

## DAFTAR PUSTAKA

- Abd-Elbaky, M., & Jin, S. (2019). Hydrological mass variations in the Nile River Basin from GRACE and hydrological models. *Geodesy and Geodynamics*, 10(6), 430-438.
- Akbar, D., Utami, S. N. N., & Virgianto, R. H. (2021). Analisis hubungan kekeringan meteorologis dengan kekeringan agrikultural di Pulau Lombok menggunakan Korelasi Pearson. *Ilm. Pend. Mat*, 9, 133-144.
- Aquino, D. D. N., Rocha Neto, O. C. D., Moreira, M. A., Teixeira, A. D. S., & Andrade, E. M. D. (2018). Use of remote sensing to identify areas at risk of degradation in the semi-arid region. *Revista Ciência Agronômica*, 49, 420-429.
- BMKG. (2020). *Tanya Jawab: La Nina, El Nino, dan Musim di Indonesia*. Jakarta
- BNPB. (2021). Dokumen Kajian Risiko Bencana Nasional Provinsi Kalimantan Barat 2022 – 2024. Diakses pada 28 Februari 2025, dari <https://inarisk.bnpb.go.id>.
- BPS. (2024). Kabupaten Kubu Raya Dalam Angka 2024. Diakses pada 28 Februari 2025, dari <https://kuburayakab.bps.go.id/id/>
- Breiman, L. (2001). Random forests. *Machine Learning*, 45(1), 5–32.
- Breiman, L., Friedman, J. H., Olshen, R. A., & Stone, C. J. (2017). *Classification and regression trees*. Routledge.
- Chai, T., & Draxler, R. R. (2014). Root mean square error (RMSE) or mean absolute error (MAE). *Geoscientific model development discussions*, 7(1), 1525-1534.
- Chanu, C. S., Munagapati, H., Tiwari, V. M., Kumar, A., & Elango, L. (2020). Use of GRACE time-series data for estimating groundwater storage at small scale. *Journal of Earth System Science*, 129(1). <https://doi.org/10.1007/s12040-020-01465-2>
- Dicelebica, T. F., Akbar, A. A., & Jati, D. R. (2022). Identifikasi dan Pencegahan Daerah Rawan Bencana Kebakaran Hutan dan Lahan Gambut Berbasis Sistem Informasi Geografis di Kalimantan Barat. *Jurnal Ilmu Lingkungan*, 20(1), 115-126.
- Farr, T. G., Rosen, P. A., Caro, E., Crippen, R., Duren, R., Hensley, S., ... & Alsdorf, D. (2007). The shuttle radar topography mission. *Reviews of geophysics*, 45(2).
- Fatehah, T. N., Putra, Y. S., & Adriat, R. (2022). Variasi Temporal Kekeringan Menggunakan Standardized Precipitation-Evapotranspiration Index (SPEI) di Kalimantan Barat. *Prisma Fisika*, 10(2), 183-186.
- Gaur, A., & Simonovic, S. P. (2019). Introduction to physical scaling: a model aimed to bridge the gap between statistical and dynamic downscaling approaches. In *Trends and changes in hydroclimatic variables* (pp. 199-273). Elsevier.
- Giroto, M., & Rodell, M. (2019). Terrestrial water storage. In *Extreme hydroclimatic events and multivariate hazards in a changing environment* (pp. 41-64). Elsevier.
- Gu, X., Xiao, Y., Yin, S., Shao, J., Pan, X., Niu, Y., & Huang, J. (2017). Groundwater Level Response to Hydrogeological Dactors in A Semi-arid Basin of Beijing, China. *Journal of Water Supply: Research and Technology AQUA*, 66(4), 266-278
- Güntner, A., Boergens, E., & Flechtner, F. (2023). Ein Wasserzähler im Weltraum. *System Erde*, 13(1), 24-29.

