



DAFTAR PUSTAKA

- Allen, C. D. (2014). Why Fieldwork? *Developments in Earth Surface Processes*, 18(2006), 11–29. <https://doi.org/10.1016/B978-0-444-63402-3.00002-9>
- Ariffin, E. H., Sedrati, M., Akhir, M. F., Daud, N. R., Yaacob, R., & Husain, M. L. (2018). Beach morphodynamics and evolution of monsoon-dominated coasts in Kuala Terengganu, Malaysia: Perspectives for integrated management. *Ocean and Coastal Management*, 163 (July), 498–514. <https://doi.org/10.1016/j.ocecoaman.2018.07.013>
- Apriyana, D. (2017). Monitoring Perubahan Garis Pantai Dan Faktor-Faktor Yang Mempengaruhinya Di Wilayah Kepesisiran Kota Semarang. *Thesis*. Universitas Gadjah Mada
- Athanasiou, P., van Dongeren, A., Giardino, A., Voudoukas, M., Gaytan-Aguilar, S., & Ranasinghe, R. (2019). Global distribution of nearshore slopes with implications for coastal retreat. *Earth System Science Data Discussions*, 1–29. <https://doi.org/10.5194/essd-2019-71>
- Bacino, G. L., Dragani, W. C., Codignotto, J. O., & Farenga, M. O. (2020). *Estuarine , Coastal and Shelf Science Bay , Río de la Plata Shoreline change rates along Samboromb o estuary , Argentina*. 237(May 2019). <https://doi.org/10.1016/j.ecss.2020.106659>
- Badan Meteorologi Klimatologi dan Geofisika. (2019). *Prakiraan Hujan 2019/2020 di Indonesia*. Jakarta: Badan Meteorologi Klimatologi dan Geofisika
- Badan Meteorologi Klimatologi dan Geofisika. (2019). *Prakiraan Musim Kemarau 2019 di Indonesia*. Jakarta: Badan Meteorologi Klimatologi dan Geofisika
- Badan Pusat Statistik Demak. (2013). *Demak Dalam Angka 2013*. Badan Pusat Statistik Kabupaten Demak.



Badan Pusat Statisitk Demak. (2019). *Kabupaten Demak Dalam Angka 2019*.

Badan Pusat Statistik Kabupaten Demak.

Badan Pusat Statisitk Demak. (2020). *Kabupaten Demak Dalam Angka 2020*.

BPS Kabupaten Demak.

<http://library1.nida.ac.th/termpaper6/sd/2554/19755.pdf>

Bird, E. C. F. (2010). Encyclopedia of the World's Coastal Landforms. In *Springer* (Vol. 1). <https://doi.org/10.1080/00207233.2010.487649>

Coastal Engineering Research Center. (1984). *Shore Protection Manual Volume I*. Washington: Army Coastal Engineering Research Center.

Dean, R. G., & Dalrymple, R. A. (2004). *Coastal Processes with Engineering Applications*. Cambridge University Press.

Dolan, R., Fenster, M. S., & Holme, S. J. (1991). *Temporal Analysis of Shoreline Recession and Accretion Temporal Analysis of Shoreline Recession and*. 7(3), 723–744.

Ervita, K., & Marfai, M. A. (2017). Shoreline Change Analysis in Demak, Indonesia. *Journal of Environmental Protection*, 08(08), 940–955. <https://doi.org/10.4236/jep.2017.88059>

ESA. (2015). *Sentinel-2 User Handbook* (Nomor 1).

Esmail, M., Elham, W., & Fath, H. (2019). Assessment and prediction of shoreline change using multi-temporal satellite images and statistics : Case study of Damietta coast , Egypt. *Applied Ocean Research*, 82(March 2018), 274–282. <https://doi.org/10.1016/j.apor.2018.11.009>

Feyisa, G. L., Meilby, H., Fensholt, R., & Proud, S. R. (2014). Remote Sensing of Environment Automated Water Extraction Index : A new technique for surface water mapping using Landsat imagery. *Remote Sensing of Environment*, 140, 23–35. <https://doi.org/10.1016/j.rse.2013.08.029>



Gao, B. C. (1996). NDWI - A Normalized Difference Water Index for Remote Sensing of Vegetation Liquid Water From Space. *Remote Sens. Environ.*, 58, 257-266.

