

Tahun 2012

Lokasi	Karang hidup	Karang mati	Algae	Other Fauna	Abiotik
Liliboi	48.33	0.77	32.47	13.93	4.37
Hative besar	15.63	3.23	6.6	12.4	62.13
Eri	61.33	0	18.43	6.63	13.6
Batu Capeu	13.83	14	21.13	18.23	32.8
Kota Jawa	58.97	8.47	5.83	0.37	26.37
Poka	59	8.97	0.83	0	31.2
Halong	39.93	20.23	5.13	3.1	31.6
Hunuth	15.43	10.8	0	0	73.77

Tahun 1987

Lokasi	Karang hidup	Karang mati	Algae	Other Fauna	Abiotik
1 Liliboi	69.23	11.03		11.5	8.24
2 Hative besar	43.3	10		26.7	20
3 Eri	76.4	8.3		10.1	5.2
4 Batu Capeu	22.75	19.15		25	33.1
5 Kota Jawa	63.3	11		15.15	10.55
6 Poka	56.2		3.5	0.5	39.8
7 Halong	32.5		25.6	3.1	38.8
8 Hunuth	23.1		6.1	0.5	70.3

2007

Lokasi	Karang hidup	Karang mati	Algae	Other Fauna	Abiotik
Liliboi	31.77	5.77	42.23	18.53	1.7
Hative besar	22.4	-	35.9	18.05	23.65
Eri	46.1	0	27.9	8.2	17.8
Batu Capeu	13.87	0	21.97	35.7	28.46
Kota Jawa	53.07	0	28.27	3	15.66
Poka	62.63	0	17.47	1.57	18.33
Halong	42.9	0	44.4	0	12.7
Hunuth	13.1		6.1	0.5	80.3

2015

Lokasi	Karang hidup	Karang mati	Algae	Other Fauna	Abiotik
Liliboi	60.13	5.77	42.23	18.53	1.7
Hative besar	14.1	-	35.9	18.05	23.65
Eri	78.7	0	27.9	8.2	17.8
Batu Capeu	30.37	0	21.97	35.7	28.46
Kota Jawa	48.73	0	28.27	3	15.66
Poka	11.1	0	17.47	1.57	18.33
Halong	9.5	0	44.4	0	12.7
Hunuth	8.1		6.1	0.5	80.3

Percentage of living corals (%)

Lokasi	Tahun			
	1985	1996	2007	2012
Liliboi	69	39	28.4	48.33
Hative besar	53	22	22	15.63
Eri	76	43	34.6	61.33
Batu Capeu	23	10	23.5	13.83
Kota Jawa	69	25	53.1	58.97
Halong	33	10	19	39.93
Poka				59
Hunuth				15.43

2009

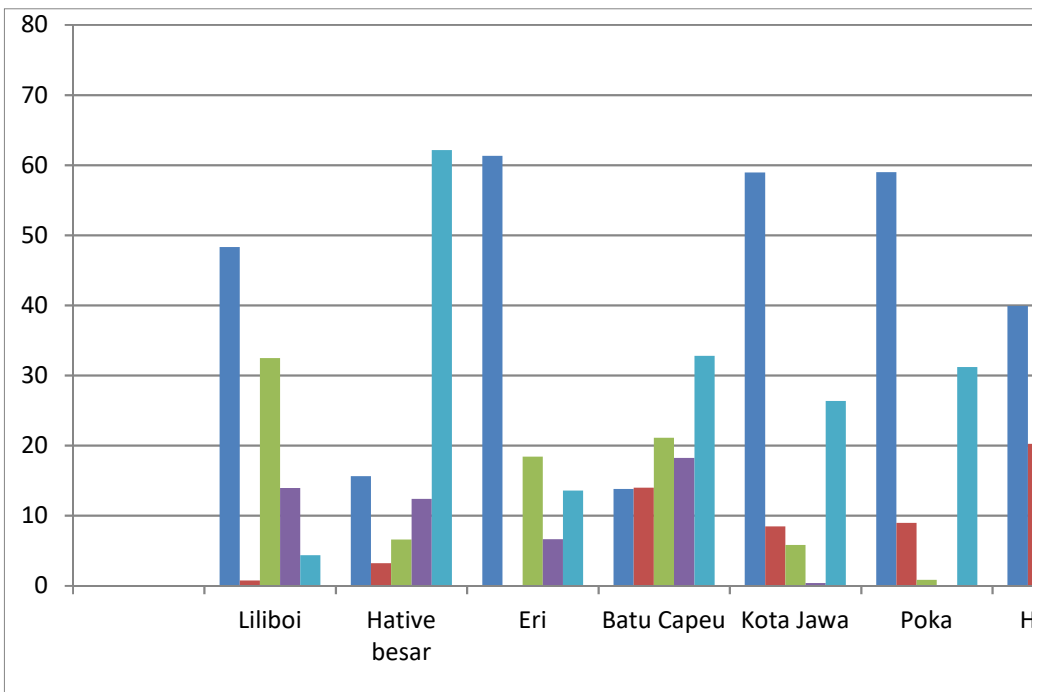
Lokasi	Karang hidup	Karang mati	Algae	Other Fauna	Abiotik
Liliboi	41.27	0	36.3	17.13	5.3
Hative besar	32.5	-	24.15	21.95	21.4
Eri	51.4	0	21.60	6.40	20.6
Batu Capeu	17.6	0	26	20.4	36
Kota Jawa	57.43	0	30.47	1.23	10.87
Poka	65.47	0.3	13.93	0.3	20
Halong	39.7	0	40.66	0.77	18.87
Hunuth	9.6	4.1	5.5	0.5	80.3

2017

Jumlah
100
100
100
100
100
100
100
100
100

Lokasi	Karang hidup	Karang mati	Algae	Other Fa	Abiotik
Liliboi	61.8	15.23	2.23	12.47	3.27
Hative besar	16.15	29.6	0	14.25	34.7
Eri	81.84	6.53	0	2.07	24.27
Batu Capeu	33.21	19.87	0.6	16.47	22.07
Kota Jawa	51.57	29.9	0	6	12.53
Poka	12.18	54.5	2	2.25	29.07
Halong	10.21	43.33	0	0.6	31.6
Hunuth	10.44	36.33	0	0	53.23

Jumlah
100
100
100
100
100
100
100
100
100



Jumlah
100
100
100
100
100
100
100
100
100

Eri

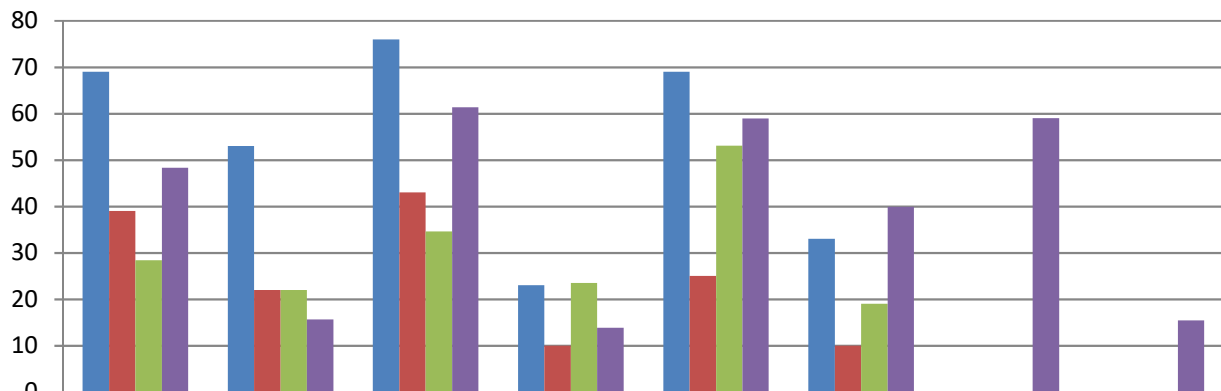
I

II

III

HT Besar

Jumlah	LF	39.1	65.6	33.5	46.1	LF
	DC	0.0	0.0	0.0	0.0	DC
	Algae	32.9	18.4	32.3	27.9	Algae
	OT	12.3	5.2	7.2	8.2	OT
	Abiotik	15.7	10.8	27.0	17.8	Abiotik
					100.0	
	128.36					
	91.7					
	132.6					
	116.5					
95.66	Batu Capeu I	II	III			Kt Jawa
48.47	LF	15.8	17.1	8.7	13.87	LF
66.6	DC	0	0	0	0.00	DC
95	Algae	27.6	20.3	18	21.97	Algae
	OT	38.8	47.4	20.9	35.70	OT
	Abiotik	17.8	15.2	52.4	28.47	Abiotik
		100	100	100	100.00	
	Halong I	II	III			Poka
	LF	50.7	49.1	28.9	42.9	LF
	DC	0	0	0	0	DC
	Algae	41.1	29.2	62.9	44.4	Algae
	OT	0	0	0	0	OT
	Abiotik	8.2	21.7	8.2	12.7	Abiotik
		100	100	100	100	



	Liliboi	Hative besar	Eri	Batu Capeu	Kota Jawa	Halong	Poka	Hunuth
Series1	69	53	76	23	69	33		
Series2	39	22	43	10	25	10		
Series3	28.4	22	34.6	23.5	53.1	19		
Series4	48.33	15.63	61.33	13.83	58.97	39.93	59	15.43

42.6	0	39.1	2.3	16
39.7	0	45	0	15.3
36.8	0	37.9	0	25.3
39.70	0	40.67	0.77	18.87

Jumlah
100
100
100
100
100
100
100
100
100

Liliboy
Hative besar
Eri
Batu
Kota Jawa
Poka
Halong
Hunuth

LF

DC

Algae

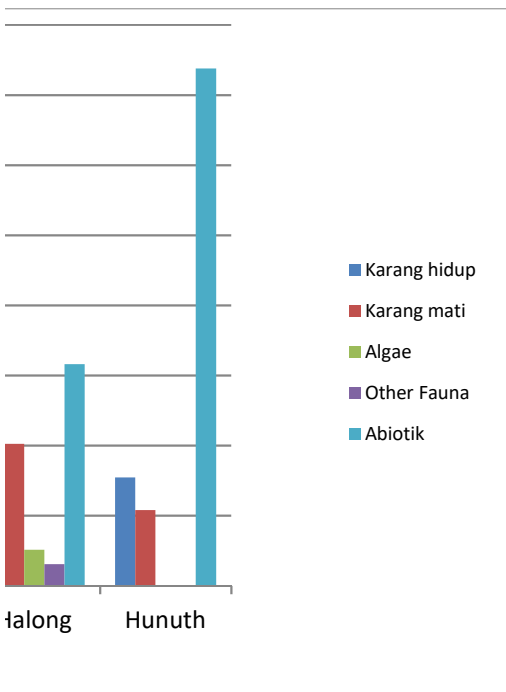
OT

Abiotik

2019

Jumlah
100
100
100
100
100
100
100
100
100

Lokasi	Karang hidup	Karang mati
Liliboi	35.2	33.06
Hative besar	14.74	26.48
Eri	46.08	31.94
Batu Capeu	11.06	21.98
Kota Jawa	54.64	21.38
Poka	19.3	55.04
Halong	17.5	20.32
Hunuth	3.12	0



