

DAFTAR PUSTAKA

- Abidin, H. Z., Susilo, S., Meilano, I., Subarya, C., Prijatna, K., Syafi'i, M. A., Hendrayana, E., Effendi, J., & Sukmayadi, D. (2015). On The Development and Implementation of A Semi-dynamic Datum for Indonesia. *International Association of Geodesy Symposia, June*, 91–99. https://doi.org/10.1007/1345_2015_83
- Altamimi, Z., Collilieux, X., Legrand, J., Garayt, B., & Boucher, C. (2007). ITRF2005: A New Release of The International Terrestrial Reference Frame Based on Time Series of Station Positions and Earth Orientation Parameters. *Journal of Geophysical Research: Solid Earth*, 112(9), 1–19. <https://doi.org/10.1029/2007JB004949>
- Altamimi, Z., Rebischung, P., Métivier, L., & Collilieux, X. (2016). ITRF2014: A New Release of The International Terrestrial Reference Frame Modeling Nonlinear Station Motions. *Journal of Geophysical Research: Solid Earth*, 121(8), 6109–6131. <https://doi.org/10.1002/2016JB013098>
- Angermann, D., Seitz, M., & Drewes, H. (2013). Global Terrestrial Reference Systems and Their Realizations. In G. Xu (Ed.), *Sciences of Geodesy - II: Innovations and Future Developments* (pp. 97–132). Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-642-28000-9_3
- Anggriani, R. M., Pujiastuti, D., & Arisa, D. (2020). Analisis Deformasi Koseismik Gempa Mentawai 2008 Menggunakan Data GPS SuGAR. *Jurnal Fisika Unand*, 9(2), 150–155. <https://doi.org/10.25077/jfu.9.2.150-155.2020>
- Becker, J. J., Sandwell, D. T., Smith, W. H. F., Braud, J., Binder, B., Depner, J., Fabre, D., Factor, J., Ingalls, S., Kim, S.-H., Ladner, R., Marks, K., Nelson, S., Pharaoh, A., Trimmer, R., Von Rosenberg, J., Wallace, G., & Weatherall, P. (2009). Global Bathymetry and Elevation Data at 30 Arc Seconds Resolution: SRTM30 PLUS. *Marine Geodesy*, 32(4), 355–371. <https://doi.org/10.1080/01490410903297766>
- Bock, Y. (2003). Crustal Motion in Indonesia from Global Positioning System Measurements. *Journal of Geophysical Research*, 108(B8). <https://doi.org/10.1029/2001JB000324>, 2003.
- Calais, E., Gonzalez, O. F., Arango-Arias, E. D., Moreno, B., Palau, R., Cutie, M., Diez, E., Montenegro, C., Rodriguez Roche, E., Garcia, J., Castellanos, E., & Symithe, S. (2023). Current Deformation Along Tthe Northern Caribbean Plate Boundary from GNSS Measurements in Cuba. *Tectonophysics*, 868. <https://doi.org/10.1016/j.tecto.2023.230068>
- Cheaney, R. F. (1992). E. H. Isaaks & R. M. Srivastava 1990. An Introduction to Applied Geostatistics. xix + 561 pp. New York, Oxford: Oxford University Press. Price £19.50 (paperback). ISBN 0 19 505013 4. *Geological Magazine*, 129(1). <https://doi.org/10.1017/s0016756800008189>
- Demets, C., Gordon, R. G., & Argus, D. F. (2010). Geologically Current Plate Motions. *Geophysical Journal International*, 181(1), 1–80. <https://doi.org/10.1111/j.1365->

