

DAFTAR PUSTAKA

- Abidin, H. Z. (2001). Geodesi Satelit. PT Pradnya Paramita Jakarta.
- Addington, K. D., Zick, S. E., Wood, K. M., Matyas, C. J., & Berislavich, K. (2025). Variations in Tropical Cyclone Size and Rainfall Patterns Based on Synoptic-Scale Moisture Environments in the North Atlantic. *Journal of Geophysical Research: Atmospheres*, 130(10). <https://doi.org/10.1029/2024JD043135>
- Astafyeva, E. (2019). Ionospheric Detection of Natural Hazards. *Reviews of Geophysics*, 57(4), 1265–1288. <https://doi.org/10.1029/2019RG000668>
- Azis, R. A., Suhandri, H. F., & Wijaya, & D. D. (2018). Ketelitian Posisi Pengamatan GNSS Metode Precise Point Positioning dan Metode Penentuan Posisi Relatif. *ITB Indonesian Journal of Geospatial*, 05(2), 1–10.
- Bakara, J. (2011). Perkembangan Sistem Satelit Navigasi Global dan Aplikasinya. 2(12), 38–47.
- Barbarosa, A., Wijaya, D. D., Tanuwijaya, Z. A. J., Putri, N. S. E., & Kuntjoro, W. (2023). Correlation Analysis of GNSS-Derived Precipitable Water Vapor (PWV) with Rainfall Data in Indonesia. *IOP Conference Series: Earth and Environmental Science*, 1245(1). <https://doi.org/10.1088/1755-1315/1245/1/012035>
- BIG (2025). Ina-Geoportal. Diakses pada 20 Februari 2025 dari Website Tanah Air Indonesia: <https://tanahair.indonesia.go.id/>
- BMKG (2015). Dampak Siklon Tropis. Diakses pada 20 Februari 2025 dari Website Meteorologi BMKG: <https://web-meteo.bmkg.go.id/id/component/content/article/37-siklon-tropis/274-dampak-siklon-tropis>
- BMKG (2015). Siklus Hidup Siklon Tropis. Diakses pada 20 Februari 2025 dari Website Meteorologi BMKG: <https://web-meteo.bmkg.go.id/id/component/content/article/37-siklon-tropis/270-siklus-hidup-siklon-tropis>
- BMKG (2025). Indonesia Dikepung Tiga Bibit Siklon Aktif, BMKG Imbau Kewaspadaan Cuaca Ekstrem. Diakses pada 20 Februari 2025 dari [bmkg.go.id](https://www.bmkg.go.id): <https://www.bmkg.go.id/siaran-pers/indonesia-dikepung-tiga-bibit-siklon-aktif-bmkg-imbau-kewaspadaan-cuaca-ekstrem>
- BMKG (2025). Waspada! Siklon Tropis dan Seruakan Dingin Pengaruhi Kembali Cuaca Indonesia Sepekan ke Depan. Diakses pada 20 Februari 2025 dari [bmkg.go.id](https://www.bmkg.go.id): <https://www.bmkg.go.id/siaran-pers/waspada-siklon-tropis-dan-seruakan-dingin-pengaruhi-kembali-cuaca-indonesia-sepekan-ke-depan>
- Cahyadi, M. N., Bawasir, A., Arief, S., Widodo, A., Handoko, E. Y., Maulida, P., Sulaiman, S. A. H., Ab Latip, A. S., & Harun, Z. (2024). Effect of the 2021 Cumbre Vieja Eruption on Precipitable Water Vapor and Atmospheric Particles Analysed using GNSS and Remote Sensing. *Studia Geophysica et Geodaetica*, 68, 216–244. <https://doi.org/10.1007/s11200-023-0241-6>
- Dayana, I. (2022). Fisika Atmosfer. Guepedia.