Abiotik	Algae
20.74	21.98
	11.54
	5.1
	38.62

	I	II	III
37.40	7.4	22.40 Liliboy	
0	0	0.00 LF	39.5
21	50.8	35.90 DC	12.5
26.2	9.9	18.05 Algae	38.9
15.4	31.9	23.65 OT	6.9
		100.00 Abiotik	2.2
			100

I	II	III	
56	44.3	58.9	53.07
0	0	0	0.00
27.6	23.8	33.4	28.27
0	5	4	3.00
16.4	26.9	3.7	15.67
100	100	100	100.00

I	II	III	
65	56.8	66.1	62.63
0	0	0	0.00
25.9	8.6	17.9	17.47
3.7	0	1	1.57
5.4	34.6	15	18.33
100	100	100	100.00



100.00

Juml

Algae	Other Fa	Abiotik	Jumlah
3.56	21.8	6.38	100
0.36	28.4	30.02	100
4.84	2.76	14.38	100
18.28	26.28	22.4	100
4.31	5.18	14.49	100
1.63	3.14	20.89	100
39.48	2.14	20.56	100
54.48	0	42.4	100

ot

1.84

0.32

0.14

2.3

31.77

5.77

42.23

18.53

1.70

100.00

Tahun 1987

Lokasi	Karang hidup	Karang mati	Algae	Other Fauna
Hative besar	43.3	10	0	26.7
Eri	76.4	8.3	0	10.1
Batu Capeu	22.75	19.15	0	25
Kota Jawa	63.3	11	0	15.15
Poka	56.2	2	1.5	0.5
Halong	32.5	10	15.6	3.1
Hunuth	23.1	3	3.1	0.5

2007

Lokasi	Karang hidup	Karang mati	Algae	Other Fauna
Liliboi	31.77	5.77	42.23	18.53
Eri	46.1	10	17.9	8.2
Batu Capeu	13.87	11	10.97	35.7
Kota Jawa	53.07	18	10.27	3
Poka	62.63	7	10.47	1.57
Halong	42.9	20	24.4	0
Hunuth	13.1	3	6.1	0.5

2009

Lokasi	Karang hidup	Karang mati	Algae	Other Fauna
Liliboi	41.27	2	34.3	17.13
Hative besar	32.5	3	21.15	21.95
Batu Capeu	17.6	3	23	20.4
Kota Jawa	57.43	4	26.47	1.23
Poka	65.47	1.3	12.93	0.3
Halong	39.7	4	36.66	0.77
Hunuth	9.6	4.1	5.5	0.5

2012

Lokasi	Karang hidup	Karang mati	Algae	Other Fauna
Liliboi	48.33	0.77	32.47	13.93
Hative besar	15.63	3.23	6.6	12.4

Eri	61.33	0	18.43	6.63
Batu Capeu	13.83	14	21.13	18.23
Kota Jawa	58.97	8.47	5.83	0.37
Poka	59	8.97	0.83	0
Halong	39.93	20.23	5.13	3.1
Hunuth	15.43	10.8	0	0

2015

Lokasi	Karang hidup	Karang mati	Algae	Other Fauna
Liliboi	60.13	14.13	12.13	10.47
Hative besar	14.1	29.6	7.42	14.18
Eri	78.7	6.53	1.3	2.2
Batu Capeu	30.37	19.87	11.6	16.1
Kota Jawa	48.73	29.9	3.1	6
Poka	11.1	53.13	2.25	4.45
Halong	9.5	42	14.9	2.6
Hunuth	8.1	36.3	1	1.3

0.3 0.19 0.25 0.34 0.41

2017

Lokasi	Karang hidup	Karang mati	Algae	Other Fauna
Liliboi	61.8	15.23	2.23	12.47
Hative besar	16.15	29.6	0	14.25
Eri	81.84	6.53	0	2.07
Batu Capeu	33.21	19.87	0.6	16.47
Kota Jawa	51.57	29.9	0	6
Poka	12.18	54.5	2	2.25
Halong	10.21	43.33	0	0.6
Hunuth	10.44	36.33	0	0

2019

Lokasi	Karang hidup	Karang mati	Algae	Other Fauna
Liliboi	35.2	33.06	3.56	21.8
Hative besar	14.74	26.48	0.36	28.4
Eri	46.08	31.94	4.84	2.76
Batu Capeu	11.06	21.98	18.28	26.28
Kota Jawa	54.64	21.38	4.31	5.18
Poka	19.3	55.04	1.63	3.14
Halong	17.5	20.32	39.48	2.14
Hunuth	3.12	4	50.48	0

$$IM = \frac{\% \text{ Penutupan karang mati}}{\% \text{ Penutupan (Karang mati + Karang hidup)}}$$

Lokasi	Karang Hidup	Karang Mati	Alage	Fauna lain
Transek 1	44.27	1.13	8.5	13
Transek 2	3.87	0	28.87	11.13
Transek 3	51.43	27.47	7.23	13.87
Transek 4	50.97	17.53	6.03	14.07
Transek 5	50.53	27.8	5.43	15.97

Reef Site Parmanet Transec	Percentage Coverage of H			
	Year			
	1987	2007	2009	2012
Liliboi	69.23	41.77	41.27	48.33
Hative besar (OAB)	43.3	22.4	32.5	15.63
Eri (OAB)	76.4	51.1	51.4	61.33
Batu Capeu (OAB)	22.75	13.87	17.6	13.83
Kota Jawa (OAB)	63.3	53.07	57.43	58.97
Poka (OAB)	56.2	62.63	65.5	59
Halong (IAB)	32.5	42.9	39.7	39.93
Hunuth (IAB)	23.1	13.1	9.6	15.43

Abiotik	IM
20	0.19
5.2	0.10
33.1	0.46
10.55	0.15
39.8	0.03
38.8	0.24
70.3	0.11

Abiotik	IM
1.7	0.15
17.8	0.18
28.46	0.44
15.66	0.25
18.33	0.10
12.7	0.32
77.3	0.19

Abiotik	
5.3	0.05
21.4	0.08
36	0.15
10.87	0.07
20	0.02
18.87	0.09
80.3	0.30

Abiotik	IM
4.37	0.02
62.13	0.17

Reef Site Parmanet Transec		Total.spe cies	%Component	
			HC/LF	DC/DCA
Liliboi		137	69.23	18.03
Hative besar		126	43.3	16
Eri		137	76.4	13.3
Batu Capeu		114	22.75	19.15
Kota Jawa		150	63.3	18
Poka		96	56.2	17
Halong		96	42.5	14.8
Hunuth		17	23.1	5.67

Reef Site Parmanet Transec		Total.Spe cies	%Component	
			HC/LF	DC/DCA
Liliboi		137	48.27	5.6
Hative besar		126	32.5	14.9
Eri		139	51.4	8.8
Batu Capeu		116	17.6	8.98
Kota Jawa		151	57.43	11
Poka		96	62.47	19.83
Halong		96	39.7	19.9
Hunuth		19	15.6	14.1

Reef Site Parmanet Transec		Total Species	%Component	
			HC/LF	DC/DCA
Liliboi		129	60.13	14.13
Hative besar		75	14.1	29.6
Eri		135	76.7	11.5
Batu Capeu		113	25.37	21.87
Kota Jawa		136	48.73	21.9
Poka		58	35.1	19.13
Halong		63	18.5	29.7
Hunuth		16	14.12	13.3

13.6	0.00
32.8	0.50
26.37	0.13
31.2	0.13
31.6	0.34
73.77	0.41

$$PC = \frac{\text{Panjang total suatu kategori biota}}{\text{Panjang tali}} \times 100$$

Abiotik	IM
3.14	0.19
34.7	0.68
11.27	0.08
22.06	0.40
12.27	0.38
29.07	0.83
31	0.82
53.3	0.82

0.56 0.78

Abiotik	IM
3.27	0.20
34.7	0.65
24.27	0.07
22.07	0.37
12.53	0.37
29.07	0.82
31.6	0.81
53.23	0.78

1987	2007	2009	2012
69.23	31.77	41.27	48.33
43.3	22.40	32.5	15.63
76.4	46.10	51.4	61.33
22.75	13.87	17.6	13.83
63.3	53.07	57.43	58.97
56.2	62.63	65.47	59
55.20	38.31	44.28	42.85
32.5	42.9	39.7	39.93
23.1	13.1	9.6	15.43
27.8	28	24.65	27.68

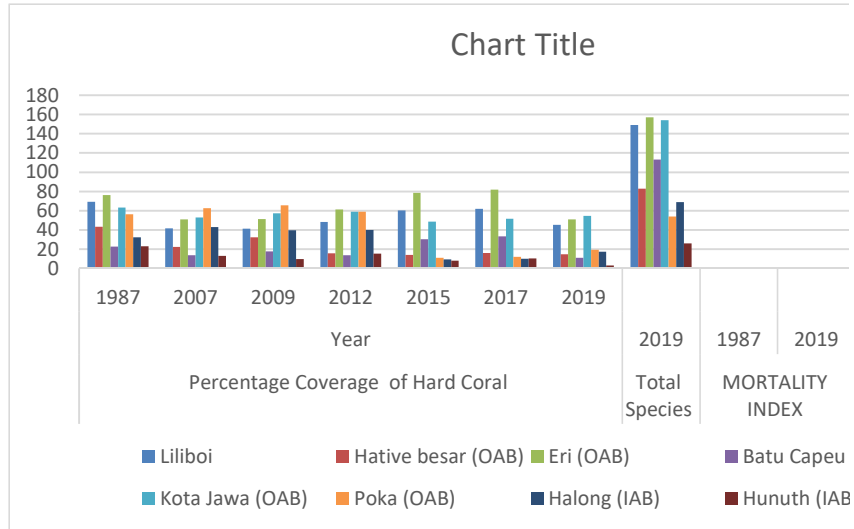
Abiotik	IM
6.38	0.48
30.02	0.64
14.38	0.41
22.4	0.67
14.49	0.28
20.89	0.74
20.56	0.54
42.4	0.56

