

DAFTAR PUSTAKA

- Adirama, A. Z., Dimas Permana, R., Alfajrin, A. C. A., Dwiputra, M. A., Widiya, N., Dakhi, S. V. S., & Fira Destina, W. (2024) Analysis of Mangrove Forest Condition and Carbon Absorption Potential Using Sentinel-2 Data in Pesawaran Regency. *Jurnal Hutan Tropis*, 12(3), 354–369.
- Ain, R. K., Pribadi, R., & Suryono. 2025. Analisis Kesesuaian Lahan Rehabilitasi Mangrove di Desa Pasarbanggi, Desa Tireman, dan Desa Kabongan Lor, Kecamatan Rembang. *Jurnal Kelautan Tropis*, 28(3), 403–426.
- Albasit, L. Z., Pribadi, R., & Pramesti, R. 2022. Estimasi Stok Karbon Mangrove Pasca Rehabilitasi di Desa Kaliwlingi, Brebes Menggunakan Citra Sentinel-2. *Journal of Marine Research*, 11(4), 620–640. <https://doi.org/10.14710/jmr.v11i4.31734>
- Andini, S. W., Prasetyo, Y., & Sukmono, A. 2018. Analisis Sebaran Vegetasi dengan Citra Satelit Sentinel Menggunakan Metode NDVI dan Segmentasi (Studi Kasus: Kabupaten Demak). *Jurnal Geodesi Undip Januari*, 7(1), 14–24.
- Anggraini, D. D., & Marfai, M. A. 2017. Analisis Jasa Ekosistem Mangrove dalam Mengurangi Erosi Pantai di Sebagian Pesisir Kecamatan Rembang Kabupaten Rembang. *Jurnal Bumi Indonesia*, 6(3).
- Anjani, R., Ihsan, I. M., Amru, K., Aryantie, M. H., Oktivia, R., Saraswati, A. A., Ikhwanuddin, Moch., Winanti, W. S., Sudinda, T. W., Kujaeri, S., & Listiani, T. 2023. Analisis potensi, penentuan strategi, dan penyusunan green map untuk pengembangan eco-village berbasis mangrove di Kabupaten Indramayu. *Jurnal Teknologi Lingkungan*, 24(2), 207–219.
- Annas, N., Suryono, & Pribadi, R. 2013. Kajian Konservasi Ekosistem Mangrove di Desa Pasar Banggi, Kabupaten Rembang. In *Journal Of Marine Research*, 2(2). <http://ejournal-s1.undip.ac.id/index.php/jmr>
- Apriani, A., & Delistiani. 2025. Mangrove Ecosystem Degradation through Land Conversion in Indonesia's Coastal Areas: A Review. *Journal of Epidemiology and Health Science*, 2(2), 7–16. <https://doi.org/10.36685/jehs.v2i2.1201>
- Aqila, N., & Haryono, E. 2017. Kuantifikasi Kandungan Karbon pada Hutan Rehabilitasi Mangrove Pasar Banggi, Rembang, Jawa Tengah. *Jurnal Bumi Indonesia*, 6(4), 1–10.
- Ardang, D. M., Soenardjo, N., & Taufiq-SPJ, N. 2023. Hubungan Tekstur Sedimen Terhadap Vegetasi Mangrove Di Desa Pasar Banggi, Kabupaten Rembang. *Journal of Marine Research*, 12(3), 519–526. <https://doi.org/10.14710/jmr.v12i3.35185>
- Ardiansyah, I. & Silmi, N. F. 2022. Strategi Pengembangan Destinasi Wisata Kuliner di Kota Tangerang Dengan Matriks SWOT dan Analisis QSPM (Studi Kasus Kawasan Laksa Tangerang). *Jurnal Industri Pariwisata*, 4(2): 141-160.
