`

REFERENCES

Abbott, M. B., Bathurst, J. C., Cunge, J. A., O'Connell, P. E., & Rasmussen, J. (1986). An introduction to the European Hydrological System - Systeme Hydrologique Europeen, "SHE", 1: History and philosophy of a physically-based, distributed modelling system. *Journal of Hydrology*, *87*(1–2), 45–59. https://doi.org/10.1016/0022-1694(86)90114-9

Ahbari, A., Stour, L., Agoumi, A., & Serhir, N. (2018). Estimation of initial values of the HMS model parameters: application to the basin of Bin El Ouidane (Azilal, Morocco). *Journal of Materials and Environmental Sciences*, *9*(1), 305–317. https://doi.org/10.26872/jmes.2018.9.1.34

Ali, K., Bajracharyar, R. M., & Raut, N. (2017). Advances and Challenges in Flash Flood Risk Assessment: A Review. *Journal of Geography & Natural Disasters*, *07*(02). https://doi.org/10.4172/2167-0587.1000195

Arlen D. Feldman. (2000). Hydrologic Modeling System Technical Reference Manual. *Computer Software Technical Reference Manual*, (March), 145. Retrieved from https://www.hec.usace.army.mil/software/hec-hms/documentation/HEC-HMS_Technical Reference Manual_(CPD-74B).pdf

Arnold, J., Moriasi, D., Gassman, P., & White, M. J. (2012). SWAT: Model use, calibration, and validation. *American Society of Agricultural and Biological Engineers*, *55*(4), 1491–1508. https://doi.org/10.13031/2013.42256

Asadi, A., & Boustani, F. (2013). Performance Evaluation of the HEC-HMS Hydrologic Model for Lumped and Semi-distributed Stormflow Simulation (Study Area : Delibajak Basin). *American Journal of Engineering Research (AJER)*, *02*(11), 115–121.

Asian Disaster Reduction Center. (2009). *Comprehensive Study on Disaster Management in Sri Lanka*.

Bárdossy, A. (2007a). Calibration of hydrological model parameters for ungauged catchments. *Hydrology and Earth System Sciences*, *11*(2), 703–710. https://doi.org/10.5194/hess-11-703-2007

Bárdossy, A. (2007b). Calibration of hydrological model parameters for ungauged catchments. *Hydrology and Earth System Sciences*, *11*(2), 703–710. https://doi.org/10.5194/hess-11-703-2007

Bathurst, J. C., Ewen, J., Parkin, G., O'Connell, P. E., & Cooper, J. D. (2004). Validation of catchment models for predicting land-use and climate change impacts. 3. Blind validation for internal and outlet responses. *Journal of Hydrology*, *287*(1–4), 74–94. https://doi.org/10.1016/j.jhydrol.2003.09.021

Bennett, T. H. (1998). *Development and application of a continuous soil moisture accounting algorithm for the Hydrologic Engineering Center Hydrologic Modeling System (HEC-HMS)* (M.S. University of California, Davis). Retrieved from https://www.worldcat.org/title/development-and-application-of-a-

`

continuous-soil-moisture-accounting-algorithm-for-the-hydrologic-engineering-center-hydrologic-modeling-system-hec-hms/oclc/42712111

Berthet, L., Andréassian, V., Perrin, C., & Javelle, P. (2009). How crucial is it to account for the antecedent moisture conditions in flood forecasting? Comparison of event-based and continuous approaches on 178 catchments. *Hydrology and Earth System Sciences*, *13*(6), 819–831. https://doi.org/10.5194/hess-13-819-2009

Beven, K., & Freer, J. (2001). Equifinality, data assimilation, and uncertainty estimation in mechanistic modelling of complex environmental systems using the GLUE methodology. *Journal of Hydrology*, *249*(1–4), 11–29. https://doi.org/10.1016/S0022-1694(01)00421-8

Brassel, K. E., & Reif, D. (1979). A Procedure to Generate Thiessen Polygons. *Geographical Analysis*, *11*(3), 289–303. https://doi.org/10.1111/j.1538-4632.1979.tb00695.x

Burges, S. J. (2011). *Process representation, measurements, data quality, and criteria for parameter estimation of watershed models*. https://doi.org/10.1029/ws006p0283

Chandra, S. P. O., Rao, Y. S., András, B., Tian, C. Z., & Chih-Ming, K. (2000). Sustainable water resources management. In *Water International* (Vol. 25). https://doi.org/10.1080/02508060008686793

Chaplot, V., Saleh, A., & Jaynes, D. B. (2005). Effect of the accuracy of spatial rainfall information on the modeling of water, sediment, and NO3-N loads at the watershed level. *Journal of Hydrology*, *312*(1–4), 223–234. https://doi.org/10.1016/j.jhydrol.2005.02.019

Cheng, Q., Ko, C., Yuan, Y., Ge, Y., & Zhang, S. (2006). GIS modeling for predicting river runoff volume in ungauged drainages in the Greater Toronto Area, Canada. *Computers and Geosciences*, *32*(8), 1108–1119. https://doi.org/10.1016/j.cageo.2006.02.005

Chow, V. Te, Maidment, D. R., & Mays, L. W. (1988). *Applied Hydrology*. McGraw-Hill, Inc.

