

## DAFTAR PUSTAKA

- Abino, A. C., Castillo, J. A. A., & Lee, Y. J. (2014). Assessment of species diversity , biomass and carbon sequestration potential of a natural mangrove stand in Samar , the Philippines. *Forest Science and Technology*, 10(March 2014), 1–8. <https://doi.org/10.1080/21580103.2013.814593>
- Adame, M., Kauffman, J., Medina, I., Gamboa, J., Torres, O., Caamal, J., ... Herrera-Silveira, J. (2013). Carbon Stocks of Tropical Coastal Wetlands within the Karstic Landscape of the Mexican Caribbean. *PLoS ONE*, 8(2), 1–13. <https://doi.org/10.1371/journal.pone.0056569>
- Alan, J., Castillo, A., Apan, A. A., Narayan, T., & Iii, S. G. S. (2017). Geoderma 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>
- Alemayehu, F., Richard, O., James, K. M., & Wasonga, O. (2014). Assessment of mangrove covers change and biomass in Mida creek, Kenya. *Open Journal of Forestry*, 4(July), 398–413.
- Alongi, D. M. (2011). Carbon payments for mangrove conservation: ecosystem constraints and uncertainties of sequestration potential. *Environmental Science & Policy*, 14(4), 462–470. <https://doi.org/10.1016/j.envsci.2011.02.004>
- Auliyani, D., Hendrarto, B., & Kismartini. (2013). Pengaruh Rehabilitasi Mangrove Terhadap Kondisi Sosial Ekonomi Masyarakat Pesisir Kabupaten Rembang. *Optimasi Pengelolaan Sumberdaya Alam Dan Lingkungan Dalam Mewujudkan Pembangunan Berkelanjutan*, 3, 317–321. Retrieved from <http://eprints.undip.ac.id/40684/1/048->
- Alongi, D. M., & Mukhopadhyay, S. K. (2015). Contribution of mangroves to coastal carbon cycling in low latitude seas. *Agricultural and Forest Meteorology*, 213, 266–272. <https://doi.org/10.1016/j.agrformet.2014.10.005>
- Anwar, C. (2007). Pertumbuhan Anakan Mangrove Pada Berbagai Jarak Tanam Dan Tingkat Penggenangan Air Laut Di Pemalang, Jawa Tengah. *Jurnal Penelitian Hutan Dan Konservasi Alam*, 4(4), 353–364. <https://doi.org/10.20886/jphka.2007.4.4.353-364>
- Beaumont, N. J., Jones, L., Garbutt, A., Hansom, J. D., & Toberman, M. (2014). The value of carbon sequestration and storage in coastal habitats. *Estuarine, Coastal and Shelf Science*, 137, 32–40. <https://doi.org/10.1016/j.ecss.2013.11.022>

- Beymer-Farris, B. a., & Bassett, T. J. (2012). The REDD menace: Resurgent protectionism in Tanzania's mangrove forests. *Global Environmental Change*, 22(2), 332–341. <https://doi.org/10.1016/j.gloenvcha.2011.11.006>
- Biswas, S. R., Mallik, A. U., Choudhury, J. K., & Nishat, A. (2009). A unified framework for the restoration of Southeast Asian mangroves-bridging ecology, society and economics. *Wetlands Ecology and Management*, 17(4), 365–383. <https://doi.org/10.1007/s11273-008-9113-7>
- Bournazel, J., Kumara, M. P., Jayatissa, L. P., Viergever, K., Morel, V., & Huxham, M. (2015). The impacts of shrimp farming on land-use and carbon storage around Puttalam lagoon, Sri Lanka. *Ocean & Coastal Management*, 113, 18–28. <https://doi.org/10.1016/j.ocecoaman.2015.05.009>
- Campbell, A. Miles, L. Lysenko, I. Hughes, A. Gibbs, H. (2008). *Carbon Storage in Protected Areas: Technical Report*.