- Arifanti, V. B., Novita, N., Subarno, & Tosiani, A. 2021. Mangrove deforestation and CO₂ emissions in Indonesia. *IOP Conference Series: Earth and*

- Environmental Science*, 874(1). <https://doi.org/10.1088/1755-1315/874/1/012006>
- Aulia, Z. S., Pribadi, R., & Helmi, M. 2024. The Use of Vegetation Indices on Temporal Mangrove Condition: A Case Study on Timbulsloko and Bedono, Demak. *Jurnal Ilmiah Perikanan Dan Kelautan*, 16(1), 220–233. <https://doi.org/10.20473/jipk.v16i1.43935>
- Azzahid, H. W., Khumaeroh, Setyowati, D. L., & Hardati, P. 2024. The Role of the Community in Utilizing Mangrove Forests for Addressing Coastal Erosion in Pasar Banggi Village, Rembang District, Rembang Regency. *International Journal of Research and Review*, 11(12), 350–358. <https://doi.org/10.52403/ijrr.20241238>
- Badan Standardisasi Nasional. 2019. Pengukuran dan penghitungan cadangan karbon-Pengukuran lapangan untuk penaksiran cadangan karbon berbasis lahan (*land-based carbon accounting*). www.bsn.go.id
- Baloloy, A. B., Blanco, A. C., Raymund Rhommel, R. R. C., & Nadaoka, K. 2020. Development and application of a new mangrove vegetation index (MVI) for rapid and accurate mangrove mapping. *ISPRS Journal of Photogrammetry and Remote Sensing*, 166, 95–117. <https://doi.org/10.1016/j.isprsjprs.2020.06.001>
- Banerjee, K., Sahoo, C. K., Bal, G., Mallik, K., Paul, R., & Mitra, A. 2020. High blue carbon stock in mangrove forests of Eastern India. *Tropical Ecology*, 61, 150–167. <https://doi.org/10.1007/s42965-020-00072-y>
- Beselly, S. M., Wegen, M. van Der, Reyns, J., Grueters, U., Dijkstra, J. T., & Roelvink, D. 2025. Strategic mangrove restoration increases carbon stock capacity. *Communications Earth and Environment*, 6, 422. <https://doi.org/10.1038/s43247-025-02401-2>
- Blanton, A., Ewane, E. B., McTavish, F., Watt, M. S., Rogers, K., Daneil, R., Vizcaino, I., Gomez, A. N., Arachchige, P. S. P., King, S. A. L., Galgamuwa, G. A. P., Peñaranda, M. L. P., al-Musawi, L., Montenegro, J. F., Broadbent, E. N., Zambrano, A. M. A., Hudak, A. T., Swangjang, K., Valasquez-Camacho, L. F., ... Mohan, M. 2024. Ecotourism and mangrove conservation in Southeast Asia: Current trends and perspectives. In *Journal of Environmental Management* (Vol. 365). Academic Press. <https://doi.org/10.1016/j.jenvman.2024.121529>
- Castillo, J. A. A., Apan, A. A., Maraseni, T. N., & Salmo, S. G. 2017. Estimation and mapping of above-ground biomass of mangrove forests and their replacement land uses in the Philippines using Sentinel imagery. *ISPRS Journal of Photogrammetry and Remote Sensing*, 134, 70–85. <https://doi.org/10.1016/j.isprsjprs.2017.10.016>
- Chave, J., Andalo, C., Brown, S., Cairns, M. A., Chambers, J. Q., Eamus, D., Fölster, H., Fromard, F., Higuchi, N., Kira, T., Lescure, J. P., Nelson, B. W., Ogawa, H., Puig, H., Riéra, B., & Yamakura, T. 2005. Tree allometry and improved estimation of carbon stocks and balance in tropical forests. *Oecologia*, 145(1), 87–99. <https://doi.org/10.1007/s00442-005-0100-x>
- Chen, H., He, Y., Zhang, L., Yao, S., Yang, W., Fang, Y., Liu, Y., & Gao, B. 2023. A landslide extraction method of channel attention mechanism U-Net network

- based on Sentinel-2A remote sensing images. *International Journal of Digital Earth*, 16(1), 552–577. <https://doi.org/10.1080/17538947.2023.2177359>
- Choudhary, B., Dhar, V., & Pawase, A. S. 2024. Blue carbon and the role of mangroves in carbon sequestration: Its mechanisms, estimation, human impacts and conservation strategies for economic incentives. *Journal of Sea Research*, 199. <https://doi.org/10.1016/j.seares.2024.102504>
- Come, J., Peer, N., Nhamussua, J. L., Miranda, N. A., Macamo, C. C., Cabral, A. S., Madivadua, H., Zacarias, D., Narciso, J., & Snow, B. 2023. A socio-ecological survey in Inhambane Bay mangrove ecosystems: Biodiversity, livelihoods, and conservation. *Ocean and Coastal Management*, 244, 106813. <https://doi.org/10.1016/j.ocecoaman.2023.106813>
- Donato, D. C., Kauffman, J. B., Murdiyarso, D., Kurnianto, S., Stidham, M. & Kannien, M. 2011. Mangroves among the most carbon-rich forests in the tropics. *Nature Geoscience*, 4: 293-297.
