

## DAFTAR PUSTAKA

- 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. *Indones. J. Geosci.* 4. <https://doi.org/10.17014/ijog.v4i4.87>
- Agustina, S., 2016. Potensi Likuifaksi dan Prediksi Penurunan Tanah Setelah Gempa di Kota Yogyakarta dan Kabupaten Bantul. Universitas Gadjah Mada.
- Allen, A.S., 1984. Types of land subsidence, in: *Guidebook to studies of land subsidence due to ground-water withdrawal*. hal. 133–142.
- Antoni, Suidiana, D., 2015. Pemetaan Deformasi Permukaan Tanah Menggunakan Metode PSInSAR pada Citra ALOS-PALSAR di Wilayah Bandung. *J. FT Univ. Indones.*
- Aronoff, S., 2005. *Remote Sensing for GIS Manager*. ESRI Press, California.
- Asquith, A.C., 1996. A Biostratigraphic test of the “Earthquake Deformation Cycle” at the Salmon river. University of Southampton.
- Attema, E., Levrini, G., Davidson, M., 2008. SENTINEL-1 ESA’s New European Radar Observatory. *Futur. Remote Sens.*, Second Int. Work. VITO ISPRS Inter-Comm. Work. Gr. I/V Auton. Navig. 2–4. <https://doi.org/10.1007/s00109-009-0464-1>
- Aydın, C., 2014. Geodetic Deformatioan. YTU-Geodesy Div. YTU.
- Azkiya, J.N., 2014. Studi Perbandingan Dua Algoritma Phase Unwrapping (Region Growing Dan Minimum Cost Flow) pada Teknik Interferometric Synthetic Aperture Radar (InSAR) dalam Menghasilkan Digital Surface Model (DSM). Universitas Gadjah Mada.
- Badan Geologi, 2018. Di Balik Pesona Palu. Badan Geologi, Kementrian Energi dan Sumber Daya Mineral, Bandung.
- Bakker, W.H., Feringa, W., Gieske, A.S.M., Gorte, B.G.H., Grabmaier, K.A., Hecker, C.A., Horn, J.A., Huurneman, G.C., Janssen, L.L.F., Kerle, N., Meer, F.D. Van Der, Parodi, G.N., Pohl, C., Reeves, C. V, Ruitenbeek, F.J. Van, Schetselaar, E.M., Tempfli, K., Weir, M.J.C., Westinga, E., Woldai, T., 2001. *Principles of Remote Sensing*. The International Institute for Geo-Information Science and Earth Observation, Enschede, Netherlands.
- Bakon, M., Papco, J., Perissin, D., Sousa, J.J., Lazecky, M., 2016. Multi-Sensor InSAR deformation monitoring over urban area of Bratislava (Slovakia). *Procedia Comput. Sci.* 100, 1127–1134. <https://doi.org/10.1016/j.procs.2016.09.265>
- Balbarani, S., Euillades, P., Euillades, E., Casu, F., Riveros, N., 2012. Analysis of ground deformation using HH and VV polarized SAR data of Cosmo SkyMed : a case study of city of Mendoza , Argentina .
- Blasco, J., Fomelis, M., Stewart, C., Hooper, A., 2019. Measuring Urban Subsidence in the Rome Metropolitan Area ( Italy ) with Sentinel-1 SNAP-StaMPS Persistent

