



DAFTAR PUSTAKA

- Ackleson, S. G. (2003). Light in Shallow Waters: A Brief Research Review. *Limnology and Oceanography*, 48(1 II), 323–328. https://doi.org/10.4319/lo.2003.48.1_part_2.0323
- Akhir, K. (2021). *Intervensi Teknologi untuk Penguatan Implementasi Rencana Aksi Nasional Penanganan Sampah Laut 2018-2025 di Indonesia*. Keluarga Mahasiswa Teknik Kelautan (KMKL) ITB.
- Alif, S. Al, Karang, I. W. G. A. K., & Suteja, Y. (2017). Analisis Hubungan Kondisi Perairan dengan Terumbu Karang di Desa Pemuteran Buleleng Bali. *Journal of Marine and Aquatic Sciences*, 3(2), 142–153. <https://doi.org/10.24843/jmas.2017.v3.i02.142-153>
- Allen Coral Atlas. (2020a). *Geomorphic Map Classes, Allen Coral Atlas*. 2. <https://doi.org/10.1101/2020.09.10.292243>
- Allen Coral Atlas. (2020b). *Imagery, maps and monitoring of the world's tropical coral reefs*. <https://doi.org/doi.org/10.5281/zenodo.3833242>
- Ampou, E. E., Johan, O., Menkes, C. E., Niño, F., Birol, F., Ouillon, S., & Andrefouet, S. (2017). Coral Mortality Induced by the 2015-2016 El-Niño in Indonesia: The Effect of Rapid Sea Level Fall. *Biogeosciences*, 14(4), 817–826. <https://doi.org/10.5194/bg-14-817-2017>
- Andaris, A. R., Suryanto, A., & Muskananfola, M. R. (2015). Hubungan Faktor Fisik-Kimia Perairan Terhadap Tutupan Terumbu Karang Di Pulau Karimunjawa. *Journal Of Maquares (Management of Aquatic Resources)*, 4(3), 29–36.
- Arsyad, M., Eryati, R., & Ritonga, I. R. (2014). Analisis Penutupan Substrat Dasar Pada Ekosistem Terumbu Karang di Kawasan Taman Pesisir Kepulauan Derawan , Kecamatan Batu Putih , Kabupaten Berau - Kalimantan Timur. *Jurnal Ilmu Perikanan Tropis*, 20(1)(Oktober 2014), 34–43. <https://www.researchgate.net/publication/279182962>
- Astriani, H., Santoso, K. B., Arifatha, N., Prasetya, R., Utomo, S. D., Juniandari, V. C., & Kamal, M. (2018). Perbandingan Citra Landsat 8 Oli dan Sentinel 2-A untuk Estimasi Stok Karbon Kelapa Sawit (*Elaeis Guineensis Jacq*) di



- Wilayah PT.Perkebunan Nusantara VII Unit Rejosari, Natar, Kabupaten Lampung Selatan. *Seminar Nasional Geomatika*, 2(February), 21. <https://doi.org/10.24895/sng.2017.2-0.393>
- Babcock, R., & Smith, L. (2000). Effects of Sedimentation on Coral Settlement and Survivorship. *Marine Biology*, I(October), 1–4. <http://www.coremap.or.id/downloads/ICRS9th-BabcockEffectsofsedimentationcameraready-corrected.pdf>
- Baja, S. (2012). *Perencanaan Tata Guna Lahan dalam Pengembangan Wilayah: Pendekatan Spasial dan Aplikasinya*. Andi.
- Bani, M., Utama, P., Handoyo, G., Setiyono, H., & Haryo, D. (2020). *Analisa Sebaran Suhu Permukaan Laut Berdasarkan Citra Landsat-8 TIRS di Sekitar Outfall PLTU Tarahan Lampung Selatan*. 2(1), 8.
- BAPPEDA Kabupaten Berau. (2016). Bab II Gambaran Umum Kondisi Daerah. In *Perubahan Atas RPJMD Kabupaten Berau Tahun 2016-2021*.
- Bayhaqi, A., Iskandar, M. R., & Surinati, D. (2017). Pola Arus Permukaan dan Kondisi Fisika Perairan di Sekitar Pulau Selayar pada Musim Peralihan 1 dan Musim Timur. *Oseanologi Dan Limnologi Di Indonesia*, 2(1), 83. <https://doi.org/10.14203/oldi.2017.v2i1.71>
- BIG. (2021). *Data Pasang Surut Stasiun Tanjung Batu-Kaltim*. <http://inasealevelmonitoring.big.go.id/ipasut/data/residu/week/133/2021-11-08>
- BPS Kabupaten Berau. (2021). *Kabupaten Berau Dalam Angka 2021*.
- BPSPL Pontianak. (2019). *Laporan Penyediaan Data Series Keanekaragaman Hayati*.
- Burke, L., Reytar, K., Spalding, M., & Perry, A. (2012). *Menengok Kembali Terumbu Karang yang Terancam di Segitiga Terumbu Karang*.
- Buschman, F. A., Hoitink, A. J. F., De Jong, S. M., Hoekstra, P., Hidayat, H., & Sassi, M. G. (2012). Suspended sediment load in the tidal zone of an Indonesian river. *Hydrology and Earth System Sciences*, 16(11), 4191–4204. <https://doi.org/10.5194/hess-16-4191-2012>
- Chui, A. P. Y., & Ang, P. (2017). High Tolerance to Temperature and Salinity Change Should Enable Scleractinian Coral *Platygyra acuta* from Marginal

