

REFERENCES

- Alsaffar, Z., Pearman, J. K., Cúrdia, J., Ellis, J., Calleja, M. Ll., Ruiz-Compean, P., Roth, F., Villalobos, R., Jones, B. H., Morán, X. A. G., & Carvalho, S. (2020). The role of seagrass vegetation and local environmental conditions in shaping benthic bacterial and macroinvertebrate communities in a tropical coastal lagoon. *Scientific Reports*, *10*(1), 13550. <https://doi.org/10.1038/s41598-020-70318-1>
- Ambo-Rappe, R. (2016). Differences in Richness and Abundance of Species Assemblages in Tropical Seagrass Beds of Different Structural Complexity. *Journal of Environmental Science and Technology*, *9*(3), 246–256. <https://doi.org/10.3923/jest.2016.246.256>
- Ambo-Rappe, R., Nessa, M. N., Latuconsina, H., & Lajus, D. L. (2013). Relationship between the tropical seagrass bed characteristics and the structure of the associated fish community. *Open Journal of Ecology*, *03*(05), 331–342. <https://doi.org/10.4236/oje.2013.35038>
- Bell, J. J. (2008). The functional roles of marine sponges. *Estuarine, Coastal and Shelf Science*, *79*(3), 341–353. <https://doi.org/10.1016/j.ecss.2008.05.002>
- Bostrijm, C., & Bonsdorff, E. (1997). Community structure and spatial variation of benthic invertebrates associated with *Zosteru marina* (L.) beds in the northern Baltic Sea. *Journal of Sea Research*, 153–166.
- Brito, M. C., Martin, D., & N□ez, J. (2005). Polychaetes associated to a *Cymodocea nodosa* meadow in the Canary Islands: Assemblage structure, temporal variability and vertical distribution compared to other Mediterranean seagrass meadows. *Marine Biology*, *146*(3), 467–481. <https://doi.org/10.1007/s00227-004-1460-1>
- Chandra, H., Simbolon, D., Wiryawan, B., Iskandar, B. H., & Taurusman, A. A. (2017). *Development of coastal water monitoring technology in Wakatobi regency, Indonesia*. *9*(2).
- Clifton, J., Unsworth, R. K. F., Smith, D. J. (2010). *Marine Research and Conservation in the Coral Triangle No Index as per author*. Nova Science Publishers, Incorporated.
- Daudi, L. N., Uku, J. N., & De Troch, M. (2023). Effects of habitat complexity on the abundance and diversity of seagrass leaf meiofauna communities in tropical Kenyan seagrass meadows. *Aquatic Botany*, *187*, 103651. <https://doi.org/10.1016/j.aquabot.2023.103651>
- De Troch, M., Fiers, F., & Vincx, M. (2001). Alpha and beta diversity of harpacticoid copepods in a tropical seagrass bed: The relation between diversity and species' distribution. *Marine Ecology Progress Series*, *215*, 225–236. <https://doi.org/10.3354/meps215225>
- ristiwady, T., Liao, J., Ch. Makatipu, P., Yin, X., Hu, W., Koagouw, 3. (2016). Food sources and trophic structure of fishes and benthic brates in a tropical seagrass meadow revealed by stable isotope. *Marine Biology Research*, *12*(7), 748–757. <https://doi.org/10.1080/17451000.2016.1183791>