Chu, X., & Steinman, A. (2009). Event and continuous hydrologic modeling with HEC-HMS. *Journal of Irrigation and Drainage Engineering*, *135*(1), 119–124. https://doi.org/10.1061/(ASCE)0733-9437(2009)135:1(119)

Croke, B. F. W., Merritt, W. S., & Jakeman, A. J. (2004). A dynamic model for predicting hydrologic response to land cover changes in gauged and ungauged catchments. *Journal of Hydrology*, *291*(1–2), 115–131. https://doi.org/10.1016/j.jhydrol.2003.12.012

Curtis, D. H. (2017). Plant-Water Interaction. In *International Encyclopedia of Geography* (Vol. 15, p. 8464). Retrieved from https://books.google.lk/books?id=gfYoDwAAQBAJ&pg=PT593&dq=canopy+storage&hl=en&sa=X&ved=0ahUKEwjCtKSC99zlAhVZILcAHdzgBuMQ6AE

`

IRzAE#v=onepage&q=canopy storage&f=false

Daggupati, P., Pai, N., Ale, S., Douglas-Mankin, K. R., Zeckoski, R. W., Jeong, J., … Youssef, M. A. (2015). A recommended calibration and validation strategy for hydrologic and water quality models. *Transactions of the ASABE*, *58*(6), 1705–1719. https://doi.org/10.13031/trans.58.10712

Dahrshaka Weragoda, A. (1998). *A comparison of SCS runoff prediction methods for two large watersheds in Sri Lanka* (University of Nevada). Retrieved from https://digitalscholarship.unlv.edu/rtds

De Silva, M., Weerakoon, S., & Herath, S. (2014). Modeling of event and continuous flow hydrographs with HEC-HMS: Case study in the Kelani River basin, Sri Lanka. *Journal of Hydrologic Engineering*, *19*(4), 800–806. https://doi.org/10.1061/(ASCE)HE.1943-5584.0000846

De Silva, R. P., Dayawansa, N. D. K., & Ratnasiri, M. D. (2007). A comparison of methods used in estimating missing rainfall data. *Journal of Agricultural Sciences*, *3*(2), 101. https://doi.org/10.4038/jas.v3i2.8107

Devia, G. K., Ganasri, B. P., & Dwarakish, G. S. (2015). A Review on Hydrological Models. *Aquatic Procedia*, *4*(Icwrcoe), 1001–1007. https://doi.org/10.1016/j.aqpro.2015.02.126

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. https://doi.org/10.1016/0022-1694(77)90066-X

Duan, Q., Schaake, J., & Koren, V. (2011). A Priori estimation of land surface model parameters. In S. J. Venkataraman Lakshmi, Albertson John (Ed.), *Water Science and Application* (pp. 77–94). https://doi.org/10.1029/ws003p0077

Elkaduwa, W. K. B., & Sakthivadivel, R. (1999). Use of Historical Data as a Decision Support Tool in Watershed Management: A Case Study of the Upper Nilwala Basin in Sri Lanka. In *International Water Management Institute*. Retrieved from https://books.google.lk/books?id=Wnp43jePLAMC&pg=PA6&dq=nilwala+bas in&hl=en&sa=X&ved=0ahUKEwiLw6fcucPlAhUC3xoKHbYmDb8Q6AEIJzA A#v=snippet&q=runoff nilwala&f=false

Ewen, J., & Parkin, G. (1996). Validation of catchment models for predicting land-use and climate change impacts. 1.Method. *Journal of Hydrology*, *175*, 583–594. https://doi.org/10.1016/j.jhydrol.2003.09.021

Fernandez, W., Vogel, R. M., & Sankarasubramanian, A. (2000). Calage régional d'un modèle de bassin hydrologique. *Hydrological Sciences Journal*, *45*(5), 689–707. https://doi.org/10.1080/02626660009492371

Fleming, M., & Neary, V. (2004). Continuous hydrologic modeling study with the Hydrologic Modeling System. *Journal of Hydrologic Engineering*, *9*(3), 175–183. https://doi.org/10.1061/(ASCE)1084-0699(2004)9:3(175)