- Deng, D., & Ritchie, E. A. (2018). A Metric for Rainfall Asymmetry in Recurring Tropical Cyclones. *Geophysical Research Letters*, 45(4), 6741–6749. [https://doi.org/10.1175/1520-0493\(2003\)131<0585:ACPSDF>2.0.CO;2](https://doi.org/10.1175/1520-0493(2003)131<0585:ACPSDF>2.0.CO;2)
- Dermawan, A. A. A., Handoko, E. Y., & Maulida, P. (2022). An Estimation of Precipitable Water Vapour around Surabaya City using GIPSY-X. *IOP Conference Series: Earth and Environmental Science*, 1127(1). <https://doi.org/10.1088/1755-1315/1127/1/012004>

- Drozdowski, M., Sośnica, K., Strugarek, D., Zajdel, R., Bury, G., Arnold, D., & Jäggi, A. (2021). Satellite Laser Ranging to GNSS-Based Swarm Orbits with Handling of Systematic Errors. *GPS Solutions*, 26(4). <https://doi.org/10.1007/s10291-022-01289-1>
- Du, Z., Yao, Y., Zhang, B., & Zhao, Q. (2024). Precipitable Water Vapor Estimation from Himawari-8/AHI Observations using a Stacking Machine Learning Model. *Atmospheric Research*, 301. <https://doi.org/10.1016/j.atmosres.2024.107281>
- Gao, Y., & Wang, X. (2024). Analysis of the Response Relationship between PWV and Meteorological Parameters using Combined GNSS and ERA5 Data: A Case Study of Typhoon Lekima. *Atmosphere*, 15(10). <https://doi.org/10.3390/atmos15101249>
- Ghaderpour, E., Mazzanti, P., Bozzano, F., & Scarascia Mugnozza, G. (2024). Trend Analysis of MODIS Land Surface Temperature and Land Cover in Central Italy. *Land*, 13(6). <https://doi.org/10.3390/land13060796>
- Gurbuz, G., Jin, S., & Mekik, C. (2015). Sensing Precipitable Water Vapor (PWV) using GPS in Turkey – Validation and Variations. Dalam *Satellite Positioning - Methods, Models and Applications*. InTech. <https://doi.org/10.5772/60025>
- Habibie, M. N., Noviyati, S., & Harsa, H. (2018). Pengaruh Siklon Tropis Cempaka terhadap Curah Hujan Harian di Wilayah Jawa dan Madura. *Jurnal Meteorologi dan Geofisika*.
- Hadi, I. W. (2019). Kajian Ketelitian Hasil Pengukuran Menggunakan Low Cost GNSS dan GPS Geodetik Menggunakan Metode PPP Online [Institut Teknologi Nasional Malang]. <http://eprints.itn.ac.id/id/eprint/1521>
- Handoko, D., Widjadjanti, N., & Muslim, B. (2019). Performa Metode Precise Point Positioning (PPP) dengan Koreksi Ionosfer Orde 1 pada Data Pengamatan Stasiun CORS BIG. *ELIPSOIDA Jurnal Geodesi dan Geomatika*, 2(2), 78–84.
- Handoko, E. Y., Maulida, P., Kurniawan, A., & Dermawan, A. A. A. (2023). Pengaruh Australian Summer Moonson pada Precipitable Water Vapour di Jawa Timur Tahun 2015-2020. *Geoid: Journal of Geodesy and Geomatics*, 18(2), 215–220.
- Haryani, N. S., & Zubaidah, A. (2012). Dinamika Siklon Tropis di Asia Tenggara Menggunakan Data Penginderaan Jauh. *Jurnal Ilmiah Widya*.
- Hermawati, M. (2019). Analisis Perbandingan Estimasi Kandungan Uap Air Menggunakan Data Meteorologi, Data ERA-Interim, dan Global Positioning System (Studi Kasus: Kota Surabaya). Institut Teknologi Sepuluh Nopember.
- Hernandez-Torres, J. A., Torreglosa, J. P., Sanchez-Herrera, R., Bischi, A., & Baccioli, A. (2024). Development of an Optimized Non-linear Model for Precise Dew Point Estimation in Variable Environmental Conditions. *Applied Sciences (Switzerland)*, 14(22). <https://doi.org/10.3390/app142210508>
- Hersbach, H., Bell, B., Berrisford, P., Hirahara, S., Horányi, A., Muñoz-Sabater, J., Nicolas, J., Peubey, C., Radu, R., Schepers, D., Simmons, A., Soci, C., Abdalla, S., Abellan, X., Balsamo, G., Bechtold, P., Biavati, G., Bidlot, J., Bonavita, M., ... Thépaut, J. N. (2020). The ERA5 Global Reanalysis. *Quarterly Journal of the Royal Meteorological Society*, 146(730), 1999–2049. <https://doi.org/10.1002/qj.3803>
- Iacovelli, D. (2001). The Saffir/Simpson Hurricane Scale: An Interview with Dr. Robert Simpson. novalynx.com.
