

DAFTAR PUSTAKA

- A.R. Arabameri, A.H. Halabian. 2015. Landslide Hazard Zonation Using Statistical Model of AHP (Case Study: Zarand Saveh Basin). *Physical Geomorphology*. 28:65-86.
- Abbas, N. 2022. *Tingkat Kerawanan Tanah Longsor Menggunakan Model Prediksi Multivariat Kuantitatif untuk Arah Konservasi Tanah dan Air pada Sub DAS Jenelata DAS Jeneberang*. Tesis. Universitas Hasanuddin.
- Abedini, M., and S. Tulabi. 2018. Assessing LNRF, FR, and AHP Models in Landslide Susceptibility Mapping Index: A Comparative Study of Nojian Watershed in Lorestan Province, Iran. *Environmental Earth Sciences*. 77:405.
- Abedini, M., Ghasemyan B., and Mogaddam M.H. 2017. Landslide Susceptibility Mapping in Bijar city, Kurdistan Province, Iran: a Comparative Study by Logistic Regression and AHP Models. *Environ Earth Sci* 76:308.
- Agustina, L. K., Danni G. H., Bilal A. F. 2020. Identifikasi Kawasan Rawan Longsor Berdasarkan Karakteristik Batuan Penyusun di Kota Bandar Lampung. *Bandar Lampung. ELIPSOIDA Vol 03 No 01, Juni 2020 Hal. 30-37. ISSN 2621-9883*.
- Anoname, 2015. Badan Nasional Penanggulangan Bencana, <http://dibi.bnpb.go.id/> Diakses 30 Maret 2022.
- Ayalew, L. and Yamagishi, H. 2005. The Application of GIS-based Logistic Regression for Landslide Susceptibility Mapping in the Kakuda-Yahiko Mountains. Central Japan. *Geomorphology* 65(1–2), 15– 31.
- Chen, C., Zhangquan S., Yuhui W., Shixue Y., Jingyan L., Sinan L., and Ke W. 2023. Modelling Landslide Suceptibility in Forest-Covered Areas in Lin'an, China, Using Logistical Regression, a Decision Tree, and Random Forest . China. *Remote Sensing* 4378:15 – 19.
- Dai F.C. and Lee C.F. 2002. Landslide Characteristics and Slope Instability Modeling Using GIS, Lantau Island, Hong Kong. *Geomorphology* 42:213–228.
- Devkota, K.C., Regmi A.D., Pourghasemi H.R., Yoshida K., Pradhan B., Ryu I.C., Dhital M.R., Althuwaynee O.F. 2013. Landslide Susceptibility Mapping Using Certainty Factor, Index of Entropy and Logistic Regression Models in GIS and their Comparison at Mugling–Narayanghat Road Section in Nepal Himalaya. *Nat. Hazards* 65:135–165.
- Dewi, S. 2011. Sistem Penggunaan Lahan dalam Analisis OppCost REDD+. World Agroforestry Centre. Bogor.

- Djeddaoui, F., Chadli M., Gloaguen R., Djeddaoui F., Chadli M., Gloaguen R. 2017. Desertification Susceptibility Mapping Using Logistic Regression Analysis in the Djelfa Area, Algeria. *Remote Sens.* 9:1031.
- Firdaus, M. I., & Yuliani, E. (2022). Kesesuaian Lahan Permukiman Terhadap Kawasan Rawan Bencana Longsor. *Jurnal Kajian Ruang.* 1(2), 216-237.
- Fithria, A., Gunawansyah., Badaruddin dan Hafizianor. 2012. Perubahan Penutupan Lahan di Sub-Sub DAS Amandit. *Jurnal Hutan Tropis.* Program Studi Kehutanan, Fakultas Kehutanan. Universitas Lambung Mangkurat. Banjarbaru.
- Gorservski, P.V., Gessler, P.E., Bol, J. Elliot, W.E., Foltz, R. B., 2006. Spatially and Temporally Distributed Modelling of Landslide Susceptibility. *Geomorphology* 80: 178 – 198.
- Grizelda, A. S. 2020. Analisis Tingkat Kerawanan Tanah Longsor Menggunakan Kombinasi Metode *Frequency Ratio* Dan *Fuzzy Logic* Di Sub DAS Jenelata, DAS Jeneberang. Skripsi. Universitas Hasanuddin, Makassar.
- H. R. Pourghasemi, A. Gayen, S. Park, C. W. Lee, and S. Lee. 2018. *Assessment of Landslide-Prone Areas and Their Zonation Using Logistic Regression, LogitBoost, and Naïvebayes Machine-Learning Algorithms Sustain.*, vol. 10, no. 10. doi: 10.3390/su10103697.
- H.R. Pourghasemi, Pradhan, B., Gokceoglu, C., Mohammadi, M., & Moradi, H. R. 2013. Application of Weights-of-Evidence and Certainty Factor Models and their Comparison in Landslide Susceptibility Mapping at Haraz Watershed, Iran. *Arabian Journal of Geosciences*, 6(7), 2351–2365. <https://doi.org/10.1007/s12517-012-0532-7>
- Hakam, A. (2010). *Stabilitas Lereng dan Dinding Penahan Tanah.* Univesitas Andalas Press
- Hardiyatmo H.C. 2006. Penanganan Tanah Longsor dan Erosi. Yogyakarta: Gajah Mada University Press.
- Hosseinzadeh M., Servati M., Mansouri A., Mirbagheri B., Khezri S. 2009. Landslide Hazard Zonation Using Logistic Regression, The Way Sanandaj–Dehgolan, Iran. *J Geol* 11:27–37
- K. Khosravi, E. Nohani, E. Maroufinia, and H. R. Pourghasemi. 2016 A GIS-Based Flood Susceptibility Assessment and its Mapping in Iran: a Comparison Between Frequency Ratio and Weights-of-Evidence Bivariate Statistical Models With Multi-Criteria Decision-Making Technique. *Nat. Hazards.* vol. 83, no. 2. pp. 947–987. doi: 10.1007/s11069-016-2357-2