- Earth Observing System. 2024. Diakses pada 28 Juli 2025. <https://eos.com>
- Firsbach, F., Senk, D., & Babich, A. 2022. Multi-Step Recycling of BF Slag Heat via Biomass for CO₂ Mitigation. *Minerals*, 12(2). <https://doi.org/10.3390/min12020136>
- Firsta, S. W., Sugara, A., & Anggoro, A. 2025. Estimasi Cadangan Karbon Mangrove Menggunakan Citra Sentinel-2A di Desa Banjarsari Pulau Enggano. *Jurnal Kelautan Tropis*, 28(3), 539-552.
- Ginting, D. P., & Andarini, S. 2021. Strategi Pemasaran Dengan Analisis Swot Pada Kopi Zest Sidikalang Di Kabupaten Dairi, Sumatera Utara. *Jurnal Ilmu Komputer Dan Bisnis*, 12(2), 1–10. <https://doi.org/10.47927/jikb.v12i2.118>
- Han, L., Yang, G., Dai, H., Xu, B., Yang, H., Feng, H., Li, Z., & Yang, X. 2019. Modeling maize above-ground biomass based on machine learning approaches using UAV remote-sensing data. *Plant Methods*, 15(10), 1–19. <https://doi.org/10.1186/s13007-019-0394-z>
- Helena, C., Pribadi, R., & Soenardjo, N. 2025. Struktur Komunitas Gastropoda pada Ekosistem Mangrove Desa Kabongan Lor, Kabupaten Rembang Jawa Tengah. *Journal of Marine Research*, 14(3), 548–557. <https://doi.org/10.14710/jmr.v14i3.49540>
- Hidayah, F. N., Subagiyo, & Santoso, A. 2023. Nilai Simpanan dan Harga Karbon Ekosistem Mangrove Desa Pasar Banggi, Rembang, Jawa Tengah. *Journal of Marine Research*, 12(2), 187–195. <https://doi.org/10.14710/jmr.v12i2.34616>
- Huang, S., Tang, L., Hupy, J. P., Wang, Y., & Shao, G. 2021. A commentary review on the use of normalized difference vegetation index (NDVI) in the era of popular remote sensing. *Journal of Forestry Research*, 32(1), 1–6. <https://doi.org/10.1007/s11676-020-01155-1>
- Huda, A. C., Pratikto, I., & Pribadi, R. 2019. Karakteristik Lahan terhadap Kerentanan Pesisir Pantai Kabupaten Rembang, Jawa Tengah. *Journal of Marine Research*, 8(3), 253–261.
- Husain, P., Ihsan, M. S., Kuswara, R. D., Ihwan, K., Risfianty, D. K., Sanuriza, I. Il, Alyaminy, I. H. A. Z., & Atika, B. N. D. 2025. Karbon Biru pada Ekosistem Mangrove : Dinamika, Kapasitas Penyimpanan, dan Implikasinya terhadap

- Mitigasi Perubahan Iklim. *Biocaster : Jurnal Kajian Biologi*, 5(4), 1112–1127. <https://doi.org/10.36312/biocaster.v5i4.877>
- Hutapea, F. D. R. B., Afidah, S. N., Syafitri, L. M., Mukti, V. K., Fariz, T. R., & Nugraha, F. A. 2023. Rehabilitasi Mangrove di Pantai Tirang, Kota Semarang. *Jurnal Dharma Indonesia*, 01(01), 1–6.
- Ilman, M., Dargusch, P., & Dart, P. 2016. A historical analysis of the drivers of loss and degradation of Indonesia's mangroves. *Land use policy*, 54, 448–459.
- Irsadi, A., Jabbar, A., Dewi, N. K., Somantri, D., Khair, A. S. E., Sidiq, W. A. B. N., Mutiatari, D. P., & Martuti, N. K. T. 2025. Coastal Erosion Reduces Resilience and Disrupts Compositional Dynamics of The Mangrove Ecosystem. *Journal of Biology & Biology Education*, 17(1), 128–142.
