UNIVERSITAS
GADJAH MADA
**PERENCANAAN WILAYAH BERBASIS MITIGASI BENCANA BANJIR BERDASARKAN CITRA LANDSAT DI SEBAGIAN KABUPATEN DEMAK TAHUN 2002-2035**
MELLINIA REGINA HENI PRASTIWI, Dr. Sigit Heru Murti Budi Santosa., M.Si ; Dr. Sudaryatno., M.Si
**Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/**

# DAFTAR PUSTAKA

A. Fahrezi, P. Danoedoro, & M. Kamal. (2025). Comparison of Detailed Land Cover Mapping Based on SNI Classification Scheme using Conventional and Machine Learning Multispectral Classification. *International Journal of Geoinformatics*. https://doi.org/10.52939/ijg.v21i2.3941

Abadi, Moh. T. I. (2016). *Kajian Limpasan Air Permukaan di Sub Das Metro Kota Malang* [Thesis (Diploma)]. Universitas Negeri Malang.

Abraham, A., & Kundapura, S. (2022). Spatio-temporal Dynamics of Land Use Land Cover Changes and Future Prediction Using Geospatial Techniques. *Journal of the Indian Society of Remote Sensing*, *50*(11), 2175–2191. https://doi.org/10.1007/s12524-022-01588-7

Adhikari, S., Fik, T., & Dwivedi, P. (2017). Proximate Causes of Land-Use and Land-Cover Change in Bannerghatta National Park: A Spatial Statistical Model. *Forests*, *8*(9), 342. https://doi.org/10.3390/f8090342

Adnan, B., Endriani Arhatin, R., Lumban-Gaol, J., & Budi Susilo, S. (2025). Spatial distribution of tidal flooding in the coastal areas of Demak Regency, Central Java. *BIO Web of Conferences*, *168*, 05012. https://doi.org/10.1051/bioconf/202516805012

Adrian, A., Widiatmaka, W., Munibah, K., & Firmansyah, I. (2023). Pola Spasial Perubahan Tutupan Lahan/Penggunaan Lahan Menggunakan Google Earth Engine di Kabupaten Majalengka. *Jurnal Pembangunan Wilayah Dan Kota*, *19*(4), 447–463. https://doi.org/10.14710/pwk.v19i4.46254

Aguejdad, R., Houet, T., & Hubert-Moy, L. (2017). Spatial Validation of Land Use Change Models Using Multiple Assessment Techniques: A Case Study of Transition Potential Models. *Environmental Modeling & Assessment*, *22*(6), 591–606. https://doi.org/10.1007/s10666-017-9564-4

Alburshaid, E. A., & Mangoud, M. A. (2021a). Spatio-temporal land use analysis and urban growth dynamic prediction in the kingdom of Bahrain. *IET Conference Proceedings*, *2020*(6), 633–639. https://doi.org/10.1049/icp.2021.0938

Alburshaid, E. A., & Mangoud, M. A. (2021b). Spatio-temporal land use analysis and urban growth dynamic prediction in the kingdom of Bahrain. *IET Conference Proceedings*, *2020*(6), 633–639. https://doi.org/10.1049/icp.2021.0938

Aldileemi, H., Zhran, M., & El-Mewafi, M. (2023). Geospatial Monitoring and Prediction of land Use/Land Cover (LULC) Dynamics Based on the CA-Markov Simulation Model in Ajdabiya, Libya. *International Journal of Geoinformatics*. https://doi.org/10.52939/ijg.v19i12.2973

Aldwaik, S. Z., & Pontius, R. G. (2012). Intensity analysis to unify measurements of size and stationarity of land changes by interval, category, and transition. *Landscape and Urban Planning*, *106*(1), 103–114. https://doi.org/10.1016/j.landurbplan.2012.02.010

Andreas, H., Z. Abidin, H., Gumilar, I., P. Sidiq, T., A. Sarsito, D., & Pradipta, D. (2018a). Insight into the Correlation between Land Subsidence and the Floods in Regions of Indonesia. In *Natural Hazards - Risk Assessment and Vulnerability Reduction*. IntechOpen. https://doi.org/10.5772/intechopen.80263

Andreas, H., Z. Abidin, H., Gumilar, I., P. Sidiq, T., A. Sarsito, D., & Pradipta, D. (2018b). Insight into the Correlation between Land Subsidence and the Floods in Regions of Indonesia. In *Natural Hazards - Risk Assessment and Vulnerability Reduction*. IntechOpen. https://doi.org/10.5772/intechopen.80263

Ansori, M. B. (2023). Flood Hydrograph Analysis Using Synthetic Unit Hydrograph, Hec-Hms, And Hec-Ras 2d Unsteady Flow Precipitation On-Grid Model For Disaster Risk

UNIVERSITAS GADJAH MADA
PERENCANAAN WILAYAH BERBASIS MITIGASI BENCANA BANJIR BERDASARKAN CITRA LANDSAT DI SEBAGIAN KABUPATEN DEMAK TAHUN 2002-2035
MELLINIA REGINA HENI PRASTIWI, Dr. Sigit Heru Murti Budi Santosa., M.Si ; Dr. Sudaryatno., M.Si
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Mitigation. *International Journal of GEOMATE*, *25*(107). https://doi.org/10.21660/2023.107.3719

Ariyani, D., Perdinan, Jarwadi Purwanto, M. Y., Sunarti, E., Juniati, A. T., & Ibrahim, M. (2022). Contributed Indicators To Fluvial Flood Along River Basin In Urban Area Of Indonesia. *Geography, Environment, Sustainability*, *15*(4), 102–114. https://doi.org/10.24057/2071-9388-2022-084

Aronoff, Stanley. (2005). *Remote sensing for GIS managers*. ESRI Press : Independent Publishers Group (IPG) [distributor].

Arsyad, S. (2010). *Konservasi tanah dan Air. Edisi kedua*. Institut Pertanian Bogor.

Asdak, C. (2013). *Hidrologi dan Pengelolaan Daerah Aliran Sungai*. UGM Press.

Asdak, C. (2023). *Hidrologi dan Pengelolaan Daerah Aliran Sungai*. UGM PRESS.

