

DAFTAR PUSTAKA

- Akram, W. (2015). *MADIMAP*. Tenggara: Planete Urgence.
- Anderson, J. R., Hardy, E. E., Roach, J. T., & Witmer, R. E. (1976). *A Land Use And Land Cover Classification System For Use With Remote Sensor Data*. Washington DC: U.S. Geological Survey.
- Asmaradewi, G., Rusjanto, J., & Argubie, B. (2012). Challeges of oil and gas E&P operations in environmentally & socially sensitive area: lessons learned from Mahakam. Perth, Australia: SPEA/APPEA International Conference on Health, Safety, and Environmental in Oil and Gas Production, 11-13 September 2012.
- Badan Lingkungan Hidup Prov. Kaltim. (2014). *Peran Badan Lingkungan Hidup Prov. Kaltim sebagai Mitra DDPI*. Retrieved September 25, 2015, from http://www.gcftaskforce.org/content/training_program/2014/indonesia1/documents/balikpapan/presentations_and_lectures/peran_blh_pada_perubahan iklim .pdf
- Baten, M. A. (2009). *Proverty right in mangrove: A case strudy of the Mahakam Delta, East Kalimantan, Indonesia*. Stockholm: Master Thesis. University of Stockholm.
- Bengen, D. G. (2001). Ekosistem dan sumberdaya pesisir dan laut serta pengelolaan secara terpadu dan berkelanjutan. In D. Bengen (Ed.), *Prosiding Pelatihan Pengelolaan Wilayah Pesisir Terpadu* (pp. 28-55). Bogor: Pusat Kajian Sumberdaya Pesisir dan Lautan.
- Biswas, S., Mallik, A., Choudhury, J., & Nishat, A. (2009). A unified framework for the restoration of Southeast Asian mangrove - bridging ecology, society and economics. *Wetland Ecol Manage*, 17, 365-383. doi:10.1007/s11273-008-9113-7
- Bogaert, J., Hecke, P. v., Eysenrode, D. S., & Impens, I. (2000). Landscape Fragmentation Assessment Using a Single Measure. *Wildlife Society Bulletin*, 28(4), 875-881.
- Bosire, J., Dahdouh-Guebas, F., Walton, M., Crona, B., Lewis III, R., Field, C., . . . Koedam, N. (2008). Functionality of restored mangroves: A review. *Aquatic Botany*, 89, 251-259.

- Bosma, R., Sidik, A., van Zwieten, P., Aditya, A., & Visser, L. (2012). Challenges of transition to a sustainability managed shrimp culture agro-ecosystem in the Mahakam delta, East Kalimantan, Indonesia. *Wetlands Ecol Manage*, 20, 89-99.
- BPS Kab. Kutai Kartanegara. (2014a). *Kecamatan Anggana dalam angka 2014*. Tenggarong: Badan Pusat Statistik Kabupaten Kutai Kartanegara.
- BPS Kab. Kutai Kartanegara. (2014b). *Kecamatan Muara Jawa dalam angka 2014*. Tenggarong: Badan Pusat Statistik Kabupaten Kutai Kartanegara.
- BPS Kab. Kutai Kartanegara. (2014c). *Kecamatan Muara Badak dalam angka 2014*. Tenggarong: Badan Pusat Statistik Kabupaten Kutai Kartanegara.
- Brown, J. (1994). Grand Challenges in Scalling up Environmental Research. In W. Michener, J. Brunt, & S. Standford (Eds.), *Environmental Information Management and Analisis: Ecosystem to Global Scale*. London: Taylor and Francis.
- Carney, J., Gillespie, T., & Rosomoff, R. (2014). Assessing forest change in a priority West African mangrove ecosystem: 1986–2010. *Geoforum*, 53, 126-135.
- Chander, G., Markham, B., & Helder, D. L. (2009). Summary of current radiometric calibration coefficients for Landsat MSS, TM, ETM+, and EO-1 ALI sensors. *Remote Sensing of Environment* 113, 893-903.
- Cicin-Sain, B., & Knecht, R. (1998). *Integrated coastal and ocean management*. Washington, DC 20009: Island Press.
- Clarke, L., & Hannon, N. (1970). The mangrove and salt marsh communities of the Sydney district. III. Plant growth in relation to salinity and waterlogging. *Journal of Ecology*, 58, 351-369.
- Constanza, R., d'Arge, R., de Groot, R., Farber, S., Grasso, M., Hannon, B., . . . Belt, M. (1997). The value of the world's ecosystem services and natural capital. *Nature*, 387, 253-260.
- Danoedoro, P. (2012). *Pengantar Penginderaan Jauh Digital*. Yogyakarta: Penerbit Andi.
- Dianawati, L. (2013). Kajian peran lembaga dan kearifan masyarakat dalam pengelolaan ekosistem hutan mangrove secara terpadu di delta Mahakam. *Tesis*. Yogyakarta: Sekolah Pascasarjana Universitas Gadjah Mada.