Gan, T. Y., & Biftu, G. F. (1996). Automatic Calibration of Conceptual Rainfall-

`

Runoff Models: Optimization Algorithms, Catchment Conditions, and Model Structure. *Water Resources Research*, *32*(12), 3513–3524. https://doi.org/10.1029/95WR02195

Gan, T. Y., & Burges, S. J. (2006). Assessment of soil-based and calibrated parameters of the Sacramento model and parameter transferability. *Journal of Hydrology*, *320*(1–2), 117–131. https://doi.org/10.1016/j.jhydrol.2005.07.008

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

Gao, P., Li, P., Zhao, | Baili, Xu, R., Zhao, G., Sun, W., & Mu, X. (2017). *Use of double mass curves in hydrologic benefit evaluations*. https://doi.org/10.1002/hyp.11377

Garcia, F., Folton, N., & Oudin, L. (2017). Which objective function to calibrate rainfall–runoff models for low-flow index simulations? *Hydrological Sciences Journal*, *62*(7), 1149–1166. https://doi.org/10.1080/02626667.2017.1308511

Gebre, S. L. (2015). Application of the HEC-HMS Model for Runoff Simulation of Upper Blue Nile River Basin. *Journal of Waste Water Treatment & Analysis*, *06*(02). https://doi.org/10.4172/2157-7587.1000199

Gumindoga, W., Rwasoka, D. T., Nhapi, I., & Dube, T. (2017a). Ungauged runoff simulation in Upper Manyame Catchment, Zimbabwe: Application of the HEC-HMS model. *Physics and Chemistry of the Earth*, *100*, 371–382. https://doi.org/10.1016/j.pce.2016.05.002

Gumindoga, W., Rwasoka, D. T., Nhapi, I., & Dube, T. (2017b). Ungauged runoff simulation in Upper Manyame catchment, ZImbabwe: Applications of the HEC-HMS model. *Physics and Chemistry of the Earth*, *100*, 371–382. https://doi.org/10.1016/j.pce.2016.05.002

Gupta, H. V., Sorooshian, S., & Yapo, P. O. (1998). Toward improved calibration of hydrologic models: Multiple and noncommensurable measures of information. *Water Resources Research*, *34*(4), 751–763. https://doi.org/10.1029/97WR03495

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. https://doi.org/10.1016/0022-1694(85)90167-2

Gupta, H. V, Beven, K. J., & Wagener, T. (2005). Model Calibration and Uncertainty. In *Encyclopedia of Hydrological Sciences* (pp. 1–17). Retrieved from http://onlinelibrary.wiley.com/book/10.1002/0470848944

Gyawali, R., & Watkins, D. W. (2013). Continuous hydrologic modeling of snow-affected watersheds in the great lakes basin using HEC-HMS. *Journal of Hydrologic Engineering*, *18*(1), 29–39. https://doi.org/10.1061/(ASCE)HE.1943-5584.0000591

`

Hall, R. L., Calder, I. R., Gunawardena, E. R. N., & Rosier, P. T. W. (1996). Dependence of rainfall interception on drop size: 3. Implementation and comparative performance of the stochastic model using data from a tropical site in Sri Lanka. *Journal of Hydrology*, *185*(1–4), 389–407. https://doi.org/10.1016/0022-1694(95)03000-X

Halwatura, D., & Najim, M. M. M. (2013). Application of the HEC-HMS model for runoff simulation in a tropical catchment. *Environmental Modelling and Software*, *46*, 155–162. https://doi.org/10.1016/j.envsoft.2013.03.006

Hansen, C., Shafiei Shiva, J., McDonald, S., & Nabors, A. (2019). Assessing Retrospective National Water Model Streamflow with Respect to Droughts and Low Flows in the Colorado River Basin. *Journal of the American Water Resources Association*, *55*(4), 964–975. https://doi.org/10.1111/1752-1688.12784

He, Y., Bárdossy, A., & Zehe, E. (2011). A review of regionalisation for continuous streamflow simulation. *Hydrology and Earth System Sciences*, *15*(11), 3539–3553. https://doi.org/10.5194/hess-15-3539-2011

Heuvelmans, G., Muys, B., & Feyen, J. (2004). Evaluation of hydrological model parameter transferability for simulating the impact of land use on catchment hydrology. *Physics and Chemistry of the Earth*, *29*(11-12 SPEC. ISS.), 739–747. https://doi.org/10.1016/j.pce.2004.05.002

Hong, Y., & Jonathan, J. G. (2014). *Radar Hydrology: Principles, Models, and Applications - Yang Hong, Jonathan J. Gourley - Google Books*. Retrieved from https://books.google.lk/books?id=gFXOBQAAQBAJ&pg=PA135&dq=warm+up+hydrologic+model&hl=en&sa=X&ved=0ahUKEwiChqyBzvXlAhVBfX0KHQgSBwkQ6AEIJzAA#v=onepage&q=warm up &f=false

