

## DAFTAR PUSTAKA

- Adiriono, T. 2009. Pengukuran kandungan karbon (Carbon Stock) dengan metode karbonasi pada Hutan Tanaman jenis *Acacia crassicarpa* (Studi Kasus di HTI PT. Sebangun Bumi Andalas Woodbased Industries). *Thesis*. Program Studi S2 Ilmu Kehutanan, Jurusan Manajemen Hutan, Fakultas Kehutanan, Universitas Gajahmada, Yogyakarta. Tidak diterbitkan.
- Alba, J. M. F., V. F. Schroder, dan M. R. R. Noberga. (2012). *Land Cover Change Detection in Southern Brazil Through Orbital Imagery Classification Methods*. Dalam *Remote Sensing – Applications*. Editor D.B Escalante: Rijeka-Croatia. InTech.
- Antomi, Y. 2018. Model Prediksi Perubahan Penggunaan Lahan di Kota Padang. *Jurnal Geografi* Vol.7 No. 1 2018.
- Arief, A. 1994. Hutan, Hakikat dan Pengaruhnya Terhadap Lingkungan. *Yayasan Obor Indonesia*. Jakarta.
- Aparicio N, Villegas D, Araus JL, Casadesus J, Royo C. 2002. Relationship between growth traits and spectral vegetation indices in durum wheat. *Crop Sci*. 42:1547-1555.
- Asdak, C. 1995. *Hidrologi dan Pengelolaan Daerah Aliran Sungai*. Yogyakarta: Gadjah Mada University Press
- Baccini, A. S. J. Goetz, W. S. Walker, N. T. Laporte, M. Sun, D. Sulla-Menashe, J. Hackler, P. S. A. Beck, R. Dubayah, M. A. Friedl, S. Samanta and R. A. Houghton. *Estimated carbon dioxide emissions from tropical deforestation improved by carbon-density maps*. The Woods Hole Research Center, 149 Woods Hole Road, Falmouth, Massachusetts 02540, USA, Boston University, Department of Geography and Environment.
- Badan Pusat Statistik. 2020. "Potret Sensus Penduduk 2020, Menuju Satu Data Kependudukan Indonesia". Direktorat Statistik Kependudukan dan Ketenagakerjaan.
- Boer Rizaldi, Sulistyowati, Irsal Las, Farida Zed, Nur Masripatin, Dana Kartasmita, Dadang Hilman, Haneda Sri Mulyanto. 2009. *Indonesia Second National Communication Under The United Nations Framework Convention on Climate Change (UNFCCC)*.
- Brown, S., AZ. Shvidenko, W. Galinsk, R.A. Houghton, E.S. Kasische, P. Kauppi, W.A. Kerz, L.A. Nalder, and V.A. Rojkov, 1996: Forest and the global carbon cycle: past, present, and future role. In: *The Role of Forest*

*Ecosystems and Forest Management in the Global Carbon Cycle* [Apps. M. And D. Price (eds.)]. NATO ARW Series, Springer-Verlag. New York. NY, USA (is press).

Cahyono, B. E., A. T. Nugroho, dan J. Husen. (2018). Karakteristik Time Series Reflektansi Tanaman Padi Varietas Ciherang dengan Analisis RGB Citra Fotografi. *Jurnal Fisika FLUX* 15 (1): 59-65.

Chapin, 1995. *Urban and Land Use Planning: Fourth Edition*. Chicago: University of Illinois Press

Dixon, R. K., Brown, R. Houghton, R. A., Solomon, A. M., Trexier, M. C. and Wisniewski, J. 1994. Carbon pools and flux of global forest ecosystems. *Science* 263: 185–190.

Fageria, N.K., Baligar, V. C. & Jones, C. A. 1997. Growth and Mineral Nutrition of Field Crops. Marcel Dekker, Inc. New York.