1987	2007	2009	2012
0.86	0.23	0.07	0.02
0.99	0.51	0.02	0.17
0.36	0.84	0.03	0.00
0.59	0.46	0.03	0.50
0.55	0.74	0.02	0.13
0.66	0.87	0.03	0.13
0.67	0.61	0.03	0.16
0.24	0.91	0.03	0.34

0.11 1.00 0.01 0.41
 0.175 0.96 0.02 0.38

5

Abiotik	IM
33.1	0.02488987
56.13	0
0	0.34816223
11.4	0.25591241
0.27	0.35490872



Hard Coral			Total Species	MORTALITY INDEX		Reef Status	
2015	2017	2019	2019	1987	2019	1987	2019
60.13	61.8	45.2	149	0.54	0.51	Good	Fair
14.1	16.15	14.7	83	0.32	0.53	Fair	Poor
78.7	81.84	51.1	157	0.54	0.51	Exellen	Good
30.4	33.21	11.1	113	0.44	0.52	Fair	Poor
48.7	51.57	54.6	154	0.51	0.51	Good	Good
11.1	12.18	19.3	54	0.47	0.52	Good	Poor
9.5	10.21	17.5	69	0.50	0.52	Fair	Poor
8.1	10.44	3.12	26	0.62	0.56	Poor	Poor

1987			IM	Total Species	2007			
benthic transec result					% Component benthic trans			
Algae	OT	Abiotic			HC	DC/DCA	Algae	OT
0	6.2	6.54	0.21	137	50.77	5.77	32.23	18.5
0	20.7	20	0.27	126	22.4	10	25.9	18.1
0	5.1	5.2	0.15	139	51.1	10	12.9	8.2
0	25	33.1	0.46	115	16.87	11	13.97	35.7
0	8.15	10.55	0.22	151	53.07	18	10.27	3
1.5	0.5	24.8	0.23	96	62.63	18.9	9.57	1.57
12.5	12.1	38.1	0.26	96	42.9	20	24.4	0
10.1	19	42.13	0.20	19	16.7	3.5	6.1	0.77

2009			IM	Total.S pecies	2012			
benthic transec result					% Component benthic trans			
Algae	OT	Abiotic			HC	DC/DCA	Algae	OT
26.3	14.11	5.72	0.10	129	48.33	8.9	24.47	13.9
20.15	11.05	21.4	0.31	122	15.63	8.23	6.6	12.4
13.4	7.3	19.1	0.15	129	61.33	11.9	9.37	5.8
23	20.4	30.02	0.34	118	15.83	11	26.13	18.2
19.47	1.23	10.87	0.16	131	58.97	12.47	5.83	0.37
5.4	3.3	9	0.24	96	47	14.97	0.83	6
21.61	0.77	18.02	0.33	97	39.93	20.23	5.13	3.2
5.5	12.5	52.3	0.47	19	16.43	14.8	5	4

2015			IM	Total Species	2017			
benthic transec result					% Component benthic trans			
Algae	OT	Abiotic			HC	DC/DCA	Algae	OT
12.13	10.47	3.14	0.19	149	61.8	15.23	2.23	12.5
7.42	14.18	34.7	0.68	83	16.15	29.6	5.3	14.3
1.3	2.2	8.3	0.13	157	75.84	15.53	0	2.07
16.6	16.1	20.06	0.46	113	28.21	21.87	11.6	16.3
6.1	11	12.27	0.31	154	51.57	29.9	0	6
12.25	19.45	14.07	0.35	54	32.18	24.5	12	5.25
14.9	7.6	29.3	0.62	69	17.21	29.33	6.86	12.9
12.02	14.3	46.26	0.49	14	10.44	11.33	10	15

48.27 5.6

Poka 0.23 0.09 0.13 0.336 0.49 0.54 0.81

Halong	0.31	0.32	0.11	0.13	0.19	0.46	0.74
	1987	2007	2009.00	2012	2015	2017	2019

	39.7	4	36.66	0.77	18.87	100	0.09
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23.1	5.67	10.1	19	42.13	100
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69.23	18.03	0	6.2	6.54	100
43.3	16	0	20.7	20	100
76.4	13.3	0	5.1	5.2	100
22.75	19.15	0	25	33.1	100
63.3	18	0	8.15	10.55	100
56.2	17	1.5	0.5	24.8	100
32.5	18.8	7.5	3.1	38.1	100
23.1	29.67	3.1	2	42.13	100

2015	2017	2019	41.27	5.6	33.3
60.13	61.8	35.2	32.5	14.9	20.15
14.1	16.15	14.74	51.4	8.8	13.4
78.7	81.84	46.08	17.6	8.98	23
30.37	33.21	11.06	57.43	11	19.47
48.73	51.57	54.64	65.47	19.83	5.4
11.1	12.18	19.3	39.7	19.9	21.61
40.52	42.79	30.17	15.6	14.1	5.5

9.5	10.21	17.5
8.1	10.44	3.12
8.8	10.325	10.31

2015	2017	2019
0.19	0.20	0.48
0.68	0.65	0.64
0.08	0.07	0.41
0.40	0.37	0.67
0.38	0.37	0.28
0.83	0.82	0.74
0.42	0.41	0.54
0.82	0.81	0.54

0.82 |
0.82

0.78 |
0.80

0.56
0.55

1987	2019
Reef Status	

(OAB)

3)

		Reef Status	
sec result	IM	1987	2007
Abiotic			
1.7	0.10	Good	Good
23.65	0.31	Fair	Poor
17.8	0.16	Excellent	Good
28.46	0.39	Fair	Poor
15.66	0.25	Good	Good
7.33	0.23	Good	Good
12.7	0.32	Fair	Fair
73.53	0.17	Poor	Poor

		Reef Status	
sec result	IM	2009	2012
Abiotic			
4.37	0.16	Fair	Fair
57.14	0.34	Fair	Poor
11.6	0.16	Good	Good
32.8	0.41	Poor	Poor
22.36	0.17	Good	Good
31.2	0.24	Good	Fair
31.51	0.34	Fair	Fair
59.77	0.47	Poor	Poor

		Reef Status	
sec result	IM	2015	2017
Abiotic			
8.27	0.20	Good	Good
34.7	0.65	Poor	Poor
7	0.17	Excellent	Excellent
22.07	44.00	Fair	Fair
12.53	0.37	Fair	good
29.07	0.43	Fair	Poor
25.73	0.63	Poor	Poor
53.23	0.52	Poor	Poor

26.3 14.11 5.72

0.82

Reef Site Parmanet Transec	Total Species	%C
		HC/LF
Liliboi	137	50.2
Hative besar	83	26.74
Eri	157	51.08
Batu Capeu	113	23.06
Kota Jawa	154	54.64
Poka	54	24.3
Halong	69	17.5
Hunuth	10	7.12

17.5

126 2007
69.23 25 41.77
43.3 17 22.4
76.4 21 51.1
22.75 13.87
63.3 53.07
56.2 62.63
55.20 40.81

2015 2017
60.13 9.5 61.8
78.7 9.5 81.84
30.37 33.21
48.73 51.57
11.1 12.18
46 48.12
0.21
0.05
0.04
0.23
0.20
0.46
0.49
0.78

0.82

0

50.2

32.74

51.08

23.06

54.64

24.3

17.5

7.12

260.64

7.12

14.11	5.72	100
11.05	21.4	100
7.3	19.1	100
20.4	30.02	100
1.23	10.87	100
0.3	9	100
0.77	18.02	100
12.5	52.3	100

2019				IM	Reef Status
Component benthic transec result					
DC/DCA	Algae	OT	Abiotic		
23.06	3.56	16.8	6.38	0.31	Good
22.48	0.36	18.4	24.02	0.46	Fair
14.94	12.84	6.76	14.38	0.23	Good
21.98	15.28	21.28	18.4	0.49	Poor
21.38	4.31	5.18	14.49	0.28	Good
32.04	8.63	14.14	20.89	0.57	Fair
29.32	11.48	12.14	30.56	0.63	Poor
9.5	30.9	10.27	42.21	0.57	Poor

Reef Site Parmanet Transec

Liliboi
Hative besar (OAB)
Eri (OAB)
Batu Capeu (OAB)
Kota Jawa (OAB)
Poka (OAB)
Halong (IAB)
Hunuth (IAB)

20.32	19.48	12.14	30.56	100	0.20
					0.65
					0.10
					0.40
					0.37
42.9	41.27	39.7	48.33	39.93	0.79
13.1	32.5	9.6	15.63	15.43	0.79
28	51.4	24.65	61.33	27.68	0.52
	17.6		13.83		
	57.43		58.97		
	65.47		59		
	44.28		42.85		

Reef Site Parmanet Transec

Liliboi
Hative besar
Eri
Batu Capeu
Kota Jawa
Poka
Halong
Hunuth

10.21	45.2	17.5		0.63	
10.21	51.08	17.5			
	11.06				
	54.64				
	19.3				
	36.256				

$$IM = \frac{\%}{\% Penutup}$$

Mortality Index

catagory 1 (Poor)
catagory 2 (Fair)
catagory 3 (Good)
category Exellent

23.06	3.56	16.8	6.38	100
24.48	0.36	18.4	24.02	100.00
18.94	8.84	6.76	14.38	100
21.98	15.28	21.28	18.4	100
21.38	4.31	5.18	14.49	100
32.04	8.63	14.14	20.89	100.00
20.32	39.48	2.14	20.56	100
9.5	30.9	10.27	42.21	100.00
171.7	111.36	94.97	161.33	
4	42.9	3.27	42.71	100

Percentage Coverage of Hard Coral						
Year						
1987	2007	2009	2012	2015	2017	2019
69.23	41.77	41.27	48.33	60.13	61.8	45.2
43.3	22.4	32.5	15.63	14.1	16.15	14.74
76.4	51.1	51.4	61.33	78.7	81.84	51.08
22.75	13.87	17.6	13.83	30.37	33.21	11.06
63.3	53.07	57.43	58.97	48.73	51.57	54.64
56.2	62.63	65.47	59	11.1	12.18	19.3
32.5	42.9	39.7	39.93	9.5	10.21	17.5
23.1	13.1	9.6	15.43	8.1	10.44	3.12

