

DAFTAR PUSTAKA

1. N. Azizah, & T. Suheri. (2020). *IDENTIFIKASI KARAKTERISTIK FISIK DAN MASYARAKAT DALAM MENGELOLA KAWASAN PERMUKIMAN SEMPADAN SUNGAI*.
2. Acharki, S. (2022). PlanetScope contributions compared to Sentinel-2, and Landsat-8 for LULC mapping. *Remote Sensing Applications: Society and Environment*, 27. <https://doi.org/10.1016/j.rsase.2022.100774>
3. Acyuta Putri Nariswari, Wara Indira Rukmi, & Wulan Dwi Purnamasari. (2025). *KARAKTERISTIK PERMUKIMAN KAWASAN SEMPADAN PANTAI PUTRI NARISWARIS*.
4. Akin, A., Erdoğan, N., Berberoğlu, S., Çilek, A., Erdoğan, A., Donmez, C., & Şatir, O. (2022). Evaluating the efficiency of future crop pattern modelling using the CLUE-S approach in an agricultural plain. *Ecological Informatics*, 71. <https://doi.org/10.1016/j.ecoinf.2022.101806>
5. Appelt, J. L., Rojas, D. C. G., Verburg, P. H., & Van Vliet, J. (2022). Socioeconomic outcomes of agricultural land use change in Southeast Asia. <https://doi.org/10.1007/s13280>
6. Arrafi, M., Firyal Salma, N., Studi Magister Penginderaan Jauh, P., Geografi UGM, F., & Perencanaan Wilayah dan Kota, I. (2025). *Geomedia Majalah Ilmiah dan Informasi Kegeografian Monitoring fenomena urban sprawl dan prediksi perubahan tutupan lahan menggunakan citra landsat 8 di Kota Jambi (Vol. 23, Number 2)*. <https://journal.uny.ac.id/index.php/geomedia/index>
7. Azizah Nazhifah, S., Putri, A., & Kiftiyani, U. (2025). *COMPARATIVE EVALUATION OF NDVI-BASED VEGETATION CLASSIFICATION USING RULE-BASED APPROACH AND RANDOM FOREST MODELS*. *Jurnal Pendidikan Teknologi Informasi*, 9(2), 22–32.
8. Badan Standardisasi Nasional. (2010a). Sni 7645:2010. Sni 7645:2010, 1–28.
9. Badan Standardisasi Nasional. (2010b). *Standar Nasional Indonesia Klasifikasi penutup lahan SNI 7645:2010*. www.bsn.go.id
10. Baderan, D. W. K. (2017). Distribusi Spasial dan Luas Kerusakan Hutan Mangrove di Wilayah Pesisir Kwandang Kabupaten Gorontalo Utara Provinsi Gorontalo. *Jurnal GeoEco*, 3(1), 1–8.
11. BPS, K. G. U. (2025). *Gorontalo Utara Dalam Angka 2025 (Vol. 17)*.
12. Burra, D. D., Parker, L., Than, N. T., Phengsavanh, P., Long, C. T. M., Ritzema, R. S., Sagemueller, F., & Douxchamps, S. (2021). Drivers of land use complexity along an agricultural transition gradient in Southeast Asia. *Ecological Indicators*, 124. <https://doi.org/10.1016/j.ecolind.2021.107402>
13. Cao, H., & Kim, E. (2025). Analysis of Influencing Factors on Spatial Distribution Characteristics of Traditional Villages in the Liaoxi Corridor. *Land*, 14(8). <https://doi.org/10.3390/land14081572>
14. Chasia, S., Olang, L. O., & Sitoki, L. (2023). Modelling of land-use/cover change trajectories in a transboundary catchment of the Sio-Malaba-Malakisi Region in East Africa using the CLUE-s model. *Ecological Modelling*, 476. <https://doi.org/10.1016/j.ecolmodel.2022.110256>
15. da Rocha de Souza, E. M. F., Gomes, A. A. T., & Viegas, V. S. (2025). Urban Growth in Metropolitan Regions Using Dynamic Modeling by Cellular Automata: A Comparative Analysis Between Brazil and Portugal. *International Conference on Geographical Information Systems Theory, Applications and Management, GISTAM - Proceedings*, (Gistam), 142–149. <https://doi.org/10.5220/0013205000003935>
16. de Bremond, A. (2021). The emergence of land systems as the nexus for sustainability transformations: This article belongs to *Ambio's 50th Anniversary Collection*. Theme: Agriculture land use. *Ambio*, 50(7), 1299–1303. <https://doi.org/10.1007/s13280-021-01519-9>
17. Dharma, F., Aulia, A., Shubhan, F., & Ridwana, R. (2022). Pemanfaatan Citra Sentinel - 2 Dengan Metode NDVI Untuk Perubahan Kerapatan Vegetasi Mangrove Di Kabupaten Indramayu. *J Pendidikan Geografi Undiksha*, 10(2), 155–165.
