

DAFTAR PUSTAKA

- Achmad, E., Nursanti, Marwoto, Fazriyas, and Jayanti, D.P. 2020. "Studi Kerapatan Mangrove Dan Perubahan Garis Pantai Tahun 1989-2018 Di Pesisir Provinsi Jambi." *Jurnal Pengelolaan Sumberdaya Alam Dan Lingkungan (Journal of Natural Resources and Environmental Management)* 10(2):138–52. doi: 10.29244/jpsl.10.2.138-152.
- Agustin, T., Kristanto, Y., dan Aulia, O. D. 2019. Perubahan Luas Lahan Mangrove Dan Pengikisan Pesisir Jepara Menggunakan Analisis Komponen Utama Spektral Penginderaan Jauh. *Jurnal Meteorologi Klimatologi Dan Geofisika*, 5(2), 45–53. <https://doi.org/10.36754/jmkg.v5i2.58>
- Akbaruddin, I.P., Sasmito, B., Sukmono, A. 2020. Analisis Korelasi Luasan Kawasan Mangrove Terhadap Perubahan Garis Pantai Dan Area Tambak (Studi Kasus: Wilayah Pesisir Kabupaten Demak). *Jurnal Geododi Undip*, 217–226.
- Albert, Ja, K. Warren-Rhodes, Aj Schwarz, and Nd Duke. 2012. "Mangrove Ecosystem Services and Payments for Blue Carbon in Solomon Islands." *The WorldFish Center, Solomon Islands*. (August 2016):6. doi: 10.13140/RG.2.1.2301.2081.
- Alkautsar, Millenia Dinda, Chrisna Adhi Suryono, and Ibnu Pratikto. 2022. "Korelasi Antara Ukuran Butir Sedimen Non Pasir Dengan Kandungan Bahan Organik Di Perairan Morodemak, Kabupaten Demak." *Journal of Marine Research* 11(3):391–98. doi: 10.14710/jmr.v11i3.35020.
- Alongi, Daniel M. 2012. "Carbon Sequestration in Mangrove Forests." *Carbon Management* 3(3):313–22. doi: 10.4155/cmt.12.20.
- Alongi, Daniel M. 2015. "The Impact of Climate Change on Mangrove Forests." *Current Climate Change Reports* 1(1):30–39.
- Alongi, Daniel M. 2020. "Carbon Balance in Salt Marsh and Mangrove Ecosystems: A Global Synthesis." *Journal of Marine Science and Engineering* 8(10):1–21.
- Alwidakdo, A., Azham, Z., Kamarubayana, L. 2014. "Studi Pertumbuhan Mangrove Pada Kegiatan Rehabilitasi Hutan Mangrove Di Desa Tanjung Limau Kecamatan Muara Badak Kabupaten Kutai Kartanegara." *Jurnal AGRIFOR* 18(1):11–18.
- Anne E. Magurran. 1988. *Ecological Diversity and Its Measurement*. Vol. 7. 1st ed. Australia: Great Britanian Pr: Chapman & Hall.
- Arfan, Amal, Muhammad Faisal Juanda, Maddatuang Maddatuang, Ramli Umar, Rosmini Maru, and Anshari Anshari. 2022. "Strategi Pengelolaan Ekowisata Mangrove Pulau Bangkobangkoang Kabupaten Pangkep, Sulawesi Selatan." *Jurnal Analisis Kebijakan Kehutanan* 19(1):49–62. doi: 10.20886/jakk.2022.19.1.49

- Ariani, E., Ruslan, M., Kurnain, A. dan Kissinnger. 2016. Analisis Potensi Simpanan Karbon Hutan Mangrove Di Area Pt. Indocement Tunggal Prakarsa, Tbk P 12 Tarjun. EnviroScientiae, 12(3), 312–329.
- Arief, Muchlisin, Gathot Winarso, and Teguh Prayogo. 2011. "Kajian Perubahan Garis Pantai Menggunakan Data Satelit Landsat Di Kabupaten Kendal." *Penginderaan Jauh* 8:71–80.
- Arifanti, V. B., Kauffman, J. B., Hadriyanto, D., Murdiyarso, D., dan Diana, R. 2019. Carbon dynamics and land use carbon footprints in mangrove-converted aquaculture: The case of the Mahakam Delta, Indonesia. *Forest Ecology and Management*, 432, 17–29. <https://doi.org/10.1016/j.foreco.2018.08.047>
- Arifanti, V. B., Sidik, F., Mulyanto, B., Susilowati, A., Wahyuni, T., Subarno, Yulianti, Yuniarti, N., Aminah, A., Suita, E., Karlina, E., Suharti, S., Pratiwi, Turjaman, M., Hidayat, A., Rachmat, H. H., Imanuddin, R., Yeny, I., Darwiati, W., Sari, N., Hakim, S.S., Slamet, W.Y., dan Novita, N. 2022. Challenges and Strategies for Sustainable Mangrove Management in Indonesia: A Review. *Forests*, 13(5), 1–18. <https://doi.org/10.3390/f13050695>
- Arlina, R. 2022. "Hutan Mangrove Di Perairan Teluk Laikang Kabupaten Takalar (Identification of Damages and Mangrove Forest Management Strategies in the Waters of Laikang Bay , Takalar Regency)." 2(1):79–89.
- Atwood, T. B., Connolly, R. M., Almahasheer, H., Carnell, P. E., Duarte, C. M., Lewis, C. J. E., Irigoién, X., Kelleway, J. J., Lavery, P. S., Macreadie, P. I., Serrano, O., Sanders, C. J., Santos, I., Steven, A. D. L., dan Lovelock, C. E. 2017. *Global patterns in mangrove soil carbon stocks and losses*. *Nature Climate Change*, 7(7), 523–528.
- Azad, M. S., Kamruzzaman, M., dan Osawa, A. 2020. Quantification and Understanding of Above and Belowground Biomass in Medium Saline Zone of the Sundarbans, Bangladesh: The Relationships with Forest Attributes. *Journal of Sustainable Forestry*, 39(4), 331–345. <https://doi.org/10.1080/10549811.2019.1664307>
- Babo, P.P., Sondak, C.F.A., Paulus, J.J.H., Schaduw, J.N.W., Angmalisang, P.A., dan Wantasen, A.S.. 2020. Struktur Komunitas Mangrove Di Desa Bone Baru, Kecamatan Banggai Utara, Kabupaten Banggai Laut, Sulawesi Tengah. *Jurnal Pesisir Dan Laut Tropis*, 8(2), 92–103
- Badan Pusat Statistik Kabupaten Demak. 2019. Kecamatan Bonang Dalam Angka 2019. Demak: Badan Pusat Statistik. 62 Hlm.
- Badan Pusat Statistik Kabupaten Demak. 2019. Kecamatan Karang Tengah Dalam Angka 2019. Demak: Badan Pusat Statistik. 66 Hlm
- Badan Pusat Statistik Kabupaten Demak. 2021. Kabupaten Dalam Angka 2021. Demak: Badan Pusat Statistik. 68 Hlm
- Bappenas. 2019. Laporan Implementasi Perencanaan Pembangunan Rendah Karbon. Bappenas, Jakarta.78 Hlm.

BPSILHK Solo. 2022. Pemantauan Penerapan Standar Instrumen Pengelolaan Ekosistem Mangrove Di Kabupaten Demak. 41 Hlm

Barnuevo, A. dan Asaeda, T. 2018. Integrating the Ecophysiology and Biochemical Stress Indicators into the Paradigm of Mangrove Ecology and a Rehabilitation Blueprint. *PLoS ONE* 13(8):1–17. doi: 10.1371/journal.pone.0202227.

Basha, C. 2018. *An Overview on Global Mangrove Distribution. Indian Journal of Geo Marine Sciences*, 47, 766-772.

Bhomia, R. K., Mackenzie, R. A., Murdiyarso, D., Sasmito, S. D., dan Purbopuspito, J. (2016). Impacts of land use on Indian mangrove forest carbon stocks: Implications for conservation and management. *Ecological Applications*, 26(5), 1396–1408. <https://doi.org/10.1890/15-2143>

Bosma, R. H., Debrot, D., Rejeki, S., Tonneijck, F., Yuniati, A. W., and Sihombing, W. 2020. Associated Mangrove Aquaculture Farms: Building With Nature To Restore Eroding Tropical Muddy Coasts. Wageningen: Wageningen University & Research.

Camacho, L.D., Sabino, S.S., Gevaña, D.T., Takeuchi , K., Ruzol, C.D., Garcia, J.E., Camacho, A.C.D., Naing O, T., Maung, A.C., Saxena, K.G., Liang, L., Yiu, E. 2020. Sustainable Mangrove Rehabilitation: Lessons and Insights from Community-Based Management in the Philippines and Myanmar. *APN Science Bulletin* 10(1):18–25. doi: 10.30852/sb.2020.946.