Aulia, Z. S., Pribadi, R., & Helmi, M. (2023). Dynamics of mangrove species dominant area changes in Timbulsloko and Bedono, Demak. *Depik*, *12*(2), 216–222. https://doi.org/10.13170/depik.12.2.32538

Bachri, S., Eka Aldianto, Y., Sumarmi, S., Sastro Bangun Utomo, K., & Naufal Fathoni, M. (2021). Flood Modelling Of Badeng River Using Hec-Ras In Singojuruh Sub District, Banyuwangi Regency, East Java, Indonesia. *JURNAL GEOGRAFI*, *13*(1), 76–87. https://doi.org/10.24114/jg.v13i1.19211

Badan Nasional Penanggulangan Bencana. (2024). *Indeks Risiko Bencana Indonesia Tahun 2024*.

Badan Nasional Penanggulangan Bencana. (2025). Jumlah Kejadian Bencana Menurut Jenis Bencana. In *https://data.bnpb.go.id/dataset/f61d78e5-04c6-4ce8-9acf-e425dadc1f4d/resource/9b41007e-c998-456b-8cbc-385b17986e46/download/jumlah-kejadian-bencana-menurut-jenis-bencana-tahun-2010-2024.xlsx*.

Badan Pusat Statistik Kabupaten Demak. (2025). *Kabupaten Demak dalam Angka 2025*.

Badan Pusat Statistik Provinsi Jawa Tengah. (2019). *Data dan Informasi Lingkungan Hidup Provinsi Jawa Tengah 2019*.

Badshah, M. T., Hussain, K., Rehman, A. U., Mehmood, K., Muhammad, B., Wiarta, R., Silamon, R. F., Khan, M. A., & Meng, J. (2024). The role of random forest and Markov chain models in understanding metropolitan urban growth trajectory. *Frontiers in Forests and Global Change*, *7*. https://doi.org/10.3389/ffgc.2024.1345047

Balgude, R., & Patel, A. (2023). Flood inundation mapping of upper Krishna basin using hydrodynamic model. *Disaster Advances*, *16*(4), 8–15. https://doi.org/10.25303/1604da08015

BBC News Indonesia. (2024). Banjir Demak terparah dalam 30 tahun terakhir - Apakah bencana ini berkaitan dengan Selat Muria? *BBC News Indonesia*. https://www.bbc.com/indonesia/articles/clm75v3llvxo

Bemmelen, R. V. (1949). *The Geology of Indonesia, Vol. IA: General Geology of Indonesia and Adjacent Archipelagoes: Vol. IA*. Government Printing Office.

Bhatta, B. (2013). *Introduction to Remote Sensing and Research* (pp. 1–20). https://doi.org/10.1007/978-94-007-6594-8_1

Breiman, L., Friedman, J. H., Olshen, R. A., & Stone, C. J. (2017). *Classification And Regression Trees*. Routledge. https://doi.org/10.1201/9781315139470

Busayo, E. T., Kalumba, A. M., Afuye, G. A., Olusola, A. O., Ololade, O. O., & Orimoloye, I. R. (2022). Rediscovering South Africa: Flood disaster risk management through ecosystem-based adaptation. *Environmental and Sustainability Indicators*, *14*(100175).

UNIVERSITAS GADJAH MADA
**PERENCANAAN WILAYAH BERBASIS MITIGASI BENCANA BANJIR BERDASARKAN CITRA LANDSAT DI SEBAGIAN KABUPATEN DEMAK TAHUN 2002-2035**
MELLINIA REGINA HENI PRASTIWI, Dr. Sigit Heru Murti Budi Santosa., M.Si ; Dr. Sudaryatno., M.Si
**Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/**

Camps-Valls, G., Tuia, D., Gómez-Chova, L., Jiménez, S., & Malo, J. (2012). *Remote Sensing Image Processing*. Springer International Publishing. https://doi.org/10.1007/978-3-031-02247-0

Canters, F., Vanderhaegen, S., Khan, A. Z., Engelen, G., & Uljee, I. (2014). Land-use simulation as a supporting tool for flood risk assessment and coastal safety planning: The case of the Belgian coast. *Ocean & Coastal Management*, *101*, 102–113. https://doi.org/10.1016/j.ocecoaman.2014.07.018

Chew Wai Chang, Chenghua Shi, Soo Chin Liew, & Leong Keong Kwoh. (2014). Object-oriented land use cover classification of Landsat 8 OLI images in Sumatra. *2014 IEEE Geoscience and Remote Sensing Symposium*, 4232–4234. https://doi.org/10.1109/IGARSS.2014.6947422

Choudhary, P., Devatha, C. P., & Azhoni, A. (2025). Integration of multi-layer perceptron neural network and cellular Automata-Markov chain approach for the prediction of land use land cover in land change modeler. *Ecological Modelling*, *506*, 111162. https://doi.org/10.1016/j.ecolmodel.2025.111162

Chow, V. T. (1959). *Open-Channel Hydraulics*. McGraw-Hill.

Costabile, P., Costanzo, C., Ferraro, D., Macchione, F., & Petaccia, G. (2020). Performances of the New HEC-RAS Version 5 for 2-D Hydrodynamic-Based Rainfall-Runoff Simulations at Basin Scale: Comparison with a State-of-the Art Model. *Water*, *12*(9), 2326. https://doi.org/10.3390/w12092326

Danoedoro, P., Ananda, I. N., Kartika, C. S. D., Umela, A. F., & Indayani, A. B. (2020). Testing a detailed classification scheme for land-cover/ land-use mapping of typical Indonesian landscapes: case study of Sarolangun, Jambi and Salatiga, Central Java. *Indonesian Journal of Geography*, *52*(3), 327. https://doi.org/10.22146/ijg.50080

Darijani, Z., Ghaeini-Hessaroeyeh, M., & Fadaei-Kermani, E. (2025). Flood inundation and hazard mapping using the HEC-RAS 2D model: a case study of Adoori River, Iran. *Modeling Earth Systems and Environment*, *11*(1), 78. https://doi.org/10.1007/s40808-024-02280-0

Data Informasi Bencana Indonesia, B. N. P. B. (2025, December 7). *Data Kejadian Bencana Banjir di Kabupaten Demak Tahun 2008-2024*. Https://Dibi.Bnpb.Go.Id/Superset/Dashboard/2/.

Deviana, A., Kridasantausa, I., & Suryadi, Y. (2011). *Kajian Pemodelan Spasial Banjir untuk Mendukung Kebijakan Sempadan Sungai dan Tata Ruang Wilayah (Studi Kasus Wilayah Pengembangan Baleendah)*. Institut Teknologi Bandung.