18. Fajar Agung Mulia, & Aldri Frinaldi. (2024). *PEMANFAATAN RUANG PADA SEMPADAN SUNGAI FAJAR AGUNG MULIA*.
19. Fei, L., Bin, M., & Yibin, W. (2025). Agricultural land system transition based on resilience and vitality: A case study on the Loess Plateau (Yulin, China). *Journal of Rural Studies*, 117. <https://doi.org/10.1016/j.jrurstud.2025.103643>
20. Ghasemnejad, A., Khoshbakht, K., Mahmoudi, H., & Sayahnia, R. (2024). Assessing the trends and drivers of agricultural land use change in the Ramsar County, northern Iran. *Environmental and Sustainability Indicators*, 22. <https://doi.org/10.1016/j.indic.2024.100410>
21. Ghayour, L., Neshat, A., Paryani, S., Shahabi, H., Shirzadi, A., Chen, W., Al-Ansari, N., Geertsema, M., Amiri, M. P., Gholamnia, M., Dou, J., & Ahmad, A. (2021). Performance evaluation of sentinel-2 and landsat 8 OLI data for land cover/use classification using a comparison between machine learning algorithms. *Remote Sensing*, 13(7). <https://doi.org/10.3390/rs13071349>
22. Giofandi, E. A., Sekarjati, D., Tjahjono, B., Hidiya, M., & Mulyono, M. R. (2025). Long-term land use dynamics and scenario-based planning for sustainable development in the dumai river basin, Western Indonesia. *Journal of Umm Al-Qura University for Applied Sciences*. <https://doi.org/10.1007/s43994-025-00296-5>

23. Gonzales, J. E. V., & Hopfgartner, K. (2024). Modeling future projections of land use and land cover in the Kakataibo territory. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, 48(3), 571–576. <https://doi.org/10.5194/isprs-archives-XLVIII-3-2024-571-2024>
24. Haris Hadi, A., Utami, W., & Retno Dewi, A. (2022). ANALISIS SPASIAL PERUBAHAN PENGGUNAAN LAHAN AKIBAT PEMBANGUNAN JALAN LINGKAR KUDUS DI DESA JATI WETAN. 10(2), 211–226. <http://journal.ummat.ac.id/index.php/geography>
25. Iskandar, Z. S., Abdurrahman, U., & Nandi, N. (2025). Urban Expansion and Land Cover Changes in the Special Region of Yogyakarta: The Impact of Transportation and Tourist Attractions. *Jurnal Geografi Gea*, 25(2, October), 131–146. <https://doi.org/10.17509/gea.v25i2.85969>
26. Jiang, W., Chen, Z., Lei, X., Jia, K., & Wu, Y. (2015). Simulating urban land use change by incorporating an autologistic regression model into a CLUE-S model. *Journal of Geographical Sciences*, 25(7), 836–850. <https://doi.org/10.1007/s11442-015-1205-8>
27. Juniyanti, L., Prasetyo, L. B., Aprianto, D. P., Purnomo, H., & Kartodihardjo, H. (2020). Land-use/land cover change and its causes in Bengkalis Island, Riau Province (from 1990-2019). *Jurnal Pengelolaan Sumberdaya Alam Dan Lingkungan*, 10(3), 419–435. <https://doi.org/10.29244/jpsl.10.3.419-435>
28. Kawamuna, A., Suprayogi, A., & Putra Wijaya, A. (2017). Analisis Kesehatan Hutan Mangrove Berdasarkan Metode Klasifikasi NDVI Pada Citra Sentinel-2 (Studi Kasus: Teluk Pangpang Kabupaten Banyuwangi). In *Jurnal Geodesi Undip Januari* (Vol. 6, Number 1). <https://scihub.copernicus.eu/>
29. Kusumawardani, Y. N., Soesanta, P. E., & Hamzah, A. H. P. (2025). Permukiman Tepi Sungai Ilegal: Dampak Kondisi Sosial-Ekonomi, Ketidakstabilan Ekonomi, Ketidakadilan Spasial Perkotaan dan Kebijakan Pemerintah. *SENTRI: Jurnal Riset Ilmiah*, 4(9), 2068–2080. <https://doi.org/10.55681/sentri.v4i9.4530>
