

## DAFTAR PUSTAKA

- Abidin, H. Z., 2007, *Penentuan Posisi dengan GPS dan Aplikasinya*, PT. Pradnya Paramita, Jakarta.
- Adam, J. A. N., 2020, "Estimasi Nilai Laju Geser dan Geometri Sesar Opak Menggunakan Data Pengamatan Geodetik di Yogyakarta", Skripsi, Program Sarjana Teknik Geodesi, Universitas Gadjah Mada.
- Alif, S. M., Fattah, E. I., dan Kholil, M., 2020, "Geodetic Slip Rate And Locking Depth Of East Semangko Fault Derived From GPS Measurement", *Geodesy and Geodynamics*, 11(3), 222–228. <https://doi.org/10.1016/j.geog.2020.04.002>.
- Amarrohman, F. J., Nugraha, A. L., dan Hutagalung, C. M., 2022, "Analisis Deformasi Sesar Matano Menggunakan Data Ukuran GNSS Tahun 2018-2021", *Elipsoida : Jurnal Geodesi dan Geomatika*, 5(1), 24–29. <https://doi.org/10.14710/elipsoida.2022.16558>.
- Anonim, 2020, "Global Navigation Satellite System (GNSS)", United Nations Officer for Outer Space Affairs, diakses pada 25 Mei 2022, <https://www.unoosa.org/oosa/en/ourwork/psa/gnss/gnss.html>.
- Awaluddin, M., Sabri, L. M., Amarrohman, F. J., Yuwono, B. D., Nugraha, A. L., dan Imanuel, L., 2019, "Analysis of Kaligarang Fault Deformation with GNSS Survey in 2016-2018", *IOP Conference Series: Earth and Environmental Science*, Vol. 313(1), hal. 1–6. <https://doi.org/10.1088/1755-1315/313/1/012039>.
- Castro-Perdomo, N., Viltres, R., Masson, F., Klinger, Y., Liu, S., Dhahry, M., Ulrich, P., Bernard, J., Matrau, R., Alothman, A., Zahran, H., Reilinger, R., Mai, P. M., dan Jónsson, S., 2022, "Interseismic Deformation in the Gulf of Aqaba from GPS Measurements", *Geophysical Journal International*, Vol. 228(1), hal. 477–492. <https://doi.org/10.1093/gji/ggab353>.
- Chen, K. H., dan Bürgmann, R., 2017, "Creeping faults: Good news, bad news?" *Reviews of Geophysics*, 55(2), 282–286. <https://doi.org/10.1002/2017RG000565>.
- Cipta, A., Robiana, R., Griffin, J. D., Horspool, N., Hidayati, S., dan Cummins, P., 2017, "A Probabilistic Seismic Hazard Assessment for Sulawesi, Indonesia" *Geological Society Special Publication*, 441(1), 133–152. <https://doi.org/10.1144/SP441.6>.

- Dey, A., dan Rao, D. V. M., 2014, "Study and Analysis of Differential GNSS and Precise Point Positioning", *IOSR Journal of Electrical and Electronics Engineering*, Vol. 9(2), hal. 53–59. <https://doi.org/10.9790/1676-09215359>.
- El-Rabbany, A., 2002, *Introduction to GPS: the Global Positioning System*, Artech House, London.
- Fajriani, N., 2018, "Analisis Pola-Pola Sesar di Pulau Sulawesi dengan Menggunakan Data Gempa Studi Kasus (1977-2017)", Skripsi, Program Sarjana Fisika, Universitas Islam Negeri Alauddin Makassar.
- Fajriyanto, Suyadi, Dewi, C., dan Meilano, I., 2013, "Estimasi Slip rate dan Pembuatan Model Deformasi di Selat Sunda dengan Menggunakan GPS Kontinyu", *Seminar Nasional Sains & Teknologi V Lembaga Penelitian Universitas Lampung*, 19–20 November, Lampung.
- Fang, R., Lv, H., Shu, Y., Zheng, J., Zhang, K., dan Liu, J., 2021, "Improved Performance of GNSS Precise Point Positioning for High-rate Seismogeodesy with Recent BDS-3 and Galileo", *Advances in Space Research*, Vol. 68(8), hal. 3255–3267. <https://doi.org/10.1016/j.asr.2021.06.012>.
- Gao, Y. dan Chen, K., 2004, "Performance Analysis of Precise Point Positioning Using Real-Time Orbit and Clock Products", *Journal of Global Positioning Systems*, Vol. 3(1&2), hal. 95–100. <https://doi.org/10.5081/jgps.3.1.95>.
- Geng, J., Chen, X., Pan, Y., Mao, S., Li, C., Zhou, J., dan Zhang, K., 2019, "PRIDE PPP-AR: An Open-source Software for GPS PPP Ambiguity Resolution", *GPS Solutions*, Vol. 23(4), hal. 1–10. <https://doi.org/10.1007/s10291-019-0888-1>.
- Ghilani, C. D., 2010, *Adjustment Computations Spatial Data Analysis. 5th edition*. John Wiley & Sons, Inc., Hoboken, New Jersey.
- Guo, Q., 2015, "Precision Comparison and Analysis of four Online Free PPP Services in Static Positioning and Tropospheric Delay Estimation", *GPS Solutions*, Vol. 19(4), hal. 537–544. <https://doi.org/10.1007/s10291-014-0413-5>.
- Hamada, Y., Sakaguchi, A., Tanikawa, W., Yamaguchi, A., Kameda, J., dan Kimura, G., 2015, "Estimation of Slip Rate and Fault Displacement During Shallow Earthquake Rupture in the Nankai Subduction Zone", *Earth, Planets and Space*, Vol. 67(1). <https://doi.org/10.1186/s40623-015-0208-0>.
- Handoko, D., Widjadjanti, N., dan Muslim, B., 2019, "Performa Metode Precise Point

