

DAFTAR PUSTAKA

- Allesina, S. & Pascual, M., 2008. Network Structure, Predator–prey Modules, and Stability in Large Food Webs. *Theoretical Ecology*, March, Volume 1, pp. 55-64.
- Ardli, E. R., 2008. *A Trophic Flow Model of the Segara Anakan Lagoon, Cilacap, Indonesia*, s.l.: Faculty of Biology and Chemistry, University of Bremen.
- Ardli, E.R. and Wolff, M., 2009. Land use and land cover change affecting habitat distribution in the Segara Anakan lagoon, Java, Indonesia. *Regional Environmental Change*, 9(4), pp.235-243.
- Azhari, Rais Fikri, 2024. Analisis Kesesuaian Lokasi Budidaya Ikan Laut Berbasis Parameter Oseanografi dan Penginderaan Jauh di Kawasan Perairan Segara Anakan. Masters thesis, Universitas Jenderal Soedirman.
- Baeta, A., Niquil, N., Marques, J. C. & Patrício, J., 2011. Modelling The Effects of Eutrophication, Mitigation Measures and An Extreme Flood Event on Estuarine Benthic Food Webs. *Ecological Modelling*, 222(6), pp. 1209-1221.
- Barnes, R.S.K. and Hughes, R.N., 1999. An introduction to marine ecology. John Wiley & Sons.
- Byrnes, J. E., Reynolds, P. L. & Stachowicz, J. J., 2007. Invasions and Extinctions Reshape Coastal Marine Food Webs. *Plos One*, 2(3), p. 295.
- Cahyo, T. N., Hartoko, A., Ruskananfolo, M. R. & Haeruddin, 2023. *Perubahan Garis Pantai dan Kedalaman Secara Spasio-Temporal di Laguna Segara Anakan Bagian Barat, Cilacap*. Purwokerto: Prosiding Seminar Nasional LPPM Unsoed.
- Cahyo, T.N., Hartoko, A., Muskananfolo, M.R., Haeruddin, H. and Hilmi, E., 2024. Mangrove density and delta formation in Segara Anakan Lagoon as an impact of the riverine sedimentation rate. *Biodiversitas Journal of Biological Diversity*, 25(3).
- Cardinale, B. J. et al., 2011. The Functional Role of Producer Diversity in Ecosystems. *American Journal of Botany*, 98(3), pp. 572-592.
- Cardinale, B. J. et al., 2012. Biodiversity Loss and Its Impact on Humanity. *Nature*, Volume 486, pp. 59-67.
- Cadotte, M. W., Cardinale, B. J. & Oakley, T. H., 2008. Evolutionary History and the Effect of Biodiversity on Plant Productivity. *Biological Science*, 105(44), pp. 17012-17017.
- Chapin III, F. S. et al., 1998. Ecosystem Consequences of Changing Biodiversity. *BioScience*, 48(1), pp. 45-52.
- Christensen, V. & Pauly, D., 1993. *Trophic Models of Aquatic Ecosystems*. s.l.:WorldFish.

