

## DAFTAR PUSTAKA

- Alik, R. (2020). *Jenis-Jenis Karang di Perairan Teluk Ambon*. Jakarta: LIPI Press.
- Arifin, S. (2015). Studi Komposisi Penyusun Terumbu Karang Tepi (Fringing Reef) di Pulau Mandangin Kabupaten Sampang, Madura. *Skripsi*. Universitas Brawijaya, Malang.
- Arjasakusuma, S., Kamal, M., Hafizt, M., & Forestriko, H. F. (2018). Local-scale accuracy assessment of vegetation cover change maps derived from Global Forest Change data, ClasLite, and supervised classification: case study at part of Riau Province, Indonesia. *Geomatics*, 205-217.
- BAPPEDA. (2013). Kabupaten Sampang. *Potensi dan Produk Unggulan Jawa Timur*.
- BPS. (2021). Kabupaten Sampang. *Kecamatan Sampang Dalam Angka 2021*.
- Basri, A. (2019). *jawa Pos Radar*. Retrieved Mei 2, 2020, from [radarmadura.jawapos.com](http://radarmadura.jawapos.com):  
<https://radarmadura.jawapos.com/read/2019/09/11/155226/wacanakan-Mandangin-jadi-destinasi-wisata-baru>
- Breiman, L. (2001). Random Forest. *Machine Learning*, 5-32.
- Breiman, L. (2004). CONSISTENCY FOR A SIMPLE MODEL OF RANDOM FORESTS. *Technical Report 670*.
- Browne, M. A., Niven, S. J., Galloway, T. S., Rowland, S. J., & Thompson, R. C. (2013). Microplastic Moves Pollutants and Additives to Worms, Reducing Functions Linked to Health and Biodiversity. *Current Biology*, 2388-2392.
- Brownlee, J. (2016). *Master Machine Learning Algorithms*. Melbourne: Machine Learning Mastery.
- Campbell, J. B., & Wynne, R. H. (2011). *Introduction to Remote Sensing*. New York & London: The Guilford Press.
- Conger, C. L., Hochberg, E. J., Fletcher, C. H., & Atkinson, M. J. (2006). Decorrelating Remote Sensing Color Bands From Bathymetry in Optically Shallow Waters. *IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING*, 1655-1660.
- Danoedoro, P. (1996). *Pengelolaan Citra Digital, Teori dan Aplikasinya dalam Penginderaan Jauh*. Yogyakarta: Universitas Gadjah Mada.
- Danoedoro, P. (2012). *Pengantar Penginderaan Jauh Digital*. Yogyakarta: CV ANDI OFFSET.

- English, S., Wilkinson, C., & Baker, V. (1997). *Survei Manual for Tropical Marine Resource 2nd Edition*. Townsville: Australian Institute of Marine Science.
- Fawzi, N. I. (2016). *Penginderaan Jauh Untuk Lingkungan dan Konservasi*. Yogyakarta: Ombak.
- Franklin, J. (2009). *Mapping Species Distributions, Spatial Inference and Prediction*. New York: Cambridge University Press.
- Gao, J. (2009). Bathymetric mapping by means of remote sensing: Methods, accuracy and limitations. *Progress in Physical Geography*, 103-116.
- Giyanto, Manuputty, A. E., Abrar, M., Siringoringo, R. M., Suharti, S. R., Wibowo, K., . . . Zulfanita, D. (2014). *Panduan Monitoring Kesehatan terumbu Karang*. Jakarta: PT Sarana Komunikasi Utama.
- Giyanto, Abrar, M., Hadi, T. A., Budiyo, A., Hafizt, M., Salatalohy, A., & Iswari, M. Y. (2017). *Status Terumbu Karang Indonesia 2017*. Jakarta Utara: LIPI.
- Goodman, J. A., Lee, Z., & Ustin, S. L. (2008). Influence of atmospheric and sea-surface corrections on retrieval of bottom depth and reflectance using a semi-analytical model: a case study in Kaneohe Bay, Hawaii. *APPLIED OPTICS*, F1-F11.
- Goodman, J. A., Purkis, S. J., & Phinn, S. R. (2013). *Coral Reef Remote Sensing; A Guide for Mapping, Monitoring and Management*. New York London: Springer Dordrecht Heidelberg.
- Hadi, T. A., Giyanto, Prayudha, B., Hafizt, M., Budiyo, A., & Suharsono. (2018). *Status Terumbu Karang Indonesia 2018*. Jakarta: Pusat Penelitian Oseanografi-LIPI.
- Hafezi, M., Sahin, O., Stewart, R. A., Connolly, R. M., Mackey, B., & Ware, D. (2019). Adaptation Strategis for Coirial Reef Ecosystem in Small Island Developing Satates: Integrated Modelling of Local Pressures and Longterm Climate Change. *Journal of Cleaner Production*, 1-16.
- Hakim, L., Lazuardi, W., Astuty, I. S., Hadi, A. A., Hermayani, R., Noviandas, D., & Dewi, A. C. (2017). Penilaian Kesehatan Terumbu Karang Menggunakan Citra Satelit WorldView-2 di Pulau Pahawang, Lampung, Indonesia. *Inovasi Teknologi Penyediaan Informasi Geospasial untuk Pembangunan Berkelanjutan*, 125-134.
- Handayani, C. N. (2005). Pemanfaatan Citra Landsat TM/ETM dan SIG untuk Perubahan Terumbu Karang di Pulau Menjangan Besar dan Menjangan Kecil Kepulauan Karimunjawa. *Tesis*. Universitas Gadjah Mada, Yogyakarta.