- CCROM. (2010). *Vulnerability and adaptation assessment to climate change in Semarang City: Final report*. Semarang. Retrieved from [http://www.acccrn.org/sites/default/files/documents/ACCCRN\\_smrg\\_ENG\\_26APRIL2010\\_0.pdf](http://www.acccrn.org/sites/default/files/documents/ACCCRN_smrg_ENG_26APRIL2010_0.pdf)
- Chanan, M. 2012. Pendugaan cadangan karbon (C) tersimpan di atas permukaan tanah pada vegetasi hutan tanaman jati (*Tectona grandis* Linn.F)(di RPH Sengguruh BKPH Sengguruh KPH Malang Perum Perhutani II Jawa Timur). *J GAMMA*, 7(2), 61–73.
- Chen, R., & Twilley, R. R. (2006). Patterns of Mangrove Forest Structure and Soil Nutrient Dynamics along the Shark River Estuary, Florida. *Estuaries*, 22(4), 955. <https://doi.org/10.2307/1353075>
- Chen, L., Zeng, X., Tam, N. F. Y., Lu, W., Luo, Z., Du, X., & Wang, J. (2012). Comparing carbon sequestration and stand structure of monoculture and mixed mangrove plantations of *Sonneratia caseolaris* and *S. apetala* in Southern China. *Forest Ecology and Management*, 284, 222–229. <https://doi.org/10.1016/j.foreco.2012.06.058>
- Dahuri R. 2001. *Pengelolaan sumberdaya wilayah pesisir dan lautan seara terpadu*. Jakarta: Pradnya Paramita
- Dharmawan, I., & Siregar, H. A. (2008). Karbon Tanah dan Pendugaan Karbon Tegakan *Avicennia marina* (Forsk.) Vierh. di Ciasem, Purwakarta. *Penelitian Hutan Dan Konservasi Alam*, 4(4), 317–328.
- Diarto, D. (2012). Partisipasi Masyarakat Dalam Pengelolaan Lingkungan Kawasan Hutan Mangrove Tugurejo Di Kota Semarang. *Jurnal Ilmu Lingkungan*, 10(1), 1–7.
- Donato, D. C., Kauffman, J. B., Murdiyarso, D., Kurnianto, S., Stidham, M., &

- Kanninen, M. (2011). Mangroves among the most carbon-rich forests in the tropics. *Nature Geoscience*, 4(5), 293–297. <https://doi.org/10.1038/ngeo1123>
- Duarte, C. M., Middelburg, J. J., & Caraco, N. (2005). Major role of marine vegetation on the oceanic carbon cycle. *Biogeosciences*, 2(1), 1–8. <https://doi.org/10.5194/bg-2-1-2005>
- Eong, O. J. (1993). Mangroves-A Carbon Source and Sink. *Chemosphere*, 27(6), 1097–1107.
- Ermiliansa, D., Purnaweni, H., Studi, P., Lingkungan, I., Diponegoro, U., Hukum, F., & Diponegoro, U. (2014). Daerah Konservasi Berbasis Eco Edu Wisata Mangrove Di Dusun Tapak Tugurejo Kota Semarang. *Jurnal Ekosains*, VI(1).
- Hairiah, K. Dewi, S. Agus, F. Velarde, S. Ekadinata, A. Rahayu, S. Noordwijk, M. (2011). *Measuring Carbon Stocks: Across Land Use Systems*. Bogor, Indonesia: World Agroforestry Center (ICRAF), SEA Regional Office.
- Halidah. (2010). Substrat Di Kawasan Rehabilitasi Mangrove Sinjai Timur Sulawesi Selatan. *Jurnal Penelitian Hutan Dan Konservasi Alam*, 7(4), 399–412.
- Hamdan, O., Khairunnisa, M. R., Ammar, A. A., Hasmadi, I. M., & Aziz, H. K. (2013). Mangrove Carbon Stock Assessment by Optical Satellite Imagery. *Journal of Tropical Forest Science*, 25(4), 554–565.
