

DAFTAR PUSTAKA

- Aksa, F. I., & Afrian, R. (2022). Community adaptation strategies toward tidal flood: A case study in Langsa, Indonesia. *Jàmbá: Journal of Disaster Risk Studies*, 14(1), Article a1258. <https://doi.org/10.4102/jamba.v14i1.1258>
- Almulhim, A. I., Alverio, G. N., Sharifi, A., Shaw, R., Huq, S., Mahmud, M. J., Ahmad, S., & Abubakar, I. R. (2024). Climate-induced migration in the Global South: An in-depth analysis. *npj Climate Action*, 3, Article 47. <https://doi.org/10.1038/s44168-024-00133-1>
- Amalia, A. F., Purwandari, D. A., & Yuliani, S. (2020). Hubungan sense of belonging dengan partisipasi masyarakat pada bank sampah di wilayah Kecamatan Kemayoran. *Edukasi IPS*, 4(1), 30–39. <https://doi.org/10.21009/EIPS.004.1.04>
- Andzari, A., Purwandari, D. A., & Yuliani, S. (2021). Hubungan budaya sekolah dengan pro-environmental behavior siswa. *Jurnal Ilmiah Pendidikan Lingkungan dan Pembangunan*, 22(1), 16–25. <https://journal.unj.ac.id/unj/index.php/plpb/article/view/19945>
- Arachman, F. R., Setiawan, C., & Anindhita, W. (2025). A comparative analysis of the effectiveness of digital map platforms for flood risk communication in the Ciliwung River Basin. *Jurnal Spatial Wahana Komunikasi dan Informasi Geografi*, 24(2), 206–227. <https://doi.org/10.21009/spatial.242.011>
- Ariyaningsih, A., Erik, B., & Sukmara, B. (2021). Kriteria ketahanan kota berdasarkan jenis bencana prioritas di Kota Balikpapan. *Region: Jurnal Pembangunan Wilayah dan Perencanaan Partisipatif*, 16(1), 74–82. <https://doi.org/10.20961/region.v16i1.44149>
- Badan Nasional Penanggulangan Bencana. (2023). *Laporan kinerja triwulan IV Badan Nasional Penanggulangan Bencana tahun anggaran 2023*. <https://bnpb.go.id/lkip-triwulan-4-badan-nasional-penanggulangan-bencana-ta-2023>
- Badan Nasional Penanggulangan Bencana. (2024). *Laporan kinerja Badan Nasional Penanggulangan Bencana tahun anggaran 2024*. <https://bnpb.go.id/lakip2024>

Badan Nasional Penanggulangan Bencana. (2025b). *Laporan kinerja Badan Nasional Penanggulangan Bencana tahun anggaran 2025*. <https://bnpb.go.id/lakip2025>

Badan Nasional Penanggulangan Bencana, & Badan Penanggulangan Bencana Daerah Provinsi DKI Jakarta. (2023). *Kajian risiko bencana Provinsi DKI Jakarta tahun 2022–2026*. <https://bpbd.jakarta.go.id/data/files/perpustakaan/2023/02/07/179/167574828066-kajian-risiko-bencana-provinsi-dki-jakarta-tahun-2022-2026.pdf>

Badan Penanggulangan Bencana Daerah Provinsi DKI Jakarta. (2023). *Rencana strategis Badan Penanggulangan Bencana Daerah Provinsi DKI Jakarta tahun 2023–2026*. <https://bpbd.jakarta.go.id/data/files/perpustakaan/2023/06/13/189/168662911938-rencana-strategis-tahun-2023-2026.pdf>

Badan Penanggulangan Bencana Daerah Provinsi DKI Jakarta. (2025c, June 24). *Update info terkini genangan 24 Juni 2025 sampai dengan pukul 07.00 WIB*. <https://bpbd.jakarta.go.id/berita/UVRzQ3o1dHhxelpRlgvbGRS-SlIIZz09/update-info-terkini-genangan-24-juni-2025-s-d-pukul-07-00-wib>

Badan Pusat Statistik Kota Jakarta Utara. (2024). *Kecamatan Penjaringan dalam angka 2024*. <https://jakutkota.bps.go.id/id/publication/2024/09/26/95bdcc162ab6237700098732/kecamatan-penjaringan-dalam-angka-2024.html>

