

DAFTAR PUSTAKA

- Adrianda, R.S., Sutriyono, E., 2022, Kajian Struktur Geologi Daerah Muaro , Kabupaten Sijunjung , Sumatera Barat, *jurnal Geomine*, Vol. 10, Hal. 209–219.
- Awaliyah, A., Pohan, A., 2024, Perbandingan Koreksi Medan (Terrain Correction) Konvensional dan Modern pada Metode Gravitasi Menggunakan Data DEM ERTM2160 dan SRTM2gravity pada Wilayah Cianjur, *Jurnal Fisika Unand*, Vol. 13, Hal. 651–657.
- Badan Informasi Geospasial, 2025a, Data Demnas. <https://tanahair.indonesia.go.id/portal-web/unduh> (diakses 20-Februari-2025).
- Badan Informasi Geospasial, 2025b, Download Shapefile Geologi Seluruh Indonesia. <https://www.indonesia-geospasial.com/2020/03/download-data-shapefile-shp-geologi-se.html> (diakses 10-Februari-2025).
- Blakely, R.J., 1995, *Potential Theory in Gravity and Magnetic Application*, Cambridge University Press, Cambridge.
- BPBD Kota Padang, 2019, Mengenang Gempa 2009 di Kota Padang. <https://bpbd.padang.go.id/konten/mengenang-gempa-2009-di-kota-padang#:~:text=Provinsi Sumatra Barat berada di,pertemuan lempeng terdapat patahan Mentawai.> (diakses 12-Februari-2024).
- Collings, R., Lange, D., Rietbrock, A., Tilmann, F., Natawidjaja, D., Suwargadi, B., Miller, M., Saul, J., 2012, Structure and Seismogenic Properties of the Mentawai Segment of the Sumatra Subduction Zone Revealed by Local Earthquake Traveltime Tomography, *Journal of Geophysical Research: Solid Earth*, Vol. 117, DOI: 10.1029/2011JB008469.
- Daraini, D.P., Syafriani, Akmam, Dwiridal, L., 2023, Identification of Surface Layer Structure using Seismic Refraction for Landslide Mitigation in Tandikek Region, West Sumatra Indonesia, *IOP Conference Series: Earth and Environmental Science*, Institute of Physics.
- Dentith, M., Mudge, S.T., 2014, *Geophysics for the Mineral Exploration Geoscientist*, Cambridge University Press, Cambridge.
- Diamant, M., Harjono, H., Karta, K., Deplus, C., Dahrin, D., Zen, Jr., M.T., Gérard, M., Lassal, O., Martin, A., Malod, J., 1992, Mentawai Fault Zone Off Sumatra: A New Key to the Geodynamics of Western Indonesia, *Geology*, Vol. 20, Hal. 259, DOI: 10.1130/0091-7613(1992)020<0259:MFZOSA>2.3.CO;2.
- GEBCO, 2025, Gridded Bathymetry Data Download. <https://download.gebco.net/> (diakses 10-Maret-2025).

