

## DAFTAR PUSTAKA

- Alif, S. M., Ching, K. E., Sagiya, T., & Wahyuni, W. N. (2024). Determination of Euler pole parameters for Sundaland plate based on updated GNSS observations in Sumatra, Indonesia. *Geoscience Letters*, *11*(1), 16.
- Altamimi, Z., Collilieux, X., & Métivier, L. (2013). ITRF combination: Theoretical and practical consideration and lesson from ITRF 2008. *Springer: Reference frames for applications in geosciences*, *13*, 13–28.
- 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>
- Andreas, H., Abidin, H. Z., Sarsito, D. A., & Pradipta, D. (2018a). Insight analysis on dyke protection against land subsidence and the sea level rise around northern coast of Java (Pantura) Indonesia. *Geoplanning: Journal of Geomatics and Planning*, *5*(1), 101–114. <https://doi.org/10.14710/geoplanning.5.1.101-114>
- Andreas, H., Abidin, H. Z., Pradipta, D., Sarsito, D. A., & Gumilar, I. (2018b). Insight on the subsidence impact to infrastructures in Jakarta and Semarang area: Key for adaptation and mitigation. *MATEC Web of Conferences*, *147*, Article 08001. <https://doi.org/10.1051/mateconf/201814708001>
- Andreas, H., Zainal Abidin, H., Anggreni Sarsito, D., Meilano, I., & Susilo. (2019). Investigating the tectonic influence to the anthropogenic subsidence along northern coast of Java Island, Indonesia using GNSS data sets. *E3S Web of Conferences*, *94*, Article 04005. <https://doi.org/10.1051/e3sconf/20199404005>
- Artini, S. R. (2018). Pendefinisian ulang nilai koordinat dan kecepatan pergerakan station aktif GNSS CORS GMU1. *Pilar*, *13*(2), 6–11.
- Bekaert, D. P. S., Walters, R. J., Wright, T. J., Hooper, A. J., & Parker, D. J. (2015). Statistical comparison of InSAR tropospheric correction techniques. *Remote Sensing of Environment*, *170*, 40–47.

- Bukhori, I. Y., & Handoko, E. Y. (2012). Model estimasi uplift dan subsidence dari hasil ukuran GPS menggunakan metode polinomial di area Lumpur Sidoarjo. *Geoid*, 7(2), 111–119. <https://doi.org/10.12962/j24423998.v7i2.7351>
- Chen, Y., Zhang, G., Ding, X., & Li, Z. (2000). Monitoring earth surface deformations with InSAR technology: Principles and some critical issues. *Journal of Geospatial Engineering*, 2, 3–21.
- Cuevas-González, M., Crosetto, M., Monserrat, O., & Crippa, B. (2018). Sentinel-1A/B imagery for terrain deformation monitoring: A strategy for atmospheric phase screening (APS) estimation. *Procedia Computer Science*, 138, 388–392. <https://doi.org/10.1016/j.procs.2018.10.055>
- Damen, M. C. J., & Sutanta, H. (2003). Assessment of the impact of land subsidence, sea level rise and coastal change in the city of Semarang, Java, Indonesia. *Proceedings of the FIG e-Working Week 2021. Virtual Conference, 21–25 June 2021*.
- El-Rabbany, A. (2002). *Introduction to GPS: The Global Positioning System*. Artech House.
- Ferretti, A., Monti-Guarnieri, A., Prati, C., Rocca, F., & Massonet, D. (2007). *InSAR principles—guidelines for SAR interferometry processing and interpretation* (Vol. 19). Artech House.
- Ghilani, C. D. (2010). *Adjustment computations: Spatial data analysis* (5th ed., Vol. 21, Issue 1). John Wiley & Sons.
- Giorgini, E., Orellana, F., Arratia, C., Tavasci, L., Montalva, G., Moreno, M., & Gandolfi, S. (2023). InSAR monitoring using persistent scatterer interferometry (PSI) and small baseline subset (SBAS) techniques for ground deformation measurement in metropolitan area of Concepción, Chile. *Remote Sensing*, 15(24), 5700. <https://doi.org/10.3390/rs15245700>
- Gu, G., & Wang, W. (2013). Advantages of GNSS in monitoring crustal deformation for detection of precursors to strong earthquakes. *Positioning*, 4(1), 11–19. <https://doi.org/10.4236/pos.2013.41003>