- Environments to Persist Under Future Climate Change. *PLoS ONE*, 12(6), 1–15. <https://doi.org/10.1371/journal.pone.0179423>
- Congalton, R. G., & Green, K. (2008). *Assessing the Accuracy of Remotely Sensed Data: Principles and Practices (2nd Edition)*. CRC Press, Taylor and Francis Group.
- Corvianawatie, C., & Abrar, M. (2018). Kesesuaian Kondisi Oseanografi Dalam Mendukung Ekosistem Terumbu Karang Di Pulau Pari. *Jurnal Kelautan Nasional*, 13(3), 155–161. <https://doi.org/10.15578/jkn.v13i3.6322>
- Dahl, A. L. (1981). *Coral reef monitoring handbook* (South Pacific Commission (ed.)). South Pacific Commission.
- Daniel, D. (2014). *Karakteristik Oseanografis dan Pengaruhnya terhadap Distribusi dan Tutupan Terumbu Karang di Wilayah Gugusan Pulau Pari, Kabupaten Kepulauan Seribu, DKI Jakarta*. Universitas Gadjah Mada.
- Daniel, D., & Santosa, L. W. (2014). Karakteristik Oseanografis dan Pengaruhnya terhadap Distribusi dan Tutupan Terumbu Karang di Wilayah Gugusan Pulau Pari, Kabupaten Kepulauan Seribu, DKI Jakarta. *Jurnal Bumi Indonesia*, 3(2).
- DeCarlo, T. M., Cohen, A. L., Wong, G. T. F., Davis, K. A., Lohmann, P., & Soong, K. (2017). Mass Coral Mortality Under Local Amplification of 2°C Ocean Warming. In *Scientific Reports* (Vol. 7). Nature Publishing Group. <https://doi.org/10.1038/srep44586>
- Dinas Kelautan dan Perikanan Provinsi Kalimantan Timur. (2020). *Laporan Akhir Penyediaan Data Series Keanekaragaman Hayati dan Sumberdaya Ikan*. <https://doi.org/10.1088/1751-8113/44/8/085201>
- Dinas Perikanan dan Kelautan. (2018). *Rencana Pengelolaan dan Zonasi (RPZ) Kawasan Konservasi Pesisir dan Pulau-pulau Kecil Kepulauan Derawan dan Perairan Sekitarnya (KKP3K KDPS) di Kabupaten Berau, Provinsi Kalimantan Timur 2018-2038*.
- Dinas Perikanan dan Kelautan. (2019). *Rencana Zonasi Wilayah Pesisir dan Pulau-pulau Kecil Provinsi Kalimantan Timur*.
- Efendi, S. S., Karmen, D., & Perdana, P. (2013). Efektivitas struktur penahan pasir dalam perubahan arus di perairan pantai Nusa Dua Bali. *Kolokium Hasil*

Litbang Sumber Daya Air, 1–10.

