

REFERENCES

- Acharya, A. (2018). Evaluating the Suitability of Application of Hydrological Models in a Mixed Land Use Watershed. *Journal of Water Management Modeling*, 26 (C456).
- Addor, N., & Melsen, L. A.(2019). Legacy, Rather Than Adequacy, Drives the Selection of Hydrological Models. *Water Resources Research*, 55(1), 378–390.
- Akdogan, Z., & Guven, B. (2016). Assessing the Sensitivity of the SWMM to Variation in Hydrological and Hydraulic Parameters. A Case Study for the City of Istanbul.18 (4), 831 - 841
- Arcement, G. J., & Scheider, V.(1989). Guide for Selecting Manning's Roughness Coefficients for Natural Channels and Flood Plains. USGS.
- Askari, K., & Shayannejad, M. (2016). Flood Routing in Rivers by Muskingum's with new Adjusted Coefficients. *International Water Technology*, 6(3).
- Barati, R., Rahimi, S., & Akbari, G. H. (2012). Analysis of Dynamic Wave Model for Flood Routing in Natural Rivers. *Water Science and Engineering*, 5(3), 243–258.
- Barco, J., Wong, K. M., & Stenstrom, M. K. (2008). Automatic Calibration of the U.S. EPA SWMM Model for a Large Urban Catchment. *Journal of Hydraulic Engineering*, 134(4), 466–474.
- Barco Janet, Wong Kenneth M., & Stenstrom Michael K. (2008). Automatic Calibration of the U.S. EPA SWMM Model for a Large Urban Catchment. *Journal of Hydraulic Engineering*, 134(4), 466–474.
- Baumbach, T., Burckhard, S. R., & Kant, J. (2015). Watershed Modeling Using Arc Hydro Tools. GeoHMS, and HEC-HMS.
- Beling, F. A., Garcia, J. I. B., Paiva, E., Bastos, G. A. P., & Paiva, J. B. D. (2011). Analysis of the SWMM Model Parameters for Runoff Evaluation in Periurban Basins from Southern Brazil. 12nd International Conference on Urban Drainage, 11–16.
- Beven, K. (1997). TOPMODEL: A Critique. *Hydrological Processes*, 11(9), 1069–1085.

- Biancamaria, S., Bates, P. D., Boone, A., & Mognard, N. M. (2009). Large-scale coupled hydrologic and hydraulic modelling of the Ob river in Siberia. *Journal of Hydrology*, 379(1), 136–150.
- Blazkova, S., Beven, K. J., & Kulasova, A. (2002). On constraining TOPMODEL hydrograph simulations using partial saturated area information. *Hydrological Processes*, 16(2), 441–458.
- Boithias, L., Sauvage, S., Lenica, A., Roux, H., Abbaspour, K., Larnier, K., Sánchez-Pérez, J. (2017). Simulating Flash Floods at Hourly Time-Step Using the SWAT Model. *Water*, 9(12), 929.
- Borah Deva K., Arnold Jeffrey G., Bera Maitreyee, Krug Edward C., & Liang Xin-Zhong. (2007). Storm Event and Continuous Hydrologic Modeling for Comprehensive and Efficient Watershed Simulations. *Journal of Hydrologic Engineering*, 12(6), 605–616.
- Bravo J. M., Allasia D., Paz A. R., Collischonn W., & Tucci C. E. M. (2012). Coupled Hydrologic-Hydraulic Modeling of the Upper Paraguay River Basin. *Journal of Hydrologic Engineering*, 17(5), 635–646.
- Butt, M. J., Umar, M., & Qamar, R. (2013). Landslide dam and subsequent dam-break flood estimation using HEC-RAS model in Northern Pakistan. *Natural Hazards*, 65(1), 241–254.
- Cambez, M., & David, L. (2008). Using SWMM 5 in the continuous modelling of stormwater hydraulics and quality. Presented at the 11th International Conference on Urban Drainage.
- Chaudhry, M. H., & SpringerLink. (2008). Open-channel flow. New York: Springer.
- Chen, Y., Li, J., Wang, H., Qin, J., & Dong, L. (2017). Large-watershed flood forecasting with high-resolution distributed hydrological model. *Hydrology and Earth System Sciences*, 21(2), 735–749.
- Chow, V. T., Maidment, D. R., & Mays, L. W. (1988). Applied Hydrology. McGraw-Hill.

Clarke, R. T. (1973). A review of some mathematical models used in hydrology, with observations on their calibration and use. *Journal of Hydrology*, 19(1), 1–20.

