

DAFTAR PUSTAKA

- Aalimahmoudi, M., A. Reyshahri. S.S. Bavarsad. and M. Maniat. 2016. Effects of feeding frequency on growth, feed conversion ratio, survival rate and water quality of white leg shrimp (*Litopenaeus vannamei*, Boone, 1931). *Int. Jour of fish& aqua studies*(3): 293-297.
- Afsholnissa, S., Hernawan, E., Lastini, T. 2019. Land cover change and land use suitability analyses of coastal area in Bantul District, Yogyakarta, Indonesia. *Biodiversitas* 20(5):1475-1481.
- Ahmed, S. 2018. Shrimp farming at the interface of land use change and marginalization of local farmers: critical insights from southwest coastal Bangladesh. *Journal of Land Use Science* 13(3):251-258.
- Ahmed, N. & Thompson, S. 2017. Sustainable intensification of aquaculture. *INFOFISH International* 3: 35-37.
- Alloul, A., Lucenti, P., Vlaeminck, S., Wille, M., Bossier, P., Stappen, G.V. 2021. Purple bacteria as added-value protein ingredient in shrimp feed: *Penaeus vannamei* growth performance, and tolerance against *Vibrio* and ammonia stress. *Journal of Aquaculture* 530:1-8.
- Avnimelech, Y., V.C.J. Verdegem, M. Kurup & P. Keshavanath, 2008. Sustainable land-based aquaculture: Rational utilization of water, land and feed resources. *Mediterranean Aquaculture Journal* 1 (1): 45-55.
- Beltrame, E., C. Bonetti & J. Bonetti, 2006. Pre-selection of areas for shrimp culture in a subtropical Brazilian lagoon based on multicriteria hydrological evaluation. *Journal of Coastal Research* 39: 1838-1842.
- Bosma, R.H. & M.C.J. Verdegem, 2011. Sustainable aquaculture in ponds: Principles, practices and limits. *Livestock Science* 139: 58-68.
- BSN. 2006. Produksi udang vaname (*Litopenaeus vannamei*) di tambak dengan teknologi intensif. SNI 01-7246-2006. Badan Standarisasi Nasional. Jakarta.
- BSN. 2014. Produksi udang vaname (*Litopenaeus vannamei*, Boone 1931) intensif di tambak lining. SNI 8008:2014. Badan Standarisasi Nasional. Jakarta.
- Beatus M. L., Uca S., dan Amal. 2017. Perubahan penggunaan lahan di Kecamatan Sirimau Kota Ambon. *Jurnal Geocelebes*. 1(2): 43–52.
- Benzie, J.A.H., 2009. Use and exchange of genetic resources of penaeid shrimps for food and aquaculture. *Reviews in Aquaculture* 1: 232-250.
- Boyd, C.E., 2008. Best managemen practices for marine shrimp aquaculture. In: Tucker, C.S. & J.A. Hargreaves (Eds.). *Environmental best management practices for aquaculture*. Blackwell Publishing.
- Boyd, C. E., Davis, R.P., McNevin, A.A. 2021. Perspectives on the mangrove conundrum, land use, and benefits of yield intensification in farmed shrimp production: A review. *Journal of the World Aquaculture Society* 2021:1-39.
- Bui, T. D., Maier, S. W., dan Austin, C. M. 2013. Land cover and land use change related



- to shrimp farming in coastal areas of Quang Ninh, Vietnam using remotely sensed data. *Aricle of Environ Earth Sci*.
- Bui, T.D., Maier, S.W., Austin, C.M. 2013. Land cover and land use change related to shrimp farming in coastal areas of Quang Ninh, Vietnam using remotely sensed data. *Environ Earth Sci*.
- Campbell, J.B. 2002. *Introduction to Remote Sensing*, 3rd edn. Guilford Press, New York
- CNES, 2011. *SPOT 4 Characteristics*. Perancis
- Citterio, B & Biavasco, F. 2015. *Aeromonas hydrophila virulence*. *Virulence* 6(5):417-418.