- Positioning* (PPP) dengan Koreksi Ionosfer Orde 1 pada Data Pengamatan Stasiun CORS BIG", *Jurnal "ELIPSOIDA,"* Vol. 2(2), hal. 78–84.
- Hartadi, J., Raharjo, S., Alfiani, O.D., 2015, "Pemodelan Tingkat Aktivitas Sesar Berdasarkan Analisis Deformasi Menggunakan Pengamatan GPS", Seminar Nasional Kebumihan X, UPN "Veteran" Yogyakarta, 18-19 November 2015, Yogyakarta.
- Harris, R. A., 2017, "Large Earthquakes and Creeping Faults", *Reviews of Geophysics*, 55(1), 169–198. <https://doi.org/10.1002/2016RG000539>.
- Ito, T., Gunawan, E., Kimata, F., Tabei, T., Simons, M., Meilano, I., Agustan, Ohta, Y., Nurdin, I., dan Sugiyanto, D., 2012, "Isolating Along-Strike Variations in the Depth Extent of Shallow Creep and Fault Locking on the Northern Great Sumatran Fault", *Journal of Geophysical Research: Solid Earth*, Vol. 117(6). <https://doi.org/10.1029/2011JB008940>.
- Janssen, V., 2009, "Understanding Coordinate Reference Systems, Datums and Transformations", *International Journal of Geoinformatics*, Vol. 5(4), hal. 41–53.
- Khairi, A., Awaluddin, M., dan Sudarsono, A. L., 2020, "Analisis Deformasi Seismik Sesar Matano Menggunakan GNSS dan Interferometrik SAR", *Jurnal Geodesi UNDIP*, Vol. 9(2), hal. 32–42.
- Kurniawati, I., Ratri, A. D. P., dan Gunawan, T., 2020, "Karakteristik Gempa Bumi di Sesar Matano Menggunakan Analisis Energi Kumulatif dan Periode Ulang", *Jurnal Gecelebes*, Vol. 4(1), hal. 33-40. <https://doi.org/10.20956/gecelebes.v4i1.8919>.
- Lukman, M. N., Lamaliwa, K. A., Husein, S., Setianto, A., Samodra, S. B., dan Surjono, S. S., 2016, "Understanding Matano Fault, Southeast Arm of Sulawesi, Indonesia", *Proceedings Geosea XIV Congress & 45th IAGI Annual Convention*, (October).
- Malinowski, M. dan Kwiecień, J., 2016, "A Comparative Study of Precise Point Positioning (PPP) Accuracy using Online Services", *Reports on Geodesy and Geoinformatics*, Vol. 102(1), hal. 15–31. <https://doi.org/10.1515/rgg-2016-0025>.
- Meilano, I., Abidin, H. Z., Andreas, H., Gumilar, I., Sarsito, D., Hanifa, R., Rino, Harjono, H., Kato, T., Kimata, F., dan F. Yoichi, 2012, "Slip Rate Estimation of