- DKP Kab. Kutai Kartanegara. (2014). *Laporan statistik kelautan dan perikanan tahun 2013*. Tenggarong: DKP Kabupaten Kutai Kartanegara.
- Dutrieux, E. (1991). Study of the ecological functioning of the Mahakam delta (East Kalimantan, Indonesia). *Estuarine, Coastal and Shelf Science*, 32, 415-420.
- Dutrieux, E. (2001). The Mahakam Delta environment from the 80's up to now: A synthesis of a 15-years investigation. *Proceeding of The International Workshop: Optimizing development and environmental Issues at Coastal Area, Problem and solution for sustainable at Mahakam Delta*. April 2000. pp 63-68.
- Dutrieux, E., Creocan, Proisy, C., Fromard, F., & Walcker, R. (2014). Mangrove restoration in the vicinity of oil and gas facilities: Lessons learned from a large scale project. Long Beach, United States of America: *SPE International Conference on Health, Safety, and Environment*. 17 March 2014 - 19 March 2014.
- Dutrieux, E., Denis, J., & Populus, J. (1990). Application of SPOT data to a base-line ecological study of Mahakam delta mangroves (East Kalimantan, Indonesia). *Oceanologica Acta*, 13(3), 317-326.
- European Commision. (2012). *Integrated Coastal Zone Management: OURCOAS outcomes and lessons learned*. Luxembourg: European commission.
- Fahrig, L. (2003). Effect of habitat fragmentation on biodiversity. *Annu. Rev. Ecol. Evol. Syst.*, 34, 487-515.
- FAO. (1994). *Mangrove forest management guidelines*. Rome: Forest Resources Development Branch, Forest Resources Division, FAO Forestry Departement.
- FAO. (2007). *The world's mangrove 1980-2005: A thematic study prepared in the framework in the Global Forest Resources Assessment 2005*. Rome: Food and Agriculture Organization of the United Nations.
- FAO. (2013). *FAO Statistical Yearbook 2013 - World food and agriculture*. Rome: Food and Agriculture Organization of the United Nations.
- Fei, S., Shan, C., & Hua, G. (2011). Remote Sensing of Mangrove Wetlands Identification. *Procedia Environmental Sciences*, 10, 2287-2293.
- Field, C. D. (1998). Rehabilitation of mangrove ecosystem: An overview. *Marine Pollution Bulletin*, 37(8-12), 383-392.

- Field, C. D. (1999). Mangrove rehabilitation: choice and necessity. *Hydrobiologia*, 413, 47-52.
- FitzGerald, W. (2002). Silvofisheries: Integrated mangrove forest aquaculture system. In Barru A. Costa-Pierce (Ed.), *Ecological Aquaculture: The Evolution of the Blue Revolution* (pp. 161-262). Blackwell Publishing Ltd.
- Franklin, A., Noon, B., & George, T. (2002). What is habitat fragmentation? *Studies in Avian Biology*, 25, 20-29.
- Gao, J. (1999). A comparative study on spatial and spectral resolutions of satellite data in mapping mangrove forest. *International Journal of Remote Sensing*, 20(14), 2823-2833.
- Giri, C., Ochieng, E., Tieszen, L., Zhu, Z., Singh, A., Loveland, T., . . . Duke, N. (2011). Status and distribution of mangrove forest of the world using earth observation satellite data. *Global Ecology and Biogeography*, 20, 154-159.
- Giri, S., Mukhopadaya, A., Hazra, S., Mukherjee, S., Roy, d., Ghosh, S., . . . Mitra, D. (2014). A study on abundance and distribution of mangrove species in Indian Sundarban using remote sensing technique. *Journal of Coastal Conservation*, 18(4), 359-367. doi:10.1007/s11852-014-0322-3
- Green, E., Clark, C., Mumby, P., Edward, A., & Ellis, A. (1998). Remote sensing techniques for mangrove mapping. *Int. Journal of Remote Sensing*, 19, 935-956.
- Hogarth, P. (2007). *The biology of mangrove and seagrass*. New York: Oxford University Press Inc.
- Horning, N., Robinson, J., Sterling, E., Turner, W., & Spector, S. (2010). *Remote Sensing for Ecology and Conservation* (1st ed.). New York: Oxford University Press.
- Ilsever, M., & Ünsal, C. (2012). *Two-Dimensional Change Detection Methods: Remote Sensing Applications*. Springer London Heidelberg New York Dordrecht: Springer.
- Janssen, R., & Padilla, J. (1999). Preservation or conservation? Valuation and evaluation of a mangrove forest in the Philippines. *Environmental and Resource Economics*, 14, 297-331.

