



## DAFTAR PUSTAKA

- Anderson, J.G., 2004, Quantitative measure of the goodness-of-fit of synthetic seismograms, *Conference Proceedings*, Vancouver, Canada, Paper 243.
- Adyatma, Y., 2011, Perhitungan hiposenter dan magnitudo gempa vulkanik Gunung Kelud selama aktivitas tanggal 1 September-12 Oktober 2007, *Skripsi*, Jurusan Matematika FMIPA UGM. Yogyakarta.
- Allen,R. 1978, Automatic earthquake recognition and timing from single traces. *Bull. Seismological Soc. Amer.*, v.68,pp.1521-1532
- Aoi, S., and H. Fujiwara., 1999, 3D finite-difference method using discontinuous grids, *Bull. Seism. Soc. Am.* 89,918–930.
- Arisalwadi, M., 2012, Karakteristik Sinyal Gempa Vulkanik Gunung Kelud Setelah Erupsi Tahun 2007,*Skripsi*, FMIPA Universitas Mataram. Mataram.
- Chouet, B., 1996a, New methods and future trends in seismological volcano monitoring, *Monitoring and Mitigation of Volcano Hazard*, Eds. R. Scarpa and R.Trilling, Springer-Verlag, Berlin, New York. Pp. 23-98.
- Evans, J. and S. Allen (1983). A teleseismic-specific detection algorithm for single short period traces, *Bull. Seism. Soc. Am.* 73, 1173-1186.
- Geller, R. J., and N. Takeuchi (1995). A new method for computing highly accurate DSM synthetic seismograms, *Geophys. J. Int.* 123,449–470.
- Havskov, J., and Ottomoller,L., 2010. *Routine Data Processing In Earthquake Seismology with sample Data, Exercises and Software*. Department of Earth Science University of Bergen. New York.
- Haerani, N., Hendrasto, M., dan Abidin, H.Z., 2010. Deformasi Gunung Kelud Pasca Pembentukan Kubah Lava November 2007. *Jurnal Pusat Vulkanologi dan Mitigasi Bencana Geologi*, Badan Geologi, Bandung.
- Husein, S., 2009. *Handout Geologi Dasar*. Jurusan Teknik Geologi. Fakultas Teknik. Universitas Gadjah Mada.
- Kirbani,S.R., dan Wahyudi., 2007, Eruption of The Kelud Volcano and B-Value of its Surrounding Earthquakes, *Jurnal Geofisika UGM*, Yogyakarta.
- Kristekova,M., Kristek,J., Moczo,P., and Day,M.S., 2006, Misfit criteria for quantitative comparison of seismograms, *Bulletin of the seismological Society of America*, Vol.96, No.5,pp. 1836-1850.
- Kristekova,M., Kristek,J., and Moczo,P., 2009, Time-Frequency Misfit and Goodness of Fit Criteria for Quantitative Comparison of Time Signals, *Geophysics journal International*. 178, 813-825.