- Jachowski, N. R. A., Quak, M. S. Y., Friess, D. A., Duangnamon, D., Webb, E. L., & Ziegler, A. D. 2013. Mangrove biomass estimation in Southwest Thailand using machine learning. *Applied Geography*, 45, 311–321. <https://doi.org/10.1016/j.apgeog.2013.09.024>
- Joandani, G. K., Pribadi, R., & Suryono, C. A. 2019. Kajian Potensi Pengembangan Ekowisata Sebagai Upaya Konservasi Mangrove Di Desa Pasar Banggi, Kabupaten Rembang. *Journal of Marine Research*, 8(1), 117–126.
- Ju, C., Fu, D., Lyne, V., Xiao, H., Su, F., & Yu, H. 2025. Global Declines in Mangrove Area and Carbon-Stock From 1985 to 2020. *Geophysical Research Letters*, 52(8). <https://doi.org/10.1029/2025GL115303>
- Kusumaningtyas, M. A., Hutahaean, A. A., Fischer, H. W., Pérez-Mayo, M., Ransby, D., & 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>
- Kyriakos, C., & Vavalis, M. 2023. Business Intelligence through Machine Learning from Satellite Remote Sensing Data. *Future Internet*, 15(11), 355. <https://doi.org/10.3390/fi15110355>
- Laraswati, Y., Soenardjo, N., & Setyati, W. A. 2020. Komposisi dan Kelimpahan Gastropoda Pada Ekosistem Mangrove Di Desa Tireman, Kabupaten Rembang, Jawa Tengah. *Journal of Marine Research*, 9(1), 41–48. <https://doi.org/10.14710/jmr.v9i1.26104>
- Liu, S., Yang, S., Liu, H., Hu, Q., Liu, X., Wang, J., Wang, J., Xin, W., & Chen, Q. 2023. Physiological and transcriptomic analysis of the mangrove species *Kandelia obovata* in response to flooding stress. *Marine Pollution Bulletin*, 196, 115598. <https://doi.org/10.1016/j.marpolbul.2023.115598>
- López-Serrano, P. M., Domínguez, J. L. C., Corral-Rivas, J. J., Jiménez, E., López-Sánchez, C. A., & Vega-Nieva, D. J. 2020. Modeling of aboveground biomass with landsat 8 oli and machine learning in temperate forests. *Forests*, 11(1). <https://doi.org/10.3390/f11010011>
- Mardliyah, R., Ario, R., & Pribadi, R. 2019. Estimasi Simpanan Karbon Pada Ekosistem Mangrove Di Desa Pasarbanggi dan Tireman, Kecamatan Rembang, Kabupaten Rembang. *Journal of Marine Research*, 8(1), 62–68.
- Masruroh, L., & Insafitri, I. 2020. Pengaruh Jenis Substrat Terhadap Kerapatan Vegetasi *Avicennia marina* di Kabupaten Gresik. *Juvenil:Jurnal Ilmiah*

- Kelautan Dan Perikanan*, 1(2), 151–159.
<https://doi.org/10.21107/juvenil.v1i2.7569>
- Mastu, L. O. K., Nababan, B., & Panjaitan, J. P. 2018. Pemetaan Habitat Bentik Berbasis Objek Menggunakan Citra Sentinel-2 di Perairan Wakatobi. *Jurnal Ilmu Dan Teknologi Kelautan Tropis*, 10(2), 381–396.
<https://doi.org/10.29244/jitkt.v10i2.21039>
- Maurya, K., Mahajan, S., & Chaube, N. 2021. Remote sensing techniques: mapping and monitoring of mangrove ecosystem—a review. *Complex and Intelligent Systems*, 7(6), 2797–2818. <https://doi.org/10.1007/s40747-021-00457-z>
- Melani, K. D., Kumaladewi, L., Kautsar, M. F., Maharani, N. S., & Saharani, N. P. 2025. Analisis Adaptasi dan Persebaran Spesies Mangrove di Jawa Tengah. *ENVIRO: Journal of Tropical Environmental Research*, 27(1), 39. <https://doi.org/10.20961/enviro.v27i1.101222>
- Montgomery, D. C., Peck, E. A., & Vining, G. G. 2012. *Introduction to Linear Regression Analysis*. Wiley.