- Jia, M., Wang, Z., Li, L., Song, K., Ren, C., Liu, B., & Mao, D. (2013). Mapping China's mangroves based on an object-oriented classification of Landsat imagery. *Wetlands*, 34(2), 277-283.
- Joffre, O., Bosma, R., Bregt, A., van Zwieten, P., Bush, S., & Verreth, J. (2015). What drives the adoption of integrated shrimp mangrove aquaculture in Vietnam. *Ocean & Coastal Management*, 114, 53-63.
- Kuenzer, C., Bluemel, A., Gebhardt, S., Quoc, T., & Dech, S. (2011). Remote Sensing of Mangrove Ecosystems: A Review. *Remote Sensing*, 3, 878-928.
- Kustanti, A., Nugroho, B., Darusman, D., & Kusmana, C. (2012). Integrated management of mangrove ecosystem in Lampung Mangrove Center (LMC) East Lampung Regency, Indonesia. *Journal of Coastal Development*, 15(2), 209-216.
- Lavery, M., & Gibbs, J. (2007). Ecosystem loss and fragmentation. In E. Sterling, & N. Bynum (Eds.), *Lesson in conservation I* (pp. 72-96). New York: Center for Biodiversity and Conservation of the American Museum of Natural History.
- Lee, S. Y. (1999). Tropical mangrove ecology: Physical and biotic factors influencing ecosystem structure and function. *Australian Journal of Ecology*, 24, 355-366.
- Lee, T.-M., & Yeh, H.-C. (2009). Applying remote sensing techniques to monitor shifting wetland vegetation: A case study of Danshui River estuary mangrove communities, Taiwan. *Ecological Engineering*, 35(4), 487-496.
- Li, M., Mao, L., Shen, W., Liu, S., & Wei, A. (2013). Change and Fragmentation Trends of Zhanjiang Mangrove Forest in Southern China using Multi-temporal Landsat Imagery (1977-2010). *Estuarine, Coastal and Shelf Science*, 130, 111-120.
- Lillesand, T., Kiefer, R., & Chipman, H. (2008). *Remote Sensing and Image Interpretation* (Sixth ed.). New York: John Wiley & Son.
- Looijen, J., Pelesikoti, N., & Staljanssens, M. (1995). ICOMIS: a spatial multi-objective decision support system for coastal resource management. *ITC Journal*, 3, 2002-216.
- Macintosh, D., & Ashton, E. (2003). *A draft code of conduct for the sustainable management of mangrove ecosystem*. World Bank, ISME, Centre for Tropical Ecosystem Research (cenTER Aarhus).

