DAFTAR PUSTAKA

Aditiya, A., Aoki, Y., & Anugrah, R. D. (2018). Surface Deformation Monitoring of Sinabung Volcano Using Multi Temporal Insar Method and GIS Analysis For Affected Area Assessment. *IOP Conference Series: Materials Science and Engineering*, *344*(1). https://doi.org/10.1088/1757-899X/344/1/012003

Ager, T. (2013). An Introduction to Synthetic Aperture Radar Imaging. *Oceanography*, *26*(2). https://doi.org/10.5670/oceanog.2013.28

Albino, F., Biggs, J., & Syahbana, D. K. (2019). Dyke intrusion between neighbouring arc volcanoes responsible for 2017 pre-eruptive seismic swarm at Agung. *Nature Communications*, *10*(1), 748. https://doi.org/10.1038/s41467-019-08564-9

Andaru, R., Rau, J. Y., Syahbana, D. K., & Purnamasari, H. D. (2022). Post-Eruption Lava Dome Emplacement Measured By UAV Photogrammetry: An Investigation One Year After The 2017-2019 Mt. Agung Eruptions. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, *43*(B2-2022), 517–522. https://doi.org/10.5194/isprs-archives-XLIII-B2-2022-517-2022

Andaru, R., Rau, J.-Y., Syahbana, D. K., Prayoga, A. S., & Purnamasari, H. D. (2021). The use of UAV remote sensing for observing lava dome emplacement and areas of potential lahar hazards: An example from the 2017–2019 eruption crisis at Mount Agung in Bali. *Journal of Volcanology and Geothermal Research*, *415*, 107255. https://doi.org/10.1016/j.jvolgeores.2021.107255

Anjasmara. (2013). *Deformation Study*. Teknik Geomatika ITS.

Arini, S. Y. (2019). *Pemanfaatan Citra Sentinel-1 Untuk Pemantauan Deformasi Vertikal Gunung Anak Krakatau Dengan Metode D-INSAR*. Universitas Gadjah Mada.

Beauducel, F., Briole, P., & Froger, J.-L. (2000). Volcano-wide fringes in ERS synthetic aperture radar interferograms of Etna (1992-1998): Deformation or tropospheric effect? *Journal of Geophysical Research: Solid Earth*, *105*(B7), 16391–16402. https://doi.org/10.1029/2000JB900095

Bemelmans, M. J. W., Biggs, J., Poland, M., Wookey, J., Ebmeier, S. K., Diefenbach, A. K., & Syahbana, D. (2023). High-Resolution InSAR Reveals Localized Pre-Eruptive Deformation Inside the Crater of Agung Volcano, Indonesia. *Journal*

of Geophysical Research: Solid Earth, *128*(5). https://doi.org/10.1029/2022JB025669

Braun, A., & Veci, L. (2021). *Sentinel-1 Toolbox TOPS Interferometry Tutorial*. https://skywatch.co

Carrivick, J. L., Smith, M. W., & Quincey, D. J. (2016). *Structure from Motion in the Geosciences*. Wiley. https://doi.org/10.1002/9781118895818

Cassidy, M., Ebmeier, S. K., Helo, C., Watt, S. F. L., Caudron, C., Odell, A., Spaans, K., Kristianto, P., Triastuty, H., Gunawan, H., & Castro, J. M. (2019). Explosive Eruptions With Little Warning: Experimental Petrology and Volcano Monitoring Observations From the 2014 Eruption of Kelud, Indonesia. *Geochemistry, Geophysics, Geosystems*, *20*(8), 4218–4247. https://doi.org/10.1029/2018GC008161

Chang-Wook, L., Lu, Z., Jung, H., Kwoun, O.-I., & Won, J.-S. (2008). *Surface Displacements of the St. Augustine Volcano, Alaska, measured from an DInSAR and GPS data*.

Clark, C. (1991). *Geocoding and Stereoscopy of Synthetic Aperture Radar Imagery*. University of London.