30. Laporan Revisi Rencana Tata Ruang Wilayah Kabupaten Gorontalo Utara. (n.d.).
31. Latief, R. (2022). Perubahan Fungsi Lahan Kawasan Lindung Menjadi Kawasan Budidaya Di Kelurahan Malino Kecamatan Tinggimoncong Kabupaten Gowa. *Jurnal Ilmiah Ecosystem*, 22(2), 330–335. <https://doi.org/10.35965/eco.v22i2.1561>
32. Latue, P. C., Septory, J. S. I., & Rakuasa, H. (2023). Perubahan Tutupan Lahan Kota Ambon Tahun 2015, 2019 dan 2023. *JPG (Jurnal Pendidikan Geografi)*, 10(1), 177–186. <https://doi.org/10.20527/jpg.v10i1.15472>
33. Liou, Y. A., Tran, D. P., & Nguyen, K. A. (2024). Spatio-temporal patterns and driving forces of surface urban heat island in Taiwan. *Urban Climate*, 53. <https://doi.org/10.1016/j.uclim.2024.101806>
34. Liu, J., Hu, Y., Feng, Z., & Xiao, C. (2025a). A Review of Land Use and Land Cover in Mainland Southeast Asia over Three Decades (1990–2023). In *Land* (Vol. 14, Number 4). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/land14040828>
35. Liu, J., Hu, Y., Feng, Z., & Xiao, C. (2025b). A Review of Land Use and Land Cover in Mainland Southeast Asia over Three Decades (1990–2023). In *Land* (Vol. 14, Number 4). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/land14040828>
36. Long, H. (2022). Theorizing land use transitions: A human geography perspective. *Habitat International*, 128. <https://doi.org/10.1016/j.habitatint.2022.102669>
37. Long, H., Kong, X., Hu, S., & Li, Y. (2021). Land use transitions under rapid urbanization: A perspective from developing china. In *Land* (Vol. 10, Number 9). MDPI. <https://doi.org/10.3390/land10090935>
38. Long, H., & Qu, Y. (2018). Land use transitions and land management: A mutual feedback perspective. *Land Use Policy*, 74, 111–120. <https://doi.org/10.1016/j.landusepol.2017.03.021>
39. Long, H., Zhang, Y., Ma, L., & Tu, S. (2021). Land use transitions: Progress, challenges and prospects. In *Land* (Vol. 10, Number 9). MDPI. <https://doi.org/10.3390/land10090903>
40. Marlina, D. (2022). Klasifikasi Tutupan Lahan pada Citra Sentinel-2 Kabupaten Kuningan dengan NDVI dan Algoritme Random Forest. *STRING (Satuan Tulisan Riset Dan Inovasi Teknologi)*, 7(1), 41. <https://doi.org/10.30998/string.v7i1.12948>
41. Mulkal, Rizkya, P., Aflah, N., & Muchlis. (2024). EXPLORING THE ROLE OF SPECTRAL INDICES ON IMPROVING LAND COVER CLASSIFICATION ACCURACY BASED ON SENTINEL-2 SATELLITE IMAGERY IN BANDA ACEH CITY, INDONESIA. *Indonesian Journal of Environmental Sustainability*, 2(2), 96–107. <https://doi.org/10.22373/ijes.v2i2.5957>
42. Nagendra, H., Tucker, C., Carlson, L., Southworth, J., Karmacharya, M., & Karna, B. (2004). Monitoring parks through remote sensing: Studies in Nepal and Honduras. *Environmental Management*, 34(5), 748–760. <https://doi.org/10.1007/s00267-004-0028-7>
43. Novianti, T. C. (2021). Geografi Klasifikasi Landsat 8 Oli Untuk Tutupan Lahan Di Kota Palembang. *Jurnal Swarnabhumi*, 6(1), 75–85.