- Hanifah, E. (2022). Downscaling Citra GRACE untuk Analisis Perubahan Tinggi Muka Airtanah Tahun 2020, Studi Kasus Provinsi Jawa Tengah (Skripsi, Universitas Gadjah Mada).
- Irsyad, F., Saptomo, S. K., & Setiawan, B. I. (2014). Penentuan Awal Dan Durasi Musim Kemarau Menggunakan Fungsi Polynomial Dengan Aplikasi Visual Basic for Applications (VBA). *Agromet*, 28(1), 40-46.
- Kiwi. (2023). *Antisipasi dampak El Nino, Kalbar siaga darurat Karhutla*. Suara Pemred. Diakses pada 14 Juli 2025, dari <https://www.suarapemredkalbar.com/read/ponticity/12072023/antisipasi-dampak-el-nino-kalbar-siaga-darurat-karhutla>
- Lewis, C. D. (1982). *Industrial and business forecasting methods*. London: Butterworths Publishing.
- Li, B., Rodell, M., Kumar, S., Beaudoin, H. K., Getirana, A., Zaitchik, B. F., de Goncalves, L. G., Cossetin, C., Bhanja, S., Mukherjee, A., Tian, S., Tangdamrongsub, N., Long, D., Nanteza, J., Lee, J., Policelli, F., Goni, I. B., Daira, D., Bila, M., ... Bettadpur, S. (2019). Global GRACE Data Assimilation for Groundwater and Drought Monitoring: Advances and Challenges. *Water Resources Research*, 55(9), 7564–7586. <https://doi.org/10.1029/2018WR024618>
- Liang, S. (2004). *Quantitative Remote Sensing of Land Surface*. New York: John Wiley&Sons, Inc.
- Liu, J., Yuan, D., Zhang, L., Zou, X., & Song, X. (2016). Comparison of three statistical downscaling methods and ensemble downscaling method based on Bayesian model averaging in upper Hanjiang River Basin, China. *Advances in Meteorology*, 2016(1), 7463963.
- Mahour, M. (2018). Scaling of Remote Sensing Information for Orchard Management.
- Milewski, A. M., Thomas, M. B., Seyoum, W. M., & Rasmussen, T. C. (2019). Spatial Downscaling of GRACE TWSA Data to Identify Spatiotemporal Groundwater Level Trends in the Upper Floridan Aquifer, Georgia, USA. *Remote Sensing*, 1-20.
- Mimić, G., Živaljević, B., Blagojević, D., Pejak, B., & Brdar, S. (2022). Quantifying the Effects of Drought Using the Crop Moisture Stress as an Indicator of Maize and Sunflower Yield Reduction in Serbia. *Atmosphere*, 13(11). <https://doi.org/10.3390/atmos13111880>
- Patelli, L., Cameletti, M., Golini, N., & Ignaccolo, R. (2023). *A path in regression Random Forest looking for spatial dependence: a taxonomy and a systematic review*. <http://arxiv.org/abs/2303.04693>
- Pratama, I. A., Sukmono, A., & Firdaus, H. S. (2018). Identifikasi Potensi Air Tanah Berbasis Pengindraan Jauh Dan Sistem Informasi Geografis (Studi Kasus: Kabupaten Kendal). *Jurnal Geodesi Undip*, 7(4), 55-65.
- Ramadhi, A. (2021). *Dampak Kebakaran Hutan dan Lahan di Kesatuan Hidrologis Gambut (KHG) Sungai Saleh – Sungai Sugihan Terhadap Tingkat Penurunan Muka Lahan Gambut (Peatland Subsidence) Menggunakan Citra Satelit Sentinel-1A SAR Data pada Tahun 2019*. Diakses pada 28 Mei 2025 dari [https://pantaugambut.id/storage/widget\\_multiple/almi-ramadhi-cygov.pdf](https://pantaugambut.id/storage/widget_multiple/almi-ramadhi-cygov.pdf)
- Rostianto, E. (2021). *Studi Perubahan Simpanan Air Tanah Pada Daerah Aliran Sungai Untuk Pemantauan Kekeringan Menggunakan Satelit GRACE (Studi Kasus: Basin*

*Sungai Brantas Dan Bengawan Solo*) (Skripsi, Institut Teknologi Sepuluh Nopember).