Dewi, R. S., Handayani, W., Pratama, I. P., De Vries, W. T., Rudiarto, I., & Artiningsih, A. (2023). Assessing Flood Vulnerability from Rapid Urban Growth: A Case of Central Java — Indonesia. *Chinese Journal of Urban and Environmental Studies*, *11*(04). https://doi.org/10.1142/S2345748123500203

Du, Z., Yu, L., Li, X., Zhao, J., Chen, X., Xu, Y., Yang, P., Yang, J., Peng, D., Xue, Y., & Gong, P. (2023). Integrating remote sensing temporal trajectory and survey statistics to update land use/land cover maps. *International Journal of Digital Earth*, *16*(2), 4428–4445. https://doi.org/10.1080/17538947.2023.2274422

Eastman JR. (2012). *Idrisi selva tutorial*.

Ekeu-wei, I. T., & Blackburn, G. A. (2018). Applications of Open-Access Remotely Sensed Data for Flood Modelling and Mapping in Developing Regions. *Hydrology*, *5*(3), 39. https://doi.org/10.3390/hydrology5030039

Elisabeth Sitorus, J., Wisanggeni, D. H., Salsabila, A. A., & Badri Kusuma, M. S. (2024). The Assessment of Peak Discharge Increment Due to Land Use Change in the Serang Welahan Drainage 1 (SWD 1) River, Central Java Province, Semarang. *Jurnal Teknik Sipil Dan Lingkungan*, *9*(2), 293–302. https://doi.org/10.29244/jsil.9.2.293-302

UNIVERSITAS GADJAH MADA
**PERENCANAAN WILAYAH BERBASIS MITIGASI BENCANA BANJIR BERDASARKAN CITRA LANDSAT DI SEBAGIAN KABUPATEN DEMAK TAHUN 2002-2035**
MELLINIA REGINA HENI PRASTIWI, Dr. Sigit Heru Murti Budi Santosa., M.Si ; Dr. Sudaryatno., M.Si
**Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/**

Faqih, A., & Listyarini, J. (2016). *Proyeksi Iklim menggunakan Luaran GCM CMIP5: Statistical Bias Correction for Climate Scenarios (SiBiaS) versi 1.2 [Panduan Pengguna]*.

Fedriansya, D. ficky. (2025). Analisis Tren Perubahan Spasial Fungsi Lahan Di Kawasan Pesisir. *Jurnal Plano Buana*, *6*(1), 19–27. https://doi.org/10.36456/vbfcsd78

Fikri, A. S., Setiawan, F., Violando, W. A., Muttaqin, A. D., & Rahmawan, F. (2021). Analisis Perubahan Penutupan Lahan Menggunakan Google Earth Engine Dengan Algoritma Cart Studi Kasus: Wilayah Pesisir Kabupaten Lamongan, Provinsi Jawa Timur. *Ikatan Surveyor Indonesia – Teknik Geodesi UNDIP*, *1*, 88–99.

Fitriyati, N., Arifin, H. S., Kaswanto, R. L., & Marimin. (2024). Enhancing land use planning through integrating landscape analysis and flood inundation prediction Bekasi City's in 2030. *Geomatics, Natural Hazards and Risk*, *15*(1). https://doi.org/10.1080/19475705.2024.2360623

Garg, P. K. (2024). *Remote Sensing*. De Gruyter. https://doi.org/10.1515/9781501522840

Gholami, F., Li, Y., Zhang, J., & Nemati, A. (2023). Quantitative Assessment of Future Land Use Changes' Impact on Flood Risk Components: Integration of Remote Sensing, Machine Learning, and Hydraulic Modeling. *Water Resources Management*. https://doi.org/10.21203/rs.3.rs-3632802/v1

Gholami, F., Li, Y., Zhang, J., & Nemati, A. (2024). Quantitative Assessment of Future Environmental Changes in Hydrological Risk Components: Integration of Remote Sensing, Machine Learning, and Hydraulic Modeling. *Water*, *16*(23), 3354. https://doi.org/10.3390/w16233354

Gholami, V., & Khaleghi, M. R. (2024). Rainfall-Runoff Modeling Based on HEC-HMS Model: A Case Study in an Area with Increased Groundwater Discharge Potential. *Frontiers in Water*, *6*. https://doi.org/10.3389/frwa.2024.1474990

Gori, A., Blessing, R., Juan, A., Brody, S., & Bedient, P. (2019). Characterizing urbanization impacts on floodplain through integrated land use, hydrologic, and hydraulic modeling. *Journal of Hydrology*, *568*, 82–95. https://doi.org/10.1016/j.jhydrol.2018.10.053

Gulshad, K., Szydłowski, M., & Mustafa, A. (2024). Assessing climate change threats and urbanization impacts on surface runoff in Gdańsk (Poland): insights from remote sensing, machine learning and hydrological modeling. *Stochastic Environmental Research and Risk Assessment*, *38*(12), 4825–4842. https://doi.org/10.1007/s00477-024-02834-9

Habibie, M. I., Nurda, N., Fernando, D., Arifandri, R., Putra, P. K., Prayogi, H., & Sencaki, D. B. (2025). Integrating Sentinel-2 and ESA world cover for effective land use and land cover assessment using machine learning. *Advances in Space Research*, *76*(9), 4925–4958. https://doi.org/10.1016/j.asr.2025.07.083

Haris, F. D., Sitorus, S. R. P., & Tjahjono, B. (2022). Kesesuaian Rencana Tata Ruang Wilayah (RTRW) berbasis bahaya banjir menggunakan analisis hierarki proses di Kabupaten Kuningan. *Region : Jurnal Pembangunan Wilayah Dan Perencanaan Partisipatif*, *17*(1), 124. https://doi.org/10.20961/region.v17i1.44172

Hartanto, I. S., & Rachmawati, R. (2017). Assessing the spatial-temporal land use change and encroachment activities due to flood hazard in north coast of central Java, Indonesia. *Indonesian Journal of Geography*, *49*(2), 165–176. https://doi.org/10.22146/ijg.28402

Hayati, F., Agoes, H. F., Julianoor, P., & Nanang, E. (2014). Tinjauan Bantaran Banjir Aktual terhadap PP No. 38 Tahun 2011 dan Peraturan Menteri PU No. 63 tahun 1993 di Sungai Barabai Kabupaten Hulu Sungai Tengah. *Jurnal Poros Teknik*, *6*(2), 87–79.

