

DAFTAR PUSTAKA

- Alzwar, M. (1988). *Pengantar Dasar Ilmu Gunungapi*. Nova.
- Amandah., Ardi., N. D., & Waslaluddin. (2022). Interpretasi Struktur Bawah Permukaan Gunung Sinabung pad Model Dua-Dimensi (2D) Menggunakan Data WGM 2012 dan Metode First Horizontal Derivative. *Prosiding Seminar Nasional Fisika*, 1(1), 291–298.
- Andreastuti, S., Paripurno, E., Gunawan, H., Budianto, A., Syahbana, D., & Pallister, J. (2019). Character of community Response to Volcanic Crises at Sinabung and Kelud Volcanoes. *J. Volcanol. Geotherm*, 382(24), 298–310.
- Annisa, Y., Astriyan, G. C., Wahyunia, S., Indrastuti, N., & Massinai, M. F. I. (2021). Determination of Hypocenter Using Geiger Method in Sinabung Volcano, April-July 2016 Period. *IOP Conference Series: Earth and Environmental Science*, 873(1). <https://doi.org/10.1088/1755-1315/873/1/012007>
- Ayub, S., Rokhmat, J., Harjono, A., & Wahyudi, W. (2020). Penentuan Hiposenter Dan Episenter Gempa Vulkanik Gunung Merapi Dengan Hipo9. *ORBITA: Jurnal Kajian, Inovasi Dan Aplikasi Pendidikan Fisika*, 6(1), 124. <https://doi.org/10.31764/orbita.v6i1.1957>
- BGI. (2009). International Gravimetric Bureau (Bureau Gravimétrique International , BGI). *Rep. Int. Assoc. Geod*, 10, 2007–2009.
- Cameron, N. R., J.A., A., Bridge, D. M., Djunuddin, A., Ghazali, S. A., Harahap, Hariwidjaja, J. S., W., K., W., K., Ngabito, H., Rock, N. M. S., & Wandhoyo, R. (1982). *Geologic Map of Medan Quadrangle, Sumatera. skala 1:250.000*.
- Castro Nunes, B. I. de, do Nascimento, A. F., Ferreira, J., Assumpção, M., & Menezes, E. A. de. (2011). *Reservoir-Induced Seismicity at Castanhão (NE Brazil)*. *April 2022*, 1404–1407. <https://doi.org/10.1190/sbgf2011-290>
- Clewell, D. H., & Simon, R. F. (1950). Seismic Wave Propagation. *Geological Survey Bulletin 976-B*, 14(1), 50–60.
- Dawid, S., Ferdy, F., & Pasau, G. (2015). Penentuan Lokasi Pergerakan Magma Gunung Api Soputan Berdasarkan Studi Sebaran Hiposenter Gempa Vulkanik Periode Mei 2013 – Mei 2014. *Jurnal Ilmiah Sains*, 17(1), 88. <https://doi.org/10.35799/jis.15.2.2015.9222>
- Diament, M., Harjono, H., Karta, K., Deplus, C., Dahrin, D., Zen, M. T., Gerard, M., Lassal, O., Martin, A., & Malod, J. (1992). Mentawai Fault zone off Sumatra-A new key to the geodynamics of western Indonesia. *Geology*, 20(2), 259–262.
- Diaz, N., Sugestiani, N. K., & Suantika, I. G. (2019). Identifikasi Sebaran Episenter

Dan Hiposenter Gunungapi Guntur Berdasarkan Data Seismik dengan Menggunakan Metode Geiger. *SEMAR (Jurnal Ilmu Pengetahuan, Teknologi, Dan Seni Bagi Masyarakat)*, 8(2), 17–20. <https://doi.org/10.20961/semar.v8i2.25336>

