF family OF CARNIVORA AND HERBIVORA CORAL FISH TRANSPLANT SHELVE MEDIA

TIME (MONTH) OBSERVATION

June 2021	Sept 2021	Decemb 2021	March 2022	June 2022	Sept 2022
13	13	12	14	16	14
16	14	6	13	13	14
14	14	13	13	12	11



15-Dec-21			
Poka-JMP	Alang-Waitasi	Bt. Capeuw	Poka-JMP

133	198	127	134
14	12	6	13
24	39	22	40

DIA

Decemb-2022	March 2023
340	423
263	298
243	211
846	932

Decemb 2022	March 20 23
70	83
63	68
66	59

Decemb 2022	March 2023
21	21
22	18
18	18

Tabel 2. Komposisi jenis dan biomassa ikan k

		AMQ.1		AMQ.2	
		Indiv	Biomassa	Indiv	Biomassa
	Famili-Spesies				
1	SERRANIDAE				
1	<i>Anyperodon leucogrammicus</i>	6	224	8	624
2	<i>Cephalopholis argus</i>	2	36	5	150
3	<i>Cephalopholis boenak</i>	4	137	2	16
4	<i>Cephalopholis cyanostigma</i>	2	347	0	0
5	<i>Cephalopholis leopardus</i>	3	355	0	0
6	<i>Cephalopholis miniata</i>	0	0	2	202
7	<i>Cephalopholis urodeta</i>	6	408	3	416
8	<i>Cromileptes altivelis</i>	2	472	0	0
9	<i>Epinephelus fasciatus</i>	0	0	4	1335
10	<i>Epinephelus merra</i>	2	62	2	1502
2	LUTJANIDAE				
11	<i>Lutjanus biguttatus</i>	0	0	0	0
12	<i>Lutjanus bohar</i>	4	313	0	0
13	<i>Lutjanus carponotatus</i>	30	2346	0	0
14	<i>Lutjanus fulviflamma</i>	5	51	0	0
15	<i>Lutjanus fulvus</i>	12	133	0	0
16	<i>lutjanus kasmira</i>	15	472	0	0
17	<i>Macolor macolaris</i>	4	339	4	79
18	<i>Macolor niger</i>	5	408	4	504
3	HAEMULIDAE				
19	<i>Plectorhyncus chaetodontoides</i>	0	0	0	0
20	<i>Plectorhyncus lessonii</i>	0	0	0	0
21	<i>Plectorhyncus lineatus</i>	2	226	0	0
22	<i>Plectorhyncus vittatus</i>	4	316	4	589
4	LETHRINIDAE				
23	<i>Gnathodentex aurolineatus</i>	6	230	4	153
24	<i>Lethrinus erythropterus</i>	2	76	0	0
25	<i>Lethrinus harak</i>	1	110	6	1138
26	<i>Lethrinus ornatus</i>	4	228	0	0
27	<i>Lethrinus reticulatus</i>	5	0	0	0
28	<i>Monotaxix grandoculus</i>	6	220	4	146
5	SCARIDAE				
29	<i>Chlorurus sordidus</i>	5	2622	6	3900
30	<i>Chlorurus bleekeri</i>	4	1777	0	0
31	<i>Scarus bowersi</i>	0	0	2	906
32	<i>Scarus bowersi</i>	0	0	0	0
33	<i>Scarus dimidiatus</i>	0	0	0	0
34	<i>Scarus niger</i>	6	1607	0	0
35	<i>Scarus oviceps</i>	0	0	0	0
36	<i>Scarus prasiognathos</i>	0	0	0	0

37		<i>Scarus rivulatus</i>	2	374	4	749
38		<i>Scarus rubroviolacea</i>	0	0	0	0
39		<i>Scarus schlegeli</i>	2	246	4	1422
6		SIGANIDAE				
40		<i>Siganus canaliculatus</i>	2	96	4	45
41		<i>Siganus guttatus</i>	6	1214	8	2260
42		<i>Siganus punctatus</i>	2	393	4	259
43		<i>Siganus vulpinus</i>	2	339	2	133
7		ACANTHURIDAE				
44		<i>Acanthurus auranticavus</i>	0	0	4	622
45		<i>Acanthurus grammoptilus</i>	0	0	0	0
46		<i>Acanthurus lineatus</i>	6	1002	15	1458
47		<i>Acanthurus nigricans</i>	0	0	4	236
48		<i>Acanthurus nigrofuscus</i>	1	155	0	0
49		<i>Acanthurus pyroferus</i>	0	0	0	0
50		<i>Acanthurus xanthopterus</i>	0	0	0	0
51		<i>Ctenochaetus binotatus</i>	0	0	0	0
52		<i>Ctenochaetus cyanocheilus</i>	2	511	0	0
53		<i>Ctenochaetus striatus</i>	11	2491	0	0
54		<i>Naso lituratus</i>	0	0	0	0
55		<i>Naso thynnoides</i>	0	0	4	27023
56		<i>Zebrasoma scopas</i>	4	51	4	51

Biomasa Teluk Ambon 187 20388 117 45917

187 20388.01 117 45917.4

Biomasa Biak 86 2254 77 2824

1 kg = 1000 gram
 258105 grm = 258 kg,105 grm
 Keterangan Lokasi
 AMQ. 1 : Eri
 AMQ. 2 : Batu Capeuw
 AMQ.3 : Hative Besar
 AMQ. 4 : Kota Jawa
 AMQ. 5 : Halong
 AMQ. 6 : Hunuth
 AMQ. 7 : Poka-JMP
 AMQ. 8 : Liliboi
 AMQ. 9 : Alang

	Amq.1	Amq.2	Amq.3
Spesies	37	25	27
Individu	187	117	120
Biomassa	20388	45917	64141
	20160.01	45917.4	64141.35

Site	Spesies	Individu
	jenis	ekor
Amq.1	37	187
Amq.2	25	117
Amq.3	27	120
Amq.4	17	81
Amq.5	18	79
Amq.6	1	4
Amq.7	24	170