- Christensen, V. et al., 2003. Hundred-year Decline of North Atlantic Predatory Fishes. *Fish and Fisheries*, 4(1), pp. 1-24.
- Christensen, V. & Walters, C. J., 2004. Trade-offs in Ecosystem-scale Optimization of Fisheries Management Policies. *Bulletin of Marine Science*, Volume 74, pp. 549-562.
- Christensen, V., Walters, C., Pauly, D. & Forrest, R., 2008. *Ecopath with Ecosim Version 6 User Guide*. s.l.:Lenfest Ocean Futures Project.
- Cloern, J. E., Grenz, C., & Videgar - Lucas, L., 1995. An empirical model of the phytoplankton chlorophyll : carbon ratio - the conversion factor between productivity and growth rate. *Limnology and Oceanography*, 40(7), 1313–1321. <https://doi.org/10.4319/lo.1995.40.7.1313>
- Correia, A. M. & Lopes, L. F., 2023. Revisiting Biodiversity and Ecosystem Functioning through the Lens of Complex Adaptive Systems. *Diversity*, 15(8), p. 895.
- Cowles, J. M. et al., 2015. Shifting Grassland Plant Community Structure drives Positive Interactive effects of Warming and Diversity on Aboveground Net Primary Productivity. *Global Change Biology*, 22(2), pp. 741-749.
- Dangles, O. & Malmqvist, B., 2004. Species Richness–decomposition Relationships Depend on Species Dominance. *Ecology Letters*, 7(5), pp. 395-402.
- Douglas, I., 1996. The impact of land-use changes, especially logging, shifting cultivation, mining and urbanization on sediment yields in humid tropical Southeast Asia: a review with special reference to Borneo. *IAHS Publications-Series of Proceedings and Reports-Intern Assoc Hydrological Sciences*, 236, pp.463-472.
- Duffy, J. E., 2003. Biodiversity Loss, Trophic Skew and Ecosystem Functioning. *Ecology Letters*, 6(8), pp. 680-687.
- Duncan, C., Thompson, J. R. & Pettorelli, N., 2015. The Quest for a Mechanistic Understanding of Biodiversity–Ecosystem Services Relationships. *Proceedings of The Royal Society B*, 282(1817).
- Dunne, J. A., 2006. The Network Structure of Foodwebs. In: Pascual M, Dunne JA, editors. *Ecological Networks: Linking Structure to Dynamics in Food Webs*. pp. 27-86.
- Engelhardt, K. A. M. & Ritchie, M. E., 2001. Effects of Macrophyte Species Richness on Wetland Ecosystem Functioning and Services. *Nature*, Volume 411, pp. 687-689.
- Filstrup, C. T. et al., 2014. Cyanobacteria Dominance Influences Resource Use Efficiency and Community Turnover in Phytoplankton and Zooplankton Communities. *Ecology Letters*, 17(4), pp. 464-474.

- Frank, K. T., Petrie, B., Shackell, N. L. & Choi, J. S., 2006. Reconciling Differences in Trophic Control in Mid-latitude Marine Ecosystems. *Ecology Letters*, 9(10), pp. 1096-1105.
- Gamfeldt, L. et al., 2014. Marine Biodiversity and Ecosystem Functioning: What's Known and What's Next?. *Oikos*, 124(3), pp. 252-265.
- Genung, M. A., Fox, j. & Winfree, R., 2020. Species Loss Drives Ecosystem Function in Experiments, But in Nature the Importance of Species Loss Depends on Dominance. *Global Ecology and Biogeography*, 29(9), pp. 1531-1541.
- Greig-Smith, P., 1983. Quantitative plant ecology (Vol. 9). Univ of California Press.
- Gui, J., & Sun, J., 2024. Phytoplankton carbon to chlorophyll a model development: a review. *Frontiers in Marine Science*, 11(November), 1–15. <https://doi.org/10.3389/fmars.2024.1466072>
- Hagstrom, G. I. & Levin, S. A., 2017. Marine Ecosystems as Complex Adaptive Systems: Emergent Patterns, Critical Transitions, and Public Goods. *Ecosystems*, Volume 20, pp. 458-476.
- Hakiki, I.A., Sembiring, L.E. and Nugroho, C.N.R., 2021. Analisis Sedimentasi Laguna Segara Anakan Dengan Pemodelan Numerik Angkutan Sedimen Kohesif. *Jurnal Teknik Hidraulik*, 12(1), pp.1-14.
- Helcom., 2017. Guidelines for monitoring of chlorophyll a. 1–5. https://helcom.fi/post_type_publ/guidelines-for-measuring-chlorophyll-a/
- Heymans, J. J., Sumaila, U. R. & Christensen, V., 2009. Policy Options For The Northern Benguela Ecosystem Using A Multispecies, Multifleet Ecosystem Model. *Progress in Oceanography*, 83(1-4), pp. 417-425.
- Heymans, J. J. et al., 2014. Global Patterns in Ecological Indicators of Marine Food Webs: A Modelling Approach. *PloS One*, 9(4).
- Hilborn, R. & Walters, C. J., 1992. *Quantitative Fisheries Stock Assessment: Choice, Dynamics and Uncertainty*. Boston: Springer US.
- Hillebrand, H., Bennett, D. M. & Cadotte, M. W., 2008. Consequences of Dominance: A Review of Evenness Effects on Local and Regional Ecosystem Processes. *Ecology*, 89(6), pp. 1510-1520.
- Hilmi, E., Sari, L.K., Mahdiana, A., Junaidi, T., Muslih, M., Samudra, S.R., Prayogo, N.A., Baedowi, M., Cahyo, T.N., Putra, R.R.D. and Sari, F.A., 2022. Mapping of mangrove ecosystem in Segara Anakan Lagoon using normalized different vegetation index and dominant vegetation index. *Omni-Akuatika*, 18(2), pp.165-178.

