

REFERENCES

- Aban, S. M., Argente, F. A. T., Raguindin, R. S., Garcia, A. C., Ibarra, C. E. & De Vera, R.B., 2017. Length-Weight Relationships of the Asian Green Mussel, *Perna viridis* (Linnaeus 1758)(Bivalvia: Mytilidae) Population in Bolinao Bay, Pangasinan, Northern Philippines. *PSU Journal of Natural and Allied Sciences*, 1(1), pp. 1-6.
- Akbar, P. S. & Usman, 2008. *Pengantar Statistika*. Jakarta: Bumi Aksara.
- Alongi, D. M., 2018. Impact of Global Change on Nutrient Dynamics. *Forests*, 9(596), pp. 1-13.
- Amriani, H., Hendarto, B. & Hadiyanto, A., 2011. Biokumulasi Logam Berat Timbal (Pb) dan Seng (Zn) pada Kerang Darah (*Anadara granosa* L.) dan Kerang Bakau (*Polymesoda bengalensis* L.) di Perairan Teluk Kendari. *Skripsi*. Semarang: Universitas Diponegoro.
- APHA, AWWA & WEF, 1992. *Standard Methods For The Examination of Water and Wastewater*, New York: American Public Health Association, American Water Works Association, and Water Environment Federation.
- Apriani, T., 2013. Kelimpahan *Polymesoda erosa* pada Tipe Habitat Mangrove yang Berbeda di Segara Anakan Cilacap. *Skripsi*. Purwokerto: Fakultas Biologi.
- Ardli, E. R. & Wolff, M., 2008. Land Use and Land Cover Change Affecting Habitat Distribution in the Segara Anakan Lagoon, Java, Indonesia Over the Past 25 Years (1978 – 2008). *Asian Journal of Water, Environment and Pollution*, 5, pp. 59-67.
- Ardli, E. R., Yani, E. & Widyastuti, A., 2010. *Distribusi Spasial dan Dinamika Populasi Polymesoda erosa di Ekosistem Mangrove Segara Anakan Cilacap, sebagai Acuan Restocking dan Konservasi*. Purwokerto, Fakultas Biologi. Universitas Jenderal Soedirman.
- Argente, F. A. T., 2016. Bivalve Superpower: The Global Invasion of Corbiculid Clams. *Annual Research & Review in Biology*, 10(3), pp. 1-10.
- Argente, F. A. T., Cesar, S. A. & Dy, D. T., 2014. High Turbidity Affects Filtration Rate and Pseudofaeces Production of the Mud Clam, *Polymesoda erosa* (Solander 1786). *Biotropia*, 21(2), pp. 71-81.
- Asadi, M. A., Iranawati, F. & Andini, A. W., 2018. Ecology of Bivalves in the Intertidal Area of Gili Ketapang Island, East Java, Indonesia. *AACL Bioflux*, 11(1), pp. 55-65.

- Aslan, A., Rahman, A. F. & Robeson, S. M., 2018. Investigating the Use of Alos Prism Data in Detecting Mangrove Succession. *Ecological Indicators*, 87(2018), pp. 136–143.
- Aswani, S., Flores, C. F. & Broitman, B. R., 2015. Human Harvesting Impacts on Managed Areas: Ecological Effects of Socially-Compatible Shellfish Reserves. *Rev Fish Biol Fisheries*, 2(5), pp. 217 – 230.
- Atikasari, Y., 2011. Distribusi Vegetasi Mangrove Pionir Segara Anakan Cilacap. *Skripsi*.Purwokerto: Fakultas Biologi.
- Azizah, M., 2011. Korelasi antara Struktur dan Komposisi Vegetasi Mangrove, Kelimpahan *Polymesoda erosa* dan Faktor Lingkungannya di Segara Anakan Cilacap. *Skripsi*.Purwokerto: Fakultas Biologi.
- Badan Pengelola Kawasan Segara Anakan[BPKSA], 2007. *Monitoring Kawasan Segara Anakan Cilacap*. Cilacap: Pemerintah Kabupaten Cilacap.
- Banerjee, K., Bal, G. & Mitra, A., 2018. How Soil Texture Affects the Organic Carbon Load in the Mangrove Ecosystem? A Case Study from Bhitarkanika, Odisha. *Environmental Pollution, Water Science and Technology Library*, 7, pp. 329- 341.
- Bengen, D.G., 2009. *Pentingnya Sumberdaya Moluska dalam Mewujudkan Ketahanan Pangan dan Penghela Ekonomi Perikanan*. Bogor, Institut Pertanian Bogor, pp. 6-13.
- Bernardino, F. A., Gomesa, L. E., Hadlich, H. L., Andrades, R. &Correa, L. B., 2018. Mangrove Clearing Impacts on Macrofaunal Assemblages and Benthic Food. *Marine Pollution Bulletin*, 126(2018), pp. 228-235.
- Brower, Z. A., Zar, J. & Ende, C. A., 1990. *Field and Laboratory Methods for General Ecology*. Iowa: Brown Company.
- Buckland, S. T., Borchers, D. L., Johnston, A., Henrys, P. A. &Marques, T. A., 2007. Line Transect Methods for Plant Surveys. *Biometrics*, 6(3), pp. 989 - 998.
- Clarke, K. R. & Ainsworth, M., 1993. A Method of Linking Multivariate Community Structure to Environmental Variables. *Marine Ecology Progress Series*, pp. 205-209.
- Dewi, A. S., 2014. Studi Populasi Kerang Totok *Polymesoda erosa* pada Area Restorasi Mangrove di Segara Anakan Cilacap. *Skripsi*.Purwokerto: Fakultas Biologi.
- Dewiyanti, 2004. *Struktur Komunitas Molusca (Gastropoda dan Bivalvia) serta Asosiasinya Pada Ekosistem Mangrove Di Kawasan Pantai Ulee-Lheue, Banda Aceh, NAD*. Bogor: FPIK, IPB.