Total Species	2022					IM	Reef Status
	%Component benthic transec result						
	HC/LF	DC/DCA	Algae	OT	Abiotic		
151	51.83	22.9	12.5	16.8	4.97	0.31	Good
85	31.00	24.67	6.93	21.13	39.27	0.44	Fair
157	75.8	14.5	6.3	3.9	12.2	0.16	Exelen
109	23.57	24.03	9.9	27.07	32.43	0.50	Poor
156	59.07	21.87	2.5	2.4	21.17	0.27	Good
53	24.10	32.98	22.71	12.78	21.43	0.58	Fair
61	16.5	28.45	5.37	4.57	46.67	0.63	Poor
10	7.00	10.33	6.15	11.29	40.23	0.60	Poor

↳ Penutupan karang mati
an (Karang mati + Karang hidup)

0.0 - 0.249

0.25 - 0.449

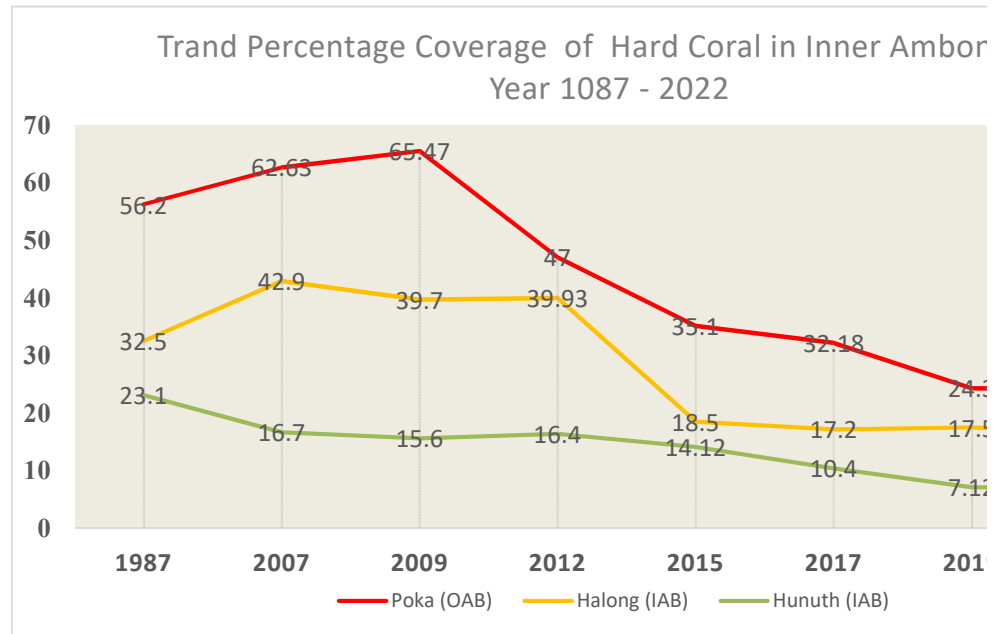
0.50 - 0.749

0.75 - 1

Trand Percentage Cove.

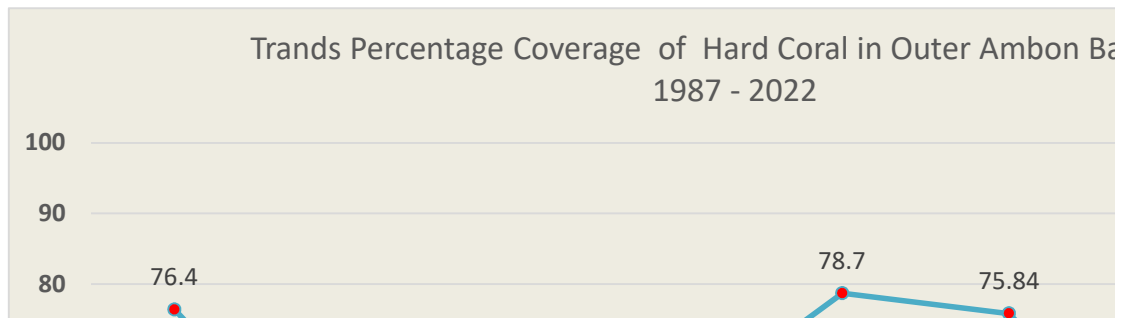
Poka (OAB)	96	53	43
Halong (IAB)	96	61	35
Hunuth (IAB)	19	10	9

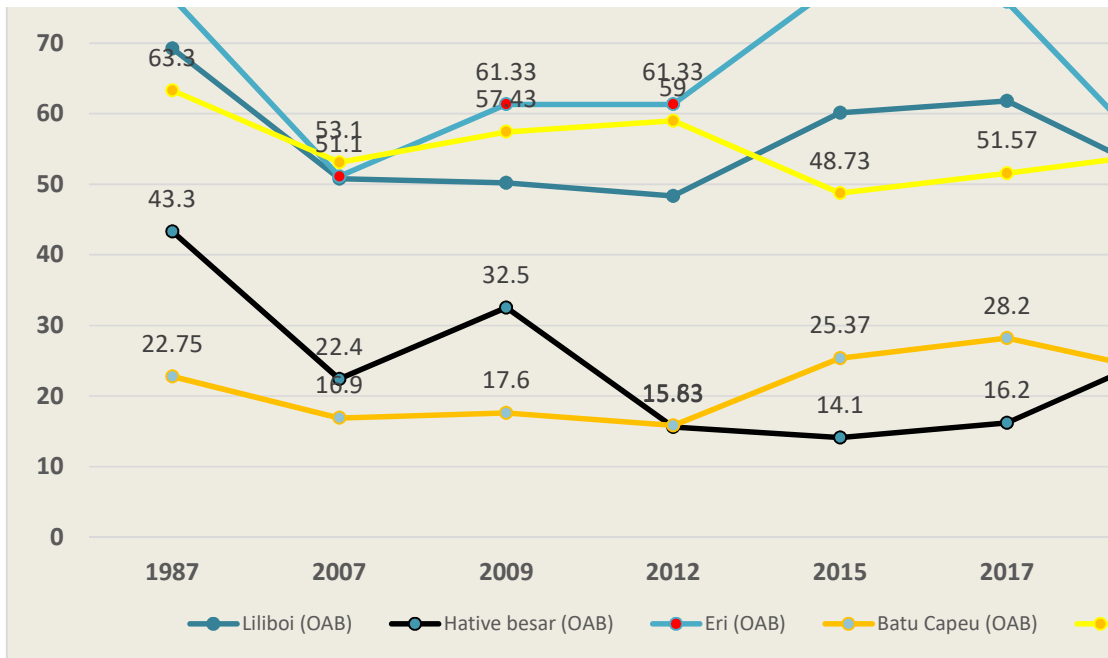
	1987	2007	2009	2012	2015	2017
Poka (OAB)	56.2	62.63	65.47	47	35.1	32.18
Halong (IAB)	32.5	42.9	39.7	39.93	18.5	17.2
Hunuth (IAB)	23.1	16.7	15.6	16.4	14.12	10.4



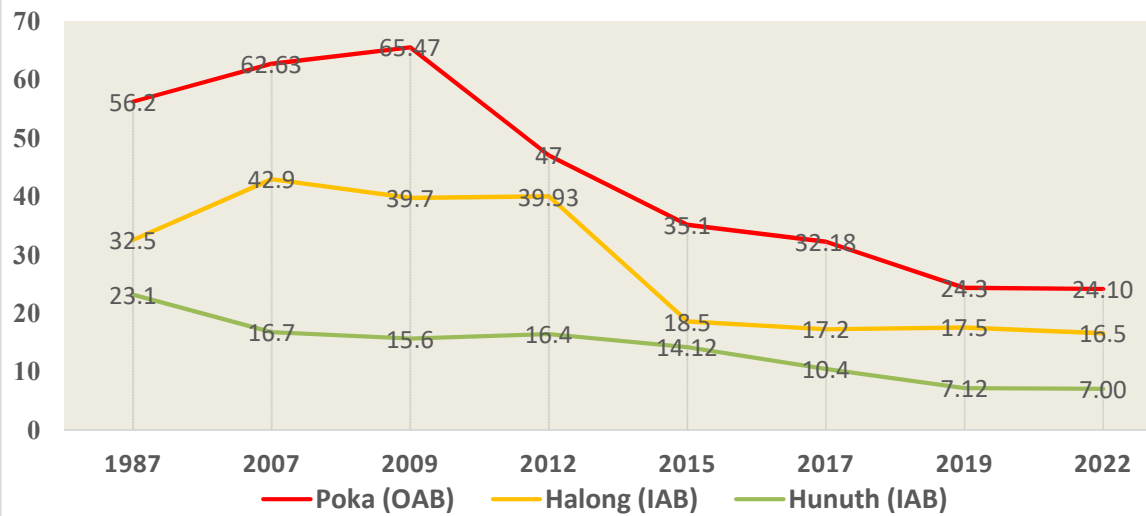
	1987	2007	2009	2012	2015	2017
Liliboi (OAB)	69.23	50.8	50.2	48.33	60.13	61.8
Hative besar (OAB)	43.3	22.4	32.5	15.63	14.1	16.2
Eri (OAB)	76.4	51.1	61.33	61.33	78.7	75.84
Batu Capeu (OAB)	22.75	16.9	17.6	15.83	25.37	28.2
Kota Jawa (OAB)	63.3	53.1	57.43	59	48.73	51.57