Huard, D., & Mailhot, A. (2008). Calibration of hydrological model GR2M using Bayesian uncertainty analysis. *Water Resources Research*, *44*(2), 1–19. https://doi.org/10.1029/2007WR005949

Hughes, D. A. (1995). Monthly rainfall-runoff models applied to arid and semiarid catchments for water resource estimation purposes. *Hydrological Sciences Journal*, *40*(6), 751–769. https://doi.org/10.1080/02626669509491463

Hunukumbura, P. B., Tachikawa, Y., & Shiiba, M. (2012). Distributed hydrological model transferability across basins with different hydro-climatic characteristics. *Hydrological Processes*, *26*(6), 793–808. https://doi.org/10.1002/hyp.8294

International Sava River Basin Commission. (2017). *Sava River Basin Flood Study : HEC-HMS Technical Documentation Report*.

Jayadeepa, P. M. (2016). *Development of a rainfall runoff model for Kalu Ganga Basin of Sri Lanka using HEC HMS Model*. University of Moratuwa.

Johnston, P. R., & Pilgrim, D. H. (1976). Parameter Optimization for Watershed Models. *Water Resources Research*, *12*(3), 477–486.

`

Juraj, M. C., & Slobodan, P. S. (2004). Calibration, verification and sensitivity analysis of HEC-HMS Model; Assessment of water resources risk and vulnerability to changing climatic conditions. In *CFCAS*.

Kamali, B., Mousavi, S. J., & Abbaspor, K. C. (2012). Automatic calibration of HEC-HMS using single-objective and multi-objective PSO algorithms. *Hydrological Processes*. https://doi.org/10.1002/hyp

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. https://doi.org/10.4038/engineer.v49i2.7003

Kim, K. B., Kwon, H. H., & Han, D. (2018). Exploration of warm-up period in conceptual hydrological modelling. *Journal of Hydrology*, *556*(November), 194–210. https://doi.org/10.1016/j.jhydrol.2017.11.015

Kim, U., & Kaluarachchi, J. J. (2008). Application of parameter estimation and regionalization methodologies to ungauged basins of the Upper Blue Nile River Basin, Ethiopia. *Journal of Hydrology*, *362*(1–2), 39–56. https://doi.org/10.1016/j.jhydrol.2008.08.016

Kodippili, T. (2019). *Influence of Station Density and Interpolation Methods on Spatial Averaging of Rainfall for Influence of Station Density and Interpolation Methods on Spatial Averaging of Rainfall for*.

Kokkonen, T., Koivusalo, H., & Karvonen, T. (2001). A semi-distributed approach to rainfall-runoff modelling - A case study in a snow affected catchment. *Environmental Modelling and Software*, *16*(5), 481–493. https://doi.org/10.1016/S1364-8152(01)00028-7

Legates, D. R., & Jr, G. J. M. (1999). Evaluating the Use Of " Goodness-of-Fit " Measures in Hydrologic and Hydroclimatic Model Validation Evaluating the use of " goodness-of-fit " measures in hydrologic and hydroclimatic model validation. *Water Resources Research*, *35*(1), 233–241. https://doi.org/10.1029/1998WR900018

Li, H., Zhang, Y., Chiew, F. H. S., & Xu, S. (2009). Predicting runoff in ungauged catchments by using Xinanjiang model with MODIS leaf area index. *Journal of Hydrology*, *370*(1–4), 155–162. https://doi.org/10.1016/j.jhydrol.2009.03.003

Lo Presti, R., 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), 1–22. https://doi.org/10.1007/s10661-008-0653-3

Loukas, A., & Vasiliades, L. (2014). Streamflow simulation methods for ungauged and poorly gauged watersheds. *Natural Hazards and Earth System Sciences*, *14*(7), 1641–1661. https://doi.org/10.5194/nhess-14-1641-2014

Madsen, H. (2003). Parameter estimation in distributed hydrological catchment modelling using automatic calibration with multiple objectives. *Advances in*

`

Water Resources, *26*(2), 205–216. https://doi.org/10.1016/S0309-1708(02)00092-1

Majidi, A., & Shahedi, K. (2012). Simulation of Rainfall-Runoff Process Using Green-Ampt Method and HEC-HMS Model (Case Study: Abnama Watershed, Iran). *International Journal of Hydraulic Engineering*, *1*(1), 5–9. https://doi.org/10.5923/j.ijhe.20120101.02

Mango, L. M., Melesse, A. M., McClain, M. E., Gann, D., & Setegn, S. G. (2011). Land use and climate change impacts on the hydrology of the upper Mara River Basin, Kenya: Results of a modeling study to support better resource management. *Hydrology and Earth System Sciences*, *15*(7), 2245–2258. https://doi.org/10.5194/hess-15-2245-2011