- Dwiono, S. A. P., 2003. Pengenalan Kerang Mangrove *Geloina erosa* dan *Geloina expansa*. *Balitbang Sumberdaya Laut, Pusat Penelitian Oseanografi-LIPI, Oceana*, 18(2), pp. 31-38.
- Ellison, J. C. & Zouh, I., 2012. Vulnerability to Climate Change of Mangroves: Assessment from Cameroon. *Central Africa Biology*, 1, pp. 617 - 638.
- Fachrul, M. F., 2007. *Metode Sampling Bioekologi*. Jakarta, Indonesia: Penerbit Bumi Aksara.
- George, G., Krisnan, P., Mini, K. G. & Salim, S. S., 2018. Structure and Regeneration Status of Mangrove Patches Along the Estuarine and Coastal Stretches of Kerala, India. *J. For. Res*, pp. 1-12.
- Gimin, R., Mohan, R., Thinh, L. V. & Griffiths, A.D., 2004. The Relationship of Shell Dimensions and Shell Volume to Live Weight and Soft Tissue Weight in the Mangrove Clam, *Polymesoda erosa* (Solander, 1786) from Northern Australia. *NAGAWorld Fish Center Quarterly*, 27(3-4), pp. 32-35.
- Hadisusanto, S., Puniawati, N., Poedjirahajoe, E. & Handayani, N. S. N., 2018. *Plastisitas Fenotip Gastropoda Mangrove Taman Nasional Alas Purwo: Morphometri Cangkang dan Operculum*. Yogyakarta, Fakultas Biologi, Universitas Gadjah Mada Yogyakarta, pp. 73-83.
- Hartati, R., Widowati, I. & Ristiadi, Y., 2005. Histologi Gonad Kerang Totok dari Laguna Segara Anakan, Cilacap. *Jurnal Ilmu Kelautan*, 10(3), pp. 119 - 125.
- Heriyani, M., Subiyanto, & Suprpto, D., 2015. The Kind of Soil Texture and Organic Matter on Freshwater Clam Habitat (Family: Unionidae) in Rawa Pening. *Diponegoro Journal of Maquares*, 4(1), pp. 64-73.
- Hilmi, E., Sahri, A. S., Febryanni, L., Novaliani, R., Amir, S. A. & Syakti, A. D., 2015. Struktur Komunitas, Zonasi dan Keanekaragaman Hayati Vegetasi Mangrove di Segara Anakan Cilacap. *Omni-Akuatika*, 11(2), pp. 20-32.
- Hutabarat, S. & Evans, S. M., 1985. *Pengantar Oseanografi*. Jakarta: UI Press.
- Ilmiah, H. H., Nuringtyas, T. R. & Nugroho, L. H., 2018. Accumulation of Potential Photo-Protective Compound Groups in Mangrove (*Sonneratia caseolaris* (L.) Engler.) Leaves. *Pharmacogn Journal*, 10(3), pp. 576-580.
- Kalangin, P. L., Mandagi, A., Masengi, K. W. A., Luasunaung, A., Pangalila, F. P. & Iwata, M., 2013. Distribution of Temperature and Salinity in Manado Bay. *Jurnal Perikanan dan Kelautan Tropis*, pp. 71-75.
- Kantharajan, G. Pandey, P. K., Krishan, P., Ragavan, P., Jeevamani, J. J. J., Purvaja, R. & Ramesh, R., 2018. Vegetative Structure and Species Composition of