UNIVERSITAS
GADJAH MADA
PERENCANAAN WILAYAH BERBASIS MITIGASI BENCANA BANJIR BERDASARKAN CITRA LANDSAT DI SEBAGIAN KABUPATEN DEMAK TAHUN 2002-2035
MELLINIA REGINA HENI PRASTIWI, Dr. Sigit Heru Murti Budi Santosa., M.Si ; Dr. Sudaryatno., M.Si
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Hias Bestari, A., Irbah, A., Fajar Nugroho, S., & Bayu Sekaranom, A. (2023). Placement Location Mapping for Nature-based Solutions in Flood Vulnerable Areas as a Disaster Management Alternative in Bantul Regency. *E3S Web of Conferences*, *468*, 04003. https://doi.org/10.1051/e3sconf/202346804003

Hu, H. H., & Walton, R. (2008). Advanced Guidance on Use of Steady HEC-RAS. *World Environmental and Water Resources Congress 2008*, 1–10. https://doi.org/10.1061/40976(316)201

Ibrahim Mahmoud, M., Duker, A., Conrad, C., Thiel, M., & Shaba Ahmad, H. (2016). Analysis of Settlement Expansion and Urban Growth Modelling Using Geoinformation for Assessing Potential Impacts of Urbanization on Climate in Abuja City, Nigeria. *Remote Sensing*, *8*(3), 220. https://doi.org/10.3390/rs8030220

Islomov, S., Aslanov, I., Shamuratova, G., Jumanov, A., Allanazarov, K., Daljanov, Q., Tursinov, M., & Karimbaev, Q. (2023). *Monitoring of Land and Forest Cover Change Dynamics Using Remote Sensing and GIS in Mountains and Foothill of Zaamin, Uzbekistan* (pp. 1908–1914). https://doi.org/10.1007/978-3-031-21219-2_212

Istianah, Hendrawan, D., & Wibowo, D. S. (2025). Analisis Penanggulangan Banjir di Desa Karanganyar, Kecamatan Karanganyar Kabupaten Demak. *Jurnal Teknik Sipil ITP*, *12*(1).

Jiang, Y., Luo, Y., & Xu, X. (2019). ). Flood insurance in China: recommendations based on a comparative analysis of flood insurance in developed countries. *Environmental Earth Sciences*, *78*, 1–11.

Jokar Arsanjani, J., Helbich, M., Kainz, W., & Darvishi Boloorani, A. (2013a). Integration of logistic regression, Markov chain and cellular automata models to simulate urban expansion. *International Journal of Applied Earth Observation and Geoinformation*, *21*, 265–275. https://doi.org/10.1016/j.jag.2011.12.014

Jokar Arsanjani, J., Helbich, M., Kainz, W., & Darvishi Boloorani, A. (2013b). Integration of logistic regression, Markov chain and cellular automata models to simulate urban expansion. *International Journal of Applied Earth Observation and Geoinformation*, *21*, 265–275. https://doi.org/10.1016/j.jag.2011.12.014

June, T., Ma'rufah, U., Faqih, A., Koesmaryono, Y., Ali, A. A., & Knohl, A. (2023). Projection of further expansion of oil palm plantation in Jambi Province. *Jurnal Pengelolaan Sumberdaya Alam Dan Lingkungan (Journal of Natural Resources and Environmental Management)*, *13*(3), 484–493. https://doi.org/10.29244/jpsl.13.3.484-493

Kadam, S., Kadam, A., Jamdade, S., Rathi, N., Gadilkar, A., ohri, C., Gujar, J., & Kale, R. (2025a). Evaluation of Random Forest algorithms for mapping of land use land cover using remote sensing data for Baitarani River. *International Journal of Information Technology*, *17*(6), 3639–3648. https://doi.org/10.1007/s41870-025-02411-5

Kadam, S., Kadam, A., Jamdade, S., Rathi, N., Gadilkar, A., ohri, C., Gujar, J., & Kale, R. (2025b). Evaluation of Random Forest algorithms for mapping of land use land cover using remote sensing data for Baitarani River. *International Journal of Information Technology*, *17*(6), 3639–3648. https://doi.org/10.1007/s41870-025-02411-5

Kamagate, A., Koffi, E. S., & Koffi, Y. B. (2025). Use of the LCM Model in the prospective simulation of land use in the Nafoun watershed (Northern Ivory Coast). *E3S Web of Conferences*, *607*, 05002. https://doi.org/10.1051/e3sconf/202560705002

Kanza, R., Ahmada, A., Darsono, S., & Atmodjo, S. (2017). Pengendalian Banjir Sungai Wulan, Demak, Jawa Tengah. *Jurnal Karya Teknik Sipil*, *6*, 300–308. http://ejournal-s1.undip.ac.id/index.php/jkts

Kemenkes Sekretariat Jenderal Pusat Krisis Kesehatan. (2024). *Laporan Harian Pemantauan*.

UNIVERSITAS
GADJAH MADA
**PERENCANAAN WILAYAH BERBASIS MITIGASI BENCANA BANJIR BERDASARKAN CITRA LANDSAT DI SEBAGIAN KABUPATEN DEMAK TAHUN 2002-2035**
MELLINIA REGINA HENI PRASTIWI, Dr. Sigit Heru Murti Budi Santosa., M.Si ; Dr. Sudaryatno., M.Si
**Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/**

Kementerian Kehutanan Republik Indonesia. (2009). *Keputusan Menteri Kehutanan Republik Indonesia Nomor:SK.328/Menhut-II/2009 Tentang Penetapan Daerah Aliran Sungai (DAS) Prioritas Dalam Rangka Rencana Pembangunan Jangka Menengah (RPJM) Tahun 2010-2014*.

Kementerian Pekerjaan Umum Direktorat Jenderal Sumber Daya Air Balai Besar Wilayah Sungai Pemali-Juana. (2013). *Tanggul Wulan Jebol Lagi, 1.663 Jiwa Mengungsi*.

Kementerian PUPR dan Bank Pembangunan Asia. (2023). *Indonesia: Flood Management in North Java Project Wulan River Flood Risk Management Subproject*.