- Keller S., Atzl A. 2014. Mapping Natural Hazard Impacts on Road Infrastructure the Extreme Precipitation in Baden-Württemberg, Germany. *Int J Disaster Risk Sci* 5(3):227–241.
- Kleinbaum D.G. 1994. *Logistic Regression: a Self Learning Text*. Springer, New York. p 282.
- Klose M., Damm B., Terhorst B. 2015. *Landslide Cost Modeling for Transportation Infrastructures: a Methodological Approach*. *Landslides* 12(2):321–334.
- Komac M (2006) A landslide Susceptibility Model Using the Analytical Hierarchy Process Method and Multivariate Statistics in Perialpine Slovenia. *Geomorphology* 74:17–28.
- Krauter E., Kumerics C., Feuerbach J., Lauterbach M. 2012. *Abschätzung der Risiken von Hang- und Böschungsrutschungen durch die Zunahme von Extremwetterereignissen. Berichte der Bundesanstalt für Straßenwesen. Straßenbau, Heft S75*. Wirtschaftsverlag NW, Bremerhaven, p 61.
- Kubota, T., Laura S., Andang S.S., 2015. *Root Strenght of Understory Vegetation For Erosion Control On*.
- Kurniawan, R. 2019. *Determination of landslide susceptibility level using scoring method in Pugung Area, Tanggamus*. IOP Conference Series: Materials Science and Engineering 620, 012126.
- Lambin, E.F, Turner, B.L., Geist, H.J., 2001. The Cause of Landuse and Landcover Change: Moving Beyond the Myths. *Global Environmental Change*.
- Lee S. 2005. Application of Logistic Regression Model and its Validation for Landslide Susceptibility Mapping Using GIS and Remote Sensing Data. *International Journal of Remote Sensing* 26:1477-1491.
- Lee, S. and Sambath, T. 2006. Landslide Susceptibility Mapping in the Damrei Romel Area, Cambodia Using Frequency Ratio and Logistic Regression ,Models, *Environ. Geol.* 50(6), 847–855.
- Lee, S. and Talib J.A. 2005. Probabilistic landslide susceptibility and factor effect analysis. *Environ. Geol* 47(7):982–990.
- Lee, S., Choi J, Min K (2004), Probabilistic Landslide Hazard Mapping Using GIS and Remote Sensing Data at Boun, Korea. *Int J Remote Sens.* 25:2037–2052.
- Lesmana, D., Manyuk F., dan Bambang S. 2021. Analisis Kemiringan Lereng Daerah Aliran Sungai Kampra Dengan Titik Keluaran Waduk PLTA Koto Panjang. Riau. *Jurnal Jom FTEKNIK* Volume 8 - Edisi 2 Juli s/d Desember.