- Hartati, R., Pribadi, R., Astuti, R. W., Yesiana, R., & H, I. Y. (2016). Kajian Pengamanan Dan Perlindungan Pantai Di Wilayah Pesisir Kecamatan Kajian Pengamanan Dan Perlindungan Pantai Di Wilayah Pesisir Kecamatan Tugu Dan Genuk , Kota Semarang. *Jurnal Kelautan Tropis*, 19(2), 95–100. <https://doi.org/10.14710/jkt.v19i2.823>
- Hidayat, J. W., Anggoro, S., & Hendrarto, B. (2012). Dinamika Populasi Wideng ( *Sesarma spp* ) dan Tangkapan ( Populasi ) *Scylla* di Kawasan Mangrove Tapak , Tugurejo Semarang : Suatu Kajian Pemberdayaan Predator untuk Mengendalikan Wideng Hama Bibit Mangrove Berbasis Manajemen Ekosistem Abstrak, 14(2).
- Hien, H. T., Marchand, C., Aimé, J., Hoai, D., Nguyen, P., Xuan, N., ... Cuc, K. (2018). Forest Ecology and Management Belowground carbon sequestration in a mature planted mangroves ( Northern Viet Nam ). *Forest Ecology and Management*, 407, 191–199. <https://doi.org/10.1016/j.foreco.2017.06.057>
- Hieu, P. V., Dung, L. V., Tue, N. T. & Omori, K. (2017). Will restored mangrove forests enhance sediment organic carbon and ecosystem carbon storage. *Regional Studies in Marine Science*. <http://dx.doi.org/10.1016/j.rsma.2017.05.003>

- Hilmi, E., Vikaliana, R., & Kusmana, C. (2017). The carbon conservation of mangrove ecosystem applied REDD program. *Regional Studies in Marine Science*, 16, 152–161. <https://doi.org/10.1016/j.rsma.2017.08.005>
- ISSET (2010), Kajian Kerentanan dan Adaptasi Terhadap Perubahan Iklim di Kota Semarang, Semarang.
- Jerath, M., Bhat, M., Rivera-monroy, V. H., Castañeda-moya, E., Simard, M., & Twilley, R. R. (2016). Environmental Science & Policy The role of economic , policy , and ecological factors in estimating the value of carbon stocks in Everglades mangrove forests , South Florida , USA. *Environmental Science and Policy*, 66, 160–169. <https://doi.org/10.1016/j.envsci.2016.09.005>
- Jones, T., Ratsimba, H., Ravaoarinosihoarana, L., Glass, L., Benson, L., Teoh, M., ... Roy, P.-F. (2015). The Dynamics, Ecological Variability and Estimated Carbon Stocks of Mangroves in Mahajamba Bay, Madagascar. *Journal of Marine Science and Engineering*, 3(3), 793–820. <https://doi.org/10.3390/jmse3030793>
- Kathiresan, K., Anburaj, R., Gomathi, V., & Saravanakumar, K. (2013). Carbon sequestration potential of *Rhizophora mucronata* and *Avicennia marina* as influenced by age, season, growth and sediment characteristics in southeast coast of India. *Journal of Coastal Conservation*, 17(3), 397–408. <https://doi.org/10.1007/s11852-013-0236-5>
- Kauffman, J. B., Heider, C., Norfolk, J., & Payton, F. (2014). Carbon stocks of intact mangroves and carbon emissions arising from their conversion in the Dominican Republic. *Ecological Applications*, 24(3), 518–527. <https://doi.org/10.1890/13-0640.1>
- Kauffman, J., & Donato, D. (2012). *Protocols for the measurement, monitoring and reporting of structure, biomass and carbon stocks in mangrove forests* (No. 86). CIFOR. Bogor, Indonesia: CIFOR. <https://doi.org/10.17528/cifor/003749>
- Kepel, T., Suryono, D., Nurafiati, R., Salim, H., & Hutahaean, A. (2017). Nilai Penting dan Estimasi Nilai Ekonomi Simpanan Karbon Vegetasi Mangrove di Kema, Sulawesi Utara. *Jurnal Kelautan Nasional*, 12(1), 19–26.
