

DAFTAR PUSTAKA

- Adfy, D.M., Marzuki, 2021, Analisis Kerawanan Bencana Longsor dari Karakteristik Hujan, Pergerakan Tanah dan Kemiringan Lereng di Kabupaten Agam, *Jurnal Fisika Unand*, Vol. 10, Hal. 8–14, DOI: 10.25077/jfu.10.1.8-14.2021.
- Afriani, L., 2021, *Kerawanan Longsor Pada Lereng Tanah Lunak dan Penanganannya*, Lakeisha, Bandar Lampung.
- Albert, G., Ammar, S., 2021, Application of random forest classification and remotely sensed data in geological mapping on the Jebel Meloussi area (Tunisia), *Arabian Journal of Geosciences*, Vol. 14, Hal. 1–13, DOI: 10.1007/s12517-021-08509-x.
- Amani, M., Ghorbanian, A., Ahmadi, S.A., Kakooei, M., Moghimi, A., Mirmazloumi, S.M., Moghaddam, S.H.A., Mahdavi, S., Ghahremanloo, M., Parsian, S., Wu, Q., Brisco, B., 2020, Google Earth Engine Cloud Computing Platform for Remote Sensing Big Data Applications: A Comprehensive Review, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, Vol. 13, Hal. 5326–5350, DOI: 10.1109/JSTARS.2020.3021052.
- Arsyad, S., 1989, *Konservasi Tanah dan Air*, IPB Press, Bogor.
- Badan Nasional Penanggulangan Bencana, 2023, Data Bencana Indonesia - Data Historis Longsor, *Geoportal Data Bencana Indonesia*. <https://gis.bnpb.go.id/Data-Bencana> (diakses 18-Mei-2024).
- Carlà, T., Intrieri, E., Raspini, F., Bardi, F., Farina, P., Ferretti, A., Colombo, D., Novali, F., Casagli, N., 2019, Perspectives on the Prediction of Catastrophic Slope Failures from Satellite InSAR, *Scientific Reports*, Vol. 9, Hal. 1–9, DOI: 10.1038/s41598-019-55024-x.
- Chen, Y., Yu, J., Khan, S., 2013, The Spatial Framework for Weight Sensitivity Analysis in AHP-Based Multi-Criteria Decision Making, *Environmental Modelling and Software*, Vol. 48, Hal. 129–140, DOI: 10.1016/j.envsoft.2013.06.010.
- Dinas Geologi Teknik Hidrologi, 1979, *Tanah Runtuh Ngarai Sianok di Dekat Kompleks RSUP Bukittinggi*, Direktorat Geologi, Bandung.
- Dinas Komunikasi dan Informasi Kabupaten Agam, 2022, Profil Daerah, *Pemerintah Kabupaten Agam*. <https://ppid.agamkab.go.id/> (diakses 2-Mei-2024).
- Dinas Pariwisata Bukittinggi, 2022, Kawasan Rawan Bencana Geopark Ngarai Sianok-Maninjau, *Geopark Ngarai Sianok Maninjau*.

<https://geoparkngaraisianokmaninjau.org/peta/peta-detail/9> (diakses 18-Mei-2024).

Direktorat Irigasi II, Dirjen Pengairan PU, 1993, *Uraian tingkat aliran air tanah Sebagai Penyebab Longsor pada Ngarai Sianok, Dati II Bukittinggi, Sumatera Barat*, Departemen Pekerjaan Umum Republik Indonesia.

Erfani, S., Naimullah, M., Winardi, D., 2023, GIS Scoring and Overlay Methods for Mapping Landslide Vulnerability in Lebak Regency, Banten, *Jurnal Fisika Flux: Jurnal Ilmiah Fisika FMIPA Universitas Lambung Mangkurat*, Vol. 20, Hal. 61, DOI: 10.20527/flux.v20i1.15057.

Fadhly, A., Hadiyansyah, D., 2021, Analisis Mitigasi Bencana dan Kajian Geologi Ngarai Sianok Dalam Pengembangan Konservasi Berkelanjutan di Geopark Nasional Ngarai Sianok-Maninjau Sumatera Barat, *Jurnal Sains dan Teknologi: Jurnal Keilmuan dan Aplikasi Teknologi Industri*, Vol. 21, Hal. 253–261.