- Mukhsin, R., Mappigau, P., & Tenriawaru, A. N. 2017. Pengaruh Orientasi Kewirausahaan Terhadap Daya Tahan Hidup Usaha Mikro Kecil dan Menengah Kelompok Pengolahan Hasil Perikanan di Kota Makassar. *Jurnal Analisis.*, 6(2): 188-193.
- Mustofa, V. M., Soenardjo, N., & Pratikto, I. 2023. Analisis tekstur sedimen terhadap kelimpahan gastropoda di ekosistem mangrove Desa Pasar Banggi, Rembang. *Journal of Marine Research*, 12(1), 137-143.
- Nafisah, N., Purwanti, F., & Rahman, A. 2024. Pengembangan Ekowisata Berbasis Ekosistem Mangrove Di Kawasan Pasarbanggi, Kabupaten Rembang. *Jurnal Pasir Laut*, 8(1), 55–62.
- Nguyen, H.-H., & Nguyen, T. T. H. 2021. Above-ground biomass estimation models of mangrove forests based on remote sensing and field-surveyed data: Implications for C-PFES implementation in Quang Ninh Province, Vietnam. *Regional Studies in Marine Science*, 48, 101985. <https://doi.org/10.1016/j.rsma.2021.101985>
- Nofrizal, A. Y. 2019. Pemanfaatan Teknologi Informasi Geospasial untuk Prediksi Perkembangan Lahan Terbangun Serta Dampaknya Terhadap Lahan Pertanian Pangan Berkelanjutan (LP2B). FIT ISI 2019 dan ASEANFLAG 72nd Council Meeting.
- Noor, Y. R., Khazali, M., & Suryadiputra, I. N. N. 2006. *Panduan Pengenalan MANGROVE di Indonesia*. PHKA/WI-IP.
- Nurunnisha, G. A., A. Rohmattullah, Maulana, M. R., & Sinaga, O. 2020. Analysis of Consumer Acceptance Factors Against Fintech At Bandung SMEs. *PalArch's Journal of Archaeology of Egypt/Egyptology.*, 17(5): 841 855.
- Pambudi, D. S. 2023. Pengaruh Kerapatan Mangrove terhadap Kelimpahan Kepiting Mangrove (*Scylla spp.*) di Kawasan Ekosistem Mangrove Rembang. *Jurnal Kelautan Nasional*, 18(3), 219–232.
- Parmadi, E. H., Dewiyanti, I., & Karina, S. 2016. Indeks Nilai Penting Vegetasi Mangrove di Kawasan Kuala Idi, Kabupaten Aceh Timur. *Jurnal Ilmiah Mahasiswa Kelautan Dan Perikanan Unsyiah*, 1(1), 82–95.

- Prakoso, T. B., Afiati, N., & Suprpto, D. 2017. Biomassa Kandungan Karbon dan Serapan CO₂ pada Tegakan Mangrove di Kawasan Konservasi Mangrove Bedono, Demak. *Journal of MAQUARES*, 6(2), 156–163.
- Pujasari, G., Fajarwati, D., Qoyum, C. A., Hanafi, Y., Firmansyah, H., & Prihatono, R. 2025. Analisis Kebijakan Rehabilitasi Lahan Melalui Pembangunan Hutan Rakyat Pada Cabang Dinas Kehutanan Wilayah I Bogor. *Jurnal ForestIndo*, 2(1).
- Purnomo, M. B., Hizbaron, D. R., & Damen, M. 2015. Community-Based Analysis on Mangrove Forest Changes in Rembang District, Central Java Province, Indonesia. *Jurnal Kependudukan Indonesia*, 10(1), 1–10. <http://earthexplorer.usgs.gov>
- Putri, D. R., Sukmono, A., & Sudarsono, B. 2018. Analisis Kombinasi Citra Sentinel-1A dan Citra Sentinel-2A untuk Klasifikasi Tutupan Lahan (Studi Kasus: Kabupaten Demak, Jawa Tengah). *Jurnal Geodesi Undip*, 7(2), 85–96.