Amq.8	46	278
Amq.9	43	310
Total	56	1346

Tabel 2. Komposisi jenis dan biomassa ikan k

No	Famili-Jenis	AMQ.1,Eri 2019		AMQ.2,Bt.Capeu	
		Indiv	Biomassa	Indiv	Biomassa
1	SERRANIDAE				
1	<i>Cephalopolis argus</i>	0	0	0	0
2	<i>Cephalopholis urodeta</i>	0	0	0	0
3	<i>Epinephelus merra</i>	0	0	0	0
2	LUTJANIDAE				
4	<i>Lutjanus biguttatus</i>	0	0	0	0
5	<i>Lutjanus carponotatus</i>	5	644.5423	0	0
6	<i>Lutjanus fulviflamma</i>	0	0	0	0
7	<i>Lutjanus semicinctus</i>	1	80.06874	0	0
3	SCARIDAE				
8	<i>Chlorurus capistratoides</i>	0	0	0	0
9	<i>Scarus dimidiatus</i>	0	0	0	0
10	<i>Scarus ghoban</i>	0	0	0	0
4	SIGANIDAE				
11	<i>Siganus canaliculatus</i>	0	0	0	0
12	<i>Siganus guttatus</i>	5	1068.808	0	0
13	<i>Siganus lineatus</i>	8	1146.04	0	0
14	<i>Siganus virgatus</i>	0	0	0	0
5	ACANTHURIDAE				
15	<i>Acanthurus auranticavus</i>	19	4461.592	0	0
16	<i>Acanthurus blochii</i>	0	0	0	0
17	<i>Acanthurus grammoptilus</i>	0	0	0	0
18	<i>Acanthurus lineatus</i>	1	636.207	0	0
19	<i>Acanthurus nigricans</i>	0	0	0	0
20	<i>Acanthurus nigricauda</i>	1	262.5679	0	0
21	<i>Acanthurus nigrofuscus</i>	1	155.4662	0	0
22	<i>Acanthurus pyroferus</i>	8	826.3879	0	0
23	<i>Acanthurus triostegus</i>	1	59.80538	0	0
24	<i>Ctenochaetus binotatus</i>	15	1478.816	0	0
25	<i>Ctenochaetus striatus</i>	6	985.7674	0	0
26	<i>Ctenochaetus tominiensis</i>	1	47.44434	0	0
27	<i>Naso hexacanthus</i>	0	0	0	0
28	<i>Naso lituratus</i>	2	1160.445	0	0
29	<i>Zebrasoma scopas</i>	3	785.3331	0	0
30	<i>Zebrasoma veliferum</i>	0	0	4	520.0711
		77	13799.29	4	520.0711
	Biomassa (gram/350 m ²)	0	13799.29	0	520.0711

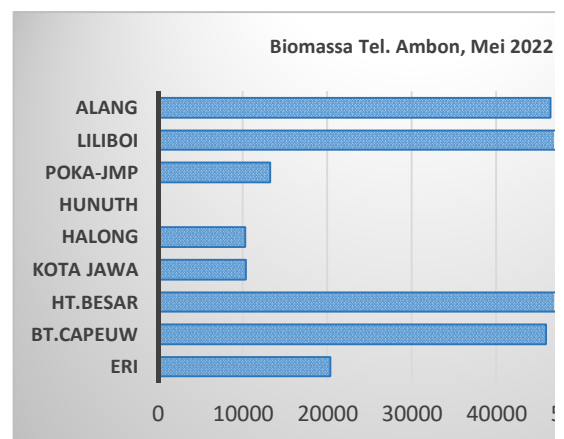
	Individu /stasiun	77	0	4	0
	Jenis/stasiun	15	0	1	0

Keterangan Lokasi

- AMQ. 1 : Eri
- AMQ. 2 : Batu Capeuw
- AMQ.3 : Kota Jawa
- AMQ. 4 : Liliboi
- AMQ. 5 : Hative Besar
- AMQ. 6 : Halong
- AMQ. 7 : Poka-JMP
- AMQ. 8 : Hunuth

Site	Spesies	Individu	Biomassa
	jenis	ekor	grm/350 m ²
Amq.1	15	77	13799
Amq.2	1	4	520
Amq.3	2	1	126
Amq.4	11	72	15,474
Amq.5	9	60	16,653
Amq.6	7	23	2669
Amq.7	2	24	804
Amq.8	1	25	690
Total	30	286	50,736

Site	Biomassa grm/350 m ²
Eri	20,388
Bt.Capeuw	45,917
Ht.Besar	64,141
Kota Jawa	10,393
Halong	10,318
Hunuth	148
Poka-JMP	13,230
Liliboi	47,184
Alang	46,386



4	1356	0	0	3	1017	0	0	4	1356
0	0	0	0	0	0	0	0	0	0
5	1677	2	246	3	764	0	0	0	0
4	1059	2	96	3	144	0	0	6	445
6	3136	5	212	3	369	0	0	4	2090
2	393	0	0	0	0	0	0	8	519
5	539	0	0	3	509	0	0	0	0
8	1244	4	622	6	1268	0	0	2	311
0	0	0	0	2	646	0	0	2	311
6	1002	5	835	0	0	0	0	10	1042
4	236	0	0	4	236	0	0	0	0
2	311	0	0	0	0	0	0	0	0
4	578	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
2	252	2	252	0	0	0	0	2	252
0	0	0	0	0	0	0	0	0	0
8	817	6	479	5	884	0	0	6	613
0	0	0	0	0	0	0	0	0	0
5	33779	0	0	0	0	0	0	0	0
9	462	4	205	0	0	0	0	4	205

120 64141 81 10393 79 10318 4 148 170 13230

120 64141.35 81 10392.76 79 10318.02 4 148.0002 170 13229.84

57 2801 146 11462 248 40239 212 14985 144 12257

Amq.4	Amq.5	Amq.6	Amq.7	Amq.8	Amq.9	Total
17	18	1	24	46	43	
81	79	4	170	278	310	1346 Individu
10393	10318	148	13230	47184	46386	258105 258kg,105gram
10392.76	10318.02	148.0002	13229.84	47184.09	46385.86	257877.3

Biomassa	Site	Biomassa
gram/350 m ²		gram/350 m ²
20,388	Eri	20,388
45,917	Bt.Capeuw	45,917
64,141	Ht.Besar	64,141
10,393	Kota Jawa	10,393
10,318	Halong	10,318
148	Hunuth	148
13,230	Poka-JMP	13,230