- Gunawan, H., Surono, Budianto, A., Kristianto, Prambada, O., McCausland, W., Pallister, J., & Iguchi, M. (2019). Overview of the eruptions of Sinabung Volcano, 2010 and 2013–present and details of the 2013 phreatomagmatic phase. *Journal of Volcanology and Geothermal Research*, 382(August 2017), 103–119. <https://doi.org/10.1016/j.jvolgeores.2017.08.005>
- Hasib, M., Saepuloh, A., Aulia, A. N., Muttaqy, F., Anggono, T., Ramdhan, M., Kriswati, E., Syuhada, Febriani, F., Prasetyo, A. D., Dewi, C. N., Indrastuti, N., & Ghifari, B. F. (2024). Revealing the shallow magmatic plumbing system of Sinabung Volcano during 2014–2017 eruption events using seismic tomography. *Journal of Volcanology and Geothermal Research*, 452(July). <https://doi.org/10.1016/j.jvolgeores.2024.108137>
- Hendrasro, M. (2012). Evaluation of Volcanic Activity at Sinabung Volcano, After More Than 400 Years of Quiet. *Journal of Disaster Research*, 7(5).
- Hendrasro, M., Budianto, A., & Triastuty, H. (2012). *Gunung Sinabung 400 Tahun Setelah Istirahat Panjang*. Pusat Vulkanologi dan Mitigasi Bencana Geologi.
- Hendrasro, M., Surono, Budianto, A., Kristianto, Triastuty, H., Haerani, N., Basuki, A., Suparman, Y., Primulyana, S., Prambada, O., Loeqman, A., Indrastuti, N., Andreas, A.S., R. U., Adi, S., Iguchi, M., Ohkura, T., Nakada, S., & Yoshimoto, M. (2012). Evaluation of volcanic activity at Sinabung volcano, after more than 400 years of quiet. *J Disaster*, 5(2), 203–216.
- Hidayati, S. (2010). *Pengenalan Seismologi Gunungapi. Diklat Pelaksana Pemula Pengamat Gunungapi Baru*. Vulkanologi dan Mitigasi Bencana Geologi.
- Hurukawa, N., Popa, M., & Radulian, M., Radulian, M. (2008). Relocation of Large Intermediate Depth Earthquakes in The Vrancea Region, Romania, Since 1934 and a Seismic Gap. *Earth, Planets and Space*, 60(6), 565–572.
- Indrastuti, N. (2015). *Studi Kegempaan dan Seismik Tomografi Gunung Sinabung*. Tesis Magister, Prodi Sains Kebumihan, Sekolah Pasca Sarjana.
- Indrastuti, N., Nugraha, A. D., Gunawan, H., & McCausland, W. (2019). 3-D Seismic Tomographic Study of Sinabung Volcano, Northern Sumatra, Indonesia, during the Inter Eruptive Period October 2010–July 2013. *J. Volcanol. Geotherm*, 382(1), 197–209.
- Indrastuty, N. (2014). *Studi Kegempaan Seismik Tomografi Gunung Sinabung*. ITB.
- Iqbal, M. S. (2020). Analisis Data Gaya Berat di Daerah Benda Duwur Semarang. *Journal of Research and Technology*.

- Jozi Najafabadi, A., Haberland, C., Ryberg, T., Verwater, V. F., Le Breton, E., Handy, M. R., & Weber, M. (2021). Relocation of Earthquakes in The Southern and Eastern Alps (Austria, Italy) Recorded by the dense, Temporary SWATH-D Network Using a Markov Chain Monte Carlo Inversion. *Solid Earth*, 12(5), 1087–1109. <https://doi.org/10.5194/se-12-1087-2021>
- Katili, J., A. (1980). *Geotectonics of Indonesia : a Modern View*. Direktorat Jendral Pertambangan.
- Kumalasari, R. (2019). *Dinamika Sumber Tekanan Gunung Sinabung Berdasarkan Data GPS Tahun 2011-2016* (Vol. 30213001). Institut Teknologi Bandung.
- Kumalasari, R. (2021). Pemodelan Kantung Magma Gunung Sinabung dengan berdasarkan Data GPS Tahun 2015-2016. *JoP*, 6(2), 30–36.
- Lestari, dwi. (2019). Visualisasi Struktur Bawah Permukaan Gunung Merapi Menggunakan Data Anomali Gravitasi Citra Satelit. *Skripsi*.
- Malla Avila, D. E. (2022). Identifikasi Magma Chamber di Kawasan Gunungapi Kelud dengan Memanfaatkan Data Anomali Medan Gravitasi Citra Satelit Topex/Posaidon. 2005–2003, 8.5.2017, 7787.
- Maulana, A. D. (2019). Analisa Matematis Pada Koreksi Bouguer Dan Koreksi Medan Data Gravitasi Satelit Topex Dalam Penentuan Kondisi Geologi Studi Kasus Sesar Palu Koro, Sulawesi Tengah. *Jurnal Geosaintek 2019*.
- Meiliana, R., Rizki, R., & Fattah, E. I. (2008). Analisis Model Kecepatan Seismik 1-D dan Relokasi Hiposenter Gempa Sumatera Utara 19 Mei-31 Agustus 2008. *Repo.Itera.Ac.Id*. http://repo.itera.ac.id/assets/file_upload/SB2009140090/12116165_20_131247.pdf
- Miftahul Huda, A. M., & Sahara, A. (2021). Penentuan Sumber Gempa Lokal Berdasarkan Waktu Tiba Gelombang P Dan S: Studi Kasus Lengan Utara Pulau Sulawesi. *PETROGAS: Journal of Energy and Technology*, 3(2), 29–38. <https://doi.org/10.58267/petrogas.v3i2.68>
- Nakada, S., Zaennudin, A., Yoshimiti, M., Maeno, F., Hokanishi, N., Iguchi, M., Ohkura, T., & Gunawan, H., dan Triastuty, H. (2017). Growth process of the lava dome/flow complex during 2013-2016 at Sinabung Volcano, North Sumatra, Indonesia. *Journal of Vulcanology and Geothermal Research*.
- Nakada, S., Zaennudin, A., Yoshimiti, M., Maeno, F., Suzuki, Y., Hokanishi, N., Iguchi, M., Ohkura, T., Gunawan, H., & Triustuty, H. (2019). Growth process of the lava dome/flow complex at Sinabung Volcano during 2013–2016. *J. Volcanol. Geotherm*, 382(12), 120–136.
- Nishi, K. (2005). *Hypocenter Calculation Software GAD (Geiger's method with Adaptive Damping)*. Silver Expert JICA Indonesia.
- Nugraha, A. D., Indrastuti, N., Kusnandar, R., Gunawan, H., McCausland, W.,