- Cunningham, S., Eastman, J.R., Crema, S.C. 2012. Mapping vulnerability and risk of land conversion for pond aquaculture in Thailand, Cambodia and Vietnam. *Aquaculture and Coastal Habitats* 2:1-20.
- Davis, R., Abebe, A., Boyd, C., McNevin, A. 2021. Exploring the relationship between production intensity and land use: A meta-analytic approach with shrimp aquaculture. *Journal of Environmental Management* 300:1-9.
- Duraippah, A., dan Israngkura, A. 2000. Farm permits and optimal shrimp management in Thailand: an integrated inter-temporal and spatial planning model. *International Institute for Environment and Development, London, and Institute for Environmental Studies, Amsterdam*
- Eid, E.M., Arsyad, M., Shaltout, K. H., El-Sheikh, M., Alfarhan, A.H., Yolanda, P., Barcelo. 2019. Effect of the conversion of mangroves into shrimp farms on carbon stock in the sediment along the southern Red Sea coast, Saudi Arabia. *Journal of Environmental Research* 179:1-7.
- European Space Agency. 2015. *Sentinel-2 User Handbook*. Paris.
- Façanha, F. N., Oliveira-Neto, A. R., Figueiredo-Silva, C., & Nunes, A. J. (2016). Effect of shrimp stocking density and graded levels of dietary methionine over the growth performance of *Litopenaeus vannamei* reared in a green-water system. *Aquaculture*, 463, 16–21. <https://doi.org/10.1016/j.aquaculture.2016.05.024>
- FAO, 1997. *Aquaculture Development: FAO Technical Guidelines For Responsible Fisheries No. 5*. FAO. Rome.
- FAO. 2016. *Sustainable intensification of aquaculture in the Asia-Pacific region: Documentation of successful practices*. FAO Regional Office for Asia and The Pacific. Bangkok.
- FAO, NACA, UNEP, WB, & WWF. 2006. *International Principles for Responsible Shrimp Farming*. www.worldbank.org
- FAO. 2020. *The State of World Fisheries and Aquaculture 2020. Sustainability in action*. In *INFORM (Issue 6)*. FAO. <https://doi.org/10.4060/ca9229en>
- FAO. 2021a. *FAO Yearbook. Fishery and Aquaculture Statistics 2019*. FAO. www.fao.org/fishery/static/Yearbook/YB2019_USBcard/index.htm
- FAO. 2021b. *Global aquaculture production Quantity (1950 - 2020)*. FAO. Global



aquaculture production Quantity (1950 - 2020).

- Fast, A.W., 1992c. Penaeid growout system: An overview. In: Fast, A.W. & L.J. Lester (Eds.). Marine shrimp culture. Elsevier. Amsterdam. 335-344 pp.
- Fawzi, N. I. 2016. Pengindraan Jauh untuk Lingkungan dan Konservasi. Penerbit Ombak. Yogyakarta.
- Feliatra, Zainuri, Yoswaty, D. 2014. Pathogenitas bakteri *Vibrio* sp terhadap Udang Windu (*Penaeus monodon*). Jurnal Sungkai 2(1):23-36.
- Funge-Smith, S.J. & M.R.P. Briggs, 1998. Nutrient budgets in intensive shrimp ponds: implications for sustainability. *Aquaculture* 164: 117-133.
- 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.
- Hendrajat, E. A., Ratnawati, E., dan Mustafa Akhmad. 2018. Penentuan pengaruh kualitas tanah dan air terhadap produksi total tambak polikultur Udang Vaname dan ikan bandeng di Kabupaten Lamongan, Provinsi Jawa Timur melalui aplikasi analisis jalur. *Jurnal Ilmu dan Teknologi Kelautan Tropis* 10(1):179-195.
- Henriksson, P. J. G., Guinée, J. B., Kleijn, R., & de Snoo, G. R. 2012. Life cycle assessment of aquaculture systems-A review of methodologies. *International Journal of Life Cycle Assessment*, 17(3), 304–313.