- Kahfi, M., Falgenti, K., Rizqi, L. D., Megawulan, D., Iqbal, M., & Furqon, F. (2023). Analisis Pengaruh Suhu Udara Rata-rata terhadap Kelembaban di Wilayah DKI Jakarta Menggunakan Regresi Linear. *Conference on Electrical Engineering, Informatics, Industrial Technology, and Creative Media 2023*, 3(1), 1–10. http://dataonline.bmkg.go.id/data_iklim
- Khadka, B., Karn, A. K., Chaurasia, S. K., Bista, S. K., & Thakuri, P. C. (2019). Study of Monthly Variation of Precipitable Water Vapor, Sensor Temperature, Dew Point

- Temperature, Rainfall and Relative Humidity using AERONET's CIMEL Sunphotometer in Lumbini. *International Journal of Recent Research and Review*, *XII*(1). <https://www.researchgate.net/publication/331590309>
- Liu, W., Zhang, L., Xiong, S., Huang, L., Xie, S., & Liu, L. (2023). Investigating the ERA5-Based PWV Products and Identifying the Monsoon Active and Break Spells with Dense GNSS Sites in Guangxi, China. *Remote Sensing*, *15*(19). <https://doi.org/10.3390/rs15194710>
- Lu, E. (2007). Understanding the Effects of Atmospheric Circulation in the Relationships between Water Vapor and Temperature through Theoretical Analyses. *Geophysical Research Letters*, *34*(14). <https://doi.org/10.1029/2007GL029727>
- Mannel, B., Zus, F., Dick, G., Glaser, S., Semmling, M., Balidakis, K., Wickert, J., Maturilli, M., Dahlke, S., & Schuh, H. (2021). GNSS-Based Water Vapor Estimation and Validation during the MOSAiC Expedition. *Atmospheric Measurement Techniques*, *14*(7), 5127–5138. <https://doi.org/10.5194/amt-14-5127-2021>
- NASA. (2025). Diakses pada 20 Februari 2025 dari NASA POWER | Data Access View: <https://power.larc.nasa.gov/data-access-viewer/>
- Nilsson, T., & Elgered, G. (2008). Long-term Trends in the Atmospheric Water Vapor Content Estimated from Ground-Based GPS Data. *Journal of Geophysical Research Atmospheres*, *113*(19). <https://doi.org/10.1029/2008JD010110>
- NOAA (2024). National Oceanic and Atmospheric Administration Website. Diakses pada 15 Juli 2025 dari Layers of the Atmosphere: <https://www.noaa.gov/jetstream/atmosphere/layers-of-atmosphere>
- Ntagkounakis, G., Nastos, P., Kapsomenakis, J., & Douvis, K. (2025). Creation and Comparison of High-Resolution Daily Precipitation Gridded Datasets for Greece using a Variety of Interpolation Techniques. *Hydrology*, *12*(2). <https://doi.org/10.3390/hydrology12020031>
- Putri, N. S. E., Wijaya, D. D., Abdillah, M. R., Tanuwijaya, Z. A. J., Wibowo, S. T., & Kuntjoro, W. (2023). Characterizing the Tropical Cyclone Seroja using the Indonesian CORS Network. *Natural Hazards*, *119*(3), 1819–1838. <https://doi.org/10.1007/s11069-023-06181-w>
- Ravelino, B. (2024). Mengerti Siklon Anggrek: Prakiraan Cuaca Ekstrem dan Dampaknya di Indonesia. Fakultas Geografi UGM.
