

DAFTAR PUSTAKA

- Adrim M, Hutomo M dan Suharti SR. 1991. Chaetodonoid Fish Community Structure and Its Relation to Reef Degradation at The Seribu Islands Reefs, Indonesia. Proceeding of Regional Symposium on Living Resources in Coastal Areas. Phillipine.
- Ahmad Dahlan, Jamaluddin Jompa, Amran Saru, A. Niartiningsih (2015). Supporting and Inhibiting Factors of the Management of Marine Conservation Area in Sulawesi. International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064
- Allen GR dan Steene R. 1996. Indo-Pacific Coral Reef Field Guide. Tropical Reef Research Publ. Perth, Western Australia. p. 257-350.
- Badrudin SR, Suharti, Yahmantoro dan Suprihanto I. 2003. Indeks Keanekaragaman Hayati Ikan Kepe-Kepe (Chaetodontidae) di Perairan Wakatobi, Sulawesi Tenggara. Jurnal Pendidikan Perikanan Indonesia 9 (7): 67-73. Edisi Sumberdaya dan Penangkapan.
- Bouchon-Navaro, Louis M dan Bouchon C. 1996. Trends in Fish Species Distribution in The West Indies. Proceeding of 8th International Coral Reef Symposium (I), Panama: 987-992.
- Choat JH. 1991. The Biology of Herbivorous Fishes on Coral Reef in The Ecology of Fishes on Coral Reefs, Sale PF (Eds). Department of Zoology University of New Hampshire Durham.
- Choat JH dan Bellwood DR. 1991. Reef Fishes: Their History and Evolution in The Ecology of Fishes on Coral Reefs, Sale PF (Eds). Department of Zoology University of New Hampshire Durham.
- Chabanet P, Palanibondrainy H, Amanieu M, Faure G dan Galzin R. 1997. Relationship between Coral Reef Substrate and Fish. Coral Reefs (16): 93-102.
- Dartnall AJ dan Jones M. 1986. A Manual of Survey Methods for Living Resources in Coastal Area: ASEAN-Australia Cooperative Program in Marine Science. Australian Institute of Marine Science.
- Diaz-Pulido G dan McCook LJ. 2008. Makroalgae (Seaweeds) in China, (ed). The State of The Great Barrier Reef. Great Barrier Reef Marine Park Authority, Townsville. http://www.gbrmpa.gov.au/corp_site/info_services/publications/sotr/downloads/SORR_Makroalgae.pdf. [11 Januari 2010].
- Djamali A dan Mubarak H. 1998. Sumberdaya Ikan Konsumsi Perairan Karang. Potensi dan Penyebaran Sumberdaya Ikan Laut di Perairan Indonesia, Komisi Nasional Pengkajian Stok Sumberdaya Ikan Laut. LIPI. Jakarta.

