

DAFTAR PUSTAKA

- Agustan, Kriswati, E., Frederik, M., Alimuddin, I., & Ito, T. (2024). Ground Deformation Monitoring of Lewotobi Volcano Based on Time Series InSAR Method. <https://acrs-aars.org/proceeding/ACRS2024/AB0099.pdf>
- Akhmad Jufriadi, Maryanto Maryanto, Adi Susilo, B. Heri Purwanto, & Muhammad Hendrasto. (2013). Analisis Sinyal Seismik Untuk Mengetahui Proses Internal Gunung Ijen Jawa Timur. *Jurnal Neutrino Jurnal Fisika Dan Aplikasinya*, 22–22. <https://doi.org/10.18860/neu.v0i0.2443>
- Avdan, U., & Jovanovska, G. (2016). Algorithm for Automated Mapping of Land Surface Temperature Using LANDSAT 8 Satellite Data. *Journal of Sensors*, 2016(1), 1–8. <https://doi.org/10.1155/2016/1480307>
- Albut, Selçuk. (2024). Land Surface Temperature (LST) Calculation processes with Landsat 8.
- Blackett, M. (2014). Early Analysis of Landsat-8 Thermal Infrared Sensor Imagery of Volcanic Activity. *Remote Sensing*, 6(3), 2282–2295. <https://doi.org/10.3390/rs6032282>
- Badan Nasional Penanggulangan Bencana. (2025). Gunung Lewotobi Laki-laki Kembali Berstatus Awas, Warga Diminta Siaga. <https://bnpb.go.id/>
- BNPB. (2025). *Badan Nasional Penanggulangan Bencana*. BNPB. <https://bnpb.go.id/berita/erupsi-eksplosif-gunung-lewotobi-laki-laki-kolom-abu-capai-18000-meter-warga-diminta-waspada>
- Bondan Galih Dewanto, Heryadi Rachmat, Estu Kriswati, Yanis, M., Achmad Fakhrus Shomim, & Admiral Musa Julius. (2023). Study Of Geothermal And Volcanic Activity at Mount Awu, The Deadliest Active Volcano in North Sulawesi Province, Indonesia using Optical Satellite Imagery. *Journal of Volcanology and Geothermal Research*, 438, 107811–107811. <https://doi.org/10.1016/j.jvolgeores.2023.107811>
- Dolenc, S. (2019). Active Volcanoes as Seen from Space. *Medium; Planet Stories*. <https://medium.com/sentinel-hub/active-volcanoes-as-seen-from-space-9d1de0133733>
- Delegido, J., Verrelst, J., Alonso, L., & Moreno, J. (2011). Evaluation of Sentinel-2 Red-Edge Bands for Empirical Estimation of Green LAI and Chlorophyll Content. *Sensors*, 11(7), 7063–7081. <https://doi.org/10.3390/s110707063>
- ESA (2024). Sentinel-2 User Handbook. *European Space Agency*.
- F.D. van der Meer, H.M.A. van der Werff, F.J.A. van Ruitenbeek, (2014). Potential of ESA's Sentinel-2 for geological applications, *Remote Sensing of Environment*, Volume 148, 124–133, ISSN 0034-4257, <https://doi.org/10.1016/j.rse.2014.03.022>.
- Feilhauer, H. & Stellmes, M. (2025). Landsat 8. *Fu-Berlin.de*. <https://blogs.fu-berlin.de/reseda/landsat-8/>

