

REFERENCES

- Abdurrahman, U., H. Park & T. Suprijo, 2021. "Study of shoreline evolution under the influence of jetty construction: A case study of Karangsong Beach, Indramayu, Indonesia". *IOP Conference Series: Earth and Environmental Science* **698**(1), 012038. doi: 10.1088/1755-1315/698/1/012038.
- Bahmanpouri, F., A. Yadavi, C. Massari, D.D. Santis, A. Sharma, A. Agarwal, S. Sen, L. Fraccarollo, T. Moramarco & S. Barbeta, 2024. "Application of the entropy model to estimate flow discharge and bed load transport with limited field measurements". *Water* **16**(24), 3684. doi: 10.3390/w16243684
- Bertoni, D., M. Bini, M. Luppichini, L.E., Cipriani, A. Carli & G. Sarti, 2021. "Anthropogenic impact on beach heterogeneity within a littoral cell (Northern Tuscany, Italy)". *Journal of Marine Science and Engineering* **9**(2), 151. doi: 10.3390/jmse9020151.
- BIG, 2024a. "Geospasial untuk Negeri (Geospatial for the Nation)". *Geospatial Information Agency*. Accessed: Sep. 09, 2024. [Online]. Available: <https://tanahair.indonesia.go.id/>.
- BIG, 2024b. "Geospasial untuk Negeri (Geospatial for the Nation)". *Geospatial Information Agency*. Accessed: Sep. 09, 2024. [Online]. Available: <https://www.big.go.id/content/produk/demnas>.
- BWSSV, 2024. "Batang Arau AWLR". *Sumatera V River Basin Agency*. Accessed: Sep. 09, 2024. [Online]. Available: <https://bwssumatera5.higertech.com/>.
- Copernicus, 2024a. "Climate reanalysis". *Climate Change Service*. Accessed: Sep. 09, 2024. [Online]. Available: <https://climate.copernicus.eu/climate-reanalysis>.
- Copernicus, 2024b. "ERA5 hourly data on single levels from 1940 to present". *Climate Data Store*. Accessed: Sep. 09, 2024. [Online]. Available: <https://cds.climate.copernicus.eu/datas>.
- DHI, 2007. *MIKE 21 Wave modelling*. Denmark, 16p.
<https://www.dhigroup.com/upload/dhisoftwarearchive/shortdescriptions/marine/SpectralWaveModuleMIKE21SW.pdf>.

- Finotello, A., A. Canestrelli, L. Carniello, M. Ghinassi & A. D'Alpaos, 2019. "Tidal Flow Asymmetry and Discharge of Lateral Tributaries Drive the Evolution of a Microtidal Meander in the Venice Lagoon (Italy)". *JGR Earth Surface* **124**(12), 3043-3066. doi: 10.1029/2019JF005193
- Google Earth, 2025a. Padang Beach Floodway in 2006. Accessed: April 12, 2025. [Online] Available at: <https://earth.google.com/>
- Google Earth, 2025b. Padang Beach Floodway in 2024. Accessed: April 12, 2025. [Online] Available at: <https://earth.google.com/>
- Guo, L., M. Brand, B.F. Sanders, E. Foufoula-Georgiou & E.D. Stein, 2018. "Tidal asymmetry and residual sediment transport in a short tidal basin under sea level rise". *Advances in Water Resources* **121**, 1-8. doi: 10.1016/j.advwatres.2018.07.012
- Jiang, C.H., Z. Zhou, I.H. Townend, L.C. Guo, Y.Z. Wei, F. Luo & C.K. Zhang, 2024. "Modelling the impact of sediment composition on long-term estuarine morphodynamics". *Coastal Engineering* **193**, 104595. doi: 10.1016/j.coastaleng.2024.104595
- Kusuma, M.D., M.B. Adityawan & A.N. Chaidar, 2018. "Effect of Jetty to the Capacity of Bogowonto River Mouth, Kulon Progo Daerah Istimewa Yogyakarta". *Jurnal Teknik Sipil ITB* **30**(1), 17-24, doi: 10.5614/jts.2023.30.1.3.
- Lai, Y.G., 2024. "An Integrated Current-Wave-Sediment Model for Coastal and Estuary Simulation". *Water* **16**(3), 415. doi: 10.3390/w16030415
- Lawson, S.K., H. Tanaka, K. Udo, N.T. Hiep, N. Xuan & Tinh, 2022. "Assessment of River Mouth Variability after Jetty and Groyne Construction: A Case Study of the Volta River Mouth, Ghana". *Tohoku Regional Disaster Science Research* **58**, 111-116, Available at: <http://nds-tohoku.in.arena.ne.jp/ndsjournal/volume58/58-20.pdf>
- Li, G., H. Wei, S. Yue, Y. Cheng & Y. Han, 1998. "Sedimentation in the Yellow River delta, part II: suspended sediment dispersal and deposition on the subaqueous delta". *Marine Geology* **149**(1-4), 113-131. doi: 10.1016/S0025-3227(98)00032-2
- Liu, C.-N., S.-H. Wu, Z.-H. Xu, Q. Ren, D.-L. Yue, D.-G. Wu, Y.-D. Sun, W.-F. Cui & K.-L. Li, 2025. "Lacustrine delta-offshore bar system: depositional characteristics and