- MacKinnon, K., Hatta, G., Halim, H., & Mangalik, A. (1996). *The Ecology of Kalimantan: Indonesian Borneo* (Volume 3 from Ecology of Indonesia series ed.). Tai Seng Avenue, Singapore: Periplus Editions (HK) Ltd.
- McGarigal, K. (2001). *Landscape Metrics for Categorical Map Patterns*. Retrieved Desember 2013, from http://www.umass.edu/landeco/teaching/landscape_ecology/schedule/chapter9/metrics.pdf
- Meijaard, E., Sheil, D., Nasi, R., Rosenbaum, B., Iskandar, D., Setyawati, T., . . . O'Brien, T. (2006). *Hutan pasca pemanenan: Melindungi satwa liar dalam kegiatan hutan produksi di Kalimantan*. Jakarta: Center for International Forestry Research.
- Melana, D., Atchue III, J., Yao, C., Edwards, R., Melana, E., & Gonzales, H. (2000). *Mangrove Management Handbook*. Cebu City, Philippines: Department of Environment and Natural Resources, Manila, Philippines through the Coastal Resource Management Project.
- MFF in Thailand. (2011). *Thailand: National Strategy and Action Plan 2011-2013*. Bangkok, Thailand: Departement of Marine and Coastal Resources Thailand and Mangrove for Future (MFF) International Union for Coservation of Nature (IUCN).
- Myint, S., Giri, C., Wang, L., Zhu, Z., & Gillette, S. (2008). Identifying mangrove species and their surrounding land use and land cover classes using an object oriented approach with a lacunarity spatial measure. *GIScience & Remote Sensing*, 45(2), 188-208. doi:10.2747/1548-1603.45.2.188
- Opa, E. T. (2010). Analisis perubahan luas lahan mangrove di Kabupaten Pohuwato Provinsi Gorontalo dengan menggunakan citra Landsat. *Jurnal Perikanan dan Kelautan*, VI-2, 79-82.
- Owen, T., Carlson, T., & Gillies, R. (1998). Remotely sensed surface parameters governing urban climate change. *Internal Journal of Remote Sensing*, 19, 1663-1681.
- Peng, Y., Chen, G., Li, S., Liu, Y., & Pernetta, J. (2013). Use of degraded coastal wetland in an integrated mangrove- aquaculture system: a case study from the South China Sea. *Ocean and Coastal Managemen*, 85, 209-213.

- Powell, N., & Osbeck, M. (2010). Approaches for understanding and embedding stakeholder realities in mangrove rehabilitation processes in Southeast Asia: Lessons learnt from Mahakam Delta, East Kalimantan. *Sustainable Development*, 18, 206-270.
- Primavera, J. (2015). *Aquaculture in mangrove - why should we/how can we?* Retrieved September 23, 2015, from <http://www.beijer.kva.se/ftp/WIOAQUA/Primavera.pdf>
- Rahman, A., Dragoni, D., Didan, K., Bareto-Munoz, A., & Hutabarat, J. (2013). Detecting large scale conversion of mangroves to aquaculture with change point and mixed-pixel analyses of high-fidelity MODIS data. *Remote Sensing of Environment*, 130, 96-107.
- Ramachandra, T., & Kumar, U. (2004). Geographic Resources Decision Support System for Land Use, Land Cover Dynamics Analysis. Bangkok, Thailand: *Proceedings of the FOSS/GRASS Users Conference*.
- Rigo, G., Parlow, E., & Oesch, D. (2006). Validation of satellite observed thermal emission with in-situ measurements over an urban surface. *Remote Sensing of Environment* 104, 201 - 210.
- Salahuddin. (2014). Peran mangrove dalam menetralisasi logam berat pada tambak udang di kawasan delta mahakam. *Disertasi*. Yogyakarta: Sekolah Pascasarjana Universitas Gadjah Mada.
- Samad, A., Bambang, A., & Afiati, N. (2013). Coastal people activity on mangrove forest rehabilitation in Mahakam estuary. *International Journal of Waste Resources*, 3(1), 34-39.
- Schmitz, O. J. (2007). *Ecology and ecosystem conservation*. Washington DC, Amerika Serikat: Island Press.
- Seto, K., & Fragkias, M. (2007). Mangrove Conversion and Aquaculture Development in Vietnam: A Remote Sensing - Based Approach for Evaluating the Ramsar Convention on Wetland. *Global Environmental Change*, 17, 486-500.
- Sidik, A. S. (2008). The changes of mangrove ecosystem in Mahakam delta, Indonesia : A complex social-environmental pattern of linkage in resources utilization. Kuantan, Malaysia: The South China Sea: Sustain Ocean Productivities, Maritime Communities and the Climate, 25-29 November 2008.

