UNIVERSITAS
GADJAH MADA
Pengelolaan Pesisir Berdasarkan Analisis Multibahaya Di Wilayah Kepesisiran Pulau Weh Sabang
M. Rauzan, Prof. Dr. Djati Mardiatno, M.Si.; Dr. Nurul Khakhim, M.Si.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Abimanyu, A., Fahrezi, Z., & Arief, C. W. (2019). *Analisis Kerentanan Bencana di Kota Sabang-Pulau Weh melalui Visualisasi 2D dan 3D*.

Afandy, M. N., & Wahyudi, F. (2014). Strategi pengembangan objek wisata Pantai Gapang dan Pantai Iboih di Kota Sabang dalam meningkatkan pendapatan asli daerah Kota Sabang. *Jurnal Ilmu Administrasi: Media Pengembangan Ilmu dan Praktek Administrasi*, *11*(1), 74-95.

Afonso, O., Nuno, F., João, P., Matos-Carvalho. (2024). Data Science for Geographic Information Systems. 1-7. doi: 10.1109/yef-ece62614.2024.10624902

Akbar, A. A., Sartohadi, J., Djohan, T. S., & Ritohardoyo, S. (2017). Erosi pantai, ekosistem hutan bakau dan adaptasi masyarakat terhadap bencana kerusakan pantai di negara tropis. Jurnal Ilmu Lingkungan, *15*(1), 1-10.

Aldyza, N., Barus, T. A., Mulya, M. B., & Sarong, M. A. (2022). Coral resilience inside and outside of Pesisir Timur Pulau Weh conservation zone, Sabang City, Indonesia. *Biodiversitas*, *23*(11), 5744–5751. https://doi.org/10.13057/biodiv/d231126

Ali, M., Saputri, M., & Mursawal, A. (2020). *Wajah Pesisir Aceh*. Syiah Kuala University Press.

Alwi, M. (2023). *Pengelolaan Lingkungan Kepesisiran Berdasarkan Analisis Multibahaya akibat Perubahan Iklim di Kepulauan Karimunjawa* (Thesis, Universitas Gadjah Mada).

Alwi, M., Mutaqin, B. W., & Marfai, M. A. (2025). Coastal management based on multi-hazard assessment in the very small islands of Karimunjawa, Indonesia. *Anthropocene Coasts*, *8*(1). https://doi.org/10.1007/s44218-025-00069-x

Andika, I. B. M. B. (2023). Analisis vegetasi mangrove di taman hutan raya ngurah rai bali. *Jurnal Sosial dan Sains,* 3(5), 450-458.

Anzidei, M., Stramondo, S., Bignami, C., Brunori, C. A., Montuori, A., Moro, M. & Vecchio, A. (2016). Relative sea level changes along the coast of Rome (Italy) from InSAR and ground based data: drivers and flooding scenarios for 2100. In *GeoSub International Congress 2016*.

UNIVERSITAS
GADJAH MADA
Pengelolaan Pesisir Berdasarkan Analisis Multibahaya Di Wilayah Kepesisiran Pulau Weh Sabang
M. Rauzan, Prof. Dr. Djati Mardiatno, M.Si.; Dr. Nurul Khakhim, M.Si.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Appelquist, L. R., & Balstrøm, T. (2014). Application of the Coastal Hazard Wheel methodology for coastal multi-hazard assessment and management in the state of Djibouti. *Climate Risk Management*, *3*, 79–95. https://doi.org/10.1016/j.crm.2014.06.002

Appelquist, L. R., & Balstrøm, T. (2015). Application of a new methodology for coastal multi-hazard-assessment & management on the state of Karnataka, India. *Journal of Environmental Management*, *152*, 1-10.

Appelquist, L. R., Balstrøm, T., & Halsnæs, K. (2016). Managing climate change hazards in coastal areas: The Coastal Hazard Wheel decision-support system. *Catalogue of hazard management options*.

Appelquist, L. R., Balstrøm, T., & Halsnæs, K. (2016). Managing climate change hazards in coastal areas: The Coastal Hazard Wheel decision-support system. Main Manual. *Nairobi, Kenya: United Nations Environment Programme, UNEP Job No. DEP/2029/NA*.

Appelquist, L. R., Balstrøm, T., Halsnaes, K., Nicholls, R. J. R., Linham, M. M., Spensley, J., Stronkhorst, J., Koefoed Bjørnsen, P., James Lloyd, G., Jeppesen, G., Vestergaard, O., Aagaard, T., Al-Zu, I., Tutu Benefor, D., Deenapanray, S., Firmian, I., Kidde-Hansen, I., De Lopez, T., Mangor, K., Salman, R. (2016). *Managing climate change hazards in coastal areas The Coastal Hazard Wheel decision-support system Main manual Acknowledgements We would like to thank the following for their valuable feedback and advice*. UNEP.

Arbic, B., Karsten, R., & Garrett, C. (2009). On tidal resonance in the global ocean and the back-effect of Coastal Tides upon open-ocean tides. *Atmosphere - Ocean*, *47*(4), 239–266. https://doi.org/10.3137/OC311.2009.

Ardiansyah, Y., Syah, A. F., & Hidayah, Z. (2017). Pemodelan genangan kenaikan muka air laut (sea level rise) Menggunakan data penginderaan jauh dan sistem informasi Geografi di wilayah pesisir Selat Madura. In *Prosiding Seminar Nasional Kelautan dan Perikanan* (Vol. 3, No. 2017, pp. 203-214).