- Mangroves Along the Mumbai Coast Maharashtra, India. *Regional Studies in Marine Science*, 19, pp. 1-8.
- Kelana, P. P., Setyobudi, I. & Kristanti, M., 2015. Kondisi Habitat *Polymesoda erosa* pada Kawasan Ekosistem Mangrove Cagar Alam Leuweng Sancang. *Jurnal Akuatik*, 6(2), pp. 107 - 117.
- Kisman, M. D., Ramadhan, A. & Djirimu, M., 2016. Jenis Jenis dan Keanekaragaman Bivalvia di Perairan Laut Pulau Maputi Kecamatan Sojol Kabupaten Donggala dan Pemanfaatannya sebagai Media pembelajaran Biologi. *e-Jipbiol*, 4(1), pp. 1-14
- Krisnawati, Y., Arthana, I. W. & Dewi, A. P. K., 2018. Variasi Morphologi dan Kelimpahan Kepiting *Uca* spp. di Kawasan Mangrove, Tuban-Bali. *Journal of Marine and Aquatic Sciences*, 4(2), pp. 236-243.
- Kustanti, A., 2011. *Manajemen Hutan Mangrove*. Bogor: Kampus IPB Taman Kencana.
- Listyaningsih, D. D., Yulianda, F. & Ardli, E. R., 2011. Assessment of Mangrove Ecosystem Degradation to the Population of *Polymesoda erosa* in Segara Anakan, Cilacap. *Forum Geografi*, 27(1), pp. 1-10.
- Ludwig, J. A. & Reynolds, J. F., 1984. *Statistical Ecology*. Canada: John Wiley & Sons.
- Mayor, T., Simbala, H. E. & Koneri, R., 2017. The Biodiversity of Mangrove in the Mansuar Island Raja Ampat District. *Bioslogos*, 7(2), pp. 41-48.
- Muller-Dumbois, D. & Ellenberg, H., 1974. *Aims and Methods of Vegetation Ecology*. New York: John Wiley and Sons.
- Murtiono, U. H., Tjakrawarsa & Pahlana, 2012. *Kajian Peran Dominasi Jenis Mangrove dalam Penjeratan Sedimen Terlarut di Segara Anakan Cilacap*, Surakarta: BPTKPDAS.
- Nehru, P. & Balasubramanian, P., 2018. Mangrove Species Diversity and Composition in the Successional Habitats of Nicobar Islands, India: A Post-tsunami and Subsidence Scenario. *Forest Ecology and Management*, 427(2018), pp. 70-77.
- Noor, T., Batool, N., Mazhar, R. & Ilyas, N., 2015. Effects of Siltation, Temperature and Salinity on Mangrove. *Europe Academic Research*, 2(11), pp. 72-79.
- Nurrohman, E., Rahardjanto, A. & Wahyuni, S., 2018. Studi Hubungan Keanekaragaman Makrofauna Tanah dengan Kandungan C-Organik dan Organophosphat Tanah di Perkebunan Cokelat (*Theobroma cacao* L.) Kalibaru Banyuwangi. *Bioeksperimen*, 4(1), pp. 1-10.