- Putri, K. A., Ulumuddin, Y. I., Maslukah, L., & Wulandari, S. Y. 2024. Stok Karbon Organik Sedimen Mangrove di Laguna Segara Anakan. *Buletin Oseanografi Marina*, 13(2), 279–290. <https://doi.org/10.14710/buloma.v13i2.62719>
- Qiao, W., Guan, W., & Huang, X. 2021. Assessing the potential impact of land use on carbon storage driven by economic growth: A case study in yangtze river delta urban agglomeration. *International Journal of Environmental Research and Public Health*, 18(22), 11924. <https://doi.org/10.3390/ijerph182211924>
- Rafdinal, R., Linda, R., & Raynaldo, A. 2022. Community structure and potential carbon stock of mangrove forest in Malek Village, Paloh District, Sambas Regency, Indonesia. *Aquatic Science & Management*, 10(1), 16–22. <https://doi.org/10.35800/jasm.v10i1.40062>
- Rahmani, A. V., Idrus, A. Al, & Mertha, I. G. 2023. The Structure of Mangrove Community in Regional Marine Conservation Area Gili Sulat West Nusa Tenggara. *Jurnal Biologi Tropis*, 23(1), 42–51. <https://doi.org/10.29303/jbt.v23i1.4597>
- Rahmat, N., Pratikto, I., & Suryono, C. A. 2022. Simpanan Karbon Pada Tegakan Vegetasi Mangrove di Desa Pasar Banggi Rembang. *Journal of Marine Research*, 11(3), 506–512. <https://doi.org/10.14710/jmr.v11i3.35172>
- Rahmawati, H., Pribadi, R., & Santoso, A. 2024. Strategy Rehabilitation and Management of Mangrove Based on SWOT Analysis in Betahwalang Village Bonang, Bonang Sub-District, Demak Regency, Central Java. *Journal of Marine Research*, 13(2), 239–247. <https://doi.org/10.14710/jmr.v13i2.26959>
- Ramadhani, Y. P., Pratikto, I., & Suryono, C. A. 2021. Perubahan Garis Pantai Menggunakan Citra Satelit Landsat di Pesisir Kecamatan Sayung, Kabupaten Demak. *Journal of Marine Research*, 10(2), 299–305. <https://doi.org/10.14710/jmr.v10i2.30468>
- Rangkuti, F. 2008. Analisa SWOT: Teknik Membedah Kasus Bisnis. PT Gramedia Pustaka Utama Jakarta. COREMAP CTI Pusat Penelitian Oseanografi, LIPI, Jakarta, 54 hlm.
- Rifandi, R. A. 2021. Pendugaan Stok Karbon Dan Serapan Karbon Pada Tegakan Mangrove Di Kawasan Ekowisata Mangrove Desa Mojo Kabupaten

- Pemalang. *Jurnal Litbang Provinsi Jawa Tengah*, 19(1), 93–103. <https://doi.org/10.36762/jurnaljateng.v19i1.871>
- Riniatsih, I., & Munasik, M. 2017. Keanekaragaman Megabentos yang Berasosiasi di Ekosistem Padang Lamun Perairan Wailiti, Maumere Kabupaten Sikka, Nusa Tenggara Timur. *Jurnal Kelautan Tropis*, 20(1), 56-59.
- Riswanto, E. 2009. Evaluasi Akurasi Klasifikasi Penutupan Lahan Menggunakan Citra Alos Palsar Resolusi Rendah Studi Kasus Di Pulau Kalimantan. Tidak dipublikasi. Bogor: Institut Pertanian Bogor.
- Romadhony, M. Y., Hartoko, A., & Muskananfolo, M. R. 2023. Kesuburan Perairan Berdasarkan Kandungan Nutrien Pada Ekosistem Mangrove di Kawasan Hutan Mangrove Pasar Banggi, Rembang -Jawa Tengah. *Jurnal Pasir Laut*, 7(1), 32–41.
- Rouse, J. W., Haas, R. H., Schell, J. A., Deering, D. W., & Harlan, J. C. 1974. *Monitoring The Vernal Advancement And Retroradation (Greenwave Effect) Of Natural Vegetation*.
- Rudianto, R., Bengen, D. G., & Kurniawan, F. 2020. 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>
- Salim, H. L., Adi, N. S., Kepel, T. L., & Ati, R. N. A. 2020. Estimating mangrove biomass using drone in Karimunjawa Islands. *IOP Conference Series: Earth and Environmental Science*, 561(1). <https://doi.org/10.1088/1755-1315/561/1/012054>
- Saputro, D. A., Purwanti, F., & Rudiyaniti, S. 2019. Kondisi Wisata Mangrove Di Desa Pasarbanggi, Kabupaten Rembang. *Journal of Maquares*, 8(3), 221–225.