Badan Nasional Penanggulangan Bencana. (2021). Kajian Risiko Bencana Provinsi Aceh 2022-2026. BNPB.

UNIVERSITAS
GADJAH MADA
Pengelolaan Pesisir Berdasarkan Analisis Multibahaya Di Wilayah Kepesisiran Pulau Weh Sabang
M. Rauzan, Prof. Dr. Djati Mardiatno, M.Si.; Dr. Nurul Khakhim, M.Si.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Bahri, S. (2024). Transmisi Informasi Kebencanaan Dalam Penerapan Kebijakan Relokasi Pasca Gempa Bumi, Tsunami Dan Likuifaksi Di Palu Sulawesi Tengah: Transmission Of Disaster Information In Implementing Relocation Policies After The Earthquake, Tsunami And Liquefaction In Palu, Central Of Sulawesi. *Journal of Government Science (GovSci): Jurnal Ilmu Pemerintahan*, *5*(2), 79-99.

Banggi Kabupaten Rembang dengan Pendekatan Analytical Hierarchy Process (AHP). *Jurnal Kelautan Tropis*, *25*(2), 191-201.

Bavinaya, P. K., Prabhakaran, M., Usha, T., Muthusankar, G., & Lakshumanan, C. (2024). Coastal vulnerability assessment for southeast coast of India using Coastal Hazard Wheel. *Disaster Advances*, *17*(2), 23–30.

Benazir, B., Kuswandi, K., Aslami, M. H., Ikhwali, M. F., & Hijah, S. N. (2022). Estimasi Waktu Kedatangan Tsunami Berdasarkan Patahan Segmen Aceh-Andaman Untuk Daratan Pantai Utara Aceh. *Jurnal Teknik Hidraulik*, *13*(2), 65-76.

Boak, E. H., & Turner, I. L. (2005). Shoreline definition and detection: a review. *Journal of coastal research*, *21*(4), 688-703.

Bosserelle, A. L., Morgan, L. K., & Hughes, M. W. (2022). Groundwater Rise and Associated Flooding in Coastal Settlements Due To Sea-Level Rise: A Review of Processes and Methods. *Earth's Future*, *10*(7), 1–26. https://doi.org/10.1029/2021EF002580

Castillo, R. V., Valdecantos, V. N., & del Campo, J. M. (2023). Understanding the impact of hydrodynamics on coastal erosion in Latin America: a systematic review. *Frontiers in Environmental Science*, *11*, 1–24. https://doi.org/10.3389/fenvs.2023.1267402

Chen, W., Mao, C., He, L., & Jiang, M. (2020). Sea-level rise impacts on the saline water intrusion and stratification of the Yangtze Estuary. *Journal of Coastal Research*, *95*(SI), 1395–1400.

Dimanova, D. (2024). Geographical information systems and their application in various fields. *Journal scientific and applied research*, 27(1):90-96. doi: 10.46687/jsar.v27i1.409

UNIVERSITAS
GADJAH MADA
Pengelolaan Pesisir Berdasarkan Analisis Multibahaya Di Wilayah Kepesisiran Pulau Weh Sabang
M. Rauzan, Prof. Dr. Djati Mardiatno, M.Si.; Dr. Nurul Khakhim, M.Si.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Djuraini, M. F. (2024). Assessing Coastal Multi-Hazards in the Randangan River Mouth Area, Tomini Bay, Indonesia. *Coastal and Ocean Journal*, *9*(1), 57–69. https://doi.org/10.29244/coj.v9i1.6411

Ekawati, R. (2016). Implementasi Geocoding Data Alamat Untuk Optimalisasi Strategi Bisnis Dalam Sistem Informasi Geografis. *Kilat*, *5*(1), 66-72.

Erkamim, M., Mukhlis, I. R., Putra, P., Adiwarman, M., Rassarandi, F. D., Rumata, Fathurohman, A., Napitupulu, G., Fujiawati, G., & Napitupulu, M. (2025). Impact Of Significant Wave Height, Wind Speed, and Precipitation Variability on Shipping Safety in Indonesian Archipelagic Sea Lanes. *Bulletin of The Marine Geology*, *40*(1), 44–61. https://doi.org/10.32693/bomg.40.1.2025.895

Fauzie, A. K. (2016). Assessment and management of coastal hazards due to flooding, erosion and saltwater intrusion in Karawang, West Java, Indonesia. *Jornal of Coastal Sciences*, *3*(2), 8–17. https://doi.org/https://doi.org/10.6084/M9.FIGSHARE.4055154.V1

Fitriawan, R. A. (2017). Jurnalisme sains dan sistem peringatan dini di Indonesia. *Jurnal Kajian Jurnalisme*, *1*(1).

Fu, G., Mingguang, H., Xiaofeng, C., Mingye, F., Yanwei, S., Chenglong, W., Hongbing, W., Daheng, Z. (2024). Research on comprehensive assessment of coastal erosion intensity based on multi index method. *Frontiers in Marine Science,* 11 doi: 10.3389/fmars.2024.1465437

Gemilang, W. A., Wisha, U. J., & Rahmawan, G. A. (2018). Particle size characteristics of riverbed sediments transported by tidal bore 'bono' in Kampar Estuary, Riau-Indonesia. *Marine Research in Indonesia*, *43*(1), 25–35. https://doi.org/10.14203/mri.v43i1.293

Grams, P. E., & Schmidt, J. C. (2005). Equilibrium or indeterminate? Where sediment budgets fail: Sediment mass balance and adjustment of channel form, Green River downstream from Flaming Gorge Dam, Utah and Colorado. *Geomorphology*, *71*(1–2), 156–181. https://doi.org/10.1016/j.geomorph.2004.10.012

Haditiar, Y., Ikhwan, M., Nanda, M., & Haridhi, H. A. (2024). Understanding sea wave height conditions in sumatra waters. *BIO Web of Conferences*, *87*.

