

References

- Alley, W. M. (1984). On the Treatment of Evapotranspiration, Soil Moisture Accounting, and Aquifer Recharge in Monthly Water Balance Models. *Water Resources Research*, 20(8), 1137–1149. <https://doi.org/10.1029/WR020i008p01137>
- Anctil, F., Perrin, C., & Andréassian, V. (2004). Impact of the length of observed records on the performance of ANN and of conceptual parsimonious rainfall-runoff forecasting models. *Environmental Modelling and Software*, 19(4), 357–368. [https://doi.org/10.1016/S1364-8152\(03\)00135-X](https://doi.org/10.1016/S1364-8152(03)00135-X)
- Bárdossy, A. (2007). Calibration of hydrological model parameters for ungauged catchments To cite this version: Calibration of hydrological model parameters for ungauged catchments. *Hydrology and Earth System Sciences*, 11(2), 703–710.
- Blöschl, G., & Sivapalan, M. (1995). Scale issues in hydrological modelling: a review. *Hydrological processes*, 9(3-4), 251-290.
- Boughton, W. C. (2007). Effect of data length on rainfall-runoff modelling. *Environmental Modelling and Software*, 22(3), 406–413. <https://doi.org/10.1016/j.envsoft.2006.01.001>
- Bureau of Meteorology. Good practice Guidelines for Water Data Management Policy (2017).
- Burn, D.H. and M.A.H. Elnur (2002). Detection of hydrologic trends and variability. *Journal of Hydrology*, 255(1): pp. 107–122.
- Caldera, H. P. G. M., Piyathisse, V. R. P. C., & Nandalal, K. D. W. (2016). A Comparison of Methods of Estimating Missing Daily Rainfall Data. *Engineer: Journal of the Institution of Engineers, Sri Lanka*, 49(4).
- Chang, W., & Chen, X. (2018). Monthly Rainfall-Runoff Modeling at Watershed Scale: A Comparative Study of Data-Driven and Theory-Driven Approaches. *Water*, 10(9), 1116.
- Cheng, Y., He, H., Cheng, N., & He, W. (2016). The Effects of Climate and Anthropogenic Activity on Hydrologic Features in Yanhe River.

Advances in Meteorology, 2016, 1–11. <https://doi.org/10.1155/2016/5297158>

- Cunderlik, J. M. (2003). Hydrologic model selection for the CFCAS project: Assessment of Water Resources Risk and Vulnerability to Changing Climatic Conditions October 2003 Prepared by Juraj M . Cunderlik University of Western Ontario, (October).
- Das, T., & Bárdossy, A. (2008). Influence of rainfall observation network on model calibration and application. *Hydrology and Earth System Sciences*, 77–89.
- Electricity Master Plan. (1987). Master Plan for The Electricity Supply of Sri Lanka (Vol. S-1). Colombo, Sri Lanka: Ceylon Electricity Board.
- E.R. Dahmen and M.J. Hall. (1990). Screening of Hydrological Data :
- Gan, T. Y., Dlamini, E. M., & Biftu, G. F. (1997). Effects of model complexity and structure, data quality, and objective functions on hydrologic modeling. *Journal of Hydrology*, 192(1–4), 81–103. [https://doi.org/10.1016/S0022-1694\(96\)03114-9](https://doi.org/10.1016/S0022-1694(96)03114-9)
- Gao, P., Li, P., Zhao, B., Xu, R., Zhao, G., Sun, W., & Mu, X. (2017). Use of double mass curves in hydrologic benefit evaluations. *Hydrological Processes*, 31(26), 4639–4646. <https://doi.org/10.1002/hyp.11377>
- Gleick, P. H. (1987). The development and testing of a water balance model for climate impact assessment: modeling the Sacramento basin. *Water Resources Research*, 23(6), 1049-1061.
- Gu, C., Mu, X., Gao, P., Zhao, G., & Sun, W. (2019). Changes in run-off and sediment load in the three parts of the Yellow River basin, in response to climate change and human activities. *Hydrological Processes*, 33(4), 585–601. <https://doi.org/10.1002/hyp.13345>
- Gupta, H. V., Sorooshian, S., & Yapo, P. (1996). Automatic calibration of conceptual rainfall-runoff sensitivity to calibration data models: *Journal of Hydrology*, 181, 23–48.
- Gupta, V. K., & Sorooshian, S. (1985). The relationship between data and the precision of parameter estimates of hydrologic models. *Journal of Hydrology*, 81(1-2), 57-77.