- English, S., Wilkinson, C., & Baker, V. (1997). Survey Manual for Tropical Marine Resources. 2nd Edition. In *Survey manual for tropical marine resources. Second edition*. Australian Institute of Marine Science.
- Erftemeijer, P. L. A., Riegl, B., Hoeksema, B. W., & Todd, P. A. (2012). Environmental impacts of dredging and other sediment disturbances on corals: A review. *Marine Pollution Bulletin*, 64(9), 1737–1765. <https://doi.org/10.1016/j.marpolbul.2012.05.008>
- Ermawan, R. W. (2008). *Kajian Sumberdaya Pantai untuk Kesesuaian Ekowisata di Pantai Prigi, Kabupaten Trenggalek, Provinsi Jawa Timur*.
- ESA. (2015). *SENTINEL-2 User Handbook* (Issue 1).
- Estradivari, Syarir, M., Susilo, N., Yusri, S., & Timotius, S. (2007). *Terumbu Karang Jakarta: Pengamatan Jangka Panjang Terumbu Karang Kepulauan Seribu (2004-2005)*.
- Fadilah, Suripin, & Sasongko, D. P. (2014). Menentukan Tipe Pasang Surut dan Muka Air Rencana Perairan Laut Kabupaten Bengkulu Tengah Menggunakan Metode Admiralty. *Maspari*, 6(1), 1–12.
- Ferreira, B. P., Costa, M. B. S. F., Coxey, M. S., Gaspar, A. L. B., Veleda, D., & Araujo, M. (2013). The effects of sea surface temperature anomalies on oceanic coral reef systems in the southwestern tropical Atlantic. *Coral Reefs*, 32(2), 441–454. <https://doi.org/10.1007/s00338-012-0992-y>
- Firdaus, M. L. (2017). *Oseanografi: Pendekatan dari Ilmu Kimia, Fisika, Biologi, dan Geologi* (Issue February).
- Genin, A., Yahel, G., Reidenbach, M. A., Monismith, S. G., & Koseff, J. R. (2002). Intense Benthic Grazing on Phytoplankton in Coral Reefs Revealed Using the Control Volume Approach. *Oceanography*, 15(2), 90–96. <https://doi.org/10.5670/oceanog.2002.25>
- Giyanto, Abrar, M., Hadi, T. A., Budiyanto, A., Hafizt, M., Salatalohy, A., & Iswari, M. Y. (2017). *Status Terumbu Karang di Indonesia 2017*.
- Giyanto, Abrar, M., Manuputty, A. E. W., Siringoringo, R. M., Tuti, Y., & Zulfianita, D. (2017). *Panduan Pemantauan Kesehatan Terumbu Karang* (2nd

ed.). COREMAP CTI LIPI.

- Gould, J., Sloyan, B., & Visbeck, M. (2013). In Situ Ocean Observations: A Brief History, Present Status, and Future Directions. *International Geophysics*, 103, 59–81. <https://doi.org/10.1016/B978-0-12-391851-2.00003-9>
- Green, E., Mumby, P., Edwards, A., & Clark, C. (2000). *Remote Sensing: Handbook for Tropical Coastal Management (United Nations Educational, Scientific and Cultural Organization (UNESCO))*.
- Greig, K., Kleine, D., & Roberts-Thomson, A. (2018). *Marine Ecosystems*. Coral Watch, University of Queensland. <https://doi.org/10.1016/B978-0-12-384719-5.00290-2>
- Guannel, G., Arkema, K., Ruggiero, P., & Verutes, G. (2016). The power of three: Coral reefs, seagrasses and mangroves protect coastal regions and increase their resilience. *PLoS ONE*, 11(7), 1–22. <https://doi.org/10.1371/journal.pone.0158094>
- Hadi, T. A., Abrar, M., Giyanto, Prayudha, B., Johan, O., Budiyanto, A., Dzumalek, A. R., Alifatri, L. O., Sulha, S., & Suharsono. (2020). *The Status Of Indonesian Coral Reefs 2019*. Puslit Oseanografi - LIPI.
- Hadi, T. A., Giyanto, Prayudha, B., Hafizt, M., Budiyanto, A., & Suharsono. (2018). *Terumbu Karang Indonesia 2018*. Pusat Penelitian Oseanografi - LIPI.
- Haerul. (2013). Analisis Keragaman dan Kondisi Terumbu Karang di Pulau Sarappolombo, Kab. Pangkep. In *Universitas Hasanuddin Makassar*. Hasanuddin.
- Hartmann, P. (2009). Effect of hydrodynamics on light utilization in large scale cultures of microalgae. *Sophia*, 269. <http://bib.rilk.com/5521/>
- Hill, J., & Wilkinson, C. (2004). Methods for ecological monitoring of coral reefs. In *Australian Institute of Marine Science, Townsville* (1st ed.). <https://doi.org/10.1017/CBO9781107415324.004>
- Jubaedah, I., & Anas, P. (2019). Dampak Pariwisata Bahari Terhadap Ekosistem Terumbu Karang di Perairan Nusa Penida, Bali. *Jurnal Penyuluhan Perikanan Dan Kelautan*, 13(1), 59–75. <https://doi.org/10.33378/jppik.v13i1.124>
- Kalangi, P. N. I., Mandagi, A., Masengi, K. W. A., Luasunaung, A., Pangalila, F.