- Hanssen, R. F. (2001). *Radar interferometry: Data interpretation and error analysis*. Springer Netherlands.
- Herring, M. P. (2018). Introduction to GAMIT/GLOBK. *Medicine & Science in Sports & Exercise*, 50(5S), 249. <https://doi.org/10.1249/01.mss.0000535906.56541.71>
- Herring, T. A., King, R. W., & McClusky, S. C. (2010). Introduction to GAMIT/GLOBK. *Introduction to GAMIT/GLOBK. Massachusetts Institute of Technology*
- Hooper, A., Bekaert, D., Spaans, K., & Arkan, M. (2012). Recent advances in SAR interferometry time series analysis for measuring crustal deformation. *Tectonophysics*, 514, 1-13.
- Hwang, C., Hsiao, Y., & Shih, H. (2006). Data Reduction in Scalar Airborne Gravimetry: Theory, Software and Case Study in Taiwan. *Computers and Geoscience, December*. <https://doi.org/10.1016/j.cageo.2006.02.015>
- Jekeli, C. (2006). *Geometric Reference Systems in Geodesy*. <https://doi.org/10.1007/978-3-319-49941-3>
- Kaplan, E. & Hegarty, C. (2017) *Understanding GPS/GNSS: Principles and Applications*. 3rd Edition, Artech House Publishers, London.
- Khairi, A., Awaluddin, M., & Sudarsono, B. (2020). Analisis Deformasi Seismik Sesar Matano Menggunakan GNSS dan Interferometrik SAR. *Jurnal Geodesi Undip*, 9(2), 32–42. <https://doi.org/10.14710/jgundip.2020.27163>
- King, R. W., & Bock, Y. (2002). Documentation for the GAMIT GPS Analysis Software. *October, February*.
- Kuang, S. (1996). *Geodetic Network Analysis and Optimal Design: Concepts and Applications*. Ann Arbor Press.
- Kushardono, D., & Arief, R. (2020). Pemanfaatan Data Satelit Radar untuk Wilayah Darat di Indonesia: Peluang dan Tantangan. *LIPi Press*.

- Kusman, A. 2008. Studi Deformasi Gunung Api Batur Dengan Menggunakan Teknologi SAR Interferometri (InSAR). *Teknik Geodesi dan Geomatika, Fakultas Ilmu dan Teknologi Kebumihan, Institut Teknologi Bandung*.
- Lazecký, M., Spaans, K., González, P. J., Maghsoudi, Y., Morishita, Y., Albino, F., Elliott, J., Greenall, N., Hatton, E., Hooper, A., Juncu, D., McDougall, A., Walters, R. J., Watson, C. S., Weiss, J. R., & Wright, T. J. (2020). LiCSAR: An automatic InSAR tool for measuring and monitoring tectonic and volcanic activity. *Remote Sensing*, 12(15). <https://doi.org/10.3390/RS12152430> .
- Lanari, R., Casu, F., Manzo, M., Zeni, G., Berardino, P., Manunta, M., & Pepe, A. (2007). An Overview of the Small *Baseline* Subset Algorithm: a DInSAR Technique for Surface Deformation Analysis. *Pure and Applied Geophysics*, 164(4), 637–661. <https://doi.org/10.1007/s00024-007-0192-9>
- Leick, A. (2004). *GPS Satellite Surveying*. in *Surveying* (3rd Edition). (3rd ed.). John Wiley & Sons.
- Leick, A., Rapoport, L., & Tatarnikov, D. (2015). *GPS Satellite Surveying*. John Wiley & Sons, Inc. <https://doi.org/10.1002/9781119018612>
- Lestari, D. (2006). GPS Study for Resolving the Stability of Borobudur Temple Site. Thesis. *School of Surveying and Spatial Information System. University of New South Wales*.
- Li, Y. (2021). Analysis of GAMIT/GLOBK in High-Precision GNSS Data Processing for Crustal Deformation. *KeAi*, 1(3), 100028–100028. <https://doi.org/10.1016/j.eqrea.2021.100028>
- Massonnet, D., & Feigl, K. L. (1998). Radar Interferometry and Its Application to Changes in The Earth's Surface. *Reviews of Geophysics*, 36(4), 441–500. <https://doi.org/10.1029/97RG03139>
- Monserrat, O., Crosetto, M., & Luzi, G. (2014). A Review of Ground-Based SAR Interferometry For Deformation Measurement. *ISPRS Journal of Photogrammetry and Remote Sensing*, 93, 40–48. <https://doi.org/10.1016/j.isprsjprs.2014.04.001>