- Haan, C. T. (1972). A water yield model for small watersheds. *Water Resources Research*, 8(1), 58–69.
- Harlin, J. (1991) Development of a process oriented calibration scheme for the HBV hydrological model. *Nordic Hydrol.* 22(1), 15–36.
- Hughes, D. A. (2004). Incorporating groundwater recharge and discharge functions into an existing monthly rainfall-runoff model. *Hydrological Sciences Journal*, 49(2), 297–312. <https://doi.org/10.1623/hysj.49.2.297.34834>
- James, W. (2005). *Rules for Responsible Modeling-4th Edition*. Retrieved from http://chiwater.com/Files/R184_CHI_Rules.pdf
- Kahya, E. and S. Kalayci (2004). Trend analysis of streamflow in Turkey. *Journal of Hydrology*, 289(2): pp 128–144.
- Keshtegar, B., Allawi, M. F., Afan, H. A., & El-Shafie, A. (2016). Optimized River Stream-Flow Forecasting Model Utilizing High-Order Response Surface Method. *Water resources management*, 30(11), 3899-3914.
- Klemeš, V. (1986). Operational testing of hydrological simulation models. *Hydrological Sciences Journal*, 31:1, 13–24. <https://doi.org/10.1080/02626668609491024>
- Li, C. Z., Wang, H., Liu, J., Yan, D. H., Yu, F. L., & Zhang, L. (2010). Effect of calibration data series length on performance and optimal parameters of hydrological model. *Water Science and Engineering*, 3(4), 378-393.
- Loucks D.P., van Beek E. (2017) *System Sensitivity and Uncertainty Analysis*. In: *Water Resource Systems Planning and Management*. Springer, Cham
- Lü, H., Hou, T., Horton, R., Zhu, Y., Chen, X., Jia, Y., Fu, X. (2013). The streamflow estimation using the Xinanjiang rainfall runoff model and dual state-parameter estimation method. *Journal of Hydrology*, 480, 102–114. <https://doi.org/10.1016/j.jhydrol.2012.12.011>
- Makhlouf, Z., & Michel, C. (1994). A two-parameter monthly water balance model for French watersheds. *Journal of Hydrology*, 162(3-4), 299-318.
- Martin-Carrasco, F., Garrote, L., Iglesias, A., & Mediero, L. (2013). Diagnosing Causes of Water Scarcity in Complex Water Resources Systems and Identifying Risk Management Actions. *Water Resources Management*, 27(6), 1693–1705. <https://doi.org/10.1007/s11269-012-0081-6>

- Michaud, J., & Sorooshian, S. (1994). Comparison of simple versus complex distributed runoff models on a mid-sized semiarid watershed. *Water resources research*, 30(3), 593-605.
- Mohseni, O., & Stefan, H. G. (1998). A monthly streamflow model. *Water Resources Research*, 34(5), 1287-1298.
- Mouelhi, S., Michel, C., Perrin, C., & Andréassian, V. (2006). Stepwise development of a two-parameter monthly water balance model. *Journal of Hydrology*, 318(1-4), 200-214. <https://doi.org/10.1016/j.jhydrol.2005.06.014>
- Murshed, S. B., & Kaluarachchi, J. J. (2018). Scarcity of fresh water resources in the Ganges Delta of Bangladesh. *Water Security*, 4-5(November), 8-18. <https://doi.org/10.1016/j.wasec.2018.11.002>
- Negash, W. (2014). Catchment dynamics and its impact on runoff generation: Coupling watershed modelling and statistical analysis to detect catchment responses. *International Journal of Water Resources and Environmental Engineering*, 6(2), 73-87. <https://doi.org/10.5897/ijwree2013.0449>
- Neter, J., Kutner, M. H., Nachtsheim, C. J., & Wasserman, W. (1996). *Applied linear statistical models* (Vol. 4, p. 318). Chicago: Irwin.
- Nik, A. R. (1988). Water yield changes after forest conversion to agricultural land use in Peninsular Malaysia. *Journal of Tropical Forest Science*, 1(1), 67-84.
- Palmer, W.C., 1965. Meteorologic drought. Res. Pap. U.S. Weather Bur, 45, 58 pp.
- Perrin, C., Oudin, L., Andreassian, V., Rojas-Serna, C., Michel, C., & Mathevet, T. (2007). Impact of limited streamflow data on the efficiency and the parameters of rainfall-runoff models. *Hydrological sciences journal*, 52(1), 131-151.
- Perrin, C., Oudin, L., Andreassian, V., Rojas-Serna, C., Michel, C., & Mathevet, T. (2007). Impact of limited streamflow data on the efficiency and the parameters of rainfall-runoff models. *Hydrological Sciences Journal*, 52(1), 131-151. <https://doi.org/10.1623/hysj.52.1.131>
- Porkka, M., Gerten, D., Schaphoff, S., Siebert, S., & Kummu, M. (2016). Causes and trends of water scarcity in food production. *Environmental Research Letters*, 11(1), 15001. <https://doi.org/10.1088/1748-9326/11/1/015001>