- P. T., & Iwata, M. (2013). Sebaran suhu dan salinitas di Teluk Manado. *Perikanan Dan Kelautan Tropis*, 9(2), 71–75.
- Large, W. G., & Caron, J. M. (2015). Diurnal Cycling of Sea Surface Temperature, Salinity, and Current in the CESM Coupled Climate Model. *Journal of Geophysical Research: Oceans*, 120, 3711–3729. <https://doi.org/10.1002/2015JC011107>.Received
- Lazuardi, W., Wicaksono, P., & Marfai, M. A. (2021). Remote Sensing for Coral Reef and Seagrass Cover Mapping to Support Coastal Management of Small Islands. *IOP Conference Series: Earth and Environmental Science*, 686(1), 1–11. <https://doi.org/10.1088/1755-1315/686/1/012031>
- Li, F., & Tang, G. (2011). DEM-based Terrain Factor of Soil Erosion at Regional Scale and Soil Erosion Mapping. *Advances in Cartography and GIScience*, 2. <https://doi.org/https://doi.org/10.1007/978-3-642-19214-2>
- Mansula, J. G., & Romadhon, A. (2020). Analisis Kesesuaian Habitat Peneluran Penyu di Pantai Saba, Gianyar, Bali. *Juvenil: Jurnal Ilmiah Kelautan Dan Perikanan*, 1(1), 8–18. <https://doi.org/10.21107/juvenil.v1i1.6669>
- Moira, V. S., Luthfi, O. M., & Isdianto, A. (2020). Analysis of Relationship between Chemical Oceanography Conditions and Coral Reef Ecosystems in Damas Waters, Trenggalek, East Java. *Journal of Marine and Coastal Science*, 9(3), 113–126.
- Moustafa, M. Z., & Moustafa, M. S. (2020). Fringing Red Sea Corals Survival: Is It Tide or Local Wind? *Open Journal of Ecology*, 10(05), 225–242. <https://doi.org/10.4236/oje.2020.105015>
- Muhlis. (2011). Ekosistem Terumbu Karang dan Kondisi Oseanografi Perairan Kawasan Wisata Bahari Lombok. *Berkala Penelitian Hayati*, 16(2), 111–118. <https://doi.org/10.23869/bphjbr.16.2.20112>
- Mujiono, D. I. K. (2019). Potensi Bahari Pulau Derawan Menuju Destinasi Wisata Kompetitif. *Jurnal Dinamika Global*, 3(02), 55–87. <https://doi.org/10.36859/jdg.v3i02.76>
- Musrifin. (2012). Analisis dan Tipe Pasang Surut Perairan Pulau Jemur Riau. *Berkala Perikanan Terubuk*, 40(1), 101–108.