- Edgar, G. J. (1990). The influence of plant structure on the species richness, biomass and secondary production of macrofaunal assemblages associated with Western Australian seagrass beds. *Journal of Experimental Marine Biology and Ecology*, 137(3), 215–240. [https://doi.org/10.1016/0022-0981\(90\)90186-G](https://doi.org/10.1016/0022-0981(90)90186-G)
- Gardner, W., Mulvey, E. P., & Shaw, E. C. (1995). Regression analyses of counts and rates: Poisson, overdispersed Poisson, and negative binomial models. *Psychological Bulletin*, 118(3), 392–404. <https://doi.org/10.1037/0033-2909.118.3.392>
- Gessner, F. (1971). C. den Hartog: The sea-grasses of the world. Amsterdam, London: North-Holland Publishing Company 1970. 275 pp. Hfl. 55.—. *Internationale Revue Der Gesamten Hydrobiologie Und Hydrographie*, 56(1), 141–141. <https://doi.org/10.1002/iroh.19710560139>
- Gullström, M., Bodin, M., Nilsson, P., & Öhman, M. (2008). Seagrass structural complexity and landscape configuration as determinants of tropical fish assemblage composition. *Marine Ecology Progress Series*, 363, 241–255. <https://doi.org/10.3354/meps07427>
- Haapkylä, J., Seymour, A. S., Trebilco, J., & Smith, D. (2007). Coral disease prevalence and coral health in the Wakatobi Marine Park, south-east Sulawesi, Indonesia. *Journal of the Marine Biological Association of the United Kingdom*, 87(2), 403–414. <https://doi.org/10.1017/S0025315407055828>
- Hamilton, B., Fairweather, P., & McDonald, B. (2012). One species of seagrass cannot act as a surrogate for others in relation to providing habitat for other taxa. *Marine Ecology Progress Series*, 456, 43–51. <https://doi.org/10.3354/meps09647>
- Hauer, F. R., & Resh, V. H. (2007). Macroinvertebrates. In *Methods in Stream Ecology* (pp. 435–454). Elsevier. <https://doi.org/10.1016/B978-012332908-0.50028-0>
- Heck, K. L., & Orth, R. J. (2006). Predation in Seagrass Beds. In *Seagrasses: Biology, Ecology and Conservation* (pp. 537–550). Springer-Verlag. https://doi.org/10.1007/1-4020-2983-7_22
- Jacobsen, D., Cressa, C., Mathooko, J. M., & Dudgeon, D. (2008). Macroinvertebrates: Composition, Life Histories and Production. In *Tropical Stream Ecology* (pp. 65–105). Elsevier. <https://doi.org/10.1016/B978-012088449-0.50006-6>
- Johan, H., Chinta, T., Pascin, O., Gullström, M., Imbert, J., Buljore, D., & Young, K. (2025). Seagrass meadows in lagoons of Mauritius: Species composition, structural complexity and spatial distribution. *Regional Studies in Marine Science*, 89, 104387. <https://doi.org/10.1016/j.rsma.2025.104387>
- Kuriandewa, T. E., Kiswara, W., Hutomo, M., & Soemodihardjo, S. (2003). Seagrasses of Indonesia. In *World Atlas of Seagrasses*. University of California Press.
- Kurniawan, F., Digdo, A. A., Darus, R. F., Anggraini, N. P., Ismet, M. S., Wicaksono, P., & Nakaoka, M. (2024). First record of *Ruppia brevipedunculata* in Indonesia. *Journal of Applied Phycology*, 195, 103806. <https://doi.org/10.1016/j.aquabot.2024.103806>
- Kurniawan, F., & Nakaoka, M. (2014). Benthic macrofaunal assemblages in seagrass meadows of the southern Philippines: Variation among communities dominated by different seagrass species. *Journal of Experimental Marine Biology and Ecology*, 457, 71–80. <https://doi.org/10.1016/j.jembe.2014.04.006>



