



## **DAFTAR PUSTAKA**

- Aki, K., and Lee, W.H.K., 1976, Determination of Three-dimensional Anomalies under a Seismic Array Using First P Arrival Times from Local Earthquakes, 1. A Homogeneous Initial Model, *J. Geophys. Res.* 81, 4381–4399.
- Byrne, D. E., Davis, D. M., and Sykes., L. R., 1988. Loci and maximum size of thrust earthquakes and the mechanics of the shallow region of sub-duction zones. *Tectonics*, 7(4), 833–857.
- Carlson, D.H., Plummer, C.C., and McGeary, T.L.D., 2008, *Physical Geology: Earth Revealed*, McGraw-Hill, New York
- Engdahl, E. R., van der Hilst, R. D. and Buland, R., 1998, Global teleseismic earthquake relocation withimproved travel times and procedures for depth determination. *Bulletin of the Seismological Society of America*, 88, 722– 743.
- Engdahl, E. R., Villaseñor, A., DeShon, H. R. and Thurber, C. H., 2007, Teleseismic relocation andassessment of seismicity (1918–2005) in the regionof the 2004 Mw 9.0 Sumatra-Andaman and 2005 Mw8.6 Nias Island great earthquakes. *Bulletin of theSeismological Society of America*, 97, S43– 61
- Evans, J., Eberhart-Phillips, D., and Thurber, C.H., 1994, User's Manual for SIMULPS12 for Imaging Vp and Vp/Vs: A Derivative of the 'Thurber' Tomographic Inversion SIMUL3 for Local Earthquakes, *USGS Open File Report*, 94-431
- Grandis, H., 2009, Pengantar Pemodelan Inversi Geofisika, Institut Teknologi



Bandung

Grant, F.S., and West, G.F., 1969, Interpretation Theory in Applied Geophysics, New York, Mc. Graw Hill, Inc.

Haryanto I., Hutabarat J., Sudrajat A., Ilmi N. N. and Sunardi, E., 2017, Tektonik Sesar Cimandiri, Provinsi Jawa Barat Bulletin of Scientific Contribution: GEOLOGY 15 255-274

Kopp, H., Hindle, D., Klaeschen, D., Oncken, O., Reichert, C., and Scholl, D., 2009, Anatomy of the western Java plate interface from depth-migrated seismic images: Earth and Planetary Science Letters, v. 288, p. 399–407, doi: 10.1016/j.epsl.2009.09.043. Hall, R., and Spakman, W., 2015, Mantle Structure and Tectonic History of SE Asia, *Tectonophysics*, 15-41

Hamilton, W.B., 1925, *Tectonics of Indonesia Region*, U.S Government Printing Office, Washington D.C

Handayani, L., and Harjono, H., 2008, Perkembangan tektonik daerah busur muka Selat Sunda dan hubungannya dengan Zona sesar Sumatra. Jurnal Riset Geologi dan Pertambangan, 18(2), 31–40

Harjono, H., Diament, M., Nouailhi, L., and Dubois, J., 1989, Detection of magma bodies beneath Krakatau volcano (Indonesia) from anomalous shear waves. Journal of Volcanology and Geothermal Research, 39, 335–348

Harjono, H., Diament, M., Dubois, J., Larue, M., and Zen, M. T., 1991, *Seismicity of the Sunda Strait: Evidence for crustal extension and volcanological implications*. Tectonics, 10(1), 17–30

Haryanto, I., Hutabarat, J., Sudrajat, A., Ilmi, N. N. and Sunardi E., 2017, Tektonik Sesar Cimandiri, Provinsi Jawa Barat Bulletin of Scientific Contribution: GEOLOGY 15 255-274