FAO. 2011. *Global Food Losses and Food Waste- Extent, Causes And Prevention* rome

Forest Watch Indonesia. 2020. Diakses pada 10 Februari 2021, dari <https://fwi.or.id/publikasi/75-tahun-merdeka-hutan-indonesia-hilang-lebih-dari-75-kali-luas-provinsi-yogyakarta/>

Gong P, Wang J, Yu L, Zhao YC, Zhao YY, Liang L, Niu ZG, Huang XM, Fu HH, Liu S, Li CC, Li XY, Fu W, Liu CX, Xu Y, Wang XY, Cheng Q, Hu LY, Yao WB, Zhang H, Zhu P, Zhao ZY, Zhang HY, Zheng YM, Ji LY, Zhang YW, Chen H, Yan A, Guo JH, Wang L, Liu XJ, Shi TT, Zhu MH, Chen YL, Yang GW, Tang P, Xu B, Giri C, Clinton N, Zhu ZL, Chen J, Chen J. 2013. *Finer resolution observation and monitoring of global land cover: first mapping results with Landsat TM and ETM+ data*. *International Journal of Remote Sensing*. 34: 2607-2654.

Gunawan, H. dan L.B. Prasetyo. 2013. Fragmentasi Hutan : Teori yang mendasari penataan ruang hutan menuju pembangunan berkelanjutan. *Pusat Penelitian dan Pengembangan Konservasi dan Rehabilitasi*. Bogor.

Gumma MK, Thenkabail PS, Hideto F, Nelson A, Dheeravath V, Busia D, Rala A. 2011. *Mapping irrigated areas of Ghana using fusion of 30 m and 250 m resolution remotesensing data*. *Remote Sensing*. 3: 816-835.

Hansen MC, Defries RS, Townshend JRG, Sohlberg R. 2000. *Global land cover classification at 1km spatial resolution using a classification tree approach*. *International Journal of Remote Sensing*. 21: 1331-1364.

- Hairiah K dan Rahayu S. 2007. Petunjuk praktis Pengukuran karbon tersimpan di berbagai macam penggunaan lahan. *World Agroforestry Centre, ICRAF Southeast Asia*. ISBN 979-3198-35-4. 77.
- Harris, R. W. 1992. Arboriculture: Integrated Management of Landscape Trees, Shrubs, and Vines. *Prentice Hall Career & Technology*. New Jersey.
- Hermon, D. 2012. Dinamika Cadangan Karbon Akibat Perubahan Tutupan Lahan Menjadi Lahan Permukiman Di Kota Padang Sumatera Barat. Padang. *Forum Geografi*. 26(1) : 45-52
- Hotta, M. (1984). *Forest Ecology and Flora of G. Gadut, Sumatra Nature Study (Botany)*. Kyoto University. Kyoto. Hal: 220
- Hung, T. 2000. MODIS Application in Monitoring Surface Parameters. Institute of Industrial Science. Tokyo: University of Tokyo.
- Indriyanto, 2006. Ekologi Hutan. Jakarta: Penerbit PT Bumi Aksara
- Jia K, Xiangqin W, Xingfa G, Yunjun Y, Xianhong X, Bin L. 2014. *Land cover classification using Landsat 8 Operational Land Imager data in Beijing, China*. Geocarto International. 29: 941-951.
- Kauffman, J.B., Donato, D.C., 2012. *Protocols for the measurement, monitoring and reporting of structure, biomass and carbon stocks in mangrove forest*. Working Paper 86. CIFOR, Bogor, Indonesia.
- Karyati. 2014. Interaksi antara Iklim, Tanah dan Tanaman Tahunan. *Magrobis*, 14(2): 39-45.
- Karyati. 2019. *Mikroklimatologi Hutan*. Mulawarman University Press. Samarinda.
- Korner, C., Asshoff, R., Bignucolo, O., Hattenschwiler, S., Keel, S. G., Pelaez-Riedl, S., et al. (2005). Carbon flux and growth in mature deciduous forest trees exposed to elevated CO<sub>2</sub>. *Science*, 309(5739), 1360-1362.
- Kurniawan, W. D. W., & Farda, N. M. (2013). Fuzzy neural network capability studies in land cover Perpixel based classification using landsat7 ETM+. *Jurnal Bumi Indonesia*. 2(1).
- Krisnawati, H., Kallio, M. and Kanninen, M. 2011. *Aleurites moluccana (L.) Willd.: Ekologi, Silvikultur dan Produktivitas*. CIFOR, Bogor, Indonesia.