- Kepel, T. L., Nur, R., Ati, A., Rahayu, Y. P., & Adi, N. S. (2018). The Impact Of Mangroves Conversion On Sediment Properties And Capacity To Store Carbon. *Jurnal Kelautan Nasional*, 13(3), 145–153.
- Kodikara, K. A. S., Jayatissa, L. P., Huxham, M., Dahdouh-Guebas, F., & Koedam, N. (2017). The effects of salinity on growth and survival of mangrove seedlings changes with age. *Acta Botanica Brasilica*, 32(1), 37–46. <https://doi.org/10.1590/0102-33062017abb0100>

- Komiyama, A., Ong, J., & Pongparn, S. (2008). Allometry , biomass , and productivity of mangrove forests : A review. *Aquatic Botany*, 89, 128–137. <https://doi.org/10.1016/j.aquabot.2007.12.006>
- Kristensen, E., Bouillon, S., Dittmar, T., & Marchand, C. (2008). Organic carbon dynamics in mangrove ecosystems: A review. *Aquatic Botany*, 89(2), 201–219. <https://doi.org/10.1016/j.aquabot.2007.12.005>
- Lal, R. (2014). Soil conservation and ecosystem services. *International Soil and Water Conservation Research*, Vol. 2, No. 3, 2014, pp. 36-47
- Liu, H., Ren, H., Hui, D., Wang, W., Liao, B., & Cao, Q. (2014). Carbon stocks and potential carbon storage in the mangrove forests of China. *Journal of Environmental Management*, 133, 86–93. <https://doi.org/10.1016/j.jenvman.2013.11.037>
- Lugina, M., Ginoga, K., Wibowo, A., Bainnaura, A., & Partiani, T. (2011). *Prosedur Operasi Standar ( SOP ) untuk Pengukuran Stok Karbon di Kawasan Konservasi* (No. 14). Bogor, Indonesia.
- Lugo, A. E., & Snedaker, S. C. (1974). The Ecology of Mangroves. *Annual Review of Ecology and Systematics*, 5(1), 39–64. <https://doi.org/10.1146/annurev.es.05.110174.000351>.
- Magdalena, E., Anggoro, S., & Purwanti, F. (2015). Analisis Kesesuaian Lahan Bagi Konservasi Mangrove Di Desa Timbul Sloko Kecamatan Sayung, Demak. *Management of Aquatic Resources*, 4(3), 139–147.
- Martuti, N. (2012). Keanekaragaman Mangrove di Wilayah Tapak, Tugurejo, Semarang. *Jurnal MIPA*, 36(1), 123–130.
- Martuti, N., 2013. Keanekaragaman Mangrove di Wilayah Tapak, Tugurejo, Semarang. *Jurnal MIPA*, 36(1): 123-130. [1]
- Martuti, N. K. T., Susilowati, S. M. E., Sidiq, W. A. B. N., & Mutiatari, D. P. (2018). Peran Kelompok Masyarakat dalam Rehabilitasi Ekosistem Mangrove di Pesisir Kota Semarang. *Jurnal Wilayah Dan Lingkungan*, 6(2), 100. <https://doi.org/10.14710/jwl.6.2.100-114>
- Mulyanto. (2003). *Kajian Perpindahan Sedimen Dalam Pengelolaan Wilayah Pesisir Teluk Awur, Kabupaten Jepara*. Universitas Diponegoro.
- Munawar, S., Fahim, M., & Atif, S. (2015). International Biodeterioration & Biodegradation Reducing emissions from deforestation and forest degradation implementation in northern Pakistan. *International Biodeterioration & Biodegradation*, 102, 316–323. <https://doi.org/10.1016/j.ibiod.2015.02.027>
- Murdiyarsa, D., Donato, D., Kauffman, J. B., Kurnianto, S., Stidham, M., &

- Kanninen, M. (2009). *Carbon storage in mangrove and peatland ecosystems. A preliminary account from plots in Indonesia*. Bogor, Indonesia.