Marshall, L., Nott, D., & Sharma, A. (2005). Hydrological model selection: A Bayesian alternative. *Water Resources Research*, *41*(10), 1–11. https://doi.org/10.1029/2004WR003719

Masih, I., Uhlenbrook, S., Maskey, S., & Ahmad, M. D. (2010). Regionalization of a conceptual rainfall-runoff model based on similarity of the flow duration curve: A case study from the semi-arid Karkheh basin, Iran. *Journal of Hydrology*, *391*(1–2), 188–201. https://doi.org/10.1016/j.jhydrol.2010.07.018

Mcenroe, B. M., & Ph, D. (2010). Guidelines for Continuous Simulation of Streamflow in Johnson County , Kansas , with HEC-HMS. In *Johnson Country Works and Infrastructure Stormwater Management Program*.

Meenu, R., Rehana, S., & Mujumdar, P. P. (2012). Assessment of Hydrologic Impacts of Climate Change in Tunga-Bhadra River Basin, with HEC-HMS and SDSM. *Hydrological Processes*. https://doi.org/10.1002/hyp

Meresa, H. (2019). Modelling of river flow in ungauged catchment using remote sensing data: application of the empirical (SCS-CN), Artificial Neural Network (ANN) and Hydrological Model (HEC-HMS). *Modeling Earth Systems and Environment*, *5*(1), 257–273. https://doi.org/10.1007/s40808-018-0532-z

Merz, R., & Blöschl, G. (2004). Regionalisation of catchment model parameters. *Journal of Hydrology*, *287*(1–4), 95–123. https://doi.org/10.1016/j.jhydrol.2003.09.028

Mohamoud, Y. M. (2008). Prediction of daily flow duration curves and streamflow for ungauged catchments using regional flow duration curves. *Hydrological Sciences Journal*, *53*(4), 706–724. https://doi.org/10.1623/hysj.53.4.706

Moore, C., & Doherty, J. (2005). Role of the calibration process in reducing model predictive error. *Water Resources Research*, *41*(5). https://doi.org/10.1029/2004WR003501

Moradkhani, H., & Sorooshian, S. (2008). General Review of Rainfall-Runoff Modeling: Model Calibration, Data Assimilation, and Uncertainty Analysis. In *Hydrological Modelling and the Water Cycle* (pp. 1–24). https://doi.org/10.1007/978-3-540-77843-1_1

`

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

Mungai, D. N., Ong, C. K., Kiteme, B., Elkaduwa, W., & Sakthivadivel, R. (2004). Lessons from two long-term hydrological studies in Kenya and Sri Lanka. *Agriculture, Ecosystems and Environment*, *104*(1), 135–143. https://doi.org/10.1016/j.agee.2004.01.011

Nandalal, H. K., & Ratmayake, U. R. (2010). Event Based Modeling of a Watershed Using HEC-HMS. *Engineer: Journal of the Institution of Engineers, Sri Lanka*, *43*(2), 28. https://doi.org/10.4038/engineer.v43i2.6979

Nepal, S., Flügel, W. A., Krause, P., Fink, M., & Fischer, C. (2017). Assessment of spatial transferability of process-based hydrological model parameters in two neighbouring catchments in the Himalayan Region. *Hydrological Processes*, *31*(16), 2812–2826. https://doi.org/10.1002/hyp.11199

NRCS. (2007). Hydrograph - Chapter 16. In *Hydrology National Engineering Handbook*. U.S. Departmmnet of Agriculture.

Ojha, C. S. P., Surampalli, R. Y., & Bárdossy, A. (Eds.). (2017). *Sustainable Water Resources Management*. https://doi.org/10.1061/9780784414767

Oudin, L., Andréassian, V., Mathevet, T., Perrin, C., & Michel, C. (2006). Dynamic averaging of rainfall-runoff model simulations from complementary model parameterizations. *Water Resources Research*, *42*(7), 1–10. https://doi.org/10.1029/2005WR004636

Oudin, L., Andréassian, V., Perrin, C., Michel, C., & Le Moine, N. (2008). Spatial proximity, physical similarity, regression and ungaged catchments: A comparison of regionalization approaches based on 913 French catchments. *Water Resources Research*, *44*(3). https://doi.org/10.1029/2007WR006240

Ouédraogo, W. A. A., Raude, J. M., & Gathenya, J. M. (2018). Continuous modeling of the Mkurumudzi River catchment in Kenya using the HEC-HMS conceptual model: Calibration, validation, model performance evaluation and sensitivity analysis. *Hydrology*, *5*(3). https://doi.org/10.3390/hydrology5030044