- Harvey, M. (2011). *Tropical coral reefs are very productive ecosystems. Not only are do they support enormous biodiversity, they are also of immense value to humankind*. Retrieved 24, 2020, from World Wide Fund for Nature (WWF, 1986): [https://wwf.panda.org/our\\_work/oceans/coasts/coral\\_reefs/coral\\_importance.cfm/](https://wwf.panda.org/our_work/oceans/coasts/coral_reefs/coral_importance.cfm/)
- Hedley, J. D., Harborne, A. R., & Mumby, P. J. (2005). Technical note: Simple and Robust Removal of *Sun glint* for Mapping Shallow Water Benthos. *Journal of Remote Sensing*, 2107-2112.
- Hidayah, Z., & Nuzula, N. I. (2019). Pemetaan Sebaran terumbu Karang Studi Kasus Selat Madura, Jawa Timur. *Kelautan Tropis*, 127-134.
- Hoegh-Guldberg, O. (1999). Coral Bleaching, Climate Change and The Future of The World's Coral Reef. *Marine and Freshwater*, 839-866.
- Immitizer, M., Atzberger, C., & Koukal, T. (2012). Tree Species Clasification With Random forest Using Very High spatial Resolution 8-Band WorldView-2 Satelit Data. *Remote Sensing*, 2661-2693.
- Jaber, H. S. (2019). Estimation and Reduction of Noise from Remotely Sensed Imagery Using Minimum Noise Fraction Techniques. *Acta Scientific Agriculture*, 102-106.
- Japkowicz, N., & Stephen, S. (2002). The Class Imbalance Problem: A Systematic Study. *Intelligent Data Analysis*, 203-231.
- Jensen, J. R. (2005). *Introductory Digital Image Processing; A Remote Sensing Perspective 3rd ed*. New York: Pearson Education Inc..
- Kay, S., Hedley, J. D., & Lavender, S. (2009). Sun Glint Correction of High and Low Spatial Resolution Images of Aquatic Scenes: a Review of Methods for Visible and Near-Infrared Wavelengths. *Remote Sensing*, 697-730.
- Keivan, K., Biswajeet, P., Kaveh, S. N., & Masoud, M. (2013). Detecting coral bleaching, using QuickBird multi-temporal data: A feasibility study at Kish Island the Persian Gulf. *Estuarine, Costal and Shelf Science*, 273-281.
- Kutser, T., Vahtmäe, E., & Praks, J. (2009). A sun glint correction method for hyperspectral imagery containing areas with non-negligible water leaving NIR signal. *Remote Sens. Environ*, 2267-2274.
- Lillesand, T. M., Kiefer, R. W., & Chipman, J. W. (2015). *Remote Sensing and Image Interpretation, Seventh Edition*. New York: Jhon Wiley and Sons.
- Lindhal, U., McOhman, & Schelten, C. K. (2001). The 1997/1998 mass mortality of corals: Effects on fish communities on A Tanzanian Coral Reef. *Marine Pollution Bulletin*, 127-131.