- Rui, H. L., & Beaudoin, H. (2019). README Document for NASA GLDAS Version 2 Data Products. *Goddard Earth Sciences Data and Information Services Center (GES DISC)*. [https://data.mint.isi.edu/files/rawdata/GLDAS\\_NOAH025\\_M.2.0/doc/README\\_GLDAS2.pdf](https://data.mint.isi.edu/files/rawdata/GLDAS_NOAH025_M.2.0/doc/README_GLDAS2.pdf)
- Rui, H. L., & Beaudoin, H. (2020). README Document for NASA GLDAS Version 2 Data Products. *Goddard Earth Sciences Data and Information Services Center (GES DISC)*, [https://hydro1.gesdisc.eosdis.nasa.gov/data/GLDAS/README\\_GLDAS2.pdf](https://hydro1.gesdisc.eosdis.nasa.gov/data/GLDAS/README_GLDAS2.pdf).
- Sahu, A. S. (2014). Identification and mapping of the water-logged areas in Purba Medinipur part of Keleghai river basin, India: RS and GIS methods. *International Journal of Advanced Geosciences*, 2(2), 59-65.
- Singh, V. K., Pandey, H. K., & Singh, S. K. (2023). Groundwater storage change estimation using GRACE data and Google Earth Engine: A basin scale study. *Physics and Chemistry of the Earth, Parts a/b/c*, 129, 103297.
- Siwila, S., Taye, M. T., Quevauviller, P., & Willems, P. (2013). Climate change impact investigation on hydro-meteorological extremes on Zambia's Kabompo catchment. *Assoc. Acque Sotteranee*, 29-40.
- SUHET. (2013). *Sentinel-2 User Handbook*. Paris: ESA.
- Sulaeman, D., & Ayunda, D. (2020). *4 Dampak Penyiapan Lahan dengan Pembakaran terhadap Kondisi Biofisik Lahan Gambut*. WRI Indonesia. Diakses pada 28 Mei 2025, dari <https://wri-indonesia.org/id/wawasan/4-dampak-penyiapan-lahan-dengan-pembakaran-terhadap-kondisi-biofisik-lahan-gambut>.
- Tallaksen, L. M., & Van Lanen, H. A. (Eds.). (2023). *Hydrological drought: processes and estimation methods for streamflow and groundwater*.
- Troch, P., Durcik, M., Seneviratne, S., Hirschi, M., Teuling, A., Hurkmans, R., & Hasan, S. (2007). New data sets to estimate terrestrial water storage change. *Eos, Transactions American Geophysical Union*, 88(45), 469-470.
- Viviers, C., van der Laan, M., Gaffoor, Z., & Dippenaar, M. (2024). Downscaling and validating GLDAS groundwater storage anomalies by integrating precipitation for recharge and actual evapotranspiration for discharge. *Journal of Hydrology: Regional Studies*, 54, 101879.
- Vizzari, M. (2022). PlanetScope, Sentinel-2, and Sentinel-1 data integration for object-based land cover classification in Google Earth Engine. *Remote Sensing*, 14(11), 2628.
- Wang, F., Wang, Z., Yang, H., Di, D., Zhao, Y., & Liang, Q. (2020). Utilizing GRACE-based groundwater drought index for drought characterization and teleconnection factors analysis in the North China Plain. *Journal of Hydrology*, 585, 124849.
- Wijaya, R. A., & Akbar, A. A. (2024). Pemetaan bahaya bencana kebakaran hutan dan lahan terhadap kesatuan hidrologis gambut (KHG) di Kabupaten Kubu Raya. *Geography: Jurnal Kajian, Penelitian dan Pengembangan Pendidikan*, 12(1), 516-530.
- Wirawan, P. A., & Heliani, L. S. (2021, December). Estimasi Perubahan Nilai Simpanan Air di Wilayah Pulau Kalimantan Berdasarkan Kombinasi Data Gayaberat Satelit Grace

Dan Grace Follow-On. In *Prosiding Forum Ilmiah Tahunan (FIT)-Ikatan Surveyor Indonesia (ISI)* (Vol. 1, pp. 38-44). Departemen Teknik Geodesi, Fakultas Teknik, Universitas Diponegoro.

Zuidam, R. V. (1985). Aerial photo-interpretation in terrain analysis and geomorphologic mapping. *ITC, Smits Publ., Enschede, The Hague*.

Zhao, M., Velicogna, I., & Kimball, J. S. (2017). A global gridded dataset of GRACE drought severity index for 2002–14: Comparison with PDSI and SPEI and a case study of the Australia millennium drought. *Journal of Hydrometeorology*, 18(8), 2117-2129.