UNIVERSITAS
GADJAH MADA
Pengelolaan Pesisir Berdasarkan Analisis Multibahaya Di Wilayah Kepesisiran Pulau Weh Sabang
M. Rauzan, Prof. Dr. Djati Mardiatno, M.Si.; Dr. Nurul Khakhim, M.Si.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

https://doi.org/10.1051/bioconf/20248702014

Handoko, E. and Ariani, R. (2020). Analisis kenaikan muka air laut indonesia tahun 1993-2018 menggunakan data altimetri. *Geoid,* 15(1), 58.

Haslett, S. (2009). *Coastal systems*. Routledge.

Hikmah, D., Arisanti, L. E., & Irmawan, D. (2020). Tipe Pasang Surut di Pelabuhan Benoa Bali dengan Metode Admiralty Berdasarkan Data Automatic Weather Station (AWS). *Jurnal Widya Climago*, 2, 86–95.

Irawati, N. (2023). *Buku Mitigasi Bencana Wilayah Pesisir Kawasan Wisata Pantai Selatan Daerah Istimewa Yogyakarta*. Penerbit Widina.

Irwansyah, E. (2013). *Sistem informasi geografis: prinsip dasar dan pengembangan aplikasi*. DigiBook Yogyakarta.

Jia, Y., Xiao, K., Lin, M., & Zhang, X. (2022). Analysis of Global Sea Level Change Based on Multi-Source Data. *Remote Sensing*, *14*(19).

Jupri, A., Ahyadi, H., Purnamayanti, J., Rahmatullah, D. R., Aqiela, Z., Royani, A. D. M. & Riski, D. (2024). Analysis of The Impact of Climate Change on The Vulnerability of Coastal Areas and Small Islands in Gili Air, North Lombok. *Jurnal Biologi Tropis*, *24*(3), 974-984.

Kantamaneni, K., Christie, D., Lyddon, C. E., Huang, P., Nizar, M., Balasubramani, K., Ravichandran, V., Prasad, K. A., Pushparaj, R. R. B., Robins, P., & Panneer, S. (2022). A Comprehensive Assessment of Climate Change and Coastal Inundation through Satellite-Derived Datasets: A Case Study of Sabang Island, Indonesia. *Remote Sensing*, *14*(12).

Kennedy, M., David. (2024). A review of the vulnerability of low-lying reef island landscapes to climate change and ways forward for sustainable management. doi: 10.1016/j.ocecoaman.2023.106984

Kristy, A., Lewis., Giovanna, McClenachan., Kristin, DeMarco., Jennifer, L., Salerno., Katherine, Thompson. (2023). Perspectives From Coastal Ecosystems Through the Lens of Climate Change. *Oxford Research Encyclopedia of Climate Science.*

Kumar, M., Singh, R.B., Singh, A., Pravesh, R., Majid, S.I., Tiwari, A. (2023). Application of GIS in Urban Policy/Planning/Management. In: Geographic Information Systems in Urban Planning and Management. Advances in

UNIVERSITAS
GADJAH MADA
Pengelolaan Pesisir Berdasarkan Analisis Multibahaya Di Wilayah Kepesisiran Pulau Weh Sabang
M. Rauzan, Prof. Dr. Djati Mardiatno, M.Si.; Dr. Nurul Khakhim, M.Si.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Geographical and Environmental Sciences. *Springer,* Singapore.

Kurniawan, A., & Sadali, M. I. (2018). *Keistimewaan Lingkungan Daerah Istimewa Yogyakarta*. UGM PRESS.

Kurnio, H., Lubis, S., & Widi, H. C. (2015). Submarine Volcano Characteristics in Sabang Waters. *Bulletin of the Marine Geology*, *30*(2), 85–96. https://doi.org/http://dx.doi.org/10.32693/bomg.30.2.2015.78

Laino, E., Toledo, I., Aragonés, L., & Iglesias, G. (2024). A novel multi-hazard risk assessment framework for coastal cities under climate change. *Science of the Total Environment*, *954*.

Lazuardi, Z., Karim, A., & Sugianto, S. (2022). Analisis Perubahan Garis Pantai Menggunakan Digital Shoreline Analysis System (DSAS) di Pesisir Timur Kota Sabang. *Jurnal Ilmiah Mahasiswa Pertanian*, *7*(1), 662-676.

Legionosuko, T., Madjid, M. A., Asmoro, N., & Samudro, E. G. (2019). Posisi dan strategi indonesia dalam menghadapi perubahan iklim guna mendukung ketahanan nasional. *Jurnal Ketahanan Nasional*, *25*(3), 295-312.

Lestari, A. S., Muzani, M., & Setiawan, C. (2023). Mitigasi Bencana Tsunami Pantai Pangandaran, Jawa Barat. *JPIG (Jurnal Pendidikan Dan Ilmu Geografi)*, *8*(1), 55-62.