- Hilmi, E., Sari, L. K., Cahyo, T. N., Prayogo, N. A., Junaidi, T., & Mahdiana, A., 2023. Peningkatan Kesadaran Masyarakat terhadap Konservasi Laguna Segara Anakan melalui Sistem Vertikal dan Horizontal Aquaponik. *Jurnal Komunitas: Jurnal Pengabdian kepada Masyarakat*, 5(2), 133-147.
- Hodapp, D. et al., 2015. Structural Equation Modeling Approach to the Diversity-Productivity Relationship of Wadden Sea Phytoplankton. *Marine Ecology Progress Series*, Volume 523, pp. 31-40.
- Hooper, D. U. et al., 2005. Effects of Biodiversity on Ecosystem Functioning: A Consensus of Current Knowledge. *Ecological Monographs*, 75(1), pp. 3-35.
- Isbell, F. et al., 2018. Quantifying Effects of Biodiversity on Ecosystem Functioning Across Times and Places. *Ecology Letters*, 21(6), pp. 763-778.
- Jakobsen, H. H., & Markager, S., 2016. Carbon-to-chlorophyll ratio for phytoplankton in temperate coastal waters: Seasonal patterns and relationship to nutrients. *Limnology and Oceanography*, 61(5), 1853–1868. <https://doi.org/10.1002/lno.10338>
- Jackson, J. B. C. et al., 2001. Historical Overfishing and the Recent Collapse of Coastal Ecosystems. *Science*, 293(5530), pp. 629-637.
- Jennerjahn, T., Holtermann, P., Pohlenga, I. and Nasir, B., 2007. Environmental Conditions in the Segara Anakan Lagoon, Java, Indonesia. Synopsis of ecological and socio-economic aspects of tropical coastal ecosystem with special reference to Segara Anakan, p.28.
- Jorgensen, S.E. and Bendoricchio, G., 2001. Fundamentals of ecological modelling (Vol. 21). Elsevier.
- Kementerian Pekerjaan Umum, 2013. Keputusan Menteri Pekerjaan Umum Nomor 483/KPTS/M/2013 tentang Pola Pengelolaan Sumber Daya Air Wilayah Sungai Citanduy. Jakarta: Kementerian Pekerjaan Umum.
- Lehtinen, S., Tamminen, T., Ptacnik, R. & Andersen, T., 2017. Phytoplankton Species Richness, Evenness, and Production in Relation to Nutrient Availability and Imbalance. *Limnology and Oceanography*, 62(4), pp. 1393-1408.
- Levin, S. A., 1998. Ecosystems and the Biosphere as Complex Adaptive Systems. *Ecosystems*, September, Volume 1, pp. 431-436.
- Libralato, S., Christensen, V. & Pauly, D., 2006. A Method For Identifying Keystone Species in Food Web Models. *Ecological Modelling*, 195(3-4), pp. 153-171.
- Link, J., 2010. *Ecosystem-based Fisheries Management: Confronting Tradeoffs*. s.l.:Cambridge University Press.

