

DAFTAR PUSTAKA

- Anderson, D. J., Kobryn, H. T., Norman, B. M., Bejder, L., Tyne, J. A., & Loneragan, N. R. (2014). Spatial and temporal patterns of nature-based tourism interactions with whale sharks (*Rhincodon typus*) at Ningaloo Reef, Western Australia. *Estuarine, Coastal and Shelf Science*, *148*, 109–119. <https://doi.org/10.1016/j.ecss.2014.05.023>
- Andrzejaczek, S., Meeuwig, J., Rowat, D., Pierce, S., Davies, T., Fisher, R., & Meekan, M. (2016). The ecological connectivity of Whale Shark aggregations in the Indian ocean: A photo-identification approach. *Royal Society Open Science*, *3*(11). <https://doi.org/10.1098/rsos.160455>
- Anna, Z., & Saputra, D. S. (2017). Economic valuation of whale shark tourism in Cenderawasih Bay National Park, Papua, Indonesia. *Biodiversitas*, *18*(3), 1026–1034. <https://doi.org/10.13057/biodiv/d180321>
- Anwar, I. P., Putri, M. R., Tarya, A., Nurfitri, S., Setiawan, A., Tatipatta, W. M., & Mandang, I. (2023). Detecting chlorophyll-a concentration and bloom patterns in the coastal area around Indonesia's new capital city (Nusantara) using ocean color reanalysis data. *AACL Bioflux*, *16*(4), 2349–2368.
- Araujo, G. (2021). *Ecology of the world's largest fish Rhincodon typus in the Philippines*.
- Barry, C., Legaspi, C., Clarke, T. M., Araujo, G., Bradshaw, C. J. A., Gleiss, A. C., Meyer, L., & Huvneers, C. (2023). Estimating the energetic cost of whale shark tourism. *Biological Conservation*, *284*. <https://doi.org/10.1016/j.biocon.2023.110164>
- Bay, C., Manuhutu, J. F., Herawati, E. Y., R Wiadnya, D. G., & Sambah, A. B. (2020). *Study on occurrence frequency and time, and food habit of whale shark (Rhincodon typus) in the National Park of* (Vol. 13, Issue 6). <http://www.bioflux.com.ro/aacl>
- Bignell, C. J., Patterson, T. A., Donovan, A., Vanderklift, M. A., Rochester, W., Semmens, J. M., & Pillans, R. D. (2025). Satellite tracking reveals sex-specific differences in the geographical and vertical habitat use of Whale sharks, *Rhincodon typus*, in the Eastern Indian ocean. *Marine Biology*, *172*(7). <https://doi.org/10.1007/s00227-025-04616-5>
- Boldrocchi, G., Omar, M., Azzola, A., & Bettinetti, R. (2020). The ecology of the whale shark in Djibouti. *Aquatic Ecology*, *54*(2), 535–551. <https://doi.org/10.1007/s10452-020-09758-w>
- Brooks, K., Rowat, D., Pierce, S. J., Jouannet, D., & Vely, M. (2010). Seeing Spots: Photo-identification as a Regional Tool for Whale Shark Identification. In *Western Indian Ocean J. Mar. Sci* (Vol. 9, Issue 2).
- Copping, J. P., Stewart, B. D., McClean, C. J., Hancock, J., & Rees, R. (2018). Does bathymetry drive coastal whale shark (*Rhincodon typus*) aggregations? *PeerJ*, *6*(6), e4904. <https://doi.org/10.7717/peerj.4904>
- D'Antonio, B., Thomson, P. G., Pattiaratchi, C. B., Ferreira, L. C., Thums, M., Meekan, M., Sequeira, A. M. M., Lieber, L., Virtue, P., Power, C., Power, C., & Brierley, A. S. (2024).