44. Nursaputra, M., Putra Pahar, S. P., & Chairil, A. (2021). Identification of drought level using Normalized Difference Latent Heat Index in the South Coast of South Sulawesi Province. *IOP*

Conference Series: Earth and Environmental Science, 807(2). <https://doi.org/10.1088/1755-1315/807/2/022032>

45. Pandapotan Sinurat, T., Munibah, K., Dwi Putro Tejo Baskoro, dan, Kehutanan dan Lingkungan Hidup, D., Raya Bonandolok, J. K., & Perkantoran Purba Dolok-Doloksanggul Kab Humbang Hasundutan Prov Sumatera Utara, K. (2015). Modeling Land-Use Change in Humbang Hasundutan District Using Clue-S. 17(2), 75–82.
46. Pinto, L. V., Inácio, M., & Pereira, P. (2025). MetodeX Protokol untuk memodelkan skenario penggunaan lahan di masa depan dengan menggunakan Dinamica-EGO ". 14.
47. Prasetyo, D., Luvian Fatah, F., Bashit, N., & Hadi, F. (2025). ELIPSOIDA: Jurnal Geodesi dan Geomatika. In Jurnal Geodesi dan Geomatika (Vol. 08, Number 01).
48. Puspita Mega Lestari Effendi, A. A. (2014). DAMPAK PEMBANGUNAN INFRASTRUKTUR JALAN DAN VARIABEL EKONOMI LAIN TERHADAP LUAS LAHAN SAWAH DI KORIDOR EKONOMI JAWA.
49. Putri, E. S., Widiyari, A., Karim, R. A., Somantri, L., & Ridwana, R. (2021). Pemanfaatan Citra Sentinel-2 Untuk Analisis Gunung Manglayang. Jurnal Jurusan Pendidikan Geografi, 9(2), 133–143.
50. Rahadi, W. H., Suharto, I. E., Hidayat, M. F., Hut, S., Si, M., Kehutanan, J., & Pertanian, F. (2024). ESTIMATION OF CARBON STOCK USING NDVI ANALYSIS (NORMALIZED DIFFERENCE VEGETATION INDEX) IN FOREST AREAS WITH SPECIAL OBJECTIVES BENGKULU UNIVERSITY REGENCY NORTH BENGKULU ESTIMASI CADANGAN KARBON MENGGUNAKAN ANALISIS NDVI (NORMALIZED DIFFERENCE VEGETATION INDEX) DI KAWASAN HUTAN DENGAN TUJUAN KHUSUS UNIVERSITAS BENGKULU KABUPATEN BENGKULU UTARA. Journal of Global Forest and Environmental Science, 4(1).
51. Rahmawati, S. S., Setyowati, R., Ramlah, Azizah, S. N., Ardiansyah, R. M. Y., & Saikhu, A. (2025). PEMODELAN PERUBAHAN LAHAN DAN TUTUPAN LAHAN BERBASIS MARKOV-CHAIN DI KABUPATEN GUNUNG KIDUL. Jurnal Tanah Dan Sumberdaya Lahan, 12(2), 417–424. <https://doi.org/10.21776/ub.jtsl.2025.012.2.19>
52. Rakhmat Awaliyan, M., Yohanes Budi Sulistioadi, dan, Pemantapan Kawasan Hutan Wialayh Samarinda, B. I., Kehutanan, F., & Mulawarman, U. (2018). Klasifikasi Penutupan Lahan Pada Citra Satelit Sentinel-2A Dengan Metode Tree Algorithm (Vol. 2, Number 2).
53. Riaz, M. T., Riaz, M. T., Rehman, A., Bindajam, A. A., Mallick, J., & Abdo, H. G. (2024). An integrated approach of support vector machine (SVM) and *Weight of Evidence* (WOE) techniques to map groundwater potential and assess water quality. Scientific Reports, 14(1). <https://doi.org/10.1038/s41598-024-76607-3>
54. Rizqon, M. (2020). Aplikasi Citra Sentinel-2A untuk Klasifikasi Tutupan Lahan di Kabupaten Jember Menggunakan NDVI. In Skripsi.