Parajka, J., Merz, R., & Blöschl, G. (2005). A comparison of regionalisation methods for catchment model parameters. *Hydrology and Earth System Sciences*, *9*(3), 157–171. https://doi.org/10.5194/hess-9-157-2005

Patil, S. D., & Stieglitz, M. (2015a). Comparing spatial and temporal transferability of hydrological model parameters. *Journal of Hydrology*, *525*, 409–417. https://doi.org/10.1016/j.jhydrol.2015.04.003

Patil, S. D., & Stieglitz, M. (2015b). Comparing spatial and temporal transferability of hydrological model parameters. *Journal of Hydrology*, *525*, 409–417. https://doi.org/10.1016/j.jhydrol.2015.04.003

`

Pechlivanidis, I. G., Jackson, B. M., Mcintyre, N. R., & Wheater, H. S. (2011a). Catchment scale hydrological modelling: A review of model types, calibration approaches and uncertainty analysis methods in the context of recent developments in technology and applications. *Global Nest Journal*, *13*(3), 193–214. https://doi.org/10.30955/gnj.000778

Pechlivanidis, I. G., Jackson, B. M., Mcintyre, N. R., & Wheater, H. S. (2011b). Catchment scale hydrological modelling: A review of model types, calibration approaches and uncertainty analysis methods in the context of recent developments in technology and applications. *Global Nest Journal*, *13*(3), 193–214. https://doi.org/10.30955/gnj.000778

Pilgrim, D. ., & Cordery, I. (1992). Flood runoff. In D. R. Maidment (Ed.), *Handbook of hydrology*. McGraw-Hill New York.

Plesca, I., Timbe, E., Exbrayat, J. F., Windhorst, D., Kraft, P., Crespo, P., … Breuer, L. (2012). Model intercomparison to explore catchment functioning: Results from a remote montane tropical rainforest. *Ecological Modelling*, *239*, 3–13. https://doi.org/10.1016/j.ecolmodel.2011.05.005

Pócs, T. (1982). Tropical Forest Bryophytes. In *Bryophyte Ecology* (pp. 59–104). https://doi.org/10.1007/978-94-009-5891-3_3

Ponrajah, A. J. P. (1984). *Design of Irrigation Headworks for Small Catchments* (2nd ed.). Colombo: Irrigation Department, Sri Lanka.

Rathod, P., Borse, K., & Manekar, V. L. (2015). Simulation of Rainfall - Runoff Process Using HEC-HMS (Case Study : Tapi River , India). *20th International Conference on Hydraulics, Water Resources and River Engineering*, (January 2016), 17–19.

Razavi, T., Coulibaly, P., & Asce, M. (2012a). Streamflow Prediction in Ungauged Basins : Review of Regionalization Methods. *Journal of Hydrologic Engineering Engineering*. https://doi.org/10.1061/(ASCE)HE.1943-5584.0000690

Razavi, T., Coulibaly, P., & Asce, M. (2012b). Streamflow Prediction in Ungauged Basins: Review of Regionalization Methods. *Journal of Hydrologic Engineering*, (July). https://doi.org/10.1061/(ASCE)HE.1943-5584.0000690

Razmkhah, H. (2018). Parameter Uncertainty Propagation in a Rainfall–Runoff Model; Case Study: Karoon-III River Basin. *Water Resources*, *45*(1), 34–49. https://doi.org/10.1134/S0097807817050074

Razmkhah, H., Saghafian, B., Ali, A. M. A., & Radmanesh, F. (2016). Rainfall-runoff modeling considering soil moisture accounting algorithm, case study: Karoon III River basin. *Water Resources*, *43*(4), 699–710. https://doi.org/10.1134/S0097807816040072

Richard, G. A., Luis, S. P., Dirk, R., & Martin, S. (1998). Crop evapotranspiration-Guidelines for computing crop water requirements. In *FAO Irrigation and Drainage Paper No:56*. Retrieved from https://www.researchgate.net/publication/235704197_Crop_evapotranspiration-

`

        Guidelines_for_computing_crop_water_requirements-
FAO_Irrigation_and_drainage_paper_56

Saleh, A., Ghobad, R., & Noredin, R. (2011). Evaluation of HEC-HMS methods in surface runoff simulation (Case study: Kan watershed, Iran). *Advances in Environmental Biology*, *5*(6), 1316–1321.

