

## DAFTAR PUSTAKA

- Aldrian, E., & Dwi Susanto, R. (2003). Identification of three dominant rainfall regions within Indonesia and their relationship to sea surface temperature. *International Journal of Climatology*, 23(12), 1435–1452. <https://doi.org/10.1002/joc.950>
- Arisman. (2020). Analisis Tren Kebakaran Hutan dan Lahan di Indonesia Periode Tahun 2015-2019 Trend Analysis of Forest and Land Fires in Indonesia periods 2015-2019. *Jurnal Sains Teknologi & Lingkungan*, 6(1), 1–9. <https://doi.org/https://doi.org/10.29303/jstl.v6i1.131>
- Astiani, D., Burhanuddin, B., Curran, L. M., Mujiman, M., & Salim, R. (2017). Effects of Drainage Ditches on Water Table Level, Soil Conditions and Tree Growth of Degraded Peatland Forests in West Kalimantan. *Indonesian Journal of Forestry Research*, 4(1), 15–25. <https://doi.org/10.20886/ijfr.2017.4.1.15-25>
- Astiani, D., Mujiman, Hatta, M., Hanisah, & Fifian, F. (2015). Soil CO<sub>2</sub> Respiration Along Annual Crops or Land-cover Type Gradients on West Kalimantan Degraded Peatland Forest. *Procedia Environmental Sciences*, 28, 132–141. <https://doi.org/10.1016/J.PROENV.2015.07.019>
- Brando, P. M., Balch, J. K., Nepstad, D. C., Morton, D. C., Putz, F. E., Coe, M. T., Silvério, D., Macedo, M. N., Davidson, E. A., Nóbrega, C. C., Alencar, A., & Soares-Filho, B. S. (2014). Abrupt increases in Amazonian tree mortality due to drought-fire interactions. *Proceedings of the National Academy of Sciences of the United States of America*, 111(17), 6347–6352. <https://doi.org/10.1073/pnas.1305499111>
- Brown, M. E., Escobar, V., Moran, S., Entekhabi, D., O'Neill, P. E., Njoku, E. G., Doorn, B., & Entin, J. K. (2013). NASA's soil moisture active passive (SMAP) mission and opportunities for applications users. *Bulletin of the American Meteorological Society*, 94(8), 1125–1128. <https://doi.org/10.1175/BAMS-D-11-00049.1>
- Bussberg, N. W. (2021). Spatio-Temporal Statistics With R. In *The American Statistician* (Vol. 75, Issue 1). <https://doi.org/10.1080/00031305.2020.1865066>
- Caroletti, G. N., Coscarelli, R., & Caloiero, T. (2019). Validation of satellite, reanalysis and RCM data of monthly rainfall in Calabria (Southern Italy). *Remote Sensing*, 11(13). <https://doi.org/10.3390/rs11131625>
- Chen, C. C., Lin, H. W., Yu, J. Y., & Lo, M. H. (2016). The 2015 Borneo fires: What have we learned from the 1997 and 2006 El Niños? *Environmental Research Letters*, 11(10), 1–7. <https://doi.org/10.1088/1748-9326/11/10/104003>
- Dariah, A., Agus, F., Susanti, E., & Jubaedah, . (2013). Relationship between

- Distance Sampling and Carbon Dioxide Emission under Oil Palm Plantation. *JOURNAL OF TROPICAL SOILS*, 18(2), 125.  