Trand Percentage Coverage of Hard Coral in Inner Ambon Bay, Year 1087 - 2022

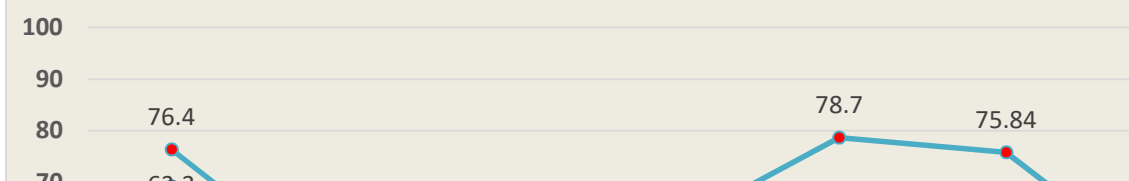


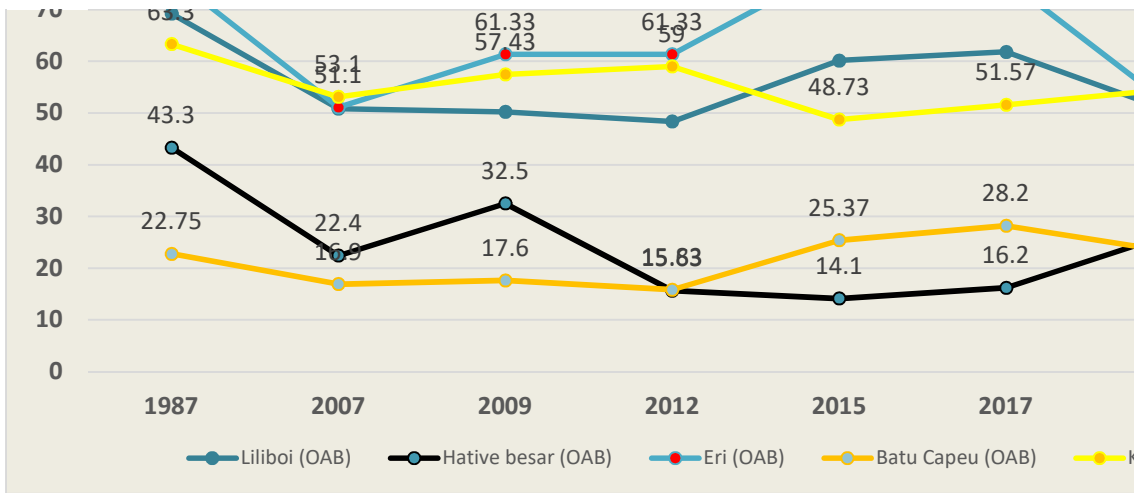


Trands Percentage Coverage of Hard Coral in Inner Ambon Bay, 1987 - 2022



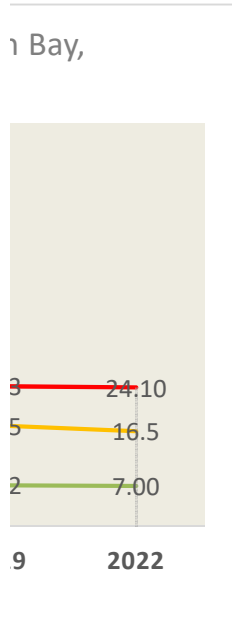
Trands Percentage Coverage of Hard Coral in Outer Ambon Bay, Year 1987 - 2022





2019	2022		
24.3	24.10	-57.12	221.461,04
17.5	16.5	-49.23	154.443,01
7.12	7.00	-69.70	1

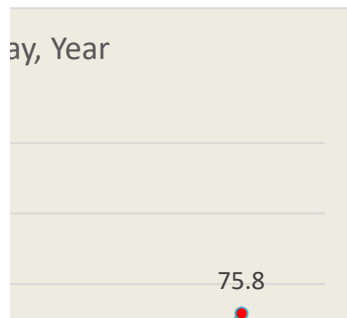
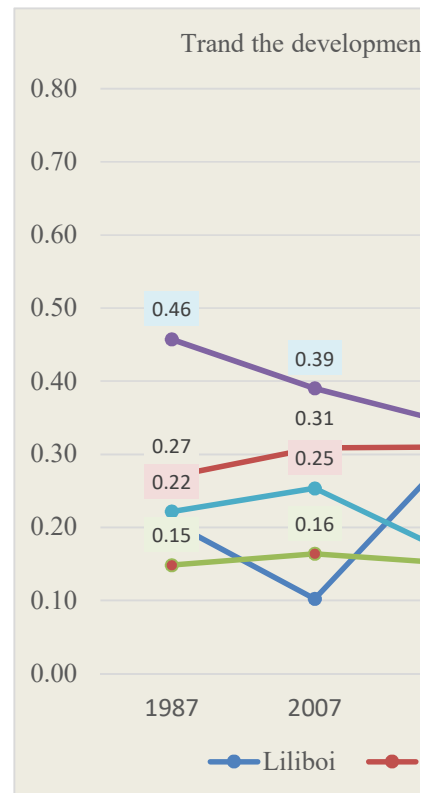
Liliboi
 Hative besar
 Eri
 Batu Capeu
 Kota Jawa

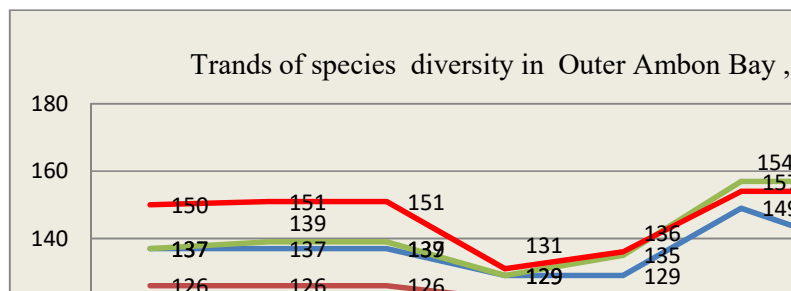
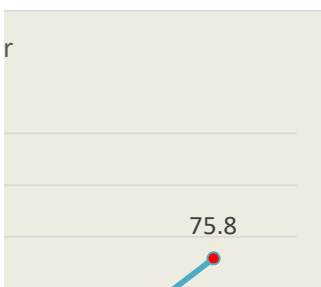
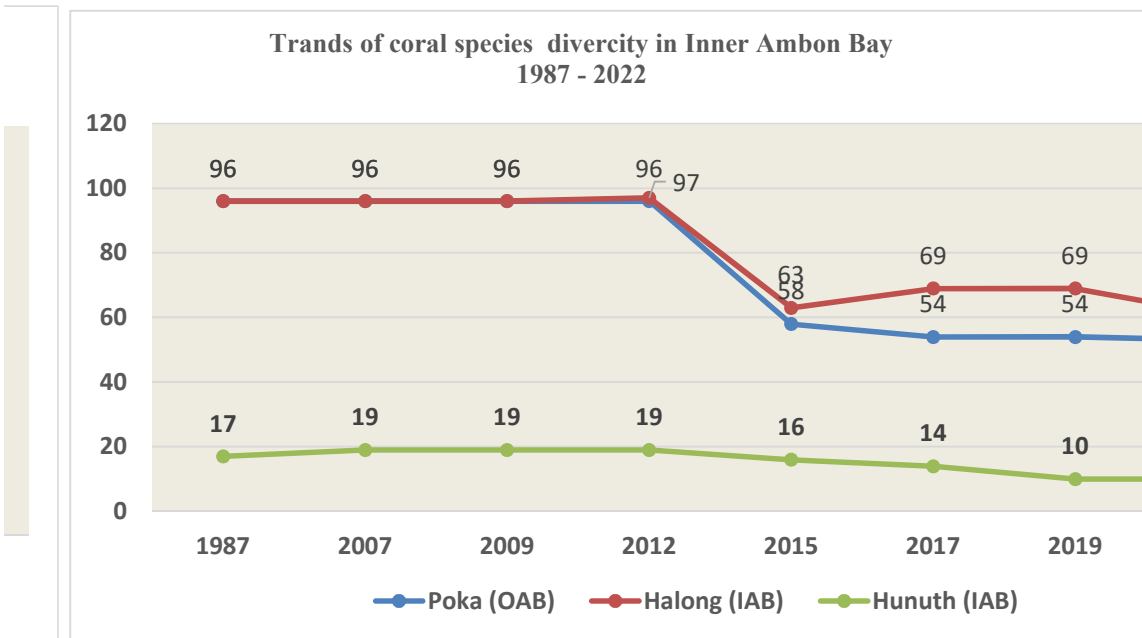
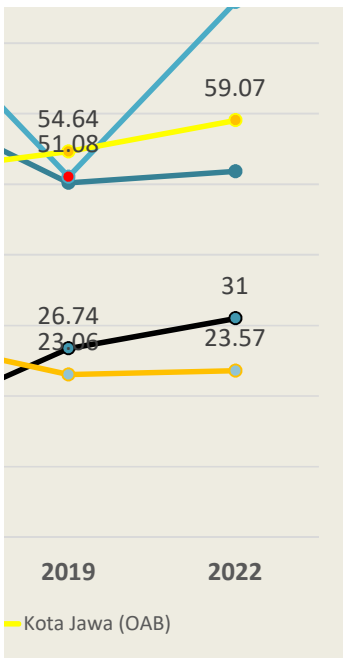


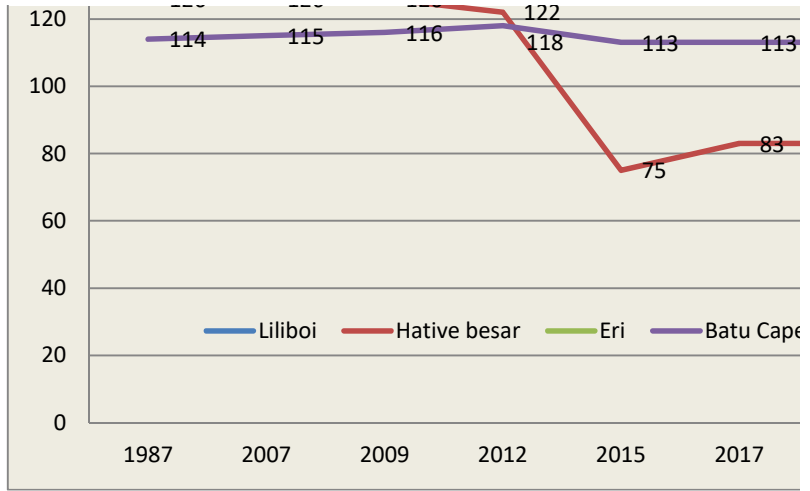
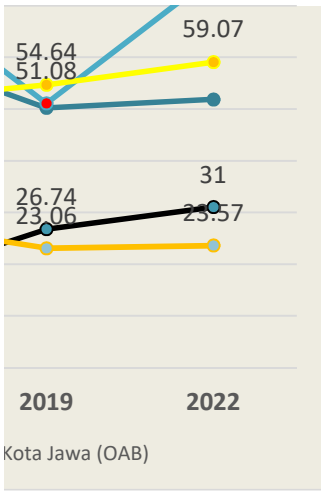
$$PC = \frac{\text{Panjang Total Suatu katagori Biota}}{\text{Panjang tali transek}} \times 100$$