- Mutaqin, B. (2020). Spatial Analysis and Geomorphic Characteristics of Coral Reefs on the Eastern Part of Lombok, Indonesia. *Geographia Technica*, 15(2), 202–211. <https://doi.org/10.21163/GT>
- Mutaqin, B. W., Lavigne, F., Sudrajat, Y., Handayani, L., Lahitte, P., Virmoux, C., Hiden, Hadmoko, D. S., Komorowski, J.-C., Hananto, N. D., Wassmer, P., Hartono, & Boillot-Airaksinen, K. (2019). Landscape Evolution on the Eastern Part of Lombok (Indonesia) Related to the 1257 CE Eruption of the Samalas Volcano. *Geomorphology*, 327, 338–350. <https://doi.org/10.1016/j.geomorph.2018.11.010>
- Naiu, C. A., Sahami, F. M., & Hamzah, S. N. (2014). Kondisi Terumbu Karang di Perairan Desa Bintalahe Kecamatan Kabila Bone, Kabupaten Bone Bolango, Provinsi Gorontalo. *Jurnal Ilmiah Perikanan Dan Kelautan*, 2(1), 33–39.
- NOAA. (2011). *Ocean Currents. Ocean and Coasts*. <https://www.noaa.gov/education/resource-collections/ocean-coasts/ocean-currents>
- Noviana, L., Arifin, H. S., Adrianto, L., & Kholil. (2019). Study of Coral Reef Ecosystem in Taman Nasional Kepulauan Seribu. *Jurnal Pengelolaan Sumberdaya Alam Dan Lingkungan (Journal of Natural Resources and Environmental Management)*, 9(2), 352–365. <https://doi.org/10.29244/jpsl.9.2.352-365>
- Nurhidayat, I., Rustam, & Rauf, A. (2019). Kondisi Terumbu Karang di Perairan Liukang Tangaya Kabupaten Pangkajene dan Kepulauan. *Pendidikan Teknologi Pertanian*, 5(1), 41–48.
- Ompi, B. N., Rembet, U. N. W. J., & Rondonuwu, A. B. (2019). Kondisi Terumbu Karang Pulau Hogow dan Dakokayu Kabupaten Minahasa Tenggara. *Jurnal Ilmiah Platax*, 7(1), 186–192.
- Patty, S. I., Huwae, R., & Kainama, F. (2020). *Variasi Musiman Suhu, Salinitas dan Kekeruhan Air Laut di Perairan Selat Lembeh, Sulawesi Utara (Seasonal Variations of Temperature, Salinity and Turbidity of the Lembeh Strait's waters, North Sulawesi)*. 8(1), 110–117.
- Prakoso, F. D. (2016). *Studi Pola Sebaran Salinitas, Temperatur, dan Arus*

Perairan *Estuari* *Sungai* *Wonokromo* *Surabaya.*

<http://repository.its.ac.id/51333/1/4311100106-Undergraduate Thesis.pdf>

Pramono, G. H. (2008). Akurasi Metode IDW dan Kriging untuk Interpolasi Sebaran Sedimen Tersuspensi. *Forum Geografi*, 22(1), 97–110.
<https://doi.org/10.23917/forgeo.v22i1.4929>

Pratama, D. R., Yusuf, M., & Helmi, M. (2016). Kajian Kondisi dan Sebaran Kualitas Air di Perairan Selatan Kabupaten Sampang, Provinsi Jawa Timur. *Oseanografi*, 5(4), 479–488.

Praveena, S. M., Abdullah, M. H., Bidin, K., & Aris, A. Z. (2012). Modeling of Water Balance Components in a Small Island via a Numerical Model Application. *Journal of Coastal Research*, 28(1), 202–209.

Riani, E. (2012). *Climate Change and Aquatic Life (Impact on Bioaccumulation of Hazardous and Toxic Materials and Reproductive) (in Bahasa Indonesia)*.

Sadili, D., Sarmintohadi, Ramli, I., Rasdiana, H., Sari, R. P., Miasto, Y., Prabowo, Monitja, M., Tery, N., & Annisa, S. (2015). *Pedoman Rehabilitasi Terumbu Karang* (pp. 1–88). Kementerian Kelautan dan Perikanan.

Salmin. (2005). Oksigen Terlarut (DO) dan Kebutuhan Oksigen Biologi (BOD) sebagai Salah Satu Indikator untuk Menentukan Kualitas Perairan. *Oseana*, 30(3), 21–26.