Kinattinkara, S., Arumugam, T., Kuppusamy, S., & Krishnan, M. (2022). Land use/land cover changes of Noyyal watershed in Coimbatore district, India, mapped using remote sensing techniques. *Environmental Science and Pollution Research*, *29*(57), 86349–86361. https://doi.org/10.1007/s11356-022-18707-z

King, D., Gurtner, Y., Firdaus, A., Harwood, S., & Cottrell, A. (2016). Land use planning for disaster risk reduction and climate change adaptation. *International Journal of Disaster Resilience in the Built Environment*, *7*(2), 158–172. https://doi.org/10.1108/IJDRBE-03-2015-0009

Ku, C.-A. (2024). Evaluating the effects of land-use strategies on future flood risk reduction in urban areas. *Cities*, *150*, 104989. https://doi.org/10.1016/j.cities.2024.104989

Kumar, M. D., Lakshmi Bhavani, Y., Sahithi, V. S., Aditya Kumar, K., & Cheepulla, H. (2024). Analysing the Impact of Training Sample Size in Classification of Satellite Imagery. *2024 5th International Conference on Data Intelligence and Cognitive Informatics (ICDICI)*, 879–884. https://doi.org/10.1109/ICDICI62993.2024.10810826

Lacono, M., Levinson, D., El-Geneidy, A., & Wasfi, R. (2015). A Markov Chain Model of Land Use Change. *TeMA Journal of Land Use Mobility and Environment*, *8*(3), 263–276. https://doi.org/https://doi.org/10.6092/1970-9870/2985

Lavanya, K., Gondchar, A., Mathew, I. M., Sarda, S., Ananda Kumar, S., Mahendran, A., & Perera, D. G. (2023). Land Cover Classification Using Landsat 7 Data for Land Sustainability. *Wireless Personal Communications*, *132*(1), 679–697. https://doi.org/10.1007/s11277-023-10631-w

Leta, M. K., Demissie, T. A., & Tränckner, J. (2021a). Modeling and Prediction of Land Use Land Cover Change Dynamics Based on Land Change Modeler (LCM) in Nashe Watershed, Upper Blue Nile Basin, Ethiopia. *Sustainability*, *13*(7), 3740. https://doi.org/10.3390/su13073740

Leta, M. K., Demissie, T. A., & Tränckner, J. (2021b). Modeling and Prediction of Land Use Land Cover Change Dynamics Based on Land Change Modeler (LCM) in Nashe Watershed, Upper Blue Nile Basin, Ethiopia. *Sustainability*, *13*(7), 3740. https://doi.org/10.3390/su13073740

Li, L., Yang, J., & Wu, J. (2020). Future Flood Risk Assessment under the Effects of Land Use and Climate Change in the Tiaoxi Basin. *Sensors*, *20*(21), 6079. https://doi.org/10.3390/s20216079

Li, W., Lin, K., Zhao, T., Lan, T., Chen, X., Du, H., & Chen, H. (2019). Risk assessment and sensitivity analysis of flash floods in ungauged basins using coupled hydrologic and hydrodynamic models. *Journal of Hydrology*, *572*, 108–120. https://doi.org/10.1016/j.jhydrol.2019.03.002

Lillesand, T. M. ., Kiefer, R. W. ., & Chipman, J. W. . (2015). *Remote sensing and image interpretation*. Wiley.

Lismadanti, A., Christanto, N., & Effendi, I. (2024). Enhancing Watershed Management through Seasonal Water Yield Modelling using InVEST (Case Study: Rawa Pening

PERENCANAAN WILAYAH BERBASIS MITIGASI BENCANA BANJIR BERDASARKAN CITRA LANDSAT DI SEBAGIAN KABUPATEN DEMAK TAHUN 2002-2035
MELLINIA REGINA HENI PRASTIWI, Dr. Sigit Heru Murti Budi Santosa., M.Si ; Dr. Sudaryatno., M.Si
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Catchment Area). *In IOP Conference Series: Earth and Environmental Science* , *1313*(1), 012003.

Liu, C., & Li, Y. (2017). GIS-based dynamic modelling and analysis of flash floods considering land-use planning. *International Journal of Geographical Information Science*, *31*(3), 481–498. https://doi.org/10.1080/13658816.2016.1207774

Liu, J., Wang, J., Xiong, J., Cheng, W., Cui, X., He, W., He, Y., Duan, Y., Yang, G., & Wang, N. (2021). Dynamic Assessment of the Flood Risk at Basin Scale under Simulation of Land-Use Scenarios and Spatialization Technology of Factor. *Water*, *13*(22), 3239. https://doi.org/10.3390/w13223239

Louca, M., Vogiatzakis, I. N., & Moustakas, A. (2015). Modelling the combined effects of land use and climatic changes: Coupling bioclimatic modelling with Markov-chain Cellular Automata in a case study in Cyprus. *Ecological Informatics*, *30*, 241–249. https://doi.org/10.1016/j.ecoinf.2015.05.008

Lubis, M. I., Linkie, M., & Lee, J. S. H. (2024). Tropical forest cover, oil palm plantations, and precipitation drive flooding events in Aceh, Indonesia, and hit the poorest people hardest. *PloS One*, *19*(10), e0311759. https://doi.org/10.1371/journal.pone.0311759

Mantovani, J., Alcântara, E., Pampuch, L. A., Praga Baião, C. F., Park, E., Souza Custódio, M., Gozzo, L. F., & Bortolozo, C. A. (2024). Assessing flood risks in the Taquari-Antas Basin (Southeast Brazil) during the September 2023 extreme rainfall surge. *Npj Natural Hazards*, *1*(1), 9. https://doi.org/10.1038/s44304-024-00009-8

Marfai, M. A., Tyas, D. W., Nugraha, I., Fitriatul'Ulya, A., & Riasasi, W. (2016). The Morphodynamics of Wulan Delta and Its Impacts on the Coastal Community in Wedung Subdistrict, Demak Regency, Indonesia. *Journal of Environmental Protection*, *07*(01), 60–71. https://doi.org/10.4236/jep.2016.71006

Mejean, R., Paegelow, M., Saqalli, M., & Kaced, D. (2020). *Improving Business-as-Usual Scenarios in Land Change Modelling by Extending the Calibration Period and Integrating Demographic Data* (pp. 243–260). https://doi.org/10.1007/978-3-030-14745-7_14

Mirzaq, M. R., Rijal, S., Soma, A. S., & Chairil, A. (2024). Flood Mitigation Strategies: Integrating Hydrologic Engineering Systems- River Analysis Systems for Effective Management of Paremang Watershed. *Jurnal Sylva Lestari*, *12*(3), 801–817. https://doi.org/10.23960/jsl.v12i3.860

Mishra, S. K. ., & Singh, V. P. . (2013). *Soil Conservation Service Curve Number (SCS-CN) Methodology*.

