UNIVERSITAS
GADJAH MADA
**Ekstraksi Deformasi Permukaan Koseismik 2.5-D Menggunakan Data Multiple SAR Sentinel-1 (Studi Kasus
: Gempa Bumi Iran 14 November 2021)**
GANI MAHENDRA, Hidayat Panuntun, ST., M.Eng., D.Sc.
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Aronoff, S. (2005). *Remote Sensing for GIS Managers*. ESRI Press.

Azhari, M., Karyanto, K., Rasimeng, S., & Mulyanto, B. (2020). ANALISIS DEFORMASI PERMUKAAN MENGGUNAKAN METODE DInSAR (Differential Interferometry Synthetic Aperture Radar) PADA STUDI KASUS GEMPABUMI LOMBOK PERIODE AGUSTUS 2018. *Jurnal Geofisika Eksplorasi*, *6*, 131–144. https://doi.org/10.23960/jge.v6i2.68

Baek, W. K., & Jung, H. S. (2020). Precise Three-Dimensional Deformation Retrieval in Large and Complex Deformation Areas via Integration of Offset-Based Unwrapping and Improved Multiple-Aperture SAR Interferometry: Application to the 2016 Kumamoto Earthquake. *Engineering*, *6*(8), 927–935. https://doi.org/10.1016/J.ENG.2020.06.012

Chen, C. W., & Zebker, H. A. (2002). Phase unwrapping for large SAR interferograms: statistical segmentation and generalized network models. *IEEE Transactions on Geoscience and Remote Sensing*, *40*(8), 1709–1719. https://doi.org/10.1109/TGRS.2002.802453

Curlander, J. C., & Mcdonough, R. N. (1991). *Synthetic Aperture Radar, Synthetic Aperture Radar Processing*. 672.

De Michele, M., Raucoules, D., De Sigoyer, J., Pubellier, M., & Chamot-Rooke, N. (2010). Three-dimensional surface displacement of the 2008 May 12 Sichuan earthquake (China) derived from Synthetic Aperture Radar: Evidence for rupture on a blind thrust. *Geophysical Journal International*, *183*(3), 1097–1103. https://doi.org/10.1111/J.1365-246X.2010.04807.X

Elliott, J. R., Walters, R. J., & Wright, T. J. (2016). The role of space-based observation in understanding and responding to active tectonics and earthquakes. *Nature Communications*, *7*(1), 13844. https://doi.org/10.1038/ncomms13844

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

UNIVERSITAS
GADJAH MADA
**Ekstraksi Deformasi Permukaan Koseismik 2.5-D Menggunakan Data Multiple SAR Sentinel-1 (Studi Kasus
: Gempa Bumi Iran 14 November 2021)**
GANI MAHENDRA, Hidayat Panuntun, ST., M.Eng., D.Sc.
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

ESA Training Manual, *19*.

Fuhrmann, T., & Garthwaite, M. C. (2019). Resolving three-dimensional surface motion with InSAR: Constraints from multi-geometry data fusion. *Remote Sensing*, *11*(3). https://doi.org/10.3390/RS11030241

Fujiwara, S., Nishimura, T., Murakami, M., Nakagawa, H., Tobita, M., & Rosen, P. A. (2000). 2.5-D surface deformation of M6.1 earthquake near Mt Iwate detected by SAR interferometry. *Geophysical Research Letters*, *27*(14), 2049–2052. https://doi.org/10.1029/1999GL011291

Funning, G. J., & Garcia, A. (2019). A systematic study of earthquake detectability using Sentinel-1 InterferometricWide-Swath data. *Geophysical Journal International*, *216*(1), 332–349. https://doi.org/10.1093/gji/ggy426

Ghanbarian, M. A., & Derakhshani, R. (2022). The folds and faults kinematic association in Zagros. *Scientific Reports*, *12*(1), 8350. https://doi.org/10.1038/s41598-022-12337-8

Goldstein, R. M., & Werner, C. L. (1998). Radar interferogram filtering for geophysical applications. *Geophysical Research Letters*, *25*(21), 4035–4038. https://doi.org/10.1029/1998GL900033

Gombert, B., Duputel, Z., Shabani, E., Rivera, L., Jolivet, R., & Hollingsworth, J. (2019). Impulsive Source of the 2017 MW=7.3 Ezgeleh, Iran, Earthquake. *Geophysical Research Letters*, *46*(10), 5207–5216. https://doi.org/10.1029/2018GL081794

Hicks, S. (2015). *Seismic properties and processes along the Subduction Plate Interface: the Februrary 2010 Mw 8.8 Maule, Chile Earthquake*. https://doi.org/10.13140/RG.2.1.3327.9607

