

DAFTAR PUSTAKA

- BAPPEDA, 2016. *Peraturan Daerah Kabupaten Pasaman Barat tentang Rencana Pembangunan Jangka Menengah Daerah (RPJMD) Kabupaten Pasaman Barat Tahun 2016-2021*, II-8, Pasaman Barat.
- Buttolph, A. M., C. W. Reed, N. C. Kraus, N. Ono, M. Larson, B. Camenen, H. Hanson, T. Wamsley, dan A. K. Zundel, 2006. *Two-dimensional depth-averaged circulation model CMS-M2D: Version 3.0; Report 2: Sediment transport and morphology change*, ERDC/CHL TR-06-7, Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- CERC., 1984. *Shore Protection Manual*, Vicksburg, Mississippi: Department of the Army, Waterways Experiment Station, Corps of Engineer Coastal Engineering Research Center.
- Chrisnatilova, D dan M. Mera, 2020. "Numerical Simulation to Determine the Effectiveness of Groynes and Breakwaters as Protective Structures for Gandoriah Beach, Pariaman City", *IOP Conference Series: Materials Science and Engineering*, 1041, 012001 : 1 – 12. IOP Publishing, (<https://doi.org/10.1088/1757-899X/1041/1/012001>).
- Dally, W. R., dan J. Pope, 1986. *Detached Breakwater for Shore Protection*, Technical Report CERC-86-1. Vicksburg, Mississippi. Department of the Army, Waterways Experiment Station, Corps of Engineer Coastal Engineering Research Center.
- Dei, M., S. Priyaa S, dan B.K. Jena, 2021. "A Shoreline Change Detection (2012-2021) and forecasting Using Digital Shoreline Analysis System (DSAS) Tool: A Case Study of Dahej Coast, Gulf of Khambhat, Gujarat, India", *Indonesian Journal of Geography*, 53(2), 295-309, ISSN : 0024-9521, (<https://doi.org/10.22146/ijg.56297>).
- Demirbilek, Z., L. Lin, dan A. Zundel, 2007. *WABED model in the SMS: Part 2. Graphical interface*, Coastal and Hydraulics Engineering Technical Note

ERDC/CHL CHETN-I-74, Vicksburg, MS: U.S. Army Engineer Research and Development Center.

Dolan, R., B. Hayden., dan J. Heywood, 1978. "A new photogrammetric method for determining shoreline erosion", *Journal Coastal Engineering*, 2, 21-39, ELSEVIER B.V.,

([https://doi.org/10.1016/0378-3839\(78\)90003-0](https://doi.org/10.1016/0378-3839(78)90003-0)).

Faza, L. H. dan Y. N. Kurniadi, 2016. "Desain Bangunan Pelindung Pantai sebagai Penanggulangan Abrasi di Kawasan Pantai Ujung Jabung Provinsi Jambi", *Rekaracana: Jurnal Teknik Sipil Itenas*, 2 (2), 47 – 58,

(<https://doi.org/10.26760/rekaracana.v2i2.47>).

Fikri, A., 2022. *Penentuan Bangunan Pengaman Pantai Dekat Masjid Al-Hakim Padang Dengan Simulasi Numerik*. Tesis, Padang: Universitas Andalas.

Fitria, S., 2015. *Analisa Pola Pergerakan Arus di Perairan Sekitar Pantai Utara Nusa Penida dengan Menggunakan Software Surface-Water Modelling System (SMS)*, Skripsi, Malang: Universitas Brawijaya.

Fitri, A. dan L. Yao., 2019. "The impact of parameter changes of a detached breakwater on coastal morphodynamic at cohesive shore: A simulation", *IOP Conf. Series: Earth and Environmental Science*, 365, 012054:1-8, IOP Publishing,

(<http://doi:10.1088/1755-1315/365/1/012054>).

Garzon, J.L., O. Ferreira, dan T.A. Plorimitis, 2022. "Modeling of Coastal Erosion in Exposed and Groin-Protected Steep Beaches", *Journal Waterway, Port, Coastal, Ocean Engineering*, 04022018:1 -16, ASCE, ([https://doi.org/10.1061/\(ASCE\)WW.1943-5460.0000719](https://doi.org/10.1061/(ASCE)WW.1943-5460.0000719)).

Hariatama,A.,2022. *Simulasi Numerik Untuk Melihat Kinerja Bangunan Pengaman Pantai Groin Dan Breakwaters Di Pantai Ketaping, Padang Pariaman*, Tesis, Padang: Universitas Andalas.