246X.2009.04491.x

- Evelinda, S. (2022). *Analisis Perbandingan Metode Moving Average Filter Terhadap Laju Pergeseran dan Laju Regang untuk Identifikasi Sesar Aktif di Pulau Jawa dan Sekitarnya*.
- France, I. (n.d.). *Science background - General concepts*. <https://itrf.ign.fr/en/background>
- Fuadi, F. Z., Kuncoro, H., Wibowo, S. T., & Rizqiansyah, A. (2020). Slip Deficit Rates Estimation at Baribis Fault on 2016-2019 GPS Observations. *Prosiding FTSP Series 1, 1*.
- Fulki, A. (2011). Analisis Parameter Gempa, b-value dan PGA di daerah Papua. In *Universitas Islam Negeri Syarif Hidayatullah Jakarta*.
- Ghilani, C. D. (2010). *Adjustment Computations Spatial Data Analysis*.
- Ghilani, C. D. (2017). Adjustment Computations. In *Adjustment Computations*. <https://doi.org/10.1002/9781119390664>
- Goovaerts, P. (1997). *Geostatistics for Natural Resources Evaluation*. Oxford University Press, New York.
- Herring, T. A., Melbourne, T. I., Murray, M. H., Floyd, M. A., Szeliga, W. M., King, R. W., Phillips, D. A., Puskas, C. M., Santillan, M., & Wang, L. (2016). Plate Boundary Observatory and Related Networks: GPS Data Analysis Methods and Geodetic Products. *Reviews of Geophysics*, 54(4), 759–808. <https://doi.org/10.1002/2016RG000529>
- Irwansyah, E., & Winarko, E. (2012). Zonasi Daerah Bahaya Kegempaan. *Seminar Nasional Informatika, 2012(semnasIF)*, 14–21.
- Ismunarti, D. H., Zainuri, M., Sugianto, D. N., & Saputra, S. W. (2020). Pengujian Reliabilitas Instrumen Terhadap Variabel Kontinu Untuk Pengukuran. *Buletin Oseanografi Marina*, 9(1), 1–8. <https://doi.org/10.14710/buloma.v9i1.23924>
- King, A. P., & Eckersley, R. J. (2019). Chapter 5 - Inferential Statistics II: Parametric Hypothesis Testing. In A. P. King & R. J. Eckersley (Eds.), *Statistics for Biomedical Engineers and Scientists* (pp. 91–117). Academic Press. <https://doi.org/https://doi.org/10.1016/B978-0-08-102939-8.00014-1>
- Koulali, A., McClusky, S., Susilo, S., Leonard, Y., Cummins, P., Tregoning, P., Meilano, I., Efendi, J., & Wijanarto, A. B. (2017). The Kinematics of Crustal Deformation in Java from GPS Observations: Implications for Fault Slip Partitioning. *Earth and Planetary Science Letters*, 458, 69–79. <https://doi.org/10.1016/j.epsl.2016.10.039>
- Li, X., Chen, Y., Wang, X., & Xiong, R. (2023). The Crustal Dynamics and Its Geological Explanation of the Three-Dimensional Co-Seismic Deformation Field for the 2021 Maduo MS7.4 Earthquake Based on GNSS and InSAR. *Sensors*, 23(8). <https://doi.org/10.3390/s23083793>
- Maumayan, D. D. (2016). Analisa Perubahan Massa Bumi Akibat Gempa Menggunakan



- Data Satelit Gaya Berat Grace. *Tesis, Program Magister Bidang Keahlian Teknik Geomatika, Jurusan Teknik Geomatika, Fakultas Teknik Sipil Dan Perencanaan, Institut Teknologi Sepuluh November*. <https://repository.its.ac.id/75540/>
- Mauradhia, A., Anjasmara, I. M., Geomatika, D. T., Teknologi, I., & Nopember, S. (2019). Analisis Deformasi Berdasarkan Pergeseran Titik Pengamatan GPS di Kota Surabaya. *Jurnal Teknik ITS*, 8(2), 213–218.
- McCaffrey, R. (2009). Time-dependent Inversion of Three-component Continuous GPS for Steady and Transient Sources in Northern Cascadia. *Geophysical Research Letters*, 36(7), 0–5. <https://doi.org/10.1029/2008GL036784>
- Metcalfe, I. (2017). Tectonic Evolution of Sundaland. *Bulletin of the Geological Society of Malaysia*, 63(June), 27–60. <https://doi.org/10.7186/bgsm63201702>
- Nikolaidis, R. (2002). *Observation of Geodetic and Seismic Deformation with the Global Positioning System* (Issue 1). University of California, San Diego.
- Nugraha, A. D., Shiddiqi, H. A., Widiyantoro, S., Thurber, C. H., Pesicek, J. D., Zhang, H., Wiyono, S. H., Ramdhan, M., Wandono, & Irsyam, M. (2018). Hypocenter Relocation along the Sunda Arc in Indonesia, Using a 3D Seismic-Velocity Model. *Seismological Research Letters*, 89(2A), 603–612. <https://doi.org/10.1785/0220170107>
- Okada, Y. (1995). Simulated Empirical Law of Coseismic Crustal Deformation. *Journal of Physics of the Earth*, 43(6), 697–713. <https://doi.org/10.4294/jpe1952.43.697>
- Pan, L., Xiong, B., Li, X., Yu, W., & Dai, W. (2023). High-rate GNSS Multi-frequency Uncombined PPP-AR for Dynamic Deformation Monitoring. *Advances in Space Research*, 72(10). <https://doi.org/10.1016/j.asr.2023.08.056>
- Pramono, G. H. (2008). Akurasi Metode IDW dan Kriging untuk Interpolasi Sebaran Sedimen Tersuspensi. *Forum Geografi*, 22(1). <https://doi.org/10.23917/forgeo.v22i1.4929>
- Pratama, C., Heliani, L. S., Widjajanti, N., Gunawan, E., Anjasmara, I. M., Novianti, S. T., Sari, T. W., Yuni, R. E., & Sekarsari, A. (2022). Recent GPS-based Long Wavelength Crustal Deformation Revealed Active Postseismic Deformation Due to The 2006 Yogyakarta Earthquake. *Journal of Applied Geodesy*, 16(2). <https://doi.org/10.1515/jag-2020-0053>
- Pratama, C., Meilano, I., Sunarti, E., Haksama, S., & Sulistiyo, M. D. (2020). Data-Driven of Time Series Decomposition on Estimating Geodetic Secular Motion around Palu-Koro Fault Zone. *2020 8th International Conference on Information and Communication Technology, ICoICT 2020, June*. <https://doi.org/10.1109/ICoICT49345.2020.9166422>
- Pusat Studi Gempa Nasional. (2017). Peta Sumber dan Bahaya Gempa Indonesia Tahun 2017. In *Pusat Penelitian dan Pengembangan Perumahan dan Permukiman, Badan Penelitian dan Pengembangan, Kementerian Pekerjaan Umum dan Perumahan Rakyat, Jakarta*.