Links between the three-dimensional movements of whale sharks (*Rhincodon typus*) and the bio-physical environment off a coral reef. *Movement Ecology*, 12(1). <https://doi.org/10.1186/s40462-024-00452-2>

- Gonzalez-Pestana, A., Maguiño, R., Mendoza, A., Kelez, S., & Ramírez-Macías, D. (2020). Distribution of whale shark (*Rhincodon typus*) off northern Peru based on habitat suitability. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 30(7), 1325–1336. <https://doi.org/10.1002/aqc.3330>
- Green, S. M., Hearn, A., & Green, J. R. (2023). Species associated with whale sharks *Rhincodon typus* (Orectolobiformes, Rhincodontidae) in the Galapagos Archipelago. *Biodiversity Data Journal*, 11. <https://doi.org/10.3897/BDJ.11.E97864>
- Guzman, H. M., Collatos, C. M., & Gomez, C. G. (2022). Movement, Behavior, and Habitat Use of Whale Sharks (*Rhincodon typus*) in the Tropical Eastern Pacific Ocean. *Frontiers in Marine Science*, 9. <https://doi.org/10.3389/fmars.2022.793248>
- Guzman, H. M., Gomez, C. G., Hearn, A., & Eckert, S. A. (2018). Longest recorded trans-Pacific migration of a whale shark (*Rhincodon typus*). *Marine Biodiversity Records*, 11(1). <https://doi.org/10.1186/s41200-018-0143-4>
- Hamid, A., Toha, A., Saiful, A., Juswono, A., Setiawan, B., & Bawole, R. (2019). *Hiu Paus Teluk Cenderawasih : Riset dan Monitoring, Balai Besar Taman Nasional Teluk Cenderawasih dan WWF-Indonesia*.
- Handoko, K., Himawan, M. R., Tania, C., Jakasukmana, M., Maduppa, H., Subhan, B., & Hadriana, S. (2019). Buku Hiu Paus 2019 - Pantai Botubarani. *Balai Pengelolaan Sumber Daya Pesisir Dan Laut Makassar, Ditjen Pengelolaan Ruang Laut, Kementerian Kelautan Dan Perikanan*.
- Handoko, K., Indryasworo Sukmoputro, Ra., Himawan, M. R., Tania, C., & Pengelolaan Sumberdaya Pesisir dan Laut Makassar-KKP, B. (2017). Karakteristik Populasi Hiu Paus (*Rhincodon typus*) dan Pola Perilaku Tinggalnya di Pantai Botubarani, Bone Bolango, Gorontalo. *Coastal and Ocean Journal*, 1(2), 169–178. <http://coj.pksplipb.or.id/>;
- Hardenstine, R. S., He, S., Cochran, J. E. M., Braun, C. D., Cagua, E. F., Pierce, S. J., Prebble, C. E. M., Rohner, C. A., Saenz-Angudelo, P., Sinclair-Taylor, T. H., Zakroff, C. J., & Berumen, M. L. (2022). Pieces in a global puzzle: Population genetics at two whale shark aggregations in the western Indian Ocean. *Ecology and Evolution*, 12(1). <https://doi.org/10.1002/ece3.8492>
- Hari Murdani, N., Masy, B., Fredinan Yulianda, D., Pascasarjana, M., Studi Konservasi Biodiversitas Tropika, P., Departemen Konservasi Sumberdaya Hutan dan Ekowisata, D., & Fakultas Perikanan IPB, D. (2018). *BIOEKOLOGI DAN STRATEGI PENGEMBANGAN EKOWISATA HIU PAUS (Rhincodon typus) DI TAMAN NASIONAL TELUK CENDERAWASIH (Bioecological and Ecotourism Development Strategy of Whale Shark-Rhincodon Typus in Teluk Cenderawasih National Park)* (Vol. 23, Issue 1).
- Harvey-Carroll, J., Stewart, J. D., Carroll, D., Mohamed, B., Shameel, I., Zareer, I. H., Araujo, G., & Rees, R. (2021). The impact of injury on apparent survival of whale sharks

(*Rhincodon typus*) in South Ari Atoll Marine Protected Area, Maldives. *Scientific Reports*, 11(1). <https://doi.org/10.1038/s41598-020-79101-8>