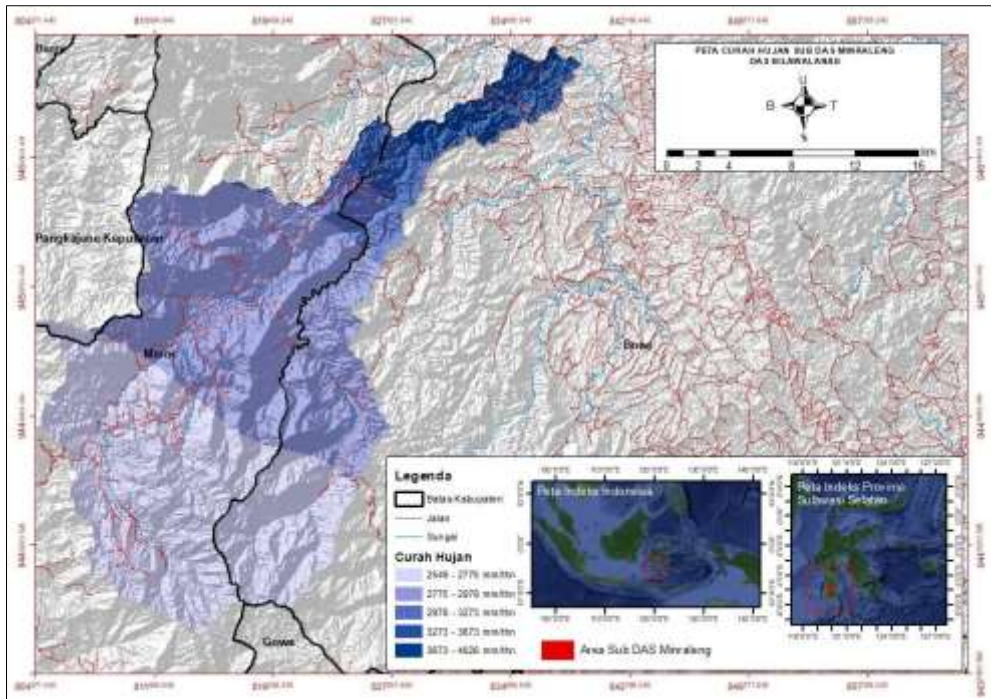
- Lydia, E.E., Daniel B. 2002. Land Slide Hazard and Risk Zonation Mapping in the Rio Grande Basin, central Andes of Mendoza, Argentina. *Mt Res Dev* 22(2):17.
- Mathew, J. Jha V.K., Rawat G.S. 2009. *Landslide Susceptibility Zonation Mapping and its Validation in Part of Garhwal Lesser Himalaya, India, Using Binary Logistic Regression Analysis and Receiver Operating Characteristic Curve Method. Landslides*. Vol. 6. p.17–26.
- Mathew, J., Jha V.K., Rawat G.S. 2009. *Landslide Susceptibility Zonation Mapping and its Validation in Part of Garhwal Lesser Himalaya, India, Using Binary Logistic Regression Analysis and Receiver Operating Characteristic Curve Method. Landslide*. v.6. pp. 17-26. <https://doi.org/10.1007/s10346-008-0138-z>.
- Meten, Matebie. Netra P., Ryuichi Y., 2015. Effect of Landslide Factor Combination on the Prediction Accuracy of Landslide Susceptibility Maps in the Blue Nile Gorge of Central Ethiopia. *Geoenvironmental Disaster*, v.2 pp.9 doi:10.1186/s40677-40015- 40016- 40677.
- Nugraha, A., Adi S. 2021. Analisis Potensi Tanah Longsor di Jalan Raya Cikajang Pameungpeuk Daerah Batu Numpang. *Jurnal Konstruksi* Vol. 19, No. 2, Hal. 277-287
- Othman, A.A., Gloaguen R., Andreani, L., Rahnam M. 2015. Landslide Susceptibility Mapping in Mawat Area, Kurdistan Region, NE Iraq: A Comparison of Different Statistical Models. *Nat. Hazards Earth Syst. Sci. Discuss*. Vol. 3. pp. 1789–1833.
- Pradhan, B., M.I Sameen. 2005. Manifestation of SVM - Based Rectified Linear Unit (ReLU) Kernel Function in Landslide Modelling. Universiti Putra Malaysia, 43400 Serdang, Selangor, Malaysia. *Space Science and Communication for Sustainability*. pp. 185 - 195.
- Regmi, N. R., Giardino, J. R. & Vitek, J. D. 2010. Modeling Susceptibility to Landslides Using The Weight of Evidence Approach: Western Colorado, USA. *Geomorphology*. 115 pp.172-187.
- Sianturi, N. M, Kamarudin, K. M., Amri, Sudianto, S., Khalit, S. I., & Umar, R. 2021. Analysis of the Impact of Surface Volume Reduction on River Height Sedimentation Around Pangururan District, Samosir Regency, North Sumatra, Indonesia. *London Journal of Research in Science: Natural and Formal*, 21(2), 79–91.
- Soewarno. 2015. *Klimatologi, Pengukuran dan Pengolahan Data Curah Hujan, Contoh Aplikasi Hidrologi dalam Pengelolaan Sumber Daya Air*. Yogyakarta: Graha Ilmu.