Samaniego, L., Bárdossy, A., & Kumar, R. (2010). Streamflow prediction in ungauged catchments using copula-based dissimilarity measures. *Water Resources Research*, *46*(2). https://doi.org/10.1029/2008WR007695

Samuel, J., Coulibaly, P., & Metcalfe, R. A. (2011a). Estimation of continuous streamflow in ontario ungauged basins: Comparison of regionalization methods. *Journal of Hydrologic Engineering*, *16*(5), 447–459. https://doi.org/10.1061/(ASCE)HE.1943-5584.0000338

Samuel, J., Coulibaly, P., & Metcalfe, R. A. (2011b). Estimation of continuous streamflow in ontario ungauged basins: Comparison of regionalization methods. *Journal of Hydrologic Engineering*, *16*(5), 447–459. https://doi.org/10.1061/(ASCE)HE.1943-5584.0000338

Sardoii, E. R., Rostami, N., Sigaroudi, S. K., & Taheri, S. (2012). Calibration of loss estimation methods in HEC-HMS for simulation of surface runoff (case study: Amirkabir dam watershed, Iran). *Advances in Environmental Biology*, *6*(1), 343–348.

Saxton, K. E., & Rawls, W. J. (2006). Soil water characteristic estimates by texture and organic matter for hydrologic solutions. *Soil Science Society of America Journal*, *70*(5), 1569–1578. https://doi.org/10.2136/sssaj2005.0117

Scharffenberg, B., Bartles, M., Brauer, T., Fleming, M., & Karlovits, G. (2018). Hydrologic Modeling System User ' s Manual. In *U.S. Army Crops of Engineers, Hydrologic Engineering Center*. https://doi.org/10.1016/j.matchemphys.2008.05.088

Schreider, S. Y., Jakeman, A. J., Gallant, J., & Merritt, W. S. (2002). Prediction of monthly discharge in ungauged catchments under agricultural land use in the Upper Ping basin, northern Thailand. *Mathematics and Computers in Simulation*, *59*(1–3), 19–33. https://doi.org/10.1016/S0378-4754(01)00390-1

Searcy, J. K., Hardison, C. H., & Langbein, W. B. (1960). *Double-Mass Curves With a section Fitting Curves to Cyclic Data Manual of Hydrology: Part 1. General Surface-Water Techniques*.

Shrestha, S., Bastola, S., Babel, M. S., Dulal, K. N., Magome, J., Hapuarachchi, H. A. P., … Takeuchi, K. (2007). The assessment of spatial and temporal transferability of a physically based distributed hydrological model parameters in different physiographic regions of Nepal. *Journal of Hydrology*, *347*(1–2), 153–172. https://doi.org/10.1016/j.jhydrol.2007.09.016

Singh, A. (2018). *A Concise Review on Introduction to Hydrological Models*. *3*(10), 14–19.

`

Singh, V. P. (1992). *Elementary hydrology*. Prentice Hall.

Singh, W. R., & Jain, M. K. (2015). Continuous Hydrological Modeling using Soil Moisture Accounting Algorithm in Vamsadhara River Basin, India. *Journal of Water Resource and Hydraulic Engineering*, *4*(4), 398–408. https://doi.org/10.5963/jwrhe0404011

Sitterson, J., Knightes, C., Parmar, R., Wolfe, K., Muche, M., & Avant, B. (2017). An Overview of Rainfall-Runoff Model Types. *U.S. Environmental Protection Agency*, (September), 0–29.

Skagga, R. W., & Khaleel, R. (1982). Chapter 4-Infiltration. In A. B. James (Ed.), *Hydrologic Modelling in Small Watersheds* (pp. 121–162). American Society of Agricultural Engineers.

Soil Conservation Service. (1986). *Urban Hydrology for Small Watersheds - Technical Release 55*.

Sok, K., & Oeurng, C. (2016). Application of HEC-HMS Model to Assess Streamflow and Water Resources Availability in Stung Sangker Catchment of Mekong' Tonle Sap Lake Basin in Cambodia. *Institute of Technology of Cambodia*, (December), 1–16. https://doi.org/10.20944/preprints201612.0136.v1

Sorooshian, S, & Gupta, V. K. (1995). Model calibration. In V. P. Singh (Ed.), *Computer models of watershed hydrology*. Water Resources Publications.

Sorooshian, Soroosh, Gupta, V. K., & Fulton, J. L. (1983). Evaluation of Maximum Likelihood Parameter estimation techniques for conceptual rainfall-runoff models: Influence of calibration data variability and length on model credibility. *Water Resources Research*, *19*(1), 251–259. https://doi.org/10.1029/WR019i001p00251

Supriya, P., & Krishnaveni, M. (2016). Comparing the Perform of Rainfall-Runoff Models for Chinnar and Anaivari Odai Sub Basins. *Journal of Applied Hydrology*, *XXIX*(1), 44–59.