Clilverd, H. M., Thompson, J. R., Heppell, C. M., Sayer, C. D., & Axmacher, J. C. (2016). Coupled Hydrological/Hydraulic Modelling of River Restoration Impacts and Floodplain Hydrodynamics: Modelling of River Restoration Impacts. *River Research and Applications*, 32(9), 1927–1948.

Cranmer, A. J., Kouwen, N., & Mousavi, S. F. (2001). Proving WATFLOOD: modelling the nonlinearities of hydrologic response to storm intensities. *Canadian Journal of Civil Engineering*, 28(5), 837–855.

Cunderlink, J. (2003). Hydrologic model selection for the CFCAS project: Assessment of Water Resources Risk and Vulnerability to changing climatic conditions (No. 046). The University of Western Ontario Department of Civil and Environmental Engineering.

D. N. Moriasi, J. G. Arnold, M. W. Van Liew, R. L. Bingner, R. D. Harmel, & T. L. Veith. (2007). Model Evaluation Guidelines for Systematic Quantification of Accuracy in Watershed Simulations. *Transactions of the ASABE*, 50(3), 885–900.

Danish Hydraulic Institute. (2006). MIKE SHE User Manual: Reference Guide.

Demirel, M. C., Booij, M. J., Cluckie, I., Yangbo Chen, Babovic, V., Konikow, L., Savic, D. A. (2009). Identification of an appropriate low flow forecast model for the Meuse River. *Hydroinformatics in Hydrology, Hydrogeology and Water Resources*. IAHS Publ. 331, 296-303.

Devia, G. K., Ganasri, B. P., & Dwarakish, G. S. (2015). A Review on Hydrological Models. *Aquatic Procedia*, 4, 1001–1007.

Diskin, M. H., & Simon, E. (1977). A procedure for the selection of objective functions for hydrologic simulation models. *Journal of Hydrology*, 34(1–2), 129–149.

F. H. Jaber, & S. Shukla. (2012). MIKE SHE: Model Use, Calibration, and Validation. *Transactions of the ASABE*, 55(4), 1479–1489.

Feldman, A. (2010). Hydrologic Modelling System HEC-HMS Technical Reference Manual. Retrieved from US Army Corps of Army Engineers, Hydrologic Engineering Center HEC

Galván, L., Olías, M., Izquierdo, T., Cerón, J. C., & Fernández de Villarán, R. (2014). Rainfall estimation in SWAT: An alternative method to simulate orographic precipitation. *Journal of Hydrology*, 509, 257–265.

Gao, J., Holden, J., & Kirkby, M. (2015). A distributed TOPMODEL for modelling impacts of land-cover change on river flow in upland peatland catchments: A Distributed TOPMODEL to Support Landcover Change Studies. *Hydrological Processes*, 29(13), 2867–2879.

Garrote, L., & Bras, R. L. (1995). A distributed model for real-time flood forecasting using digital elevation models. *Journal of Hydrology*, 167(1–4), 279–306. h

Geetha, K., Mishra, S. K., Eldho, T. I., Rastogi, A. K., & Pandey, R. P. (2008). SCS-CN-based Continuous Simulation Model for Hydrologic Forecasting. *Water Resources Management*, 22(2), 165–190.

Gholami, V., & Mohseni Saravi, M. (2010). Effects of impervious surfaces and urban development on runoff generation and flood hazard in the Hajjighoshan watershed. *Caspian Journal of Environmental Sciences*, 8(1), 1–12.

Gironás, J., Roesner, L. A., Rossman, L. A., & Davis, J. (2010). A new applications manual for the Storm Water Management Model (SWMM). *Environmental Modelling & Software*, 25(6), 813–814.

Goff, K. M., & Gentry, R. W. (2006). The Influence of Watershed and Development Characteristics on the Cumulative Impacts of Stormwater Detention Ponds. *Water Resources Management*, 20(6), 829–860.

Grey, O. P., Webber, D. F. S. G., Setegn, S. G., & Melesse, A. M. (2014). Application of the Soil and Water Assessment Tool (SWAT Model) on a small tropical island (Great River Watershed, Jamaica) as a tool in Integrated Watershed and Coastal Zone Management. *Revista de Biología Tropical*, 62, 293–305.

Grillakis, M. G., Tsanis, I. K., & Koutroulis, A. G. (2010). Application of the HBV hydrological model in a flash flood case in Slovenia. *Natural Hazards and Earth System Science*, 10(12), 2713–2725.