- Sasmito, S. D., Taillardat, P., Clendenning, J. N., Cameron, C., Friess, D. A., Murdiyarso, D., & Hutley, L. B. 2019. Effect of land-use and land-cover change on mangrove blue carbon: A systematic review. *Global Change Biology*, 25(12), 4291–4302. <https://doi.org/10.1111/gcb.14774>
- Sholeh, S., Intan, D., Evianovita, N., Mayasari, A. Y., & Sudewo, A. A. 2024. The Role of The Community in The Development of Mangrove Forest Ecotourism in Pasar Banggi, Rembang Regency. *Indonesian Journal of Environment and Disaster*, 03(1), 121–132. [https://doi.org/10.20961/ijed.v3i1.1207-\(Vol\)](https://doi.org/10.20961/ijed.v3i1.1207-(Vol))
- Sidik, F., Kusuma, D. W., Kadarisman, H. P., & Suhardjono. 2019. *Panduan Mangrove: Survei Ekologi dan Pemetaan Denny wijaya Kusuma Institute for Management Marine and Fisheries Information*. Balai Riset dan Observasi Laut. <https://www.researchgate.net/publication/339550532>
- Simamora, F. B., Sasmito, B., & Hani'ah. 2015. Kajian Metode Segmentasi untuk Identifikasi Tutupan Lahan dan Luas Bidang Tanah Menggunakan Citra pada Google Earth (Studi Kasus : Kecamatan Tembalang, Semarang). *Jurnal Geodesi Undip*, 4(4), 43–51.
- Sirait, M., Rahmatia, F., & Pattullo, P. (2017). Komparasi Indeks Keanekaragaman dan Indeks Dominansi Fitoplankton di Sungai Ciliwung Jakarta. *Jurnal Harpodon Borneo*, 10(2).

- Soebandriyo. 2015. Analysis Of Marine Fisheries Production, Marine Farming, Fishpond, Capture Fisheries In Rembang District. *Jurnal Litbang Provinsi Jawa Tengah*, 13(1), 25–44.
- Soeprbowati, T. R., Sularto, R. B., Hadiyanto, H., Puryono, S., Rahim, A., Jumari, J., & Gell, P. 2024. The carbon stock potential of the restored mangrove ecosystem of Pasarbanggi, Rembang, Central Java. *Marine Environmental Research*, 193. <https://doi.org/10.1016/j.marenvres.2023.106257>
- Suardana, A. A. M. A. P., Anggraini, N., Nandika, M. R., Aziz, K., As-Syakur, A. R., Ulfa, A., Wijaya, A. D., Prasetio, W., Winarso, G., & Dimiyati, R. D. 2023. Estimation and Mapping Above-Ground Mangrove Carbon Stock Using Sentinel-2 Data Derived Vegetation Indices in Benoa Bay of Bali Province, Indonesia. *Forest and Society*, 7(1), 116–134. <https://doi.org/10.24259/fs.v7i1.22062>
- Suarto, E. 2017. Pengembangan Objek Wisata Berbasis Analisis SWOT. *Jurnal Spasia: Penelitian, Terapan Ilmu Geografi, Dan Pendidikan Geografi*, 3(1).
- Susantoro, T. M., Wikantika, K., Yayusman, L. F., Tan, A., & Ghozali, M. F. 2019. Monitoring of Mangrove Growth and Coastal Changes on The North Coast of Brebes, Central Java, Using Landsat Data. *International Journal of Remote Sensing and Earth Sciences*, 16(2), 197–214.
- Suwargana, N. 2013. Resolusi Spasial, Temporal, dan Spektral pada Citra Satelit Landsat, SPOT, dan IKONOS. *Jurnal Ilmiah WIDYA*, 1(2), 167–174.