Badan Pusat Statistik Kota Jakarta Utara. (2025). *Kecamatan Penjaringan dalam angka 2025*. <https://jakutkota.bps.go.id/id/publication/2025/09/26/dca555a922ea40c2251bf53e/kecamatan-penjaringan-dalam-angka-2025.html>

Ballesteros, C., & Esteves, L. S. (2021). Integrated assessment of coastal exposure and social vulnerability to coastal hazards in East Africa. *Estuaries and Coasts*, 44, 2056–2072. <https://doi.org/10.1007/s12237-021-00930-5>

Barlas, Y. (1996). Formal aspects of model validity and validation in system dynamics. *System Dynamics Review*, 12(3), 183–210. [https://doi.org/10.1002/\(SICI\)1099-1727\(199623\)12:3%3C183::AID-SDR103%3E3.0.CO;2-4](https://doi.org/10.1002/(SICI)1099-1727(199623)12:3%3C183::AID-SDR103%3E3.0.CO;2-4)

- Bigandata, Y., Wahyuni, P., & Maharani, Y. N. (2023). Kerentanan sosial dan ekonomi pada bencana banjir di Kelurahan Sutojayan Kabupaten Blitar. *Indonesian Journal of Environment and Disaster*, 2(1), 57–67. <https://doi.org/10.20961/ijed.v2i1.688>
- Bixler, R. P., Paul, S., Jones, J., Preisser, M., & Passalacqua, P. (2021). Unpacking adaptive capacity to flooding in urban environments: Social capital, social vulnerability, and risk perception. *Frontiers in Water*, 3, 728730. <https://doi.org/10.3389/frwa.2021.728730>
- Bott, L.-M., Schöne, T., Illigner, J., Haghshenas Haghghi, M., Gisevius, K., & Braun, B. (2021). Land subsidence in Jakarta and Semarang Bay: The relationship between physical processes, risk perception, and household adaptation. *Ocean & Coastal Management*, 211, Article 105775. <https://doi.org/10.1016/j.ocecoaman.2021.105775>
- Buchori, I., Pramitasari, A., Sugiri, A., Maryono, M., Basuki, Y., & Sejati, A. W. (2022). Adaptation strategies and community participation in government-led mitigation projects: A comparison between urban and suburban communities in Pekalongan, Indonesia. *International Journal of Disaster Risk Reduction*, 81, Article 103271. <https://doi.org/10.1016/j.ijdr.2022.103271>
- Chang, H., Pallathadka, A., Sauer, J., Grimm, N. B., Zimmerman, R., Cheng, C., Iwaniec, D. M., Kim, Y., Lloyd, R., McPhearson, T., Rosenzweig, B., Troxler, T., Welty, C., Brenner, R., & Herreros-Cantis, P. (2021). Assessment of urban flood vulnerability using the social-ecological-technological systems framework in six US cities. *Sustainable Cities and Society*, 68, 102786. <https://doi.org/10.1016/j.scs.2021.102786>
- Cutter, S. L., Boruff, B. J., & Shirley, W. L. (2003). Social vulnerability to environmental hazards. *Social Science Quarterly*, 84(2), 242–261. <https://doi.org/10.1111/1540-6237.8402002>
- Dahuri, R., Rais, J., Ginting, S. P., & Sitepu, M. J. (1996). *Pengelolaan sumber daya wilayah pesisir dan lautan secara terpadu*. Pradnya Paramita.
- de Haas, H. (2021). A theory of migration: The aspirations-capabilities framework. *Comparative Migration Studies*, 9, Article 8. <https://doi.org/10.1186/s40878-020-00210-4>