55. Rofi Nurhadi, & Suhattanto, A. (2025). Dinamika Perubahan Tutupan Lahan dan Tantangan Kebijakan Tata Ruang di Kabupaten Wonogiri, Jawa Tengah, Indonesia. In Widya Bhumi (Vol. 5, Number 2).
56. Rondhi, M., Pratiwi, P. A., Handini, V. T., Sunartomo, A. F., & Budiman, S. A. (2018a). Agricultural land conversion, land economic value, and sustainable agriculture: A case study in East Java, Indonesia. Land, 7(4). <https://doi.org/10.3390/land7040148>
57. Rondhi, M., Pratiwi, P. A., Handini, V. T., Sunartomo, A. F., & Budiman, S. A. (2018b). Agricultural land conversion, land economic value, and sustainable agriculture: A case study in East Java, Indonesia. Land, 7(4). <https://doi.org/10.3390/land7040148>
58. Santoso, D. H., Puryani, P., Algary, T. A., & Chaeron, M. (2025). Land Use Change and Environmental Impacts: a Bibliometric Analysis. Jurnal Pembangunan Wilayah Dan Kota, 21(4), 498–515. <https://doi.org/10.14710/pwk.v21i4.72035>
59. Setiawan, M. S., & Rijal, S. (2024). Penyusunan Model Volume Hutan Alam dengan menggunakan Sentinel 2A di Hutan Pendidikan Universitas Hasanuddin. 1(1), 1–13.
60. Shahfahad, Talukdar, S., Naikoo, M. W., & Rahman, A. (2024). Urban expansion and vegetation dynamics: The role of protected areas in preventing vegetation loss in a growing mega city. Habitat International, 150. <https://doi.org/10.1016/j.habitatint.2024.103129>
61. Soares-Filho, B. S., Rodrigues, H., Costa, W., Ferreira, B., Machado, R., & Figueira, D. (2013). Dinamica Ego.
62. van Deventer, H., Linström, A., Naidoo, L., Job, N., Sieben, E. J. J., & Cho, M. A. (2022). Comparison between Sentinel-2 and WorldView-3 sensors in mapping wetland vegetation communities of the Grassland Biome of South Africa, for monitoring under climate change. Remote Sensing Applications: Society and Environment, 28. <https://doi.org/10.1016/j.rsase.2022.100875>
63. Varnier, M., & Weber, E. J. (2025). Evaluating the Accuracy of Land-Use Change Models for Predicting Vegetation Loss Across Brazilian Biomes. Land, 14(3), 1–25. <https://doi.org/10.3390/land14030560>

64. Wahdaniah, Sukirman Rahim, I. B. (2022). DAMPAK HUTAN TANAMAN INDUSTRI TERHADAP PERUBAHAN TUTUPAN LAHAN HUTAN DAN KONDISI SOSIAL EKONOMI MASYARAKAT. *Journal Of Forestry Research*, 5(1).
65. Wang, N., Du, Y., Liang, F., Yi, J., Qian, J., Tu, W., Huang, S., & Luo, P. (2023). Protected areas effectively resisted 33.8% of urban development pressures in China during 2000–2018. *Applied Geography*, 159. <https://doi.org/10.1016/j.apgeog.2023.103079>
66. Warlina, L. (2011). PEMODELAN PERUBAHAN GUNA LAHAN (KASUS KABUPATEN MAJALENGKA) Land Use Change Modeling (Case Study Of Kabupaten Majalengka). In VOLUME (Vol. 13).
67. Xu, J., Fox, J., Melick, D., Fujita, Y., Jintrawat, A., Jie, Q., Thomas, D., & Weyerhaeuser, H. (2006). Land use transition, livelihoods, and environmental services in Montane Mainland Southeast Asia. In *Mountain Research and Development* (Vol. 26, Number 3, pp. 278–284). [https://doi.org/10.1659/0276-4741\(2006\)26\[278:LUTLAE\]2.0.CO;2](https://doi.org/10.1659/0276-4741(2006)26[278:LUTLAE]2.0.CO;2)