Levon, V., Asryan. (2022). Coastal Settlement Vulnerability on Risk of Abrasion Disaster. *International Handbook of Disaster Research,* 1-19. doi: 10.1007/978-981-16-8800-3_194-1

López-Dóriga, U., & Jiménez, J. A. (2020). Impact of relative sea-level rise on low-lying coastal areas of catalonia, nw mediterranean, spain. *Water (Switzerland)*, *12*(11). https://doi.org/10.3390/w12113252

López-Olmedilla, L., Almeida, L. P., de Figueiredo, S. A., Fontán-Bouzas, Á., Silva, P. A., & Alcántara-Carrió, J. (2022). Effect of alongshore sediment supply gradients on projected shoreline position under sea-level rise (northwestern Portuguese coast). *Estuarine, Coastal and Shelf Science*, *271*. https://doi.org/10.1016/j.ecss.2022.107876

Magnan, A. K., Oppenheimer, M., Garschagen, M., Buchanan, M. K., Duvat, V. K. E., Forbes, D. L., Ford, J. D., Lambert, E., Petzold, J., Renaud, F. G., Sebesvari, Z., van de Wal, R. S. W., Hinkel, J., & Pörtner, H. O. (2022). Sea

UNIVERSITAS
GADJAH MADA
Pengelolaan Pesisir Berdasarkan Analisis Multibahaya Di Wilayah Kepesisiran Pulau Weh Sabang
M. Rauzan, Prof. Dr. Djati Mardiatno, M.Si.; Dr. Nurul Khakhim, M.Si.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

level rise risks and societal adaptation benefits in low-lying coastal areas. *Scientific Reports*, *12*(1). https://doi.org/10.1038/s41598-022-14303-w

Marfai, M. A. (2019). *Pengantar etika lingkungan dan Kearifan lokal*. Ugm Press.

Marfai, M. A., Mardiatno, D., Cahyadi, A., Nucifera, F., & Prihatno, H. (2017). Pemodelan spasial bahaya banjir rob berdasarkan skenario perubahan iklim dan dampaknya di pesisir Pekalongan. *Jurnal Bumi Lestari*, *13*(2), 244-256.Marfai, M. A., Fatchurohman, H., & Cahyadi, A. (2020). *Pesisir gunungkidul*. UGM PRESS.

Marfai, M. A., Mardiatno, D., Wibowo, A. A., Utami, N. D., Jihad, A., Sudarno, A., & Lubis, N. A. Z. (2021). *Kajian pengelolaan pesisir berbasis ekowisata di Kepulauan Karimunjawa*. Ugm Press.

Marfai, M. A., Rahayu, E., & Triyanti, A. (2018). *Peran Kearifan Lokal Dan Modal Sosial Dalam Pengurangan Risiko Bencana Dan Pembangunan Pesisir:(Integrasi Kajian Lingkungan, Kebencanaan, dan Sosial Budaya)*. Ugm Press.

Masselink, G., Russell, P., Rennie, A., Brooks, S., & Spencer, T. (2020). Impacts of climate change on coastal geomorphology and coastal erosion relevant to the coastal and marine environment around the UK. *MCCIP Science Review*, 158–189. https://doi.org/10.14465/2020.arc08.cgm

McMullen, C. P., & Jabbour, J. (2009). *Climate Change Science Compendium 2009*.

Medwedeff, W. G., Clark, M. K., Zekkos, D., West, A. J., & Chamlagain, D. (2022). Near-Surface Geomechanical Properties and Weathering Characteristics Across a Tectonic and Climatic Gradient in the Central Nepal Himalaya. *Journal of Geophysical Research: Earth Surface*, *127*(2). https://doi.org/10.1029/2021JF006240

Mengyu, Ma., Ye, Wu., Luo, Chen., Jun, Li., Ning, Jing. (2019). Interactive and Online Buffer-Overlay Analytics of Large-Scale Spatial Data. *ISPRS international journal of geo-information,* *8*(1):21-. doi: 10.3390/IJGI8010021

Micallef, S., Micallef, A., & Galdies, C. (2018). Application of the Coastal Hazard Wheel to assess erosion on the Maltese coast. *Ocean and Coastal*

UNIVERSITAS
GADJAH MADA
Pengelolaan Pesisir Berdasarkan Analisis Multibahaya Di Wilayah Kepesisiran Pulau Weh Sabang
M. Rauzan, Prof. Dr. Djati Mardiatno, M.Si.; Dr. Nurul Khakhim, M.Si.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Management, *156*, 209–222. https://doi.org/10.1016/j.ocecoaman.2017.06.005

Mokoginta, E. Y. (2019). Pengaturan Indonesia Tentang Upaya Pengelolaan Dan Pengamanan Pulau-Pulau Terluar. *Lex Et Societatis*, *7*(3).

Munana, N., Pribadi, R., & Suryono, C. A. (2023). Vulnerability Assessment of Mangroves using the Coastal Vulnerability Index in Timbulsloko Village, Sayung, Demak. *Jurnal Kelautan Tropis*, *26*(3), 565–570. https://doi.org/10.14710/jkt.v26i3.20156

Murdiastuti, A., & Rohman, H. (2014). Kebijakan pengembangan pariwisata berbasis democratic governance.