- Lyzenga, D. R. (1978). Passive remote sensing techniques for mapping water depth and bottom features. *APPLIED OPTICS*, 379-383.
- Layzenga, D., Malinas, N., & Tanis, F. (2006). Multispectral Bathymetry Using a Simple Physically Based Algorithm. *IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING*, 2251-2259.
- Malone, B. P., Minasny, B., & McBretney, A. B. (2017). *Using R for Digital Soil Mapping*. Switzerland: Springer.
- Marfai, M. A. (2015). *Pemodelan Geografi*. Yogyakarta: Ombak.
- Marshal, W., Boshuizen, C., & Schingler, R. (2010). *Planet Labs*. Retrieved 2 14, 2020, from [https://en.wikipedia.org/wiki/Planet\\_Labs](https://en.wikipedia.org/wiki/Planet_Labs)
- Marta, S. (2019). *Planet Imagery Product Specification*. Planet Labs, Inc.
- Menteri Lingkungan Hidup. (2001). Peraturan Perundang-undangan Bidang pengelolaan Lingkungan Hidup dan Pengendalian Dampak Lingkungan, Keputusan Menteri Negara No.4 Tentang *Kriteria Baku Kerusakan terumbu Karang*. Jakarta: Kementerian Lingkungan Hidup.
- Muhsoni, F. F., & Efendy, M. (2016). KESESUAIAN EKOWISATA SELAM DI PULAU MANDANGIN KABUPATEN. *Semnas IKL UTM*. Universitas Trunojoyo Madura, Madura.
- Mumby, P. J., & Edwards, A. J. (2002). Mapping Marine Environment With IKONOS Imagery: Enhanced Spatial Resolution can Deliver Greater Thematic Accuracy. *Remote Sensing Environment*, 248-257.
- Mumby, P. J., Green, E. P., Edwards, A. J., & Clark, C. D. (2000). *Remote Sensing Handbook for Tropical Coastal Management*. Paris: UNESCO PUBLISHING.
- Murti, S. H., & Wicaksono, P. (2014). Analisis Saluran spektral yang Paling Berpengaruh dalam Identifikasi Kesehatan Terumbu Karang: Study Kasus Pulau Manjangan Besar dan Manjangan Kecil Kepulauan Karimunjawa. *Majalah Ilmiah Globe*, 117-124.
- Nadaoka, K., Tsuchiya, M., Kayanne, H., & Yamano, H. (2002). *Coral Reefs of Japan*. Japanese: Ministry of the Environment.
- Nybakken, J. W. (1992). *Biologi Laut Suatu Pendekatan Ekologi*. Cetakan Ke-2. Jakarta: PT Gramedia Pustaka Utama.
- Papu, A. (2011). Kondisi Tutupan Karang Pulau Kapoposang, Kabupaten Pangkajene Kepulauan, Provinsi Sulawesi Selatan. *Jurnal Ilmiah Sains*, 6-12.
- Philpot, W., & Ansty, T. (2011). Analytical Description of Pseudo-Infariant Features (PIFs). *IEEE*, 53-56.

- Pope, A., Scambos, T., Moussavi, M., Tedesco, M., Willis, M., Shean, D., & Grigsby, S. (2016). Estimating supraglacial lake depth in West Greenland using Landsat 8 and comparison with other multispectral methods. *Cryosphere*, 15-27.
- Rahman, A. (2010). Analisis Campuran Spektral Secara Linier (LSMA) Citra TERRA MODIS Untuk Kajian Estimasi Limpasan Permukaan (Studi Kasus Sub DAS Riam Kanan dan Sekitarnya). *Tesis*. Universitas Gadjah Mada, Yogyakarta.
- Roelfsema, C., Kovacs, E., Ortis, J. C., Wolff, N. H., Callaghan, D., Wettle, M., . . . Phinn, S. R. (2018). Coral Reef Habitat Mapping: A Combination of Object Based Image Analysis and Ecological Modelling. *Remote Sensing of Environment*, 27-41.
- Rositasari, R. (1998). Aspek Geologi Dan Sejarah Terbentuknya Terumbu Karang. *Oseana*, 1-9.
- Sanders, L. (2007). *Model in Spatial Analysis*. London: ISTE Ltd.
- Sari, G. L., Khasasiah, A., Utami, M. R., & Trihadiningrum, Y. (2021). Microplastic Contamination in the Aquatic Environment of Indonesia: A Comprehensive Review. *Journal of Ecological Engineering*, 127-140.
- Sinaga, S. G. (2018). Analisis Spektroskopik Untuk Pemetaan Kelimpahan Framinifera Bentik Berbasis Citra WorldView-2 Perairan Bangsring, Bayuwangi. *Tesis*. Universitas Gadjah Mada, Yogyakarta.
- Skidmore, A. (2002). *Environmental Modelling with GIS and Remote Sensing*. London dan New York: Taylor & Francis Group.
- Smadi, A. A., & Abu-Afouna, N. H. (2012). On Least Squares Estimation in a Simple Linear Regression Model with Periodically Correlated Errors: A Cautionary Note. *AUSTRIAN JOURNAL OF STATISTICS*, 211-226.
- Smith, R. B. (2012). *Introduction to Remote Sensing Environment*. Lincoln, Nebraska USA: MicRoImages.Inc.
- Smola, A., & Vishwanathan, S. V. (2008). *Introduction to Machine Learning*. United Kingdom: Cambridge University Press.
- Spitzer, D., & Dirks, R. (1987). Bottom influence on the reflectance of the sea. *Int. J. Remote Sens*, 279–290.
- Sugiyono. (2007). *Statistika Untuk Penelitian*. Bandung: ALFABETA.
- Suharsono. (2008). *Jenis-Jenis Karang di Indonesia*. Jakarta: LIPI Press.
- Suharsono. (2014). *Biodiversitas Biota Laut Indonesia*. Jakarta: LIPI Press.