- formative mechanism". *Journal of Palaeogeography* **14**(4), 100267. doi: 10.1016/j.jop.2025.100267
- Magoon, O. T., D. D. Treadwell & P. S. Atwood, 2011. "Jetties at Bodega Harbor". *Coastal Engineering Proceedings* **32**, 52. doi: 10.9753/icce.v32.structures.52.
- Malliouri, D., S. Petrakis, D. Vandarakis, V. Moraitis, T. Goulas, G.-A. Hatiris, P. Drakopoulou & V. Kapsimalis, 2023. "A Chronology-Based Wave Input Reduction Technique for Simulations of Long-Term Coastal Morphological Changes: An Application to the Beach of Mastichari, Kos Island, Greece". *Water* **15**(3), 389. doi: 10.3390/w15030389
- McConnell, K., W. Allsop & I. Cruickshank, 2004. *Piers, jetties and related structures exposed to waves: Guidelines for hydraulic loadings*. Victoria: HR Wallingford Ltd, 133p <https://www.ancientportsantiques.com/wp-content/uploads/Documents/ENGINEERING/Maritime/Jetties-Allsop2004.pdf>.
- Mera, M., 2020. *Proses Pantai (Coastal Processes)*, Padang: Andalas University Press.
- Mera, M, 2023. *Lecture notes: Shore protection structures*. Padang: University of Andalas.
- Mera, M., Y. Wulandari, J. Junaidi & F. Februarman, 2025. "Fin Gabions: A Solution for River Bend Stability". *Civil Engineering and Architecture* **13**(3), 1668-1676. doi: 10.13189/cea.2025.13031.
- Phanomphongphaisarn, N., C. Rukvichai & B. Bidorns, 2020. "Impacts of Long Jetties Construction on Shoreline Change at the Western Coast of the Gulf of Thailand". *Engineering Journal* **24**(4), 3938. doi: 10.4186/ej.2020.24.4.1
- Schlitzer, R., 2022. *Ocean data view user's guide, version 5.6.2*. Alfred-Wegener-Institute. [Online]. Available: <https://odv.awi.de/>.
- Stone, M., B.G. Krisnappan, S. Granger, H.R. Upadhaynay, Y. Zhang, C.A. Chivers, Q. Decent & A.L. Collins, 2021. "Deposition and erosion behaviour of cohesive sediments in the upper River Taw observatory, southwest UK: Implications for management and modelling". *Journal of Hydrology* **598**, 126145. doi: 10.1016/j.jhydrol.2021.126145

- Soulsby, R. & J.S. Damgaard, 2004. "Bedload sediment transport in coastal waters". *Coastal Engineering* **52**(8), 673-689. doi: 10.1016/j.coastaleng.2005.04.003
- Syvitski, J.P.M. & Y. Saito, 2007. "Morphodynamics of deltas under the influence of humans". *Global and Planetary Change* **57**(3-4), 261-282. doi: 10.1016/j.gloplacha.2006.12.001
- Warrick, J.A., 2020. "Littoral Sediment from Rivers: Patterns, Rates and Processes of River Mouth Morphodynamics". *Frontiers in Earth Science* **8**(1), 1-22, doi: 10.3389/feart.2020.00355.
- Yang, S.L., 1999. "Sedimentation on a Growing Intertidal Island in the Yangtze River Mouth". *Estuarine, Coastal and Shelf Science* **49**(3), 401-410, doi: 10.1006/ecss.1999.0501