Castillo, J. A. A., Apan, A. A., Maraseni, T. N., dan Salmo, S. G. 2017. Soil C quantities of mangrove forests, their competing land uses, and their spatial distribution in the coast of Honda Bay, Philippines. *Geoderma*, 293, 82–90. <https://doi.org/10.1016/j.geoderma.2017.01.025>

Chamberland-Fontaine, S., Estrada, G. T., Heckadon-Moreno, S., and Hickey, G. M. Enhancing the sustainable management of mangrove forests: The case of Punta Galeta, Panama. *Trees, For. People*, 2022. 8: 1 -12, doi: 10.1016/j.tfp.2022.100274.

Chang, Y., Hou, K., Li, X., Zhang, Y., dan Chen, P. 2018. *Review of Land Use and Land Cover Change research progress. IOP Conference Series: Earth and Environmental Science*, 113 (1). <https://doi.org/10.1088/1755-1315/113/1/012087>

Chou, M. Q., Lin, W. J., Lin, C. W., Wu, H. H., dan Lin, H. J. 2022. Allometric equations may underestimate the contribution of fine roots to mangrove carbon sequestration. *Science of the Total Environment*, 833, 155032. <https://doi.org/10.1016/j.scitotenv.2022.155032>

Chuai, X., Huang, X., Wu, C., Li, J., Lu, Q., Qi, X., Zhang, M., Zuo, T., & Lu, J. 2016. Land use and ecosystems services value changes and ecological land management in coastal Jiangsu, China. *Habitat International*, 57, 164–174. <https://doi.org/10.1016/j.habitatint.2016.07.004>

- Dalilah, A., Malinda, A. R., Oktapiyansyah, R., Monica, W., dan Purnama, F. 2021. Monitoring Perubahan Penggunaan Lahan Menggunakan Citra SPOT 6 dan SPOT 7 di Kota Semarang. *Jurnal Ilmiah Ilmu Sosial*, 7(1), 99–108.
- Darmadi, A. A. K., dan Ardhana, I. P. G. 2010. Komposisi Jenis-Jenis Tumbuhan Mangrove di Kawasan Hutan Perapat Benoa Desa Pemogan, Kecamatan Denpasar Selatan, Kodya Denpasar, Propinsi Bali. *Jurnal Ilmu Dasar*, 11(2), 167–171.
- Darmiati, I. W. N. dan Atmadipoera, A. S. 2020. Analisis Perubahan Garis Pantai Di Wilayah Pantai Barat Kabupaten Tanah Laut Kalimantan Selatan Analysis. *Jurnal Ilmu Dan Teknologi Kelautan Tropis*, 12(1), 211–222.
- Dewi, D. K., Sutikno, S., dan Rinaldi. 2017. Analisis Laju Perubahan Garis Pantai Pulau Karimun Besar Menggunakan DSAS (*Digital Shoreline Analysis System*). *Jom FTEKNIK*, 4(2), 1–14.
- Dimalen, F. K., dan Rojo, M. J. A. 2019. Carbon stock assessment of a mangrove forest in Cotabato City, Philippines. *Journal of Biodiversity and Environmental Science*, 14(2), 1–8. <http://www.innspub.net>
- Djalaluddin, Rignolda, Brown, B., dan Lewis, R.R. 2019. The Practice of Hydrological Restoration to Rehabilitate Abandoned Shrimp Ponds in Bunaken National Park, North Sulawesi, Indonesia. *Biodiversitas*, 20(1):160–70. doi: 10.13057/biodiv/d200119.
- Djosetro, M., dan Behagel, J.H. 2020. Building Local Support for a Coastal Protected Area: Collaborative Governance in the Bigi Pan Multiple Use Management Area of Suriname. *Marine Policy* 112(15):103746. doi: 10.1016/j.marpol.2019.103746.
- Djufri, Wardiah, DAN Zainal A. M. 2016. lants Diversity of the Deforested Peat-Swamp Forest of Tripa, Indonesia. *Biodiversitas*, 17(1):372–76. doi: 10.13057/BIODIV/D170150.
- Donato, D. C., Kauffman, J.B., Murdiyarso, D., Kurnianto, S., Stidham, M., dan Kanninen, M. 2011. Mangrove adalah salah satu hutan terkaya karbon di kawasan tropis. CIFOR Brief, 13(12), 12.
- Dutrieux, E., Proisy, C., Fromard, F., Walcker, R., Liman, M., Pawlowski, F., Ferdiansyah H., dan Ponthieux, O. 2014. “Mangrove Restoration in the Vicinity of Oil and Gas Facilities: Lessons Learned from a Large Scale Project.” *Society of Petroleum Engineers - SPE International Conference on Health, Safety and Environment 2014: The Journey Continues*.
- Eddy, S., Milantara, N., Sasmito, S. D., Kajita, T., dan Basyuni, M. 2021. Anthropogenic drivers of mangrove loss and associated carbon emissions in South Sumatra, Indonesia. *Forests*, 12(2), 1–14. <https://doi.org/10.3390/f12020187>
- Edwin, M., Sulistyorini, I.S., Poedjirahajoe, E., Faida, L.R.W., Purwanto, R.H., dan Imanuddin. 2021. “Structure and Dominance of Species in Mangrove Forest on Kutai National Park, East Kalimantan, Indonesia.” *Jurnal Manajemen Hutan Tropika* 27(1):15–23. doi: 10.7226/JTFM.27.1.59.

- Elida Nurrohmah, S. dan N. K. 2016. Pemilihan Lokasi Kawasan Konservasi Mangrove dengan Pendekatan SIG Partisipatif di Wilayah Pantai Kabupaten Demak. *Majalah Geografi Indonesia (MGI)*, 30(1), 149–168.
- English, S., Wilkinson, C., dan Baker, V. 1994. Survey Manual For Tropical Marine Resources (2nd ed.). Australian Institute of Marine Science: Australia.383 Hlm.
- FAO. 2020. The State of World Fisheries and Aquaculture 2020. Sustainability in Action. Rome. <https://doi.org/10.4060/ca9229en>
- Farahisah, H., Yulianda, F., dan Effendi, H. 2021. Struktur Komunitas, Cadangan Karbon, dan Estimasi Nilai Ekonomi Mangrove di Muara Sungai Musi. *Jurnal Ilmu Pertanian Indonesia*, 26(2), 228–234. <https://doi.org/10.18343/jipi.26.2.228>
- Faturrohmah, S., dan Marjuki, B. 2017. Identifikasi Dinamika Spasial Sumberdaya Mangrove di Wilayah Pesisir Kabupaten Demak Jawa Tengah. *Majalah Geografi Indonesia*, 31(1), 56. <https://doi.org/10.22146/mgi.24234>
- Fawzi, N. I., dan Husna, V. N. 2021. Aquaculture Development Monitoring on Mangrove Forest in Mahakam Delta, East Kalimantan. *IOP Conference Series: Earth and Environmental Science*, 750(1). <https://doi.org/10.1088/1755-1315/750/1/012002>
- Fuad, M.A.Z., N. Yunita, Kasitowati, R.D., Hidayati, N., dan Sartimbul, A. 2019. Pemantauan Perubahan Garis Pantai Jangka Panjang dengan Teknologi Geo-Spasial di Pesisir Bagian Barat Kabupaten Tuban, Jawa Timur. *Jurnal Geografi*, 11(1), 48–61. <https://doi.org/10.24114/jg.v1i1.11409>
- Gann, G.D., McDonald, T., Walder, B., Aronson, J., Nelson, C.R., Jonson, J., Hallett, J.G., Eisenberg, C., Guariguata, M.R., Liu, J., Hua, F., Echeverría, C., Gonzales, E., Shaw, N., Decleer, K., dan Dixon, K.W. 2019. International Principles and Standards for the Practice of Ecological Restoration. Second Edition. *Restoration Ecology* 27(1):41–46. doi: 10.1111/rec.13035.
- Getzner, M., dan Islam, M. S. 2020. Ecosystem services of mangrove forests: Results of a meta-analysis of economic values. *International Journal of Environmental Research and Public Health*, 17(16), 1–13. <https://doi.org/10.3390/ijerph17165830>
- Goldberg, L., Lagomasino, D., Thomas, N., dan Fatoyinbo, T. 2020. Global declines in human-driven mangrove loss. *Global Change Biology*, 26(10), 5844–5855. <https://doi.org/10.1111/gcb.15275>
- Grellier, S., Janeau, J. L., Dang Hoai, N., Nguyen Thi Kim, C., Le Thi Phuong, Q., Pham Thi Thu, T., Tran-Thi, N. T., dan Marchand, C. 2017. Changes in soil characteristics and C dynamics after mangrove clearing (Vietnam). *Science of the Total Environment*, 593–594, 654–663. <https://doi.org/10.1016/j.scitotenv.2017.03.20>
- Gullström, M., Dahl, M., Lindén, O., Vorhies, F., Forsberg, S., Ismail, R. O., dan Björk, M. 2021. Coastal blue carbon stocks in Tanzania and Mozambique Support for climate adaptation and mitigation actions. Gland, Switzerland: IUCN, 1-67.