Musa, R., & Mallombasi, A. (2025). Kajian Sistem Drainase Sebagai Pengendali Genangan Air (Studi Kasus Kota Aimas Kabupaten Sorong). *Jurnal TESLINK: Teknik Sipil Dan Lingkungan*, *7*(1), 180-192.

Mustain, M., & Sujantoko. (2021). Simple Analysis of Determination of Tidal Types of Sea Water: A Case Study in Lamong Bay Waters, East Java. *Ocean Engineering Technology and Innovation Conference*, 1–5.

Mutaqin, B. W., Marfai, M. A., Handayani, W., Tyas, D. W., Alwi, M., Hilmansyah, A. & Isnain, M. N. (2022). *Metode Deteksi Potensi Bencana Pulau-Pulau Kecil*. PT Kanisius.

Najmi, N., Boer, M., & Yulianda, F. (2016). Coral Reef Ecosystem Management in Area of Eastern Coastal Water Conservation Weh Island Sabang. *Jurnal Ilmu Dan Teknologi Kelautan Tropis*, *8*(2), 781-790.

Naziah, A., Ismail, N., Zaini, N., & Nanda, M. (2021). Delineasi Patahan di Pulau Weh sebagai Perpanjangan The Great Sumatran Fault (GSF) Berdasarkan Data Metode Geomagnetik. *Jurnal Teori dan Aplikasi Fisika*, 237-244.

Nicholls, R. J., Wong, P. P., Burkett, V., Codignotto, J., Hay, J., McLean, R., Ragoonaden, S., Woodroffe, C. D., Abuodha, P., Dronkers, J., Wong, P., Burkett, V., Codignotto, J., Hay, J., McLean, R., Ragoonaden, S., Woodroffe, C., Parry, M., Canziani, O., … Hanson, C. (2007). *Coastal systems and low-lying areas Coordinating Lead Authors: Lead Authors: Contributing Authors: This chapter should be cited as*.

Ningsih, R. L., & Mutaqin, B. W. (2023). Multi-hazard assessment under climate

UNIVERSITAS
GADJAH MADA
Pengelolaan Pesisir Berdasarkan Analisis Multibahaya Di Wilayah Kepesisiran Pulau Weh Sabang
M. Rauzan, Prof. Dr. Djati Mardiatno, M.Si.; Dr. Nurul Khakhim, M.Si.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

change in the aerotropolis coastal city of Kulon Progo, Yogyakarta – Indonesia. *Journal of Coastal Conservation*, *28*(1), 5. https://doi.org/10.1007/s11852-023-01015-0

Nugraha, A. (2024). Pemanfaatan dan Pembangunan Pulau-Pulau Kecil Terluar Sebagai Strategi Memperkuat Pertahanan dan Keamanan Serta Kedaulatan Maritim. *Simbur Cahaya*, *30*(2), 272-300.

Nusantara, S. D., Muhammad, F. ., Maryono, M., & Rahman Halim, M. A. . (2023). Coastal Area Management Challenges In Halmahera Selatan District. *Indonesian Journal Of Fisheries Community Empowerment*, *3*(2), 216–225. Https://Doi.Org/10.29303/Jppi.V3i2.2539

Palpanabhan, K. B., Moorthy, P., Tune, U., Muthusankar, G., & Chokkalingam, L. (2023). Coastal vulnerability assessment for southeast coast of India using Coastal Hazard Wheel. *Disaster Advances*, *17*(2), 23-30.

Panda, G. K., Mishra, M., & Chatterjee, U. (2023). Risk assessment of coastal erosion for Odisha coast along Bay of Bengal, India using coastal hazard wheel model. *GeoJournal*, *88*, 109–134. https://doi.org/10.1007/s10708-021-10552-w

Pannozzo, N., Leonardi, N., Carnacina, I., & Smedley, R. K. (2023). Storm sediment contribution to salt marsh accretion and expansion. *Geomorphology*, *430*(6), 108670. https://doi.org/https://doi.org/10.1016/j.geomorph.2023.108670

Pasaribu, R. A., Ratna Suhita, N. P. A., Gumilar, G., Choiriyah, N., Siregar, R. R., & Yonatika, N. O. (2023). Sea level rise implication on small islands in Kepulauan Seribu, Jakarta. *IOP Conference Series: Earth and Environmental Science*, *1251*(1).

Paul, S., & Das, C. S. (2021). Delineating the coastal vulnerability using Coastal Hazard Wheel: A study of West Bengal coast, India. *Regional Studies in Marine Science*, *44*, 101794.

Pemkot Sabang. (2012). *Rencana Tata Ruang Wilayah Kota Sabang*.

Peniwidiyanti, & Ashari, R. (2018). Hemiepifit Ficus spp. (Moraceae) di Pulau Weh, Kota Sabang, Provinsi Aceh, Indonesia. *Pros Sem Nas Masy Biodiv Indo*, *4*(2), 215–219. https://doi.org/10.13057/psnmbi/m040220

UNIVERSITAS
GADJAH MADA
Pengelolaan Pesisir Berdasarkan Analisis Multibahaya Di Wilayah Kepesisiran Pulau Weh Sabang
M. Rauzan, Prof. Dr. Djati Mardiatno, M.Si.; Dr. Nurul Khakhim, M.Si.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Pinem, M., Sugiharto, S., Lubis, D. P., & Rahmadi, M. T. (2021). Analisis Hambatan Pengelolaan Halal Tourism Di Pulau Weh Sabang. *Geography: Jurnal Kajian, Penelitian Dan Pengembangan Pendidikan*, *9*(2), 91-101.