- Loreau, M. & Hector, A., 2001. Partitioning Selection and Complementarity in Biodiversity experiments. *Nature*, Volume 412, pp. 72-76.
- Loreau, M., 2010. Linking Biodiversity and Ecosystems: Towards a Unifying Ecological Theory. *Biological Science*, 365(1537), pp. 49-60.
- Loreau, M., Sapijanskas, J., Isbell, F. & Hector, A., 2012. Niche and Fitness Differences Relate the Maintenance of Diversity to Ecosystem Function: Comment. *Ecology*, 93(6), pp. 1482-1487.
- Lotze, H. K. et al., 2006. Depletion, Degradation, and Recovery Potential of Estuaries and Coastal Seas. *Science*, 312(5781), pp. 1806-1809.
- Maureaud, A. et al., 2019. Biodiversity–Ecosystem Functioning Relationships in Fish Communities: Biomass is Related To Evenness and the Environment, Not To Species Richness. *Proceedings of the Royal Society B*, 286(1906).
- McCann, K., 2007. Protecting Biostructure. *Nature*, 446(7131), p. 29.
- Mora, C., Danovaro, R. & Loreau, M., 2014. Alternative Hypotheses to Explain Why Biodiversity-ecosystem Functioning Relationships Are Concave-up in Some Natural Ecosystems But Concave-down in Manipulative Experiments. *Nature*, 4(1), p. 5427.
- Mulder, C. P. H. et al., 2004. Species Evenness and Productivity in experimental Plant Communities. *Oikos*, 107(1), pp. 50-63.
- Naeem, S. & Li, S., 1997. Biodiversity Enhances Ecosystem Reliability. *Nature*, Volume 390, pp. 507-509.
- Norberg, J., 2004. Biodiversity and Ecosystem Functioning: A Complex Adaptive Systems Approach. *Limnology and Oceanography*, 49(4 part 2), pp. 1269-1277.
- Odum, E.P. and Barrett, G.W., 1971. Fundamentals of ecology
- Odum, H.T., 1983. Systems Ecology; an introduction.
- Opitz, S., 1996. Trophic interactions in Caribbean coral reefs (Vol. 1085). WorldFish.
- Paine, R. T., 2002. Trophic Control of Production in a Rocky Intertidal Community. *Science*, 296(5568), pp. 736-739.
- Palomares, M.L. and Pauly, D., 1989. A multiple regression model for prediction the food consumption of marine fish populations. *Marine and Freshwater Research*, 40(3), pp.259-273.

- Pauly, D., 1980. On the interrelationships between natural mortality, growth parameters, and mean environmental temperature in 175 fish stocks. *ICES journal of Marine Science*, 39(2), pp.175-192.
- Pauly, D., 1986. A simple method for estimating the food consumption of fish populations from growth data and food conversion experiments. *Fish Bull*, 84, p.827.
- Pauly, D., Christensen, V. & Walters, C., 2000. Ecopath, Ecosim, and Ecospace as Tools for Evaluating Ecosystem Impact of Fisheries. *ICES Journal of Marine Science*, 57(3), pp. 697-706.
- Perry, R. I. et al., 2010. Sensitivity of Marine Systems to Climate and Fishing: Concepts, Issues and Management Responses. *Journal of Marine Systems*, 10 February, 79(3-4), pp. 427-435.
- Pielou, E.C., 1969. An introduction to mathematical ecology.
- Pikitch, E. K. et al., 2004. Ecosystem-Based Fishery Management. *Science*, 305(5682), pp. 346-347.
- Pittroff, Wolfgang & Pedersen, Ellen. (2005). Ecological Modelling. 10.1038/npg.els.0003270.
- Piraino, S., Fanelli, G. & Boero, F., 2002. Variability of Species' Roles in Marine Communities: Change of Paradigms for Conservation Priorities. *Marine Biology*, Volume 140, pp. 1067-1074.
- Polovina, J. J., 1984. Model of a coral reef ecosystem: I. The ECOPATH model and its application to French Frigate Shoals. *Coral Reefs*, Volume 3, pp. 1-11.
- Polovina, J. J., 1984. An Overview of the Ecopath Model. *Fishbyte*, Volume 2, pp. 5-7.
- Power, M. E. et al., 1996. Challenges in the Quest for Keystones: Identifying Keystone Species is Difficult—but Essential to Understanding How Loss of Species Will Affect Ecosystems. *BioScience*, 46(8), pp. 609-620.
- Pranovi, F. et al., 2003. Mechanical Clam Dredging in Venice Lagoon: Ecosystem Effects Evaluated With a Trophic Mass-balance Model. *Marine Biology*, 7 May, Volume 143, pp. 393-403.
- Reich, P. B. et al., 2012. Impacts of Biodiversity Loss Escalate Through Time as Redundancy Fades. *Science*, 336(6081), pp. 589-592.
- Sahara, L.R., Putri, A.K., Listyani, M., Dewa, A., Mahdiana, A., Kusuma, R.O. and Ekalaturrahmah, Y.A.C., 2023. Pola Pertumbuhan dan Faktor Kondisi Ikan Petek (*Leiognathus equula*, Forsskål, 1775) dari Perairan Plawangan Plawangan Timur Segara Anakan, Kabupaten Cilacap. *MAIYAH*, 2(4), pp.359-369.