- Latuamury B, Gunawan T, Suprayogi S. 2012. Pengaruh Kerapatan Vegetasi Penutupan Lahan Terhadap Karakteristik Resesi Hidrografi pada Beberapa Subdas di Provinsi Jawa Tengah dan Provinsi DIY. *Majalah Geografi Indonesia (MGI)*. Vol 26, No.2.
- Lasco, R.D., J.S. Lales, M.T. Arnuevo, I.Q. Guillermo, A.C. de Jesus, R. Medrano, O.F. Bajar, and C.V. Mendoza. 2002. Carbon dioxide (CO<sub>2</sub>) storage and sequestration of land cover in the Leyte Geothermal Reservation. *Renewable Energy* 25: 307-315.
- Lasco RD. 2004. *Forest carbon budgets in Southeast Asia following harvesting and land cover change*. In: *Impacts of land use Change on the Terrestrial Carbon Cycle in the Asian Pacific Region'*. Sciencein China Vol. 45, 76-86.
- Lasco, RD AND FB Pulhin. 2006. *Laguna Lake Basin and Sierra Madre Community Forests, the Philippines*. In *Community Forest Management as a Carbon Mitigation Option: Case Studies* (D Murdiyarso And M Skutsch, eds). Center for International Forestry Research, Bogor Barat, Indonesia. Pp 51-59.
- Lillesand TM, Kiefer RW. 1997. *Penginderaan Jauh dan Interpretasi Citra*. Yogyakarta: Gadjah Mada University Press.
- Liu JY, Zhuang DF, Luo D, Xiao X. 2003. *Land-cover classification of China: integrated analysis of AVHRR imagery and geophysical data*. *International Journal of Remote Sensing*. 24:2485-2500.
- Lufilah, N.S, Makalew DN.A, Sulistyantara, B. 2017. *Pemanfaatan Citra Landsat 8 untuk Analisis Indeks Vegetasi di DKI Jakarta*.
- Lulla K, Duane Nellis M, Rundquist B. 2013. *The Landsat 8 is ready for geospatial science and technology researchers and practitioners*. *Geocarto International*. 28: 191-191.
- Nakasone, H.Y. & Paull R.E. 1998. *Tropical Fruits*. CAB International. UK.
- Malcolm, J.R., J.R., Liu, C., Neilson, R.P., Hansen, L. Dan Hannah, L.2006. *Global Warming and extinctions of endemic species from biodiversity hotspots*. *Conservation Biology* 20(2): 538-548.
- Mann, M. E., and Hughes, M. K. (2002). Tree-ring chronologies and climate variability. *Science*, 296(5569), 848-848.