- Hur, D.-S., C.-H. Kim., D.-S. Kim., dan J.-S. Yoon, 2008. "Simulation of The Nonlinear Dynamic Interactions between Waves, A Submerged Breakwater and The Seabed", *Journal Ocean Engineering*, 35, 511-522, ELSEVIER B.V, (<http://doi:10.1016/j.oceaneng.2007.12.002>).
- Kermani, S., M. Boutiba., M. Guendoz, M. S. Guettouche, dan D. Khelfani, 2016. "Detection and analysis of shoreline changes using geospatial tools and automatic computation: Case of jijelian sandy coast (East Algeria)", *Journal Ocean & Coastal Management*, 132, 46-58, ELSEVIER B.V., (<https://doi.org/10.1016/j.ocecoaman.2016.08.010>).
- Lin, L., H. Mase, F. Yamada, dan Z. Demirbilek, 2006. *Wave-action balance equation diffraction (WABED) model: Tests of wave diffraction and reflection at inlets*, Coastal and Hydraulics Engineering Technical Note ERDC/CHL CHETN-III-73, Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- Lin, L., Z. Demirbilek., F. Wu, J.T. Jackson., dan A.T. Shak., 2007. "Coastal Numerical Modeling of Peninsula Beach, California", *10th International Conference on Estuarine and Coastal Modeling oleh American Society for Engineering Education*, ([https://doi.org/10.1061/40990\(324\)11](https://doi.org/10.1061/40990(324)11)).
- Lin, L., Z. Demirbilek, H. Mase, J. Zheng, dan F. Yamada, 2008. *CMS-Wave: A Nearshore Spectral Wave Processes Model for Coastal Inlets and Navigation Projects*. ERDC/CHL TR-08-13, Vicksburg, Mississippi: US Army Corps of Engineers, Engineers Research and Development Center.
- Lin, L., dan Z. Demirbilek, 2018. "Coastal Wave Modeling for Jetty Rehabilitation at Coos Bay, Oregon", Makalah disampaikan pada *International Conference on Coastal Engineering*, 30 Juli - 3 Agustus 2018, Baltimore – Maryland, (<https://doi.org/10.9753/icce.v36.papers.89>).
- Lin, L., Z. Demirbilek, dan J. Podoski, 2019. *Wave and Circulation Modeling of Infrastructure Installation at Rota Harbor in Northern Marianna Islands*, Makalah disampaikan pada Konferensi American Society for

- Engineering Education Tahunan ke 126, 16-1 2019, Tampa Convention Center, (<http://doi:10.18260/1-2--33547>).
- Lojek, O., N. Goseberg. M.ASCE., dan T. Schlurmann, 2020. "Projecting Hydro-Morphodynamic Impacts of Planned Layout Changes for a Coastal Harbor", *Journal of Waterway, Port, Coastal, Ocean Engineering*, 05021013:1 -14, ASCE, ([https://doi.org/10.1061/\(ASCE\)WW.1943-5460.0000666](https://doi.org/10.1061/(ASCE)WW.1943-5460.0000666)).
- Magdalena, I., H.Q. Rif'atin dan I.J. Kristianto., 2020. "Numerical method in riemann invariant form for a submerged bar breakwater model", *Journal of Physics: Conference Series*, 1751, 012002: 1-9, IOP Publishing, (<http://doi:10.1088/1742-6596/1751/1/012002>).
- Magdalena, I., N. Karima, P. Delfina, dan V. Ferren, 2022. "Wave damping by breakwater and mangrove for protecting shoreline", *Journal Results in Engineering*, 16, 100693: 1-10, ELSEVIER B.V, (<https://doi.org/10.1016/j.rineng.2022.100693>).
- Mase, H., 2001. "Multidirectional random wave transformation model based on energy balance equation", *Coastal Engineering Journal*, 43(4):317-337, (<https://doi.org/10.1142/S0578563401000396>).
- Mase, H., K. Oki, T. S. Hedges, dan H. J. Li. 2005. "Extended energy-balance-equation wave model for multidirectional random wave transformation", *Ocean Engineering*, 32(8-9): 961-98, (<https://doi.org/10.1016/j.oceaneng.2004.10.015>).
- Maulana, A.R.MA., R.U.A. Wiyono, J.F. Irawan, M.B. Pratama., G. Halik., dan W.Y. Widiyarti, 2020. "Numerical Simulation of Breakwater Layout in Puger Beach Jember Due to Tidal Wave", *IOP Conference Series: Earth and Environmental Science*, 437, 012026:1-9, IOP Publishing, (<http://doi:10.1088/1755-1315/437/1/012026>).
- Mera, M., 2020. *Proses Pantai*. Padang: Andalas University Press.