Mishra, V. N., Rai, P. K., Prasad, R., Punia, M., & Nistor, M.-M. (2018). Prediction of spatio-temporal land use/land cover dynamics in rapidly developing Varanasi district of Uttar Pradesh, India, using geospatial approach: a comparison of hybrid models. *Applied Geomatics*, *10*(3), 257–276. https://doi.org/10.1007/s12518-018-0223-5

Misra, A. A. (2022). Classification of Remote Sensing Depending on Data Type, Source, Platform, and Imaging Media. In *Atlas of Structural Geological and Geomorphological Interpretation of Remote Sensing Images* (pp. 15–21). Wiley. https://doi.org/10.1002/9781119813392.ch2

Monsaputra, M. (2023). Analisis perubahan penggunaan lahan pertanian menjadi perumahan di kota Padang Panjang. *Tunas Agraria*, *6*(1), 1–11. https://doi.org/10.31292/jta.v6i1.200

Mozumder, C., Tripathi, N. K., & Losiri, C. (2016). Comparing three transition potential models: A case study of built-up transitions in North-East India. *Computers, Environment and Urban Systems*, *59*, 38–49. https://doi.org/10.1016/j.compenvurbsys.2016.04.009

UNIVERSITAS
GADJAH MADA
PERENCANAAN WILAYAH BERBASIS MITIGASI BENCANA BANJIR BERDASARKAN CITRA LANDSAT DI SEBAGIAN KABUPATEN DEMAK TAHUN 2002-2035
MELLINIA REGINA HENI PRASTIWI, Dr. Sigit Heru Murti Budi Santosa., M.Si ; Dr. Sudaryatno., M.Si
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Muhari, A. (2024, February 9). *Banjir Bandang di Kabupaten Demak, Upaya Evakuasi Terhambat Arus Deras*. Https://Bnpb.Go.Id/Berita/Banjir-Bandang-Di-Kabupaten-Demak-Upaya-Evakuasi-Terhambat-Arus-Deras.

Nguyen, L. B. (2020). Land cover change detection in northwestern Vietnam using Landsat images and Google Earth Engine. *Journal of Water and Land Development*, 162–169. https://doi.org/10.24425/jwld.2020.134209

Nicolai, B., Jin, G., Jiang, K., & Winer, C. (2010). Disaster assessment with parallel image processing for GIS based local area disaster decision support system. *Proceedings of the 1st International Conference and Exhibition on Computing for Geospatial Research & Application*, 1–4. https://doi.org/10.1145/1823854.1823901

Nika Purnomo, S., Widiyanto, W., Dwi Novyanto, A., & Indah Pratiwi, A. (2023). Flood disaster mitigation measure recommendations based on flood hazard and risk assessment: a case study in Brebes Regency, North Coast of Java. *E3S Web of Conferences*, *464*, 01018. https://doi.org/10.1051/e3sconf/202346401018

Nimr, O. A., Safitri, B., & Hassan, U. O. (2023). Flood Risk Assessment for Mpazi Basin Focusing on Land Use/Land Cover Alteration for the Kigali Master Plan 2050. *International Journal of Scientific and Research Publications*, *13*(4). https://doi.org/10.29322/IJSRP.13.04.2023.p13627

Oppelt, N. a. (2015). *Remotely Sensed Data Characterization, Classification, and Accuracies* (Ph. D. Thenkabail, Ed.). CRC Press. https://doi.org/10.1201/b19294

Panda, S. S., Rao, M. N., Thenkabail, P. S., Misra, D., & Fitzgerald, J. P. (2024). Remote Sensing Systems—Platforms and Sensors. In *Remote Sensing Handbook, Volume I* (pp. 3–86). CRC Press. https://doi.org/10.1201/9781003541141-2

Park, K., & Lee, M.-H. (2019). The Development and Application of the Urban Flood Risk Assessment Model for Reflecting upon Urban Planning Elements. *Water*, *11*(5), 920. https://doi.org/10.3390/w11050920

Pasaribu, U. S., Virtriana, R., Deliar, A., & Sumarto, I. (2020). Driving-factors identification of land-cover change in west java using binary logistic regression based on geospatial data. *IOP Conference Series: Earth and Environmental Science*, *500*(1), 012003. https://doi.org/10.1088/1755-1315/500/1/012003

Petroselli, A., Vojtek, M., & Vojteková, J. (2019). Flood mapping in small ungauged basins: a comparison of different approaches for two case studies in Slovakia. *Hydrology Research*, *50*(1), 379–392. https://doi.org/10.2166/nh.2018.040

Pontius, R. G. (2000). Quantification error versus location error in comparison of categorical maps. *Photogrammetric Engineering and Remote Sensing*, *66*(8).

Pramudita, A. (2025). West Java Governor Regulation on Land Use Change in Relevance to Environment and Disaster Risk. *Infonomics Journal of the Business and Informatics Faculty*, *1*(1).

Prastiwi, M. R. H., & Bachri, S. (2026). Analisis Spasial Perubahan Penggunaan Lahan Menggunakan Model CLUE-S untuk Prediksi Limpasan Permukaan di Kota Malang. *Jurnal Wilayah Dan Lingkungan*, *14*(1), 34–54. https://doi.org/10.14710/jwl.14.1.34-54

Presiden Republik Indonesia. (2022). *Peraturan Presiden Republik Indonesia Nomor 60 Tahun 2022 Tentang Rencana Tata Ruang Kawasan Strategis Nasional Kawasan Perkotaan Kendal, Demak, Ungaran, Salatiga, Semarang dan Purwodadi*.

Pusat Data Informasi dan Komunikasi Kebencanaan Badan Nasional Penanggulangan Bencana. (2025). *Data Bencana Indonesia 2024*.

Putra, A. P. (2011). Penataan ruang berbasis mitigasi bencana Kabupaten Kepulauan Mentawai. *Jurnal Dialog Penanggulangan Bencana*, *2*(1), 11–20.