- Morishita, Y., Lazecky, M., Wright, T. J., Weiss, J. R., Elliott, J. R., & Hooper, A. (2020). LiCSBAS: An Open-source InSAR Time Series Analysis Package Integrated with the Licsar Automated Sentinel-1 InSAR Processor. *Remote Sensing*, *12*(3), 5–8. <https://doi.org/10.3390/rs12030424>.
- Moreira, A., Prats-Iraola, P., Younis, M., Krieger, G., Hajnsek, I., & Papathanassiou, K. P. (2013). A tutorial on synthetic aperture radar. *IEEE Geoscience and Remote Sensing Magazine*, *1*(1), 6-43.
- Mous, Veen, B. van, Oost, R., Rizka Akmalia, Dam, R., Wiwandari Handayani, Essink, G. O., & Philip. (2024). Explaining Land Subsidence Variation Along The North Coast Of Java for Semarang and Pekalongan, Indonesia. *Eartharxiv.org*; *EarthArXiv*. <https://eartharxiv.org/repository/view/6908/>
- Nugroho, K. F. (2019). Analysis of Sangehe Islands Movements Derived from Recent GPS Observation. *JGISE: Journal of Geospatial Information Science and Engineering*, *2*(2). <https://doi.org/10.22146/jgise.51146>
- Odiik, D. (2017). Positioning Model. *Springer EBooks*, 605–638. [https://doi.org/10.1007/978-3-319-42928-1\\_21](https://doi.org/10.1007/978-3-319-42928-1_21)
- Panuntun, H. (2012). Pengaruh Penggunaan Titik Ikat GPS untuk Penentuan Posisi Offshore Platform. Gadjah Mada, Yogyakarta
- Panuntun, H., Heliani, L. S., Suryanto, W., & Pratama, C. (2022). Importance of Tropospheric Correction to C-band InSAR Measurements: Application in the 2018 Palu Earthquake. *Indonesian Journal of Geography*, *54*(3), 352–358. <https://doi.org/10.22146/IJG.68984>.
- Parker, A. L. (2016). *InSAR Observations of Ground Deformation: Application to the Cascades Volcanic Arc*. Springer.
- Prasetyo, Y., & Subiyanto, S. (2014). Studi Penurunan Muka Tanah (Land Subsidence) Menggunakan Metode Permanent Scatterer Interferometric Synthetic Aperture Radar (Ps-Insar) Di Kawasan Kota Cimahi - Jawa Barat. *Teknik*, *35*(2). <https://doi.org/10.14710/teknik.v35i2.7184>

- Pribadi, A. A. (2020). Analisis Pergerakan Sekuler Lempeng Kepulauan Sangihe Berdasarkan Data Pengamatan CORS dan Pengukuran GNSS pada Epoch 2015 hingga 2019. Skripsi. Universitas Gadjah Mada.
- Purba, R. S., Awaluddin, M., & Yuwono, B. D. (2017). Analisis Deformasi di Wilayah Jawa Timur dengan Menggunakan CORS BIG. *Jurnal Geodesi Undip*, 6(4), 422-432.
- Restiana, R., Fadly, R., & Rahmadi, E. (2021). Pendefinisian Koordinat Ulp2 Universitas Lampung Terhadap Itrf 2014 Menggunakan Titik Ikat Igs dan Cors Badan Informasi Geospasial. *Journal of Geodesy and Geomatics*, 1(1), 28-38.
- Richards, M. A. (2022). *Fundamentals of Radar Signal Processing, Third Edition*. McGraw Hill.
- Sarah, D., & Soebowo, E. (2018). Land Subsidence Threats and Its Management in The North Coast Of Java. *IOP Conference Series: Earth and Environmental Science*, 118, 012042. <https://doi.org/10.1088/1755-1315/118/1/012042>
- Sari, A.R. 2014. Metode Differential Interferometry Synthetic Aperture Radar (DInSAR) untuk Analisa Deformasi Di Daerah Rawan Bencana Gempa Bumi (Studi Kasus : Kepulauan Mentawai, Sumatra Barat). *Institut Teknologi Sepuluh Nopember*.
- Sarsito, D. A., None Susilo, Simons, F., Abidin, H. Z., B. Sapiie, W. Triyoso, & Andreas, H. (2017). Rotation and Strain Rate of Sulawesi from Geometrical Velocity Field. *AIP Conference Proceedings*. <https://doi.org/10.1063/1.4987070>
- Sidiq, T. P., Gumilar, I., Meilano, I., Abidin, H. Z., Andreas, H., & Permana, A. (2021). Land Subsidence of Java North Coast Observed by SAR Interferometry. *IOP Conference Series: Earth and Environmental Science*, 873(1), 012078. <https://doi.org/10.1088/1755-1315/873/1/012078>
- Simons, M., & Rosen, P. A. (2015). Interferometric Synthetic Aperture Radar Geodesy. *Treatise on Geophysics*, 3, 339-385.
- Sistem Referensi Geospasial Indonesia*. (2021). <https://srgi.big.go.id/page/jaring-kontrol-geodesi>