Gens, R. (2010). Remote sensing of coastlines : detection , extraction and monitoring. *International Journal of Remote Sensing*, 31, 1819–1836.
<https://doi.org/10.1080/01431160902926673>

Hendriyono, W., Wibowo, M., Hakim, B. Al, & Istiyanto, D. C. (2015). Modeling of Sediment Transport Affecting the Coastline Changes due to Infrastructures in Batang - Central Java. *Procedia Earth and Planetary Science*, 14, 166–178. <https://doi.org/10.1016/j.proeps.2015.07.098>

Herbers, T. H. C., Jessen, P. F., Janssen, T. T., Colbert, D. B., & MacMahan, J. H. (2012). Observing ocean surface waves with GPS-tracked buoys. *Journal of Atmospheric and Oceanic Technology*, 29(7), 944–959.
<https://doi.org/10.1175/JTECH-D-11-00128.1>

Irawan, A. M., Marfai, M. A., Nugraheni, I. R., Gustono, S. T., Rejeki, H. A., Widodo, A., Mahmudiah, R. R., & Faridatunnisa, M. (2021). Urban Climate Comparison between averaged and localised subsidence measurements for coastal floods projection in 2050 Semarang , Indonesia. *Urban Climate*, 35(May 2020), 100760. <https://doi.org/10.1016/j.uclim.2020.100760>

Jayakumar, K., & Malarvannan, S. (2016). Assessment of shoreline changes over the Northern Tamil Nadu Coast, South India using WebGIS techniques. *Journal of Coastal Conservation*, 20(6), 477–487.
<https://doi.org/10.1007/s11852-016-0461-9>

Kay, R., & Alder, J. (2005). *Coastal Planning and Management, Second Edition* (second). Taylor & Francis.

King, C. A. (1972). *Beach and Coast*. London: Edward Arnold.

Komar, P. D. (1976). *Beach Processes and Sedimentation*. New Jersey: Prentice-



Hall.

Lillesand, T. M., Kiefer, R. W., & Chipman, J. W. (2015). *Remote Sensing And Image Interpretation* (7 ed.). Wiley.

Liu, Y., Wang, X., Ling, F., Xu, S., & Wang, C. (2017). Analysis of coastline extraction from Landsat-8 OLI imagery. *Water (Switzerland)*, 9(11), 1–26.
<https://doi.org/10.3390/w9110816>

Maglione, P., Parente, C., & Vallario, A. (2015). High resolution satellite images to reconstruct recent evolution of domitian coastline. *American Journal of Applied Sciences*, 12(7), 506–515.
<https://doi.org/10.3844/ajassp.2015.506.515>

Marfai, M. A., Almohammad, H., Dey, S., Susanto, B., & King, L. (2008). Coastal dynamic and shoreline mapping: Multi-sources spatial data analysis in Semarang Indonesia. *Environmental Monitoring and Assessment*, 142(1–3), 297–308. <https://doi.org/10.1007/s10661-007-9929-2>

Marfai, M. A., Cahyadi, A., Krisnantara, G., & Gustiar, G. G. (2015). Karakteristik Hidrogeokimia Airtanah Di Pesisir Kabupaten Demak, Jawa Tengah. *Makalah dalam Seminar Nasional Pekan Ilmiah Tahunan Ikatan Geografi Indonesia Tahun 2015*.

Marfai, M. A., Purnama, I. L. S., Mardiatno, D., & Malawani, M. N. (2020). *Dinamika Pesisir Semarang-Demak Pemanfaatan Data Mini Wave Bouy dan Penginderaan Jauh*. Badan Penerbit Fakultas Geografi (BPFG).

Mcfeeters, S. K. (1996). The use of the Normalized Difference Water Index (NDWI) in the delineation of open water features. *International Journal of Remote Sensing*, 17(7), 1425–1432.
<https://doi.org/10.1080/01431169608948714>

Miccadei, E., Mascioli, F., Ricci, F., & Piacentini, T. (2019). Geomorphology Geomorphology of soft clastic rock coasts in the mid-western Adriatic Sea (



Abruzzo, Italy). *Geomorphology*, 324, 72–94.