Pone, R. D., Arman, Y., Lado, C. D. D., & Patty, M. B. (2024). Pengaturan Pulau-Pulau Terluar Sebagai Batas Wilayah Negara Terluar Republik Indonesia. *Humanitis: Jurnal Homaniora, Sosial Dan Bisnis*, *2*(8), 828- 837.

Purnama, S. (2019). *Air tanah dan intrusi air laut*. PT Kanisius.

Putri, I. W., Musahib, A. R., Ali, M. M., Utomo, J., Arsyad, & D. H., Darmawati, D. (2023). *Pesisir Dan Masyarakat Pesisir*. Penerbit Widina.

Rahardi, W., & Suhardi, R. M. (2016). Keanekaragaman hayati dan jasa ekosistem mangrove di Indonesia. In *Prosiding Symbion (Symposium on Biology Education)* (Vol. 2013, pp. 499-510).

Rahmadi, M. T., Sugiharto, S., Pinem, M., & Suciani, A. (2021). Analysis of the utilization of landsat 8 oli imagery for mapping the distribution of coral reefs in Pulau Weh Sabang. *Depik*, *10*(2), 161–166. https://doi.org/10.13170/depik.10.2.20966

Rahmania, R., Kusumaningrum, P. D., Chandra, H., Sianturi, D. S., Firdaus, Y., Akhwady, & Arifudin, L. O. (2021). Overview of existing waste processing techniques in small islands of pulo aceh, seribu, karimunjawa and wakatobi. *IOP Conference Series: Earth and Environmental Science,* 925(1), 012023.

Rahmawan, G. A., Ondara, K., & Adnan, I. (2021). Pemetaan Morfologi Dasar Perairan Untuk Pemantauan Sedimentasi Di Dermaga Perikanan Ulee Lheu Menggunakan Single Beam Odometer Dua Frekuensi. *Jurnal Kelautan: Indonesian Journal of Marine Science and Technology*, *14*(2), 143–148. https://doi.org/10.21107/jk.v14i2.10317

Rajawat, A. S., Chauhan, H. B., Ratheesh, R., Rhode, S., Bhanderi, R. J., Mahapatra, M., Kumar, M., Yadav, R., Abraham, S. P., Singh, S. S., Keshri, K. N., & Ajai. (2014). Assessment of coastal erosion along indian coast on 1:25, 000 scale using satellite data. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, *XL–8*(1), 119–125. https://doi.org/10.5194/isprsarchives-XL-8-119-2014

UNIVERSITAS
GADJAH MADA
Pengelolaan Pesisir Berdasarkan Analisis Multibahaya Di Wilayah Kepesisiran Pulau Weh Sabang
M. Rauzan, Prof. Dr. Djati Mardiatno, M.Si.; Dr. Nurul Khakhim, M.Si.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Ratnawati, H. I., Purbani, D., & Jayawiguna, M. H. (2023). Estimasi Neraca Air Tanah di Pulau Karimunjawa yang Dipengaruhi Kondisi Hidro-Meteorologi Laut Jawa. *Jurnal Kelautan Nasional*, *18*(3), 181-194.

Regard, V., Prémaillon, M., Dewez, T., Carretier, S., Jeandel, C., Godderis, Y., Bonnet, S., Schott, J., Pedoja, K., & Martinod, J. (2022). Rock coast erosion: an overlooked source of sediments to the ocean. Europe as an example. *Earth and Planetary Science Letters*, *579*, 1–22. https://doi.org/10.1016/j.epsl.2021.117356ï

Romagnoli, C., Bosman, A., Casalbore, D., Anzidei, M., Doumaz, F., Bonaventura, F., Meli, M., & Verdirame, C. (2022). Coastal Erosion and Flooding Threaten Low-Lying Coastal Tracts at Lipari (Aeolian Islands, Italy). *Remote Sensing*, *14*(13). https://doi.org/10.3390/rs14132960

Sakti, W. (2023). Peran masyarakat sipil dalam pengelolaan lingkungan pesisir. *Jurnal Kelautan Dan Perikanan Terapan (Jkpt)*, 1, 87. https://doi.org/10.15578/jkpt.v1i0.12058

Saleh, M., Kamaruzzaman, K., & Desky, H. (2022). Pengembangan Wisata Islami: Strategi Pemasaran Wisata Halal di Bumi Syariah. *Owner: Riset dan Jurnal Akuntansi*, *6*(2), 1221-1238.

Salim, M. A. (2018). Penanganan banjir dan rob di wilayah Pekalongan. *Jurnal Teknik Sipil*, *11*, 15-23.

Sambu, A. H., Pi, S., Sribianti, I., Chadijah, A., & Pi, S. (2018). *Model pengelolaan mangrove berbasis ekologi dan ekonomi*. Penerbit Inti Mediatama.

Sari, D. A. A., & Muslimah, S. (2014). Kebijakan pengelolaan pulau-pulau kecil terluar Indonesia dalam menghadapi perubahan iklim global. *Yustisia*, *3*(3), 57-72.

Scambos, T. & Moon, T. (2022). How is land ice changing in the Arctic, and what is the influence on sea level?. Arctic, *Antarctic, and Alpine Research, 54*(1):200-201.