- Presti, R. L., Barca, E., & Passarella, G. (2010). A methodology for treating missing data applied to daily rainfall data in the Candelaro River Basin (Italy). *Environmental monitoring and assessment*, 160(1-4), 1.
- Qi, Z., Kang, G., Chu, C., Qiu, Y., Xu, Z., & Wang, Y. (2017). Comparison of SWAT and GWLF model simulation performance in humid south and semi-arid north of China. *Water (Switzerland)*, 9(8). <https://doi.org/10.3390/w9080567>
- Refsgaard, J. C. (1997). Model and data requirements for simulation of runoff and land surface processes. In *Land Surface Processes in Hydrology* (pp. 423-452). Springer, Berlin, Heidelberg.
- Searcy, J. K., & Hardison, C. H. (1960). Double-Mass Curves, *Manual of Hydrology: part 1. General Surface Water Techniques*, U.S. Geological Survey, Water-Supply Paper 1541-B. United States Government Printing Office, Washington, 66. <http://udspace.udel.edu/handle/19716/1592>
- Sha, J., Liu, M., Wang, D., Swaney, D. P., & Wang, Y. (2013). Application of the ReNuMa model in the Sha He river watershed: Tools for watershed environmental management. *Journal of Environmental Management*, 124, 40–50. <https://doi.org/10.1016/j.jenvman.2013.03.030>
- Shi, P., Zhang, Y., Ren, Z., Yu, Y., Li, P., & Gong, J. (2019). Land-use changes and check dams reducing runoff and sediment yield on the Loess Plateau of China. *Science of the Total Environment*, 664, 984–994. <https://doi.org/10.1016/j.scitotenv.2019.01.430>
- Somorowska, U., & Łaszewski, M. (2019). Quantifying streamflow response to climate variability, wastewater inflow, and sprawling urbanization in a heavily modified river basin. *Science of the Total Environment*, 656, 458–467. <https://doi.org/10.1016/j.scitotenv.2018.11.331>
- Sorooshian, S., Gupta, V. K., & Fulton, J. L. (1983). Evaluation of Maximum Likelihood Parameter Estimation Techniques for and Length on Model Credibility. *Water Resources Research*, 19(1), 251–259. <https://doi.org/10.1029/WR019i001p00251>