Feizizadeh, B., Shadman Roodposhti, M., Jankowski, P., Blaschke, T., 2014, A GIS-based extended fuzzy multi-criteria evaluation for landslide susceptibility mapping, *Computers and Geosciences*, Vol. 73, Hal. 208–221, DOI: 10.1016/j.cageo.2014.08.001.

Feronika, Osawa, T., Merit, I.N., 2023, Spatial Analysis of Landslide Potential on Agricultural in The Ayung Watershed, Bali Province, *Ecotrophic*, Vol. 17, Hal. 233–243.

Fransiska, L., Tjahjono, B., Gandasmita, K., 2017, Studi Geomorfologi dan Analisis Bahaya Longsor di Kabupaten Agam, Sumatera Barat, *Buletin Tanah dan Lahan*, Vol. 1, Hal. 51–57.

Gorelick, N., Hancher, M., Dixon, M., Ilyushchenko, S., Thau, D., Moore, R., 2017, Remote Sensing of Environment Google Earth Engine: Planetary-scale geospatial analysis for everyone, *Remote Sensing of Environment*, Vol. 202, Hal. 18–27, DOI: 10.1016/j.rse.2017.06.031.

Grozavu, A., Patriche, C.V., 2021, Mapping landslide susceptibility at national scale by spatial multi-criteria evaluation, *Geomatics, Natural Hazards and Risk*, Vol. 12, Hal. 1127–1152, DOI: 10.1080/19475705.2021.1914752.

Hansen, M.C., Potapov, P. V, Moore, R., Hancher, M., Turubanova, S.A., Tyukavina, A., Thau, D., Stehman, S. V, Goetz, S.J., Loveland, T.R., Kommareddy, A., Egorov, A., Chini, L., Justice, C., Townshend, J.R.G., 2013, High-Resolution Global Maps of 21st-Century Forest Cover Change, *Science*, Vol. 850, Hal. 2011–2014, DOI: 10.1126/science.1244693.

Highland, L.M., Bobrowsky, P., 2008, *The Landslide Handbook—A Guide to Understanding Landslides*, U.S. Geological Survey Circular 1325, Virginia.

- Ibrahim, 2022, BMKG: Fenomena La Nina Triple Dip Jadi Ancaman Negara-negara di Dunia, *Badan Meteorologi, Klimatologi, dan Geofisika*. <https://www.bmkg.go.id/> (diakses 30-Oktober-2024).
- 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)*, Vol. 7, Hal. 41–49, DOI: 10.30998/string.v7i1.12948.
- Mukhlisa, A.N., Mappiasse, M.F., Ashari, A.S., 2023, Penerapan Metode Skoring Dan Weighted Overlay Dalam Menaksir Tingkat Kerawanan Longsor Kecamatan Camba, Kabupaten Maros, *Gorontalo Journal of Forestry Research*, Vol. 6, Hal. 89–98, DOI: 10.32662/gjfr.v6i2.3203.
- Ningsih, D.H.U., Setyadi, A., 2003, Remote Sensing (Penginderaan Jauh), *Dinamik*, Vol. 8, Hal. 113–120, DOI: <https://doi.org/10.35315/dinamik.v8i2.516>.
- Nofirman, 1994, *Perilaku Material Geologis Padat*, Universitas Negeri Padang, Padang.
- Oktaviani, T., 2021, Analisis Zonasi Bahaya Longsor Menggunakan Metode Multi Criteria Evaluation (MCE) di DAS Kampar Hulu, *Jurnal Kependudukan dan Pembangunan Lingkungan*, Vol. 2, Hal. 67–76.
- Peraturan Menteri Pertanian, 2006, Lampiran Peraturan Menteri Pertanian, 47.
- Pradhann, S.P., Vishall, V., Singh, T.N., 2019, *Advances in Natural and Technological Hazards Research Landslides: Theory, Practice and Modelling*, Springer International Publish, Cham.
- Prakash, N., Manconi, A., Loew, S., 2020, Mapping landslides on EO data: Performance of deep learning models vs. Traditional machine learning models, *Remote Sensing*, Vol. 12, Hal. 1–24, DOI: 10.3390/rs12030346.
- Prasetya, H.N.E., Aditama, T., Sastrawiguna, G.I., Rizqi, A.F., Zamroni, A., 2021, Analytical landslides prone area by using Sentinel-2 Satellite Imagery and geological data in Google Earth Engine (a case study of Cinomati Street, Bantul Regency, Daerah Istimewa Yogyakarta Province, Indonesia), *IOP Conference Series: Earth and Environmental Science*, IOP Publishing Ltd.
- Pusat Vulkanologi dan Mitigasi Bencana Geologi, 2005, Manajemen Bencana Tanah Longsor. <https://vsi.esdm.go.id/> (diakses 5-April-2024).
- Pusdalops PB Sumbar, 2022, Infografis Kejadian Bencana Provinsi Sumatera Barat. <https://ppid.sumbarprov.go.id/>.
- Putratama, R., 2019, Kilas Balik 2019: Kejadian Bencana Terkait Cuaca, Iklim, dan Gempabumi, *Badan Meteorologi, Klimatologi, dan Geofisika*.