47,184
46,386
258,105

Liliboi 47,184
Alang 46,386

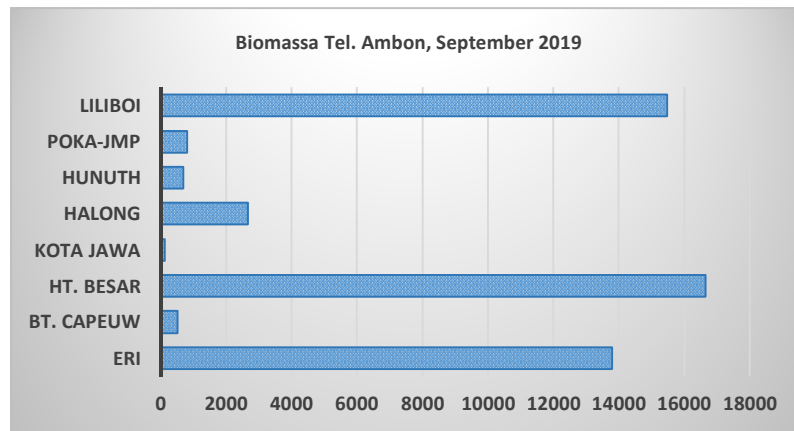
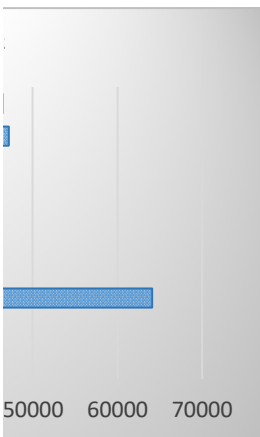
arang kelompok herbivorous di perairan Teluk Ambon tahun September 2019

AMQ.3,Kota Jawa		AMQ.4,Liliboi		AMQ.5,Ht.Besar		AMQ.6,Halong		AMQ.7,Poka-JMP	
Indiv	Biomassa	Indiv	Biomassa	Indiv	Biomassa	Indiv	Biomassa	Indiv	Biomassa
0	0	2	60.16033	0	0	0	0	0	0
0	0	2	194.5113	0	0	0	0	0	0
0	0	2	126.1037	0	0	0	0	0	0
0	0	0	0	0	0	0	0	20	489.9667
0	0	0	0	0	0	2	156.3774	0	0
0	0	0	0	0	0	2	157.214	4	314.4281
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	5	922.326	0	0	0	0	0	0
0	0	1	219.9072	0	0	2	439.8144	0	0
0	0	0	0	5	1222.969	0	0	0	0
0	0	0	0	0	0	2	253.9692	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	2	321.1367	0	0
0	0	5	777.3309	6	643.0724	10	1071.787	0	0
0	0	6	1937.954	0	0	0	0	0	0
0	0	0	0	5	2904.026	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	3	968.9769	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	9	2236.826	8	1243.729	0	0	0	0
0	0	11	2229.027	4	577.6979	3	268.7695	0	0
0	0	0	0	0	0	0	0	0	0
1	125.96	10	849.0157	0	0	0	0	0	0
0	0	17	5661.204	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	10	2430.508	0	0	0	0
0	0	0	0	15	6142.429	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	2	260.0355	4	520.0711	0	0	0	0
1	125.96	72	15474.4	60	16653.48	23	2669.069	24	804.3948
0	125.96	0	15474.4	0	16653.48	0	2669.069	0	804.3948

1	0	72	0	60	0	23	0	24	0
2	0	11	0	9	0	7	0	2	0

Site	Biomassa gram/350 m ²
Eri	13799
Bt. Capeuw	520
Kota Jawa	126
Liliboi	15,474
Ht. Besar	16,653
Halong	2669
Poka-JMP	804
Hunuth	690

Site	Biomassa gram/350 m ²
Eri	13799
Bt. Capeuw	520
Ht. Besar	16,653
Kota Jawa	126
Halong	2669
Hunuth	690
Poka-JMP	804
Liliboi	15,474



AMQ.8

AMQ.9

Indiv	Biomassa	Indiv	Biomassa
2	32	4	39
4	349	8	355
6	48	4	84
4	512	4	979
6	1379	2	863
4	281	4	159
10	622	6	2822
0	0	4	1241
4	374	6	2463
4	1295	5	283
0	0	42	380
4	118	8	1817
0	0	5	391
0	0	4	173
6	470	0	0
2	63	0	0
8	467	4	233
11	593	8	1180
5	376	3	225
10	687	14	938
4	452	4	177
6	883	2	294
10	747	14	900
4	632	4	407
6	251	20	2207
6	820	4	0
1	79	4	88
8	414	10	366
6	5751	6	4277
3	1016	6	2454
4	1811	0	0
0	0	4	2970
0	0	1	390
4	1961	6	2941
0	0	0	0
0	0	0	0

8	2713	8	2713
0	0	0	0
2	509	5	1273
8	383	8	383
4	1594	6	415
4	377	0	0
5	334	5	334
8	2584	8	1914
5	1615	5	294
15	2504	20	3339
10	1072	4	236
15	3170	0	0
15	3447	6	867
2	453	0	0
4	1116	0	0
4	190	0	0
6	986	10	2265
4	1297	0	0
0	0	0	0
7	359	5	257

278 47184 310 46386

278 47184.09 310 46385.86

278 17899 136 13635 131 2584 69 6543 16459

25	0	286
1	0	30

No	TAHUN	BULAN	INTENSITAS CAHAYA	
			MATAHARI	
			JAM (WIT)	PERSEN (%)
1	2018	JANUARI	4	52
		FEBRUARI	5	64
		MARET	6	71
		APRIL	5	59
		MEI	4	48
		JUNI	3	31
		JULI	2	29
		AGUSTUS	4	53
		SEPTEMBER	5	65
		OKTOBER	6	75
		NOVEMBER	6	80
		DESEMBER	5	63
2	2019	JANUARI	5	56
		FEBRUARI	6	74
		MARET	5	61
		APRIL	4	53
		MEI	4	54
		JUNI	2	23
		JULI	2	31
		AGUSTUS	3	53
		SEPTEMBER	5	65
		OKTOBER	5	75
		NOVEMBER	7	80
		DESEMBER	6	63
3	2020	JANUARI	6	76
		FEBRUARI	6	71
		MARET	5	67
		APRIL	4	54
		MEI	4	53
		JUNI	2	24
		JULI	1	14
		AGUSTUS	3	39
		SEPTEMBER	2	29
		OKTOBER	5	63
		NOVEMBER	6	71
		DESEMBER	4	53
4	2021	JANUARI	4	54
		FEBRUARI	4	43
		MARET	6	74
		APRIL	5	65