- de Haas, H., Castles, S., & Miller, M. J. (2020). *The age of migration: International population movements in the modern world* (6th ed.). Red Globe Press.
- Dinas Sumber Daya Air Provinsi DKI Jakarta. (2026, April 23). *Pesisir Jakarta berpotensi rob di 17–23 April 2026, pompa dan pintu air disiagakan*. <https://dsda.jakarta.go.id/detail-artikel/pesisir-jakarta-berpotensi-rob-di-17-23-april-2026-pompa-dan-pintu-air-disiagakan/155>
- Doukakis, E. (2005). Coastal vulnerability and risk parameters. *European Water*, 11/12, 3–11.
- Duijndam, S. J., Botzen, W. J. W., Hagedoorn, L. C., Bubeck, P., Haer, T., Pham, M., & Aerts, J. C. J. H. (2023). Drivers of migration intentions in coastal Vietnam under increased flood risk from sea level rise. *Climatic Change*, 176, Article 12. <https://doi.org/10.1007/s10584-022-03479-9>
- Duijndam, S. J., Botzen, W. J. W., Hagedoorn, L. C., Ton, M., de Bruijn, J., Carretero, S., Dachary-Bernard, J., Rulleau, B., & Aerts, J. C. J. H. (2025). Global determinants of coastal migration under climate change. *Nature Communications*, 16, Article 6866. <https://doi.org/10.1038/s41467-025-59199-y>
- Evans, I. S. (1977). The selection of class intervals. *Transactions of the Institute of British Geographers*, 2(1), 98–124.
- Fitria, R., Rahmayanti, H., & Sumargo, B. (2022). Pemodelan model proyeksi eco-drainage di wilayah tanah basah: Studi kasus kawasan Kelapa Gading DKI Jakarta. *Rekayasa*, 15(2), 121–128. <https://doi.org/10.21107/rekayasa.v15i2.15057>
- Gunandar, C. M., Hasibuan, H. S., & Tambunan, R. P. (2024). Flood vulnerability in Jakarta coastal settlement: A study at Kalibaru Subdistrict, North Jakarta, Indonesia. *Planning Malaysia*, 22(5), 209–223. <https://doi.org/10.21837/pm.v22i34.1584>
- Harintaka, H., Suhadha, A. G., Syetiawan, A., Ardha, M., & Rarasati, A. (2024). Current land subsidence in Jakarta: A multi-track SBAS InSAR analysis during 2017–2022 using C-band SAR data. *Geocarto International*, 39(1), Article 2364726. <https://doi.org/10.1080/10106049.2024.2364726>

- Handika, R., Widodo, J., & Pravitasari, A. E. (2024). Combined land subsidence analysis in Jakarta based on PS-InSAR and MICMAC methods. *Jurnal Teknologi Lingkungan*, 25(1), 137–145. <https://doi.org/10.55981/jtl.2024.1125>
- Hildayanto, A. (2020). Pengetahuan dan sikap kesiapsiagaan masyarakat terhadap bencana banjir. *HIGEIA: Journal of Public Health Research and Development*, 4(4), 577–586. <https://doi.org/10.15294/higeia.v4i4.38362>
- Hutabarat, B. A., Permatasari, I. N., & Kisnarti, E. A. (2024). Kajian efektivitas HEC-RAS dalam simulasi banjir pesisir. *Jurnal Riset Kelautan Tropis (Journal of Tropical Marine Research)*, 6(2), 86–102. <https://doi.org/10.30649/jrkt.v6i2.93>
- Intergovernmental Panel on Climate Change. (2022). *Climate change 2022: Impacts, adaptation and vulnerability*. Cambridge University Press. <https://doi.org/10.1017/9781009325844>
- Iskandar, M. R., Setiyono, H., & Helmi, M. (2020). Analisis geospasial area genangan banjir rob dan dampaknya pada penggunaan lahan tahun 2020–2025 di Kota Pekalongan Provinsi Jawa Tengah. *Indonesian Journal of Oceanography*, 2(3), 271–282. <https://doi.org/10.14710/ijoce.v2i3.8668>
- Jamshed, A., Birkmann, J., Feldmeyer, D., & Rana, I. A. (2020). A conceptual framework to understand the dynamics of rural–urban linkages for rural flood vulnerability. *Sustainability*, 12(7), 2894. <https://doi.org/10.3390/su12072894>
- Karana, R. C., & Suprihardjo, R. (2013). Mitigasi bencana banjir rob di Jakarta Utara. *Jurnal Teknik ITS*, 2(1), C25–C30. <https://doi.org/10.12962/j23373539.v2i1.2465>
- Kharisma, B., Esariti, L., & Rahdriawan, M. (2025). Tingkat kerentanan masyarakat terhadap bencana banjir rob di Kampung Tambak Lorok Kota Semarang. *Jurnal Pengembangan Kota*, 13(1), 24–38. <https://doi.org/10.14710/jpk.13.1.24-38>
- Langlois, B. K., Beaulac, L., Berry, K., Anyanwu, O., Simpson, R. B., Ismanto, A., Koch, M., Coughlan de Perez, E., Griffin, T., & Naumova, E. N. (2023). Household flood severity and migration extent in Central Java: Analysis of