- Syafitri, A., Siregar, E. S., & Elimasni. 2024. Keragaman Jenis Tumbuhan Mangrove Famili Lythraceae Di Belawan Pulau Sicanang, Sumatera Utara. *Berita Biologi*, 23(1), 115–128. <https://doi.org/10.55981/beritabiologi.2024.3901>
- Ulqodry, T. Z., Suganda, A., Agussalim, A., Aryawati, R., & Absori, A. 2020. Estimasi Serapan Karbon Mangrove melalui Proses Fotosintesis di Taman Nasional Berbak-Sembilang. *Jurnal Kelautan Nasional*, 15(2), 77–84. <http://solardat.uoregon.edu/>
- Utami, W., Sugiyanto, C., & Rahardjo, N. 2024. Mangrove area degradation and management strategies in Indonesia: A review. *Journal of Degraded and Mining Lands Management*, 11(3), 6037–6047. <https://doi.org/10.15243/jdmlm.2024.113.6037>
- Wang, L., Yang, L., Wang, W., Chen, B., & Sun, X. 2021. Monitoring mining activities using sentinel-1A InSAR coherence in open-pit coal mines. *Remote Sensing*, 13(21), 4485. <https://doi.org/10.3390/rs13214485>
- Wang, M., Zhang, T., Xie, Y., Zhang, Z., & Wu, X. 2025. Mapping accumulated carbon storage of global mangroves from 2000 to 2020 at a 1 km resolution. *Scientific Data*, 12, 552. <https://doi.org/10.1038/s41597-025-04881-5>
- Wicaksono, P., Danoedoro, P., Hartono, & Nehren, U. 2016. Mangrove biomass carbon stock mapping of the Karimunjawa Islands using multispectral remote sensing. *International Journal of Remote Sensing*, 37(1), 26–52. <https://doi.org/10.1080/01431161.2015.1117679>
- Wulandari, C., Marwadani, L. M., Salsabila, G. N., Santoso, A. R., & Azis, N. 2024. Mangrove untuk Ekosistem Sehat dan Ekonomi Tangguh: Solusi Berkelanjutan di Tengah Perubahan Iklim (KKN-PPM UGM 2024 JT-013

- Wedung, Demak). *Jurnal Pengabdian, Riset, Kreativitas, Inovasi, Dan Teknologi Tepat Guna*, 2(2), 381–393. <https://doi.org/10.22146/parikesit.v2i2.17427>
- Yanuar, F., Samadi, & Muzani. 2023. Penyerapan Blue Carbon di Ekosistem Mangrove Kepulauan Seribu, DKI Jakarta Berbasis Environment Equity. *JIIP (Jurnal Ilmiah Ilmu Pendidikan)*, 6(12), 10430–10437. <http://Jiip.stkipyapisdmpu.ac.id>
- Yaqin, N., Rizkiyah, M., Putra, E. A., Suryanti, S., & Febrianto, S. 2022. Estimasi Serapan Karbon pada Kawasan Mangrove Tapak di Desa Tugurejo Semarang. *Buletin Oseanografi Marina*, 11(1), 19–29. <https://doi.org/10.14710/buloma.v11i1.38256>
- Yoni, N. N. N., & Heriyanti, A. P. 2025. Valuasi Ekonomi Manfaat Ekosistem Mangrove di Desa Tireman, Kabupaten Rembang, Jawa Tengah. *Jurnal Ilmu Lingkungan*, 23(3), 658–670. <https://doi.org/10.14710/jil.23.3.658-670>
- Yuhandri. 2019. Perbandingan Metode Cropping pada Sebuah Citra untuk Pengambilan Motif Tertentu pada Kain Songket Sumatera Barat. *Jurnal Komputer Teknologi Informasi*, 6(1), 96–105. <http://lppm.upiyptk.ac.id/ojsupi/index.php/KOMTEKINFO>
- Yumnaristya, S. H., Indra, T. L., Supriatna, Pin, T. G., & Enrico. 2023. Spatial and temporal study of estimating carbon stocks distribution of mangrove forest in coastal area of Teluknaga, Tangerang. *Environmental and Materials*, 1(2), 49–64. <https://doi.org/10.61511/eam.v1i2>
- Yusra, & Sulistiyowati, H. 2020. Estimasi Stok Karbon Ekosistem Mangrove Pasir Putih Pulau Bawean Desa Sukaoneng. *Bioma: Jurnal Biologi Dan Pembelajaran Biologi*, 5(2), 112–120. <https://doi.org/10.32528/bioma.v5i2.4010>



SEKOLAH PASCASARJANA