- Hidayati, N. V., Prudent, P., Asia, L., Vassalo, L., Torre, F., Widowati, I., Sabdono, A., Syakti, A. D., & Doumenq, P. (2020). Assessment of the ecological and human health risks from metals in shrimp aquaculture environments in Central Java, Indonesia. *Environmental Science and Pollution Research*, 27(33), 41668–41687.
- Irvansyah. M.Y., Abdulgani N., Mahasari G. 2012. Identifikasi dan intensitas ektoparasit pada kepiting bakau (*Scylla serrata*) stadia kepiting muda di pertambakan kepiting, Kecamatan Sedati, Kabupaten Sidoarjo. *Jurnal Sains dan Seni ITS*. 1(1): E5-E9.
- Islam, S.M., Bhuiyan M.A. 2016. Impact scenarios of shrimp farming in coastal region of Bangladesh: an approach of an ecological model for sustainable management. *Journal of Aquaculture International* 1—28.
- Iswara, A. P., Farahdiba, A. U., Nadhifatin, E. N., Pirade, F., Andhikaputra, G., Muflihah, I., & Boedisantoso, R. (2020). A comparative study of life cycle impact assessment using different software programs. *IOP Conference Series: Earth and Environmental Science*, 506(1), 1–7.
- Jia, J., 2010. Global aquaculture development since 2000: Progress Made In Implementing The Bangkok Declaration And Strategy For Aquaculture Development Beyond 2000. Paper presented at the Global Conference on Aquaculture 2010. Phuket, Thailand
- Jescovitch, L.N., C. Ullman, M. Rhodes & D.A Davis. 2018. Effects of different feed management treatments on water quality for Pacific white shrimp *Litopenaeus vannamei*. *Aquaculture Research*, 49(1): 526-531.



- Jory, D. 2019. Shrimps. In J. S. Lucas, P. C. Southgate, & C. S. Tucker (Eds.), *Aquaculture: Farming Aquatic Animals and Plants* (Third, pp. 499–503). Wiley Blackwell.
- Kasnir, M., Herlina & Rosmiati, 2014. Water quality parameter analysis for the feasibility of shrimp culture in Takalar Regency, Indonesia. *Journal of Aquaculture Research and Development* 5: 273. doi:10.4172/2155- 9546.1000273.
- KKP. 2016. Peta Sentra Produksi Perikanan Budidaya Direktorat Produksi dan Usaha Budidaya. Dirjen Perikanan Budidaya, KKP.
- KKP. 2018. Satu Data Produksi Kelautan dan Perikanan Tahun 2017. Pusat Data, Statistik, Dan Informasi.
- KKP. 2021. Budidaya Udang Vaname (*Litopenaeus vannamei*) di Tambak Milenial Millenial Shrimp Farming (MSF).
- Klinger, D., & Naylor, R. 2012. Searching for solutions in aquaculture: Charting a sustainable course. *Annual Review of Environment and Resources*, 37, 247–276.
- Kumar, V., Roy, S., Behera, B. K., Bossier, P., & Das, B. K. (2021). Acute Hepatopancreatic Necrosis Disease (AHPND): Virulence, Pathogenesis and Mitigation Strategies in Shrimp Aquaculture. *Toxins* 13(8): 524.
- Lavilla-Pitogo, C. R., G. D. Lio-Po, E. R. Cruz-Lacierda, E.V. AlapideTendencia and L. D. De La Pena. 2000. Diseases of penaeid shrimps in the Philippines. *Aquaculture Department Southeast Asian Fisheries*.
- Lightner, D. V., 1996. *A Hand book of Shrimp Pathology and Diagnostic Procedures For Diseases of Cultured Penaisd Shrimp*. He Word Aquaculture Sociely Rouge, Louisiana, 0803 USA.
- Limsuwan, C., 2010. How to prevent high feed conversion ratio in shrimp farming. *Kasetsart university fisheries research bulletin* (34): 28-34.