		MEI	2	20
		JUNI	3	32
		JULI	2	28
		AGUSTUS	2	28
		SEPTEMBER	3	36
		OKTOBER	6	70
		NOVEMBER	5	63
		DESEMBER	3	36
5	2022	JANUARI	4	55
		FEBRUARI	4	47
		MARET	5	58
		APRIL	5	66
		MEI	5	67
		JUNI	5	61
		JULI	1	15
		AGUSTUS	2	21
		SEPTEMBER	4	50
		OKTOBER	6	78
		NOVEMBER	5	67
		DESEMBER	4	47

Keterangan :

- Intensitas cahaya matahari (pukul 08.00-16.00)
- Total curah hujan dalam satuan milimeter (mm)
- Kategori curah hujan bulanan :
 - Rendah (0-100 mm)
 - Menengah (101-300 mm)
 - Tinggi (301-500 mm)
 - Sangat Tinggi(> 500 mm)
- Arah angin dalam satuan derajat Celcius (*c)
- Kecepatan angin dalam satuan Knot (kt)

TOTAL CURAH HUJAN	HARI HUJAN	ANGIN RATA-RATA	
		ARAH	KECEPATAN
236	22	350	4
120	18	350	4
203	22	360	4
292	21	340	4
797	30	340	3
847	28	350	4
542	29	150	4
299	20	150	4
411	18	160	4
29	10	150	4
27	13	220	4
146	21	360	4
24	27	350	4
47	14	350	4
221	17	360	4
316	22	340	4
268	26	340	4
534	30	360	4
272	27	150	5
96	26	150	5
102	16	150	4
172	20	150	4
27	3	150	4
14	7	340	4
97	11	100	4
82	12	350	4
176	17	360	4
87	21	340	4
680	26	340	4
960	30	340	4
842	31	160	4
302	20	150	4
574	26	360	4
441	20	340	4
137	20	150	4
138	23	360	4
125	22	350	4
81	17	350	4
98	12	320	4
122	19	360	4

815	30	330	4
514	27	340	4
1310	30	320	3
913	29	210	4
673	29	220	4
206	17	230	4
157	21	230	4
261	24	250	4
85	20	140	4
100	20	160	4
145	22	150	4
134	17	140	4
144	24	140	4
351	23	360	4
1221	29	170	4
821	28	170	4
425	23	170	4
55	12	160	4
173	13	350	3
270	19	350	4

ANGIN MAKSIMUM	
ARAH	KECEPATAN
360	18
230	18
220	17
200	17
70	15
360	18
200	15
70	12
10	14
150	12
230	25
220	21
200	29
200	29
220	22
160	16
70	17
130	18
160	18
160	18
150	14
150	14
150	12
150	18
350	19
230	20
210	20
230	16
210	16
120	17
160	16
160	15
120	15
220	12
150	13
210	23
220	18
240	20
100	17
220	23

Bulan	ICM	
	Jam	(Wit)persen (%)
Januari	4	52
Ferbruari	5	64
Maret	6	71
April	5	59
Mei	4	48
Juni	3	31
Juli	2	29
Agustus	4	53
September	5	65
Oktober	6	75
November	6	80
Desember	5	63

Bulan	2018	
	ICM (%)	TCH (mm)
Januari	52	236
Ferbruari	64	120
Maret	71	203
April	59	292
Mei	48	797
Juni	31	847
Juli	29	542
Agustus	53	299
September	65	411
Oktober	75	29
November	80	27
Desember	63	146

Bulan /Tahun	2018	
	ICM (%)	TCH (mm)
Januari	52	236
Ferbruari	64	120
Maret	71	203
April	59	292
Mei	48	797
Juni	31	847
Juli	29	542
Agustus	53	299
September	65	411

210	18
120	13
160	14
160	11
160	14
160	23
160	14
160	16
160	19
160	20
160	20
160	12
160	8
220	13
200	13
190	13
210	11
210	11
330	10
230	16

Oktober	75	29
November	80	27
Desember	63	146

Total	
Curah	Hari
Hujan	Hujan
236	22
120	18
203	22
292	21
797	30
847	28
542	29
299	20
411	18
29	10
27	13
146	21

2019		2020		2021		2022	
ICM (%)	TCH (mm)	ICM (%)	TCH (mm)	ICM (%)	TCH (mm)	ICM (%)	TCH (mm)
56	24	76	97	54	125	55	85
74	47	71	82	43	81	47	100
61	221	67	176	74	98	58	145
53	316	54	87	65	122	66	134
54	268	53	680	20	815	67	144
23	534	24	960	32	514	61	351
31	272	14	842	28	1310	15	1221
53	96	39	302	28	913	21	821
65	102	29	574	36	673	50	425
75	172	63	441	70	206	78	55
80	27	71	137	63	157	67	173
63	14	53	138	36	261	47	270

2019		2020		2021		2022	
ICM (%)	TCH (mm)	ICM (%)	TCH (mm)	ICM (%)	TCH (mm)	ICM (%)	TCH (mm)
56	24	76	97	54	125	55	85
74	47	71	82	43	81	47	100
61	221	67	176	74	98	58	145
53	316	54	87	65	122	66	134
54	268	53	680	20	815	67	144
23	534	24	960	32	514	61	351
31	272	14	842	28	1310	15	1221
53	96	39	302	28	913	21	821
65	102	29	574	36	673	50	425

75	172	63	441	70	206	78	55
80	27	71	137	63	157	67	173
63	14	53	138	36	261	47	270

Kabupaten/Kota <i>Regency/City</i>	1961 ¹⁾	1971 ¹⁾	1980 ¹⁾	1990 ¹⁾	1995 ²⁾
Maluku Tenggara Barat	*)	*)	116,166	129,998	138,559
Maluku Tenggara	198,498	221,224	128,887	158,250	168,672
Maluku Tengah	252,928	352,460	379,992	495,003	556,971
Buru	**)	**)	64,014	97,672	109,899
Kepulauan Aru	*)	*)	*)	*)	*)
Seram Bagian Barat	**)	**)	**)	**)	**)
Seram Bagian Timur	**)	**)	**)	**)	**)
Maluku Barat Daya	*)	*)	***)	***)	***)
Buru Selatan	**)	**)	****)	****)	****)
Kota Ambon	99,142	139,704	208,898	276,955	311,974
Kota Tual	*)	*)	*)	*)	*)
Maluku	550,568	713,388	897,957	1,157,878	1,286,075

Catatan/ Note :

