

DAFTAR PUSTAKA

- Aji, L, P. 2011. A Review of Pearl Oyster (*Pinctada maxima*) Culture in General. Jurnal Sainstek Perikanan Vol.6 , No 2, 84-99
- Anggorowati DA. 2014. "Community structure of crustacean fauna at the intertidal zone of west Lombok". Jurnal Zoologi Indonesia. 23(2): 92-100.
- Cahn , A.R. , 1949 . Pearl Culture in Japan . United States Department of the Interior . Fishery Leaflet 357, Fish and Wildlife Service, pp. 51–58.
- Chinh , N. , 2001. "Harmful effects of the two pilate molluscan species *Cymatium pileare* and *Linatella caudata* on the culture of pearl oysters in Vung Ro sea water", Phu Yen, Viet Nam . J. Shellfish Res. 20 , 1309 – 1310.
- Crossland , C., 1957. "The cultivation of the mother-of-pearl oyster in the Red Sea" . Aust. J. Mar. Freshw. Res. 8 , 111 – 136 .
- Dharmaraj, S., Chellam, A., Velayudhan, T.S., 1987. "Biofouling, boring and predation of pearl oysters. In: Alagarwami, K. (Ed.), Pearl Culture" . CMFRI Bulletin, 39, pp. 92–97.
- Doroudi , M.S. , 1996 . Infestation of pearl oysters by boring and fouling organisms in the northern Persian Gulf . Indian J. Mar. Sci. 25 , 168 – 169, Springer-Verlag, Tokyo .
- Franklin, J. 2015. "First record of three tritons (Gastropoda: Tonnoidea: Ranellidae) from the Andaman Islands India" Andaman and Nicobar Centre for Ocean Science and Technology, ESSO-National Institute of Ocean Technology, Port Blair 744103, India.
- Gervis, M. H. and N. A. Sims. 1992. "The biology and culture of pearl oyster (Bivalve: Pteriidae)". Manila (Philippines).
- Govan, H. 1995. "Cymatium muricinum and other ranellid gastropods: major predators of cultured tridacnid clams". International Center for Living Aquatic Resources Management, Manila, 136 pp.
- Hamid A, Wardiatno Y, Irawati N. 2019. Biological aspects of genus *Thalmita* Latreille, 1829 (Decapoda: Portunidae) in Lasongko Bay, Southeast Sulawesi, Indonesia. Aquaculture, Aquarium, Conservation and Legislation. 12(4): 1335-1348.
- Hamzah M.S & Bisman Nababan., 2009. "Studi Pertumbuhan Dan Kelangsungan Hidup Anakan Tiram mutiara (*Pinctada maxima*) Pada Kedalaman Berbeda Di Teluk Kapontori, Pulau Buton". Makalah dipresentasikan dalam Seminar Nasional, Perhimpunan Biologi Indonesia XIX, pada Tgl. 9-10 Juli 2008 di Univ. Hasanuddin, Makasar
- Hamzah, A. S. 2016. Perkembangan dan Kelangsungan Hidup Larva Tiram mutiara (*Pinctada maxima*) pada Kondisi Suhu yang Berbeda. SKRIPSI. Fakultas Perikanan dan Ilmu Kelautan. Universitas Halu Oleo Kendari.
- Humphrey, J.D., Norton, J.H., Jones, J.B., Barton, M.A., Connell, M.T., Shelley, C.C., Creeper, J.H., 1998. Pearl Oyster (*Pinctada maxima*) Aquaculture : Health Survey of Northern Territory, Western Australia and