- Mahasri, G. 2008. Survival Rate (SR) Udang Windu (*Penaeus monodon* Fab.) yang Diimunisasi dengan Whole Protein Zoothamnium penaei Asal Tambak di Pantai Utara dan Selatan Jawa Timur Sebagai Agen Penyebab Zoothamniosis. *Fakultas Kedokteran Hewan. Universitas Airlangga, Surabaya*.
- PÁez-Osuna, F. (2001). The environmental impact of shrimp aquaculture: Causes, effects, and mitigating alternatives. *Environmental Management* 28(1):131–140.
- Pariakan, A. & Rahim. 2021. Karakteristik kualitas air dan keberadaan bakteri *Vibrio* sp. pada wilayah tambak udang tradisional di pesisir Wundulako dan Pomalaa Kolaka
- Piamsomboon, P., dan Han, J. E. 2022. *White Feces Syndrome* a multifactorial syndrome of cultured shrimp : A Mini Review. *Fishes* 339 (7).
- Priyono, S. B. (2020). Daya Dukung Lahan Pasir Pesisir di Kabupaten Bantul Untuk Budidaya Intensif Berkelanjutan Udang Vaname (*Litopenaeus vannamei* Boone, 1931) [Disertasi]. Universitas Gadjah Mada.
- Priyono, S. B., & Triyatmo, B. 2010. Management Practices of Shrimp Farming in Sandy Coastal Areas : A Case Study in Bantul, Indonesia.



- Priyono, S.B., Rustadi., Triyanto., Sudarmadji. 2019. The application of groundwater availability and quality indices on the pre-selection of sustainable Whiteleg shrimp (*Litopenaeus vannamei*) ponds in the sandy coastal area of Bantul, Indonesia. *AACL Bioflux* 12(6):2118-2129.
- Priyono, S.B. 2020. Daya Dukung Lahan Pasir Pesisir di Kabupaten Bantul untuk Budidaya Intensif Berkelanjutan Udang Vaname (*Litopenaeus vannamei* Boone, 1931). Fakultas Pertanian, Universitas Gadjah Mada, Yogyakarta. Disertasi. 126 pp.
- Poulos, B. T. (2006). Purification and characterization of infectious myonecrosis virus of *Penaeid shrimp*. *Journal of General Virology*, 87(4), 987–996.
- Putra, M.K.P., Pribadi, T. A., Ssetiati, N. 2018. Prevalensi ektoparasit udang vannamei pada tambak di Desa Langgenharjo Kabupaten Pati. *Life science* 7(2):1-8.
- Rafiqie, M. 2014. Penyakit Udang Vaname (*Litopenaeus vannamei*) di Tambak PT Tanjung Bejo, Pajajaran Kabupaten Probolinggo. *Jurnal Ilmu Perikanan* 5(1):20-25.
- Ramesh, P., Jasmin, A., Tanveer, M., Ganeshan, P., Rajendran, K., Kamilya, D., Brindhadevi, K. 2024. Environmental impact and effect on greenhouse gas emissions in shrimp feed production system for aquaculture – A case study in India. *Environmental Research* 241: 1-8.
- Rivera, D.A., Gaxiola, G., Herrera, K.S., Davo, A.P., Fuentes, G. R., 2019. A vibriosis outbreak in the Pacific *white shrimp*, *Litopenaeus vannamei* reared in biofloc and clear seawater. *Journal of Invertebrate Pathology* 169: 1-7.
- Rukyani, A. 2000. Masalah Penyakit Udang dan Harapan Solusinya. Sarasehan Akuakultur Nasional. Bogor
- Samah, A. E. 2006. Prospek perdagangan udang di indonesia. buletin penelitian dan pengembangan perdagangan. *Jurnal Kementrian Perdagangan*.
- Sanjoto, T. B. 2013. Perubahan kepadatan vegetasi daerah aliran sungai bodiri berdasarkan interpretasi citra penginderaan jauh. *Jurnal Geografi* 10(2):123-135.