<https://doi.org/10.1016/j.geomorph.2018.09.023>

Muskananfola, M. R., Supriharyono, & Febrianto, S. (2020). Spatio-temporal analysis of shoreline change along the coast of Sayung Demak, Indonesia using Digital Shoreline Analysis System. *Regional Studies in Marine Science*, 34, 101060. <https://doi.org/10.1016/j.rsma.2020.101060>

Nielsen, P. (2009). *Coastal and Estuarine Processes*. Singapura: World Scientific.

Pardo-Pascual, J. E., Sánchez-García, E., Almonacid-Caballer, J., Palomar-Vázquez, J. M., de los Santos, E. P., Fernández-Sarría, A., & Balaguer-Beser, Á. (2018). Assessing the accuracy of automatically extracted shorelines on microtidal beaches from landsat 7, landsat 8 and sentinel-2 imagery. *Remote Sensing*, 10(2), 1–20. <https://doi.org/10.3390/rs10020326>

Pemerintah Kabupaten Demak. (2011). *Rencana Pembangunan Jangka Menengah Daerah Kabupaten Demak Tahun 2011-2016*.

Penalba, M., Ulazia, A., Ibarra-Berastegui, G., Ringwood, J., & Sáenz, J. (2018). Wave energy resource variation off the west coast of Ireland and its impact on realistic wave energy converters' power absorption. *Applied Energy*, 224(November 2017), 205–219.
<https://doi.org/10.1016/j.apenergy.2018.04.121>

Pethick, J. (1984). *An Introduction to Coastal Geomorphology*. London: Edward Arnold (Publisher).

Pranoto, H. R., Atmodjo, W., & S, D. N. (2016). Studi Sedimentasi Pada Bangunan Groin Di Perairan Timbulsloko, Kabupaten Demak. *Journal of Oceanography*, 5(1), 86 - 95.
<https://ejournal3.undip.ac.id/index.php/joce/article/view/10512>

Putri, D. R., Sukmono, A., & Sudarsono, B. (2018). Analisis Kombinasi Citra Sentinel-1a Dan Citra Sentinel-2a Untuk Klasifikasi Tutupan Lahan (Studi



Kasus: Kabupaten Demak, Jawa Tengah). *Jurnal Geodesi Undip*, 7(2), 85–96.

Richard. (2015). Perubahan Garis Pantai Dan Kerusakan Pantai Di Kawasan kepesisiran Kabupaten Tuban Bagian Barat. *Thesis*. Universitas Gadjah Mada

Santosa, L. W., & Muta'ali, L. (2014). *Bentang Alam dan Bentang Budaya*. Yogyakarta: Badan Penerbit Fakultas Geografi (BPFG) UGM.

Sari, R., & Bijker, W. (2020). The Egyptian Journal of Remote Sensing and Space Sciences Dynamics of shoreline changes in the coastal region of Sayung , Indonesia. *The Egyptian Journal of Remote Sensing and Space Sciences*, 23(2), 181–193. <https://doi.org/10.1016/j.ejrs.2019.09.001>

Septiangga, B. (2017). Analisis Morfodinamika Wilayah Kepesisiran Muara Delta Wulan Dan Sekitarnya Tahun 1995-2015. *Thesis*.Universitas Gadjah Mada

Sharma, S., Paul, A., Mitra, D. et al. Semi-automated Workflow for Mapping the Extent and Elevation Profile of Intertidal Zone of Parts of Gulf of Kutch, India, Using Landsat Time Series Data. *J Indian Soc Remote Sens* 49, 1343–1363 (2021). <https://doi.org/10.1007/s12524-020-01291-5>

Sun, F., Sun, W., Chen, J., & Gong, P. (2012). Comparison and improvement of methods for identifying waterbodies in remotely sensed imagery. *International Journal of Remote Sensing*, 31, 6854–6875.

Sunamura, T. (2015). *Rocky coast processes: with special reference to the recession of soft rock cliffs*. 91(9), 481–500.

Sunarto. (2001). *Geomorfologi kepesisiran dan perannya dalam pembangunan nasional Indonesia : Pidato Pengukuhan Jabatan Lektor Kepala Fakultas Geografi UGM*. Yogyakarta: Fakultas Geografi UGM.

Supriyadi, E. (2019). Pemanfaatan Satelit Altimetri Untuk Verifikasi Tinggi Gelombang Laut Signifikan Pada Ocean Forecast System (OFS) – BMKG. *Jurnal Meteorologi dan Geofisika*, 93–102.