- Hadiyanto, H., Arief Rahman Halim, M., Muhammad, F., Soeprobowati, T. R., dan Sularto, S. 2021. Potential for environmental services based on the estimation of reserved carbon in the mangunharjo mangrove ecosystem. *Polish Journal of Environmental Studies*, 30(4), 3545–3552. <https://doi.org/10.15244/pjoes/126374>
- Hairiah, K., dan Rahayu, S. 2007. Petunjuk Praktis Pengukuran Karbon Tersimpan di Berbagai Penggunaan Lahan. World Agroforestry Centre, ICRAF, SEA Regional Office, University of Brawijaya, Indonesia. 77 Hlm.
- Halim, Halili, dan Afu, L. O.A. 2016. Studi Perubahan Garis Pantai Dengan Pendekatan. *Sapa Laut*, 1(1), 24–31
- Hamilton, S. E., dan Casey, D. 2016. Creation of a high spatio-temporal resolution global database of continuous mangrove forest cover for the 21st century (CGMFC-21). *Global Ecology and Biogeography*, 25(6), 729–738. <https://doi.org/10.1111/geb.12449>
- Hamilton, S. E., dan Friess, D. A. 2018. Global carbon stocks and potential emissions due to mangrove deforestation from 2000 to 2012. *Nature Climate Change*, 8(3), 240–244. <https://doi.org/10.1038/s41558-018-0090-4>
- Handiani, D.N., Darmawan, S., Heriati, A., dan Aditya, Y. D. 2019. Kajian Kerentanan Pesisir Terhadap Kenaikan Muka Air Laut di Kabupaten Subang. *Jurnal Kelautan Nasional*, 14(3), 145–154. <https://doi.org/10.15578/jkn.v14i3.75830090-4>
- Hanggara, B. B., Murdiyarso, D., Ginting, Y. R., Widha, Y. L., Panjaitan, G. Y., & Lubis, A. A. 2021. Effects of diverse mangrove management practices on forest structure, carbon dynamics and sedimentation in North Sumatra, Indonesia. *Estuarine, Coastal and Shelf Science*, 259, 1–13. <https://doi.org/10.1016/j.ecss.2021.107467>
- Hapsari, K. A., Tim C. J., Martin C. L., Volker, K., dan Hermann, B. 2020. “Intertwined Effects of Climate and Land Use Change on Environmental Dynamics and Carbon Accumulation in a Mangrove-Fringed Coastal Lagoon in Java, Indonesia.” *Global Change Biology* 26(3):1414–31. doi: 10.1111/gcb.14926.
- Harahab, N. 2020. Pemetaan Hutan Mangrove Serta Nilai Ekonomi Barang Dan Jasa Lingkungan Yang Dihasilkan. *Jurnal Kehutanan Tropika Humida*, 3(2), 183–191
- Harishma, K. M., Sandeep, S., & Sreekumar, V. B. 2020. Biomass and carbon stocks in mangrove ecosystems of Kerala, southwest coast of India. *Ecological Processes*, 9 (1), 1–9. <https://doi.org/10.1186/s13717-020-00227-8>
- Hariyanto, T., Mukhtar, M.K., dan Pribadi C.B. 2018. Evaluasi Perubahan Garis Pantai Akibat Abrasi Dengan Citra Satelit Multitemporal (Studi Kasus: Pesisir Kabupaten Gianyar, Bali). *Geoid*, 14(1), 66. <https://doi.org/10.12962/j24423998.v14i1.3822>
- Harper, A. B., Powell, T., Cox, P. M., House, J., Huntingford, C., Lenton, T. M., Sitch, S., Burke, E., Chadburn, S. E., Collins, W. J., Comyn-Platt, E., Daioglou, V., Doelman, J. C., Hayman, G., Robertson, E., van Vuuren, D., Wiltshire, A., Webber, C. P., Bastos, A., Shu, S. 2018. Land-use emissions play a critical role in land-based mitigation for Paris climate targets. *Nature Communications*, 9(1).

- Has, S.N., dan Sulistiawati. 2018. "Pemanfaatan Citra Penginderaan Jauh Untuk Mengenali Perubahan Penggunaan Lahan Pada Kawasan Karst Maros." *Journal Sains Dan Pendidikan Fisika (JSPF)* 14(1):60–66.
- Hermon, D., Putra, A., & Oktorie, O. (2018). The Model of Mangrove Land Cover Change for the Estimation of Blue Carbon Stock Change in Belitung Island -Indonesia. *International Journal of Applied Environmental Sciences ISSN*, 13(2), 973–6077. <http://www.ripublication.com>
- Herr, D., dan Landis, E. 2016. Coastal blue carbon ecosystems. Oportunities for Nationally Determined Contribution. Policy Brief, Gland, Switzerland, 1-27.
- Hidayati, N., Paluphi, R.W., Asadi, M.A., dan Purnawali, H.S. 2017. Kajian dinamika pantai : Studi kasus di Pantai Rening, Jembrana, Bali. Depik, Jurnal Ilmu-Ilmu Perairan, Pesisir Dan Perikanan, 6(1), 31–43. <https://doi.org/10.13170/depik.6.1.5457>
- Hidayati, N., Wahyuning P., Asadi, M.A., dan Purnawali, H.S. 2017. "Kajian Dinamika Pantai : Studi Kasus Di Pantai Rening, Jembrana, Bali." *Depik, Jurnal Ilmu-Ilmu Perairan, Pesisir Dan Perikanan* 6(1):31–43. doi: 10.13170/depik.6.1.5457.
- Hilmi, E., Siregar, A.S., dan Febryanni, L. 2015. Struktur Komunitas, Zonasi Dan Keanekaragaman Hayati Vegetasi Mangrove Di Segara Anakan Cilacap. *OmniAkuatika*, 11(2), 20–32. <https://doi.org/10.20884/1.oa.2015.11.2.36>
- Hilmi, N., Chami, R., Sutherland, M.D., Hall-spencer, J.M., Lebleu, L., Benitez, M.B., dan Levin, L.A. 2021. The Role of Blue Carbon in Climate Change Mitigation and Carbon Stock Conservation. *Front. Clim.*, 3(710546), 1–18. <https://doi.org/10.3389/fclim.2021.710546>
- Hilyana, S., Amir, S., Marzuki, M., dan Damayanti, A.A. 2019. Pemberdayaan Wanita Pesisir Melalui Olahan Pangan Berbasis Mangrove Di Desa Paremas Kabupaten Lombok Timur. Pp. *Prosiding PEPADU*, 1: 416-424
- Hindarto, D. E., Samyanugraha, A., dan Nathalia, D. 2018. Pengantar Pasar Karbon untuk Pengendalian Perubahan Iklim. PMR Indonesia, Jakarta.110 Hlm.
- Hoefel, F., dan Elgar, S. 2006. "Wave-Induced Sediment Transport and Onshore Sandbar Migration." *Coastal Engineering* 53(10):817–24. doi: 10.1016/j.coastaleng.2006.04.003.
- Hu, Y., Batunacun, Zhen, L., dan Zhuang, D. 2019. Assessment of Land-Use and LandCover Change in Guangxi, China. *Scientific Reports*, 9(1), 1–13. <https://doi.org/10.1038/s41598-019-38487-w>
- Husen, M. A. M. 2018. Implementasi Perdagangan Karbon Indonesia-Jepang Dalam Skema Joint Crediting Mechanism. *EJournal Ilmu Hubungan Internasional*, 6 (1), 251–264.
- Hutama, Y., Purnomo, P., dan Nitispardji, M. 2016. Studi Tentang Potensi Mangrove Desa Tambakbulusan Berdasarkan Hubungan Antara Sebaran Tingkat Kerapatan , C/N Ratio Dan Total Bakteri. *Journal of Maquares*, 5 (1), 1–7