- Gusti, I., Ayu, A., & Asmiwyati, R. (2016). Impact of Land Use Change on Urban Surface Temperature and Urban Green Space Planning; Case Study of the Island of Bali, Indonesia. *Tesis*. Curtin University .
- Herlan Darmawan, Bondan Galih Dewanto, Argo Galih Suhadha, Imam Santoso, Farikhotul Chusnayah, Amalia Nurwijayanti, Afif Ari Wibowo, Atrida Hadianti, Nurkhalis Rahili (2026). Multi-volcanic hazards assessment at Karangetang Volcano, Indonesia due to the reactivation of two craters, *Journal of Volcanology and Geothermal Research*, Volume 471,108533, ISSN 0377-0273
- Huang, S., Tang, L., Hupy, J. P., Wang, Y., & Shao, G. (2020). A commentary review on the use of normalized difference vegetation index (NDVI) in the era of popular remote sensing. *Journal of Forestry Research*, 32(1), 1–6. <https://doi.org/10.1007/s11676-020-01155-1>
- Immitzer, M., Vuolo, F., & Atzberger, C. (2016). First Experience with Sentinel-2 Data for Crop and Tree Species Classifications. *Remote Sensing*.
- Jamilatusholikhah. (2025). Pemodelan Sebaran Dan Volume Endapan Lava Pasca Erupsi Gunung Lewotobi Laki-Laki Januari 2024 Menggunakan Citra Radar Dan Optik Multispektral. *Tesis*. Magister Fisika.UGM.
- Jehadu, S. (2025). BPBD Sikka: Sumber Air di 5 Desa Terdampak Erupsi Gunung Lewotobi Belum Layak Dikonsumsi. *KOMPAS.Com*; Kompas.com. <https://regional.kompas.com/read/2025/07/16/185200978/bpbd-sikka--sumber-air-di-5-desa-terdampak-erupsi-gunung-lewotobi-belum>
- Khusnani, A., Jufriansah, A., Pramudya, Y., Wahab, D. S., Alip, I., Samana, F. R. A., Sina, T. A., Servia, & Deti, M. (2025). Elevation Dynamics and Thermal Variations During the Eruption Phases of Mount Lewotobi Laki-laki. *Bin-cang Sains Dan Teknologi*, 4(01), 26–37. <https://doi.org/10.56741/bst.v4i01.873>
- Koesmono, M., Kusnama, & Suwarna, N. (1996). Peta Geologi Lembar Ende, Nusa Tenggara Timur: *Pusat Penelitian dan Pengembangan Geologi*.
- Landsat 8 (L8) Data Users Handbook. (2019). https://d9-wret.s3.us-west-2.amazonaws.com/assets/palladium/production/s3fs-public/atoms/files/LSDS-1574_L8_Data_Users_Handbook-v5.0.pdf
- Landsat Project Science Support. (2023). Landsat 8. *NASA Science*. <https://science.nasa.gov/mission/landsat-8/>
- Li, Z.-L., Tang, B.-H., Wu, H., Ren, H., Yan, G., Wan, Z., Trigo, I. F., & Sobrino, J. A. (2013). Satellite-derived land surface temperature: Current status and perspectives. *Remote Sensing of Environment*, 131, 14–37. <https://doi.org/10.1016/j.rse.2012.12.008>
- Lillesand, T., Kiefer, R., & Chipman, J. (2022). Remote Sensing And Image Interpretation (7th ed.). *United States of America: John Wiley & Sons*.

- Magma ESDM. (2026). Informasi Letusan. *Esdm.go.id*.
<https://magma.esdm.go.id/v1/gunung-api/informasi-letusan/LWK?>
- Main-Knorn, M., dkk. (2017). Sen2Cor for Sentinel-2. *Proceedings of Living Planet Symposium*.
- Mardiati, D., Rachman, M. G., Adha, I., Utama, P. P., Kurniawan, O., & Krisnabudhi, A. (2025). Pemantauan Suhu Puncak Gunung Merapi menggunakan Land Surface Temperature (LST) Citra Landsat Tahun 2020-2025 untuk Analisis Aktivitas Vulkanik. *Jurnal Ilmiah Geomatika*, 5(1), 35–43. <https://doi.org/10.31315/imagi.v5i1.14886>
- Martensson, U. (2011). Introduction to Remote Sensing and Geographical Information Systems.
- Muanza, P. (2023). Geothermal mapping and remote sensing of thermal anomalies at Graendalur area, Hveragerði, SW Iceland.
<https://pangea.stanford.edu/ERE/db/GeoConf/papers/SGW/2023/Muanza.pdf>
- M. Drusch, U. Del Bello, S. Carlier, O. Colin, V. Fernandez, F. Gascon, B. Hoersch, C. Isola, P. Laberinti, P. Martimort, A. Meygret, F. Spoto, O. Sy, F. Marchese, P. Bargellini. (2012). Sentinel-2: ESA's Optical High-Resolution Mission for GMES Operational Services, *Remote Sensing of Environment*, Volume 120, 25-36, <https://doi.org/10.1016/j.rse.2011.11.026>.
- Nádudvari, Á., Abramowicz, A., Maniscalco, R., & Viccaro, M. (2020). The Estimation of Lava Flow Temperatures Using Landsat Night-Time Images: Case Studies from Eruptions of Mt. Etna and Stromboli (Sicily, Italy), Kīlauea (Hawaii Island), and Eyjafjallajökull and Holuhraun (Iceland). *Remote Sensing*, 12(16), 2537. <https://doi.org/10.3390/rs12162537>
- Neinavaz, E., Skidmore, A. K., & Darvishzadeh, R. (2020). Effects of prediction accuracy of the proportion of vegetation cover on land surface emissivity and temperature using the NDVI threshold method. *International Journal of Applied Earth Observation and Geoinformation*, 85, 101984. <https://doi.org/10.1016/j.jag.2019.101984>
- Nong, Ryan (2024). *Pos-Kupang.Com*.
kupang.tribunnews.com/2024/11/04/update-dampak-erupsi-lewotobi-laki-laki-ntt-sembilan-korban-meninggal-berhasil-dievakuasi
- Norman, J. M., & Becker, F. (1995). Terminology in thermal infrared remote sensing of natural surfaces. *Agricultural and Forest Meteorology*, 77(3-4), 153–166. [https://doi.org/10.1016/0168-1923\(95\)02259-z](https://doi.org/10.1016/0168-1923(95)02259-z)
- Pramudiyasari, T. (2021). Analisis Lst, Ndvi Menggunakan Satelit Landsat 8 Serta Trend Suhu Udara Di Kabupaten Majalengka. *Jurnal Geosaintek*, 7(3). <https://doi.org/10.12962/j25023659.v7i3.9043>
- Rahayu, R. W., & Susilowati. (2025). Observasi Osilasi Resonansi Atmosfer di Ionosfer Setelah Erupsi Gunung Lewotobi Laki-laki Tahun 2025 Menggunakan