- Soma, Andang Suryana. 2018. *Land Use Change and Landslide Susceptibility Assesment Using GIS and Multivariate Quantitative Predictive Models for Mountainous Disaster Mitigation in South Sulawesi Indonesian*. Disertation. Kyusu University
- Spizzichino, D., Margottini C., Trigila A., Iadanza C., Linser S. 2010. Chapter 9: Landslides. In: *European Environment Agency (ed) Mapping the Impacts of Natural Hazards and Technological Accidents in Europe: an Overview of the Last Decade*. EEA Technical Report 13/2010. European Environment Agency. Publications Office of the European Union, Luxembourg, pp 81–93. ISBN 978-92-9213-168-5.
- Sun, X. Jianping C., Yiding B., Xudong H., Jiewei Z., Wei P., 2018. Landslide Susceptibility Mapping Using Logistic Regression Analysis along the Jinsha River and Its Tributaries Close to Derong and Deqin County, Southwestern China. *ISPRS Int. J. Geo-Inf.* v.7. pp. 438. doi:10.3390/ijgi7110438.
- Süzen M.L., Doyuran V. 2004. Data Driven Bivariate Landslide Susceptibility Assessment Using Geographical Information Systems: a Method and Application to Asarsuyu Catchment, Turkey. *Eng Geol* v.71. pp.303–321.
- UU RI No. 17/2019
- Virmani S.M., Siva Kumar M.V.K, Reddy S.J. 1982. Rainfall Probability Estimates for Selected Locations of Semi-arid India. International Crops Research Institute for the Semi-Arid Tropics, Patancheru.
- Wang, F., Xu P., Wang C., Wang N., Jiang N. 2017. Application of a GIS-Based Slope Unit Method for Landslide Susceptibility Mapping along the Longzi River, Southeastern Tibetan Plateau, China. *ISPRS Int. J. Geo-Inf.* v.6. pp.172.
- Wang, Haishan., Jian X., Shuchen T., and Jinxuan Z. 2023. *Landslide Susceptibility Evaluation Based on a Coupled Informative Logistic Regression Model Shuangbai County as an Example. Sustainability (Switzerland)*. V.15. p.1-17 ISSN;20711050 doi:10.3390/su151612449
- Wang, W., H. Zhuolei, H. Zheng, L. Yange, D. Jie, dan H. Jianling. 2020. *Mapping the Susceptibility*.
- World Road Association. 2015. *International Climate Change Adaptation Framework for Road Infrastructure*. PIARC Report 2015R03EN. Authors: Toplis C., Kidnie M., Marchese A., Maruntu C., Murphy H., Sébille R., Thomson S. World Road Association (PIARC). La Défense cedex, France, p 88. ISBN 978-2-84060-362-7.

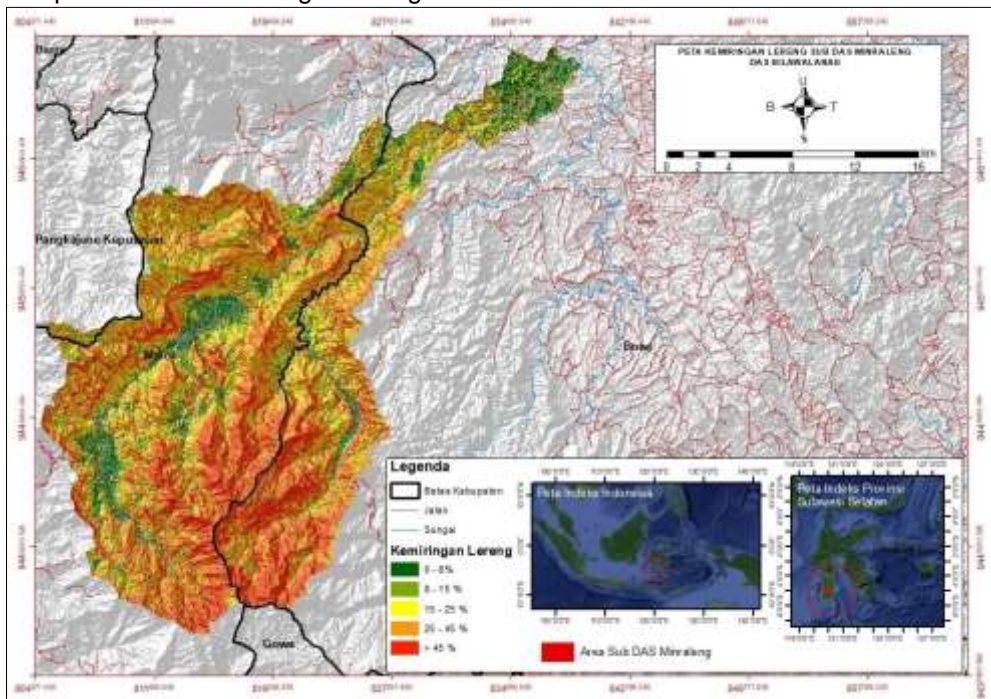
- Yalcin, A. 2008. *GIS-Based Landslide Susceptibility Mapping Using Analytical Hierarchy Process and Bivariate Statistics in Ardesen (Turkey)*. *Catena* 72(1):1–12.
- Yalcin, A., 2005. *An Investigation on Ardesen (Rize) Region on The Basis of Landslide Susceptibility*. PhD Thesis. Karadeniz Technical University. Trabzon, Turkey.
- Yalcin, A., Reis, S., Aydinoglu, A. C., dan Yomralioglu, T. 2011. A GIS-Based Comparative Study of Frequency Ratio, Analytical Hierarchy Proses, Bivariate Statistics and Logistics Regression Methods for Landslide Susceptibility Mapping in Trabzon, NE Turkey. *Catena*, 85 (3), 274-287. <https://doi.org/10.1016/j.catena.2011.01.014>
- Zhao, Y.; Niu, R. Exploration of Landslide Risk Zoning Based on Evidence Weight Method. *Geogr. Geogr. Inf. Sci.* 2010, 26, 19–23.
- Zhu Lei and Huang Jing-Feng. 2006. GIS-Based Logistic Regression Method for Landslide Susceptibility Mapping on Regional Scale; *Journal of Zhejiang University Science A* 7(12) 2001–2017.

