

DAFTAR PUSTAKA

- Amanda, F. M., Chairul, C., Solfiyeni, S., Mukhtar, E. 2024. Estimated Tree Carbon Reserves and Saplings in the Nagari Sumpur Kudus Social Forestry Area, Sijunjung Regency. *Jurnal Biologi Tropis*. Vol. 24(1) 659-668.
- Ashton, P. S. 2000. Dipterocarpaceae ecology: Tropical rainforests in Southeast Asia. *Journal of Tropical Ecology*, 16(1), 55–77.
- Baccini, A., *et al.* 2017. Tropical forests are a net carbon source based on aboveground measurements of gain and loss. *Science*, 358(6360), 230-234. <https://doi.org/10.1126/science.aam5962>
- Badan Standarisasi Nasional. 2011. *SNI 7724:2011 – Pengukuran Cadangan Karbon Tegakan Pohon*. Jakarta: Badan Standarisasi Nasional. <https://sisni.bsn.go.id/>
- Betani, Anderlef, *et al.* 2016. Valuasi Ekonomi Karbon Pada Tegakan Tingkat Tiang dan Pohon di Kawasan Hutan Dengan Tujuan Khusus (Khdtk) Hutan Diklat Bukit Suligi Kabupaten Rokan Hulu. *Jom Faperta UR Vol 3 No 2*.
- Butarbutar, T. 2009. Inovasi Manajemen Kehutanan untuk Solusi Perubahan Iklim di Indonesia. *Jurnal Analisis Kebijakan Kehutanan*. 6(2): 121- 129.
- Chase, M. W., *et al.* 1993. Ecology of the Sapotaceae family and its environmental needs. *Tropical Plant Ecology Journal*, 16(4), 72–83.
- Chatrou, L. W., Pirie, M. D., Erkens, R. H. J., Couvreur, T. L. P., Neubig, K. M., Abbott, J. R., Mols, J. B., Maas, J. W., Saunders, R. M. K., & Chase, M. W. 2012. A new subfamilial and tribal classification of the pantropical flowering plant family Annonaceae informed by molecular phylogenetics. *Botanical Journal of the Linnean Society*, 169(1), 5–40. <https://doi.org/10.1111/j.1095-8339.2012.01235.x>
- Chave, J., Réjou-Méchain, M., Búrquez, A., Chidumayo, E., Colgan, M. S., Delitti, W. B. C., ... & Vieilledent, G. 2014. Improved allometric models to estimate the aboveground biomass of tropical trees. *Global Change Biology*, 20(10), 3177-3190. DOI:10.1111/gcb.12629.
- Corner, E. J. H. 1989. *The natural history of the Phyllanthaceae*. In *Flora Malesiana* (Vol. 8).
- Couvreur, T. L. P., Chatrou, L. W., Sosef, M. S. M., & Richardson, J. E. 2011. Early evolutionary history of the flowering plant family Annonaceae: Steady diversification and boreotropical geodispersal. *Journal of Biogeography*, 38(4), 664–680. <https://doi.org/10.1111/j.1365-2699.2010.02434.x>
- Departemen Kehutanan R.I, 2007. Kesatuan Pengelolaan Hutan dan Perubahan Iklim Global. [www. Dephut.go.id](http://www.Dephut.go.id). Diakses pada tanggal 20 Agustus 2024.