- Sari, A., Rahmadi, E., & Fadly, R. (2024). Analisis Nilai Zenith Tropospheric Delay (ZTD) CORS ULPC UNILA dengan Metode Precise Point Positioning (PPP). *Jurnal Ilmiah Tekno Global*, *13*(01), 7–13. <https://webapp.geod.nrcan.gc.ca/>
- Sari, F. M., Hadiati, R. N., & Sihotang, W. P. (2023). Pearson Correlation Analysis of Total Population and Number of Motorized Vehicles in Jambi Province. *Multi Proximity: Jurnal Statistika Universitas Jambi*, *2*(1), 39–44. <https://doi.org/10.22437/multiproximity.v2i1.25568>
- Serrano-Vincenti, S., Condom, T., Campoano, L., Escobar, L. A., Walpersdorf, A., Carchipulla-Morales, D., & Villacís, M. (2022). Harmonic Analysis of the Relationship between GNSS Precipitable Water Vapor and Heavy Rainfall over the Northwest Equatorial Coast, Andes, and Amazon Regions. *Atmosphere*, *13*(11). <https://doi.org/10.3390/atmos13111809>
- Setiawan, P., Hidayat, A., Sugiharlo, T., Hasnaeni, & H, P. (2006). Estimasi Air Mampu Curah Menggunakan Data MODIS sebagai Informasi Cuaca Spasial di Pulau Jawa. *3*, 64–76.
- Sugiyanto, P. A., Istiqomah, A., Ramadhan, P., & Fadlan, A. (2017). Distribusi Curah Hujan sebagai Dampak dari Fenomena Siklon Tropis Stan (27 Januari hingga 1 Februari 2016)

- di Wilayah Makassar, Bima, Komodo, dan Cilacap. *Prosiding Pekan Ilmiah Fisika Universitas Negeri Semarang*.
- Suresh, P. L., & Raju, K. N. (2022). Study of Test for Significance of Pearson's Correlation Coefficient. *International Journal of Science and Research (IJSR)*, 11(10), 164–166. <https://doi.org/10.21275/SR22915140002>
- Susilo, Wijaya, D. D., Koentjoro, W., & Efendi, J. (2012). Studi Konstanta Tm (Mean Weight Temperature) untuk Penentuan Kandungan Uap Air dari Data GPS di Indonesia. *Globe*, 14(2), 110–115.
- Syaifullah, D. M. (2015). Siklon Tropis, Karakteristik dan Pengaruhnya di Wilayah Indonesia pada Tahun 2012. *Jurnal Sains dan Teknologi Modifikasi Cuaca*, 16(2), 61–71.
- Wang, S., Xu, T., Nie, W., Jiang, C., Yang, Y., Fang, Z., Li, M., & Zhang, Z. (2020). Evaluation of Precipitable Water Vapor from Five Reanalysis Products with Ground-Based GNSS Observations. *Remote Sensing*, 12(11). <https://doi.org/10.3390/rs12111817>
- Wang, X., Chen, F., Ke, F., & Xu, C. (2022). An Empirical Grid Model for Precipitable Water Vapor. *Remote Sensing*, 14(23). <https://doi.org/10.3390/rs14236174>
- Wijaya, D. D., Putri, N. S. E., Wibowo, S. T., & Kuntjoro, W. (2022). Seasonal and Annual Variations of the GPS-Based Precipitable Water Vapor Over Sumatra, Indonesia. *Atmospheric Research*, 275. <https://doi.org/10.1016/j.atmosres.2022.106216>
- Yeh, T. K., Shih, H. C., Wang, C. S., Choy, S., Chen, C. H., & Hong, J. S. (2018). Determining the Precipitable Water Vapor Thresholds under Different Rainfall Strengths in Taiwan. *Advances in Space Research*, 61(3), 941–950. <https://doi.org/10.1016/j.asr.2017.11.002>
- Zhang, T., Xie, F., Xia, Y., Wang, Y., Zhou, L., Xiang, X., & Niu, Y. (2025). Impact of Middle Stratospheric Water Vapor Increase on Polar Vortices: A Case Study of the Tonga Volcanic Eruption. *Theoretical and Applied Climatology*, 156(1). <https://doi.org/10.1007/s00704-024-05276-z>
- Zoom Earth (2025). Diakses pada 20 Februari 2025 dari Zoom Earth | Live Weather Map & Hurricane Tracker.