- Simard, M., Zhang, K., Rivera-Monroy, V., Ross, M., Ruiz, P., Castañeda-Moy, E., . . . Rodriguez, E. (2006). Mapping Height and Biomass of Mangrove Forests in Everglades National Park with SRTM Elevation Data. *Photogrammetric Engineering & Remote Sensing*, 72(3), 299–311.
- Smith, T. (1992). Forest Structure. In A. Robertson, & D. Alongi (Eds.), *Tropical Mangrove Ecosystem* (pp. 101-136). Washington DC: American Geophysical Union.
- Stehman, S. V., & Czaplewski, R. L. (1998). Design and Analysis for Thematic Map Accuracy Assessment: Fundamental Principles. *Remote Sensing Environment Vol. 64*, 331-334.
- Stevenson, N., Lewis, R., & Burbridge, P. (1999). Disused shrimp ponds and mangrove rehabilitation. In W. Streever (Ed.), *An International Perspective on Wetland Rehabilitation* (pp. 277-296). Kluwer Academic Publishers.
- Sukardjo, S. (2002). Integrated coastal zone management (ICZM) in Indonesia: A view from mangrove ecologist. *Southeast Asian Studies*, 40(2), 200-218.
- Sulong, I., Mohd-Lokman, H., Mohd-Tarmizi, K., & Ismail, A. (2002). Mangrove mapping using Landsat imagery and aerial photographs: Kemaman district, Terengganu, Malaysia. *Environment, Development and Sustainability*, 4, 135-152.
- Summerfield, M. A. (1991). *Global Geomorphology. An Introduction to the Study of Landforms*. New York: John Wiley Inc.
- Takashima, F. (2000). Silvofishery: an aquaculture system harmonized with the environment. In J. Primavera, L. Garcia, M. Custanos, & M. Surtida (Ed.), *Mangrove-Friendly Aquaculture: Proceedings of the Workshop on Mangrove-Friendly Aquaculture organized by SEAFDEC Aquaculture Department, January 11-15, 1999* (pp. 13-19). Tigbauan, Iloilo, Philippines: Philippines: Southeast Asian Fisheries Development Center, Aquaculture Departemen. Retrieved from <http://hdl.handle.net/10862/1976>
- Tomlinson, P. B. (1995). *The Botany of Mangroves*. New York: Cambridge University Press.
- Uddin, S., Hoque, A., & Abdullah, S. (2014). The changing landscape of mangroves in Bangladesh compared to four other countries in tropical regions. *Journal of Forestry Research*, 25(3), 605-611.

- UNESCO. (1997). *Methodological guide to integrated coastal zone management*. France: Intergovernmental Oceanographic Commission, UNESCO.
- Valderrama, L., Troche, C., Rodriguez, M., Marquez, D., Vazquez, B., Velazquez, S., . . . Ressler, R. (2014). Evaluation of mangrove cover changes in Mexico during the 1970-2005 period. *Wetlands*, 34(4), 747-758. doi:10.1007/s13157-014-0539-9
- van Zwieten, P., Sidik, A., Noryadi, Suyatna, I., & Abdunnur. (2006). Aquatic food production in the coastal zone: Data-based perceptions on the trade-off between mariculture and fisheries production of the Mahakam Delta and estuary, East Kalimantan, Indonesia. In C. Hoanh, T. Tuong, J. Gowing, & B. Hardy (Eds.), *Environment and livelihoods in tropical coastal zones: Managing agriculture - fishery - aquaculture conflict* (pp. 219-236). Wallingford, UK: CAB International.
- Vogt, P., Riiter, K., Estreguil, C., Kozak, J., Wade, T., & Wickham, J. (2007). Mapping spatial pattern with morphological image processing. *Landscape Ecology*, 22, 171-177. doi:10.1007/s10980-006-9013-2
- Wahyuni, Y., Putri, E., & Simanjuntak, S. (2014). Valuasi total ekonomi hutan mangrove di kawasan Delta Mahakam Kabupaten Kutai Kartanegara Kalimantan Timur. *Jurnal Penelitian Kehutanan Wallacea*, 3(1), 1-12.
- Wang, L., Sousa, W., Gong, P., & Biging, G. (2004). Comparison of IKONOS and QuickBird images for mapping mangrove species on the Caribbean coast of Panama. *Remote Sensing of Environment*, 91(3-4), 432-440.
- Wasenbeeck, B., Balke, T., Eijk, P., Tonneijk, F., Siry, H., Rudianto, M., & Winterwerp, J. (2015). Aquaculture induced erosion of tropical coastlines throws coastal communities back into poverty. *Ocean & Coastal Management*, 116, 466-469.
- Watson, J. (1928). *Mangrove forest of the Malay peninsula: Malayan forest record No. 6*. Malaysi: Federates Malay States.
- Youssef, T., & Saenger, P. (1999). Mangrove zonation in Mobbs Bay - Australia. *Estuarine, Coastal and Shelf Science*, 49, 43-50.