- Lasono, L. 2011, Kombinasi Spektral Dekomposisi Berbasis Transformasi Wavelet Kontinyu (CWT) Dan Seismik Inversi Untuk Karakterisasi Reservoir Prospect “L” : Studi Kasus Cekungan Sumatera Selatan, *Tesis*, FMIPA, UI, Jakarta.
- Lesage, Ph. dan Surono, 1994. Seismic Precursors of the february 10,1990 eruption of Kelut volcano, Java. *Journal of Volcanology and Geothermal Research* 65. 135-146.
- Minakami,T., Hiraga,S., Miyazaki,T., and Utibori,S., 1969, Seismometrical Surveys of Volcanoes in Japan and Volcano Sotara in Colombia, *Bulletin of the Earthquake Research Institute*, Vol.47, pp.893-949.
- Muhaimin., 2008, *Studi Kegempaan Gunung Kelud Oktober 2007, Skripsi*, Program studi Geofisika ITB, Bandung.
- Musafak,Z. dan Satosa,B.J., 2010, Interpretasi Metode Magnetik Untuk Penentuan Struktur Bawah Permukaan Di Sekitar Gunung Kelud Kabupaten Kediri, *Jurnal ITS*, Surabaya.
- Omori,F., 1912, The Eruptions and Earthquakes of The Asama-yama, *Bull.Imper.Earthq. Invest.Com* 6.
- Praja,N.K., 2013, Mekanisme Aktivitas Gunung Api Semeru 2010 Berdasarkan Analisis Gempa Bumi Vulkan-Tektonik, *Tesis Doktor Institut Teknologi Bandung*, Bandung.
- Pergina, K. 2011, Analisis Dekomposisi Spektral Untuk Identifikasi Penyebaran Lateral Lapisan Tipis Batubara Menggunakan Metode Continuous Wavelet Transform (CWT), *Tesis*, Universitas Indonesia, Indonesia.
- Refrizon dan Suwarsono, 2006, Hubungan Aktivitas Gempa Tektonik Daerah Subduction Indo-Australia Eurasia Segmen Enggano Tahun 2000 dengan Aktivitas Gempa Vulkanik Gunungapi Kaba dan Dempo. *Jurnal Universitas Bengkulu*, FMIPA. Universitas Bengkulu.
- Rugayya, S, 2015. Karakterisasi Sinyal Seismik Di Bledug Kuwu, Grobogan, Jawa Tengah Menggunakan Kriteria Time-Frequency Misfit dan Goodness-Of-Fit, *Tesis*, Universitas Gadjah Mada, Yogyakarta
- Schweitzer,J., Fyen,J., Mykkeltveit,S., Kvarna,T., 2002, Seismic Arrays. IASPEI, *New Manual of Seismological Observatory Practice (NMSOP) Volume 1*. GeoForschungsZentrum Potsdam, Jerman.
- Sharma,B.K., Kumar,A., and Murthy,V.M., 2010, Evaluation of Seismic Events Detection Algorithms, *Journal Geological Society of India*. Vol.75, pp 533-538.



- Syiko, S.F., Rachmawati, T.A., Rachmansyah, A., 2014. Analisis Resiko Bencana Sebelum dan Setelah Letusan Gunung Kelud Tahun 2014 (Studi kasus di Kecamatan Ngantang, Malang). *Jurnal Pembangunan dan Alam Lestari*. Vol 5.No.2.
- Trnkoczy,A., 2011, Understanding and parameter setting of STA/LTA trigger Algorithm, New Manual of Seismology Observatory Practice. *Bulletin of IASPEI*. Volume 1; DOI: 10.2312/GFZ.NMSOP-2\_IS\_8.1.
- Wassermann,J., 2002, Volcano Seismology. IASPEI, *New Manual of Seismological Observatory Practice (NMSOP) Volume 1*. GeoForschungsZentrum Potsdam, Jerman.
- Widodo, 2012, *Seismologi Teknik dan Rekayasa Kegempaan*, Pustaka Pelajar. Yogyakarta.
- Withers, M., Aster,R., Young,C., Beiriger,J., Harris,M., Moore,S., and Trujillo,J., 1998, A Comparison of Selected Trigger algorithms for Automated Global Seismic Phase and Event Detection, *Bull.Seismological Society*. America., v .88, pp.95-106.
- Withers, M., 1997, An Automated LocalRegional Seismic Event Detection and Location System Using Waveform Correlation. *Submitted in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy*, New Mexico Tech. New Mexico.
- Wittiri, S.R, 2009, Indikasi munculnya Kubah Lava berdasarkan Rekaman Seismik, *Jurnal Geologi Indonesia*, Vol. 4 No. 2. 93-101.
- Zaennudin, A, 2009, Prakiraan Bahaya Erupsi Gunung Kelud. *Bulletin Vulkanologi dan Bencana Geologi*, Volume 4 Nomor 2. 1 - 17.
- Zobin,V.M., 2003, *Introduction to Volcanic Seismology. Developments in volcanology*;6. Elsevier Science.B.V.



UNIVERSITAS  
GADJAH MADA

KARAKTERISASI SINYAL GEMPA VULKANIK GUNUNG KELUD MENGGUNAKAN METODE STA/LTA  
MISFIT DAN  
GOODNESS-OF-FIT (STUDI KASUS ERUPSI NOVEMBER 2007)

LAILATUL HUSNA BR LUBIS, Dr.rer.nat Wiwit Suryanto

Universitas Gadjah Mada, 2016 | Diunduh dari <http://etd.repository.ugm.ac.id/>

## LAMPIRAN