Poka (OAB)
 Halong (IAB)
 Hunuth (IAB)

2019	2022	
50.2	51.83	-25.13
26.74	31	-28.41
51.08	75.8	-0.79
23.06	23.57	3.60
54.64	59.07	-6.68



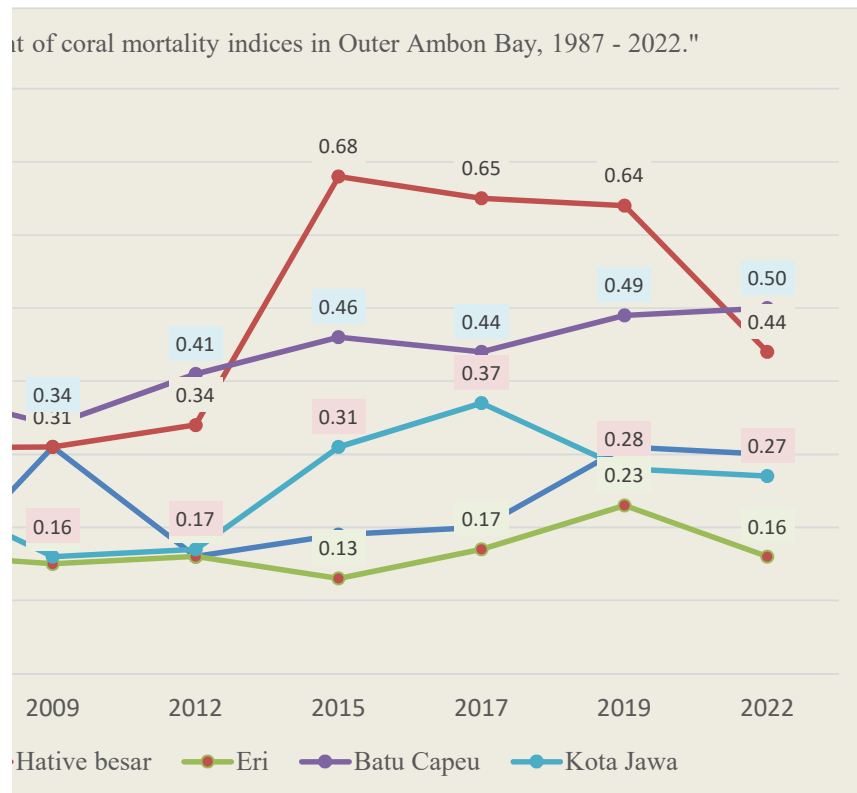


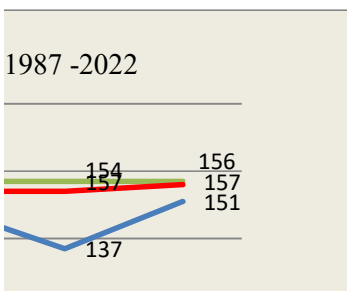
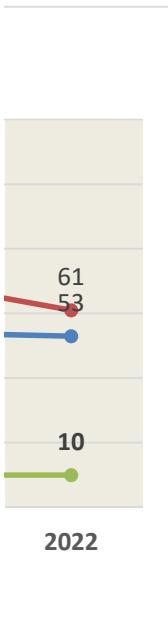
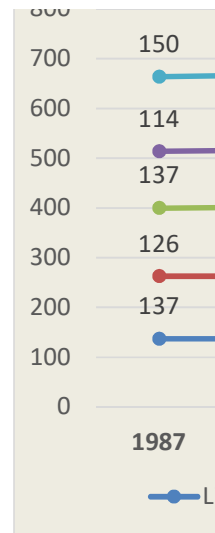


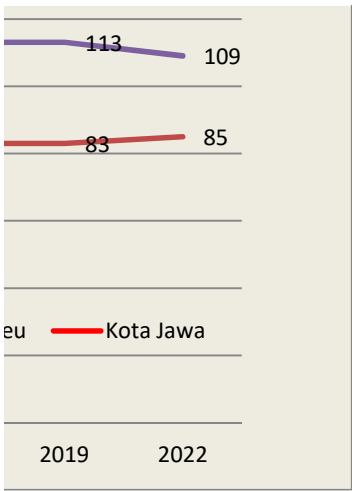
1987	2007	2009	2012	2015	2017	2019	2022
0.21	0.10	0.31	0.16	0.19	0.20	0.31	0.30
0.27	0.31	0.31	0.34	0.68	0.65	0.64	0.44
0.15	0.16	0.15	0.16	0.13	0.17	0.23	0.16
0.46	0.39	0.34	0.41	0.46	0.44	0.49	0.50
0.22	0.25	0.16	0.17	0.31	0.37	0.28	0.27

1987	2007	2009	2012	2015	2017	2019	2022
0.23	0.10	0.16	0.24	0.35	0.43	0.57	0.60
0.26	0.32	0.33	0.34	0.62	0.63	0.63	0.63
0.20	0.17	0.47	0.47	0.49	0.52	0.57	0.60

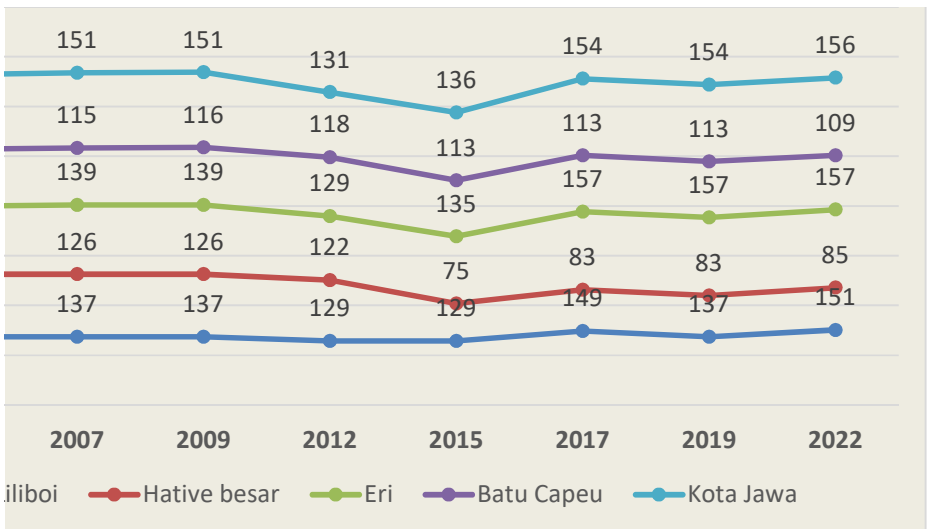
Figure 1. "Trend of coral mortality indices in Outer Ambon Bay, 1987 - 2022."







Track the development of coral mortality index in outer Ambon Bay,
1987 - 2022.

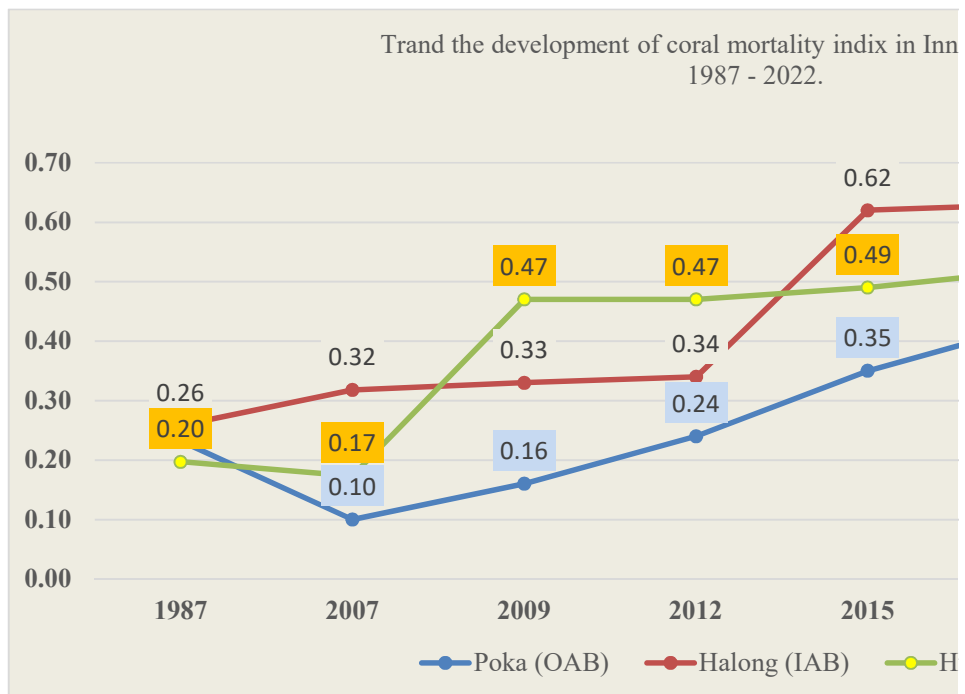


Indek Mortalitas

	1987	2007	2009	2012	2015	2017	2019
<i>Liliboi</i>	0.65	0.12	0.05	0.02	0.32	0.20	0.34
Hative besar	0.62	0.31	0.08	0.17	0.16	0.65	0.64
Eri	0.67	0.16	0.04	0.00	0.37	0.07	0.35
Batu Capeu	0.62	0.44	0.15	0.50	0.21	0.37	0.67
Kota Jawa	0.69	0.25	0.07	0.13	0.26	0.37	0.28
Poka (OAB)	0.78	0.10	0.02	0.13	0.19	0.82	0.74
Halong (IAB)	0.57	0.32	0.13	0.34	0.13	0.81	0.54
Hunuth (IAB)	0.35	0.19	0.37	0.39	0.42	0.52	0.56