- Scatterer Interferometry. *Remote Sens.* 1–17. <https://doi.org/10.3390/rs11020129>
- BMKG, 2018a. Ulasan Guncangan Tanah Akibat Gempabumi Donggala 28 September 2018. Badan Meteorologi Klimatologi dan Geofisika, Jakarta.
- BMKG, 2018b. Katalog Gempabumi Signifikan dan Merusak 1821-2017, Pusat Gempa Bumi dan Tsunami. Badan Meteorologi Klimatologi dan Geofisika, Jakarta.
- Bormann, P., Saul, J., 2004. Earthquake Magnitude, in: *Earthquake Magnitude*. hal. 2473–2496. [https://doi.org/10.1007/978-1-4419-7695-6\\_17](https://doi.org/10.1007/978-1-4419-7695-6_17)
- Chang, C.P., Yen, J.Y., Hooper, A., Chou, F.M., Chen, Y.A., Hou, C.S., Hung, W.C., Lin, M.S., 2010. Monitoring of surface deformation in Northern Taiwan using DInSAR and PSInSAR techniques. *Terr. Atmos. Ocean. Sci.* 21, 447–461. [https://doi.org/10.3319/TAO.2009.11.20.01\(TH\)](https://doi.org/10.3319/TAO.2009.11.20.01(TH))
- Christy, Y.A., 2018. Kaitan Penurunan Muka Tanah dari Citra Sentinel-1A dan Muka Air Tanah di Kota Semarang Tahun 2016-2017. Universitas Gadjah Mada.
- Clague, J., Hutchinson, I., Lopez, G., 1999. Geologic Evidence for Great Earthquakes on The West Coast of Canada. *rese.* <https://doi.org/235623743>
- Crosetto, M., Monserrat, O., Barra, A., Crippa, B., 2016. Persistent Scatterer Interferometry Using Sentinel-1 Data XLI, 835–839. <https://doi.org/10.5194/isprsarchives-XLI-B7-835-2016>
- Delgado, M., Fomelis, M., Stewart, C., Hooper, A., 2019. Measuring Urban Subsidence in the Rome Metropolitan Area ( Italy ) with Sentinel-1 SNAP-StaMPS Persistent Scatterer Interferometry 1–17. <https://doi.org/10.3390/rs11020129>
- Devanthery, N., Crosetto, M., Cuevas-González, M., Monserrat, O., Barra, A., Crippa, B., 2016. Deformation Monitoring Using Persistent Scatterer Interferometry and Sentinel-1 SAR Data. *Procedia Comput. Sci.* 100, 1121–1126. <https://doi.org/10.1016/j.procs.2016.09.263>
- Devanthery, N., Crosetto, M., Monserrat, O., Cuevas-gonzález, M., 2018. Deformation Monitoring Using Sentinel-1 SAR Data † 1, 1–5. <https://doi.org/10.3390/ecrs-2-05157>
- ESA, 2012. SENTINEL-1 ESA’s radar observatory mission for GMES operational services, ESA Special Publication. <https://doi.org/10.1016/j.rse.2011.11.026>
- Fatma, zealandia sarah nurul, 2018. Monitoring deformasi gunung semeru tahun 2014 dan 2015 menggunakan metode in-sar dan sentinel-1a/1b. Universitas Gadjah mada.
- Ferretti, A., Monti-guarnieri, A., Prati, C., Rocca, F., 2007. InSAR Principles (part A): Guidelines for SAR Interferometry Processing and Interpretation (TM-19, February 2007). *Insa. Princ.* 71. <https://doi.org/10.1145/2541016.2541057>
- Ferretti, A., Prati, C., Rocca, F., 2001. Permanent Scatterers in SAR Interferometry. *IEEE Trans. Geosci. Remote Sens.* 39, 8–20.
- Ferretti, A., Prati, C., Rocca, F., Politecnico, I., 1999. Permanent scatterers in SAR

- interferometry. IEEE 1528–1530. <https://doi.org/07803-5207-6>
- Filippazzo, G., Tassa, A., 2014. ESA activities for Copernicus with focus on Sentinel-1. European Space Agency, Ceko.
- Foumelis, M., Manuel, J., Blasco, D., Desnos, Y., Engdahl, M., Fernández, D., Veci, L., Lu, J., Wong, C., 2018. ESA SNAP – StaMPS Integrated Processing for Sentinel-1 Persistent Scatterer Interferometry. <https://doi.org/10.13140/RG.2.2.25803.90405>
- Francis, P.W., Wadge, G., Mougini-mark, P.J., 1996. Satellite Monitoring of Volcanoes. Springer-Verlag, Berlin Heidelberg.
- Gay, M., 2011. Differential Interferometry Synthetic Aperture Radar (DInSAR), WP6 Permafrost and Natural Hazards. Prancis.
- Gumilar, I., Abidin, H.Z., Hutasoit, L.M., Hakim, D.M., Sarsito, D.A., 2012. Studi Pemantauan Penurunan Muka Tanah di Cekungan Bandung dengan Metode Survei GPS dan InSAR Penurunan muka tanah merupakan fenomena yang sering terjadi di kota-kota. Indones. J. Geospatial Vol. 1, 44–53.
- Hooper, A., Bekaert, D., Spaans, K., Ar, M., 2012. Tectonophysics Recent advances in SAR interferometry time series analysis for measuring crustal deformation 517, 1–13. <https://doi.org/10.1016/j.tecto.2011.10.013>
- Hooper, A., Segall, P., Zebker, H., 2007. Persistent scatterer interferometric synthetic aperture radar for crustal deformation analysis , with application to Volca ´ n Alcedo , Gala ´ pagos 112, 1–21. <https://doi.org/10.1029/2006JB004763>
- Hooper, A.J., Segall, P., Zebker, H.A., 2006. Persistent scatter radar interferometry for crustal deformation studies and modeling of volcanic deformation. Dep. Geophys. PHD, 124. [https://doi.org/10.1175/1520-0493\(1997\)](https://doi.org/10.1175/1520-0493(1997))
- Kagawa, A., Furuno, K., Kusuda, T., Sakai, Y., Yoshida, T., Kazaoka, O., 2015. Liquefaction-fluidization induced land subsidence: Impact of the 2011 Tohoku earthquake on reclaimed land around Tokyo bay area, Japan. Proc. Int. Assoc. Hydrol. Sci. 372, 217–220. <https://doi.org/10.5194/piahs-372-217-2015>
- Kampes, B.M., 2005. Displacement Parameter Estimation using Permanent Scatterer Interferometry. Delft University of Technology, Belanda.
- Karamvassil, K., Karathanassi, V., Subsidence, L., Environments, C., Island, L., 2017. Deformation Effects of Dams on Coastal Regions Using Sentinel-1 IW Tops Time Series : The West Lesvos , Greece Case. Int. Arch. Photogramm. Remote Sens. Spat. Inf. Sci. XLII, 8–12. <https://doi.org/https://doi.org/10.5194/isprs-archives-XLII-3-W2-91-2017>
- Karout, S., 2007. Two-Dimensional Phase Unwrapping. Liverpool John Moores University, Inggris.
- Korkouli, P., Wegmuller, Wiesman, A., Thasey, K., 2017. Earth Observation of land and emergency monitoring. Wiley and Sons, Chichester.
- Kusman, A., 2008. Studi Deformasi Gunung Api Batur dengan Mnegggunakan Teknologi Interferometry (InSAR) 2008.