- Ilman, M., Dargusch, P., Darto, P., dan Onrizal. 2016. A historical analysis of the drivers of loss and degradation of Indonesia's mangroves. *Land Use Policy*, 54, 448–459. <https://doi.org/10.1016/j.landusepol.2016.03.010>
- Imran, Z., Easteria, G., dan Yulianto, G. 2022. Estimasi Stok Karbon Mangrove Rehabilitasi Di Pulau Harapan Dan Kelapa, Taman Nasional Kepulauan Seribu, Jakarta. *J. Ilmu Dan Teknologi Kelautan Tropis* 14(2):191–204.
- IPCC.2014. Methodological Guidance on Lands with Wet and Drained Soilds, and Constructed Wetlands for Wastewater Treatment. In T. G. Hirashi, T., Krug, T., Tanabe, K., Srivastava, N., Basamsuren, J., Fukuda, M., and Troxler (Eds.), 2013 Supplement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Wetlands (eds). IPCC, Switzerland, 1 – 55. <http://www.ipcc-nggip.iges.or.jp>
- IPCC. 2018. Global Warming of 1.5°C. An IPCC Special Report on the Impacts of Global Warming of 1.5°C above Pre-Industrial Levels and Related Global Greenhouse Gas Emission Pathways, in the Context of Strengthening the Global Response to the Threat of Climate Change,. edited by and T. W. Masson-Delmotte, V., P. Zhai, H.-O. Pörtner, D. Roberts, J. Skea, P.R. Shukla, A. Pirani, W. Moufouma-Okia, C. Péan, R. Pidcock, S. Connors, J.B.R. Matthews, Y. Chen, X. Zhou, M.I. Gomis, E. Lonnoy, T. Maycock, M. Tignor.
- Irama, A. B. 2020. Perdagangan Karbon Di Indonesia: Kajian Kelembagaan Dan Keuangan Negara. *Info Artha*, 4(1), 83–102. <https://doi.org/10.31092/jia.v4i1.741>
- Irsadi, A., Anggoro, S., dan Soeprobawati, T.R. 2017. Analisis Penggunaan Lahan Di Sekitar Mangrove Untuk Pengelolaan Lingkungan Pesisir Semarang Berkelanjutan. *Prosiding Seminar Nasional Pendidikan Biologi dan Biologi Jurusan Pendidikan Biologi, Fakultas MIPA, Universitas Negeri Yogyakarta*. 19–24
- Irsadi, A., Anggoro, S., Soeprobawati, T.R., Helmi, M., dan Khair, A.S.E. 2019. Shoreline And Mangrove Analysis Along Semarang-Demak, Indonesia For Sustainable Environmental Management. *Jurnal Pendidikan IPA Indonesia*, 8(1), 1–11. <https://doi.org/10.15294/jpii.v8i1.17892>
- Istiqomah, F., Sasmito, B., dan Amarrohman, F.J. 2015. "Aplikasi Digital Shoreline Anaysis System (DSAS)." *Jurnal Geodesi Undip* 5:78–89.
- IUCN.2021. The IUCN Red List of Threatened Species. Version 2021-3. Available online: <https://www.iucnredlist.org> (di akses pada 30 august 2022)
- Jamili, Setiadi, D., Qayim, I., dan Guhardja, E. 2009. Struktur dan Komposisi Mangrove di Pulau Kaledupa Taman Nasional Wakatobi, Sulawesi Tenggara. *Indonesian Journal of Marine Sciences*, 14(4), 197–206. <https://doi.org/10.14710/ik.ijms.14.4.197-206>
- Kairo, J., Mbatha, A., Murithi, M. M., & Mungai, F. 2021. Total Ecosystem Carbon Stocks of Mangroves in Lamu, Kenya; and Their Potential Contributions to the Climate Change Agenda in the Country. *Frontiers in Forests and Global Change*, 4, 1–15. <https://doi.org/10.3389/ffgc.2021.709227>

- Kalay, D. E., Villian F. Lopulissa, and Yunita A. N. 2018. "Analisis Kemiringan Lereng Pantai Dan Distribusi Sedimen Pantai Perairan Negeri Waai Kecamatan Salahutu Provinsi Maluku (Coastline Slope Analysis and Sediment Distribution of Waai Village Waters, District of Salahutu, Maluku Province)." *Triton* 14(1):10–18.
- Katadata Insight Center. 2022. *Indonesia Carbon Trading Hand Book*. 60 hlm
- Kathiresan, K., Saravanakumar, K., Anburaj, R., & Gomathi, V. 2016. A simple method for assessing mangrove forest based on young plants and sesarmid crab holes. *Regional Studies in Marine Science*, 7, 204–210. <https://doi.org/10.1016/j.rsma.2016.07.003>
- Kauffman, J.B., Arifanti, V. B., Hernández T.H., del Carmen, J.G.M., Norfolk, J., Cifuentes, M., Hadriyanto, D., dan Murdiyarno, D. 2017. The jumbo carbon footprint of a shrimp: carbon losses from mangrove deforestation. *Frontiers in Ecology and the Environment*, 15(4), 183–188. <https://doi.org/10.1002/fee.1482>
- Kauffman, J.B. dan Donato, D.C. 2012. Protocols for the measurement, monitoring and reporting of structure, biomass and carbon stocks in mangrove forests. In Working Paper 86. CIFOR, Bogor. 37 Hlm
- Kementerian Lingkungan Hidup dan Kehutanan. 2020. Satu Peta Mangrove Nasional 2013-2019.
- Kepel, T. L., Suryono, D. D., Nur Afî Ati, R., Salim, H. L., & A. Hutahaean, A. (2017). Nilai Penting Dan Estimasi Ekonomi Simpanan Karbon Vegetasi Mangrove Di Kecamatan Kema, Sulawesi Utara. *Jurnal Kelautan Nasional*, 12(1), 19. <https://doi.org/10.15578/jkn.v12i1.6170>
- Keputusan Menteri Pertanian No.5/SK/Mentan/Bimas/VI/1984 Tentang Udang Program Intensifikasi Pertanian (INTAM)
- Keputusan Presiden No. 73 Tahun 2012 tentang Strategi Nasional Pengelolaan Ekosistem Mangrove
- Keputusan Presiden No. 73 Tahun 2015 Tentang Pelaksanaan Pengelolaan Wilayah Pesisir dan Pulau-Pualu Kecil di Tingkat Nasional.
- Khairunnisa, C., Thamrin, E., dan Prayogo, H. 2020. Keanekaragaman Jenis Vegetasi Mangrove di Desa Dusun Besar Kecamatan Pulau Maya Kabupaten Kayong Utara. *Jurnal Hutan Lestari*, 8(2), 325–336. <https://doi.org/10.26418/jhl.v8i2.40074>
- Kleemann, J., Baysal, G., Bulley, H.N.N., dan Fürst, C. 2017. Assessing driving forces of land use and land cover change by a mixed-method approach in north-eastern Ghana, West Africa. *Journal of Environmental Management*, 196, 411–442. <https://doi.org/10.1016/j.jenvman.2017.01.053>

- Ko, B. C., Kim, H.H., dan Nam, J.Y. 2015. Classification of potential water bodies using landsat 8 OLI and a combination of two boosted random forest classifiers. *Sensors* (Switzerland), 15(6), 13763–13777. <https://doi.org/10.3390/s150613763>
- Koroy, K., Muhammad, S.H., Nurafni, dan Boy, N. 2020. Pola Zonasi Vegetasi Ekosistem Mangrove Di Desa Juanga Kabupaten Pulau Morotai. *Jurnal Sumberdaya Akuatik Indopasifik*, 4(1), 11. <https://doi.org/10.46252/jsai-fpik-unipa.2020.vol.4.no.1.92>
- Kristensen, E. 2008. Mangrove Crabs As Ecosystem Engineers ; with Emphasis on Sediment Processes. *Journal of Sea Research*, 59, 30–43. <https://doi.org/10.1016/j.seares.2007.05.004>
- Kurniawan, C.A., Pribadi, R., dan Nirwani. 2014. “Struktur Dan Komposisi Vegetasi Mangrove Di Tracking Mangrove Kemujan Kepulauan Karimunjawa.” *Journal of Marine Research* 3(3):351–58.
- Kusmana, C. 2014. Distribution and Current Status of Mangrove Forest in Indonesia. Dalam Hanum, F., Latiff, A., Hakeem, K.R. dan Ozturk, M. (Eds.), Asia: Status, Challenges and Management Strategies (37-60). Springer Science+Business Media New York. New York.
- Kusmana, C. 2015. Integrated Sustainable Mangrove Forest Management. *Jurnal Pengelolaan Sumberdaya Alam dan Lingkungan*, 5 (1): 1 - 6
- Kusmana, C., and N. A. Azizah. 2022. “Species Composition and Vegetation Structure of Mangrove Forest in Pulau Rambut Wildlife Reserve, Kepulauan Seribu, DKI Jakarta.” *IOP Conference Series: Earth and Environmental Science* 950(1):0–10. doi: 10.1088/1755-1315/950/1/012020.
- Kusumaningtyas, M. A., Hutahaean, A. A., Fischer, H. W., Pérez-Mayo, M., Ransby, D., dan Jennerjahn, T. C. 2019. Variability in the organic carbon stocks, sources, and accumulation rates of Indonesian mangrove ecosystems. *Estuarine, Coastal and Shelf Science*, 218, 310–323. <https://doi.org/10.1016/j.ecss.2018.12.007>
- Lahjie A.M., Nouval B., Lahjie A.A., Ruslim Y., Kristiningrum R. 2019. Economic valuation from direct use of mangrove forest restoration in Balikpapan Bay, East Kalimantan, Indonesia. *F1000Res*, 3;8:9. doi: 10.12688/f1000research.17012.2. PMID: 31016011; PMCID: PMC6456837.
- Lestari, T. A., Priyanto, E.B., Fitriyanto, D., Kuswantoro, Rahadian, A., dan Vidyan, S. 2018. Kajian Risiko Bencana Pesisir, Studi Kasus Kelurahan Banten dan Kelurahan Sawah Luhur, Kecamatan Kasemen, Kota Serang, Banten; Desa Purworejo, Desa Morodemak, Desa Surodadi dan Desa Timbulsloko, Kabupaten Demak, Jawa Tengah. *Wetlands International Indonesia*, Bogor.120 Hlm.
- Mardliyah, R., Ario, R., & Pribadi, R. (2019). Estimasi Simpanan Karbon Pada Ekosistem Mangrove Di Desa Pasar Banggi Dan Tireman, Kecamatan Rembang Kabupaten Rembang. *Journal of Marine Research*, 8(1), 62–68. <https://doi.org/10.14710/jmr.v8i1.24330>