- Magurran, A. E. (2005). *Measuring Biological Diversity*. Blackwell Publishing.
- McCloskey, R. M., & Unsworth, R. K. F. (2015). Decreasing seagrass density negatively influences associated fauna. *PeerJ*, 3, e1053. <https://doi.org/10.7717/peerj.1053>
- McSkimming, C., Tanner, J. E., Russell, B. D., & Connell, S. D. (2015). Compensation of nutrient pollution by herbivores in seagrass meadows. *Journal of Experimental Marine Biology and Ecology*, 471, 112–118. <https://doi.org/10.1016/j.jembe.2015.05.018>
- Nakaoka, M. (2005). Plant–animal interactions in seagrass beds: Ongoing and future challenges for understanding population and community dynamics. *Population Ecology*, 47(3), 167–177. <https://doi.org/10.1007/s10144-005-0226-z>
- Nakaoka, M., Toyohara, T., & Matsumasa, M. (2001). Seasonal and Between-Substrate Variation in Mobile Epifaunal Community in a Multispecific Seagrass Bed of Otsuchi Bay, Japan. *Marine Ecology*, 22(4), 379–395. <https://doi.org/10.1046/j.1439-0485.2001.01726.x>
- Orth, R. J., Heck, K. L., & Van Montfrans, J. (1984). Faunal Communities in Seagrass Beds: A Review of the Influence of Plant Structure and Prey Characteristics on Predator: Prey Relationships. *Estuaries*, 7(4), 339. <https://doi.org/10.2307/1351618>
- Orth, R. J., & Van Montfrans, J. (1984). Epiphyte-seagrass relationships with an emphasis on the role of micrograzing: A review. *Aquatic Botany*, 18(1–2), 43–69. [https://doi.org/10.1016/0304-3770\(84\)90080-9](https://doi.org/10.1016/0304-3770(84)90080-9)
- Pielou, E. C. (1966). The measurement of diversity in different types of biological collections. *Journal of Theoretical Biology*, 13, 131–144. [https://doi.org/10.1016/0022-5193\(66\)90013-0](https://doi.org/10.1016/0022-5193(66)90013-0)
- Priosambodo, D. (2007). Sebaran Jenis-Jenis Lamun Di Sulawesi Selatan. *Jurnal Bionature*, 8(1).
- R Core Team. (2024). *R: A language and environment for statistical computing* (Version 4.3.3) [Computer software]. R Foundation for Statistical Computing.
- Rani, C., Basri, M., Bahar, D. Y., & Yolanda, M. (2020). Karakteristik Morfologi Lamun *Thalassodendron ciliatum* (Forsskall) Hartog 1970 (Kelas: Magnoliopsida, Famili: Cymodoceaceae) Berdasarkan Tipe Substrat di Perairan Pantai Timur Kabupaten Bulukumba. *Jurnal Kelautan Tropis*, 23(1), 85. <https://doi.org/10.14710/jkt.v23i1.6090>
- Rao, R., Alcoverro, T., Kongari, P., Yoayela, S., Arthur, R., & D'Souza, E. (2023). Tolerance to aerial exposure influences distributional patterns in multi-species intertidal seagrass meadows. *Marine Environmental Research*, 191, 106146. <https://doi.org/10.1016/j.marenvres.2023.106146>
- Reich, S. (Ed.). (2014). *Seagrass mollusks as a model group for paleoecological and / studies: [Proefschrift]*. Utrecht University, Faculty of Geosciences, of Earth Sciences.
- pe, R., Mashoreng, S., Kadir, N. N., Zakaria, M. H., & Kiswara, W. *distribution record of seagrass Ruppia brevipedunculata from vation ponds in South Kalimantan, Indonesia.*