- Shurin, J. B. et al., 2002. A Cross-Ecosystem Comparison of the Strength of Trophic Cascades. *Ecology Letters*, 5(6), pp. 785-791.
- Sidle, R.C., 2010. Hydrogeomorphic processes in temperate and tropical forests: Effects of land use and scale. *Geography Compass*, 4(8), pp.1115-1132.
- Srivastava, D. S. & Vellend, M., 2005. Biodiversity-Ecosystem Function Research: Is It Relevant to Conservation?. *Annual Review of Ecology, Evolution, and Systematics*, Volume 36, pp. 267-294.
- Stachowicz, J. J., Bruno, J. F. & Duffy, J. E., 2007. Understanding the Effects of Marine Biodiversity on Communities and Ecosystems. *Annual Review of Ecology, Evolution, and Systematics*, Volume 38, pp. 739-766.
- Strickland, J. D. H., 1960. Measuring the Production of Marine Phytoplankton. THE HONOURABLE THE MINISTER OF FISHERIES. 122.
- Sugiarto, T., Suryono, C. A., & Suprijanto, J., 2021. Distribusi Gastropoda di Kawasan Rutan Mangrove Segara Anakan Cilacap (Distribution of Gastropodes in Mangrove Forest Area of Segara Anakan Cilacap). *Jurnal Moluska Indonesia*, 5(2), 50–57. <https://doi.org/10.54115/jmi.v5i1><https://doi.org/10.54115/jmi.v5i2>ISSN:2776-7507
- Tilman, D., 1999. The Ecological Consequences of Changes in Biodiversity: A Search For General Principles. *Ecology*, 80(5), pp. 1455-1474.
- Tilman, D., 2000. Causes, Consequences and Ethics of Biodiversity. *Nature*, Volume 405, pp. 208-211.
- Tilman, D., Isbell, F. & Cowles, J. M., 2014. Biodiversity and Ecosystem Functioning. *Annual Review of Ecology, Evolution, and Systematics*, Volume 45, pp. 471-493.
- Tjahjo, D.W.H. and Riswanto, R., 2013. Status Terkini Dan Alternatif Pengelolaan Sumber Daya Ikan Di Laguna Segara anakan, Cilacap. *Jurnal Kebijakan Perikanan Indonesia*, 5(1), pp.9-16.
- Tylianakis, J. M. et al., 2008. Resource Heterogeneity Moderates the Biodiversity-Function Relationship in Real World Ecosystems. *Plos Biology*, Volume 6, p. 122.
- Ulanowicz, R. E. & Wulff, F., 1991. Comparing Ecosystem Structures: The Chesapeake Bay and the Baltic Sea. In: Cole J, Lovett G, Findlay S, editors. *Comparative Analyses of Ecosystems: Patterns, Mechanisms, and Theories*. Volume 1, pp. 140-166.
- van der Plas, F., 2019. Biodiversity and Ecosystem Functioning in Naturally Assembled Communities. *Biological Reviews*, 94(4), pp. 1220-1245.
- Walters, C. J. & Martell, S. J., 2004. *Fisheries Ecology and Management*. Princeton(New Jersey): Princeton University Press.

- Wiraguna, A., & Darmawan, S., 2021. Estimasi biomassa mangrove dengan data LANDSAT multitemporal menggunakan Google Earth Engine (Studi Kasus : Segara Anakan, Kabupaten Cilacap, Jawa Tengah). *Prosiding FTSP Series 1*, 20(x), 1–7.
- Worm, B. et al., 2006. Impacts of Biodiversity Loss on Ocean Ecosystem Services. *Science*, 314(5800), pp. 787-790.
- Yulianti, R.A. and Ariastita, P.G., 2012. Arahan pengendalian konversi hutan mangrove menjadi lahan budidaya di kawasan Segara Anakan. *Jurnal Teknik ITS*, 1(1), pp.1-5.
- YW, Fajar Fahlevi and Darmawan, S., 2020. Estimasi Biomassa Mangrove Dengan Data Landsat Multitemporal Pada Google Earth Engine. *Prosiding FTSP Series*.