Himawan, M. R., Tania, C., Noor, B. A., Wijonarno, A., Subhan, B., & Madduppa, H. (2015). *AACL BIOFLUX Aquaculture, Aquarium, Conservation & Legislation International Journal of the Bioflux Society Sex and size range composition of whale shark (Rhincodon typus) and their sighting behaviour in relation with fishermen lift-net within Cenderawasih Bay National Park, Indonesia* (Vol. 8, Issue 2). <http://www.bioflux.com.ro/aacl>

Himawan, M. R., Tilahunga, S. D., Hidayati, E., Nurliah, Amar, F., & Tania, C. (2022). Pengembangan Wisata Hiu Paus Berbasis Iot (Internet Of Things) Melalui Siaran Langsung Jelajah Virtual Hiu Paus Di Alam Liar Di Pantai Desa Botubarani, Kabila Bone, Bone Bolango, Gorontalo. *Indonesian Journal of Fisheries Community Empowerment*, 2(1), 51–56. <https://doi.org/10.29303/jppi.v2i1.500>

Hoffmayer, E. R., Driggers, W. B., Falterman, B. J., Franks, J. S., Hendon, J. M., McKinney, J. A., & Shelley, J. P. (2025). Spinal deformity in a whale shark, *Rhincodon typus* (Smith 1828), encountered in the northern Gulf of Mexico, with notes on its movement patterns. *Journal of Fish Biology*, 106(4), 1231–1236. <https://doi.org/10.1111/jfb.16012>

Hukom, F. D. (2016). Biologi dan Konservasi Spesies Beruaya (Tinjauan Khusus Hiu Paus : *Rhincodon typus*). *Oseana, Volume XLI, Nomor 4*, 72–90.

Ihsan, E. N., Enita, S. Y., Kunarso, & Wirasatriya, A. (2018). Oceanographic Factors in Fishing Ground Location of Anchovy at Teluk Cenderawasih National Park, West Papua : Are These Factors Have an Effect of Whale Sharks Appearance Frequencies? *IOP Conference Series: Earth and Environmental Science*, 116(1). <https://doi.org/10.1088/1755-1315/116/1/012017>

Legaspi, C., Miranda, J., Labaja, J., Snow, S., Ponzo, A., & Araujo, G. (2020). In-water observations highlight the effects of provisioning on whale shark behaviour at the world's largest whale shark tourism destination: Whale shark behaviour in Oslob. *Royal Society Open Science*, 7(12). <https://doi.org/10.1098/rsos.200392>

Macena, B. C. L., & Hazin, F. H. V. (2016). Whale shark (*Rhincodon typus*) seasonal occurrence, abundance and demographic structure in the mid-equatorialatlantic ocean. *PLoS ONE*, 11(10). <https://doi.org/10.1371/journal.pone.0164440>

Maruanaya, Y., Retraubun, Prof. A., Tuhumury, S. F., & Abrahamzs, J. (2022). KEBIASAAN MAKAN DAN FREKUENSI KEMUNCULAN HIU PAUS (*Rhincodon typus*) DI PERAIRAN KWATISORE DALAM HAK ULAYAT LAUT KAMPUNG AKUDIOMI DI TAMAN NASIONAL TELUK CENDERAWASIH. *Jurnal Ilmu Dan Teknologi Kelautan Tropis*, 14(1), 109–129. <https://doi.org/10.29244/jitkt.v14i1.39648>

Nelson, J. D., & Eckert, S. A. (2007). Foraging ecology of whale sharks (*Rhincodon typus*) within Bahía de Los Angeles, Baja California Norte, México. *Fisheries Research*, 84(1), 47–64. <https://doi.org/10.1016/j.fishres.2006.11.013>