- Lewis, R. R. 2011. "How Successful Mangrove Forest Restoration Informs the Process of Successful General Forest Restoration." *Natl Wetl Newsl* 33(4):20–25.
- Lugina, M., Ginoga, K.L., Wibowo, A., Bainnaura, A., dan Partiani, T. 2011. Prosedur Operasi Standar (SOP) untuk Pengukuran Stok Karbon di Kawasan Konservasi. Pusat Penelitian dan Pengembangan Perubahan Iklim dan Kebijakan Badan Penelitian dan Pengembangan Kehutanan Kementerian Kehutanan, Republik Indonesia Kerjasama dengan International Tropical Timber Organization (ITTO) Bogor. 21 Hlm. <http://ceserf-itto.puslitsosekhut.web.id>
- Makaruku, A. dan Aliman, R. 2019. Mangrove Di Desa Piru Kecamatan Seram Barat Kabupaten Seram Bagian Barat. *Jurnal Rekayasa Lingkungan*, 19(2):1–17.
- Mardliyah, R., Ario, R. dan Pribadi, R. 2019. "Estimasi Simpanan Karbon Pada Ekosistem Mangrove Di Desa Pasar Banggi Dan Tireman, Kecamatan Rembang Kabupaten Rembang." *Journal of Marine Research* 8(1):62–68. doi: 10.14710/jmr.v8i1.24330.
- Marhwati, M., A. Rahmadani, dan A. Astry. 2021. "Pemberdayaan Masyarakat Dalam Upaya Pelestarian Ekosistem Pesisir Dan Hutan Mangrove Di Pulo Kambing Kecamatan Pitumpanua Kabupaten Wajo." *Journal Lepa-Lepa*, 386–392.
- Mariano, H., Aguilos, M., Dagoc, F. L., Sumalinab, B., dan Amparado, R. 2022. Abandoned Fishpond Reversal to Mangrove Forest: Will the Carbon Storage Potential Match the Natural Stand 30 Years after Reforestation?. *Forest*, 13, 1–19. <https://doi.org/10.3390/f13060847>
- Martuti, N.K.T., Susilowati, S.M.E. Sidiq, W.A.B.N., dan Mutiatari, D.P. 2018. "Peran Kelompok Masyarakat Dalam Rehabilitasi Ekosistem Mangrove Di Pesisir Kota Semarang." *Jurnal Wilayah Dan Lingkungan* 6(2):100. doi: 10.14710/jwl.6.2.100-114.
- Martuti, Tri, N.K., Soesilowatati, E., dan Na'am, M.F. 2017. Pemberdayaan Masyarakat Pesisir Melalui Penciptaan Batik Mangrove. *Jurnal Abdimas* 21(1):65–74.
- Masud, M.M., Aldakhil, A.M., Nassani, A.A., dan Azam, M.N. 2017. Community-Based Ecotourism Management for Sustainable Development of Marine Protected Areas in Malaysia. *Ocean and Coastal Management*, 136:104–12. doi: 10.1016/j.ocecoaman.2016.11.023.
- Mawazin, dan Subiakto, S. 2013. "Species Diversity and Composition of Logged over Peat Swamp Forest in Riau." *Forest Rehabilitation* 1(1):59–73.
- Miswadi, Siregar, S.H., dan Siregar, Y.I. 2015. "Strategi Pengelolaan Pengembangan Kawasan Penyangga Sebagai Hutan Cadangan Mangrove (Studi Kasus Ekosistem Mangrove Sungai Liung Kecamatan Bantan Kabupaten Bengkalis)." *Dinamika Lingkungan Indonesia* 2(2):73. doi: 10.31258/dli.2.2.p.73-86.
- Moore, L. J. 2000. Shoreline mapping techniques. *Journal of Coastal Research*, 16(1), 111–124.

- Msofe, N. K., Sheng, L., dan Lyimo, J. 2019. Land use change trends and their driving forces in the Kilombero Valley Floodplain, Southeastern Tanzania. *Sustainability* (Switzerland), 11(2). <https://doi.org/10.3390/su11020505>
- Mughofar, A., Masykuri, M., dan Setyono, P. 2018. Zonasi Dan Komposisi Vegetasi Hutan Mangrove Pantai Cengkrong Desa Karanggandu Kabupaten Trenggalek Provinsi Jawa Timur. *Jurnal Pengelolaan Sumberdaya Alam*, 8(1): 77-85
- Muhsoni, F.F. 2011. Penginderaan Jauh (Remote Sensing). Bangkalan-Madura: UTMPRESS, 168 hlm.
- Mukhlisi, Hendrarto, B., and Purnaweni, H. 2013. "Keanekaragaman Jenis Dan Struktur Vegetasi Mangrove Di Desa Sidodadi Kecamatan Padang Cermin Kabupaten Pesawaran, Provinsi Lampung." *Prosiding Seminar Nasional Pengelolaan Sumberdaya Alam Dan Lingkungan 2013* (April):218–25.
- Mulyatun. 2018. Pemberdayaan Masyarakat Pesisir Berbasis Potensi Lokal; Alternatif Ketahanan Pangan Berupa Tepung Magrove Mulyatun. *DIMAS*, 18(2):211–38.
- Munasikhah, S. dan Wijayati, P.A. 2022. Dari Hutan Mangrove Menjadi Tambak : Krisis Ekologis Di Kawasan Sayung Kabupaten Demak 1990-1999. *Journal of Indonesian History*, 10(2):129–40.
- Munasinghe, M. 1993. "Environmental Issues and Economic Decisions in Developing Countries." *World Development* 21(11):1729–48. doi: 10.1016/0305-750X(93)90080-S.
- Murdiyarso, D., Purbopuspito, J., Kauffman, J.B., Warren, M.W., Sasmito, S.D., Donato, D.C., Manuri, S., Krisnawati, H., Taberima, S., dan Kurnianto, S. 2015. The Potential of Indonesian Mangrove Forests for Global Climate Change Mitigation. *Nature Climate Change*, 5(12), 1089–1092. <https://doi.org/10.1038/nclimate2734>
- Muskananfola, M.R, Supriharyono, dan Febrianto, S. 2020. "Spatio-Temporal Analysis of Shoreline Change along the Coast of Sayung Demak, Indonesia Using Digital Shoreline Analysis System." *Regional Studies in Marine Science* 34. doi: 10.1016/j.rsma.2020.101060.
- Muttaqien, W. (2018). Strategi Adaptasi: Kisah Desa Kawa dan Desa Morodemak dalam Menghadapi Perubahan Populasi dan Ekologi. *Journal of Regional and Rural Development Planning*, 2(2), 151. <https://doi.org/10.29244/jp2wd.2018.2.2.151-170>
- Nahruddin. 2017. Komposisi dan struktur vegetasi dalam potensinya sebagai parameter hidrologi dan erosi. *Jurnal Hutan Tropis*, 5 (2), 6–12.
- Nanlohy, L.H., Maruapey, A., dan Maulum, Y. 2017. Komposisi Jenis Dan Zonasi Mangrove Di Kampung Gisim.. *Median*, 9 (2), 25–35.
- Nijamdeen, F.M., Gedera, T.W., Ratsimbazafy, H.A., Kodikara, K.A.S., Nijamdeen, T.W.G.F.A., Thahira, T., Peruzzo, S., Dahdouh-Guebas, F., dan Hugé, J. 2023. Mangrove Management in Sri Lanka and Stakeholder Collaboration: A Social