<https://www.bmkg.go.id/> (diakses 30-Oktober-2024).

- Saha, A., Villuri, V.G.K., Bhardwaj, A., Kumar, S., 2023, A Multi-Criteria Decision Analysis (MCDA) Approach for Landslide Susceptibility Mapping of a Part of Darjeeling District in North-East Himalaya, India, *Applied Sciences (Switzerland)*, Vol. 13, DOI: 10.3390/app13085062.
- Singh, P., Maurya, V., Dwivedi, R., 2021, Pixel Based Landslide Identification Using Landsat 8 and GEE, *International Geoscience and Remote Sensing Symposium (IGARSS)*, Vol. 43, Hal. 8444–8447, DOI: 10.1109/IGARSS47720.2021.9553358.
- Skempton, A.W., Hutchinson, J.N., 1969, *Stability of natural slopes and embankment foundations*, Soil Mech dan Fdn Eng Conf Proc Mexico.
- Subowo, E., 2003, *Pengenalan Gerakan Tanah*, Pusat Vulkanologi dan Mitigasi Bencana Geologi, Bandung.
- Sukoco, B., Armijon, Fadly, R., 2022, Kajian Pemanfaatan Teknologi Google Earth Engine Untuk Bidang Penginderaan Jauh, *Jurnal Penelitian Geografi*, Vol. 1, Hal. 79–88.
- Tadesse, L., Uncha, A., Toma, T., 2024, Landslide Vulnerability Mapping Using Multi-criteria Decision-Making Approaches: in Gacho Babba District, Gamo Highlands Southern Ethiopia, *Discover Applied Sciences*, Vol. 6, DOI: 10.1007/s42452-024-05693-9.
- Triyatno, 2012, Pemetaan Zonasi Bahaya Longsor dan Risiko Longsoran di Derah Ngarai Sianok Kota Bukittinggi, *Jurnal Geografi*, Vol. 2, Hal. 83–90.
- Wijoyo, A., Saputra, A.Y., Ristanti, S., Sya'ban, S.R., Amalia, M., Febriansyah, R., 2024, Pembelajaran Machine Learning, *OKTAL (Jurnal Ilmu Komputer dan Science)*, Vol. 3, Hal. 375–380.
- Wu, W., Zhang, Q., Singh, V.P., Wang, G., Zhao, J., Shen, Z., Sun, S., 2022, A Data-Driven Model on Google Earth Engine for Landslide Susceptibility Assessment in the Hengduan Mountains, the Qinghai–Tibetan Plateau, *Remote Sensing*, Vol. 14, DOI: 10.3390/rs14184662.
- Zhou, X., Guan, H., Xie, H., Wilson, J.L., 2009, Analysis and optimization of NDVI definitions and areal fraction models in remote sensing of vegetation, *International Journal of Remote Sensing*, Vol. 30, Hal. 721–751, DOI: 10.1080/01431160802392620.