PERENCANAAN WILAYAH BERBASIS MITIGASI BENCANA BANJIR BERDASARKAN CITRA LANDSAT DI SEBAGIAN KABUPATEN DEMAK TAHUN 2002-2035
MELLINIA REGINA HENI PRASTIWI, Dr. Sigit Heru Murti Budi Santosa., M.Si ; Dr. Sudaryatno., M.Si
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Qin, M., Xie, Y., Hua, S., Liu, Z., & Gao, P. (2025). Are ROC-improved logistic regressions beneficial to statistical models of land change? A counter example. *Annals of GIS*, *31*(4), 585–605. https://doi.org/10.1080/19475683.2025.2523736

Rahmawaty, M. A., & Hasan, A. F. (2023). Mapping The Location of Flood Shelters in Demak Regency using The Spatial Multi Criteria Evaluation Method. *IOP Conference Series: Earth and Environmental Science*, *1264*(1), 012010. https://doi.org/10.1088/1755-1315/1264/1/012010

Rijal, S., Nursaputra, M., Chairil, A., & Dari, H. U. (2024). Flood Susceptibility Analysis Using Frequency Ratio Method in Walanae Watershed. *International Journal of Sustainable Development and Planning*, *19*(3), 823–832. https://doi.org/10.18280/ijsdp.190302

Robertson, N., & Bakimchandra, O. (2024). Comparative assessment of land use land cover at different temporal scales in Imphal-Iril river catchment, Manipur, India. *Remote Sensing Letters*, *15*(6), 655–666. https://doi.org/10.1080/2150704X.2024.2365810

Rostami, N., & Fathizad, H. (2022). Spatial and temporal changes of land uses and its relationship with surface temperature in western Iran. *Atmósfera*, *35*(4), 701–717. https://doi.org/10.20937/ATM.52985

Roziqin, A., & Kusumawati, N. I. (2017). Analisis Pola Permukiman Menggunakan Data Penginderaan Jauh di Pulau Batam. *Industrial Research Workshop and National Seminar*.

Sachdeva, R. K., Bathla, P., Rani, P., Lamba, R., Ghantasala, G. S. P., & Nassar, I. F. (2024). A novel K-nearest neighbor classifier for lung cancer disease diagnosis. *Neural Computing and Applications*, *36*(35), 22403–22416. https://doi.org/10.1007/s00521-024-10235-w

Saeed, F., & Zaidi, A. (2022). Application of Geohecras for 2D Flood Modeling of Downstream of Guddu Barrage. *IGARSS 2022 - 2022 IEEE International Geoscience and Remote Sensing Symposium*, 5543–5546. https://doi.org/10.1109/IGARSS46834.2022.9883618

Sasongko, G., Huruta, A. D., & Wardani, A. (2019). Does the Wagner's Law exist in a strategic national area? An evidence from Kedungsepur-Indonesia. *Insights into Regional Development*, *1*(2), 99–117.

Shahi, E., Karimi, S., & Jafari, H. R. (2020). Monitoring and modeling land use/cover changes in Arasbaran protected Area using and integrated Markov chain and artificial neural network. *Modeling Earth Systems and Environment*, *6*(3), 1901–1911. https://doi.org/10.1007/s40808-020-00801-1

Sharma, N., & Chawla, S. (2023). Digital Change Detection Analysis Criteria and Techniques used for Land Use and Land Cover Classification in Agriculture. *2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)*, 331–335. https://doi.org/10.1109/ICACITE57410.2023.10182604

Sharma, N., & Kaur, K. (2025). Satellite data and machine learning in agricultural land use: A comprehensive review of LULC classification techniques. In *Progressive Computational Intelligence, Information Technology and Networking* (pp. 357–363). CRC Press. https://doi.org/10.1201/9781003650010-58

Shi, T.-T. and X. H.-Q. and T. F. (2017). Built-up land change and its impact on ecological quality in a fast-growing economic zone: Jinjiang County, Fujian Province, China. *Chinese Journal of Applied Ecology*, *28*.

Sholarin, E. A., & Awange, J. L. (2015). *Remote Sensing* (pp. 231–238). https://doi.org/10.1007/978-3-319-27651-9_11

UNIVERSITAS GADJAH MADA
**PERENCANAAN WILAYAH BERBASIS MITIGASI BENCANA BANJIR BERDASARKAN CITRA LANDSAT DI SEBAGIAN KABUPATEN DEMAK TAHUN 2002-2035**
MELLINIA REGINA HENI PRASTIWI, Dr. Sigit Heru Murti Budi Santosa., M.Si ; Dr. Sudaryatno., M.Si
**Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/**

Shrestha, B. B. (2019). Approach for Analysis of Land-Cover Changes and Their Impact on Flooding Regime. *Quaternary*, *2*(3), 27. https://doi.org/10.3390/quat2030027

Singh, Y., Agrawal, H. K., & Kumar, N. (2024). SVM Based Risk Estimation in Heart Disease Prediction. *2024 14th International Conference on Cloud Computing, Data Science & Engineering (Confluence)*, 593–598. https://doi.org/10.1109/Confluence60223.2024.10463271

Siregar, R. I. (2018a). Land cover change impact on urban flood modeling (case study: *Upper Citarum watershed* ). *IOP Conference Series: Earth and Environmental Science*, *126*, 012027. https://doi.org/10.1088/1755-1315/126/1/012027

Siregar, R. I. (2018b). Numerical Analysis of Flood modeling of upper Citarum River under Extreme Flood Condition. *IOP Conference Series: Materials Science and Engineering*, *308*, 012023. https://doi.org/10.1088/1757-899X/308/1/012023

Socas, R. A. M., González, M. A., Marín, Y. R., Castillo-García, C. L., Jiménez, J., da Silva, L. das D. de J., & González-Rodríguez, L. (2023). Simulating the Flood Limits of Urban Rivers Embedded in the Populated City of Santa Clara, Cuba. *Water*, *15*(10), 1805. https://doi.org/10.3390/w15101805

Spor, P., Paşa, Y., & Doğan, E. (2025). Evaluation of Simulation Results of HEC-RAS Coupled 1D/2D and 2D Modeling Approaches Through Scenario-Based Analysis. *Water*, *17*(8), 1163. https://doi.org/10.3390/w17081163

Sridhar, P., Anil, K., Raju, J. N. S. S., & Ramana, K. V. (2025). Land Use and Land Cover Classification using Support Vector Machine Technique: A Case Study of Kaddam Watershed. *Disaster Advances*, *18*(6), 1–6. https://doi.org/10.25303/186da0106

Sriyana, S. (2011). Kajian Karakteristik DAS Tuntang dan Model Pengelolaan DAS Terpadu. *Teknik*, *32*(3), 180–186.

Sulaimn, E. A., Hasab, H. A., & Jabbar, M. A. (2024). *Remote sensing techniques and GIS for monitoring and environmental variations of land in Southern Iraq*. 060001. https://doi.org/10.1063/5.0200060

Sumaryatno, B. F. (2014). *Penggunaan Metode Soil Conservation Service–Curve Number (SCS–CN) dalam Menduga Limpasan Permukaan di DAS Ciliwung*.