- Mutiatari, D. P., Pribadi, R., & Martuti, N. K. T. (2018). C Stock of Top Soil and It Spatial Distribution in Mangrove Community of Trimulyo, Semarang City. In *E3S Web of Conferences* (Vol. 73). <https://doi.org/10.1051/e3sconf/20187303006>
- Nguyen, T. H. H. & Mai, S. T. (2007). Effects of mangrove plantation on carbon and nitrogen stock accumulated in soil. *Tap Chi Sinh Hoc, Journal of Biology*. Vol. 29, No. 3. DOI: 10.15625/0866-7160/v29n3.5388.
- Patil, V., Singh, A., Naik, N., Seema, U., & Sawant, B. (2012). Carbon Sequestration in Mangroves Ecosystems. *Journal of Environmental Research and Development*, 7(1), 576–583.
- Pendleton, L., Donato, D. C., Murray, B. C., Crooks, S., Jenkins, W. A., Sifleet, S., ... Baldera, A. (2012). Estimating Global “Blue Carbon” Emissions from Conversion and Degradation of Vegetated Coastal Ecosystems. *PLoS ONE*, 7(9). <https://doi.org/10.1371/journal.pone.0043542>
- Poedjiharajoe, E. (2010). Klasifikasi Keseuaian Lahan Mangrove Untuk Silvofishery Di Kawasan Rehabilitast Mangrove Pantai Utara Kabupaten Brebes Dan Pemasang. In *Seminar Nasional Tahunan VII Hasil Penelitian Perikanan dan Kelautan*. Yogyakarta: Badan Riset Kelautan dan Perikanan.
- Primavera, J. H. (1997). Socio-economic impacts of shrimp culture. *Aquaculture Research*, 28, 815–827. <https://doi.org/10.1046/j.1365-2109.1997.00946.x>
- Rachmawati, D., Setyobudiandi, I., & Hilmi, E. (2014). Potensi Estimasi Karbon Tersimpan pada Vegetasi Mangrove di Wilayah Pesisir Muara Gembong Kabupaten Bekasi. *Omni-Akuatika*, 13(19), 85–91.
- Rahman, M. M., & Begum, S. (2011). Land Cover Change Analysis Around The Sundarbans Mangrove forest of bangladesh using remote sensing and gis application. *Journal Science Foundation*, 9(1&2), 95–107.
- Rahman, M. M., Kabir, M. E., Jahir Uddin Akon, A. S. M., & Ando, K. (2015). High carbon stocks in roadside plantations under participatory management in Bangladesh. *Global Ecology and Conservation*, 3, 412–423. <https://doi.org/10.1016/j.gecco.2015.01.011>
- Renta, P. P., Pribadi, R., Zainuri, M., & Fajar Utami, M. A. (2016). Struktur Komunitas Mangrove Di Desa Mojo Kabupaten Pemasang Jawa Tengah. *Jurnal Enggano*, 1(2), 1–10. <https://doi.org/10.31186/jenggano.1.2.1-10>
- Rositasari, R., & Rahayu, S. (1994). Sifat-sifat Estuari dan Pengelolaanya. *Oseana*, 19(3), 21–31.

- Saputro, I., Pribadi, R., & Pratikto, I. (2013). Kajian struktur dan komposisi vegetasi mangrove di kawasan pesisir Desa Pasar Banggi, Kabupaten Rembang. *Journal of Marine Research*, 2(4), 104–110.
- Saraswati, A. (2004). Konsep Pengelolaan Ekosistem Pesisir (Studi Kasus Ulujami, Kabupaten Pemalang, Jawa Tengah). *J. Tek. Ling. P3TL-BPPT*, 5(3), 205–211.
- Sardiyatmo, Supriharyono, dan A. H. (2013). Dampak Dinamika Garis Pantai Menggunakan Citra Satelit Multi Temporal Pantai Semarang Provinsi Jawa Tengah. *Jurnal Sainstek Perikanan*, 8 (2)(2), 33–37.