- Sitaningrum, A., & Widjajanti, N. (2024). Pergerakan Vertikal Titik GNSS CORS Pantai Utara Jawa Tengah dan Sekitarnya Tahun 2021-2023 Menggunakan Pengolahan Metode Precise Point Positioning (PPP). *JGISE Journal of Geospatial Information Science and Engineering*, 7(1), 44–44. <https://doi.org/10.22146/jgise.95957>
- Susilo, I. M., Abidin, H. Z., & Sapiie, B. (2015). A New Definition of Sunda Block Rotation Model. *Joint Convention Balikpapan 2015 HAGI-IAGI-IAFMI-IATMI*.
- Susilo, S., Salman, R., Wawan Hermawan, Risna Widyaningrum, Wibowo, S. T., Yustisi Lumban-Gaol, Irwan Meilano, & Yun, S. (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>
- Teunissen, P. J. G., & Montenbruck, O. (2017). Global Navigation Satellite Systems. *Springer International Publishing : International Ocean Systems*, 18, 6. <https://doi.org/10.4324/9781315610139-12>
- Ulma, T. (2021). Analisis Deformasi Kota Surabaya di Wilayah Sekitar Sesar Kendeng dengan Metode Ps-Insar. *Jurnal Geosaintek*, 7(2), 55. <https://doi.org/10.12962/j25023659.v7i2.8582>
- Whittaker D.N, and Reddish D.J, (1989), Subsidence Occurence, Prediction and Control. *Elsevier*, 56, 359-376
- Widada, S., Zainuri, M., Yulianto, G., Satriadi, A., & Wijaya, Y. (2020). Estimation of Land Subsidence Using Sentinel Image Analysis and Its Relation to Subsurface Lithology Based on Resistivity Data in the Coastal Area of Semarang City, Indonesia. *Journal of Ecological Engineering*, 21(8), 47–56. <https://doi.org/10.12911/22998993/127394>
- Wolf, P. R., & Ghilani, C. D. (2006). *Adjustment Computations: Spatial Data Analysis*. John Wiley & Sons.
- Woodgate, P., Coppa, I., Choy, S., Phinn, S., Arnold, L., & Duckham, M. (2017). The Australian Approach To Geospatial Capabilities; Positioning, Earth Observation, Infrastructure And Analytics: Issues, Trends And Perspectives. *Geo-Spatial*

*Information Science*, 20(2), 109–125.  
<https://doi.org/10.1080/10095020.2017.1325612>

Yague-Martinez, N., Prats-Iraola, P., Gonzalez, F. R., Brcic, R., Shau, R., Geudtner, D., Eineder, M., & Bamler, R. (2016). Interferometric Processing of Sentinel-1 TOPS Data. *IEEE Transactions on Geoscience and Remote Sensing*, 54(4), 2220–2234.  
<https://doi.org/10.1109/TGRS.2015.2497902>.

[Yu, C. \(2019\). Generic Interferometric Synthetic Aperture Radar Atmospheric Correction Model and Its Application to Co- and Post-Seismic Motions. \*Journal of Global Positioning Systems\*, 17\(2\), 237-239.](https://doi.org/10.1109/TGRS.2015.2497902)  
<https://api.core.ac.uk/oai/oai:theses.ncl.ac.uk:10443/4636>.

Yulaikhah, Y., Pramumijoyo, S., & Widjajanti, N. (2018). Correlation of GNSS Observation Data Quality Resulted from TEQC Checking and Coordinate's Precision. *JGISE: Journal of Geospatial Information Science and Engineering*, 1(1).

Yusiyanti, I. (2022). Analysis Of Vertical Deformation Model On Postseismic Phase Due To The Palu Earthquake 2018 Using Exponential And Logarithmic Functions Based On Sentinel-1 Image Data [Universitas Gadjah Mada].  
<https://etd.repository.ugm.ac.id>

Yuwono, B., Awaluddin, M., & ., N. (2019). Land Subsidence monitoring 2016 - 2018 analysis using GNSS CORS UDIP and DinSAR in Semarang. *KnE Engineering*, 4(3), 95–105. <https://doi.org/10.18502/keg.v4i3.5832>

Zebker, H. A., & Villasenor, J. (1992). Decorrelation in interferometric radar echoes. *IEEE Transactions on Geoscience and Remote Sensing*, 30(5), 950-959.

Zwieback, S., Liu, X., Antonova, S., Heim, B., Bartsch, A., Boike, J., & Hajnsek, I. (2016). A statistical test of phase consistency for quantifying temporal decorrelation in SAR interferometry. *Remote Sensing Letters*, 7(1), 51-60.