

## DAFTAR PUSTAKA

- Azhim, F., 2017, Kajian Tingkat Bahaya dan Kerentanan Bencana Banjir di Yogyakarta dengan Bantuan Sistem Informasi Geografis, Tugas Akhir, Universitas Muhammadiyah Yogyakarta.
- Barnes, B.S., 1959, Consistency in unitgraphs, *Journal of the Hydraulic Division, Proceedings of the American Society of Civil Engineers*, HY 8, 39-61.
- Boer, R., Baharsjah, J.S., Las, I., dan Pawitan, H, 2003, Analisis kerentanan dan adaptasi terhadap keragaman dan perubahan iklim, dalam Buku Panduan Simposium Meteorologi Pertanian VI: Anomali dan perubahan iklim sebagai peluang untuk meningkatkan hasil perikanan dan ketahanan pangan, PERHIMPI, Bogor.
- Chim, K., Tunncliffe, J., Shamseldin, A., & Kakkada, C., 2020, Identifying future climate change and drought detection using CanESM2 in the upper Siem Reap River, Cambodia, *Dynamics of Atmospheres and Oceans*, 101182.
- Chow, V.T., 1964, *Handbook of Applied Hydrology*, McGraw-Hill Book Company, New York.
- Diaz-Nieto, J., dan Wilby, R.L., 2005, A comparison of statistical downscaling and climate change factor methods: impacts on low flows in the River Thames, United Kingdom, *Climatic Change*, 69(2-3), 245-268.
- Dibike, Y.B., dan Coulibaly, P., 2005, Hydrologic impact of climate change in the Saguenay watershed: Comparison of downscaling methods and hydrologic models, *Journal of Hydrology*, 307(1-4), 145-163.
- Fathulhuda, W.A., 2019, *Pemodelan Prediksi Genangan Banjir dan Visualisasi 3 Dimensi Sungai Gajahwong. Tugas Akhir. Universitas Muhammadiyah Yogyakarta.*
- Fowler, H.J., Blenkinsop, S., dan Tebaldi, C., 2007, Linking climate change modelling to impacts studies: Recent advances in downscaling techniques for hydrological modelling, In *International Journal of Climatology*, 27(12), 1547-1578.
- Gagnon, S., Singh, B., Rousselle, J., dan Roy, L., 2005, An application of the statistical downscaling model (SDSM) to simulate climatic data for streamflow modelling in Québec, *Canadian Water Resources Journal*, 30(4), 297-314.
- Gebremeskel, S., Liu, Y.B., de Smedt, F., Hoffmann, L., dan Pfister, L., 2004, Analysing the effect of climate changes on streamflow using statistically downscaled GCM scenarios, *International Journal of River Basin Management*, 2(4), 271-280.
- Gunawan, D., dan Linarka, U.A., 2011, Penentuan prediktor untuk prediksi curah hujan bulanan menggunakan metode statistical dynamical downscaling, *Jurnal Meteorologi dan Geofisika*, 12(1), 93-102.
- Hassan, Z., Shamsudin, S., dan Harun, S., 2014, Application of SDSM and LARS-WG for simulating and downscaling of rainfall and temperature, *Theoretical and Applied Climatology*, 116(1-2), 243-257.
- Henderson-Sellers, A., dan McGuffie, K., 1987, *A Climate Modelling Primer*, John Wiley & Sons, Chichester.

- Hidayati, D., 2012, Perubahan Iklim: Upaya Peningkatan Pengetahuan dan Adaptasi Petani dan Nelayan Melalui Radio, PT Sarana Komunikasi Utama, Bogor.
- Huang, J., Zhang, J., Zhang, Z., Xu, C., Wang, B., dan Yao, J., 2011, Estimation of future precipitation change in the Yangtze River basin by using statistical downscaling method, *Stochastic Environmental Research and Risk Assessment*, 25(6), 781-792.
- Hussain, M., Yusof, K.W., Mustafa, M.R., Mahmood, R., dan Shaofeng, J., 2017, Projected changes in temperature and precipitation in sarawak state of Malaysia for selected CMIP5 climate scenarios, *International Journal of Sustainable Development and Planning*, 12(8), 1299-1311.
- IPCC, 2000, *Spesial Report on Emissions Scenarios*, Cambridge University Press, Cambridge, United Kingdom.
- IPCC, 2001, *Climate Change 2001: The Scientific Basis. Contribution of Working Group I to the Third Assessment Report of the Intergovernmental Panel on Climate Change* [Houghton, J.T., Y. Ding, D.J. Griggs, M. Noguer, P.J. van der Linden, X. Dai, K. Maskell, and C.A. Johnson (eds.)], Cambridge University Press, Cambridge, United Kingdom and New York.
- IPCC, 2013, *Climate Change 2013: The Physical Science Basis, Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Stocker, T.F., D. Qin, G.-K. Plattner, M. Tignor, S.K. Allen, J. Boschung, A. Nauels, Y. Xia, V. Bex and P.M. Midgley (eds.)], Cambridge University Press, Cambridge, United Kingdom and New York.
- IPCC, 2021, *Climate Change 2021: The Physical Science Basis, Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change*, Cambridge University Press, Cambridge, United Kingdom and New York.
- Karlina, 2013, Analisis Kekeringan Meteorologis di Wilayah Kabupaten Wonogiri, Tesis, Universitas Gajah Mada Yogyakarta.
- Khan, M.S., Coulibaly, P., dan Dibike, Y., 2006, Uncertainty analysis of statistical downscaling methods, *Journal of Hydrology*, 319(1-4), 357-382.
- Linsley, R.K., 1943, Application of the synthetic unit hydrograph in the Western Mountain State, *Transactions of the American Geophysical Union*, 24, 581-587.
- Lydia, E.N., dan Mutia, E., 2015, Penentuan pola agihan hujan tanpa pemisahan, *Jurnal Umum Teknik Terapan*, 2(1), 48-56.
- Mahmood, R., dan Babel, M.S., 2013, Evaluation of SDSM developed by annual and monthly sub-models for downscaling temperature and precipitation in the Jhelum basin, Pakistan and India, *Theoretical and Applied Climatology*, 113(1-2), 27-44.
- Naylor, R.L., Battisti, D.S., Vimont, D.J., Falcon, W.P., dan Burke, M.B., 2007, Assessing risks of climate variability and climate change for Indonesian rice agriculture, *The Proceedings of the National Academy of Sciences*, 104(19), 7752-7757.
- Pichuka, S., dan Maity, R., 2017, Spatio-temporal downscaling of projected precipitation in the 21st century: indication of a wetter monsoon over the Upper Mahanadi Basin, India, *Hydrological Sciences Journal*, 62(3), 467-482.