<https://doi.org/10.5400/JTS.2013.V18I2.125-130>
- Entekhabi, D., Njoku, E. G., O'Neill, P. E., Kellogg, K. H., Crow, W. T., Edelstein, W. N., Entin, J. K., Goodman, S. D., Jackson, T. J., Johnson, J., Kimball, J., Piepmeier, J. R., Koster, R. D., Martin, N., McDonald, K. C., Moghaddam, M., Moran, S., Reichle, R., Shi, J. C., ... Van Zyl, J. (2010). The soil moisture active passive (SMAP) mission. *Proceedings of the IEEE*, 98(5), 704–716. <https://doi.org/10.1109/JPROC.2010.2043918>
- Fanin, T., & Van Der Werf, G. R. (2017). Precipitation-fire linkages in Indonesia (1997-2015). *Biogeosciences*, 14, 3995–4008. <https://doi.org/10.5194/bg-14-3995-2017>
- Fatkuroyan, Wati, T., & Kurniawan, R. (2021). Characteristic of Soil Moisture in Indonesia Using ESA CCI Satellites Products. *Indonesian Journal of Geography*, 53(1), 54–60. <https://doi.org/10.22146/IJG.43905>
- Food and Agriculture Organization of the United Nations. (2014). World Reference Base for Soil Resources 2014. In *World Soil Resources Reports No. 106*. <http://www.fao.org/soils-portal/soil-survey/soil-classification/world-reference-base/en/>
- Freitas, M. A. de S. (2005). *UM SISTEMA DE SUPORTE À DECISÃO PARA O MONITORAMENTO DE SECAS METEOROLÓGICAS EM REGIÕES SEMI-ÁRIDAS*.
- Giglio, L. (2018). MODIS Collection 4 Active Fire Product User ' s Guide Table of Contents. Revisión B. *Nasa*, 1(June), 64.
- Hall, R., Van Hattum, M. W. A., & Spakman, W. (2007). *Impact of India-Asia collision on SE Asia: The record in Borneo*. <https://doi.org/10.1016/j.tecto.2007.11.058>
- Hatta, M. (2008). *Dampak Kebakaran Hutan Terhadap Sifat-Sifat Tanah di Kecamatan Besitdang Kabupaten Langkat*. Medan: USU.
- Hirons, M., Beauchamp, E., Whitfield, S., Conway, D., Asare, R., & Malhi, Y. (2020). Resilience to climate shocks in the tropics. *Environmental Research Letters*, 15(10). <https://doi.org/10.1088/1748-9326/abb156>
- Ishikura, K., Yamada, H., Toma, Y., Takakai, F., Morishita, T., Darung, U., Limin, A., Limin, S. H., & Hatano, R. (2017). Effect of groundwater level fluctuation on soil respiration rate of tropical peatland in Central Kalimantan, Indonesia. *Soil Science and Plant Nutrition*, 63(1), 1–13.  
<https://doi.org/10.1080/00380768.2016.1244652>
- Khan, M. F., Hamid, A. H., Rahim, H. A., Maulud, K. N. A., Latif, M. T., Nadzir, M. S. M., Sahani, M., Qin, K., Kumar, P., Varkkey, H., Faruque, M. R. I., Guan, N. C., Ahmadi, S. P., & Yusoff, S. (2020). El Niño driven haze over

- the Southern Malaysian Peninsula and Borneo. *Science of the Total Environment*, 730, 139091. <https://doi.org/10.1016/j.scitotenv.2020.139091>
- Kidd, C., & Huffman, G. (2011). Global precipitation measurement. *Meteorological Applications*, 18(3), 334–353. <https://doi.org/10.1002/met.284>
- Kuswanto, H., Setiawan, D., & Sopaheluwakan, A. (2019). Clustering of Precipitation Pattern in Indonesia Using TRMM Satellite Data. *Engineering, Technology & Applied Science Research*, 9(4), 4484–4489. <https://doi.org/10.48084/ETASR.2950>