- Network Perspective. *Journal of Environmental Management*, 330. doi: 10.1016/j.jenvman.2022.117116.
- Ndiaye, M. L., Traore, V.B., dan Diaw, A.T. 2017. Remote sensing based vegetation extraction and change detection in the National Park of Niokolo-Koba in southeast of Senegal. *Applied Journal of Environmental Engineering Science*, 3 (4), 373–393.
- Nehren, U., dan Wicaksono, P. 2018. Mapping soil carbon stocks in an oceanic mangrove ecosystem in Karimunjawa Islands, Indonesia. *Estuarine, Coastal and Shelf Science*, 214, 185–193. <https://doi.org/10.1016/j.ecss.2018.09.022>
- Newbold, T. 2018. Future effects of climate and land-use change on terrestrial vertebrate community diversity under different scenarios. *Proceedings of the Royal Society B: Biological Sciences*, 285 (1881), 1–9. <https://doi.org/10.1098/rspb.2018.0792>
- Nur, S. H., dan Hilmi, E. 2021. The correlation between mangrove ecosystem with shoreline change in Indramayu coast. *IOP Conference Series: Earth and Environmental Science*, 819(1). <https://doi.org/10.1088/1755-1315/819/1/012015>
- Nurhamidah, N., Junaidi, A., dan Kurniawan, M. 2018. Tinjauan Perubahan Tata Guna Lahan Terhadap Limpasan Permukaan. Kasus : DAS Batang Arau Padang. *Jurnal Rekayasa Sipil (JRS-Unand)*, 14(2), 131. <https://doi.org/10.25077/jrs.14.2.131-138.2018>
- Omo-Irabor, O.O., Olobaniyi, S.B., Akunna, J., Venus, V., Maina, J.M., dan Paradzayi, C. 2011. Mangrove vulnerability modelling in parts of Western Niger Delta, Nigeria using satellite images, GIS techniques and Spatial Multi-Criteria Analysis (SMCA). *Environmental Monitoring and Assessment*, 178(1–4), 39–51. <https://doi.org/10.1007/s10661-010-1669-z>
- Onrizal, O. 2010. Perubahan Tutupan Hutan Mangrove di Pantai Timur Sumatera Utara Periode 1977-2006. *Jurnal Biologi Indonesia*, 6(2), 163–172
- Ounanian, K., Carballo-Cárdenas, E., Jan P. M., Tatenhove, V., Delaney, A., Papadopoulou, K.N., dan Smith, C.J. 2018. Governing Marine Ecosystem Restoration: The Role of Discourses and Uncertainties. *Marine Policy*, 96:136–44. doi: 10.1016/j.marpol.2018.08.014.
- Pramudji. 2001. Ekosistem Hutan Mangrove Dan Peranannya.” *Oseana*, XXVI(4):13–23.
- Pramudji. 2015. Status Mangrove Di Kawasan Pesisir Utara Jawa Barat (Larawang Dan Indramayu) Dan Upaya Pengelolaanya. *Oseana*, 9(2):43–52.
- Pendleton, L., Donato, D.C., Murray, B.C., Crooks, S., Jenkins, W.A., Sifleet, S., Craft, C., Fourqurean, J.W., Kauffman, J.B., Marbà, N., Megonigal, P., Pidgeon, E., Herr, D., Gordon, D., dan Baldera, A. 2012. Estimating Global “Blue Carbon” Emissions from Conversion and Degradation of Vegetated Coastal Ecosystems. *PLoS ONE*, 7(9), 1–7. <https://doi.org/10.1371/journal.pone.0043542>

Peraturan Daerah Kabupaten Demak No. 1 Tahun 2020 Tentang Perubahan Atas Peraturan Daerah Kabupaten Demak No. 6 Tahun 2011 Tentang Rencana Tata Ruang Wilayah Kabupaten Demak Tahun 2011-2031

Peraturan Gubernur No. 24 Tahun 2019 Tentang Kebijakan Dan Strategi Pengelolaan Ekosistem Mangrove Provinsi Jawa Tengah

Peraturan Pemerintah No. 22 Tahun 2021 Tentang Penyelenggaraan Perlindungan Dan Pengelolaan Lingkungan Hidup.

Peraturan Presiden Republik Indonesia No. 73 Tahun 2012 Tentang Strategi Nasional Pengelolaan Ekosistem Mangrove.

Peraturan Presiden Republik Indonesia No. 98 Tahun 2021 Tentang Penyelenggaraan Nilai Ekonomi Karbon Untuk Pencapaian Kontribusi Yang Ditetapkan Secara Nasional dan Pengendalian Emisi Gas Rumah Kaca Dalam Pembangunan Nasional.

Pham, V. H., Luu, V. D., Nguyen, T. T., & Koji, O. (2017). Will restored mangrove forests enhance sediment organic carbon and ecosystem carbon storage?. *Regional Studies in Marine Science*, 14, 43–52. <https://doi.org/10.1016/j.rsma.2017.05.00>

Pratiwi, D.V.N.I., Pribadi, R., dan Agus, A.D.S. 2014. Kajian Perubahan Luas Mangrove Menggunakan Metode NDVI Data Citra Satelit Landsat 7 ETM+ dan Landsat 8 ETM+ Tahun 1999, 2003 dan 2013 di Pesisir Desa Berahan Kulon dan Desa Berahan Wetan Kecamatan Wedung, Demak. *Journal of Marine Research*, 3(4), 650–657.

Primasti, T. P. G., Hariyadi, Rochaddi, B., Widada, S., dan Widiaratih, R. 2021. Pemantauan Kerentanan Fisik di Pesisir Kabupaten Demak (Studi Kasus Perubahan Garis Pantai). *Indonesian Journal of Oceanography*, 03(1), 1-11

Purnobasuki, H. 2012. Pemanfaatan Hutan Mangrove sebagai Penyimpan Karbon. *Buletin PSL Universitas Surabaya*, 28, 3–5.

Puryono, S., dan Suryanti, S. 2019. Degradation of Mangrove Ecosystem in Karimunjawa Island Based on Public Perception and Management. *IOP Conference Series: Earth and Environmental Science*, 246(1), 1–10. <https://doi.org/10.1088/1755-1315/246/1/012080>

Rachman, D. 2014. “Analisis Kelembagaan Kelompok Petani Tambak Dalam Pengembangan Usaha Budidaya.” *Jurnal Litbang Provinsi Jawa Tengah* 12(1):55–70.

Rahayu, L., Subiyanto, S., dan Yuwono, B.D. 2015. Kajian Pemanfaatan Data Penginderaan Jauh Untuk Identifikasi Objek Pajak Bumi Dan Bangunan. *Geodesi Undip*, 4(1), 20–31

Rahman, M.M, Jiang, Y., dan Irvine, K. 2018. “Assessing Wetland Services for Improved Development Decision-Making: A Case Study of Mangroves in Coastal Bangladesh.” *Wetlands Ecology and Management* 26(4):563–80. doi: 10.1007/s11273-018-9592-0.