Guo, S., Guo, J., Zhang, J., & Chen, H. (2009). VIC distributed hydrological model to predict climate change impact in the Hanjiang basin. *Science in China Series E: Technological Sciences*, 52(11), 3234.

Halwatura, D., & Najim, M. M. M. (2013). Application of the HEC-HMS model for runoff simulation in a tropical catchment. *Environmental Modelling & Software*, 46, 155–162.

Hamby, D. M. (1994). A review of techniques for parameter sensitivity analysis of environmental models. *Environmental Monitoring and Assessment*, 32(2), 135–154.

Holko, L., & Lepistö, A. (1997). Modelling the hydrological behaviour of a mountain catchment using TOPMODEL. *Journal of Hydrology*, 196(1), 361–377.

Hromadka T. V., & DeVries J. J. (1988). Kinematic Wave Routing and Computational Error. *Journal of Hydraulic Engineering*, 114(2), 207–217.

Hsu, S. M., Ni, C.-F., & Hung, P.-F. (2002). Assessment of Three Infiltration Formulas based on Model Fitting on Richards Equation. *Journal of Hydrologic Engineering*, 7(5), 373–379.

Hwang, S. H., Ham, D. H., & Kim, J. H. (2012). A new measure for assessing the efficiency of hydrological data-driven forecasting models. *Hydrological Sciences Journal*, 57(7), 1257–1274.

Jajarmizad, M., Harun, S., & Salarpour, M. (2012). A Review on Theoretical Consideration and Types of Models in Hydrology. *Journal of Environmental Science and Technology*, 5, 249–261.

Jayadeera, P. M. (2017). Development of a rainfall runoff model for Kalu ganga basin of Sri Lanka using HEC-HMS model. Retrieved <http://dl.lib.mrt.ac.lk/handle/123/12800>

K. W. King, J. G. Arnold, & R. L. Bingner. (1999). Comparison of Green-Ampt and Curve Number methods on Goodwin Creek Watershed using SWAT. *Transactions of the ASAE*, 42(4), 919–926.

Kamali, B., Mousavi, S. J., & Abbaspour, K. C. (2013). Automatic calibration of HEC-HMS using single-objective and multi-objective PSO algorithms. *Hydrological Processes*, 27(26), 4028–4042.

Kanchanamala, D. P. H. M., Herath, H. M. H. K., & Nandalal, K. D. W. (2016). Impact of Catchment Scale on Rainfall Runoff Modeling: Kalu Ganga River Catchment upto Ratnapura. *Engineer: Journal of the Institution of Engineers, Sri Lanka*, 49(2), 1.

Kandel, D. D., Western, A. W., & Grayson, R. B. (2005). Scaling from process timescales to daily time steps: A distribution function approach. *Water Resources Research*, 41(2).

Kannan, N., Santhi, C., Williams, J. R., & Arnold, J. G. (2008). Development of a continuous soil moisture accounting procedure for curve number methodology and its behaviour with different evapotranspiration methods. *Hydrological Processes*, 22(13), 2114–2121.

Kavuncuoglu, H., Kavuncuoglu, E., Karatas, S. M., Benli, B., Sagdic, O., & Yalcin, H. (2018). Prediction of the antimicrobial activity of walnut (*Juglans regia* L.) kernel aqueous extracts using artificial neural network and multiple linear regression. *Journal of Microbiological Methods*, 148, 78–86.

Keig, G., & Mcalpine, J. R. (1969). Watbal: a computer system for the estimation and analysis of soil moisture regimes from simple climatic data.

Kiesel, J., Schmalz, B., Brown, G. L., & Fohrer, N. (2013). Application of a hydrological-hydraulic modelling cascade in lowlands for investigating water and sediment fluxes in catchment, channel and reach. *Journal of Hydrology and Hydromechanics*, 61(4), 334–346.

Kobold, M., & Brilly, M. (2006). The use of HBV model for flash flood forecasting. *Natural Hazards and Earth System Science*, 6(3), 407–417.

Koch, R. W., & Kekhia, F. (1987). Effect of rainfall intensity distribution on excess precipitation. Presented at the Engineering Hydrology Conference, A Symposium, Williamsburg Hilton National Conference Center, Williamsburg, Virginia, United States, ASCE.

Komi, Kossi, Neal, J., Trigg, M., & Diekruger, B. (2017). Modelling of flood hazard extent in data sparse areas: a case study of the Oti River basin, West Africa. *Journal of Hydrology: Regional Studies*, 10, 122–132.