- Halliday, D., Resnick, R., Walker, J., 2014, *Fundamentals of Physics 10th Edition*, Wiley, USA.
- Hinze, W.J., VonFrese, R.R.B., Saad, A.H., 2012, Gravity and Magnetic Exploration: Principles, Practices, and Applications.
- Hirt, C., Claessens, S., Fecher, T., Kuhn, M., Pail, R., Rexer, M., 2013, New Ultrahigh-resolution Picture of Earth's Gravity Field, *Geophysical Research Letters*, Vol. 40, Hal. 4279–4283, DOI: 10.1002/grl.50838.
- Hirt, C., Yang, M., Kuhn, M., Bucha, B., Kurzmann, A., Pail, R., 2019, SRTM2gravity: an Ultrahigh Resolution Global Model of Gravimetric Terrain Corrections, *Geophysical Research Letters*, Vol. 46, Hal. 4618–4627, DOI: 10.1029/2019GL082521.
- Ibrahim, Syamsidik, Azmeri, Hasan, M., 2024, Tsunami Fragility based Characterisation of Mosques as Alternatives Tsunami Evacuation Buildings: Reconstructing Evidence from the 2004 Indian ocean tsunami, *International Journal of Disaster Risk Reduction*, Vol. 100, Hal. 104149, DOI: 10.1016/j.ijdr.2023.104149.
- Imam, S., Supriyadi, 2014, Struktur Bawah Permukaan Sekaran dan Sekitarnya Berdasarkan Data Gaya Berat, *Unnes Physics Journal*, Vol. 3, Hal. 43–46.
- Khairunnisa, W.I., Pohan, A.F., 2025, Identifikasi Segmen Talamau menggunakan Kombinasi Data Satelit GGMPlus dan Koreksi SRTM2gravity Berdasarkan Analisis Second Vertical Derivative (SVD), *Jurnal Fisika Unand*, Vol. 14, Hal. 198–204, DOI: 10.25077/jfu.14.2.198-204.2025.
- Kreemer, C., Blewitt, G., Klein, E.C., 2014, A Geodetic Plate Motion and Global Strain Rate Model, *Geochemistry, Geophysics, Geosystems*, Vol. 15, Hal. 3849–3889, DOI: 10.1002/2014GC005407.
- Mallick, K., Vasanthi, A., Sharma, K.K., 2012, *Bouguer Gravity Regional and Residual Separation: Application to Geology and Environment*, Springer Netherlands, Dordrecht.
- Manrulu, R.H., Wahyudi, 2014, Pembentukan Karakter Melalui Aplikasi Sains (Pemodelan 3d Anomali Gravitasi Magma Gunungapi Merapi Dengan Software Grablox, Bloxer Dan Rockwork), *Prosiding Seminar Nasional*, Vol. 01, Hal. 1–9.
- Mardiyah, A., Pohan, A.F., 2024, Identifikasi Sesar Gorontalo Dengan Memanfaatkan Data Gravitasi Satelit Resolusi Tinggi, *Jurnal Fisika Unand*, Vol. 13, Hal. 658–664, DOI: 10.25077/jfu.13.5.658-664.2024.
- Mukti, M.M., Maulin, H.B., Permana, H., 2021, Growth of Forearc Highs and Basins in the Oblique Sumatra Subduction System, *Petroleum Exploration and Development*, Vol. 48, Hal. 683–692, DOI: 10.1016/S1876-

3804(21)60054-X.

- Niroha, O., Putra, A., Pohan, A.F., 2021, Pemodelan Struktur Bawah Permukaan Menggunakan Metode Seismik Refraksi Pada Prospek Panas Bumi Nagari Aie Angek, Kabupaten Tanah Datar, *Jurnal Fisika Unand*, Vol. 10, Hal. 525–531, DOI: 10.25077/jfu.10.4.525-531.2021.
- Njinju, E.A., Atekwana, Estella A., Stamps, D.S., Abdelsalam, M.G., Atekwana, Eliot A., Mickus, K.L., Fishwick, S., Kolawole, F., Rajaonarison, T.A., Nyalugwe, V.N., 2019, Lithospheric Structure of the Malawi Rift: Implications for Magma-Poor Rifting Processes, *Tectonics*, Vol. 38, Hal. 3835–3853, DOI: 10.1029/2019TC005549.
- Nurfiani, D., Wang, X., Gunawan, H., Triastuty, H., Hidayat, D., Wei, S.J., Taisne, B., Bouvet de Maisonneuve, C., 2021, Combining Petrology and Seismology to Unravel the Plumbing System of a Typical Arc Volcano: An Example From Marapi, West Sumatra, Indonesia, *Geochemistry, Geophysics, Geosystems*, Vol. 22, DOI: 10.1029/2020GC009524.
- Philibosian, B., Sieh, K., Avouac, J.P., Natawidjaja, D.H., Chiang, H.W., Wu, C.C., Shen, C.C., Daryono, M.R., Perfettini, H., Suwargadi, B.W., Lu, Y., Wang, X., 2017, Earthquake Supercycles on the Mentawai Segment of the Sunda Megathrust in the Seventeenth Century and Earlier, *Journal of Geophysical Research: Solid Earth*, Vol. 122, Hal. 642–676, DOI: 10.1002/2016JB013560.
- Phua, M., Forni, F., Eisele, S., Rifai, H., Mohtadi, M., Lückge, A., Bouvet de Maisonneuve, C., 2025, A Late Pleistocene-Holocene Record of Explosive Eruptions from Central Sumatra (Indonesia) in the Western Sunda Volcanic Arc, *Bulletin of Volcanology*, Vol. 87, Hal. 31, DOI: 10.1007/s00445-025-01813-4.
- Pohan, A.F., Sismanto, S., Nurcahya, B.E., Lewerissa, R., Koesuma, S., Saputro, S.P., Amukti, R., Saputra, H., Adhi, M.A., 2023, Utilization and Modeling of Satellite Gravity Data for Geohazard Assessment in the Yogyakarta Area of Java Island, Indonesia, *Kuwait Journal of Science*, Vol. 50, Hal. 499–511, DOI: 10.1016/j.kjs.2023.05.016.
- Putri, P.K., Pohan, A.F., Marzuki, M., 2024, Pemodelan Struktur Bawah Permukaan Kabupaten Rejang Lebong dengan Metode Inversi 3D Data Gravitasi Satelit Menggunakan Koreksi SRTM2gravity, *Jurnal Fisika Unand*, Vol. 13, Hal. 799–805, DOI: 10.25077/jfu.13.6.799-805.2024.
- Rminda, M.R., Brotopuspito, K.S., Triastuty, H., 2018, Identifikasi Lokasi dan Q Factor Hiposenter Gunungapi Marapi, Sumatera Barat, *Bimipa*, Vol. 25, Hal. 1–8.
- Sieh, K., Natawidjaja, D., 2000, Neotectonics of the Sumatran Fault, Indonesia, *Journal of Geophysical Research: Solid Earth*, Vol. 105, Hal. 28295–28326, DOI: 10.1029/2000JB900120.