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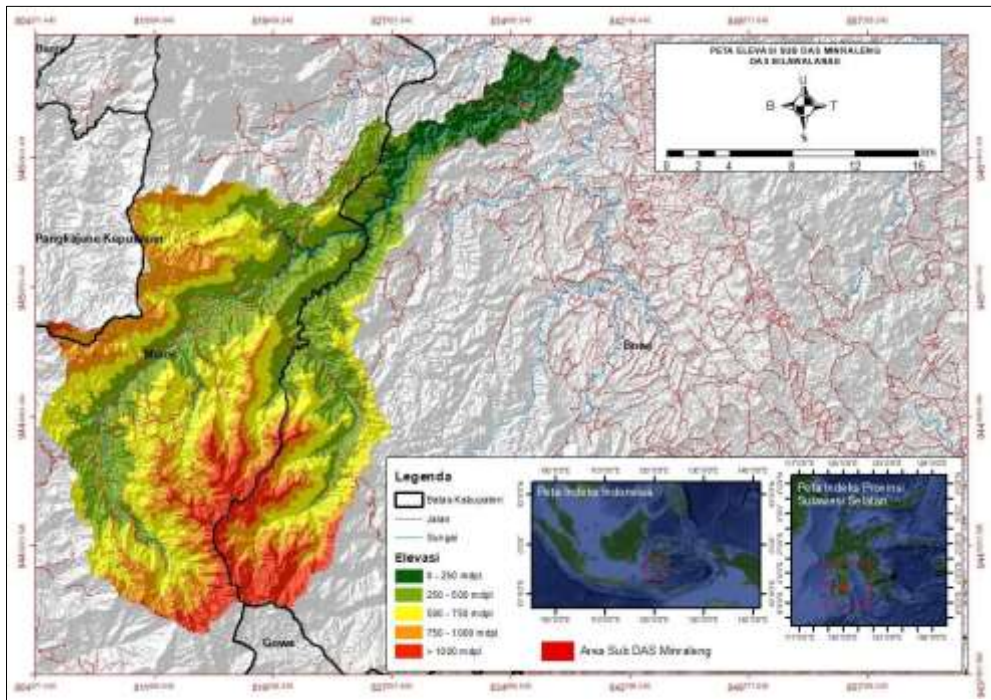
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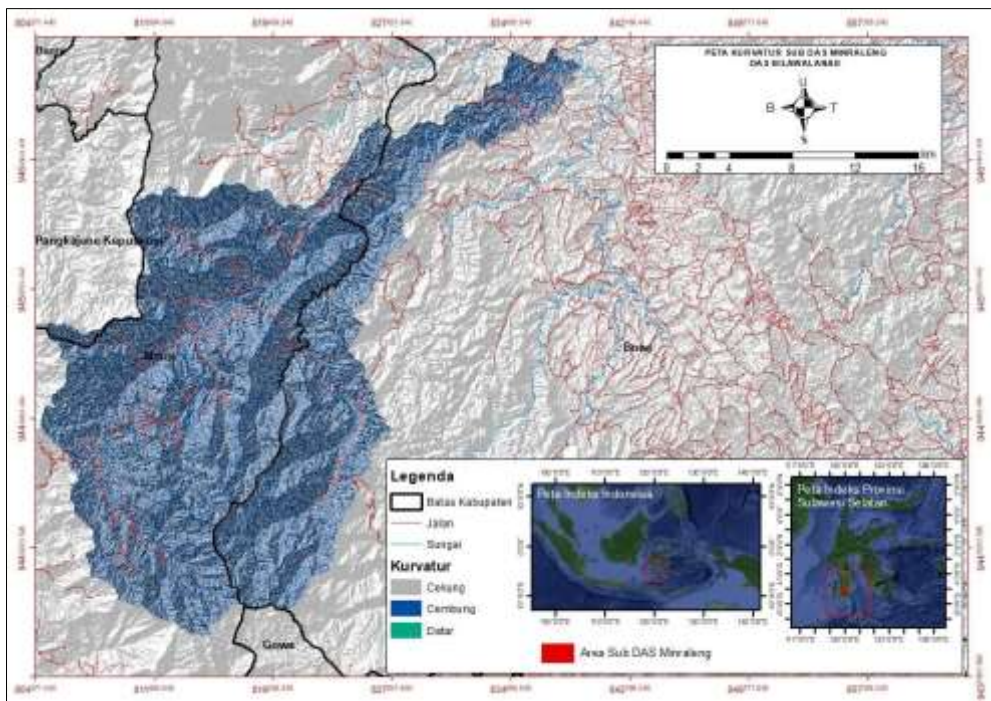
Lampiran 2. Peta kemiringan lereng