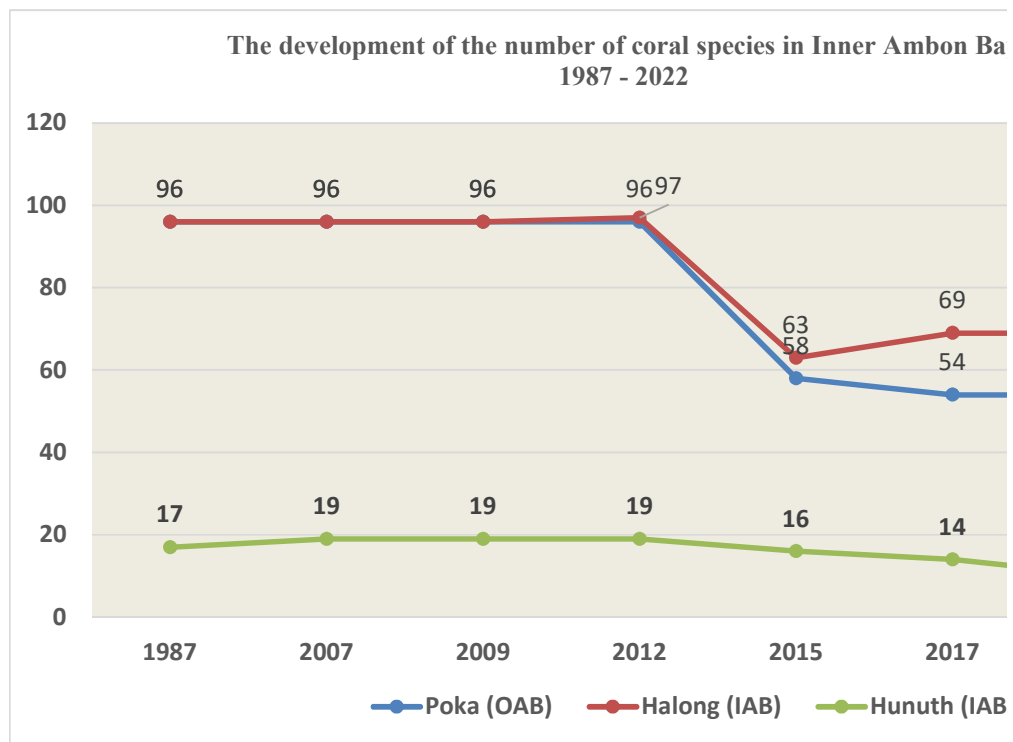
Halong	0.57	0.09	0.13	0.34	0.49	0.54	0.81
Poka	0.78	0.02	0.11	0.13	0.19	0.46	0.74

	1987	2007	2009	2012	2015	2017	2019
Poka (OAB)	0.23	0.10	0.16	0.24	0.35	0.43	0.57
Halong (IAB)	0.26	0.32	0.33	0.34	0.62	0.63	0.63
Hunuth (IAB)	0.20	0.17	0.47	0.47	0.49	0.52	0.57



	1987	2007	2009	2012	2015	2017	2019
Liliboi	137	137	137	129	129	149	137
Hative besar	126	126	126	122	75	83	83
Eri	137	139	139	129	135	157	157
Batu Capeu	114	115	116	118	113	113	113
Kota Jawa	150	151	151	131	136	154	154

	1987	2007	2009	2012	2015	2017	2019
Poka (OAB)	96	96	96	96	58	54	54
Halong (IAB)	96	96	96	97	63	69	69
Hunuth (IAB)	17	19	19	19	16	14	10



2022

0.21 0.24 rendah - baik
0.05 0.34 rendah - baik
0.04 0.21 rendah - baik
0.23 0.40 rendah - baik
0.20 0.28 rendah - baik
0.46 0.29 rendah - ekselen
0.49 rendah - ekselen
0.78 rendah - ekselen

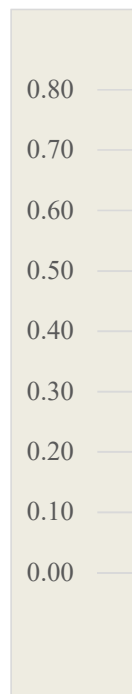
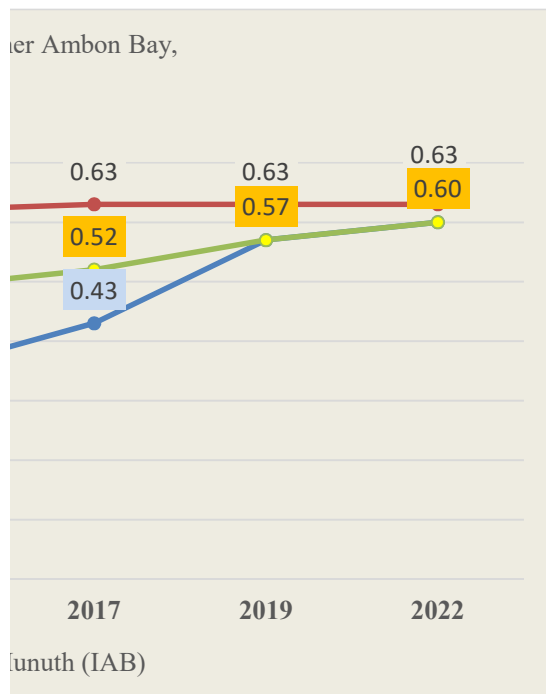
catagory 1 (Poor) 0.0 - 0.249
catagory 2 (Fair) 0.25 - 0.449
catagory 3 (Good) 0.50 - 0.749
category Exellent 0.75 - 1

0.82

0.82

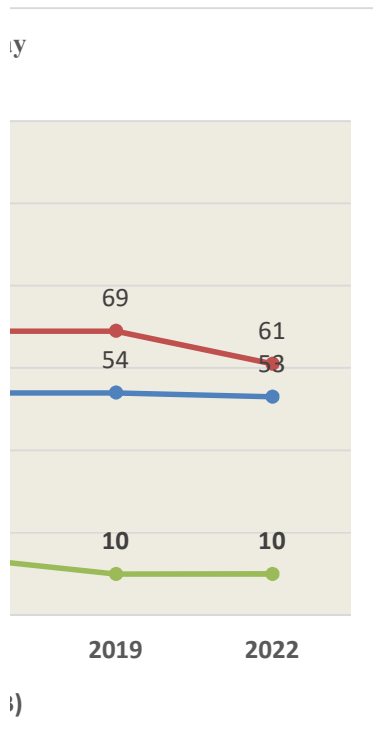
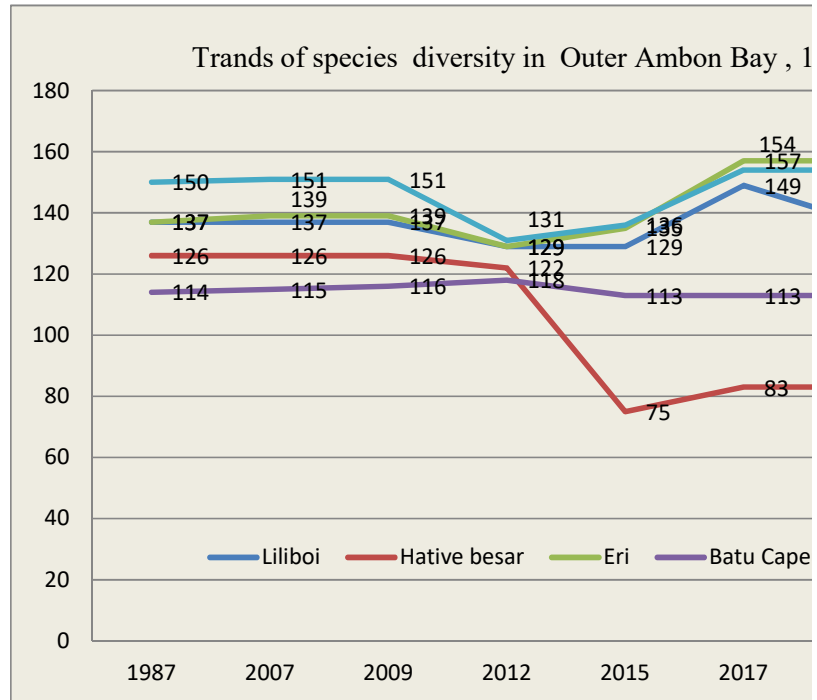
2022

0.60 0.34 0.34
0.63 0.47 0.47
0.60 0.44 0.44
0.41



2022 -35
 151 -14
 85 41
 157 -20
 109 5
 156 -6

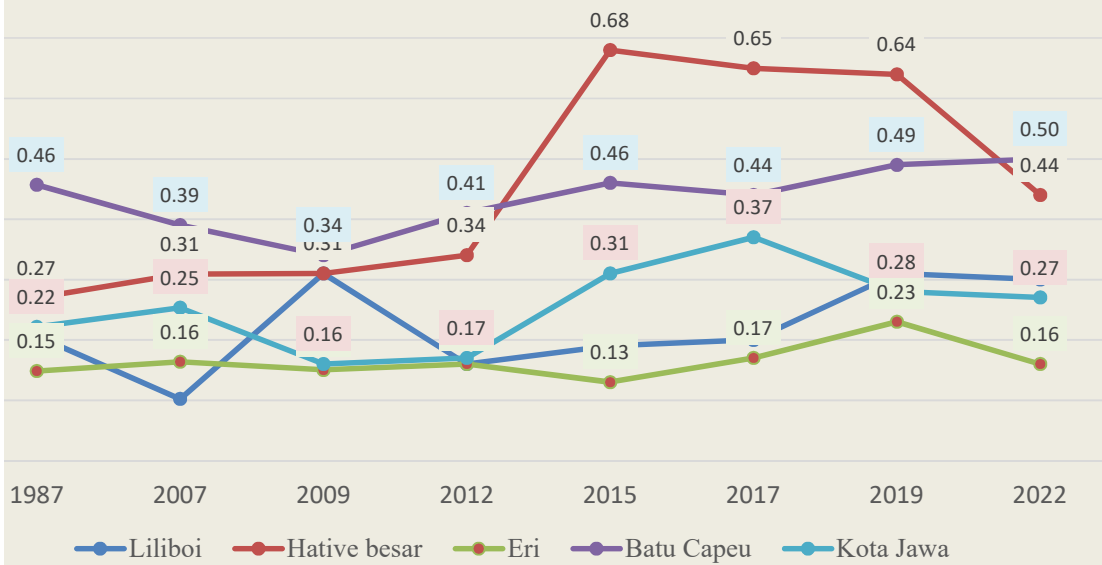
2022 43
 53 43
 61 35
 10 7



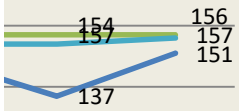
IAB	Value
60.7	7
49.23	35
57.12	47
55.7	30

j)

Trands of coral mortality index in Outer Ambon Bay, 1987 - 2022."