- Satriadi, A. (2012). Studi Batimetri dan Jenis Sedimen Dasar Laut di Perairan. *Buletin Oseanografi Marina*, 1, 53–62.
- Setiyowati, D. Supriharyono. Triarso, I. (2016). Valuasi Ekonomi Sumberdaya Mangrove di Kelurahan Mangunharjo, Kecamatan Tugu, Kota Semarang. *IJFST*, 12(1), 67–74.
- Setyawan, A. D. W. I., Winarno, K., & Purnama, P. C. (2003). Ekosistem Mangrove di Jawa : 1 . Kondisi Terkini Mangrove ecosystem in Java : 1 . recent status. *Biodiversitas*, 4(2), 133–145. <https://doi.org/10.13057/biodiv/d040211>
- Setyawan, A. D. W. I., Winarno, K., & Susilowati, A. R. I. (2005). Tumbuhan Mangrove di Pesisir Jawa Tengah : 2 . Komposisi dan Struktur Vegetasi. *Biodiversitas*, 6, 194–198. <https://doi.org/10.13057/biodiv/d060312>
- Siwar, C., Chinade, A. A., Mohamad, S., & Isahak, A. (2016). Economic Valuation Of Soil Carbon Sequestration Services In Malaysia ' S Forest Sector : A Review Of Possible Approaches, *11*(1), 14–28.
- Smith, J. (1996). Perspectives on an Invasion of Paradise: *Rhizophora stylosa* on Moorea, French Polynesia . *Australian Geographical Studies*, 34(1), 81–87.
- Spaninks, F. van Beukering, P. (1997). *Economic Valuation of Mangrove Ecosystems : Potential and Limitations* (No. 14). Amsterdam, Netherland.
- Stringer, C. E., Trettin, C. C., Zarnoch, S. J., & Tang, W. (2015). Carbon stocks of mangroves within the Zambezi River Delta, Mozambique. *Forest Ecology and Management*, 354, 139–148. <https://doi.org/10.1016/j.foreco.2015.06.027>
- Sudarsono, B. (2011). Inventarisasi Perubahan Wilayah Pantai dengan Metode Pengideraan Jauh (Studi Kasus Kota Semarang). *Teknik*, 32(2), 162–169.
- Sulaeman, Suparto, & Eviati. (2005). *Petunjuk Teknis: Analisis Kimia Tanah, Tanaman, Air, dan Pupuk*. Bogor, Indonesia.
- Sunyowati, D. 2009. Tata kelautan berdasarkan Integrated Coastal management

pada pembangunan kelautan berkelanjutan. *Jurnal Hukum Pro Justitia*. 27 (1): 35-52

- Tue, N. T., Dung, L. V., Nhuan, M. T., & Omori, K. (2014). Carbon storage of a tropical mangrove forest in Mui Ca Mau National Park, Vietnam. *Catena*, 121, 119–126. <https://doi.org/10.1016/j.catena.2014.05.008>
- van der Werf, G. R., Morton, D. C., DeFries, R. S., Olivier, J. G. J., Kasibhatla, P. S., Jackson, R. B., ... Randerson, J. T. (2009). CO2 emissions from forest loss. *Nature Geoscience*, 2(11), 737–738. <https://doi.org/10.1038/ngeo671>
- Wahyudi, A., Hendarto, B., Hartoko, A., Studi, P., Sumberdaya, M., Perikanan, J., ... Pesisir, K. (2014). Penilaian Kerentanan Habitat Mangrove Di Kelurahan Mangunharjo, Kecamatan Tugu, Kota Semarang Terhadap Variabel Oseanografi Berdasarkan Metode Cvi (Coastal Vulnerability Index). *Management of Aquatic*, 3(1), 89–98.
- Yasuhara, K., Komine, H., Murakami, S., Chen, G., Mitani, Y., & Duc, D. M. (2012). Effects of climate change on geo-disasters in coastal zones and their adaptation. *Geotextiles and Geomembranes*, 30, 24–34. <https://doi.org/10.1016/j.geotexmem.2011.01.005>