*) Termasuk Kabupaten Maluku Tenggara/ Including South East Maluku Regency

***) Termasuk Kabupaten Maluku Tengah/ Including Central Maluku Regency

***) Termasuk Kabupaten Maluku Tenggara Barat/ Including South West Maluku Regency

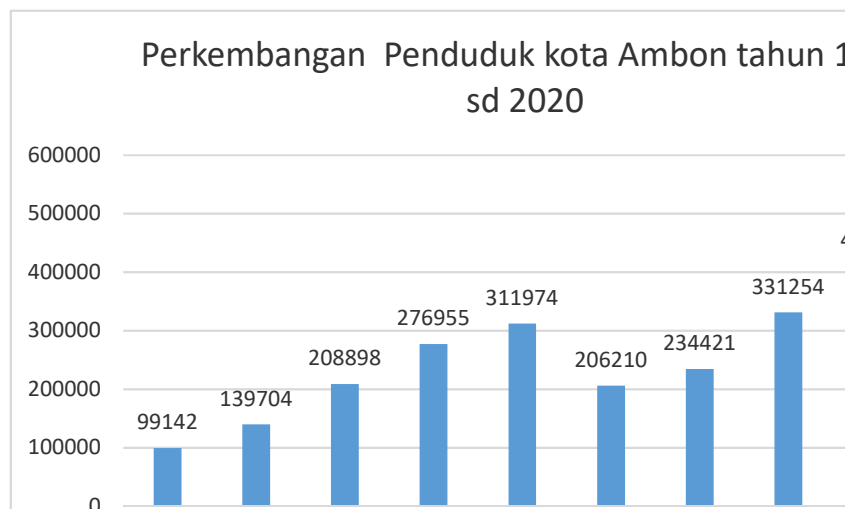
****) Termasuk Kabupaten Buru/ Including Buru Regency

1) Berdasarkan Sensus Penduduk/ Based on Population Census

2) Berdasarkan Registrasi Penduduk/ Based on Population Registration

3) Berdasarkan Proyeksi Penduduk/ Based on Population Projection

Tahun	1961	1971	1980	1990	1995
Jumlah Penduduk	99,142	139,704	208,898	276,955	311,974

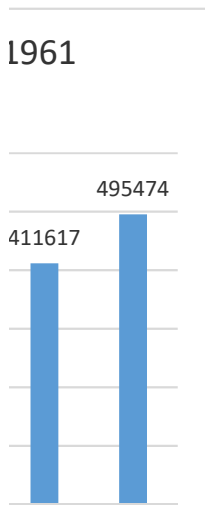


1961 1971 1980 1990 1995 2000 2005 2010

Penduduk Provinsi Maluku Menurut Kabupaten/Kota, 1961 - 2009
Population of Province Maluku By Regency/City, 1961 - 2009

2000 ¹⁾	2003 ²⁾	2004 ²⁾	2005 ²⁾	2006 ²⁾	2007 ³⁾	2008 ²⁾	2009 ²⁾
149,790	156,442	158,792	152,770	161,343	162,636	93,621	94,370
192,953	204,994	141,190	127,273	150,160	153,198	102,991	105,081
526,017	550,743	328,651	324,707	355,548	398,136	368,874	370,931
125,097	131,744	133,406	124,084	139,465	143,310	94,116	95,974
*)	*)	70,473	69,327	76,625	79,865	80,140	81,712
**)	**)	144,003	140,657	158,175	158,619	158,937	159,718
**)	**)	78,733	78,336	80,123	82,699	85,353	86,709
***)	***)	***)	***)	***)	***)	69,612	70,412
****)	****)	****)	****)	****)	****)	51,754	52,950
206,210	244,890	257,774	234,421	263,146	271,972	281,293	284,809
*)	*)	*)	*)	*)	*)	53,323	54,404
1,200,067	1,288,813	1,313,022	1,251,575	1,384,585	1,450,435	1,440,014	1,457,070

							Tahun
2000	2005	2010	2015	2020	2021	2022	Tahun
206,210	234,421	331,254	411,617	495,474	347 644,00	348 225,00	



20

)

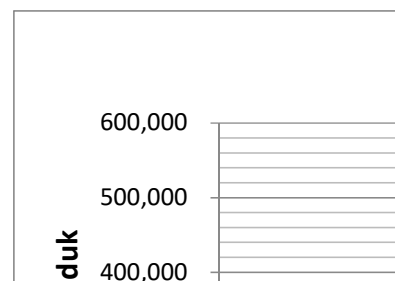
2010 ¹⁾	2011 ³⁾	2012 ³⁾	2013 ³⁾	2014 ³⁾	2015 ³⁾	2016 ³⁾	2017 ³⁾
105,341	107,898	109,768	108,665	109,589	110,425	111,083	111,825
96,442	98,440	100,154	98,073	98,474	98,684	99,086	99,284
361,698	368,999	375,393	367,177	368,290	369,315	370,527	371,479
108,445	113,036	115,004	120,181	124,022	127,908	131,773	135,687
84,138	86,618	88,132	88,739	89,995	91,277	92,578	93,780
164,656	168,197	171,129	168,134	168,829	169,481	170,023	170,494
99,065	102,107	103,890	104,902	106,698	108,406	110,024	111,573
70,714	71,730	72,981	71,707	72,010	72,284	72,504	72,673
53,671	55,403	56,368	57,188	58,197	59,289	60,327	61,330
331,254	348,407	354,464	379,615	395,423	411,617	427,934	444,797
58,082	60,444	61,503	64,032	65,882	67,783	69,689	71,732
1,533,506	1,581,279	1,608,786	1,628,413	1,657,409	1,686,469	1,715,548	1,744,654

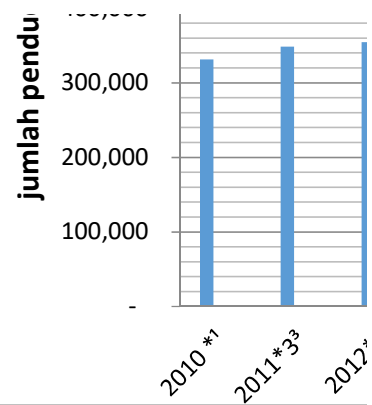
2013	2014	2015	2016	2017	2018	2019	2020
379615,00	395 423,00	411 617,00	427 934,00	444 797,00	461 699,00	478 616,00	347 288,00

2018 ³⁾	2019 ³⁾	2020 ³⁾
112,429	113,012	113,490
99,591	99,790	100,176
372,529	373,378	374,423
139,658	143,688	147,797
95,005	96,114	97,187
170,969	171,586	171,921
113,180	114,677	116,213
72,840	73,103	73,398
62,271	63,328	64,178
461,699	478,616	495,474
73,605	75,578	77,623
1,773,776	1,802,870	1,831,880