Kouwen, N. (2014). WATFLOOD / WATROUTE Hydrological Model Routing & Flow Forecasting System. Ontario, Canada: University of Waterloo.

Krause, P., Boyle, D. P., & Bäse, F. (2005). Comparison of different efficiency criteria for hydrological model assessment. *Advances in Geosciences*, 5, 89–97.

Krishnaveni, M., & Rajeswari, A. (2019). Flow Routing and Surface Water Balance Simulation of a Tank Cascaded Catchment Using Coupled MIKE SHE/MIKE 11 Modeling. *Journal of The Institution of Engineers (India): Series A*, 100(1), 65–74.

Lenhart, T., Eckhardt, K., Fohrer, N., & Frede, H.-G. (2002). Comparison of two different approaches of sensitivity analysis. *Physics and Chemistry of the Earth, Parts A/B/C*, 27(9–10), 645–654.

Lévesque, Étienne, Anctil, F., Van Griensven, A., & Beauchamp, N. (2008). Evaluation of streamflow simulation by SWAT model for two small watersheds under snowmelt and rainfall. *Hydrological Sciences Journal*, 53(5), 961–976.

Li, C., Qi, J., Feng, Z., Yin, R., Zou, S., & Zhang, F. (2010). Parameters optimization based on the combination of localization and auto-calibration of SWAT model in a small watershed in Chinese Loess Plateau. *Frontiers of Earth Science in China*, 4(3), 296–310.

Li, J. (2017). Assessing the accuracy of predictive models for numerical data, 12(8).

Li, Z., Liu, H.-Y., & Li, Y. (2012). Review on HSPF model for simulation of hydrology and water quality processes, 33(7), 2217–2223.

Liebmann, B., & Allured, D. (2005). Daily Precipitation Grids for South America. *Bulletin of the American Meteorological Society*, 86(11), 1567–1570.

- Lin, S.-S., Liao, Y.-P., Hsieh, S.-H., Kuo, J.-T., & Chen, Y.-C. (2010). A pattern-oriented approach to development of a real-time storm sewer simulation system with an SWMM model. *Journal of Hydroinformatics*, 12(4), 408–423.
- Lohmann, D., Raschke, E., Nijssen, B., & Lettenmaier, D. P. (1998). Regional scale hydrology: I. Formulation of the VIC-2L model coupled to a routing model. *Hydrological Sciences Journal*, 43(1), 131–141.
- Madsen, H. (2000). Automatic calibration of a conceptual rainfall–runoff model using multiple objectives. *Journal of Hydrology*, 235(3–4), 276–288.
- Marshall, L., Nott, D., & Sharma, A. (2005). Hydrological model selection: A Bayesian alternative: Hydrological model selection. *Water Resources Research*, 41(10).
- Masih, I., Maskey, S., Uhlenbrook, S., & Smakhtin, V. (2011). Assessing the Impact of Areal Precipitation Input on Streamflow Simulations Using the SWAT Model. *JAWRA Journal of the American Water Resources Association*, 47(1), 179–195.
- McCuen, R. H. (1973). The role of sensitivity analysis in hydrologic modeling. *Journal of Hydrology*, 18(1), 37–53.
- McCuen, R. H. (2016). *Hydrologic Analysis and Design* (4 edition). Boston: Pearson.
- Mishra, A., Kar, S., & Singh, V. P. (2007). Determination of runoff and sediment yield from a small watershed in sub-humid subtropics using the HSPF model. *Hydrological Processes*, 21(22), 3035–3045.
- Mishra, S. K., Tyagi, J. V., & Singh, V. P. (2003). Comparison of infiltration models. *Hydrological Processes*, 17(13), 2629–2652.
- Monte, B., Costa, D., Chaves, M., Magalhães, L., & Uvo, C. (2016). Hydrological and hydraulic modelling applied to the mapping of flood-prone areas, 21(1), 152–167.
- Moradkhani, H., & Sorooshian, S. (2009). General Review of Rainfall-Runoff Modeling: Model Calibration, Data Assimilation, and Uncertainty Analysis. In *Water Science and Technology Library. Hydrological Modelling and the Water Cycle* (pp. 1–24).

Moynihan, K., & Vasconcelos, J. (2014). SWMM Modeling of a Rural Watershed in the Lower Coastal Plains of the United States. *Journal of Water Management Modeling*.

Mwendera, E. J., & Feyen, J. (1992). Estimation of depression storage and Manning's resistance coefficient from random roughness measurements. *Geoderma*, 52(3–4), 235–250.