- Larasati, B., Kanzaki, M., Purwanto, R. H., & Sadono, R. (2019). Fire Regime in a Peatland Restoration Area: Lesson from Central Kalimantan. *Jurnal Ilmu Kehutanan*, 13(2), 210. <https://doi.org/10.22146/jik.52436>
- M.M Mukaka. (2012). Statistics Corner: A Guide to Appropriate Use of Correlation Coefficient in Medical Research. *Malawi Medical Journal*, 24(3), 69–71. <https://pubmed.ncbi.nlm.nih.gov/23638278/>
- Mcalpine, C. A., Johnson, A., Salazar, A., Syktus, J., Wilson, K., Meijaard, E., Leonie, S., Dargusch, P., Nordin, H., & Sheil, D. (2018). Forest loss and Borneo ' s climate. *Environmental Research Letters*, 13(044009). <https://doi.org/https://doi.org/10.1088/1748-9326/aaa4ff>
- McPhaden, M. J., Santoso, A., & Cai, W. (2020). *Introduction to El Niño Southern Oscillation in a Changing Climate*. <https://doi.org/10.1002/9781119548164.ch1>
- Nurdiati, S., Sopaheluwakan, A., & Septiawan, P. (2021). Spatial and Temporal Analysis of El Niño Impact on Land and Forest Fire in Kalimantan and Sumatra. *Agromet*, 35(1), 1–10. <https://doi.org/10.29244/j.agromet.35.1.1-10>
- Nurkholis, A., Rahma, A. D., Widyaningsih, Y., Maretya, D. A., Wangge, G. A., Widiastuti, A. S., Suci, A., & Abdillah, A. (2018). *Analisis Temporal Kebakaran Hutan dan Lahan di Indonesia Tahun 1997 dan 2015 (Studi Kasus Provinsi Riau)*. 2015. <https://doi.org/10.31227/osf.io/cmzuf>
- Nusantara, R. W., Sudarmadji, Djohan, T. S., & Haryono, E. (2020). Impact of land-use change on soil carbon dynamics in tropical peatland, West Kalimantan- Indonesia. *Indonesian Journal of Geography*, 52(1), 61–68. <https://doi.org/10.22146/IJG.48451>
- Prigent, C. (2010). Precipitation retrieval from space : An overview. *Comptes Rendus - Geoscience*, 342(4–5), 380–389. <https://doi.org/10.1016/j.crte.2010.01.004>
- Ratna, S. B., Cherchi, A., Osborn, T. J., Joshi, M., & Uppara, U. (2021). The Extreme Positive Indian Ocean Dipole of 2019 and Associated Indian Summer Monsoon Rainfall Response. *Geophysical Research Letters*, 48(2), 1–11. <https://doi.org/10.1029/2020GL091497>



- Safri, A. (2021). Rainfall variability study in Kalimantan as an impact of climate change and El Niño. *AIP Conference Proceedings*, 2320. <https://doi.org/10.1063/5.0039480>
- Santika, T., Budiharta, S., Law, E. A., Dennis, R. A., Dohong, A., Struebig, M. J., Gunawan, H., Meijaard, E., & Wilson, K. A. (2020). Interannual climate variation, land type and village livelihood effects on fires in Kalimantan, Indonesia. *Global Environmental Change*, 64(July), 102129. <https://doi.org/10.1016/j.gloenvcha.2020.102129>
- Santika, T., Budiharta, S., Law, E. A., Dennis, R. A., Dohong, A., Struebig, M. J., Medrilzam, Gunawan, H., Meijaard, E., & Wilson, K. A. (2020). Interannual climate variation, land type and village livelihood effects on fires in Kalimantan, Indonesia. *Global Environmental Change*, 64(c), 1–11. <https://doi.org/10.1016/j.gloenvcha.2020.102129>
- Sekaranom, A. B. (2020). *Kejadian Hujan Ekstrem Wilayah Tropis* (H. Prasetyo (ed.); 1st ed.). Gadjah Mada University Press.