Norman, B. M., Whitty, J. M., Beatty, S. J., Reynolds, S. D., & Morgan, D. L. (2017). Do they stay or do they go? Acoustic monitoring of whale sharks at Ningaloo Marine Park, Western Australia. *Journal of Fish Biology*, 91(6), 1713–1720. <https://doi.org/10.1111/jfb.13461>

- Pancaldi, F., Ayres, K. A., Gallagher, A. J., Moskito, J., Williamson, K. C., & Higuera Rivas, J. E. (2024). Killer whales (*Orcinus orca*) hunt, kill and consume the largest fish on Earth, the whale shark (*Rhincodon typus*). *Frontiers in Marine Science*, *11*. <https://doi.org/10.3389/fmars.2024.1448254>
- Rahman, A., Haryadi, J., Sentosa, A. A., Balai, M., Pemulihan, P., Konservasi, D., & Ikan, S. (2017). Kajian Awal Kemunculan Hiu Paus (*Rhincodon typus*, Smith 1828) di Teluk Tomini Dihubungkan dengan Faktor Fisik dan Biologi Perairan Preliminary Study of Whale Sharks Occurance (*Rhincodon typus*, Smith 1828) in Gulf of Tomini Connected with Physical and Biological Factors of Water. In *Jurnal Akuatika Indonesia* (Vol. 2, Issue 2).
- Rahman, R., Suyasa, I. N., Syamsuddin, A., & Pahlevi, R. S. (2025). Population Structure, Site Fidelity, and Residency Patterns of Whale Sharks (*Rhincodon typus*) in Botubarani Waters, Gorontalo Province, Indonesia. *HAYATI Journal of Biosciences*, *32*(4), 908–919. <https://doi.org/10.4308/hjb.32.4.908-919>
- Ramadan, A. M. (2023). Pengertian dan Macam-macam Kerangka Berpikir Penelitian. *Ebizmark Blog*, 1–7.
- Ranintyari, M., Sunarto, Syamsuddin, M. L., & Astuty, S. (2018). Effects of oceanographic factors on spatial distribution of Whale Shark in Cendrawasih Bay National Park, West Papua. *Iop Conference Series Earth and Environmental Science*, *149*(1). <https://doi.org/10.1088/1755-1315/149/1/012050>
- Reinero, F. R., Vicariotto, C., Maule, L., Micarelli, P., Marsella, A., Pacifico, A., & Mahrer, M. (2024). Influence of Environmental Factors on the Surface Feeding Behaviour of Immature Male Whale Sharks in the Gulf of Tadjoura (Djibouti). *Conservation*, *4*(4), 792–811. <https://doi.org/10.3390/conservation4040047>
- Rowat, D., Meekan, M. G., Engelhardt, U., Pardigon, B., & Vely, M. (2007). Aggregations of juvenile whale sharks (*Rhincodon typus*) in the Gulf of Tadjoura, Djibouti. *Environmental Biology of Fishes*, *80*(4), 465–472. <https://doi.org/10.1007/s10641-006-9148-7>
- Ryan, J. P., Green, J. R., Espinoza, E., & Hearn, A. R. (2017). Association of whale sharks (*Rhincodon typus*) with thermo-biological frontal systems of the eastern tropical Pacific. *Plos One*, *12*(8). <https://doi.org/10.1371/journal.pone.0182599>
- Setyawan, E., Hasan, A. W., Malaiholo, Y., Sianipar, A. B., Mambrasar, R., Meekan, M., Gillanders, B. M., D'Antonio, B., Putra, M. I. H., & Erdmann, M. V. (2025). Insights into the population demographics and residency patterns of photo-identified whale sharks *Rhincodon typus* in the Bird's Head Seascape, Indonesia. *Frontiers in Marine Science*, *12*. <https://doi.org/10.3389/fmars.2025.1607027>
- Sleeman, J. C., Meekan, M. G., Stewart, B. S., Wilson, S. G., Polovina, J. J., Stevens, J. D., Boggs, G. S., & Bradshaw, C. J. A. (2011). Corrigendum to “To go or not to go with the flow: Environmental influences on whale shark movement patterns” [J. Exp. Mar. Biol. Ecol. 390 (2010) 84-98]. *Journal of Experimental Marine Biology and Ecology*, *396*(2), 255. <https://doi.org/10.1016/j.jembe.2010.10.009>
- Suryawati, B. N., Abdurrahman, A., Amini, A., Nurhasanah, E. O., Firda, H., Eka, J. R., & Afisa, N. (2022). OPTIMALISASI POTENSI WISATA HIU PAUS MELALUI EKOWISATA