Setiady, D., & Sarmili, L. (2015). Accretion And Abrasion Processes Based On Coastal Characteristics Mapping And Wave Data In Pelabuhan Ratu And Ciletuh Bays, Sukabumi Regency, West Java Province. *Jurnal Geologi Kelautan*, *13*(1), 37–47.

UNIVERSITAS
GADJAH MADA
Pengelolaan Pesisir Berdasarkan Analisis Multibahaya Di Wilayah Kepesisiran Pulau Weh Sabang
M. Rauzan, Prof. Dr. Djati Mardiatno, M.Si.; Dr. Nurul Khakhim, M.Si.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Setiawan, I., Rizal, S., Haditiar, Y., Ilhamsyah, Y., Purnawan, S., Irham, S., & Yuni, M. (2018). Study of current circulation in the Northern Waters of Aceh. *IOP Conf. Series: Earth and Environmental Science*. https://doi.org/10.1088/1755-1315/176/1/012016

Setiyono, H., Sugianto, D. N., Helmi, M., Handoyo, G., Pratikto, I., & Ario, R. (2023). Rob analysis on the coast of Semarang City (Central Java, Indonesia) on May 23, 2022 based on tidal data and inundation distribution. *EPH-International Journal of Agriculture and Environmental Research*, *9*(1), 23-28.

Setyawan, D., Nugraha, A. L., & Sudarsono, B. (2018). Analisis potensi desa berbasis sistem informasi geografis (studi kasus: Kelurahan Sumurboto, Kecamatan Banyumanik, Kabupaten Semarang). *Jurnal Geodesi Undip*, *7*(4), 1-7.

Setyowati, D., Nurcahyo, M. A., Afryaningsih, Y., Fatmawati, R. A., & Didik, D. (2023). Pemanfaatan hutan mangrove sebagai pendidikan dasar lingkungan hidup. *Jurnal Pengabdian Masyarakat Bangsa*, *1*(6), 530-537.

Smith, D. J., & Rodríguez, B. (2021). Turning the wheel away from biophysical indicators in coastal zone management: Towards a stakeholder-based systemic framework. *Ecological Indicators*, *125*, 107527.

Sprintall, J., Gordon, A. L., Koch-Larrouy, A., Lee, T., Potemra, J. T., Pujiana, K., & Wijffels, S. E. (2014). The Indonesian seas and their role in the coupled ocean-climate system. *Nature Geoscience*, *7*(7), 487–492. https://doi.org/10.1038/ngeo2188

Su, Q., Li, Z., Li, G., Zhu, D., & Hu, P. (2021). Application of the coastal hazard wheel for coastal multi-hazard assessment and management in the Guang-Fong-Hongkong-Macao greater bay area. *Sustainability (Switzerland)*, *13*(22).

Su, Q., Li, Z., Li, G., Zhu, D., & Hu, P. (2021). Application of the coastal hazard wheel for coastal multi-hazard assessment and management in the Guang-Fong-Hongkong-Macao greater bay area. *Sustainability (Switzerland)*, *13*(22), 1–15. https://doi.org/10.3390/su132212623

Subagiyo, A., Wijayanti, W. P., & Zakiyah, D. M. (2017). *Pengelolaan wilayah*

UNIVERSITAS
GADJAH MADA
Pengelolaan Pesisir Berdasarkan Analisis Multibahaya Di Wilayah Kepesisiran Pulau Weh Sabang
M. Rauzan, Prof. Dr. Djati Mardiatno, M.Si.; Dr. Nurul Khakhim, M.Si.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

pesisir dan pulau-pulau kecil. Universitas Brawijaya Press.

Sudiarta, I. I. K., Situmeang, I. Y. P., & Suryani, S. A. M. P. (2024). *Pengelolaan Pesisir Terpadu*. Scopindo Media Pustaka.

Sulaiha, F., Handoko, E. Y., & Yuwono, Y. (2020). Studi variasi permukaan laut jawa dan laut china selatan tahun 2002-2019 menggunakan data altimetri jason. *Geoid, 15*(2), 172.

Supuwiningsih, N. N., & Rusli, M. T. (2020). *Sistem Informasi Geografis: Konsep Dasar & Implementasi*. Penerbit Andi.

Suryanti, N. M. W. A., & Marfai, M. A. (2016). Analisis multibahaya di wilayah pesisir Kabupaten Demak. *Jurnal Bumi Indonesia*, *5*(2).

Sutrisno, E. (2014). Implementasi pengelolaan sumber daya pesisir berbasis pengelolaan wilayah pesisir secara terpadu untuk kesejahteraan nelayan (Studi di perdesaan nelayan Cangkol Kelurahan Lemahwungkuk Kecamatan Lemahwungkuk Kota Cirebon). *Jurnal Dinamika Hukum*, *14*(1), 1-12.

Tenri, A., Santoso, B., & Setiyono, D. J. (2022). *Juridical Review of the Authority of Local Governments in Management of Coastal Areas and Small Islands.SSRN 4223916*.