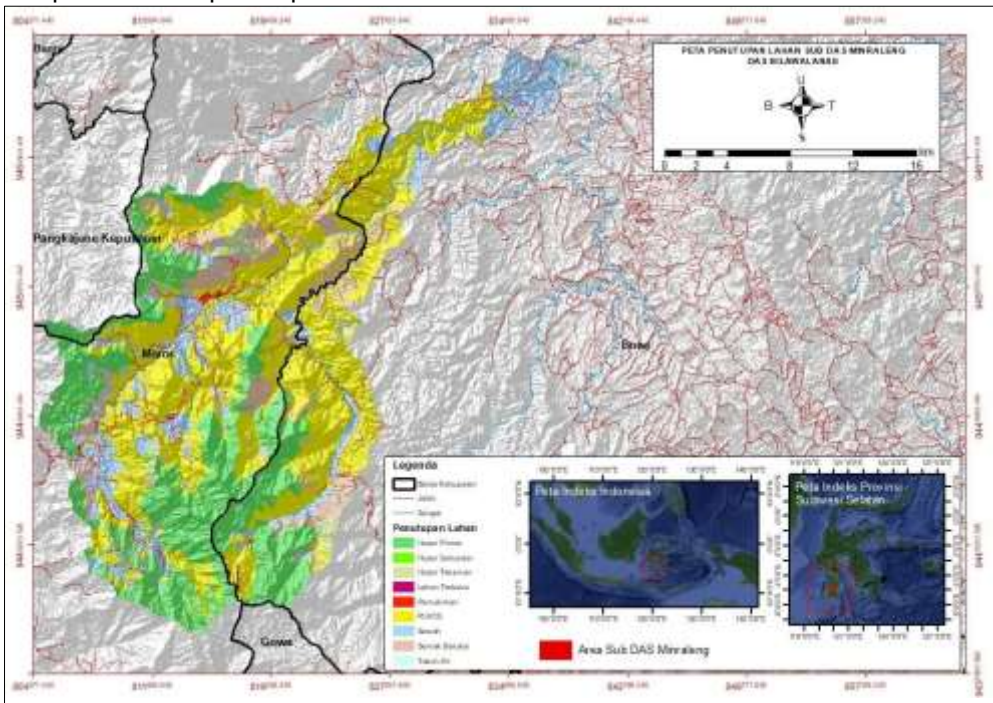
Lampiran 3. Peta elevasi



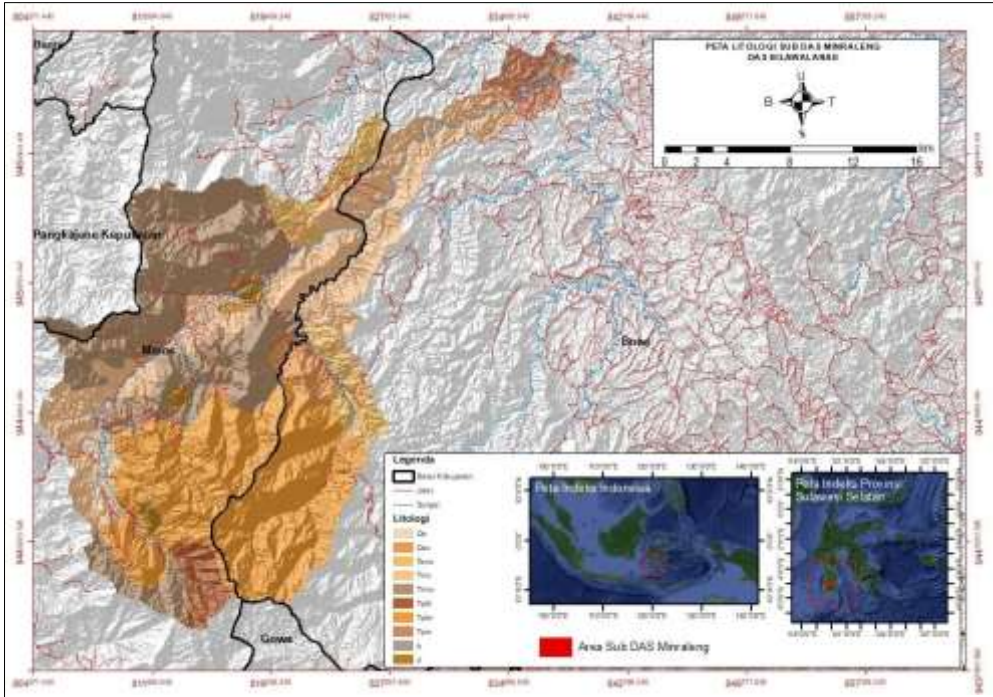
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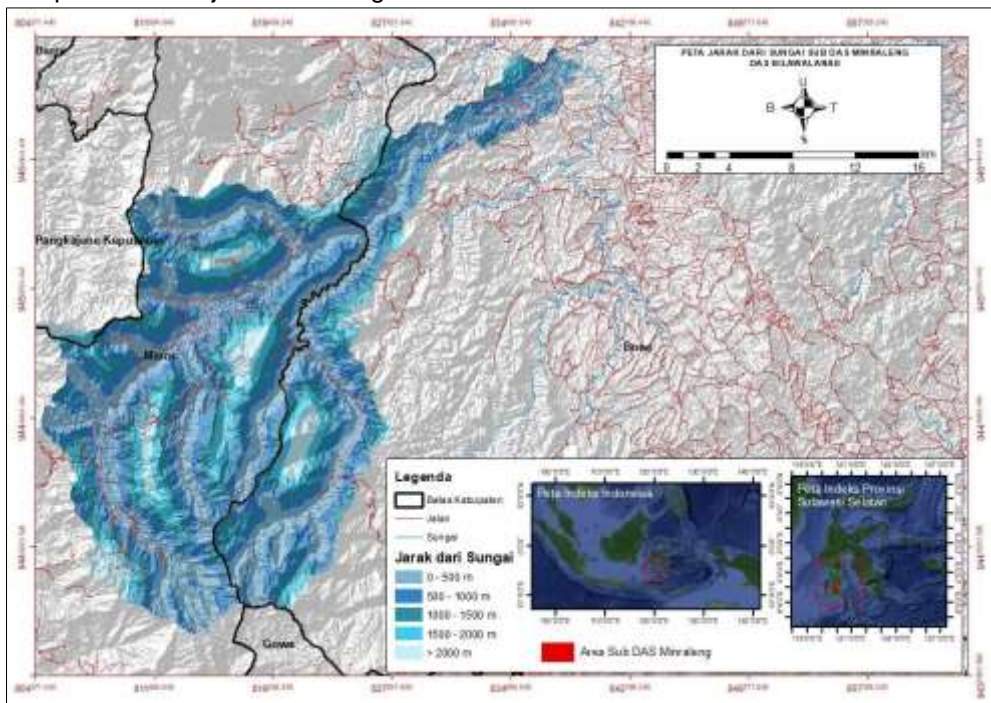
Lampiran 5. Peta penutupan lahan