- the Lembang Fault West Java from Geodetic Observation", *Journal of Disaster Research*, Vol. 7(1), hal. 12–18. <https://doi.org/10.20965/jdr.2012.p0012>.
- Müller, A. C., dan Guido, S., 2017, *Introduction to Machine Learning with Python*. O'Reilly Media, Inc. <https://doi.org/10.2174/97898151244221230101>.
- Patria, A., Natawidjaja, D. H., Daryono, M. R., Hanif, M., Puji, A. R., dan Tsutsumi, H., 2023, "Tectonic Landform and Paleoseismic Events of the Easternmost Matano Fault in Sulawesi, Indonesia", *Tectonophysics*, Vol. 852(2023), hal. 1-16. <https://doi.org/10.1016/j.tecto.2023.229762>.
- Patria, A. dan Putra, P. S., 2020, "Development of the Palu–Koro Fault in NW Palu Valley, Indonesia", *Geoscience Letters*, 7(1), 1–11. <https://doi.org/10.1186/s40562-020-0150-2>.
- Pikridas, C., Bitharis, S., Fotiou, A., Rassikopoulos, D., Katsouginnopoulos, S., Spanakaki, K., dan Karlos, I., 2016, "Monitoring Seismic Displacement using GNSS Data with PPP Method", *Bulletin of the Geological Society of Greece*, Vol. 50(2016), hal. 656–664.
- Pilario, K. E. S., Cao, Y., dan Shafiee, M., 2021, "A Kernel Design Approach to Improve Kernel Subspace Identification", *IEEE Transactions on Industrial Electronics*, Vol. 68(7), hal. 6171–6180. <https://doi.org/10.1109/TIE.2020.2996142>.
- Pusat Studi Gempa Nasional, 2017, Peta Sumber dan Bahaya Gempa Indonesia Tahun 2017. Bandung: Pusat Penelitian dan Pengembangan Perumahan dan Pemukiman Badan Penelitian dan Pengembangan Kementerian Pekerjaan Umum dan Perumahan Rakyat. ISBN : 978-602-5489-01-3.
- Savage, J. C., 1983, "A Dislocation Model of Strain Accumulation and Release at a Subduction Zone", *Journal of Geophysical Research*, Vol. 88(B6), hal. 4984–4996. <https://doi.org/10.1029/JB088iB06p04984>.
- Smith-Konter, B. R., Sandwell, D. T., dan Shearer, P., 2011, "Locking Depths Estimated from Geodesy and Seismology", *Journal of Geophysical Research*, Vol. 116, hal. 1-12. doi:10.1029/2010JB008117.
- Swiatlowski, J. L., 2020, "Understanding Fault Creep from the Macroscopic to the Microscopic Scale", Disertasi, University of California Riverside.
- Watkinson, I. M. dan Hall, R., 2017, "Fault Systems of the Eastern Indonesian Triple

- Junction: Evaluation of Quaternary Activity and Implications for Seismic Hazards", *Geological Society Special Publication*, Vol. 441(1), hal. 71–120. <https://doi.org/10.1144/SP441.8>.
- Widjajanti, N., Sutanta, H., Lestari, D., dan Yulaikhah, 2017, *Diktat Kuliah Statistik dan Teori Kesalahan*, Universitas Gadjah Mada.
- Woodgate, P., Coppa, I., Choy, S., Phinn, S., Arnold, L., dan Duckham, M., 2017, "The Australian Approach to Geospatial Capabilities; Positioning, Earth Observation, Infrastructure and Analytics: Issues, Trends And Perspectives", *Geo-Spatial Information Science*, Vol. 20(2), hal. 109–125. <https://doi.org/10.1080/10095020.2017.1325612>.
- Xu, C. H., Wang, J. L., Gao, J. X., Wang, J., dan Hu, H., 2011, Precise Point Positioning and its Application in Mining Deformation Monitoring", *Transactions of Nonferrous Metals Society of China (English Edition)*, 21(SUPPL. 3), s499–s505. [https://doi.org/10.1016/S1003-6326\(12\)61632-X](https://doi.org/10.1016/S1003-6326(12)61632-X).
- Zakaria, Z., dan Sidarto, 2015, "Aktifitas Tektonik di Sulawesi dan Sekitarnya Sejak Mesozoikum Hingga Kini Sebagai Akibat Interaksi Aktifitas Tektonik Lempeng Tektonik Utama di Sekitarnya", *Jurnal Geologi dan Sumberdaya Mineral*, Vol. 16(3), hal. 115–127.