- the Indonesian Family Life Survey. *International Journal of Environmental Research and Public Health*, 20(9), Article 5706. <https://doi.org/10.3390/ijerph20095706>
- Mason, K., Lindberg, K., Haenfling, C., Schori, A., Marsters, H., Read, D., & Borman, B. (2021). Social vulnerability indicators for flooding in Aotearoa New Zealand. *International Journal of Environmental Research and Public Health*, 18(8), 3952. <https://doi.org/10.3390/ijerph18083952>
- Membele, G. M., Naidu, M., & Mutanga, O. (2022). Examining flood vulnerability mapping approaches in developing countries: A scoping review. *International Journal of Disaster Risk Reduction*, 69, 102766. <https://doi.org/10.1016/j.ijdrr.2021.102766>
- Moizer, J. D., Arthur, D., & Moffatt, I. (2001). *A formal but non-automated method to test the sensitivity of system dynamics models* [Conference paper]. System Dynamics Society.
- Muzani, Setiawan, C., Zid, M., & Akmal, F. M. (2020). Analysis preparedness level of the high school community in facing earthquake and tsunami in Lebak Regency of Banten Province. *IOP Conference Series: Earth and Environmental Science*, 412, 012014. <https://doi.org/10.1088/1755-1315/412/1/012014>
- Nadhiroh, A., Fatimah, E., & Suharto, B. B. (2024). Tingkat kerentanan fisik terhadap banjir rob di Kecamatan Penjaringan, Jakarta Utara. *Jurnal Bhuwana*, 4(2), 215–226. <https://doi.org/10.25105/bhuwana.v4i1.21752>
- Nalarsih, R. T. (2024). Sistem dinamis dan HEC-RAS sebagai alat pengambil keputusan model ketahanan banjir. *Teknik*, 45(2), 210–223. <https://doi.org/10.14710/teknik.v45i2.65276>
- Nastiti, R. P., Pulungan, R. M., & Iswanto, A. H. (2021). Faktor-faktor yang berhubungan dengan kesiapsiagaan masyarakat dalam menghadapi bencana banjir di Kelurahan Kebon Pala Jakarta Timur. *Poltekita: Jurnal Ilmu Kesehatan*, 15(1), 48–56. <https://doi.org/10.33860/jik.v15i1.219>
- OECD, European Union, & European Commission, Joint Research Centre. (2008). *Handbook on constructing composite indicators: Methodology and user guide*. OECD Publishing. <https://doi.org/10.1787/9789264043466-en>