Nash, J. E., & Sutcliffe, J. V. (1970). River flow forecasting through conceptual models part I — A discussion of principles. *Journal of Hydrology*, 10(3), 282–290.

Neitsch, S. L., Arnold, J. G., Kiriny, J. R., Srinivasan, R., & Williams, J. R. (2002). Soil and Water Assessment Tool User Manual [Manual]. USDA Agricultural Research Service.

Nicolle, P., Pushpalatha, R., Perrin, C., François, D., Thiéry, D., Mathevet, T., ... Morice, E. (2014). Benchmarking hydrological models for low-flow simulation and forecasting on French catchments. *Hydrology and Earth System Sciences*, 18(8), 2829–2857.

Nishat, S., Guo, Y., & Baetz, B. W. (2007). Development of a simplified continuous simulation model for investigating long-term soil moisture fluctuations. *Agricultural Water Management*, 92(1–2), 53–63.

Oleyiblo, J. O., & Li, Z. (2010). Application of HEC-HMS for flood forecasting in Misai and Wan'an catchments in China. *Water Science and Engineering*, 3(1), 14–22.

Olivera, F., Valenzuela, M., Srinivasan, R., Choi, J., Cho, H., Koka, S., & Agrawal, A. (2006). Arcgis-Swat: A Geodata Model and Gis Interface for Swat1. *JAWRA Journal of the American Water Resources Association*, 42(2), 295–309.

Onyutha, C. (2016). Influence of Hydrological Model Selection on Simulation of Moderate and Extreme Flow Events: A Case Study of the Blue Nile Basin.

Ozdemir, A., & Leloglu, U. M. (2018). A fast and automated hydrologic calibration tool for SWAT. *Water and Environment Journal*.

Perry, M., & Hollis, D. (2005). The generation of monthly gridded datasets for a range of climatic variables over the UK. *International Journal of Climatology*, 25(8),

Ponce Victor M. (1991). Kinematic Wave Controversy. *Journal of Hydraulic Engineering*, 117(4), 511–525.

Ramesh, R., Datta, B., Bhallamudi, S. M., & Narayana, A. (2000). Optimal Estimation of Roughness in Open-Channel Flows. *Journal of Hydraulic Engineering*, 126(4), 299–303.

Rawls, W. (1976). Calibration of selected infiltration equations for the Georgia Coastal Plain. *Agricultural Research Service*, U.S. Dept. of Agriculture.

Risley, J., Stonewall, A., & Haluska, T. (2009). Estimating Flow-Duration and Low-Flow Frequency Statistics for Unregulated Streams in Oregon .

Rosa, D. J., Clausen, J. C., & Dietz, M. E. (2015). Calibration and Verification of SWMM for Low Impact Development. *JAWRA Journal of the American Water Resources Association*, 51(3), 746–757.

Rossman, L. A., & Huber, W. (2016a). Storm Water Management Model Reference Manual Volume I, Hydrology.

Sandu, M.-A., & Virsta, A. (2015). Applicability of MIKE SHE to Simulate Hydrology in Argesel River Catchment. *Agriculture and Agricultural Science Procedia*, 6, 517–524.

Singh, V. P., & McCann, R. C. (1980). Some notes on Muskingum method of flood routing. *Journal of Hydrology*, 48(3), 343–361.

Skhakhfa, I. D., & Ouerdachi, L. (2016). Hydrological modelling of wadi Ressoul watershed, Algeria, by HEC-HMS model. *Journal of Water and Land Development*, 31.

Skotnicki, M., & Sowiński, M. (2015). The influence of depression storage on runoff from impervious surface of urban catchment. *Urban Water Journal*, 12(3), 207–218.

Şorman, A. A., Şensoy, A., Tekeli, A. E., Şorman, A. Ü., & Akyürek, Z. (2009). Modelling and forecasting snowmelt runoff process using the HBV model in the eastern part of Turkey. *Hydrological Processes*, 23(7), 1031–1040.

Soulis, K. X., & Valiantzas, J. D. (2012). SCS-CN parameter determination using rainfall-runoff data in heterogeneous watersheds – the two-CN system approach. *Hydrology and Earth System Sciences*, 16(3), 1001–1015.

Surfleet, C. G., Tullos, D., Chang, H., & Jung, I.-W. (2012). Selection of hydrologic modeling approaches for climate change assessment: A comparison of model scale and structures. *Journal of Hydrology*, 464–465, 233–248.

Suriya, S., & Mudgal, B. V. (2012). Impact of urbanization on flooding: The Thirusoolam sub watershed – A case study. *Journal of Hydrology*, 412–413, 210–219.