- Thakur, S., Mondal, I., Bar, S., Nandi, S., Ghosh, P. B., Das, P., & De, T. K. (2020). Shoreline changes and its impact on the mangrove ecosystems of some islands of Indian Sundarbans , North-East coast of India. *Journal of Cleaner Production*, 284. <https://doi.org/10.1016/j.jclepro.2020.124764>
- The, C. L., The, J. L., & Johnson, M. A. (2016). *WRPLOT View Wind and Rain Rose Plots for Meteorological Data*.
- Thieler, E. R., Himmelstoss, E. A., Zichichi, J. L., Ergul, & Ayhan. (2017). *DSAS 4.0 Installation Instructions and User Guide*. US Geological Survey.
- United Nations. (2017). Ocean fact sheet package. The Ocean Conference (p. 1). New York: United Nations.
- U.S. Geological Survey. (2016). Landsat 8 Data Users Handbook. *Nasa*, 8(June), 97. <https://landsat.usgs.gov/documents/Landsat8DataUsersHandbook.pdf>
- U.S. Geological Survey. (2018). *Landsat Collections*. Reston: USGS Publication Warehouse.
- USGS. (2016). *Landsat — Earth Observation Satellites Landsat Missions : Imaging the Earth Since 1972* (Nomor August 2016).
- Utami, W. S., Subardjo, P., & Helmi, M. (2017). Studi Perubahan Garis Pantai Akibat Kenaikan Muka Air Laut Di Kecamatan Sayung, Kabupaten Demak. *Journal of Oceanography*, 6(1), 281 - 287. <https://ejournal3.undip.ac.id/index.php/joce/article/view/16206>
- Wang, X., Xie, S., Zhang, X., Chen, C., Guo, H., Du, J., & Duan, Z. (2018). Int J Appl Earth Obs Geoinformation A robust Multi-Band Water Index (MBWI) for automated extraction of surface water from Landsat 8 OLI imagery. *Int J Appl Earth Obs Geoinformation*, 68(January), 73–91. <https://doi.org/10.1016/j.jag.2018.01.018>
- Wicaksono, A., & Wicaksono, P. (2019). Akurasi geometri garis pantai hasil



transformasi indeks air pada berbagai penutup lahan di Kabupaten Jepara.

Majalah Geografi Indonesia, 33(1), 86. <https://doi.org/10.22146/mgi.36948>

Wicaksono, A., & Winastuti, R. (2019). Kajian Morfodinamika Pesisir dan Kerawanan Abrasi Di Kabupaten Buleleng , Provinsi Bali. *Seminar Nasional Pengelolaan Pesisir dan Daerah Aliran Sungai K-5.*

Xu, H. (2006). Modification of normalised difference water index (NDWI) to enhance open water features in remotely sensed imagery. *International Journal of Remote Sensing, 27*, 3025–3033.
<https://doi.org/10.1080/01431160600589179>

Yamano, H., Shimazaki, H., Matsunaga, T., Ishoda, A., McClenen, C., Yokoki, H., Fujita, K., Osawa, Y., & Kayanne, H. (2006). Evaluation of various satellite sensors for waterline extraction in a coral reef environment: Majuro Atoll, Marshall Islands. *Geomorphology, 82*(3–4), 398–411.
<https://doi.org/10.1016/j.geomorph.2006.06.003>

Yun, L.S., Saengsupavanich, C., Ariffin, E.F., Rashidi, A.H.M. (2023). The morphodynamics of wave on a monsoon-dominated coasts: West coast of GoT. *Regional Studies in Marine Science, 57*.
<https://doi.org/10.1016/j.rsma.2022.102729>.

Zahra, A. R. (2019). Karakteristik Hidrodinamika Pantai Terhadap Perkembangan Bura (Spit) di Muara Delta Wulan, Kabupaten Demak. *Thesis*. Universitas Gadjah Mada

Zhu, X. (2016). *GIS for Environmental Applications* (First). Routledge.

Zollini, S., Alicandro, M., Cuevas-González, M., Baiocchi, V., Dominici, D., & Buscema, P. M. (2020). Shoreline extraction based on an active connection matrix (ACM) image enhancement strategy. *Journal of Marine Science and Engineering, 8*(1). <https://doi.org/10.3390/jmse8010009>