- Kopp, H., 2002, Crustal structure of the Java margin from seismic wide-angle and multichannel reflection data. *Journal of Geophysical Research*, 107(B2), 2034–. doi:10.1029/2000jb000095
- Newcomb, K. R, and McCann, W. R., 1987, *Seismic history and seismotectonics of the Sunda arc*. *Journal of Geophysical Research (JGR)*, 92(B1), 421–439
- Nugraha, A.S. and Hall, R., 2012, Cenozoic History of the East Java Forearc. Proceedings Indonesian Petroleum Association, 36th Annual Convention & Exhibition, Jakarta, 23-25 May 2012, IPA12-G-028.
- Paige, C.C., and Saunders, M.A., 1982, LSQR: Sparse Linier Equations and Least Squares Problems, *ACM Transactions on Mathematical Software*, 195-209
- Anonim , 1992, Laboratorium Geofisika Jurusan Fisika, FMIPA UGM, Yogyakarta.
- Pesicek, J. D., Thurber, C. H., Widjiantoro, S., Engdahl, E. R. & DeShon, H. R., 2008, Complexslab subduction beneath northern Sumatra. *Geophysical Research Letters*, 35, L20303, doi: 10.1029/2008GL035262.
- Pesicek, J. D., Thurber, C. H., Widjiantoro, S., Engdahl, E. R., DeShon, H. R. and Zhang, H., 2010, Sharpening the tomographic image of the subductingslab below Sumatra, the Andaman Islands, and Burma. *Geophysical Journal International*, 182, 433–453
- Rosalia, Shindy; Widjiantoro, Sri; Dian Nugraha, Andri; Ash Shiddiqi, Hasbi; Supendi, Pepen; and Wandono, 2017, Hypocenter Determination Using a Non-Linear Method for Events in West Java, Indonesia: A Preliminary Result. *IOP Conference Series: Earth and Environmental Science*, 62(), 012052–. doi:10.1088/1755-1315/62/1/012052
- Sakti, A. P., 2012, Kajian Seismitas Wilayah Selat Sunda dan Jawa Bagian Barat Menggunakan Data Hasil Relokasi Simultan Terhadap Struktur Kecepatan Tiga



Dimensi Gelombang P, JTM Vol. XIX No. 2/2012.

Sujanto, F. X. and Sumantri, Y. R., 1977, Preliminary Study on the Tertiary Depositional Patterns of Java. Bulletin of Scientific Contribution, Volume 13, Nomor 3. Desember 2015: 182-191

Supendi, P. and Nugraha, A.D., 2016, Preliminary result of earthquake hypocenter determination using hypoellipse around western Java region.

Susilawati, 2004, Seismik Refraksi (Dasar Teori & Akuisisi Data), Universitas Sumatera Utara

Thurber, C.H., 1993, Local Earthquake Tomography Velocities and Vp/Vs Theory, *Seismic Tomography: Theory and Practice*, 563-583

Toomey, D. R. and Foulger, G. R., 1989, *Tomographic inversion of local earthquake data from the Hengill-Grensdalur Central Volcano Complex, Iceland. Journal of Geophysical Research*, 94(B12), 17497-. doi:10.1029/jb094ib12p17497

Trueman, N. A., 1965,. "The phosphate, volcanic and carbonate rocks of Christmas Island (Indian Ocean)", Journal of the Geological Society of Australia, 12 (2): 261–283

Um, J., Thurber, C.H., 1987, A Fast Algorithm for Two-Point Seismic Ray Tracing, *pBull. Seismol. Soc. Am.*, 972-986

Van Bemmelen, R.W., 1949, The Geology of Indonesia, V.F.A. Government Printing Office, The Hague, 732 p.

Waldhauser, F., 2001, hypoDD: A Computer Program to Compute Double-Difference Hypocenter Locations, U.S Geological Survey, Open File Report 01-113, 25



UNIVERSITAS  
GADJAH MADA

**IDENTIFIKASI BAGIAN SELATAN PULAU JAWA MENGGUNAKAN METODE TOMOGRAFI WAKTU  
TEMPUH DOUBLE-DIFFERENCE**  
SABRINA S S, Prof. Dr. Sismanto, M.Si; Andry Syaly Sembiring S.Si., M.Si.  
Universitas Gadjah Mada, 2022 | Diunduh dari <http://etd.repository.ugm.ac.id/>

Waldhauser, F., Ellsworth, W.L., 2000, A Double-Difference Earthquake Location Algorithm Method an Application to the Northern Hayward Fault, California, *Bull. Seism Soc. Am.*, 1368-1548

Widiyantoro, S., and R. D. van der Hilst, 1996, *Structure and evolution of subducted lithosphere beneath the Sunda arc, Indonesia*, Sci.Rep.,271(5255), 1566–1570

Widiyantoro, S., Pesicek, J. D. and Thurber, C. H., 2011, Subducting slab structure below the eastern Sunda arc inferred from non-linear seismic tomographic imaging. Geological Society, London, Special Publications, 355(1), 139–155. doi:10.1144/sp355.7

Wolfe, C., 2002, On the Mathematics of Using Difference Operators to Relocate Earthquake, *Bull Seism. Soc. Am.*, 92, 2879-2892

Zhang, H., Thurber, C.H., 2003, Double-Difference Tomography: The Method and Its Application to the Hayward Fault, California, *Bull. Seism. Soc. Am.*, 1875-1889

Zhang, H., Thurber, C.H., 2006, Development and Application of Double Difference Seismic Tomography, *J. Pure Appl. Geophysics*, 163, 373-4