- Susilo, B. (2016). *Pemodelan Spasial Dinamika Penggunaan Lahan di Daerah Perkotaan Yogyakarta. Disertasi*. Universitas Gadjah Mada, Yogyakarta.
- Sutanto. (1992). *Penginderaan Jauh, Jilid 1*. Yogyakarta: Gadjah Mada University Press.
- Svetnik, V., Liaw, A., Tong, C., Colberson, J. C., Sheridan, R. P., & Feuston, B. P. (2003). Random Forest: a Classification and Regression Tool for Compound Classification and QSAR Modeling. *J Chem Inf Comput Sci*, 1947-1958.
- Syarif, A. M., & Kumara, I. (2018). The Effect Of Minimum Noise Fraction On Multispectral Imagery Data For Vegetation Canopy Density Modelling. *Journal of Geomatics and Planning*, 251-258.
- Tassan, S. (1996). Modified Lyzenga's method for macroalgae detection in water with non-uniform composition. *Int. J. Remote Sens*, 1601–1607.
- Vincheh, Z. H., & Arfania, R. (2017). Lithological Mapping from OLI and ASTER Multispectral Data Using Matched Filtering and Spectral Analogues Techniques in the Pasab-e-Bala Area, Central Iran. *Journal of Geology*, 1494-1508.
- Vahtmäe, E., Paavel, B., & Kutser, T. (2020). How much benthic information can be retrieved with hyperspectral sensor from the optically complex coastal waters? *Journal of Applied Remote Sensing*, 1-21.
- Yang, M. D., Huang, K. S., Yang, Y. F., Lu, L. Y., Feng, Z. Y., & Tsai, H. P. (2016). Hyperspectral image classification using fast and adaptive bidimensional empirical mode decomposition with minimum noise fraction. *IEEE Geoscience and Remote Sensing Letters*, 1950-1954.
- Wahiddin, N., Siregar, V. P., Nababan, B., Jaya, I., & Wouthuyzen, S. (2014). Deteksi Perubahan Habitat Terumbu Karang Menggunakan Citra Landsat di Pulau Marotai Provinsi Maluku Utara. *Jurnal Ilmu dan Teknologi Kelautan Tropis*, 507-524.
- Wainer, G. A. (2009). *Discrete-Event Modeling and Simulation: A Practitioner's Approach*. New York: CRC Press.
- Wainwright, J., & Mulligan, M. (2004). *Environmental Modeling Finding Simplicity in Complexity*. New York: John Wiley & Sons.
- Wicaksono, P. (2010). Integrated Model of Water Column Correction Technique for Improving Satellite based Benthic Habitat Mapping: A Case Study on Part of Karimunjawa Island, Indonesia. *Tesis*. Universitas Gadjah Mada, Yogyakarta.
- Wicaksono, P. (2012). The Effect of *Sun glint* on Satellite-Based Benthic Habitat Identification. *Advanced Research in Computer Communication Engineering*, 364-370.



- Wicaksono, P. (2015). Pemetaan Lanskap Habitat Bentik Menggunakan Data Penginderaan Jauh Multispektral di Pulau Kemujan Kepulauan Karimunjawa. *Seminar Nasional Teknologi Terapan SV UGM 2015*, (pp. 57-63). Yogyakarta.
- Wicaksono, P., & Aryaguna, P. A. (2020). Analyses of Inter-Class Spectral Separability and Clasification Accuracy of Benthic Habitat Mapping Using Multispectral Image. *Journal Pre-proof*, 1-20.
- Widayani, P. (2016). Pemodelan Spasial Kerentanan Wilayah Terhadap penyakit Menular Terkait Lingkungan Berbasis Penginderaan Jauh (Kasus Malaria, Leptopirosis dan Tuberkulosis di Sebagian Wilayah PROIvinsi Jawa Tengah dan DIY). *Disertasi*. Universitas Gadjah Mada, Yogyakarta.
- Yusri. (2009). *Pengenalan Bentuk Pertumbuhan Terumbu Karang dan Struktur Rangka Kapur Karang*. Manado: Terangi Publication.
- Zainal, A., Maarof, M. A., Shamsuddin, S. M., & Abraham, A. (2008). Ensemble of One-Class Classifiers for Network Intrusion Detection System. *IEEE Xplore*. University Teknologi Malaysia, Johor.
- Zoffoli, M. L., Frouin, R., & Kampel, M. (2014). Water Column for Coral Reef Studies by Remote Sensing. *Sensors*, 16881-16931.
- <https://www.planet.com/company/>. (Download tanggal 5 Desember 2021)