BERKELANJUTAN DI REST AREA DESA WISATA LABUHAN JAMBU. *Jurnal Bakti Nusa*, 3(1), 1–8. <https://doi.org/10.29303/baktinusa.v3i1.45>

- Tilahunga, S. D.J. , H. O. A., Mahmud Sahami, F., Wunanto Hasan, A., Iqbal Herwata Putra, M., & Erdmann, M. V. (2024). *International Journal of Biological Engineering and Agriculture Preliminary Monitoring of Whale Shark (Rhincodon typus) Migration Patterns in the Waters Botubarani Village Gorontalo Based on Satellite Marker Monitoring*. www.inter-publishing.com
- Womersley, F., Hancock, J., Perry, C. T., & Rowat, D. (2021). Wound-healing capabilities of whale sharks (*Rhincodon typus*) and implications for conservation management. *Conservation Physiology*, 9(1). <https://doi.org/10.1093/conphys/coaa120>
- Yasir, M., Hartati, R., Indrayanti, E., & Amar, F. (2024). Characteristics of external injuries of whale sharks (*Rhincodon typus*, Smith 1828) in Botubarani waters, Gorontalo, Indonesia. *Egyptian Journal of Aquatic Research*. <https://doi.org/10.1016/j.ejar.2024.08.002>
- Yasir, M., Hartati, R., Indrayanti, E., Amar, F., & Tarigan, A. I. (2024a). Seasonal Constellation of Juvenile Whale Sharks in Gorontalo Bay Coastal Park. *Ilmu Kelautan: Indonesian Journal of Marine Sciences*, 29(2), 241–253. <https://doi.org/10.14710/ik.ijms.29.2.241-253>
- Yasir, M., Hartati, R., Indrayanti, E., Amar, F., & Tarigan, A. I. (2024b). Seasonal Constellation of Juvenile Whale Sharks in Gorontalo Bay Coastal Park. *Ilmu Kelautan: Indonesian Journal of Marine Sciences*, 29(2), 241–253. <https://doi.org/10.14710/ik.ijms.29.2.241-253>
- Yusma, A. M. I., Yudianto, P., Rizal, M., Pamungkas, P. P., Abdullah, Musram, S., Oramahi, W. A., Amar, F., & Hamzah, H. (2024). Laporan Monitoring Habitat Hiu Paus (*Rhincodon typus*). In *Balai Pengelolaan Sumber Daya Pesisir dan Laut Makassar, Ditjen Pengelolaan Kelautan dan Ruang Laut, Kementerian Kelautan dan Perikanan*.
- Yusma, A. M. I., Saru, A., Samawi, M. F., Lahay, N., Muh Rizal, B., Pandu Putri, P., & Amar, F. (2025). The Temporal Dynamics of Newly Individual Whale Sharks (*Rhincodon typus*) Appearance in the Interaction Zone of Botubarani Waters, Marine Protected Area of Teluk Gorontalo from 2016 to 2024. *BIO Web of Conferences*, 185. <https://doi.org/10.1051/bioconf/202518501001>
- Yusma, A. M. I., Saru, A., Farid Samawi, M., Lahay, N., & Jakasukmana, M. (2025). *Analysis of Synergistic Oceanographic Factors Influencing Seasonal Whale Shark (Rhincodon typus) Appearance in Botubarani Waters, Gorontalo Bay, Indonesia* ARTICLE INFO ABSTRACT (Vol. 29, Issue 4). www.ejabf.journals.ekb.eg