987 -2022



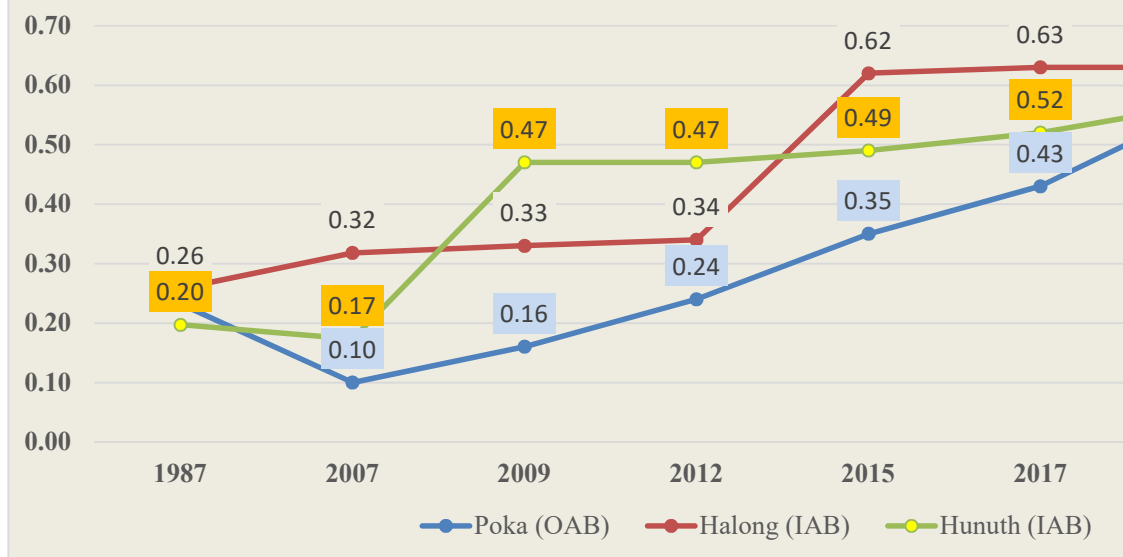
u Kota Jawa

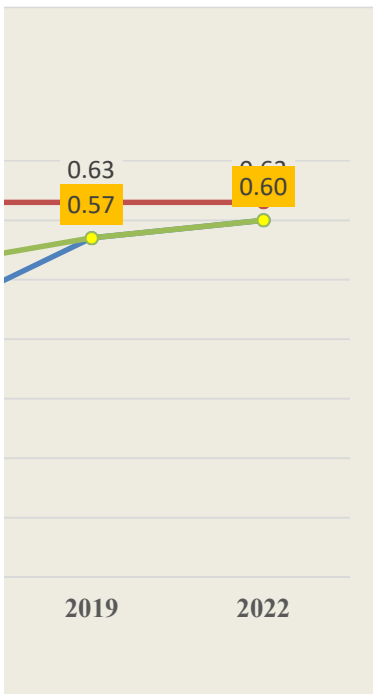
2019 2022

OAB

3.6	5
25.13	14
28.41	41
0.79	20
6.68	6
12.922	17.2

Trends of coral mortality index in Inner Ambon Bay, 1987 - 2022.





Reef Site Parmal Total Species

	Total Species
Liliboi	151
Hative besar	85
Eri	157
Batu Capeu	109
Kota Jawa	156
Poka	53
Halong	61
Hunuth	10

2022

%Component benthic transec result

HC/LF	DC/DCA	Algae	OT	Abiotic	
51.83	22.9	12.5	16.8	4.97	
31	24.67	6.93	21.13	39.27	
75.8	14.5	6.3	3.9	12.2	
23.57	24.03	9.9	27.07	32.43	
59.07	21.87	2.5	2.4	21.17	
24.1	32.98	22.71	12.78	21.43	
16.5	28.45	5.37	4.57	46.67	
7	10.33	6.15	11.29	40.23	

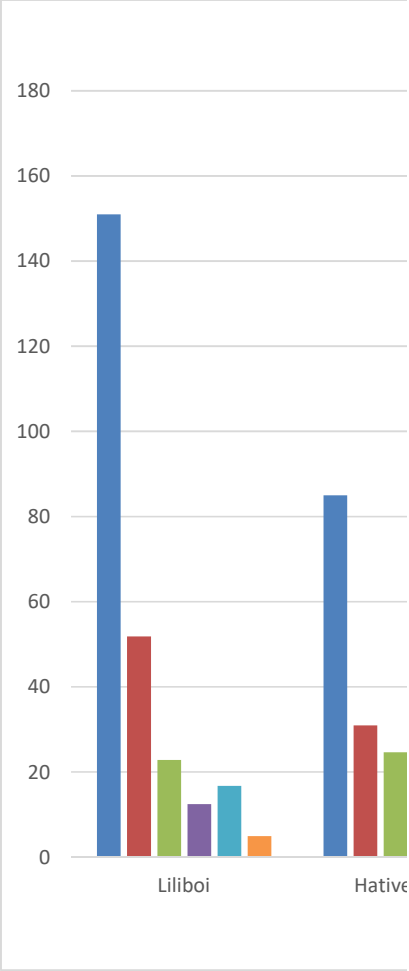
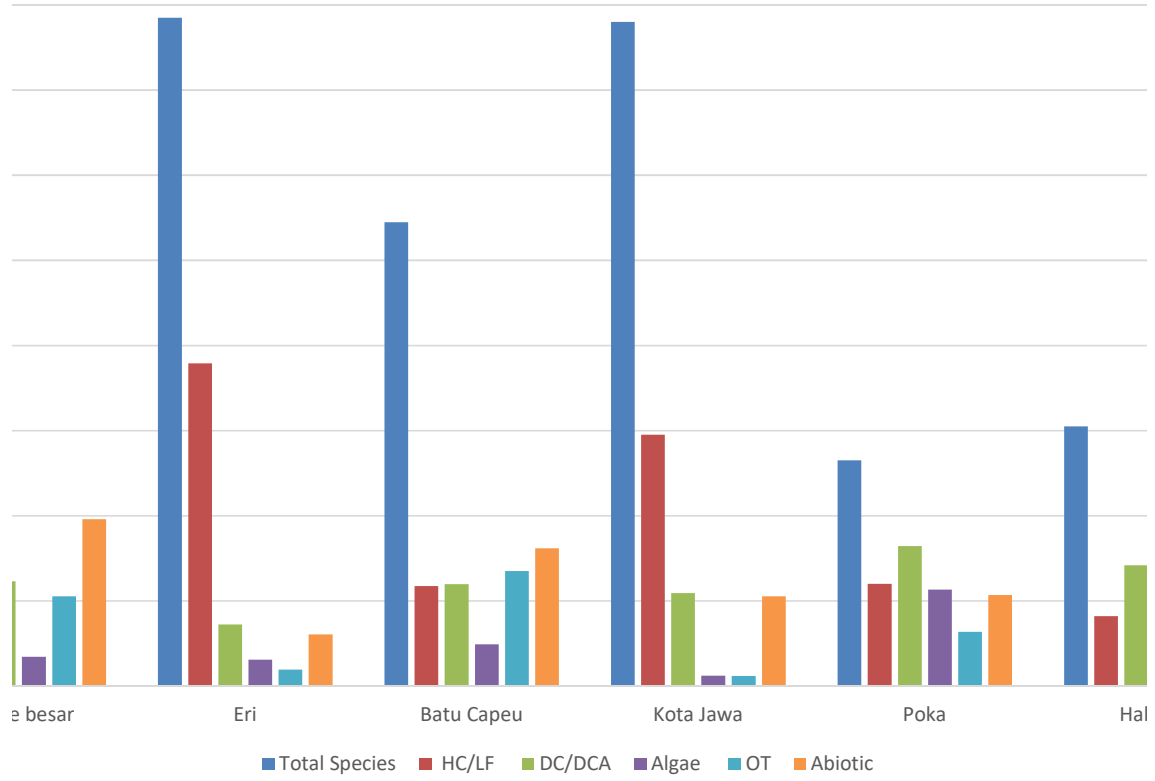
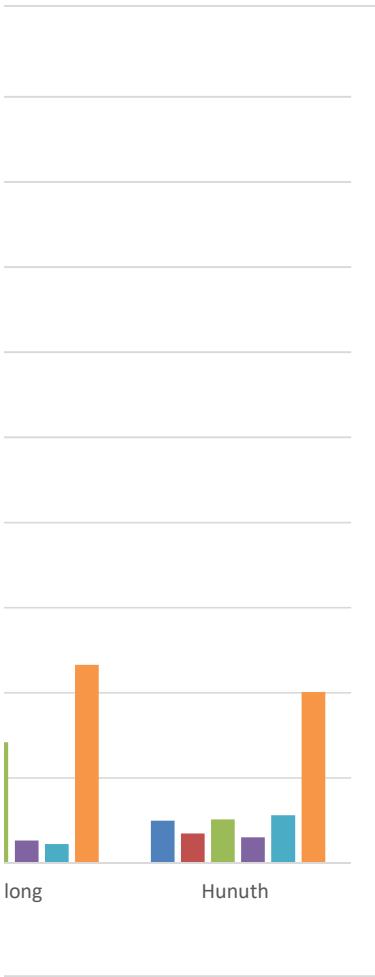


Chart Title





Lokasi Penelitian (Parmanet transek)	Persentase Tutupan					
	Tahun					
	1987	2007	2009	2012	2015	2017
Liliboi (TAL)	69.23	41.77	41.27	48.33	60.13	61.8
Hative besar (TAL)	43.3	22.4	32.5	15.63	14.1	16.15
Eri (TAL)	76.4	51.1	51.4	61.33	78.7	81.84
Batu Capeu (TAL)	22.75	13.87	17.6	13.83	30.37	33.21
Kota Jawa (TAL)	63.3	53.07	57.43	58.97	48.73	51.57
Poka (TAL)	56.2	62.63	65.47	59	11.1	12.18
Halong (TAD)	32.5	42.9	39.7	39.93	9.5	10.21
Hunuth (TAD)	23.1	13.1	9.6	15.43	8.1	10.44

2019	
45.2	
14.74	
51.08	
11.06	
54.64	
19.3	
17.5	
3.12	

ULC Persentase tutu Indeks Mortalitas (IM)

2003	2007	2007
2006	2009	2009
2009	2012	2012
2012	2015	2015
2015	2017	2017
2017	2019	2019
2020	2022	2022

Kekayaan Jenis	Lokasi
2007	Hunut
2009	Halong
2012	Poka
2015	Kota jawa
2017	HT Besar
2019	Eri
2022	BT Capeu Liliboi