- Aulia, A. N., & Harlianti, U. (2019). Joint 3-D tomographic imaging of Vp, Vs and Vp/Vs and hypocenter relocation at Sinabung volcano, Indonesia from November to December 2013. *Journal of Volcanology and Geothermal Research*, 382, 210–223. <https://doi.org/10.1016/j.jvolgeores.2017.09.018>
- Pratomo, I. (2006). Klasifikasi Gunungapi Aktif Indonesia, Studi Kasus dari Beberapa Letusan Gunungapi dalam Sejarah. *Jurnal Geologi Indonesia*, 1(4), 209–227.
- Putra, A. (2017). *Analisis Bahaya Gunung Sinabung*. Pusat Vulkanologi dan Mitigasi Bencana Geologi.
- Putra, V. D. (2016). Penentuan Distribusi Hiosenter Gempa Vulkanik Gunung Soputan, Sulawesi Utara Menggunakan Metode Geiger. In *Universitas Brawijaya* (Vol. 13, Issue 3). Universitas Brawijaya.
- Reynolds, J. M. (1997a). *An Introduction to Applied and Enviromental Geophysics*. John Wiley & Sons.
- Reynolds, J. M. (1997b). *An Introduction to Applied and Enviromental Gheophysics* (John Wiley & Sons (ed.)).
- Rusdiana, D. D. (2022). Penentuan Hiposenter dan Mekanisme Fokal (Focal Mechanism) Gempa Volcanotectonic (VT) pada Gunungapi Agung menggunakan P Wave First Motion Polarity Periode Erupsi November - Desember 2017. *Fakultas Teknik*, 2017(8.5.2017), 2003–2005.
- Safitri, Rizki., & Fattah. (2008). Analisa Relokasi Hiposenter Gempa Tarutung Sumatera Utara 2008 menggunakan Metode Coupled Velocity-Hypocenter. *Repo.Itera.Ac.Id*.
http://repo.itera.ac.id/assets/file_upload/SB2009140100/12116107_20_124203.pdf
- Sarkowi, M. (2014). *Eksplorasi Gaya Berat*. Graha Ilmu.
- Suantika, I. G. (2007). *Seismologi Gunungapi*. Pusat Vulkanologi dan Mitigasi Bencana Geologi.
- Suryadi, A. (2018). *Modul Praktikum Geofisika Terapan*. Universitas Riau.
- Sutawidjaja, I. S., Prambada, O., & Siregar, D. A. (2013). The Augustus 2010 Phreatic Eruption of Sinabung, North Sumatera, Indonesian. *Journal of Geology*, 8.
- Telford, W. M., Geldart, L. P., & R.E, S. (1990). *Applied Geophysics* (Second edi). Cambridge University Press.
- Visser, S. W. (1922). Inland and Submarine Epicentra of Sumatra and Java Earthquakes. *Javasche Boekhandel En Drukkerij*, 2(2), 23–28.
- Wassermann, J. (2002). Volcano Seismology New Manual of Seismological Observatory Practice (NMSOP). *IASPEI*, 1.

Witton, & Pattick, E. (2003). *Volcano Seismology in Indonesia*. Lonely Planet Publications.

Zahwa, F., Fattah, E. I., Hasanah, M. U., & Wijatmoko, B. (2019). Microearthquake relocation hypocenter using Modified Joint Hypocenter Determination (MJHD) method. (case study: Opak fault). *IOP Conference Series: Earth and Environmental Science*, 311(1). <https://doi.org/10.1088/1755-1315/311/1/012066>

Zobin, V. M. (2012). Introduction to Volcanic Seismology. *Elsevier Insights*, 2(5), 4–8.