Tian, P., Li, J., Cao, L., Pu, R., Gong, H., Liu, Y., Zhang, H., & Chen, H. (2021). Impacts of reclamation derived land use changes on ecosystem services in a typical gulf of eastern China: A case study of Hangzhou bay. *Ecological Indicators, 132*, 108259. https://doi.org/10.1016/j.ecolind.2021.108259

Tosi, L., Da Lio, C., Bergamasco, A., Cosma, M., Cavallina, C., Fasson, A., Viezzoli, A., Zaggia, L., & Donnici, S. (2022). Sensitivity, Hazard, and Vulnerability of Farmlands to Saltwater Intrusion in Low-Lying Coastal Areas of Venice, Italy. *Water (Switzerland)*, *14*(1), 1–23. https://doi.org/10.3390/w14010064

Ulfah, M., Zahra, A., Ocatvina, C., Ramadhaniaty, M., & Khairunnisa, K. (2024). Kondisi Foraminifera Bentik Sebagai Bioindikator Pada Ekosistem Terumbu Karang Di Kawasan Konservasi Perairan Pesisir Timur Pulau Weh, Sabang, Aceh, Indonesia. *Jurnal Kelautan Tropis*, *27*(2), 323-332.

Utami, W. (2021). Analisis Rencana Tata Ruang Wilayah Pada Pesisir Rawan

UNIVERSITAS
GADJAH MADA
Pengelolaan Pesisir Berdasarkan Analisis Multibahaya Di Wilayah Kepesisiran Pulau Weh Sabang
M. Rauzan, Prof. Dr. Djati Mardiatno, M.Si.; Dr. Nurul Khakhim, M.Si.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Tsunami (Studi Pesisir Aceh, Banten dan Palu). *Tataloka, 23*(4), 479-495.

Verstappen, H. T. (2013). *Garis besar geomorfologi Indonesia: studi kasus dalam geomorfologi tropis wilayah tektogen : dilengkapi dengan peta geomorfologi skala 1:5.000.000*. Gadjah Mada University Press.

Wahyudi, H. A. A., Haditiar, Y., Ikhwan, M., Wafdan, R., Setiawan, I., Muhammad, M., Sugianto, S., & Rizal, S. (2019). Numerical study of tides in the Bay of Sabang. *IOP Conference Series: Earth and Environmental Science*, *348*(1). https://doi.org/10.1088/1755-1315/348/1/012096

Wekke, I. S. (2021). *Mitigasi Bencana*. Penerbit Adab.

Weston, N. B., Rodriguez, E., Donnelly, B., Solohin, E., Jezycki, K., Demberger, S., Sutter, L. A., Morris, J. T., Neubauer, S. C., & Craft, C. B. (2023). Recent Acceleration of Wetland Accretion and Carbon Accumulation Along the U.S. East Coast. *Earth's Future*, *11*(3), 1–14. https://doi.org/10.1029/2022EF003037

Wibowo, B. A., Bambang, A. N., Pribadi, R., Setiyanto, I., Prihantoko, K. E., & Sutanto, H. A. (2022). Strategi Pengelolaan Kawasan Pesisir di Pasar Banggi Kabupaten Rembang dengan Pendekatan Analytical Hierarchy Process (AHP). *Jurnal Kelautan Tropis*, *25*(2), 191-201.

Widantara, K. W., & Mutaqin, B. W. (2024). Multi-hazard assessment in the coastal tourism city of Denpasar, Bali, Indonesia. *Natural Hazards*, *120*(8), 7105–7138.

Widya, T. (2023). *Panduan Praktis Mengatasi Erosi Pantai*. Diva Press.

Wisha, U. J., & Ilham. (2020). Hydrodynamics Sabang Bay and Its Influence on Near Shore Sediment Transport, Weh Island, Indonesia. *Jurnal Segara*, *16*(2), 125–136. https://doi.org/10.15578/segara.v16i2.8980

Wisha, U. J., Tanto, T. Al, Ridwan, N. N. H., & Dhiauddin, R. (2019). Fluktuasi Suhu Permukaan Laut dan Kematian Karang di Pulau Weh, Indonesia. *Jurnal Kelautan Nasional*, *14*(2), 103–112. https://doi.org/10.15578/jkn.v14i2.6979

Wu, S., Lu, Y., & Fang, H. (2022). Evolution process of land reclamation in Macao and its impact on economy and ecology. *Proceedings of the 2022 7th 120 International Conference on Financial Innovation and Economic*

UNIVERSITAS
GADJAH MADA
Pengelolaan Pesisir Berdasarkan Analisis Multibahaya Di Wilayah Kepesisiran Pulau Weh Sabang
M. Rauzan, Prof. Dr. Djati Mardiatno, M.Si.; Dr. Nurul Khakhim, M.Si.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Development (ICFIED 2022), 3067–3076.

Xie, D., Schwarz, C., Kleinhans, M. G., Zhou, Z., & van Maanen, B. (2022). Implications of Coastal Conditions and Sea-Level Rise on Mangrove Vulnerability: A Bio-Morphodynamic Modeling Study. *Journal of Geophysical Research: Earth Surface*, *127*(3), 1–28. https://doi.org/10.1029/2021JF006301

Yanis, M., Marwan, M., & Ismail, N. (2019). Efficient use of satellite gravity anomalies for mapping the great Sumatran fault in Aceh Province. *Indonesian Journal of Applied Physics*, *9*(02), 61-67.

Zhang, Y., Ouyang, Z., Xu, C., Wu, T., & Lu, F. (2024). A multi-hazard framework for coastal vulnerability assessment and climate-change adaptation planning. *Environmental and Sustainability Indicators*, *21*.

Zikri, M. (2022). *Analisis Strategi Pengembangan Kawasan Pesisir Berdasarkan Konsep Waterfront City (Studi Kasus Kota Tanjungpinang)* (Doctoral dissertation, Universitas Islam Riau).