- Setiawan, E., Chodiantoro, M. R., Insany, G. F., Subagio, I. B., Dewi, N. K., & Muzaki, F. K. (2021). Short Communication: Diversity of sponges associated in seagrass meadows at coastal area of Pacitan District, East Java, Indonesia. *Biodiversitas Journal of Biological Diversity*, 22(8). <https://doi.org/10.13057/biodiv/d220803>
- Shannon, C. E. (1948). A Mathematical Theory of Communication. *Bell System Technical Journal*, 27(3), 379–423. <https://doi.org/10.1002/j.1538-7305.1948.tb01338.x>
- Short, F., Carruthers, T., Dennison, W., & Waycott, M. (2007). Global seagrass distribution and diversity: A bioregional model. *Journal of Experimental Marine Biology and Ecology*, 350(1–2), 3–20. <https://doi.org/10.1016/j.jembe.2007.06.012>
- Short, F. T., Polidoro, B., Livingstone, S. R., Carpenter, K. E., Bandeira, S., Bujang, J. S., Calumpang, H. P., Carruthers, T. J. B., Coles, R. G., Dennison, W. C., Erftemeijer, P. L. A., Fortes, M. D., Freeman, A. S., Jagtap, T. G., Kamal, A. H. M., Kendrick, G. A., Judson Kenworthy, W., La Nafie, Y. A., Nasution, I. M., ... Ziemann, J. C. (2011). Extinction risk assessment of the world's seagrass species. *Biological Conservation*, 144(7), 1961–1971. <https://doi.org/10.1016/j.biocon.2011.04.010>
- Short, F. T., & Wyllie-Echeverria, S. (1996). Natural and human-induced disturbance of seagrasses. *Environmental Conservation*, 23(1), 17–27. <https://doi.org/10.1017/S0376892900038212>
- Sjafrie, N. D. M., Rahmadi, P., Kurniawan, F., Triyono, & Supriyadi, I. H. (2021). Socio-Ecological System perspective of seagrass ecosystem in Wakatobi. *IOP Conference Series: Earth and Environmental Science*, 744(1), 012078. <https://doi.org/10.1088/1755-1315/744/1/012078>
- Smith, R. S., Johnston, E. L., & Clark, G. F. (2014). The Role of Habitat Complexity in Community Development Is Mediated by Resource Availability. *PLoS ONE*, 9(7), e102920. <https://doi.org/10.1371/journal.pone.0102920>
- Somerfield, P., Yodnarasri, S., & Aryuthaka, C. (2002). Relationships between seagrass biodiversity and infaunal communities: Implications for studies of biodiversity effects. *Marine Ecology Progress Series*, 237, 97–109. <https://doi.org/10.3354/meps237097>
- Supriyadi, I. H., Iswari, M. Y., Rahmawati, S., Riniatsih, I., Suyarso, S., & Hafizt, M. (2024). Seagrass Ecosystems in Eastern Indonesia: Status, Diversity, and Management Challenges. *ILMU KELAUTAN: Indonesian Journal of Marine Sciences*, 29(4), 503–518. <https://doi.org/10.14710/ik.ijms.29.4.503-518>
- Tamti, H., Ambo-Rappe, R., Omar, S. B. A., Budimawan, & Moore, A. M. (2025). Preliminary Exploration of Unreported and Unregulated Sea Urchin Exploitation in Eastern Indonesia. *Coastal Management*, 53(3), 199–219. <https://doi.org/10.1080/08920753.2025.2470101>



010). Seagrass meadows of the Wakatobi National Park. In *Marine Conservation in the Coral Triangle: The Wakatobi National Park*. Publisher.

Ambo-Rappe, R., Jones, B. L., La Nafie, Y. A., Irawan, A., Hernawan, S., A. M., & Cullen-Unsworth, L. C. (2018). Indonesia's globally important seagrass meadows are under widespread threat. *Science of The Total Environment*, 634, 279–286. <https://doi.org/10.1016/j.scitotenv.2018.03.315>

- Unsworth, R. K. F., Wylie, E., Smith, D. J., & Bell, J. J. (2007). Diel trophic structuring of seagrass bed fish assemblages in the Wakatobi Marine National Park, Indonesia. *Estuarine, Coastal and Shelf Science*, 72(1–2), 81–88. <https://doi.org/10.1016/j.ecss.2006.10.006>
- Yasir, I., & Moore, A. M. (2021). A review of the known distribution of *Halophila spinulosa* in Indonesia with herbarium from Laikang in South Sulawesi. *IOP Conference Series: Earth and Environmental Science*, 763(1), 012007. <https://doi.org/10.1088/1755-1315/763/1/012007>





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