- Nuryanto, A. & Susanto, A. H., 2010. Genetic Variability of *Polymesoda erosa* Population in the Segara Anakan Cilacap. *Journal of Biotropia*, Volume 17, pp. 22-30.
- Palmer, S. & Withmarsh, M., 2018. Mangrove Vegetation as a Protective Solution for Coastal Protections. *AIAA Journals*, pp. 1-4.
- Poutiers, J. M., Carpenter, K. E. & Niem, V. H., 1988. *The Living Marine Resources of Bivalves The Western Central Pacific*, Roma: Seaweed, Corals, Bivalves and Gastropods.
- Pramudji, 2007. *Penelitian Biota yang Berasosiasi Pada Ekosistem Mangrove dan Estuaria di Pesisir Delta Mahakam Kalimantan Timur*, Jakarta: Pusat Penelitian Oseanografi.
- Rahim, A. A., Idris, M. H., Kamal, A. H. M., Wong, S. K. & Arsad, A., 2012. Analysis of Condition Index in *Polymesoda expansa* (Mousson, 1849). *Pakistan Journal of Biological Sciences*, 15(13), pp. 629 - 634.
- Rahmawati, P., 2014. Distribusi Spasial dan Temporal Kerang Totok *Polymesoda erosa* di Kawasan Segara Anakan Cilacap. *Skripsi*. Purwokerto: Fakultas Biologi.
- Ransangan, J. & Soon, T. K., 2018. Occurrence and Distribution of Marsh Clam, *Polymesoda* spp. in Marudu Bay, Sabah, Malaysia. *Open Journal of Marine Science*, 8, pp. 314-322.
- Rebolledo, A. P. & Collin, R., 2018. Thermal Tolerance of the Zoea I Stage of Four Neotropical crab species (Crustacea: Decapoda). *Zoologia (Curitiba)*, 35, pp. 1-5.
- Riduwan & Kuncoro, E. A., 2007. *Cara Menggunakan dan Memaknai Analisis Jalur (Path Analysis)*. Cetakan pertama penyunt. Bandung: Alfabeta.
- Rukminasari, N., Nadiarti & Awaluddin, K., 2014. The Effect of Acidic Level of Media on Calcium Concentration and Growth of *Halimeda* sp. *Torani (Jurnal Ilmu Kelautan dan Perikanan)*, 24(1), pp. 28-33.
- Ruslisan, R., Kamal, M. & Sidik, F., 2018. Monitoring the Restored Mangrove Condition at Perancak Estuary, Jembrana, Bali, Indonesia from 2001 to 2015. *Earth and Environmental Science*, 123(2018), pp. 1-12.
- Sankar, R. K., Krishnan, P., Roy, D. S., Angel, J. R. J., Bharathi, M. P. G., Kumar, L. K., Ragavan, P. & Kaliyamoorthy, M., 2017. Structural Complexity and Tree Species Composition of Mangrove Forests of the Andaman Islands, India. *J. Coast Conserv*, pp. 1-18.

- Saputra, O., Ihsan, Y. N., Sari, L. P. & Mulyani, Y., 2016. Sedimentasi dan Sebaran Makrozoobentos di Kawasan Laguna Segara Anakan Nusakambangan, Cilacap. *Jurnal Perikanan dan Kelautan*, 8(1), pp. 26-33.
- Saputra, A., 2018. Bioakumulasi Logam Berat Timbal (Pb) Pada Kerang Kepah (*Polymesoda erosa*) di Perairan Estuari Sungai Galacangange, Kecamatan Suppa, Kabupaten Pinrang, Provinsi Sulawesi Selatan. *Skripsi*. Makasar: Fakultas Ilmu Kelautan dan Perikanan, Universitas Hasanuddin.
- Saputra, S. W., 2003. Kondisi Perairan Segara Anakan Ditinjau dari Indikator Biotik. Dalam: *Makalah Pengantar Falsafah Sains*. Bogor: Program Pasca Sarjana Institut Pertanian Bogor, pp. 9.
- Sarong, M. A. Daud, A. M., Wardiah, W., Dewiyanti, I. & Muchlisin, Z. A., 2015. Gonadal Histological Characteristics of Mud Clam (*Geloina erosa*) in the Estuary of Reuleung River, Aceh Besar District, Indonesia. *AACL Bioflux*, 8(5), pp. 706 - 713.
- Satyanarayana, B., Muslim, A. M., Horsali, N. A. I., Zauki, N. A. M., Otero, V., Nadzri, M. I., Ibrahim, S., Husain, M. L. & Geubass, F. D., 2018. Status of the Undisturbed Mangroves at Brunei Bay, East Malaysia: A Preliminary Assessment Based On Remote Sensing and Ground-Truth Observations. *Peer J.*, pp. 1-22.
- Schuster, M. J. & Wratt, P. D., 2018. Using Revegetation to Suppress Invasive Plants in Grasslands and Forests. *Journal of Applied Ecology*, 55(5), pp. 2362–2373.
- Simanjuntak, M., 2007. Oksigen Terlarut dan Apparent Oxygen Utilization di Perairan Teluk Klabat, Pulau Bangka. *Ilmu Kelautan*, 12(2), pp. 59-66.
- Sjahrir, K. & Hutahean, A. A., 2017. *Sustainable Coastal-Marine Livelihoods in Indonesia: A Mangrove Management Case Study*. Columbia University, ICSD.
- Smith, W. D., 1964. A Preliminary Vegetation Map of Malaya with Descriptions of the Vegetation Type. *J. Trop. Geogr.*, 18, pp. 200-213.
- Sudjadi, 1988. *Metode Pemisahan*. Yogyakarta: Fakultas Farmasi, Universitas Gadjah Mada.
- Supriatna, S., Purwadhi, S. H. & Purwanto, A. D., 2017. *The Spatial Dynamics Model of Mangrove Forest Changes in Segara Anakan, Cilacap*. Depok, Indonesia, AIP Publishing.
- Suryono, C. A. & Irwani, A., 2006. Struktur Populasi dan Distribusi Kerang Totok *Geloina* sp. (*Bivalvia* : *Corbiculidae*) di Segara Anakan Cilacap Ditinjau dari Aspek Degradasi Salinitas. *Ilmu Kelautan*, 11(1), pp. 54–58.