Sun, Q., Fang, J., Dang, X., Xu, K., Fang, Y., Li, X., & Liu, M. (2022). Multi-scenario urban flood risk assessment by integrating future land use change models and hydrodynamic models. *Natural Hazards and Earth System Sciences*, *22*(11), 3815–3829. https://doi.org/10.5194/nhess-22-3815-2022

Suriadikusumah, A., Mulyono, A., & Maulana, M. H. R. (2022). Prediction of Bandung District Land Use Change Using Markov Chain Modeling. *International Journal on Advanced Science, Engineering and Information Technology*, *12*(1), 237–243. https://doi.org/10.18517/ijaseit.12.1.12384

Tak, K., & Chaturvedi, S. (2024). *Google Earth Engine Based Comparative Assessment of Supervised Classifiers for Land Cover Mapping* (pp. 271–283). https://doi.org/10.1007/978-3-031-74701-4_19

Tangge, N., Hartati, T., Idris, S., & Nengkeula, D. (2025). Arahan Penggunaan Lahan Berbasis Kemampuan Lahan Menggunakan Metode Land Classification and Landuse Planning. *Jurnal Penelitian Pendidikan Geografi*, *10*(1).

Tatem, A. J., Nayar, A., & Hay, S. I. (2006). Scene selection and the use of NASA's global orthorectified Landsat dataset for land cover and land use change monitoring. *International Journal of Remote Sensing*, *27*(14), 3073–3078. https://doi.org/10.1080/01431160600589195

Taufique, M., & Khursheed, V. (2022). Monitoring Land Use/Land Cover Change Dynamics Using Remote Sensing and Geospatial Techniques in Rambiara Catchment,

PERENCANAAN WILAYAH BERBASIS MITIGASI BENCANA BANJIR BERDASARKAN CITRA LANDSAT DI SEBAGIAN KABUPATEN DEMAK TAHUN 2002-2035
MELLINIA REGINA HENI PRASTIWI, Dr. Sigit Heru Murti Budi Santosa., M.Si ; Dr. Sudaryatno., M.Si
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Kashmir Valley, India. In *Towards Sustainable Natural Resources* (pp. 105–121). Springer International Publishing. https://doi.org/10.1007/978-3-031-06443-2_7

Triatmodjo, B. (2006). *Hidraulika II*. Beta Offset.

Tuharyati, Y., Dhefiatul Jannah, A., & Triagustin, S. A. (2023). Bencana Banjir: Pengendalian Dan Pemanfaatan Ruang Pasca berlakunya UU Cipta Kerja. *Pubmedia Social Sciences and Humanities*, *1*(1). https://doi.org/10.47134/pssh.v1i1.11

U.S. Army Corps of Engineers (USACE). (2023). *HEC-RAS 2D User's Manual*.

Utami, A. T. (2025). *Pemetaan Perubahan Penggunaan Lahan Tambak Menggunakan Metode Klasifikasi Machine Learning Studi Kasus: Sebagian Wilayah Pesisir Kabupaten Demak Tahun 2015 Dan 2024*. Universitas Gadjah Mada.

Valery Allen, R., & Syahfitra, M. (2025). Pemanfaatan Data Penginderaan Jauh dan Sistem Informasi Geografis (SIG) untuk Pemantauan Penggunaan Lahan di Kabupaten Limapuluhkota. *Atech-i*, *2*(2), 40–48. https://doi.org/10.55043/atech-i.v2i2.37

Viera, Anthony J and Garrett, & Joanne M. (2005). Understanding interobserver agreement: the kappa statistic. *Fam Med*, *37*(5), 360–363.

Virtriana, R., Retnowati, D. A., Rohayani, P., Anggraini, T. S., Ihsan, K. T. N., Harto, A. B., & Riqqi, A. (2023). Comparative Analysis Of The Mcda And Gfi Methods In Determining Flood-Prone Areas In Jatinangor District, Sumedang. *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, *XLVIII-M-3–2023*, 261–266. https://doi.org/10.5194/isprs-archives-XLVIII-M-3-2023-261-2023

Wang, H., Stephenson, S. R., & Qu, S. (2019). Modeling spatially non-stationary land use/cover change in the lower Connecticut River Basin by combining geographically weighted logistic regression and the CA-Markov model. *International Journal of Geographical Information Science*, *33*(7), 1313–1334. https://doi.org/10.1080/13658816.2019.1591416

Wang, S., & Zheng, X. (2023). Dominant transition probability: combining CA-Markov model to simulate land use change. *Environment, Development and Sustainability*, *25*(7), 6829–6847. https://doi.org/10.1007/s10668-022-02337-z

Wang, X., Chen, W., Yin, J., Wang, L., & Guo, H. (2024). Risk assessment of flood disasters in the Poyang lake area. *International Journal of Disaster Risk Reduction*, *100*(104208).

Zalmita, N., Alvira, Y., & Furqan, M. H. (2020). Analisis Perubahan Penggunaan Lahan Menggunakan Sistem Informasi Geografis (Sig) Di Gampong Alue Naga Kecamatan Syiah Kuala Tahun 2004-2019. *JURNAL GEOGRAFI*, *9*(1), 1. https://doi.org/10.24036/geografi/vol9-iss1/920

Zeng, Z., Tang, G., Hong, Y., Zeng, C., & Yang, Y. (2017). Development of an NRCS curve number global dataset using the latest geospatial remote sensing data for worldwide hydrologic applications. *Remote Sensing Letters*, *8*(6), 528–536. https://doi.org/10.1080/2150704X.2017.1297544

Zhao, Z., Islam, F., Waseem, L. A., Tariq, A., Nawaz, M., Islam, I. U., Bibi, T., Rehman, N. U., Ahmad, W., Aslam, R. W., Raza, D., & Hatamleh, W. A. (2024). Comparison of Three Machine Learning Algorithms Using Google Earth Engine for Land Use Land Cover Classification. *Rangeland Ecology & Management*, *92*, 129–137. https://doi.org/10.1016/j.rama.2023.10.007

Zhou, L., Dang, X., Sun, Q., & Wang, S. (2020). Multi-scenario simulation of urban land change in Shanghai by random forest and CA-Markov model. *Sustainable Cities and Society*, *55*, 102045. https://doi.org/10.1016/j.scs.2020.102045