- Pusgen. (2018). *Peta Sumber dan Bahaya Gempa Indonesia Tahun 2017*. <http://litbang.pu.go.id/puskim/source/pdf/Peta-Gempa-31-Jan-2018.pdf>
- Rafiq, M., Anjasmara, I. M., & Maulida, P. (2023). *Analisis Deformasi Pulau Jawa Bagian Timur Menggunakan Data Pengamatan GPS Tahun 2017-2022*. Institut Teknologi Surabaya.
- Rahmadani, S., Meilano, I., Susilo, S., Sarsito, D. A., Abidin, H. Z., & Supendi, P. (2022). Geodetic Observation of Strain Accumulation in The Banda Arc Region. *Geomatics, Natural Hazards and Risk*, 13(1), 2579–2596. <https://doi.org/10.1080/19475705.2022.2126799>
- Rees, M., & Cressie, N. (1993). Statistics for Spatial Data. *Journal of the Royal Statistical Society. Series A (Statistics in Society)*, 156(1). <https://doi.org/10.2307/2982871>
- Sohil, F., Sohali, M. U., & Shabbir, J. (2022). An Introduction to Statistical Learning With Applications in R. *Statistical Theory and Related Fields*, 6(1). <https://doi.org/10.1080/24754269.2021.1980261>
- Stanaway, R., Roberts, C., Blick, G., & Crook, C. (2012). Four Dimensional Deformation Modelling, the Link Between International, Regional and Local Reference Frames. *FIG Working Week 2012, May 2012*, 4–8.
- Sukkuea, A. (2022). Improved Kriging Algorithms for Spatial Data Interpolation. In *Prince of Songkla University*.
- Supendi, P., Nugraha, A. D., Widiyantoro, S., Pesicek, J. D., Thurber, C. H., Abdullah, C. I., Daryono, D., Wiyono, S. H., Shiddiqi, H. A., & Rosalia, S. (2020). Relocated Aftershocks and Background Seismicity in Eastern Indonesia Shed Light on The 2018 Lombok and Palu Earthquake Sequences. *Geophysical Journal International*, 221(3), 1845–1855. <https://doi.org/10.1093/gji/ggaa118>
- Susilo. (2018). *Realisasi Model Deformasi Geodetik untuk Datum Semidinamik Di Indonesia*.
- Susilo, S., Salman, R., Hermawan, W., Widyaningrum, R., Wibowo, S. T., Lumban-Gaol, Y. A., Meilano, I., & Yun, S. H. (2023). GNSS Land Subsidence Observations Along The Northern Coastline of Java, Indonesia. *Scientific Data*, 10(1). <https://doi.org/10.1038/s41597-023-02274-0>
- Ulinuha, H., Sunantyo, T. A., & Widjajanti, N. (2019). Analisis Deformasi Segmen Mentawai Fase Post-Seismic 10 Juli 2013. *Seminar Nasional Geomatika*, 3, 813. <https://doi.org/10.24895/sng.2018.3-0.1073>
- Voosoghi, B. (2000). *Intrinsic Deformation Analysis of The Earth Surface Based on 3-dimensional Displacement Fields Derived From Space Geodetic Measurements*.
- Wibowo, S. T. (2016a). Abidin, H. Z., Andreas, H., Meilano, I., Gamal, M., Gumilar, I., & Abdullah, C. I. (2009). Deformasi Koseismik dan Pascaseismik Gempa Yogyakarta 2006 dari Hasil Survei GPS. *Jurnal Geologi Indonesia*, 4(4), 275–284. Andriyani, G., Kahar, S., Awaluddin, M., . Institut Teknologi Bandung.



- Wibowo, S. T. (2016b). *“Penentuan Metode Pemodelan Deformasi Komponen Secular Wilayah Indonesia Berdasarkan Data Pengamatan Geodetik.”* Institut Teknologi Bandung.
- Widjajanti, N., Pratama, C., Parseno, Sunantyo, T. A., Heliani, L. S., Ma'ruf, B., Atunggal, D., Lestari, D., Ulinuha, H., Pinasti, A., & Umami, R. F. (2020). Present-day Crustal Deformation Revealed Active Tectonics in Yogyakarta, Indonesia Inferred from GPS Observations. *Geodesy and Geodynamics*, 11(2), 135–142. <https://doi.org/10.1016/j.geog.2020.02.001>