- Setyorini, H.B. 2018. Kandungan total padatan tersuspensi air tambak *litopenaeus vannamei* pantai kuwaru. *Jurnal Riset Daerah* 27(1):1-19.
- Shati, L., Romie, O., dan Poniman, A. 2019. Pemanfaatan citra pengindraan jauh untuk analisis penentuan lahan uji coba kendaraan tempur di Kabupaten Tanggamus Provinsi Lampung. *Jurnal Teknologi Pengindraan*. 1(2): 151-177.
- Stevenson, N.J., Lewis, R.R. & Burbridge, P.R. 1999. Disuses shrimp ponds and mangrove rehabilitation. In: Streever, W. (Ed.). *An international perspective on wetland rehabilitation*. Kluwer Academic Press. Dordrecht. 277-297 pp.
- Stigebrandt, A., 2011. Carrying capacity: General principles of model construction. *Aquaculture Research* 42: 41-50.
- Supriatna., Mahmudi, M., Musa, M., Kusriani. 2020. Hubungan pH dengan parameter kualitas air pada tambak intensif udang vannamei (*Litopenaeus vannamei*). *Journal of Fisheries and Marine* 4(3): 368- 374



- Sutanto. 1994. Penginderaan Jauh Jilid I. Gadjah Mada University Press : Yogyakarta.
- Suwoyo, H.S., Fahrur, M., Makmur, & Syah, R. (2015). Pemanfaatan limbah tambak udang superintensif sebagai pupuk organik untuk pertumbuhan biomassa klekap dan nener bandeng. *Media Akuakultur* 11(2):97-110.
- Syah, R., Makmur, & Undu, M.C. (2014). Estimasi beban limbah nutrisi pakan dan daya dukung kawasan pesisir untuk tambak udang vaname superintensif. *Jurnal Riset Akuakultur* 9(3):439-448.
- Syukri, Muhammad. 2016. The influence of salinity to the survival and growth of the larvae of tiger shrimp (*Penaeus monodon*). *Jurnal Galung Tropika* 5(2):86-96.
- Triyatmo, B., Rustadi & Priyono, S.B. (2018). Characteristics and environmental carrying capacities of coastal area in Yogyakarta Special Region for aquaculture. *Proceeding of The 2nd International Symposium on Marine and Fisheries Research 2017*. IOP Conference Series: Earth and Environmental Science 139:012007. doi: 10.1088/1755-1315/139/1/012007.
- Turkmen, G. & Ozden, O. 2009. Environmentally sustainable shrimp aquaculture systems. Paper presented at The 1st International Symposium on Sustainable Development, Sarajevo, on June 9-10 2009. 12 pp.
- U.S. Geological Survey. 2023. <https://www.usgs.gov/landsatmissions/landsat-7>. Diakses pada tanggal 7 Agustus 2023.
- Yi, D., Reardon, T., dan Stringer, R. 2018. Shrimp aquaculture technology change in Indonesia: Are small farmers included. *Journal of Aquaculture* 493:436-445
- Yuwono, N. W. (2009). Membangun kesuburan tanah di lahan marginal. *Jurnal Ilmu Tanah Dan Lingkungan*, 9(2), 137–141.
- Zivano, A., Brusa, F., Damborenea. 2020. Integrated morphological and ecological traits to identify *Temnocephala digitata* Monticelli, 1902 (Platyhelminthes, Temnocephalida) and neotype designation. *Zoologischer Anzeiger* 287 : 31-44.
- Zulkarnain, R., K. Adiyana, Waryanto, H. Nugroho, B. Nugraha, L. Thesiana & E. Supriyono. 2020. Selection of intensive shrimp farming technology for small farmers with analytical hierarchy process: a case for whiteleg shrimp (*Litopenaeus vannamei*). *IOP Conference Series: Earth and Environmental Science* 404(1): 12 – 17.