- Pahleviannur, M. R., Ayuni, I. K., Widiastuti, A. S., Umaroh, R., Aisyah, H. R., Afyah, Z., Azzahra, I., Chairani, M. S., Dhafita, N. A., Rohmah, N. L., Sudrajat, S., Mardiatno, D., Rachmawati, R., & Rahardjo, N. (2023). Keren-tanan sosial ekonomi terhadap bencana banjir di hilir DAS Citanduy bagian barat Kabupaten Pangandaran Jawa Barat. *Media Komunikasi Geografi*, 24(2), 189–205. <https://doi.org/10.23887/mkg.v24i2.66370>
- Paramitha, P. P., Tambunan, R. P., & Indra, T. L. (2020). Kajian pengurangan risiko bencana banjir di DAS Ciliwung. *IJEEM: Indonesian Journal of Environmental Education and Management*, 5(2), 100–124. <https://doi.org/10.21009/IJEEM.052.01>
- Petzold, J., et al. (2024). Climate change and human security in coastal regions. *Global Sustainability*.
- Polsky, C., Neff, R., & Yarnal, B. (2007). Building comparable global change vulnerability assessments: The Vulnerability Scoping Diagram. *Global Environmental Change*, 17(3–4), 472–485. <https://doi.org/10.1016/j.gloenvcha.2007.01.005>
- Purnomo, A. H., Kurniawan, T., Farandy, A. R., Apriliani, T., Nurlaili, Imron, M., & Sajise, A. J. (2024). Revisiting the climate change adaptation strategy of Jakarta's coastal communities. *Ocean & Coastal Management*, 253, Article 107112. <https://doi.org/10.1016/j.ocecoaman.2024.107112>
- Putiamini, S., Patria, M. P., Soesilo, T. E. B., & Karsidi, A. (2023). Coastal vulnerability assessment to tidal rob flooding in Indramayu Coast, West Java, Indonesia. *Indonesian Journal of Geography*, 55(3), 517–526. <https://doi.org/10.22146/ijg.65549>
- Rahmayanti, H., Ichsan, I. Z., Azwar, S. A., Purwandari, D. A., Pertiwi, N., Singh, C. K. S., & Gomes, P. W. P. (2020). DIFMOL: Indonesian students' HOTS and environmental education model during COVID-19. *Journal of Sustainability Science and Management*, 15(7), 10–19. <https://doi.org/10.46754/jssm.2020.10.002>
- Rais, J. (1993). Marine resource evaluation and planning project for an integrated coastal zone planning and management in Indonesia. In *World Coast Conference 1993: Proceedings* (Vols. 1–2, pp. 613–616). Coastal Zone Man-

agement Centre, Ministry of Transport, Public Works and Water Management.

Ramli, M. W. A., Alias, N. E., Mohd Yusof, H., Yusop, Z., & Taib, S. M. (2021). Development of a local, integrated disaster risk assessment framework for Malaysia. *Sustainability*, 13(19), 10792. <https://doi.org/10.3390/su131910792>

Rudiarto, I., & Pamungkas, D. (2020). Spatial exposure and livelihood vulnerability to climate-related disasters in the North Coast of Tegal City, Indonesia. *International Review for Spatial Planning and Sustainable Development*, 8(3), 34–53. https://doi.org/10.14246/irpsd.8.3_34

Roy, P., Pal, S. C., Arabameri, A., Rezaie, F., Chakraborty, R., Chowdhuri, I., Saha, A., Malik, S., & Das, B. (2021). Climate and land use change induced future flood susceptibility assessment in a sub-tropical region of India. *Soft Computing*, 25, 5851–5874. <https://doi.org/10.1007/s00500-021-05584-w>

Salsabillah, F., Setiawan, C., A'rachman, F. R., & Oktarina, R. L. (2024). Analisis spasial tingkat kerawanan banjir rob di wilayah Jakarta Utara. *Jurnal Geosains dan Remote Sensing*, 5(1), 55–68. <https://doi.org/10.23960/jgrs.ft.unila.246>

Saltelli, A., Ratto, M., Andres, T., Campolongo, F., Cariboni, J., Gatelli, D., Saisana, M., & Tarantola, S. (2008). *Global sensitivity analysis: The primer*. John Wiley & Sons. <https://doi.org/10.1002/9780470725184>

Sari, E., Seta, A. K., Atmanto, D., Madhakomala, Yatimah, D., Mulyadi, M., Purwoko, D., Dwiputri, L. J., & Nabilla, Z. (2025). Designing an urban environmental management model toward a sustainable global smart city. *Jurnal Green Growth dan Manajemen Lingkungan*, 15(1), 68–85. <https://doi.org/10.21009/jgg.151.05>

Sarker, M. N. I., Alam, G. M. M., Firdaus, R. B. R., Biswas, J. C., Islam, A. R. M. T., Raihan, M. L., Hattori, T., Alam, K., Joshi, N. P., & Shaw, R. (2022). Assessment of flood vulnerability of riverine island community using a composite flood vulnerability index. *International Journal of Disaster Risk Reduction*, 82, 103306. <https://doi.org/10.1016/j.ijdr.2022.103306>