- Silver, E.A., Reed, D., McCaffrey, R., Joyodiwiryono, Y., 1983, Back Arc Thrusting in the Eastern Sunda Arc, Indonesia: A Consequence of Arc-Continent Collision, *Journal of Geophysical Research: Solid Earth*, Vol. 88, Hal. 7429–7448, DOI: 10.1029/JB088iB09p07429.
- Siregar, A.C.P., Tamimah, N., 2022, *Fisika Dasar Jilid 2*, CV Kanaka Media, Jawa Timur.
- Smithsonian Institution, 2023, Global Volcanism Program. https://volcano.si.edu/database/search_eruption_results.cfm (diakses 4-Desember-2023).
- Tchoukeu, C.D.N., Basseka, C.A., Djomani, Y.P., Rousse, S., Etame, J., Llubes, M., Seoane, L., Som Mbang, C., Eyike Yomba, A., 2021, Corrigendum to “Crustal Thickness, Depth to the Bottom of Magnetic Sources and Thermal Structure of the Crust from Cameroon to Central African Republic: Preliminary Results for a Better Understanding of the Origin of the Bangui Magnetic Anomaly,” *Journal of African Earth Sciences*, Vol. 179, Hal. 104206, DOI: 10.1016/j.jafrearsci.2021.104206.
- Telford, W.M., Geldart, L.P., Sheriff, R.E., 1990, *Applied Geophysics Second Edition*, Cambridge University Press, New York.
- USGS, 2019, 20 Largest Earthquakes in the World Since 1900. <https://www.usgs.gov/programs/earthquake-hazards/science/20-largest-earthquakes-world-1900> (diakses 29-November-2023).
- USGS, 2025, Earthquake Hazard Program. <https://earthquake.usgs.gov/earthquakes/search/> (diakses 9-Maret-2025).
- Wang, Xiao, Liu, X., Zhao, D., Liu, B., Qiao, Q., Zhao, L., Wang, Xiaotong, 2022, Oceanic Plate Subduction and Continental Extrusion in Sumatra: Insight from S-wave Anisotropic Tomography, *Earth and Planetary Science Letters*, Vol. 580, DOI: 10.1016/j.epsl.2022.117388.
- Wils, K., Daryono, M.R., Praet, N., Santoso, A.B., Dianto, A., Schmidt, S., Vervoort, M., Huang, J.J.S., Kusmanto, E., Suandhi, P., Natawidjaja, D.H., Batist, M. De, 2021, The Sediments of Lake Singkarak and Lake Maninjau in West Sumatra Reveal Their Earthquake, Volcanic and Rainfall History, *Sedimentary Geology*, Vol. 416, DOI: 10.1016/j.sedgeo.2021.105863.
- Wulandari, M., Amir, H., Dwiridal, L., Sudiar, N.Y., 2024, Analisis Struktur Bawah Permukaan Segmen Sianok Menggunakan Data Geomagnetik melalui Pemodelan Inversi 3D, *Jurnal Pendidikan Tambusai*, Vol. 8, Hal. 42069–42078.
- Yulianda, W., Syafriani, Sabarani, A.Z., 2017, Analisis Perubahan Laju Seismik (Seismic Rate Changes) berdasarkan Distribusi Spasial Seismotektonik Wilayah Sumatera Barat, *Pillar of Physics*, Vol. 9, Hal. 49–56.