- Lillesand, T.M., Kiefer, R.W., 1990. Penginderaan Jauh dan Interpretasi Citra. Gadjah Mada University Press, Yogyakarta.
- Marjiyono, K. dan S., 2013. Struktur Geologi Bawah Permukaan Dangkal Berdasarkan Interpretasi Data Geolistrik, Studi kasus Sesar Palu Koro. JSD. Geol 23, 39–45.
- Mohan, S., 2015. Potentials and applications of Microwave remote sensing.
- Muja, R., 2012. Multidimensional Very High Resolution SAR Signal Processing for Monitoring Energetic Structures. Institut polytechnique de Grenoble, Prancis.
- Ng, A.H., Ge, L., Li, X., Zhang, K., 2011. Monitoring ground deformation in Beijing, China with Persistent Scatterer SAR Interferometry. Geod. Earth Obs. Syst. Gr. 1–34.
- Pasquali, P., Cantone, A., Defilippi, M., 2012. Quantitative comparison of methods and sensors for monitoring land subsidence based on SAR interferometric stacking Quantitative comparison of methods and sensors for monitoring land subsidence based on SAR interferometric stacking. Japan Geosci. Union Meet. 2012 29–30. <https://doi.org/265200676>
- Peyret, M., Dominguez, S., Cattin, R., Champenois, J., Leroy, M., Zajac, A., 2011. Present-day interseismic surface deformation along the Longitudinal Valley, eastern Taiwan, from a PS-InSAR analysis of the ERS satellite archives. J. Geophys. Res. Solid Earth 116, 1–21. <https://doi.org/10.1029/2010JB007898>
- Potin, P., Rosich, B., Schmuck, S., 2013. Sentinel-1 Mission Operations Concept Sentinel – 1 : C-band SAR mission. Tromsd, Norwegia.
- Snoei, P., Geudtner, D., Torres, R., Davidson, M., Bibby, D., Lokas, S., 2011. GMES Sentinel-1 System Overview Sentinel-1 Mission Objectives and.
- Socquet, A., Simons, W., Vigny, C., McCaffrey, R., Subarya, C., Sarsito, D., Ambrosius, B., Spakman, W., 2006. Microblock rotations and fault coupling in SE Asia triple junction (Sulawesi, Indonesia) from GPS and earthquake slip vector data. J. Geophys. Res. Solid Earth 111. <https://doi.org/10.1029/2005JB003963>
- Soputan, A.F., 2012. Struktur Geologi Sulawesi. Perpustakaan Sains Kebumihan, Bandung.
- Sousa, J.J., Ruiz, A.M., Bakoň, M., Lazecky, M., Hlaváčová, I., Patrício, G., Delgado, J.M., Perissin, D., 2016. Potential of C-Band SAR Interferometry for Dam Monitoring. Procedia Comput. Sci. 100, 1103–1114. <https://doi.org/10.1016/j.procs.2016.09.258>
- Strozzi, T., Tosi, L., Wegmüller, U., Werner, C., Teatini, P., Carbognin, L., 2003. Land Subsidence Monitoring Service in the Lagoon of Venice. Geophys. Res. Lett. 00, 2–4.
- Sumantyo, J.T.S., Shimada, M., Phillippe, P., Abidin, H.Z., 2009. Long Term Continuously DInSAR for Volume Change Estimation of Land Deformation. Eur. Sp. Agency C.
- Tandirerung, R., 2017. Kajian Potensi Likuifaksi di Daerah Pantai Pandansimo,

- Bantul, Daerah Istimewa Yogyakarta. Tidak diterbitkan. Universitas Gadjah Mada.
- Van Leeuwen, T.M., Muhardjo, 2005. Stratigraphy and tectonic setting of the Cretaceous and Paleogene volcanic-sedimentary successions in northwest Sulawesi, Indonesia: Implications for the Cenozoic evolution of Western and Northern Sulawesi. *J. Asian Earth Sci.* 25, 481–511. <https://doi.org/10.1016/j.jseaes.2004.05.004>
- Zalite, K., Voormansik, K., 2016. Differential and Persistent Scatterer SAR Interferometry 1–19.