- English S, Wilkinson C dan Baker V. 1997. Survey Manual for Tropical Marine Resources, 2nd Edition. ASEAN – Australia Marine Science Project Living Coastal Resources. Australia.
- Fauzi, A. dan S. Anna. 2005. Pemodelan sumberdaya perikanan dan kelautan untuk analisis kebijakan. Jakarta: Gramedia Pustaka Utama. 343p
- Froese, R. 2006. Cube law, condition factor and weight-length relationships: History, meta-analysis and recommendations. *J. Appl. Ichthyol.* 22, 241–253. doi: 10.1111/j.1439-0426.2006.00805.x.
- Hixon, M.A. 1991. Predation as a Process Structuring Coral Reef Fish Communities. Dalam: Sale PF (Eds). *The Ecology of Fishes on Coral Reefs*. Academic Press. San Diego.
- Hoeksema B.W. (2007) Delineation of the Indo-Malayan Centre of Maximum Marine Biodiversity: The Coral Triangle. In: Renema W. (eds) Biogeography, Time, and Place: Distributions, Barriers, and Islands. Topics In Geobiology, vol 29. Springer, Dordrecht
- Husain AAA dan Arniati. 1996. Studi dan Evaluasi Tingkat Keanekaragaman Jenis Ikan Terumbu Karang di Perairan Pulau Samalona, Kecamatan Mariso, Ujung Pandang. Lembaga Penelitian Universitas Hasanuddin, Ujung Pandang.
- Hutomo M. 1986. Coral Reef Fish Community. Training Course in Coral Reef Research Methods and Management (2). SEAMEO-BIOTROP. Bogor.
- Hutomo M. 1987. Coral Reef Fish Resources and Their Relation to Reef Condition: Some Case Studies in Indonesian Waters. *Coral Reef Management in Southeast Asia*. Biotrop Spec. Publ. (29): 67-91.
- Hutomo M. 1993. Pengantar Studi Ekologi Komunitas Ikan Karang dan Metode Pengkajiannya. Puslitbang Oseanologi. LIPI. Jakarta.
- Jompa J dan McCook LJ. 2002. The Effects of Nutrient and Herbivory on Competition Between A Hard Coral (*Porites cylindrica*) and A Brown Alga (*Lobophora variegata*). *Limnol. Oceanogr.* 47 (2): 527-534.
- Jompa, J. (2010). Kondisi Ekosistem Perairan Kepulauan Spermonde: Keterkaitannya dengan Pemanfaatan Sumberdaya Laut di Kepulauan. Divisi Kelautan Pusat Kegiatan Penelitian. Universitas Hasanuddin. Makassar
- Kavanagh, P. 2001. Rapid appraisal of fisheries (RAFFISH) project. University of British Columbia, Fisheries Centre. 34p.
- Kvalvagnaes K. 1980. Ornamental Fish Trade in Indonesia. Field Report UNDP/FAO National Parka Development Project INS/78/061: 31.

- Ladrizabal S. 2007. Beyond The Refugium: A Makroalgal Primer. Reefkeeping Magazine Vol. 5. Issues 12. <http://www.reefkeeping.com>. [11 Januari 2010].
- Morais, RA, Depczynski, M, Fulton, C, et al. Severe coral loss shifts energetic dynamics on a coral reef. *Funct Ecol.* 2020; 34: 1501– 1512. <https://doi.org/10.1111/1365-2435.13568>
- Morrisey J. 1985. Primary Productivity of Coral Reef Benthic Makroalgae. Proceeding of The Fifth International Coral Reef Congress, Tahiti. Vol. 5.
- Nurdin N, Komatsu T, Rani C, Supriadi, Fakhriyyah S, Agus 2016. Coral reef destruction of small island in 44 years and destructive fishing in Spermonde Archipelago, Indonesia. IOP Conf. Ser. Earth Environ. Sci. 47: 012011
- Nybakken, J.W. 1993. Marine Biology: An Ecological Approach 3rd ed. 475 p.
- Pitcher, T.J. and D. Preikshot. 2001. Rapfish: A rapid appraisal technique to evaluate the sustainability status of fisheries. *Fisheries Research*, 49(3): 255 –270.
- Parenden, D., Jompa, J., and Rani, C. (2021). Condition of Hard Corals and Quality of the Turbid Waters in Spermonde Islands (Case Studies in Kayangan Island, Samalona Island and Kodingareng Keke Island). in IOP Conference Series: Earth and Environmental Science doi: 10.1088/1755-1315/921/1/012060.
- Podung, T. T., Roeroe, K. A., Paruntu, C. P., Ompi, M., Schaduw, J. N. W., and Rondonuwu, A. B. (2022). Coral Reef Conditions in Bahowo Waters Tongkaina, Sub District Bunaken, Manado North Sulawesi. *Jurnal Ilmiah PLATAK* 10. doi: 10.35800/jip.v10i1.37239.
- Reuter, H., Breckwoldt, A., Dohna, T., Ferse, S., Gärdes, A., Glaser, M., et al. (2022). “Coral reef social–ecological systems under pressure in Southern Sulawesi,” in *Science for the Protection of Indonesian Coastal Ecosystems (SPICE)* (Elsevier), 143–199. doi: 10.1016/B978-0-12-815050-4.00005-5.
- Rogers CS, Garrison G, Grober R, Hillis ZM dan Franke MA. 1994. Coral Reef Monitoring Manual for The Caribbean and Western Atlantic. Virgin Islands National Park. St. John. USVI 00830.
- Russ GR. 1991. Coral Reef Fisheries: Effects and Yield in The Ecology of Fishes on Coral Reefs in Sale PF (Eds). Department of Zoology University of New Hampshire Durham.
- Sale PF. 1991. Reef Fish Communities: Open Non-equilibrium Systems in The Ecology of Fishes on Coral Reefs. Academic Press Inc., San DiegoToronto. Pp. 564 – 598.