Himematsu, Y., & Furuya, M. (2020). Coseismic and Postseismic Crustal Deformation Associated With the 2016 Kumamoto Earthquake Sequence Revealed by PALSAR-2 Pixel Tracking and InSAR. *Earth and Space Science*, *7*(10), e2020EA001200. https://doi.org/10.1029/2020EA001200

UNIVERSITAS
GADJAH MADA
**Ekstraksi Deformasi Permukaan Koseismik 2.5-D Menggunakan Data Multiple SAR Sentinel-1 (Studi Kasus
: Gempa Bumi Iran 14 November 2021)**
GANI MAHENDRA, Hidayat Panuntun, ST., M.Eng., D.Sc.
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Hu, J., Li, Z. W., Ding, X. L., Zhu, J. J., Zhang, L., & Sun, Q. (2014). Resolving three-dimensional surface displacements from InSAR measurements: A review. *Earth-Science Reviews*, *133*, 1–17. https://doi.org/https://doi.org/10.1016/j.earscirev.2014.02.005

Ical, A. (2017). *Identifikasi Sesar Menggunakan Metode Mekanisme Fokus di Wilayah Sesar Matano*. Univeesitas Hasanuddin.

Jensen, J. R. (2016). Introductory digital image processing : a remote sensing perspective / John R. Jensen. In *Introductory digital image processing : a remote sensing perspective* (4th ed.). Pearson Education, Inc.

Kurniawan, R., & Anjasmara, I. (2016). Pemanfaatan Metode Differential Intermerometry Synthetic Aperture Radar (DInSAR) untuk Pemantauan Deformasi Akibat Aktivitas Eksploitasi Panasbumi. *Jurnal Teknik ITS*, *5*. https://doi.org/10.12962/j23373539.v5i2.17361

Lillesand, T., Kiefer, R., & Chipman, J. (2015). Remote sensing and image interpretation Seventh Ed. *John Wiley and Sons, Inc., New York*, 736.

Luthfinur, I. (2015). *IDENTIFIKASI SESAR BAWAH PERMUKAAN MENGGUNAKAN METODE GEOLISTRIK KONFIGURASI SCHLUMBERGER (STUDI KASUS SUNGAI OPAK YOGYAKARTA)*. Universitas Negeri Semarang.

Massonnet, D., Rossi, M., Carmona, C., Adragna, F., Peltzer, G., Feigl, K., & Rabaute, T. (1993). The displacement field of the Landers earthquake mapped by radar interferometry. *Nature*, *364*(6433), 138–142. https://doi.org/10.1038/364138A0

Mohan, S. (2013). *Potentials and applications of Microwave remote sensing*.

Moore, S., Olds, S., Baker, S., & Malowany, G. (2021). *Interferometric Syntetic Aperture Radar: A remote Sensing Tool for Measuring Earth's Surface Deformation*.

Nissen, E., Ghods, A., Karasözen, E., Elliott, J. R., Barnhart, W. D., Bergman, E. A.,

UNIVERSITAS
GADJAH MADA
**Ekstraksi Deformasi Permukaan Koseismik 2.5-D Menggunakan Data Multiple SAR Sentinel-1 (Studi Kasus
: Gempa Bumi Iran 14 November 2021)**
GANI MAHENDRA, Hidayat Panuntun, ST., M.Eng., D.Sc.
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

Hayes, G. P., Jamal-Reyhani, M., Nemati, M., Tan, F., Abdulnaby, W., Benz, H. M., Shahvar, M. P., Talebian, M., & Chen, L. (2019). The 12 November 2017 Mw 7.3 Ezgeleh-Sarpolzahab (Iran) Earthquake and Active Tectonics of the Lurestan Arc. *Journal of Geophysical Research: Solid Earth*, *124*(2), 2124–2152. https://doi.org/10.1029/2018JB016221

Nissen, E., Tatar, M., Jackson, J. A., & Allen, M. B. (2011). New views on earthquake faulting in the Zagros fold-and-thrust belt of Iran. *Geophysical Journal International*, *186*(3), 928–944. https://doi.org/10.1111/J.1365-246X.2011.05119.X

Panuntun, H. (2021). Geodetic slip model of the November 26, 2019 Albania earthquake estimated from Sentinel-1 TOPS interferometry. *Tectonophysics*, *807*, 228814. https://doi.org/10.1016/J.TECTO.2021.228814

Panuntun, H. (2022). *2.5-D Surface Deformation due to the 24 January 2020 Elazig, Turkey Earthquake Estimated by Multiple Sentinel-1 InSAR Data*. *January 2020*, 1–5. https://doi.org/10.1109/apsar52370.2021.9688500

Pepe, A., & Calò, F. (2017). A Review of Interferometric Synthetic Aperture RADAR (InSAR) Multi-Track Approaches for the Retrieval of Earth's Surface Displacements. In *Applied Sciences* (Vol. 7, Nomor 12). https://doi.org/10.3390/app7121264

Perissin, D. (2016). *Interferometric SAR Multitemporal Processing: Techniques and Applications*.