- Szolgay, J., Hlavčová, K., Kohnová, S., & Danihlík, R. (2003). Regional estimation of parameters of a monthly water balance model. *Journal of Hydrology and Hydromechanics*, 51, 256–273.
- Thomas, H. A., Improved methods for National Water Assessment, report, contract WR15249270, U.S. Water Resour. Council, Washington, D.C., 1981
- Thornthwaite, C. W., and J. R. Mather, The water balance, Publ. Climatol. Lab. Climatol. Drexel Inst. Technol., 8(1), 1-104, 1955.
- Vandewiele, G. L., & Elias, A. (1995). Monthly water balance of ungauged catchments obtained by geographical regionalization. *Journal of hydrology*, 170(1-4), 277-291.
- Vandewiele, G. L., Xu, C. Y., & Ni-Lar-Win. (1992). Methodology and comparative study of monthly water balance models in Belgium, China and Burma. *Journal of Hydrology*, 134(1–4), 315–347. [https://doi.org/10.1016/0022-1694\(92\)90041-S](https://doi.org/10.1016/0022-1694(92)90041-S)
- Wagner, T., Boyle, D. P., Lees, M. J., Wheeler, H. S., Gupta, H. V., & Sorooshian, S. (2001). A framework for development and application of hydrological models. *Hydrology and Earth System Sciences*, 5(1), 13-26.
- Wakachala, F. M., Shilenje, Z. W., Nguyo, J., Shaka, S., & Apondo, W. (2015). Statistical Patterns of Rainfall Variability in the Great Rift Valley of Kenya. *Journal of Environmental and Agricultural Sciences*, 5(October), 17–26.
- Wang, G., Xia, J., & Che, J. (2009). Quantification of effects of climate variations and human activities on runoff by a monthly water balance model: A case study of the Chaobai River basin in northern China. *Water Resources Research*, 45(7), 1–12. <https://doi.org/10.1029/2007WR006768>
- Wang, Y., & Yao, S. (2019). Effects of restoration practices on controlling soil and water losses in the Wei River Catchment, China: An estimation based on longitudinal field observations. *Forest Policy and Economics*, 100 (November 2018), 120–128. <https://doi.org/10.1016/j.forpol.2018.12.001>
- Wijesekera, N. T. S. (2000). Parameter Estimation in Watershed Model : A Case Study Using Gin Ganga Watershed. The Institution of Engineers, Sri Lanka, 1–Part B, 26–32.

- William W-G. Yeh. (1985). Reservoir Management and Operations Models. *Water Resources Research*, 21(12), 1797–1818. <https://doi.org/10.1029/WR021i012p01797>
- William, J. (2005). Rules for Responsible Modeling.
- World Meteorological Organization (1975)
- Wu, W., May, R. J., Maier, H. R., & Dandy, G. C. (2013). A benchmarking approach for comparing data splitting methods for modeling water resources parameters using artificial neural networks. *Water Resources Research*, 49(11), 7598-7614.
- Xiong, L., & Guo, S. (1999). A two-parameter monthly water balance model and its application. *Journal of Hydrology*, 216(1–2), 111–123. [https://doi.org/10.1016/S0022-1694\(98\)00297-2](https://doi.org/10.1016/S0022-1694(98)00297-2)
- Xu, C. Y., & Singh, V. P. (1998). A review on monthly water balance models for water resources investigations. *Water resources management*, 12(1), 20-50.
- Xu, C. Y., & Vandewiele, G. L. (1994). Sensitivity of monthly rainfall-runoff models to input errors and data length. *Hydrological sciences journal*, 39(2), 157-176.
- Yang, X., Sun, W., Li, P., Mu, X., Gao, P., & Zhao, G. (2018). Reduced sediment transport in the Chinese Loess Plateau due to climate change and human activities. *Science of the Total Environment*, 642, 591–600. <https://doi.org/10.1016/j.scitotenv.2018.06.061>
- Yang, X., Sun, W., Li, P., Mu, X., Gao, P., & Zhao, G. (2019). Integrating agricultural land, water yield and soil conservation trade-offs into spatial land use planning. *Ecological Indicators*, 104(April), 219–228. <https://doi.org/10.1016/j.ecolind.2019.04.082>
- Yapo, P. O., Gupta, H. V., & Sorooshian, S. (1996). Automatic calibration of conceptual rainfall runoff models: sensitivity to calibration data. *Journal of Hydrology*, 181(1-4), 23-48.
- Ye, W., Bates, B. C., Viney, N. R., & Sivapalan, M. (1997). of conceptual RESOURCES Performance of conceptual rainfall-runoff models in low-yielding ephemeral catchments appreciation of the ability to predict

streamflow in these very difficult cases than in humid researched on the relationship between three ernphe.

Zhao, G., Mu, X., Jiao, J., Gao, P., Sun, W., Li, E., Huang, J. (2018). Assessing response of sediment load variation to climate change and human activities with six different approaches. *Science of the Total Environment*, 639, 773–784. <https://doi.org/10.1016/j.scitotenv.2018.05.154>