- Dhakal, S., Minx, J. C., Toth, F., Abdel-Aziz, A., Figueroa Meza, M. J., Hubacek, K., ... & Wiedmann, T. 2022. Emissions Trends and Drivers (Chapter 2). Ecosystem Marketplace. "*Volume and Price by Category.*" Ecosystem Marketplace Hub. Diakses pada 20 Juni 2025. <https://hub.ecosystemmarketplace.com/categories>
- US EPA. 2023. *Greenhouse Gas Emissions from a Typical Passenger Vehicle*. URL: <https://www.epa.gov/greenvehicles/greenhouse-gas-emissions-typical-passenger-vehicle>
- Fachrul, M.F. 2007. *Metode Sampling Bioekologi*. Bumi Aksara. Jakarta
- Follett, R., Kimble, J., Pruessner, E., Samson-Liebig, S., & Waltman, S. 2009. Soil Organic Carbon Stocks with Depth and Land Use at Various U.S. Sites. Chapter 3 In "Soil Carbon Sequestration and the Greenhouse Effect." Soil Science, Publication (second edition), 29–46.
- Friedlingstein, P., et al. 2022. Global Carbon Budget 2022. *Earth System Science Data*, 14(11), 4811-4900. <https://doi.org/10.5194/essd-14-4811-2022>
- Griscom, B. W., et al. 2017. Natural climate solutions. *Proceedings of the National Academy of Sciences*, 114(44), 11645-11650. <https://doi.org/10.1073/pnas.1710465114>
- Hancock, M. H., & Legg, C. J. 2012. Diversity and stability of ericaceous shrub cover during two disturbance experiments: one on heathland and one in forest. *Plant Ecology & Diversity*, 5(3), 275–287. <https://doi.org/10.1080/17550874.2012.723764>
- Hayati, Hafizah., dan Umar, Iswandi. 2024. Analisis Deforestasi Kawasan Hutan Pada Kabupaten Sijunjung. *Jurnal Buana*. vol-8 no-2.
- Houghton, R. A., & Nassikas, A. A. 2017. *Negative emissions from stopping deforestation and forest degradation, globally*. *Global Change Biology*, 23(9), 3285-3294. <https://doi.org/10.1111/gcb.13750>
- IDX Carbon. 2025. *Harga Karbon Nasional Indonesia*. Jakarta: Indonesia Stock Exchange.
- International Union for Conservation of Nature. 2025. *Species name* (Version e.T31314A2804189). The IUCN Red List of Threatened Species. Diakses pada 20 Juni 2025, from <https://www.iucnredlist.org/species/31314/2804189>
- IPCC 2006. *Guidelines for National Greenhouse Gas Inventories*. Volume 2: Energy. Chapter 2. URL: <https://www.ipcc-nggip.iges.or.jp/public/2006gl/>
- IPCC. 2016. *Climate Change 2014: Mitigation of Climate Change*. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge University Press.

- IPCC. 2021. Sixth Assessment Report of the Intergovernmental Panel on Climate Change: The Physical Science Basis. Cambridge University Press. <https://www.ipcc.ch/report/ar6/wgl>
- Johnston, M dan Gillman. 1995. *Tree population Studies in Low Diversity Forest, Guyana. I Floristic Composition and Stand Structure Biodiversity and Conservation* 4: 339-362.
- Kenter, J.O. 2018. Disentangling 'ecosystem services' and 'nature's contributions to people'. *Ecosystems and People*, 15(1), 269–287. <https://doi.org/10.1080/26395916.2019.1669713>
- Komul, Yulianis D, *et al.* 2016. Analisis Kandungan Biomassa dan Karbon Tersimpan (Carbon Stock) pada PSP (Plot Sampling Parmanent) Hutan Negeri Soya Kota Ambon. *Jurnal Hutan Pulau Pulau Kecil*. Page 72-83.
- Kotowska, M. M., Leuschner, C., *et al.* 2015. *Quantifying above- and belowground biomass carbon loss with forest conversion in tropical lowlands of Sumatra*. *Glob Chang Biol*.
- Kusmana, C. 1997. *Metode Survey Vegetasi*, Bogor: Institut Pertanian Bogor.
- Kusmana, C. 2020. Mangrove Bisa Menyimpan Karbon 3-5 Kali Lebih Baik daripada Hutan Tropis Dataran Rendah.
- Lembaga Pengelola Hutan Nagari Paru (LPHNP). 2015. Rencana kerja hutan nagari (RKHN). Sijunjung: Lembaga Pengelola Hutan Nagari Paru (LPHNP).
- Maas, P. J. M., *et al.* 2001. Sapotaceae and its ecological niches. *Flora of the Guianas*, 42, 15–22.
- Manuri, S. 2011. *Pedoman Perhitungan Cadangan Karbon dan Serapan Emisi GRK Sektor Kehutanan*. Dalam: Kementerian Kehutanan. 2011. *Peraturan Menteri Kehutanan Nomor P.70/Menhut-II/2011 tentang Pedoman Inventarisasi Gas Rumah Kaca Sektor Kehutanan*. Jakarta: Kementerian Kehutanan Republik Indonesia.
- Meinshausen, M., *et al.* 2020. The SSP greenhouse gas concentrations and their extensions to 2500. *Geoscientific Model Development*, 13(8), 3571–3605. <https://doi.org/10.5194/gmd-13-3571-2020>
- Mendoza-Carino, A. 2022. The value of ecosystem services from carbon sequestration and storage. *Journal of Environmental Economics*, 45(2), 123-135.
- Morley, R. J., & van der Werff, H. 2013. The ecology and geography of the tropical flora of the Moraceae. In *Ecology of Tropical Plants* (pp. 120–135). Springer.
- Odum, E.P. 1998. *Dasar-dasar Ekologi* Edisi ke-3. Yogyakarta : Gajah Mada University press.