Thakur Balbhadra, Parajuli Ranjan, Kalra Ajay, Ahmad Sajjad, & Gupta Ritu. (2017). Coupling HEC-RAS and HEC-HMS in Precipitation Runoff Modelling and Evaluating Flood Plain Inundation Map. World Environmental and Water Resources Congress 2017, 240–251.

Thapa, G., & Wijeskera, S. (2016). Computation and Optimization of Snyder’s Synthetic Unit Hydrograph Parameters.

Thompson, J. R., Sørensen, H. R., Gavin, H., & Refsgaard, A. (2004). Application of the coupled MIKE SHE/MIKE 11 modelling system to a lowland wet grassland in southeast England. *Journal of Hydrology*, 293(1), 151–179.

Tscheikner-Gratl, F., Zeisl, P., Kinzel, C., Leimgruber, J., Ertl, T., Rauch, W., & Kleidorfer, M. (2016). Lost in calibration: why people still do not calibrate their models, and why they still should – a case study from urban drainage modelling. *Water Science and Technology*, 74(10), 2337–2348.

Tsihrintzis, V. A., & Hamid, R. (1998). Runoff quality prediction from small urban catchments using SWMM. *Hydrological Processes*, 12(2), 311–329.

Tuo, Y., Duan, Z., Disse, M., & Chiogna, G. (2016). Evaluation of precipitation input for SWAT modeling in Alpine catchment: A case study in the Adige river basin (Italy). *Science of The Total Environment*, 573, 66–82.

Unduche, F., Tolossa, H., Senbeta, D., & Zhu, E. (2018). Evaluation of four hydrological models for operational flood forecasting in a Canadian Prairie watershed. *Hydrological Sciences Journal*, 63(8), 1133–1149.

Wanniarachchi, S. S. (2013). Mathematical Modelling of Watershed Runoff Coefficient for Reliable Estimations to meet the Future Challenges of Water Resources Development in Sri Lanka. *Engineer: Journal of the Institution of Engineers, Sri Lanka*, 46(2).

Warwick, J. J., & Tadepalli, P. (1991). Efficacy of SWMM Application. *Journal of Water Resources Planning and Management*, 117(3), 352–366.

Weinman, P., & Laurensen, M. (1979). Approximate Flood Routing Methods: A Review. *ASCE*, 105(12), 1521–1536.

Wijesekera, N. T. S., & Rajapakse, R. L. H. L. (2013). Mathematical modelling of watershed wetland crossings for flood mitigation and groundwater enhancement – case of the Attanagalu Oya river basin. *Engineer: Journal of the Institution of Engineers, Sri Lanka*, 46(3).

Wijesekera, S. N. (2018). Classification of Streamflow Observations for Water Management.

WMO. (1965). Guide to Hydrometeorological Practices. Secretariat of the World Meteorological Organization.

Xi Jin, Wenyan Wu, Ying-he Jiang, & Jian-hua Jin. (2011, May). Automatic calibration of SWMM model with adaptive genetic algorithm. 891–895.

Xia, Y., Mocko, D. M., Wang, S., Pan, M., Kumar, S. V., Peters-Lidard, C. D., ... Ek, M. B. (2018). Comprehensive Evaluation of the Variable Infiltration Capacity (VIC) Model in the North American Land Data Assimilation System. *Journal of Hydrometeorology*, 19(11), 1853–1879.

Yapo, P. O., Gupta, H. V., & Sorooshian, S. (1998). Multi-objective global optimization for hydrologic models. *Journal of Hydrology*, 204(1), 83–97.

Yatagai, A., Xie, P., & Alpert, P. (2008). Development of a daily gridded precipitation data set for the Middle East. *Advances in Geosciences*, 12, 165–170.

Yates, D. N. (1996). WatBal: An Integrated Water Balance Model for Climate Impact Assessment of River Basin Runoff. *International Journal of Water Resources Development*, 12(2), 121–140.

Zaghloul, N. A. (1983). Sensitivity analysis of the SWMM Runoff-Transport parameters and the effects of catchment discretisation. *Advances in Water Resources*, 6(4), 214–223.

Zhang, X., & Bao, W. (2012). Modified Saint-Venant equations for flow simulation in tidal rivers. *Water Science and Engineering*, 5(1), 34–45.

Zhang, Y. (2005). Simulation of open channel network flows using finite element approach. *Communications in Nonlinear Science and Numerical Simulation*, 10(5), 467–478.