- Mukhtar, E; E. Suzuki; T. Kohyama and M. Rahman. 1992. Regeneration Process of a Climax Species *Calophyllum* cf. *soulattri* in Tropical Rain Forest of West Sumatra. *Tropics* 2(1); 1-12
- Mukhtar, E; T. Yoneda; Zalfiati and M. Rahman. 1998. *Regeneration process of a climax species Calophyllum soulattri in tropical rain forest of West Sumatra*. *Tropics* 2(1); 1-12
- Mukhtar, E; Syamsuardi and Hermansah. 2014. *The change of tree diversity and carbon stock during three decades in Ulu Gadut, West Sumatra*. 2014. The Inaugural Asian Conference on the Life Sciences & Sustainability (ACLS), Hiroshima.
- Mukhtar, E and Fumito Koike. 2009. *Juvenile height growth rate of seven major tree species in a tropical rain forest of West Sumatra*. *Tropics*. 18(1).
- Parry, M.L., Canziani, O.F. dan Palutikof, J.P. 2007. Technical summary. Dalam: Parry, M.L., Canziani, O.F., Palutikof, J.P., Van der Linden, P.J dan Hanson, C.E (eds) *Climate change 2007: impacts, adaptation and vulnerability. Contribution of Working Group II to the fourth assessment report of the Intergovernmental Panel on Climate Change*, 23-78. Cambridge University Press, Cambridge, UK.
- Pearson, T.R.H., Brown, S., Ravindranath N.H. 2007. *Integrating Carbon Benefit Estimates into GEF Projects*. UNDP. Global Environment Facility.
- Pregitzer, K., and Euskirchen, E. S. 2004. *Carbon cycling and storage in world forests: biome patterns related to forest age*. *Global change biology*, 10(12), 2052-2077.
- Rahayu S, Bertha L, Van Noordwijk M. 2005. *Pendugaan Cadangan Karbon di atas Permukaan Tanah Pada Berbagai Sistem Penggunaan Lahan di Kabupaten Nunukan Kalimantan Timur*. Word Agroforestry Centre.
- Rakhmawati, M. 2012. *Pemanfaatan Citra Landsat untuk Estimasi Biomassa Atas Permukaan dari Berbagai Penutupan Lahan dengan Pendekatan Indeks Vegetasi*. IPB. Bogor.
- Sampurno, R.M., dan A. Thoriq. (2016). *Klasifikasi Tutupan Lahan Menggunakan Citra Landsat 8 Operational Land Imager (OLI) Di Kabupaten Sumedang*. *Jurnal Teknotan* 10:61.
- Sedjo R.A & A.M. Solomon. 1988. *Climate and forests*. In: Rosenberg NJ, Easterling III WE, Crosson PR, Darmstadter J (eds) *Greenhouse warming: abatement and adaptation Proceedings of a workshop held in*

Washington DC; 14-15 June, 1988, Resources for the Future, Washington DC, pp 105-119.

Sudana, M., Uluk A., dan Wollenberg E., 2001. *Ketergantungan masyarakat Dayak terhadap Hutan di sekitar Taman Nasional Kayan Mentarang*. Center for International Forest Research. Jakarta

Suharyadi (2000). Transformasi Spektral Data Digital Landsat TM untuk Pemetaan Kepadatan Bangunan di Daerah Perkotaan Yogyakarta. Yogyakarta: Lembaga Penelitian UGM.

Suhendang. 2002. Pengantar Ilmu Kehutanan Bogor. Fakultas Kehutanan IPB.

Sumardi dan Widyastuti. 2007. Dasar-dasar Perlindungan Hutan, UGM Press. Yogyakarta

Suwardi A, B. Mukhtar, E. Syamsuardi. 2013: Komposisi Jenis dan Cadangan Karbon di Hutan Tropis Dataran Rendah, Ulu Gadut, Sumatera Barat. Berita Biologi 12(2)-Agustus 2013.

Thenkabail PS, Biradar CM, Noojipady P, Dheeravath V, Li YJ, Velpuri M, Gumma M, Gangalakunta ORP, Turral H, Cai XL, Vithanage J, Schull MA, Dutta R. 2009. *Global irrigated area map (GIAM), derived from remote sensing, for the end of the last millennium*. International Journal of Remote Sensing. 30: 3679-3733.

Universitas Andalas. 2014: "Gunung Gadut Padang Menjadi Pusat Perhatian Biodiversity Dunia". Diakses pada 09 Februari 2021, dari <https://green.unand.ac.id/gunung-gadut-padang-menjadi-pusat-perhatian-biodiversity-dunia/>

USGS. 2016. LANDSAT 8 (L8) DATA USERS HANDBOOK. Department of the Interior U.S. Geological Survey.

Yoneda T, Nishimura S, Fujii S, Mukhtar E. 2009. *Tree guild composition of a hill dipterocarp forest in West Sumatra, Indonesia*. Tropics 18:143-154.

Yoneda T, Mizunaga H, Nishimura S, Fujii S, Tamin R. 2006. *Stand structure and dynamics of a tropical secondary forest: a rural forest in West Sumatra, Indonesia*. Tropics 15:189-199