Crosetto, M., Crippa, B., Biescas, E., Vega, T., Biescas, E., Monserrat, O., Agudo, M., & Fernández, P. (2014). *Land Deformation Monitoring Using Sar Interferometry: State-Of-The-Art Geodetic Integrated Monitoring System (GIMS) View Project Land Deformation Measurement Using Sar Interferometry: State-Of-The-Art*. https://www.researchgate.net/publication/262186921

Darmawan, H., Walter, T. R., Brotopuspito, K. S., Subandriyo, & I Gusti Made Agung Nandaka. (2018). Morphological And Structural Changes At The Merapi Lava Dome Monitored In 2012–15 Using Unmanned Aerial Vehicles (UAVs). *Journal of Volcanology and Geothermal Research*, *349*, 256–267. https://doi.org/10.1016/j.jvolgeores.2017.11.006

De Beni, E., Cantarero, M., & Messina, A. (2019). UAVs For Volcano Monitoring: A New Approach Applied On An Active Lava Flow On Mt. Etna (Italy), During The 27 February–02 March 2017 Eruption. *Journal of Volcanology and Geothermal Research*, *369*, 250–262. https://doi.org/10.1016/j.jvolgeores.2018.12.001

Ducke, B. (2018). Multi-View Stereo. Dalam *The Encyclopedia of Archaeological Sciences* (hlm. 1–4). John Wiley & Sons, Inc. https://doi.org/10.1002/9781119188230.saseas0398

ESA. (t.t.). *Sentinel-1 SAR User Guide*. Diambil 4 Januari 2023, dari https://sentinel.esa.int/web/sentinel/user-guides/sentinel-1-sar

Febriyanti, R. F. (2017). *Analisis Deformasi Permukaan Gunung Raung Menggunakan Teknologi Differential Interferometry Synthetic Aperture Radar (DInSAR) Berdasarkan Erupsi 28 Juni 2015*. Institut Teknologi Sepuluh Nopember.

Ferretti, A., Monti-Guarnieri, A., Prati, C., & Rocca, F. (2007). *InSAR Principles: Guidelines for SAR Interferometry Processing and Interpretation*. ESA Publications.

Fletcher, Karen., & European Space Agency. (2012). *Sentinel-1 : ESA's Radar Observatory Mission for GMES Operational Services*. ESA Communications.

Fraser, C. S. (1997). Digital camera self-calibration. *ISPRS Journal of Photogrammetry and Remote Sensing*, *52*(4), 149–159. https://doi.org/10.1016/S0924-2716(97)00005-1

Gamma. (2008). *Geocoding and Image Registration*. GAMMA Remote Sensing AG. https://esdynamics.geo.uni-tuebingen.de/wiki/files/remote_sensing/pdf/GEO_users_guide.pdf

Gelautz, M., Frick, H., Raggam, J., Burgstaller, J., & Leberl, F. (1998). SAR image simulation and analysis of alpine terrain. *ISPRS Journal of Photogrammetry and Remote Sensing*, *53*(1), 17–38. https://doi.org/10.1016/S0924-2716(97)00028-2

Gens, R. (2006). *InSAR and Its Applications*. University of Alaska Fairbanks. https://rudigens.github.io/geos639/limiting_factors.pdf

Hanafiah Ismullah, I. (2004). Pengolahan Fasa untuk Mendapatkan Model Tinggi Permukaan Dijital (DEM) pada Radar Apertur Sintetik Interferometri (INSAR) Data Satelit. *ITB Journal of Sciences*, *36*(1), 11–32. https://doi.org/10.5614/itbj.sci.2004.36.1.2

Hanssen, R. F. (2001). *Radar Interferometry* (Vol. 2). Springer Netherlands. https://doi.org/10.1007/0-306-47633-9

Hernandez, C., & Furukawa, Y. (2013). Multi-View Stereo: A Tutorial. Dalam *Foundations and Trends in Computer Graphics and Vision* (Vol. 9, hlm. 1–148).

Hosseininaveh, A., & Nasir, K. (2014). *Photogrammetric Multi-View Stereo and Imaging Network Design Some of the authors of this publication are also working on these related projects: buildings detection and reconstruction from Lidar point cloud View project 3D Reconstruction System View project*. https://www.researchgate.net/publication/272509454

IEEE. (1984). *IEEE Standard Letter Designations for Radar-Frequency Bands*.