- Pascual, U., et al. 2010. Exploring the Links Between Equity and Efficiency in Payments for Environmental Services: A Conceptual Approach. *Ecological Economics*, 69(6), 1237-1244. DOI: 10.1016/j.ecolecon.2009.11.004
- Penman, J., Gytarsky, M., Hiraishi, T., Krug, T., Kruger, D., Pipatti, R., ... & Wagner, F. 2003. Good practice guidance for land use, land-use change and forestry.
- Poorter, L., et al. 2016. Biomass resilience of Neotropical secondary forests. *Nature*, 530(7589), 211-214. <https://doi.org/10.1038/nature16512>
- Purnawan, Eldy Indra. 2020. Potensi karbon dan jasa lingkungan : studi hutan lindung gunung bonding kabupaten murung raya, Kalimantan Tengah, Indonesia. *Jurnal Daun*, Vol. 7 (2):100-116.
- Rahmat, R., & Wibowo, T. 2023. "Keanekaragaman Hayati di Hutan Kota Bukit Langkisau." *Jurnal Kehutanan Indonesia*, 15(3), 55-63.
- Royal Botanic Gardens, Kew. 2025. *Hopea sangal*. Plants of the World Online. Diakses 20 Juni 2025, dari <https://powo.science.kew.org/taxon/urn:lsid:ipni.org:names:320988-1>
- Sari, M., et al. 2024. "Vegetation Diversity and Conservation in Bung Hatta Grand Forest Park." *Sumatra Biodiversity Studies*, 9(1), 21-35
- Soenarno. 2014. *Jasa Lingkungan dan Pengelolaannya*. Yogyakarta: Penerbit Andi.
- Sosef, M. S. M., et al. 2006. Phyllanthaceae of the tropical region: Ecology and biogeography. *Tropical Plant Biology*, 2(3), 97–112.
- Sribianti, Irma. 2022. Estimasi Biomassa, Cadangan Karbon, Produksi O₂, dan Nilai Jasa Lingkungan Serapan Tegakan CO₂ Tegakan Hutan di Taman Hutan Raya Abdul Latief. *Jurnal Hutan dan Masyarakat*. Vol. 14(1):12-26.
- Surat Keputusan Gubernur Sumatera Barat. 2015. Hak pengelolaan Hutan Nagari Paru (SK Gubernur Sumatera Barat No. 522.4-501-2015).
- Surat Keputusan Menteri Kehutanan. 2014. Penetapan areal kerja Hutan Nagari Paru (SK Menhut No. SK.507/Menhut-II/2014).
- Suyanto, S., Tomich, T. P., & Otsuka, K. 2005. Land Tenure and Farm Management Efficiency: The Case of Smallholder Rubber Production in Customary Land Areas of Sumatra. *Agroforestry Systems*, 66(1), 1-15. DOI: 10.1007/s10457-005-5940-0
- Taelman, S.E., De Luca Peña, L.V., Pr  at, N., et al. 2024. Integrating ecosystem services and life cycle assessment: a framework accounting for local and global (socio-)environmental impacts. *The International Journal of Life Cycle Assessment*, 29, 99–115. <https://doi.org/10.1007/s11367-023-02216-3>

- Tanjung, N. S. 2016. Komunikasi partisipatif dalam pengelolaan hutan nagari di Sumatera Barat (Thesis Master). Institut Pertanian Bogor, Bogor.
- Turner, I. M. 2001. The Ecology of Trees in the Tropical Rainforest. Cambridge University Press.
- Tursi, A. 2019. A review on biomass: Importance, chemistry, classification, and conversion. *Biofuel Research Journal*, 22, 962–979. <https://doi.org/10.18331/BRJ2019.6.2.3>
- United Nations Framework Convention on Climate Change (UNFCCC), 2024. REDD+. <https://unfccc.int/topics/land-use/workstreams/reddplus> diakses pada tanggal 1 September 2024.
- Van Balgooy, M. M. J. 1998. Plant Geography of the Pacific and Southeast Asia. Backhuys Publishers.
- van der Werff, H., & Figueiredo, J. 2012. Moraceae and their ecological distribution. *Journal of Tropical Ecology*, 28(3), 345–356. <https://doi.org/10.1017/S0266467412000278>
- Whitmore, T. C. 1990. Ecology of the dipterocarps: Rainforest vegetation and its environmental adaptation. *Ecological Studies*, 87, 112–128.
- Yuniawati, Budiaman A. dan Elias. 2011. estimasi potensi biomassa dan massa karbon hutan tanaman acacia crassicarpa di lahan gambut. *jurnal penelitian hasil hutan*. 29 (4). 343-355.