Sambah, A. B., Affandy, D., Luthfi, O. M., & Efani, A. (2019). *Identification and Analysis of Potential Coastal Areas As Basis for Mapping Conservation Areas in the Coastal District of Banyuwangi, East Java*. 5(2), 61–69.

Serco Italia SPA. (2019). *Sen2Coral Toolbox for Coral Reef Monitoring, Great Barrier Reef*.

Setiawan, F., Muttaqin, A., Tarigan, S. A., Muhibdin, Hotmariyah, Sabil, A., & Pinkan, J. (2017). Pemutihan Karang Akibat Pemanasan Global Tahun 2016 Terhadap Ekosistem Terumbu Karang: Studi Kasus di TWP Gili Matra (Gili Air, Gili Meno, dan Gili Trawangan) Provinsi NTB. *Journal of Fisheries and Marine Science*, 1(2), 39–54.

Setyawan, I. E., Siregar, V. P., Pramono, G. H., & Yuwono, D. M. (2014). Pemetaan Profil Habitat Dasar Perairan Dangkal Berdasarkan Bentuk Topografi : Studi



- Kasus Pulau Panggang, Kepulauan Seribu Jakarta. *Majalah Ilmiah Globe*, 16(2), 125–132.
- Suharsono. (2008). *Jenis-Jenis Karang Indonesia*. LIPI Press.
- Supriharyono. (2000). *Pengelolaan ekosistem terumbu karang*. Djambatan.
- The Nature Conservancy. (2003). *Report on a Rapid Ecological Assessment of the Derawan Islands, Berau District, East Kalimantan, Indonesia, October 2003* (Issue February 2005).
- The Ocean Portal Team. (2018). *Corals and Coral Reefs*. Ocean Find Your Blue. <https://ocean.si.edu/ocean-life/invertebrates/corals-and-coral-reefs>
- Tomascik, T., A. J. M., A. N., & M. K. M. (1997). Chapter Twenty-One: Marine and Coastal Biodiversity. In *In The Ecology of the Indonesia Seas, Part II* (pp. 1043–1166). Periplus Editions (HK) Ltd.
- Triatmodjo, B. (1999). *Teknik Pantai*. Beta Offset.
- UNEP-WCMC, WorldFish Centre, WRI, & TNC. (2018). *Global distribution of warm-water coral reefs, compiled from multiple sources including the Millennium Coral Reef Mapping Project. Version 4.0. Includes contributions from IMaRS-USF and IRD (2005), IMaRS-USF (2005) and Spalding et al. (2001)*. Global Distribution of Coral Reefs. <https://doi.org/https://doi.org/10.34892/t2wk-5t34>
- United Nations Framework Convention on Climate Change (UNFCCC). (2006). *Climate Change: Impacts, Vulnerabilities, and Adaption in Developing Countries*. <https://doi.org/10.1002/2017EF000539>
- Wibianto, S. A. (2016). *Studi Pengaruh Angin Terhadap Pembentukan Arah dan Kecepatan Arus Permukaan di Wilayah Utara dan Selatan Jawa Timur*.
- Wiryawan, B. (2005). *Ringkasan Eksekutif: Menuju Kawasan Konservasi Laut Berau Kalimantan Timur Status Sumberdaya Pesisir dan Proses Pengembangan KKL*.
- Yvonne, Ramli, I., Dewanto, H. Y., Adi, N. S., Yudiarso, P., Abrar, M., Giyanto, Prabuning, D., Putra, M. I. H., Siagian, A., Ardiwidjaya, R., & Subhan, B. (2016). *Panduan Pemantauan Pemutihan Karang* (Issue October).
- Zamani, N. P., & Madduppa, H. H. (2011). A Standard Criteria for Assesing the



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Health of Coral Reefs : Implication for Management and Conservation.

Journal of Indonesia Coral Reefs, 1(2), 137–146.

Zhu, X. (2016). *GIS for Environmental Applications: A Practical Approach*.

<https://doi.org/https://doi.org/10.4324/9780203383124>

Zimmerman, D., Pavlik, C., Ruggles, A., & Armstrong, M. P. (1999). An

Experimental Comparison of Ordinary and Universal Kriging and Inverse

Distance Weighting. *Mathematical Geology*, 31(4), 375–390.

<https://doi.org/10.1023/A:1007586507433>