2021	2022	Tahun	2010 * ¹	2011* ²	2012* ²
347.644	348.225	Jumlah Penduduk	331,254.00	348,407.00	354,464.00

Tahun	2010 * ¹	2011* ³	2012* ³
Jumlah Penduduk	331,254	348,407	354,464



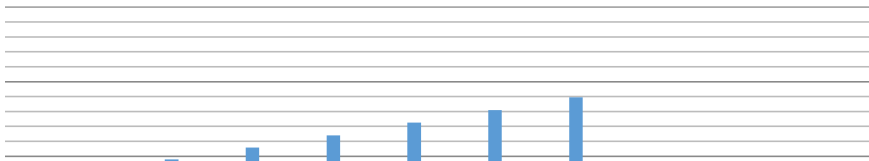


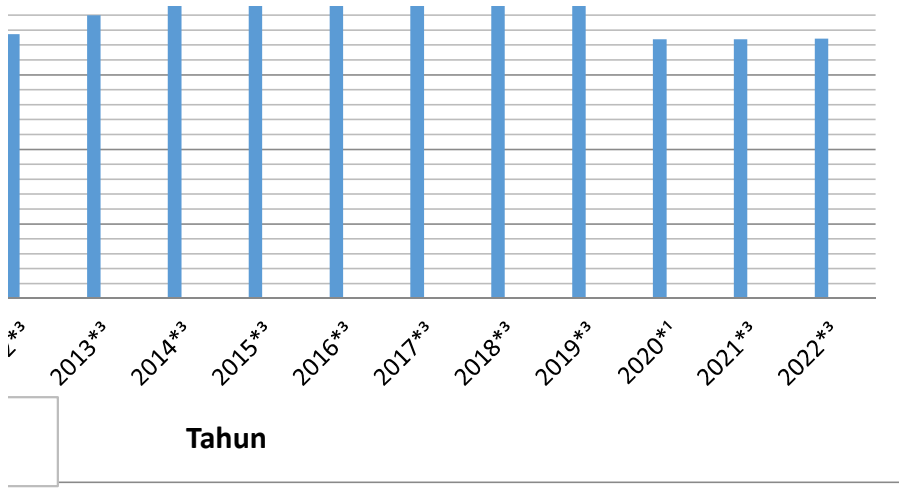
***1 Data sensus penduduk**

2013* ²	2014* ²	2015* ²	2016* ²	2017* ²	2018* ²
379615.00	395 423,00	411 617,00	427 934,00	444 797,0	461 699,00

2013* ³	2014* ³	2015* ³	2016* ³	2017* ³	2018* ³
379,615	395,423	411,617	427,934	444,797	461,699

Chart Title





2019*2	2020*1	2021*2	2022*2
478 616,00	347 288,00	347.644	348.225

2019*3	2020*1	2021*3	2022*3
478,616	347,288	347,644	348,225

Biota Komptitor di jumpai pada medya tehel dan papan slide pada area tranplantasi

Lokasi	Tanggal		Jenis	Family-Jenis
	Peletakan	Pengambilan		
Allang	14-Sep-22	17-Nov-22	Rumput laut Rumput laut	<i>Dictyota bartayressi</i> (DK, TK) <i>Hypnea.Sp</i> (TK)
Batu Capeuw	14-Sep-22	18-Nov-22	Moluska Rumput laut Rumput laut	<i>Chondrococcus.Sp</i> (DK) <i>Hypnea.Sp</i> (TK) <i>Dictyota bartayressi</i> (DK, TK)
Poka-JMP	14-Sep-22	19-Nov-22	Rumput laut Gastropoda Bilvalvia Polikaita Gastropoda Teriptit Teriptit Tiram	<i>Ulfa fasciata</i> (DK, TK) BULLIDAE <i>Bulla ampulla</i> (DK) MURICIDAE <i>Morula margaritocala</i> (DK) COSTELLARIDAE <i>Vexillum semifasciatum</i> (DK) PENIDAE <i>Atrina vexillum</i> (DK) CHAMIDAE <i>Chama lazarus</i> (DK) SEMELIDAE <i>Semele crenulata</i> (DK) Polikaita (TK) Gastropoda (TK) <i>Belanus</i> sp. (TK) <i>Balanus</i> sp. (DK,TK) Tiram (TK)

Jenis moluska yang di jumpai pada tiga lokasi tranplantasi, A

No	Family-Jenis
1	I BIVALVIA Pinidae 1 <i>Pteria penguin</i> Roding, 1798 2 <i>Atrina vexillum</i> Born, 1778
2	Pectinidae 3 <i>Chlamys</i> sp.
3	Limidae 5 <i>Lamaria fragilis</i> Gmelin, 1791
4	Mesodesmatidae 6 <i>Atactodea striata</i> Gmelin, 1791
5	Mytilidae 7 <i>Modiolus micropterus</i> Deshayes, 1836
6	Isognomonidae 8 <i>Isognomon isognomon</i>
7	Ostreidae 9 <i>Saccastrea cucullata</i> , Born 1778

	II Gastropoda
8	Cerithiidae
10	<i>Cerithium nodulosum</i> Bruguiere, 1792
9	Bullidae
11	<i>Bulla ampulla</i> Linnaeus, 1758
10	Muricidae
12	<i>Thais aculeata</i> Deshayes, 1844
11	Mitridae
13	<i>Mitra contracta</i> , Swainson, 1820
12	Strombidae
14	<i>Strombus mutabilis</i> Swainson, 1820
13	Pectinidae
15	<i>Chlamys</i> sp.
14	Vermetidae
16	<i>Serpulorbis siphon</i> , Sassi 1827
15	Siliquaridae
17	<i>Siliquaria anguinita</i>
16	Costellariidae
18	<i>Vexillum semifasciatus</i>
17	Columbellidae
19	<i>Columbella scripta</i> , Lamarck, 1822
	Jenis
	Family

Keterangan: (+) Dijumpai, (-) Tidak dijumpai

Jenis Tritip yang dijumpai pada tiga lokasi tranplantasi, Allar

No	Family-Jenis
1	Belanus Sp.