- GNSS-TEC. *Jurnal Ilmiah Geomatika*, 5(2), 75–86.
<https://doi.org/10.31315/imagi.v5i2.15708>
- Pratama, F., & Jaelani, L. M. (2025). Analysis of SO₂ Emissions and Thermal Anomalies from the Eruption of Mount Lewotobi Laki-laki in November 2024 Using Google Earth Engine. *Jurnal Penginderaan Jauh Dan Pengolahan Data Citra Digital*, 19(1), 32–45.
<https://doi.org/10.12962/inderaja.v19i1.5968>
- Pratomo, I. (2006). Klasifikasi Gunung Api Aktif Indonesia, Studi Kasus Dari Beberapa Letusan Gunung Api Dalam Sejarah . *Jurnal Geologi Indonesia*, 1(4 Desember), 209–227,
<https://media.neliti.com/media/publications/64402-ID-klasifikasi-gunung-api-aktif-indonesia-s.pdf>
- Purwandono, A., Bonté, D., Utami, P., Beekman, F., Pramumijoyo, S., & Van Wees, J.-D. (2021). *Geological structure of Flores Island, Indonesia: Relationship with volcanism and geothermal implications*.
<https://www.worldgeothermal.org/pdf/IGAstandard/WGC/2020/12039.pdf>
- Putri, D. R., Ismail, N., Idroes, R., Rizal, S., Nur, S., & Nanda, M. (2021). Analysis of Land Surface Temperature (LST) in Bur Ni Geureudong Geothermal Field, Aceh, Indonesia Using Landsat 8 OLI / TIRS Images. *Chiang Mai University Journal of Natural Sciences*, 20(4).
<https://doi.org/10.12982/cmujns.2021.084>
- Richter, R., Louis, J., & Müller-Wilm, U. (2012). Sentinel-2 MSI – Level 2A Products Algorithm Theoretical Basis.
- Santoso, I., R Dwi Ismanto, F Chusnayah, A Tjahjaningsih, None Suwarsono, & Y Vetrita. (2022). Lava flow mapping Karangetang Volcano during 2019 eruption using Sentinel-2 Images and Random Forest model. *IOP Conference Series Earth and Environmental Science*, 1109(1), 012063–012063.
<https://doi.org/10.1088/1755-1315/1109/1/012063>
- Seach, J. (2026). Lewotobi Volcano, Indonesia | Dr John Seach. *Volcanolive.com*.
<http://volcanolive.com/lewotobi.html>
- Supriyati Dwi Andreastuti, Haerani, N., Kristianto Kristianto, Ardy Setya Prayoga, Putra, R., Mboro, H. Y., Bere, E. R., Anselmus Bobyson Lamanepa, & Heruningtyas Desi Purnamasari. (2025). Insight Into The 2024-2025 Eruption of Lewotobi Laki-Laki Volcano in Flores Island, Indonesia: An Overview. *Indonesian Journal on Geoscience*, 12(3), 1–9.
<https://doi.org/10.17014/ijog.12.3.1-9>
- Syabhana, D.K., Kasbani, K., Suantika, G. dkk. The 2017–19 activity at Mount Agung in Bali (Indonesia): Intense unrest, monitoring, crisis response, evacuation, and eruption. *Sci Rep* 9, 8848 (2019).
<https://doi.org/10.1038/s41598-019-45295-9>
- U.S. Geological Survey. EarthExplorer. *Usgs.gov*. <https://earthexplorer.usgs.gov/>

- USGS. (2024). Using the USGS Landsat Level-1 Data Product | U.S. Geological Survey. *usgs.gov*. <https://www.usgs.gov/landsat-missions/using-usgs-landsat-level-1-data-product>
- Viana, G. (2025). Gunung Lewotobi Laki-laki enam kali erupsi pada 7-8 Juli 2025. *Antara News*. <https://www.antaranews.com/berita/4952789/gunung-lewotobi-laki-laki-enam-kali-erupsi-pada-7-8-juli-2025>
- Zaidi, M., Pareek, M., & Ghosh. (n.d.). Fundamentals of Remote sensing. <https://te-riin.org/e-learning/pdf/Fundamentals-of-Remote-sensing-V2.pdf>
- Zainab, S., dkk. (2024). Classification of disaster risk areas on mount ruang using vegetation index calculations and Landsat-8 Satellite Imagery. 5th International Conference Eco-Innovation in Science, Engineering, and Technology. NST Proceedings. pages 67-74. doi: 10.11594/nstp.2023.4511