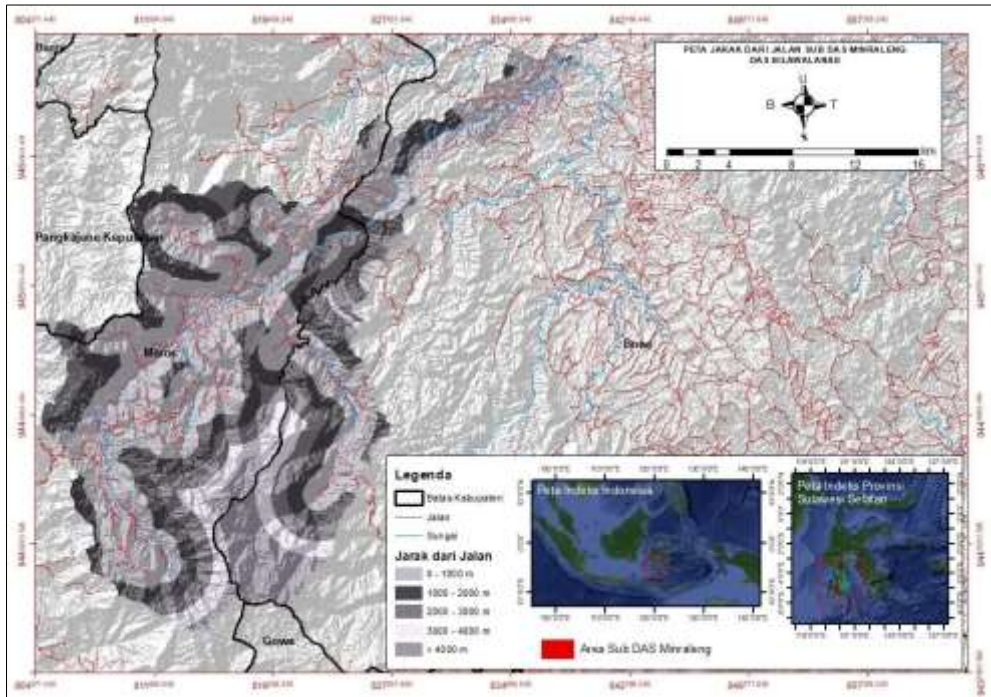
Lampiran 6. Peta litologi



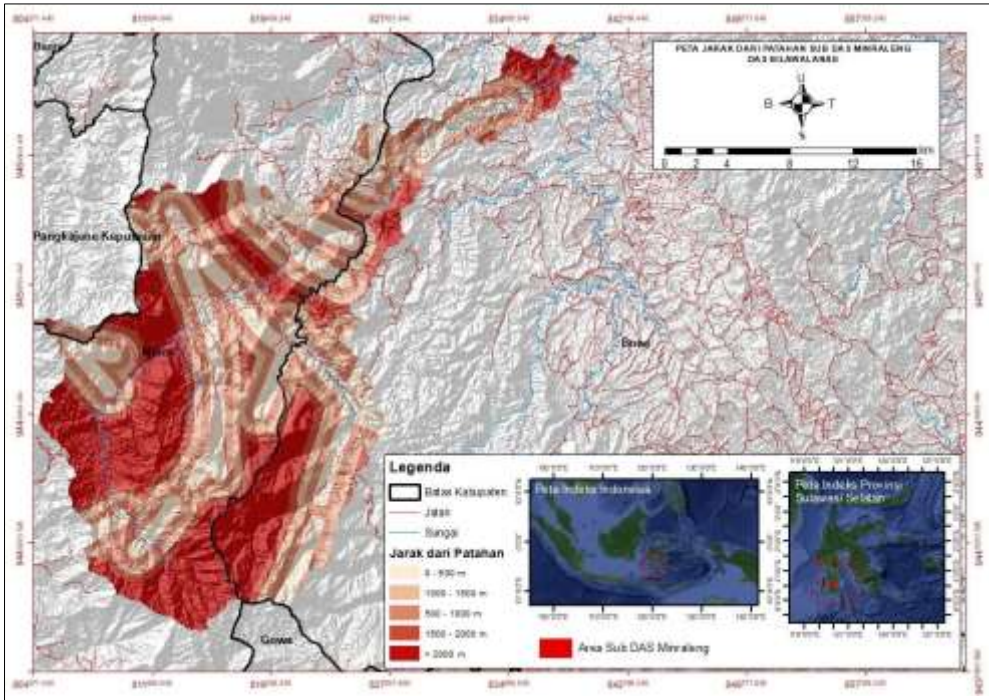
Lampiran 7. Peta jarak dari sungai



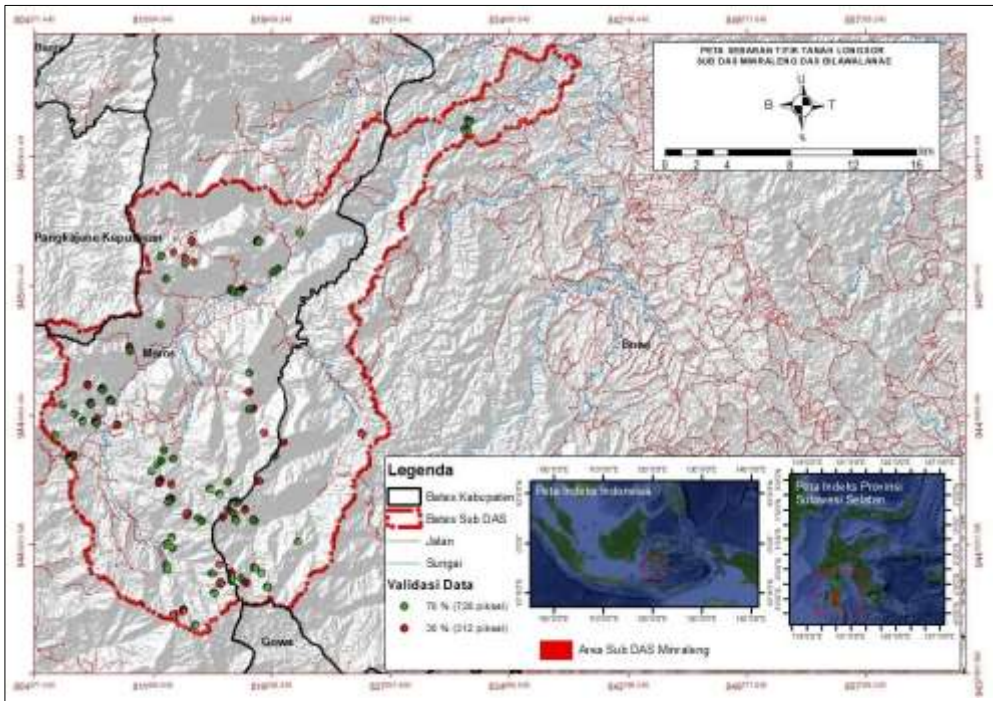
Lampiran 8. Peta jarak dari jalan



Lampiran 9. Peta jarak dari patahan



Lampiran 10. Peta sebaran dan pembagian data kejadian tanah longsor



Lampiran 11. Dokumentasi turun lapangan