Jenis Rumput Laut yang dijumpai pada tiga lokasi tranplantasi

No	Family-Jenis
	Kelas : Rhodophyceae
1	Rhodophyceae
1	<i>Galaxaura fastigiata</i>
2	<i>Galaxaura subreticulosa</i>
3	<i>Gracilaria arcuata</i>
4	<i>Laurencia pinnata</i> :
5	<i>Hypnea</i> .Sp
2	Ulvaceae.
6	<i>Ulva fasciata</i>
3	Dictyotaceae.
7	<i>Dictyota bartayressi</i>
8	<i>Dictyopteris</i> sp:
4	Amphiroaceae.
9	<i>Amphiroa fraglissima</i> :
10	<i>Amphiroa zonata</i>
	Kelas : Ulvophyceae
5	Halimedaceae

11	<i>Halimeda simulans</i>
6	Chlorophyceae.
12	<i>Chondrococcus.Sp</i>
	Jenis
	Family

Keterangan: (+) Dijumpai, (-) Tidak dijumpai

Jumlah Individu	Dalam Kurungan (DK)		Tampa Kurungan (TK)		Keterangan
	Berat Basah	Berat Kering	Berat Basah	Berat Kering	
1	90,12	41,29	6,5	3,93	Tehel 20 x 40 Cm
1					
3	28,97	11,61			Tehel 20 x 40 Cm
1			4,9	1,45	Papan slide
4			6,4	3,03	Papan slide
4	89,45	46,58	4,02	2,11	Tehel 20 x 40 Cm
28					
1					
6					
2					
2					
12					
2					
3					
3	2	2	3	2	
1					

Ilalang, Batu Capeuw, Poka-JMP

Allang	Batu Capeuw	Poka-JMP
-		+
+	+	
+	+	+
+	+	
+	+	
+	+	+
+	+	
	+	+

+	+	+
+	+	+
+	+	-
+	+	
+	+	
		+
+	+	+
+	-	+
+	+	-
		+
14	14	10
14	14	10

ng, Batu Capeuw, Poka-JMP

Allang	Batu Capeuw	Poka-JMP
+	+	+

asi, Allang, Batu Capeuw, Poka-JMP

Allang	Batu Capeuw	Poka-JMP
+	+	
+		+
+	+	+
+	+	
+	+	
+	+	
+	+	+
+	+	+
+		

+	+	+
+		+
11	9	6
6	5	5

Location	Macro Algae Species	Waktu Peletakan keramik
Allang		September _2022

	<i>Dictyota bartayressi</i> <i>Hypnea.Sp</i> <i>Dictyopteris sp</i> <i>Galaxaura fastigiata</i> <i>Laurencia pinnata</i>
Batu Capeu Amahusu	<i>Chondrococcus.Sp</i> <i>Hypnea.Sp</i> <i>Dictyopteris sp1</i> <i>Amphiroa fraglissima (</i> <i>Halimeda simulans</i>
Poka Rumahtiga	<i>Ulfa fasciata</i> <i>Gracilaria arcuata</i> <i>Amphiroa zonata</i> <i>Galaxaura subreticulosa</i>

Allang

Batu Capeu ,Amahusu

Kelas : Rhodophyceae
Family: Rhodophyceae
Galaxaura fastigiata
Galaxaura subreticulosa
Gracilaria arcuata
Laurencia pinnata:
Hypnea.Sp

Ulvaceae.
Ulfa fasciata

Dictyotaceae.
Dictyota bartayressi
Dictyopteris sp:

Amphiroaceae.
Amphiroa fraglissima:
Amphiroa zonata

Kelas : Ulvophyceae
Family : Halimedaceae

Jenis Halimeda simulans

Chlorophyceae.

Chondrococcus.Sp

	No Lokasi	Tanggal Peletakan
	I Allang	14 Sepetember 2022
	Rumput Laut	
	2 Batu Capeu	
II	3 JMP Rumahtiga	
	Moluska	
	Gastropoda	
	Bilvalvia	
	Biota Penempel	
	Family-Jenis	Allang

Waktu pengambilan Keramik	Gross weight	Dry weight
November_2022		
	6,5	3,93
	2,90	1,95
	6,4	3,03
	4,90	1,45
	4,02	2,11

Poka Rumahtiga

Tanggal Pengambilan	Jenis spek Kolektor		Jumlah Individu	No Foto
17 Noveber 2022	Dalam Kurungan	Tampa Kurungan		
	Rumput Laut			1
	<i>Dictyota bartayressi</i>			1
18 November 2022	<i>Hypnea.Sp</i>	<i>Hypnea.Sp</i>		
	<i>Chondrococcus.Sp</i>	<i>Dictyota bartayressi</i>		3
	<i>Hypnea.Sp</i>			1
19 November 2022	<i>Ulfa fasciata</i>			4
	Bullidae			
	<i>Bulla ampulla</i>			28
	Muricidae			
	<i>Morula margaritocala</i>			1
	<i>Costellaridiidae</i>			
	<i>Vexillum semifasciatum</i>			
	Penidae			
	<i>Atrina vexillum</i>			6
	Chamidae			
	<i>Chama lazarus</i>			2
	<i>Semelidae</i>			
	<i>Semele crenulata</i>			2
		Polikaita		12
		Gastropoda		2
		Teriptit		
		Balanus		3
		Tiram		1
Batu Capeuw	Poka-JMP			

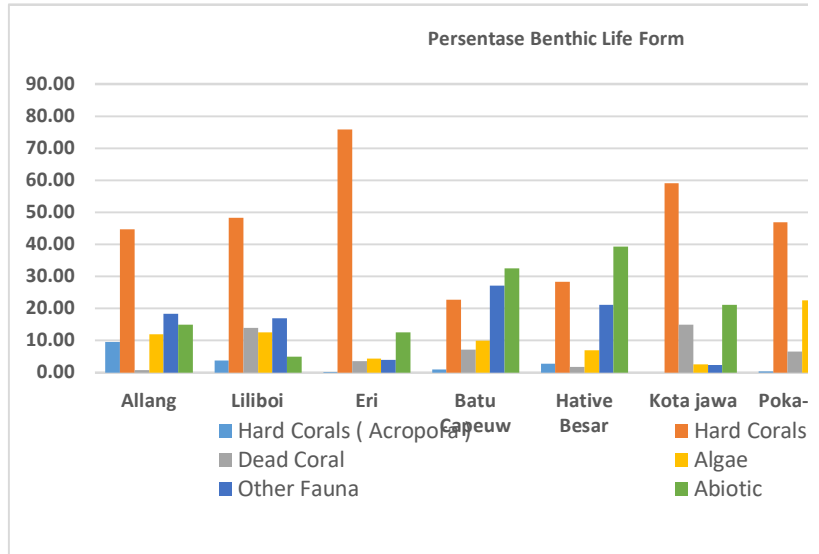
Dalam Kurungan		Tanpa Kurungan		Keterangan
Berat Basah	Berat Kering	Berat Basah	Berat Kering	
90,12	41,29	6,5	3,93	
28,97	11,61	6,4	3,03	Tehel 20 x 40 Cm
		4,90	1,45	Papan slide
89,45	46,58	4,02	2,11	