- Suswati, J. F., 2018. Kelimpahan dan Pola Distribusi Kerang Totok *Geloina erosa* pada Kawasan Mangrove Segara Anakan. *Skripsi*. Purwokerto: Fakultas Biologi.
- Suthers, I. M. & Rissik, D., 2009. *A Guide to Their Ecology and Monitoring for Water Quality*. Australia: CSIRO.
- Tamsar, F., 2013. Studi Laju Pertumbuhan dan Tingkat Eksploitasi Kerang Kalandue (*Polymesoda erosa*) pada Daerah Hutan Mangrove di Teluk Kendari. *Jurnal Mina Laut Indonesia*, 2(6), pp. 14- 25.
- Tis'in, M., 2008. *Tipologi Mangrove Dan Keterkaitannya dengan Populasi Gastropoda Littorina neritoides (Linne, 1758) Di Kepulauan Tanakeke, Kabupaten Takalar, Sulawesi Selatan*, Bogor: Sekolah Pasca Sarjana, Institut Pertanian Bogor.
- Ulfa, M., Julyantoro, P. G. S. & Sari, A. H. W., 2018. Keterkaitan Komunitas Makrozoobentos dengan Kualitas Air dan Substrat di Ekosistem Mangrove Taman Hutan Raya Ngurah Rai Bali. *Journal of Marine and Aquatic Sciences*, 4(2), pp. 179-190.
- Widowati, I., Suprijanto, J., Hartati, R. & Dwiono, S. A. P., 2005. *Hubungan Dimensi Cangkang dengan Berat Kerang Totok Polymesoda erosa (Bivalvia: Corbiculidae) dari Segara Anakan Cilacap*. Purwokerto, Fakultas Biologi Program Sarjana Perikanan dan Kelautan. Universitas Jenderal Soedirman, pp. 48 - 50.
- Widyastuti, A., Yani, E., Kolya, E. & Rochmatino, 2018. Diversity of Mangrove Vegetation and Carbon Sink Estimation of Segara Anakan Mangrove Forest, Cilacap, Central Java, Indonesia. *Biodiversitas*, 19(1), pp. 246 - 252.
- Wijayanti, D. A., Hertika, A. M. S. & Yanuwad, B., 2018. An Analysis on Hemocytes Profile in Kijing Taiwan (*Anodonta woodiana*) and Water Quality in Freshwater Aquaculture Ponds. *J.Exp. Life Sci*, 8(1), pp. 7-14.
- Xiong, B., Mahoney, E., Lo, J. F., Chou, C. Selvaganapathy, R. & Fang, Q., 2018. (Invited) A Frequency Domain Optofluidics Dissolved Oxygen Sensor. *Journal of Electrochemical Society*, 2(1), pp. 24-37.
- Yahya, N., Idris, I., Rosli, N. S., & Bachok, Z., Population Dynamic of Mangrove Clam, *Geloina expansa* (Mousson, 1849) (Mollusca, Bivalvia) In A Malaysian Mangrove System of South China Sea. *Journal of Sustainability Science and Management*, 13(5), pp. 203-216.
- Yuniarti, Ihsan, Y. N., Asdak, C., Dhahiyat, Y., Kamarudin, M. K. A., Gasim, M. B. Yusra, I. A. F. & Juahir, H., 2018. Impact Sedimentation to Community

Structure Macrozoobenthos in Segera Anakan Lagoon. *Journal of Fundamental and Applied Sciences*, 10(1S), pp. 565 - 579.

Zakaria, M. & Rajpar, M. N., 2015. Assessing the Fauna Diversity of Marudu Bay Mangrove Forest, Sabah, Malaysia, for Future Conservation. *Diversity*, 7(2), pp. 137 - 148.