- Queensland pearl Oyster Beds and Farms. Project Report 94/079. Fisheries Research and Development Corporation, 108 pp.
- Humphrey, Jhon D. 2008. "Disease and Predation" Elsevier BV. Chapter 11. 429
- Jamilah (2015) 'Analisis hidro-oseanografi untuk budidaya tiram mutiara di perairan Baubau', J. Biotek, 3(2), pp. 92–105.
- Keputusan Menteri Negara Lingkungan Hidup Nomor 51 Tahun 2004, Baku mutu Air Laut Untuk Biota Laut.
- Kotta R. 2016. "Pengaruh Kedalaman Terhadap Kelangsungan Hidup (Survival Rate) Benih Tiram Mutiara (*Pinctada maxima*) Stadia Spat". jurnal Ilmiah agribisnis dan Perikanan (agrikan UMMU-Ternate). Volume 9 Nomor 1.
- Krebs, C. J. 1989. Ecological Methodology. Harper Collins. New York.
- Laidlaw, S. (2020) "Biologydictionary.net Editors. "Triggerfish." Biology Dictionary, Biologydictionary.net, 16 Sep. 2020,
- Maleva. (2012). "Cara Pengembangbiakan Ikan Ayam-ayam". Yogyakarta : kanisius.
- Mulyanto. (1987). Teknik Budidaya Tiram Mutiara di Indonesia. Direktorat Jendral perikanan
- Norman CP. 1996. "Reproduction Biology and Evidence For Hard-Female Mating In The Brachyuran Crab *Thalamita* sima (Portunidae)". Journal of Crustacean Biology. 16(6): 656-662.
- Pit , J.H. , Southgate , P.C. , 2003 . Fouling And Predation; How Do They Affect Growth and Survival of The Blacklip Pearl Oyster, *Pinctada Margaritifera* , During Nursery Culture? Aquacult. Int. 11 , 545 – 555.
- Roding, P. F. 1798. "Museum Boltenianum sive Catalogus cimeliorum e tribus regnis naturae quae olim collegerat" Joa, Fried, Bolten, Hamburg. 2. 1-8: 199 pp.
- Sawusdee A, Songrak A. 2009. "Population dynamics and stock assessment of blue swimming crab (*Portunus pelagicus* linnaeus, 1758) in the coastal area of trangprovince," Thailand. Journal Science and Technology. 6(2): 189-202.
- Southgate P.C. and Beer A.C. 1997. "Hatchery and early nursery culture of the blacklip pearl oyster (*Pinctada margaritifera* L.)". J. Shellfish Res. 16 (2): 561–567
- Southgate, P. C. & J. S. Lucas, editors. 2008. *The pearl oyster. Elsevier, Amsterdam.*
- Sutaman, 1993. "Tiram mutiara, Teknik Budidaya dan Proses Pembuatan Mutiara. Penerbit Kasinus". Yogyakarta.
- Taufik, N. *et all.* 2007. "Pertumbuhan Tiram Mutiara (*Pinctada maxima*) pada Kepadatan Berbeda", Ilmu Kelautan, 12(1), pp. 31–38.
- Tomatala, P. 2014 'Effectiveness of using frame net in spacing process of pearl oyster seeds, *Pinctada maxima*', Budidaya Perairan, 2(1), pp. 1–6.
- Wada, K.T., 1991. The pearl oyster *Pinctada fucata* . In: Menzel., W. (Ed.), Estuarine and Marine Bivalve Mollusk Culture , pp. 246–249 .
- Winanto, T. 2004. Memproduksi benih tiram mutiara. Jakarta: Penebar Swadaya.

LAMPIRAN

Lampiran 1. Data predator tiram di umur 4, 8, dan 12 bulan diperairan Desa Liku.

NAMA PEREDATOR	UMUR 4 BULAN														
	S1			S2			S3			S4			S5		
	U1	U2	U3	U1	U2	U3	U1	U2	U3	U1	U2	U3	U1	U2	U3
<i>Monoplex piellaris</i>	0	1	0	0	0	1	0	1	1	1	2	2	2	1	1
<i>Thalamita sp</i>	2	3	2	2	3	2	4	2	2	2	1	2	3	2	2
<i>Petroscirtes sp.</i>	0	0	1	1	1	0	1	0	1	0	1	2	0	0	2

UMUR 8 BULAN															UMUR 12 BULAN															
S1			S2			S3			S4			S5			S1			S2			S3			S4			S5			
U1	U2	U3	U1	U2	U3	U1	U2	U3	U1	U2	U3	U1	U2	U3	U1	U2	U3	U1	U2	U3	U1	U2	U3	U1	U2	U3	U1	U2	U3	
0	1	2	1	1	0	0	1	0	1	2	0	0	1	1	1	1	0	1	0	1	1	0	0	0	1	0	0	0	1	1
2	1	1	0	2	2	2	1	2	1	1	3	1	2	1	0	1	1	0	0	0	1	1	0	1	0	0	0	0	1	
0	1	0	1	1	0	1	2	0	1	0	2	0	1	3	1	0	1	1	1	2	1	1	2	2	1	0	1	1	0	

Lampiran 2. Jumlah predator tiram diumur 4, 8, dan 12 bulan.

Nama Predator	Umur 4 Bulan	Umur 8 Bulan	Umur 12 Bulan
<i>Monoplex piellaris</i>	13	11	8
<i>Thalamita sp</i>	34	22	6
<i>Petroscirtes sp.</i>	10	13	15
Jumlah	57	46	29

Lampiran 3. Pentsentasi Kelimpahan Predator tiram diperairan Desa Liku

	Jumlah predator	Persentasi
<i>Monoplex piellaris</i>	32	24,2%
<i>Thalamita sp</i>	62	47,0%
<i>Petroscirtes sp.</i>	38	28,8%
Total		100%

Lampiran 4. Parameter lingkungan diperairan Desa Liku.