Rata-Rata Persentase Benthic Life Form Karang di 9 Lokasi Transek Permanen di Teluk Ambon, Juni 2022

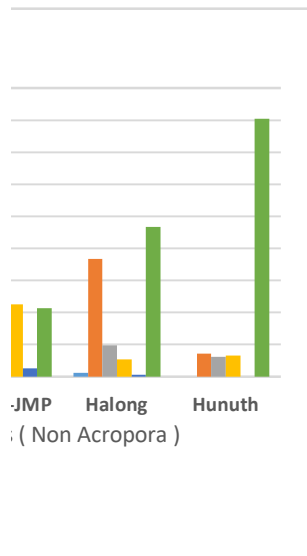
BENTHIC LIFE FORM	Rata-Rata					
	Allang	Liliboi	Eri	Batu Capeuw	Hative Besar	Kota jawa
Hard Corals (Acropora)						
Branching						
Tabulate						
Encrusting						
Submassive						
Digitate	9.50	3.67	0.10	0.83	2.73	0.00
Hard Corals (Non Acropora)						
Branching						
Massive						
Encrusting						
Submassive						
Foliose						
Mushroom						
Millepora						
Heliopora	44.67	48.17	75.70	22.73	28.27	59.07
Dead Scleractinia						
Dead Coral						
(With Algal Covering)	0.77	13.90	3.50	7.03	1.67	14.87
Algae						
Macro						
Turf						
Coraline						
Halimeda						
Algal Assemblage	11.97	12.50	4.30	9.90	6.93	2.50
Other Fauna						
Soft Corals						
Sponge						
Zoanthids						
Others	18.23	16.80	3.90	27.07	21.13	2.40
Abiotic						
Sand						
Rubble						
Silt						
Water						
Rock	14.87	4.97	12.50	32.43	39.27	21.17
Total	100	100	100	100	100	100

Poka-JMP	Halong	Hunuth
0.27	1.07	0.00
46.73	36.70	7.00
6.60	9.63	6.03
22.53	5.37	6.53
2.53	0.57	0.00
21.33	46.67	80.43
100	100	100

Benthic Life Form	Allang	Liliboi	Eri
Hard Corals (Acropora)	9.50	3.67	0.10
Hard Corals (Non Acropora)	44.67	48.17	75.70
Dead Coral	0.77	13.90	3.50
Algae	11.97	12.50	4.30
Other Fauna	18.23	16.80	3.90
Abiotic	14.87	4.97	12.50



Batu Capeuw	relative Besa	Kota Jawa	Poka-JMP	Halong	Hunuth
0.83	2.73	0.00	0.27	1.07	0.00
22.73	28.27	59.07	46.73	36.70	7.00
7.03	1.67	14.87	6.60	9.63	6.03
9.90	6.93	2.50	22.53	5.37	6.53
27.07	21.13	2.40	2.53	0.57	0.00
32.43	39.27	21.17	21.33	46.67	80.43



BERAT KERING SEDIMEN PER HARI (gram) MARET 2021 SD FERBRUARI 2022

LOKASI	A	M	J	J	A	S	O	
Allang	0.0104	0.016	0.2095	0.392	0.478	0.389	0.3269	0.208
Batucapeu	0.12	0.0975	0.2475	0.192	0.3969	0.291845	0.2245	0.1
JMP_Poka	0.0584	0.086	0.3245	0.1312	0.458	0.28479	0.259	0.03148

CURAH HUJAN DI PULAU AMBON

TAHUN	M	A	M	J	J	A	S	O	
2021-2022		98	122	815	514	1310	913	673	206
2022-2023		145	134	144	351	1221	821	425	55

BERAT KERING SEDIMEN PER HARI (gram) MARET 2022 SD FERBRUARI 2023

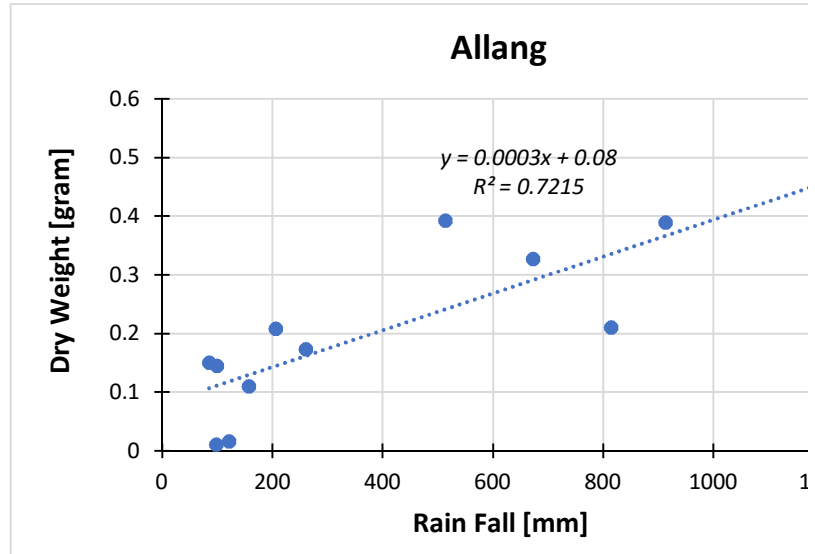
LOKASI	M	A	M	J	J	A	S	O
Allang	0.015	0.016	0.016	0.25	0.35	0.32	0.28	0.051
Batucapeu	0.172	0.131	0.147	0.164	0.353	0.25	0.182	0.104
JMP_Poka	0.095	0.1	0.157	0.105	0.39	0.252	0.19	0.019

CURAH HUJAN DI PULAU AMBON

TAHUN	M	A	M	J	J	A	S	O	
2021-2022		98	122	815	514	1310	913	673	206
2022-2023		145	134	144	351	1221	821	425	55

N	D	J
0.11	0.173	0.1505
0.19	0.2465	0.2025
0.03531	0.05163	0.0135

N	D	J
157	261	85
173	270	247



N	D	J	F
0.145	0.203	0.176	0.183
0.201	0.217	0.209	0.203
0.038	0.06534	0.081	0.122

N	D	J	F
157	261	85	100
173	270	247	265