Reddy, C., Arora, S., Sunil, P. S., & Prajapati, S. (2011). Earthquake Related Deformation Cycle: Perspectives from 2004 Sumatra and 2010 Chile Mega-Earthquakes. *Disaster Advances*, *4*, 13–21.

Richards, J. A. (2009). *Remote Sensing with Imaging Radar*. https://doi.org/10.1007/978-3-642-02020-9

Rysnawati, N., Sukarasa, I., & Paramarta, I. (2017). ANALISA TINGKAT BAHAYA DAN KERENTANAN BENCANA GEMPA BUMI DI WILAYAH NUSA TENGGARA TIMUR (NTT). *BULETIN FISIKA*, *18*, 32.

UNIVERSITAS
GADJAH MADA
**Ekstraksi Deformasi Permukaan Koseismik 2.5-D Menggunakan Data Multiple SAR Sentinel-1 (Studi Kasus
: Gempa Bumi Iran 14 November 2021)**
GANI MAHENDRA, Hidayat Panuntun, ST., M.Eng., D.Sc.
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

https://doi.org/10.24843/BF.2017.v18.i01.p06

Sandwell, D., Mellors, R., Tong, X., Wei, M., & Wessel, P. (2011). Open radar interferometry software for mapping surface Deformation. *Eos, Transactions American Geophysical Union*, *92*(28), 234–234. https://doi.org/10.1029/2011EO280002

Suprayogi, A., Bagas, & Sabri. (2020). Survei Deformasi Dengan Metode Gnss Tahun 2019 Di Sekitar Jembatan Penggaron. *Jurnal Geodesi Undip*, *9*(2), 177–187.

Torres, R., Snoeij, P., Geudtner, D., Bibby, D., Davidson, M., Attema, E., Potin, P., Rommen, B. Ö., Floury, N., Brown, M., Traver, I. N., Deghaye, P., Duesmann, B., Rosich, B., Miranda, N., Bruno, C., L'Abbate, M., Croci, R., Pietropaolo, A., … Rostan, F. (2012). GMES Sentinel-1 mission. *Remote Sensing of Environment*, *120*, 9–24. https://doi.org/10.1016/J.RSE.2011.05.028

Ulaby, F. T., Long, D. G., Elachi, C., & Sarabandi, K. (2014). *Microwave Radar and Radiometric Remote Sensing*. University of Michigan Press.

User Guides - Sentinel-1 SAR - Sentinel Online - Sentinel Online. (n.d.). Diambil 22 Juli 2022, dari https://sentinel.esa.int/web/sentinel/user-guides/sentinel-1-sar

Van der Pluijm, B. (2004). *Earth Structure - An Introduction to Structural Geology & Tectonics*.

Watson, A. R., Elliott, J. R., & Walters, R. J. (2022). Interseismic Strain Accumulation Across the Main Recent Fault, SW Iran, From Sentinel-1 InSAR Observations. *Journal of Geophysical Research: Solid Earth*, *127*(2), e2021JB022674. https://doi.org/https://doi.org/10.1029/2021JB022674

Wessel, P., Luis, J. F., Uieda, L., Scharroo, R., Wobbe, F., Smith, W. H. F., & Tian, D. (2019). The Generic Mapping Tools Version 6. *Geochemistry, Geophysics, Geosystems*, *20*(11), 5556–5564. https://doi.org/10.1029/2019GC008515

Wright, T., Parsons, B., & Lu, Z. (2004). Toward mapping surface deformation in three dimensions using InSAR. *Geophys. Res. Lett*, *31*.

UNIVERSITAS
GADJAH MADA
**Ekstraksi Deformasi Permukaan Koseismik 2.5-D Menggunakan Data Multiple SAR Sentinel-1 (Studi Kasus
: Gempa Bumi Iran 14 November 2021)**
GANI MAHENDRA, Hidayat Panuntun, ST., M.Eng., D.Sc.
Universitas Gadjah Mada, 2022 | Diunduh dari http://etd.repository.ugm.ac.id/

https://doi.org/10.1029/2003GL018827