- Rahmania, R., Kepel, T.L., Arifin, L., dan Yulius. 2019. Evaluating the Effectiveness of Mangroves Rehabilitation Efforts by Comparing the Beta Diversity of Rehabilitated and Natural Mangroves. *IOP Conference Series: Earth and Environmental Science* 404(1). doi: 10.1088/1755-1315/404/1/012070.
- Ritohardoyo, S., dan Ardi, G.B. 2014. Arahan Kebijakan Pengelolaan Hutan Mangrove: Kasus Pesisir Kecamatan Teluk Pakedai, Kabupaten Kuburaya, Provinsi Kalimantan Barat. *Geografi*, 11(1), 43–57
- Rudianto, R., Bengen, D. G., dan Kurniawan, F. 2022. Causes and effects of mangrove ecosystem damage on carbon stocks and absorption in East Java, Indonesia. *Sustainability* (Switzerland), 12(24), 1–17. <https://doi.org/10.3390/su122410319>
- Sachin, S. M., Yadav, V.K., Pal, S., Karmakar, S., dan Bharti, V.S. 2020. Survey Based Economic Evaluation of Ecosystem Services of Mangrove from Uttar Kannada District of Karnataka, India. *Journal of Environmental Biology*, 41(5):980–86. doi: 10.22438/JEB/41/5/MRN-1216.
- Sampurno, R..M., dan Thoriq, A. 2016. Klasifikasi Tutupan Lahan Menggunakan Citra Landsat 8 Operational Land Imager (OLI) di Kabupaten Sumedang. *Journal Teknotan*, 10(2), 61–70. [https://doi.org/10.1016/s0376-7388\(00\)85017-6](https://doi.org/10.1016/s0376-7388(00)85017-6)
- Sanjoto, T.B., Sunarko, dan Parman, S. 2016. Tanggap Diri Masyarakat Pesisir Dalam Menghadapi Bencana Erosi Pantai (Studi Kasus Masyarakat Desa Bedono Kabupaten Demak). *Jurnal Geografi : Media Informasi Pengembangan Dan Profesi Kegeografian*, 13(1), 90–100. <https://doi.org/10.15294/jg.v13i1.7993>
- Santoso, A.B., Kurniawan, E., dan Syifauddin, M. 2019. The Development Of Eco-Edutourism Village In Mangrove Tapak Forest Area, Tugurejo, Tugu Sub-District As A Community-Based Tourism. *CoRSIA*, 313:328–333. doi: 10.2991/icorsia-18.2019.79.
- Saputra, B.A., Rudi, P., Suryono, C.A. 2019. Biologi Mangrove Ditinjau Dari Nilai Penting Keanekaragaman , Dominansi. *Journal of Marine Research*, 8(4):328–32.
- Saru, A., Idrus, R., and Ilham, M. 2019. The Mangrove Ecosystem Potential for Educational Tour Development Around Pond Education of Hasanuddin University (Unhas) in Mallusetasi District, Barru Regency. *Jurnal Ilmu Kelautan SPERMONDE*, 5(2):70–76. doi: 10.20956/jiks.v5i2.8934.
- Sasmito, B. 2020. Analisis Perubahan Garis Pantai Akibat Kenaikan Muka Air Laut Pantai Kabupaten Demak. *Jurnal Geodesi Dan Geomatika*, 3(2):178–84.
- Sasmito, S.D., Kuzyakov, Y., Lubis, A.A., Murdiyarso, D., Hutley, L.B., Bachri, S., Friess, D.A., Martius, C., dan Borchard, N. 2020. Organic Carbon Burial and Sources in Soils of Coastal Mudflat and Mangrove Ecosystems. *Catena*, 187. doi: 10.1016/j.catena.2019.104414.
- Simamora, F.B., Sasmito, B., dan Hani'ah. 2015. Kajian Metode Segmentasi Untuk Identifikasi Tutupan Lahan Dan Luas Bidang Tanah Menggunakan Citra Pada Google Earth (Studi. *Jurnal Geodesi Undip*, 4(4), 43–51.

- Sitoe, A. A., Mandlate, L. J. C., & Guedes, B. S. (2014). Biomass and carbon stocks of Sofala Bay mangrove forests. *Forests*, 5(8), 1967–1981. <https://doi.org/10.3390/f5081967>
- Sjafrie dan Mirah, N.D. 2016. "Jasa Ekosistem Pesisir." *Oseana* XLI(4):25–40.
- Soeprobawati, T. R., N. D. Takarina, P. S. Komala, L. Subehi, M. Wojewódka-Przybył, J. Jumari, and R. Nastuti. 2023. "Sediment Organic Carbon Stocks in Tropical Lakes and Its Implication for Sustainable Lake Management." *Global Journal of Environmental Science and Management* 9(2):173–92. doi: 10.22034/gjesm.2023.02.01.
- Soeprobawati, T.R., Jumari J., Rini, T., Suhry, C., dan Gell, P. 2021. Land-Use Changes Concerning the Riparian Vegetation in Galela Lake , North Maluku , Indonesia. *Ecological Engineering* 170(2021):106368. doi: 10.1016/j.ecoleng.2021.106368.
- Sriyana. 2011. Kajian Karakteristik Das Tuntang Dan Model Pengelolaan Das Terpadu. *Teknik* 32 (3):180–86.
- Su, J., W. Cai, J. Brodeur, B. Chen, N. Hussain, Y. Yao, C. Ni, J.M. Testa, M. Li, X. Xi, W. Ni, K.M. Scaboo, Y. Xu, J. Cornwell, C. Gurbisz, M. Owens, G.G. Waldbusser, M. Dai, dan W.M. Kemp. 2020. Chesapeake Bay acidification buffered by spatially decoupled carbonate mineral cycling. *Nature Geoscience*. <https://doi.org/10.1038/s41561-020-0584-3>
- Suello, R.H., Hernandez, S.L., Bouillon, S., dan Belliard, J.P. 2021. Mangrove Sediment Organic Carbon Storage and Sources in Relation to Forest Age and Position along a Deltaic Salinity Gradient. *Biogeosciences* (July):1–32.
- Sugianto. 2019. Diversifikasi Produk Olahan Mangrove Bisa Meningkatkan Kesejahteraan Masyarakat Pesisir Indramayu. *Mangifera Edu*, 4(1):73–79. doi: 10.31943/mangiferaedu.v4i1.557.
- Suniada, K. I. 2015. Deteksi Perubahan Garis Pantai Di Kabupaten Jembrana Bali Dengan Menggunakan Teknologi Penginderaan Jauh. *Jurnal Kelautan Nasional*, 10(1), 13–20.
- Suryono, S., Soenardjo, N., Wibowo, E., Ario, R., dan Rozy, E.F. 2018. Estimasi Kandungan Biomassa dan Karbon di Hutan Mangrove Perancak Kabupaten Jembrana, Provinsi Bali. *Buletin Oseanografi Marina*, 7(1), 1. <https://doi.org/10.14710/buloma.v7i1.19036>
- Susanti, Y., Syarifudin, dan Helmi, M. 2020. Analisa Perubahan Penggunaan Lahan Di Daerah Aliran Sungai Serayu Hulu Dengan Penginderaan Jauh dan Sistem Informasi Geografis. *BIOEDUKASI: Jurnal Pendidikan Biologi*, 13(1), 23–30.
- Susilowati, M.W., Purnomo, P.W., dan Solichin, A. 2020. Estimation of CO₂ Absorption Based on Carbon Storage in the Mangrove Forest of Tambakbulusan Village, Demak Jawa Tengah. *Pasir Laut*, 4(1), 16–21

- Sutikno, S. 2014. "Rate of Shoreline Change Analysis of Bengkalis Coast Using Satellite Imagery Data." *The 31st Annual Conference of Indonesian Association of Hydraulic Engineer* (April):616–25. doi: 10.13140/RG.2.1.2074.5766.
- Suwardi, A. B., Navia, Z.I., dan Sofiyan. 2017. Komposisi jenis dan cadangan karbon tersimpan di hutan mangrove Kuala Langsa, Aceh. *Prosiding Seminar Nasional Biodiversitas Dan Ekologi Tropika Indonesia Ke-4 Dan Kongres Penggalang Taksonomi Tumbuhan Indonesia Ke-12*, November, 19–27.
- Syukri, M., Mashoreng, S., Werorilangi, S., dan Isyritini, R. 2018. Kajian stok karbon mangrove di Bebanga Kabupaten Mamuju Sulawesi Barat. *Prosiding Simposium Nasional Kelautan Dan Perikanan V*, 335–342
- Taillardat, P., Friess, D.A., dan Lupascu, M. 2018. Mangrove blue carbon strategies for climate change mitigation are most effective at the national scale. *Biology Letters*, 14(10), 1–6. <https://doi.org/10.1098/rsbl.2018.0251> Taylor, M. A., dan Stephenson, K.A. 2017. Impacts of climate change on sea temperature in the coastal and marine environments of Caribbean small island developing states (SIDS). *Science Review*, 1994, 23–30.
- Tefarani, Rahmadyan, Martuti, N.K.T dan Ngabekti, S. 2019. "Keanekaragaman Spesies Mangrove Dan Zonasi Di Wilayah Kelurahan Mangunharjo Kecamatan Tugu Kota Semarang." *Life Science* 8(1):41–53. doi: 10.15294/lifesci.v8i1.29989.
- Thampanya, U., Vermaat, J.E., Sinsakul, S., dan Panapitukkul, N. 2006. Coastal erosion and mangrove progradation of Southern Thailand. *Estuarine, Coastal and Shelf Science*, 68(1), 75–85. <https://doi.org/10.1016/j.ecss.2006.01.011>
- Thoai, D. T, Dang, A.N. dan Oanh, N.T.K. 2019. "Analysis of Coastline Change in Relation to Meteorological Conditions and Human Activities in Ca Mau Cape, Viet Nam." *Ocean and Coastal Management* 171(February 2018):56–65. doi: 10.1016/j.ocecoaman.2019.01.007.
- Thomas, N., Lucas, R., Bunting, P., Hardy, A., Rosenqvist, A., dan Simard, M. 2017. Distribution and drivers of global mangrove forest change, 1996–2010. *PLoS ONE*, 12(6), 5–24. <https://doi.org/10.1371/journal.pone.017930>
- Tinh, P.H., Hanh, N.T.H., Thanh, V.V., Tuan, M.S., Quang, P.V., Sharma, S., dan MacKenzie, R.A. 2020. A Comparison of Soil Carbon Stocks of Intact and Restored Mangrove Forests in Northern Vietnam. *Forests*, 11(6):1–10. doi: 10.3390/f11060660.
- Titisari, P.W., Chahyana, I., Janna, N., Nurdila, H., dan Widari, R.S. 2022. Management Strategies of Mangrove Biodiversity and the Role of Sustainable Ecotourism in Achieving Development Goals. *Journal of Tropical Biodiversity and Biotechnology*, 7(3). doi: 10.22146/jtbb.72243.