- Sekaranom, A. B., & Nurjani, E. (2019). The development of Articulated Weather Generator model and its application in simulating future climate variability. *IOP Conf. Series: Earth and Environmental Science*, 256. <https://doi.org/10.1088/1755-1315/256/1/012044>
- Sekaranom, A. B., Nurjani, E., Harini, R., & Muttaqin, A. S. (2020). Simulation of Daily Rainfall Data using Articulated Weather Generator Model for Seasonal Prediction of ENSO-Affected Zones in Indonesia. *Indonesian Journal of Geography*, 52, 143–153. <https://doi.org/http://dx.doi.org/10.22146/ijg.50862>
- Sekaranom, A. B., Suarma, U., & Nurjani, E. (2020). Climate extremes over the maritime continent and their associations with Madden-Julian Oscillation. *OP Conf. Series: Earth and Environmental Science*, 451. <https://doi.org/10.1088/1755-1315/451/1/012006>
- Singh, M., & Yan, S. (2021). *Spatial–temporal variations in deforestation hotspots in Sumatra and Kalimantan from 2001–2018*. <https://doi.org/10.1002/ece3.7562>
- Sloan, S., Locatelli, B., Wooster, M. J., & Gaveau, D. L. A. (2017). Fire activity in Borneo driven by industrial land conversion and drought during El Niño periods, 1982–2010. *Global Environmental Change*, 47(October), 95–109. <https://doi.org/10.1016/j.gloenvcha.2017.10.001>
- Spessa, A. C., Field, R. D., Pappenberger, F., Langner, A., Englhart, S., Weber, U., Stockdale, T., Siegert, F., Kaiser, J. W., & Moore, J. (2015). Seasonal forecasting of fire over Kalimantan, Indonesia. *Natural Hazards and Earth System Sciences*, 15(3), 429–442. <https://doi.org/10.5194/nhess-15-429-2015>



- Staff, S. S. (2014). *Keys to Soil Taxonomy*. United States Department of Agriculture.
- Sudibyakto, H. A., Gunawan, D., Nurjani, E., & Sekaranom, A. B. (2021). *A Projection on Climate Change Impact towards Meteorological Droughts over Java Island , Indonesia. September 2016.*
- Susilo, G. E., Yamamoto, K., Imai, T., Ishii, Y., Fukami, H., & Sekine, M. (2013). The effect of ENSO on rainfall characteristics in the tropical peatland areas of Central Kalimantan, Indonesia. *Hydrological Sciences Journal*, 58(3), 539–548. <https://doi.org/10.1080/02626667.2013.772298>
- The World Bank. (2016). *Kerugian dari Kebakaran Hutan*. The World Bank.
- West, H., Quinn, N., & Horswell, M. (2019). Remote Sensing of Environment Remote sensing for drought monitoring & impact assessment : Progress , past challenges and future opportunities. *Remote Sensing of Environment*, 232(July), 111291. <https://doi.org/10.1016/j.rse.2019.111291>
- Widiarso, B., Minardi, S., Komariah, Chandra, T. O., Elmahdi, M. A., & Senge, M. (2020). Predicting peatland groundwater table and soil moisture dynamics affected by drainage level. *Sains Tanah*, 17(1), 42–49. <https://doi.org/10.20961/stjssa.v17i1.38459>
- Wösten, J. H. M., Clymans, E., Page, S. E., Rieley, J. O., & Limin, S. H. (2008). Peat-water interrelationships in a tropical peatland ecosystem in Southeast Asia. *Catena*, 73(2), 212–224. <https://doi.org/10.1016/j.catena.2007.07.010>
- Yananto, A., & Dewi, S. (2016a). Analisis Kejadian El Nino Tahun 2015 Dan Pengaruhnya Terhadap Peningkatan Titik Api Di Wilayah Sumatera Dan Kalimantan. *Jurnal Sains & Teknologi Modifikasi Cuaca*, 17(1), 11. <https://doi.org/10.29122/jstmc.v17i1.544>
- Yananto, A., & Dewi, S. (2016b). Analysis of the 2015 El Nino Event and Its Influence on the Increase of Hotspots in Sumatera and Kalimantan. *Jurnal Sains & Teknologi Modifikasi Cuaca*, 17(1), 11–19.