- Schecker, H. (1994). System dynamics in high school physics. In *Proceedings of the 1994 International System Dynamics Conference, Stirling, Scotland* (pp. 74–84). System Dynamics Society.
- Slocum, T. A., McMaster, R. B., Kessler, F. C., & Howard, H. H. (2009). *Thematic cartography and geovisualization* (3rd ed.). Pearson Prentice Hall.
- Sterman, J. D. (2000). *Business dynamics: Systems thinking and modeling for a complex world*. McGraw-Hill.
- Sumargo, B., Nuriza, F. A., Mulyono, & Rohimah, S. R. (2021). The two-stage least squares simultaneous equation model for panel data on human development, economics, and environmental quality. *AIP Conference Proceedings*, 2331, 020027. <https://doi.org/10.1063/5.0041874>
- Tahir, A. (2010). *Formulasi indeks kerentanan lingkungan pulau-pulau kecil: Kasus Pulau Kasu-Kota Batam, Pulau Barrang Lompo-Kota Makassar, dan Pulau Saonek-Kabupaten Raja Ampat* [Disertasi doktoral, Institut Pertanian Bogor]. IPB Repository. <https://repository.ipb.ac.id/handle/123456789/55051>
- Tascón-González, L., Ferrer-Julà, M., Ruiz, M., & García-Meléndez, E. (2020). Social vulnerability assessment for flood risk analysis. *Water*, 12(2), 558. <https://doi.org/10.3390/w12020558>
- Tay, C., Lindsey, E. O., Chin, S. T., McCaughey, J. W., Bekaert, D., Nguyen, M., Hua, H., Manipon, G., Karim, M., Horton, B. P., Li, T., & Hill, E. M. (2022). Sea-level rise from land subsidence in major coastal cities. *Nature Sustainability*, 5, 1049–1057. <https://doi.org/10.1038/s41893-022-00947-z>
- Turner, B. L., II, Kasperson, R. E., Matson, P. A., McCarthy, J. J., Corell, R. W., Christensen, L., Eckley, N., Kasperson, J. X., Luers, A., Martello, M. L., Polsky, C., Pulsipher, A., & Schiller, A. (2003). A framework for vulnerability analysis in sustainability science. *Proceedings of the National Academy of Sciences*, 100(14), 8074–8079. <https://doi.org/10.1073/pnas.1231335100>
- United Nations Office for Disaster Risk Reduction. (2022). *Global assessment report on disaster risk reduction 2022: Our world at risk*.

<https://www.undrr.org/publication/global-assessment-report-disaster-risk-reduction-2022>

- Valera, K., & Sharifi, A. (2025). Index-based mapping and assessment of flood vulnerability for climate adaptation at the neighborhood level: A case study of Santo Domingo, the Dominican Republic. *International Journal of Disaster Risk Reduction*, 120, 105362. <https://doi.org/10.1016/j.ijdr.2025.105362>
- van Voorst, R. (2016). *Natural hazards, risk and vulnerability: Floods and slum life in Indonesia*. Routledge. <https://doi.org/10.4324/9781315716411>
- Wang, N., Sun, F., Yang, S., Feng, Y., Sun, H., & Wang, Z. (2025). Flood fatalities and displacement influence human migration in floodplains of developing countries. *Communications Earth & Environment*, 6, Article 319. doi:10.1038/s43247-025-02293-2
- Wannewitz, M., & Garschagen, M. (2021). Mapping the adaptation solution space: Lessons from Jakarta. *Natural Hazards and Earth System Sciences*, 21(11), 3285–3322. <https://doi.org/10.5194/nhess-21-3285-2021>
- World Meteorological Organization. (2025). *State of the global climate 2024* (WMO-No. 1368). <https://wmo.int/publication-series/state-of-global-climate/state-of-global-climate-2024>
- Yulastuti, N., Sariffudin, & Syafrudin. (2023). Social vulnerability level appraisal at tidal flood areas: The case of a coastal settlement in Indonesia. *International Review for Spatial Planning and Sustainable Development*, 11(2), 99–113. https://doi.org/10.14246/irspsd.11.2_99