- Militello, A., C. W. Reed, A. K. Zundel, dan N. C. Kraus, 2004. *Two-dimensional depth-averaged circulation model CMS-M2D: Version 2.0; Report 1: Technical documentation and user's guide*. ERDC/CHL TR-04-02. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- Munandar, F. A., R. Triadmaja, dan N. Yuwono, 2020. "The Performance of Low Crested Breakwaters as a Sand Trap for Shore Protection", *IOP Conf. Series: Earth and Environmental Science*, 426, 012005: 1-10, IOP Publishing, (<http://doi:10.1088/1755-1315/426/1/012005>).
- Nurhayati, I., V. Dermawan & S.P. Baselly, 2018. "Simulasi Numeris Perubahan Morfologi Pantai Dengan Menggunakan Modul CMS-Flow di Pantai Nusa Dua Bali", *Jurnal Researchgate*. 1-8.
- O'Brien, K., J. Stocker., J. Barret., dan B. Hyde., 2014. *Analysis of Shoreline Change in Connecticut 100+ Years of Erosion and Accretion: Methodology and Summary Result*. Laporan Teknis, Hartford, Connecticut: Connecticut Departmen of Energy & Environmental Protection, https://shorelinechange.uconn.edu/wp-content/uploads/sites/1897/2016/09/2014_CT_ShorelineChange.pdf.
- Putra, T.W.L., D.N. Sugianto, dan H. Siagian., 2020. "Submerged breakwater effectiveness based on wave spectrum changes in Panjang Island, Jepara", *IOP Conference Series: Earth and Environmental Science*, 530, 012033:1-12, IOP Publishing, (<http://doi:10.1088/1755-1315/530/1/012033>).
- Putri, T.S., A.S. Sukri, dan M.I. Sina, 2019. "Pemodelan Karakteristik Gelombang dengan Surface Water Modelling System (SMS) pada Pantai Pulau Maginti". *Jurnal Ilmiah Teknik Sipil (Stabilita)*, 7(3).
- Salim, M.A., S. I.A., dan Kartono. W., 2023. *Strategi Adaptasi Banjir Pesisir*, Yogyakarta: K-Media.
- Setyasih, I., Y. Anwar, dan M.K.A. Paramitha., 2020. "Analisis Perubahan Garis Pantai di Kota Balikpapan Menggunakan Metode Digital

Shoreline Analysis System (DSAS)", *Jurnal Pushidrosal*, 3(1), 9-17, ISSN: 2654- 8011.

Shah, P dan Dr. Gargi Rajapara, 2023. "Comparison Shoreline Change Analysis using EPR and LRR methods along the Coastal Region", *International Journal of Emerging Technologies and Innovative Research*, 10, 10, 402-408, ISSN : 2349-516, Ahmedabad.India : IJ Publication.

Solihuddin, T., 2011. *Karakteristik Pantai Dan Proses Abrasi di Pesisir Padang Pariaman, Sumatera Barat*, *Majalah Ilmiah Globe*, 13(2), 112-120.

Sugianto, D. N., 2007. "Studi Pola Sirkulasi Arus Laut di Perairan Pantai Provinsi Sumatera Barat", *Jurnal Ilmu Kelautan*, 12(2), 79-92, ISSN: 0853-7291.

Sutikno, S., F. Almanna., Rinaldi, Mubarak, dan K. Murakami, 2021. "Physical and Numerical Simulation of Wave Transmission Over Submerged Breakwater", *Journal of Physics: Conference Series*, 012033:1-12, IOP Publishing, (<https://doi:10.1088/1742-6596/2049/1/012063>).

Syach, M.F., M.F. Ayasy., dan N. Safinatunnajah., 2020. "Pemetaan Perkiraan Potensi Gelombang Laut Sebagai Pembangkit Listrik Tenaga Gelombang Laut Dengan Sistem Pelamis Di Perairan Nias", *Jurnal Meteorologi Klimatologi dan Geofisika*, 7(3), 11-19, ISSN: 2355-7206.

Thé, L.J., C.L. Thé, M.A. Jhonson, 2016. *WRPlot View User Guide*, Technical Report, Ontario, Kanada: Lakes Environmental Software.

Tim Redaksi Kamus Bahasa Indonesia, 2008. *Kamus Bahasa Indonesia*, Jakarta: Pusat Bahasa.

Triatmodjo, B., 1992. *Metode Numerik*, Yogyakarta: Beta Offset.

Triatmodjo, B., 1999. *Teknik Pantai*, 5, Yogyakarta: Beta Offset.

Yoni, A., 2011. *Kajian Kinerja Bangunan Groin Pantai Baru Provinsi Sumatera Utara*, Tesis, Bandung: Institut Teknologi Bandung.

Yuldi, H., 2016. *Prediksi Debit Banjir Rencana Penyebab Sedimentasi di Muara Batang Anai*, Tesis, Padang: Universitas Andalas.