- Sawall Y, Jompa J, Litaay M, Maddusila A and Richter C. 2013. Coral recruitment and potential recovery of eutrophied and blast fishing impacted reefs in Spermonde Archipelago, Indonesia. *Marine Pollution Bulletin*: 74 374–82
- Setianingsih, A. (2010). Kajian Implementasi Pengelolaan Daerah Perlindungan Laut Di Desa Mattiro Deceng, Kabupaten Pangkep, Propinsi Sulawesi Selatan,IPB
- Sorokin YI. 1993. *Coral Reef Ecology*. Springer-Verlag. Berlin. Heidelberg. 465 pp.
- Strain, EMA, Edgar, GJ, Ceccarelli, D, Stuart-Smith, RD, Hosack, GR, Thomson, RJ. A global assessment of the direct and indirect benefits of marine protected areas for coral reef conservation. *Divers Distrib.* 2019; 25: 9– 20. <https://doi.org/10.1111/ddi.12838>
- Waode Siti Cahyani, Isdrajad Setyobudi, Ridwan Affandi (2018) kondisi dan Status Keberlanjutan Terumbu Karang Kawasan Konservasi Perairan Pulo Pasi Gusung, Selayar, *Jurnal Ilmu Dan Teknologi Kelautan Tropis* ISSN online :2620-309X
- Yusuf S, Jompa J (2012) First quantitative assessment of coral bleaching on Indonesian reefs. *Proceedings of The 12th International Coral Reef Symposium*, 9-13
- Yusuf S, Beger M, Citra A, Tassakka M A R, Brauwer M D E, Pricella A, Umar W, Limmon G V, Moore A M, Jompa J. 2021. Cross shelf gradients of scleractinian corals in the Spermonde Islands, South Sulawesi, Indonesia. *Biodiversitas* 22: 1415–1423
- T. Sancelme et al., Contrasting patterns in the abundance of fish communities targeted by fishers on two coral reefs in southern Mozambique. *African Journal of Marine Science*. 42, 95–107 (2020).

LAMPIRAN

A. Hasil analisis pengaruh tutupan substrat terhadap biomassa ikan terumbu karang

<i>Regression Statistics</i>	
Multiple R	0.15
R Square	0.02
Adjusted R Square	(0.07)
Standard Error	0.31
Observations	36.00

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	3.00	0.07	0.02	0.24	0.87
Residual	32.00	3.11	0.10		
Total	35.00	3.19			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	0.07	2.10	0.03	0.97	(4.21)	4.35
ALGAE %	0.08	0.11	0.71	0.48	(0.15)	0.31
CORAL %	0.22	0.43	0.50	0.62	(0.66)	1.09
ABIOTIC %	0.48	0.89	0.54	0.59	(1.33)	2.28

B. Hasil analisis pengaruh tutupan substrat terumbu karang terhadap kelimpahan ikan terumbu karang

<i>Regression Statistics</i>	
Multiple R	0.58
R Square	0.33
Adjusted R Square	0.27
Standard Error	0.22
Observations	36.00

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	3.00	0.80	0.27	5.34	0.004
Residual	32.00	1.59	0.05		
Total	35.00	2.39			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	1.27	1.50	0.84	0.41	(1.79)	4.33
ALGAE %	(0.01)	0.08	(0.13)	0.89	(0.17)	0.15
CORAL %	0.90	0.31	2.92	0.01	0.27	1.53
ABIOTIC %	0.96	0.63	1.52	0.14	(0.33)	2.25