- Thu, P., Tan, T.V., Pham, P., Chien, D., Huyen, D.L., Nguyen, T., Hoang, V.T., Viet, N., Hoang, H., Dao, T.L., Nguyen, T.L.C., dan Tien, D. 2019. Opportunities and Challenges for Mangrove Management in Vietnam. *Occasional Paper*, 197. Bogor, Indonesia: CIFOR.
- Thuy, P. 2021. Mangrove environmental services and local livelihoods in Vietnam. *Mangrove Environmental Services and Local Livelihoods in Vietnam*, 339, 1–4. <https://doi.org/10.17528/cifor/008148>
- Tihurua, E. F., Agustiani, E.L., dan Rahmawati, K. 2020. Karakter Anatomi Daun sebagai Bentuk Adaptasi Tumbuhan Penyusun Zonasi Mangrove di Banggai Kepulauan, Provinsi Sulawesi Tengah. *Jurnal Kelautan Tropis*, 23(2), 255–264. <https://doi.org/10.14710/jkt.v23i2.7048>
- Toure, S., Diop, O., Kpalma, K., dan Maiga, A.S. 2019. Shoreline detection using optical remote sensing: A review. *ISPRS International Journal of Geo-Information*, 8(75), 1–21. <https://doi.org/10.3390/ijgi8020075>
- Triwahyuni, A., dan Asai, K. 2014. Numerical Simulation on Shoreline Change in Western Region of Badung Regency, Bali, Indonesia. *Journal of Environment*, 1(1), 10–17.
- Ullman, R., Bilbao-Bastida, V., dan Grimsditch, G. 2013. Including Blue Carbon in climate market mechanisms. *Ocean and Coastal Management*, 83, 15–18. <https://doi.org/10.1016/j.ocecoaman.2012.02.009>
- Undang-Undang Republik Indonesia No. 1 Tahun 2014 Tentang Perubahan Atas Undang Undang No. 27 Tahun 2007 Tentang Pengelolaan Wilayah Pesisir dan Pulau-Pulau Kecil
- Undang-Undang Republik Indonesia No. 5 Tahun 1990 Tentang Konseravsi Sumber Daya Alam Hayati dan Ekosistem.
- Utami, W.S., Subardjo, P., dan Helmi, M. 2017. Studi Perubahan Garis Pantai Akibat Kenaikan Muka Air Laut di Kecamatan Sayung, Kabupaten Demak. *Journal of Oceanography*, 6(1), 281–287.
- Van Lavieren, H., Spalding, M., Alongi, D., Kainuma, M., Clüsener-Godt, M., and Adeel, Z. 2012. Securing the Future of Mangroves. A Policy Brief. UNU-INWEH, UNESCO-MAB with ISME, ITTO, FAO, UNEP-WCMC and TNC. 53 hlm.
- Vincentius, A., Nessa, M. N., Jompa, J., Saru, A., Nurdin, N., dan Rani, C. 2018. Influential factors analysis towards mangrove cover and production of demersal fish in Maumere Bay, Indonesia. *AACL Bioflux*, 11(3), 810–822.
- Wada, S., Agostini, S., Harvey, B.P., Omori, Y., dan Hall-Spencer, J.M. 2021. Ocean Acidification Increases Phytobenthic Carbon Fixation And Export In A WarmTemperate System. *Estuarine, Coastal and Shelf Science*, 250(November 2020), 107113. <https://doi.org/10.1016/j.ecss.2020.107113>

- Wafdan, L. 2020. Identifikasi Klasifikasi Lahan Di Kecamatan Pakem Kabupaten Sleman Berdasarkan Interpretasi Citra Sentinel-2. *Jurnal Ilmiah Penalaran Dan Penelitian Mahasiswa*, 4(1), 105–128.
- Ward, P. J., Marfai, M. A., Yulianto, F., Hizbaron, D. R., dan Aerts, J. C. J. H.. 2011. Coastal Inundation and Damage Exposure Estimation: A Case Study for Jakarta. *Natural Hazards*, 56(3):899–916. doi: 10.1007/s11069-010-9599-1.
- Ward, R. D., Friess, D.A., Day, R.H., dan Mackenzie, R.A. 2016. Impacts Of Climate Change On Mangrove Ecosystems: A Region By Region Overview. *Ecosystem Health and Sustainability*, 2(4). <https://doi.org/10.1002/ehs2.1211>
- Wardani, D.W., Danoedoro, P., dan Susilo, B. 2016. Kajian Perubahan Penggunaan Lahan Berbasis Citra Satelit Penginderaan Jauh Resolusi Menengah dengan Metode Multi Layer Perceptron dan Markov Chain. *Majalah Geografi Indonesia (MGI)*, 30(1), 9–18.
- Weitzner, H. 2015. Coastal Processes and Causes of Shoreline Erosion and Accretion. Sea Grant New York, 1–4
- Wetlands International. 2020. Data Dampak Banjir Rob di Kabupaten Demak. 10 Hlm
- Widayanti, R. 2010. Formulasi Model Pengaruh Perubahan Tata Guna Lahan Terhadap Angkutan Kota Di Kota Depok. *Jurnal Tata Guna Lahan*, 1–10.
- Wiggers, M. J., Nuarsa, I.W., dan Putra, I.D.N. 2020. Analisis Perubahan Penggunaan Lahan Pesisir Di Kecamatan Batu Layar, Kabupaten Lombok Barat Pada Tahun 2002 dan 2019. *Journal of Marine Research and Technology*, 3(2), 68. <https://doi.org/10.24843/jmrt.2020.v03.i02.p02>
- Winarso, G., Judianto, dan Budhiman, S. 2001. The application remote sensing data for coastal study. 22nd Asian Conference on Remote Sensing, 1, 5–9.
- Wisha, U.J., dan Heriati, A. 2016. Bathymetry and Hydrodynamics in Pare Bay Waters During Transitional Seasons (September- October). *OmniAkuatika* 12(2):1–10.
- Wolanski, E. dan Elliott, M. 2015. Estuarine Ecohydrology: An Introduction: Second Edition. *estuarine Ecohydrology: An Introduction: Second Edition*:1–321.
- World Bank. 2021. State and Trends of Carbon Pricing 2021. In State and Trends of Carbon Pricing 2021 (Issue May). <https://doi.org/10.1596/978-1-4648-1728-1>
- Xu, H. 2006. Modification of normalised difference water index (NDWI) to enhance open water features in remotely sensed imagery. *International Journal of Remote Sensing*, 27(14), 3025–3033. <https://doi.org/10.1080/01431160600589179>
- Yani, E. 2006. “Struktur Dan Kemampuan Tumbuh Kembali Hutan Mangrove Cikiperan Cilacap.” *Biosfera* 23(3):124–29.

Zakaria, R. M., Chen, G., Chew, L. L., Sofawi, A. B., Moh, H. H., Chen, S., Teoh, H. W., dan Adibah, S. Y. S. N. 2021. Carbon stock of disturbed and undisturbed mangrove ecosystems in Klang Straits, Malaysia. *Journal of Sea Research*, 176, 102113. <https://doi.org/10.1016/j.seares.2021.102113>

Zhang, K., Liu, H., Li, Y., Xu, H., Shen, J., Rhome, J., Smith, T.J., 2012. The role of mangroves in Attenuating storm surge. *Estuar. Coast. Shelf Sci.* 102, 11–23. <http://dx.doi.org/10.1016/j.ecss.2012.02.021>



SEKOLAH PASCASARJANA