PARAMETER	ULANGAN			
	U1	U2	U3	Rata rata
Suhu ($^{\circ}\text{C}$)	28	29	29	28,66667
Salinitas (ppt)	33	33	32	32,66667
Arus (m/det)	0,0649	0,0719	0,0694	0,0687
Kedalaman (m)	20	20	20	20
Kekeruhan (NTU)	0,7	0,7	0,7	0,7

Lampiran 5. Hasil uji ANOVA Pengaruh umur tiram terhadap kelimpahan predator

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum	Between-Component Variance	
					Lower Bound	Upper Bound				
S1	4 Bulan	3	3.0000	1.00000	.57735	.5159	5.4841	2.00	4.00	
	8 Bulan	3	2.6667	.57735	.33333	1.2324	4.1009	2.00	3.00	
	12 Bulan	3	2.0000	.00000	.00000	2.0000	2.0000	2.00	2.00	
	Total	9	2.5556	.72648	.24216	1.9971	3.1140	2.00	4.00	
	Model	Fixed Effects		.66667	.22222	2.0118	3.0993			
	Random Effects			.29397	1.2907	3.8204				.11111
S2	4 Bulan	3	3.3333	.57735	.33333	1.8991	4.7676	3.00	4.00	
	8 Bulan	3	2.6667	1.15470	.66667	-.2018	5.5351	2.00	4.00	
	12 Bulan	3	2.0000	1.00000	.57735	-.4841	4.4841	1.00	3.00	
	Total	9	2.6667	1.00000	.33333	1.8980	3.4353	1.00	4.00	
	Model	Fixed Effects		.94281	.31427	1.8977	3.3557			
	Random Effects			.38490	1.0106	4.3228				.14815
S3	4 Bulan	3	4.0000	1.00000	.57735	1.5159	6.4841	3.00	5.00	
	8 Bulan	3	3.0000	1.00000	.57735	.5159	5.4841	2.00	4.00	
	12 Bulan	3	2.3333	.57735	.33333	.8991	3.7676	2.00	3.00	
	Total	9	3.1111	1.05409	.35136	2.3009	3.9214	2.00	5.00	
	Model	Fixed Effects		.88192	.29397	2.3918	3.8304			
	Random Effects			.48432	1.0272	5.1950				.44444
S4	4 Bulan	3	4.3333	1.52753	.88192	.5388	8.1279	3.00	6.00	
	8 Bulan	3	3.6667	1.15470	.66667	.7982	6.5351	3.00	5.00	
	12 Bulan	3	1.6667	1.52753	.88192	-2.1279	5.4612	.00	3.00	
	Total	9	3.2222	1.71594	.57198	1.9032	4.5412	.00	6.00	
	Model	Fixed Effects		1.41421	.47140	2.0687	4.3757			
	Random Effects			.80123	-.2252	6.6697				1.25926
S5	4 Bulan	3	4.3333	1.15470	.66667	1.4649	7.2018	3.00	5.00	
	8 Bulan	3	3.3333	2.08167	1.20185	-1.8378	8.5045	1.00	5.00	
	12 Bulan	3	1.6667	.57735	.33333	.2324	3.1009	1.00	2.00	
	Total	9	3.1111	1.69148	.56383	1.8109	4.4113	1.00	5.00	
	Model	Fixed Effects		1.41421	.47140	1.9576	4.2646			
	Random Effects			.77778	-.2354	6.4576				1.14815

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
S1	2.800	2	6	.138
S2	.857	2	6	.471
S3	.211	2	6	.816
S4	.133	2	6	.878
S5	3.167	2	6	.115

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
S1	Between Groups	1.556	2	.778	1.750	.252
	Within Groups	2.667	6	.444		
	Total	4.222	8			
S2	Between Groups	2.667	2	1.333	1.500	.296
	Within Groups	5.333	6	.889		
	Total	8.000	8			
S3	Between Groups	4.222	2	2.111	2.714	.145
	Within Groups	4.667	6	.778		
	Total	8.889	8			
S4	Between Groups	11.556	2	5.778	2.889	.132
	Within Groups	12.000	6	2.000		
	Total	23.556	8			
S5	Between Groups	10.889	2	5.444	2.722	.144
	Within Groups	12.000	6	2.000		
	Total	22.889	8			

Lampiran 6. Dokumentasi pengambilan data lapangan



Lampiran 7. Kondisi Lapangan





Lampiran 8. Pengambilan parameter oseanografi





Lampiran 9. CV Penulis**CURRICULUM VIATE****A. Data Pribadi**

1. Nama : Valentino Cesar Pageno
2. Tempat Tanggal Lahir : Kolaka, 14 Februari 2002
3. Alamat : Jl. Ahmad Mustin No. 15, Kab. Kolaka
4. Kewarganegaraan : Indonesia
5. No. Hp : 085145920922
6. E-mail : valentinoceasar013@gmail.com

B. Riwayat Pendidikan

1. SMAS Frater Makassar (2016-2019)
2. Jurusan Ilmu Kelautan Universitas Hasanuddin (2019-2024)

C. Pengalaman Organisasi

1. Kordinator Divisi Kesekretariatan Persekutuan Mahasiswa Kristen Ilmu Kelautan Universitas Hasanuddin Periode 2022-2023
2. Kordinator Dewan Pengawas Organisasi Persekutuan Mahasiswa Kristen Ilmu Kelautan Universitas Hasanuddin Periode 2023-2024
3. Anggota Divisi Peralatan Marine Science Diving Club Universitas Hasanuddin Periode 2022-2023

D. Pelatihan/Sertifikasi

1. Pelatihan dan Sertifikasi Selam Open Water Scuba Diver (A1) CMAS Tahun 2022
2. Pelatihan Eco Diver Reefcheck 2023