- Saputra, A.J., 2019, Kajian Hidrologi dan Hidraulika Banjir Akibat Siklon Tropis Badai Cempaka 2017 di DAS Opak Yogyakarta, Tesis, Universitas Gadjah Mada Yogyakarta.
- Servina, Y., 2019, Dampak perubahan iklim dan strategi adaptasi tanaman buah dan sayuran di daerah tropis. *Jurnal Litbang Pertanian*, 38(2), 65-76.
- Sofia, D.A., 2016, Analisis durasi hujan dominan dan pola distribusi curah hujan jam-jaman di wilayah Gunung Merapi. *Jurnal Teknologi Rekayasa*, 1(1), 7-14.
- Sosrodarsono, S., 2003, Hidrologi untuk Pengairan (Cetakan-9), PT. Pradnya Paramita. Jakarta.
- Sri Harto Br., 2009, Hidrologi: Teori, Masalah, Penyelesaiannya, Nafiri, Yogyakarta
- Subarna, D., 2017, Identifikasi perubahan iklim perkotaan (studi kasus Kota Jakarta), Prosiding Seminar Nasional Geografi UMS 2017, 193-206.
- Suripin, dan Hilmi, M., 2015, The lost of Semarang coastal area due to climate change and land subsidence, International Conference on Technique, Development and Management of Delta Area, February 20, 2015, Semarang.
- Suripin dan Kurniani, D., 2016, Pengaruh perubahan iklim terhadap hidrograf banjir di kanal banjir timur Kota Semarang, *Jurnal Media Komunikasi Teknik Sipil*, 22(2), 119-128.
- Triatmodjo, B., 2019, Hidrologi Terapan (Cetakan-7), Beta Offset, Yogyakarta.
- Turyanti, A., 2006, Dampak Pemanasan Global, BMG, Bandung.
- Uvo, C.B., Olsson, J., Morita, O., Jinno, K., Kawamura, A., Nishiyama, K., Koreeda, N., dan Nakashima, T., 2001, Statistical atmospheric downscaling for rainfall estimation in Kyushu Island, Japan, *Hydrology and Earth System Sciences*, 5(2), 259-271.
- Wijanarko, S.R., 2015, Estimasi Limpasan Permukaan Menggunakan Metode Bilangan Kurva Berdasarkan Skenario SRES IPCC A2 dan B2, Tugas Akhir, Universitas Gajah Mada Yogyakarta.
- Wilby, R.L., Dawson, C.W., dan Barrow, E.M., 2002, SDSM-a decision support tool for the assessment of regional climate change impacts, *Environmental Modelling and Software*, 17(2), 145-157.
- Wilby, R.L., Whitehead, P.G., Wade, A.J., Butterfield, D., Davis, R.J., dan Watts, G., 2006, Integrated modelling of climate change impacts on water resources and quality in a lowland catchment: River Kennet, UK. *Journal of Hydrology*, 330(1-2), 204-220.
- Wilby, R.L., dan Dawson, C.W., 2007, SDSM 4.2-A Decision Support Tool for the Assessment of Regional Climate Change Impacts, User Manual, Lancaster University, United Kingdom.
- Wilby, R.L., Charles, S.P., Zorita, E., Timbal, B., Whetton, P., Mearns, L.O., 2009, A review of climate risk information for adaptation and development planning, *Journal of Climatology*, 29, 1193-1215.
- Wilby, R.L., dan Dawson, C.W., 2013, The statistical downscaling model: Insights from one decade of application, *International Journal of Climatology*, 33(7), 1707-1719.



UNIVERSITAS  
GADJAH MADA

**Prediksi Debit Puncak DAS Gajahwong menggunakan Proyeksi Iklim**  
TUTUS PULUNG WIJAYA, Karlina, S.T., M.Eng., Ph.D.; Prof. Ir. Joko Sujono, M.Eng., Ph.D.  
Universitas Gadjah Mada, 2022 | Diunduh dari <http://etd.repository.ugm.ac.id/>

WMO, 2017, *World Meteorological Organization Guidelines on the Calculation of Climate Normals* (WMO-No. 1203), Geneva, Switzerland.