Janssen, V. (2007). Volcano deformation monitoring using GPS. *Journal of Spatial Science*, *52*(1), 41–54. https://doi.org/10.1080/14498596.2007.9635099

Julzarika, A., & Susanto. (2009). Pemanfaatan Interferometric Synthetic Aperture Radar (InSAR) Untuk Pemodelan 3D (DSM, DEM, dan DTM). Dalam *Majalah Sains dan Teknologi Dirgantara* (Vol. 4, Nomor Desember). http://wwwrcamnl.wr.usgs.gov,

King, H. M. (t.t.). *Mount Agung an Active and Dangerous Volcano On The Island Of Bali*. Geology and Earth Science News and Information. Diambil 15 Januari 2023, dari https://geology.com/volcanoes/agung/

KWU. (1996). *Synthetic Aperture Radar*. Kangwon National University. http://sar.kangwon.ac.kr/etc/rs_note/rsnote/cp4/cp4-3.htm

Liang, H., Xu, W., Ding, X., Zhang, L., & Wu, S. (2021). *Urban Sensing with Spaceborne Interferometric Synthetic Aperture Radar* (hlm. 345–365). https://doi.org/10.1007/978-981-15-8983-6_21

Luo, Q., Jixian, Z., & Hui, L. (2010). A Geocoding Method for Interferometric DEM in Difficult Mapping Areas. *31st Asian Conference on Remote Sensing 2010*.

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

MathWorks. (2023). *Stripmap Synthetic Aperture Radar (SAR) Image Formation*. https://ww2.mathworks.cn/help/radar/ug/stripmap-synthetic-aperture-radar-sar-image-formation.html

Mogi, K. (1958). Relations between the Eruptions of Various Volcanoes and the Deformations of the Ground Surfaces around them. *Bulletin of the Earthquake Research Institute*, *36*, 99–134.

Pacey, A., Macpherson, C. G., & McCaffrey, K. J. W. (2013). Linear Volcanic Segments In The Central Sunda Arc, Indonesia, Identified Using Hough Transform Analysis: Implications For Arc Lithosphere Control Upon Volcano Distribution. *Earth and Planetary Science Letters*, *369–370*, 24–33. https://doi.org/10.1016/j.epsl.2013.02.040

Pangasa, P. (2021). *Pemantauan Deformasi Vertikal Gunung Merapi Menggunakan Teknologi Interferometric Synthetic Aperture Radar (InSAR)*. Universitas Gadjah Mada.

Pérez-Falls, Z., Martínez-Flores, G., & Sarychikhina, O. (2022). Land Subsidence Detection in the Coastal Plain of Tabasco, Mexico Using Differential SAR Interferometry. *Land*, *11*(9), 1473. https://doi.org/10.3390/land11091473

Petillot, I., Trouve, E., Bolon, P., Julea, A., Yajing Yan, Gay, M., & Vanpe, J.-M. (2010). Radar-Coding and Geocoding Lookup Tables for the Fusion of GIS and SAR Data in Mountain Areas. *IEEE Geoscience and Remote Sensing Letters*, *7*(2), 309–313. https://doi.org/10.1109/LGRS.2009.2034118

Pinel, V., Sigmundsson, F., Sturkell, E., Geirsson, H., Einarsson, P., Gudmundsson, M. T., & Högnadóttir, T. (2007). Discriminating volcano deformation due to magma movements and variable surface loads: application to Katla subglacial volcano, Iceland. *Geophysical Journal International*, *169*(1), 325–338. https://doi.org/10.1111/j.1365-246X.2006.03267.x

PVMBG. (2014). *Gunung Agung, Bali*.

Ren, H., & Feng, X. (2020). Calculating vertical deformation using a single InSAR pair based on singular value decomposition in mining areas. *International Journal of Applied Earth Observation and Geoinformation*, *92*, 102115. https://doi.org/10.1016/j.jag.2020.102115

Rivera, A. M. M., Amelung, F., & Eco, R. (2015, Mei 1). Volcano Deformation and Modeling on Active Volcanoes in the Philippines from ALOS InSAR Time Series. *Proceedings of Fringe 2015: Advances in the Science and Applications of SAR Interferometry and Sentinel-1 InSAR Workshop*. https://doi.org/10.5270/Fringe2015.pp302

Sahara, D. P., Rahsetyo, P. P., Nugraha, A. D., Syahbana, D. K., Widiyantoro, S., Zulfakriza, Z., Ardianto, A., Baskara, A. W., Rosalia, S., Martanto, M., & Afif, H.

(2021). Use of Local Seismic Network in Analysis of Volcano-Tectonic (VT) Events Preceding the 2017 Agung Volcano Eruption (Bali, Indonesia). *Frontiers in Earth Science*, *9*. https://doi.org/10.3389/feart.2021.619801

Sandwell, D., Xu, X., Mellors, R., Wei, M., Tong, X., Tymofyeyeva, K., & DeSanto, J. (2022). *Satellite Radar Interferometry: Theory*.

Sari, A. R. (2014). *Metode Differential Interferometry Synthetic Aparture Radar (DInSAR) Untuk Analisa Deformasi di Daerah Rawan Bencana Gempa Bumi (Studi Kasus : Kepulauan Mentawai, Sumatera Barat)*. Institut Teknologi Sepuluh Nopember.

SARScape. (2009). *Synthetic Aperture Radar*. https://www.sarmap.ch/pdf/SAR-Guidebook.pdf

Shimizu, N., & Yastika, P. E. (2016). *Applications of DInSAR for Ground Surface Deformation Measurements-Case Studies of Subsidence Measurements and Deformation Detections Due to an Earthquake*. https://www.researchgate.net/publication/319876190

Stanford. (2023). *SNAPHU: Statistical-Cost, Network-Flow Algorithm for Phase Unwrapping*. Stanford Radar Interferometry Research Group.

Suwarsono, S., Prasasti, I., Nugroho, J. T., Sitorus, J., Arief, R., Rahmi, K. I. N., & Triyono, D. (2019). Detecting Deformation Due To The 2018 Merapi Volcano Eruption Using Interferometric Synthetic Aperture Radar (InSAR) From Sentinel-1 TOPS. *International Journal of Remote Sensing and Earth Sciences (IJReSES)*, *16*(1), 45. https://doi.org/10.30536/j.ijreses.2019.v16.a3145

Syahbana, D. K., Kasbani, K., Suantika, G., Prambada, O., Andreas, A. S., Saing, U. B., Kunrat, S. L., Andreastuti, S., Martanto, M., Kriswati, E., Suparman, Y., Humaida, H., Ogburn, S., Kelly, P. J., Wellik, J., Wright, H. M. N., Pesicek, J. D., Wessels, R., Kern, C., … Lowenstern, J. B. (2019). The 2017–19 Activity At Mount Agung in Bali (Indonesia): Intense Unrest, Monitoring, Crisis Response, Evacuation, And Eruption. *Scientific Reports*, *9*(1). https://doi.org/10.1038/s41598-019-45295-9

UCSD. (2010). *An InSAR Processing System Based On GMT*. https://topex.ucsd.edu/gmtsar/

University of Arizona. (1993). *Principles of Photogrammetry*.

University of California San Diego. (t.t.). *A Principles of Synthetic Aperture Radar A.1 Introduction*.

Valentino, G. (2021). *Introduction to Interferometric SAR*. European Space Agency.

Van Zyl, J., & Kim, Y. (2010). Synthetic Aperture Radars (SAR) Imaging Basics . Dalam *Synthetic Aperture Radar Polarimetry* (Vol. 2). John Wiley & Sons.

Wang, T., Liao, M., & Perissin, D. (2010). InSAR Coherence-Decomposition Analysis. *IEEE Geoscience and Remote Sensing Letters*, *7*(1), 156–160. https://doi.org/10.1109/LGRS.2009.2029126

Wellik, J. J., Prejean, S. G., & Syahbana, D. K. (2021). Repeating Earthquakes During Multiple Phases of Unrest and Eruption at Mount Agung, Bali, Indonesia, 2017. *Frontiers in Earth Science*, *9*. https://doi.org/10.3389/feart.2021.653164

Werner, C. L., Wegmüller, U., & Strozzi, T. (2002). *Processing Strategies For Phase Unwrapping For Insar Applications*.