Tassew, B. G., Belete, M. A., & Miegal, K. (2019). Application of HEC-HMS model for flow simulation in the lake Tana basin: The case of Gilgel Abay catchment, Upper Blue Nile Basin, Ethiopia. *Hydrology*, *6*(21), 1–17. https://doi.org/10.3390/hydrology6010021

Todini, E. (1988). Rainfall Runoff Modelling - Past, Present and Future. *Journal of Hydrology*, *100*(1988), 341–352.

Van Der Linde, S., & Woo, M. K. (2003). Transferability of hydrological model parameters between basins in data-sparse areas, subarctic Canada. *Journal of Hydrology*, *270*(3–4), 182–194. https://doi.org/10.1016/S0022-1694(02)00295-0

Vaze, J., Jordan, P., Beecham, R., Frost, A., & Summerell, G. (2011). *Calibration Info eWater*.

Veneklaas, E. J., & Van Ek, R. (1990). Rainfall interception in two tropical montane rain forests, Colombia. *Hydrological Processes*, *4*(4), 311–326.

`

https://doi.org/10.1002/hyp.3360040403

Verma, A. K., Jha, M. K., & Mahana, R. K. (2010). Evaluation of HEC-HMS and WEPP for simulating watershed runoff using remote sensing and geographical information system. *Paddy and Water Environment*, *8*(2), 131–144. https://doi.org/10.1007/s10333-009-0192-8

Wagener, T., Wheater, H. S., & Gupta, H. V. (2004). *Rainfall-Runoff Modelling in Gauged and Ungauged Catchments* (T. K. Wei, Ed.). https://doi.org/10.1142/p335

Wałęga, A. (2013). Application of HEC-HMS programme for the reconstruction of a flood event in an uncontrolled basin. *Journal of Water and Land Development*, *18*(9), 13–20. https://doi.org/10.2478/jwld-2013-0002

Wallner, M., Haberlandt, U., & Dietrich, J. (2012). Evaluation of different calibration strategies for large scale continuous hydrological modelling. *Advances in Geosciences*, *31*(1), 67–74. https://doi.org/10.5194/adgeo-31-67-2012

Wheater, H. S. (2002). Progress in and prospects for fluvial flood modelling. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, *360*(1796), 1409–1431. https://doi.org/10.1098/rsta.2002.1007

Wicher, K. (2016). *Rainfall Runoff Modeling in Kävlinge River Basin with HEC-HMS: Hydrologic Response to the Climate of the Future*. Division of Water Resource Engineering, Department of Building & Environmental Technology, Lund University.

Wickramaarachchi, T. N., Ishidaira, H., & Wijayaratna, T. M. N. (2012). An Application of Distributed Hydrological Model, YHyM/BTOPMC to Gin Ganga Watershed, Sri Lanka. *Engineer: Journal of the Institution of Engineers, Sri Lanka*, *45*(2), 31. https://doi.org/10.4038/engineer.v45i2.6939

Wijesekera, N. (2013). *Estimation of hydropower potential of Kuru ganga at Bopathella*.

Wijesekera, N. T. S. (2018). *Classification of Streamflow Observations for Water Management*. (February). https://doi.org/10.13140/RG.2.2.23605.58089

Wijesekera, S., Imbulana, K. A. U. ., & Neupane, B. (2005). World Water w. In *Proceeding of the Preparatory Workshop on Sri Lanka National Water Development Report, World Water Assessment Programme, Paris, France*.

WMO. (1975). *Intercomparison of Conceptual Models used in operational hydrological forecasting*. Geneva.

Wu, Q., Liu, S., Cai, Y., Li, X., & Jiang, Y. (2017). Improvement of hydrological model calibration by selecting multiple parameter ranges. *Hydrology and Earth System Sciences*, *21*(1), 393–407. https://doi.org/10.5194/hess-21-393-2017

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.

`

https://doi.org/10.1023/A:1007916816469

Zelelew, M. B., & Alfredsen, K. (2014). Transferability of hydrological model parameter spaces in the estimation of runoff in ungauged catchments. *Hydrological Sciences Journal*, *59*(8), 1470–1490. https://doi.org/10.1080/02626667.2013.838003

Zema, D. A., Labate, A., Martino, D., & Zimbone, S. M. (2017). Comparing Different Infiltration Methods of the HEC-HMS Model: The Case Study of the Mésima Torrent (Southern Italy). *Land Degradation and Development*, *28*(1), 294–308. https://doi.org/10.1002/ldr.2591

Zhang, Y., & Chiew, F. H. S. (2009). Relative merits of different methods for runoff predictions in ungauged catchments. *Water Resources Research*, *45*(7). https://doi.org/10.1029/2008WR007504

Zhang, Z., Wagener, T., Reed, P., & Bhushan, R. (2008). Reducing uncertainty in predictions in ungauged basins by combining hydrologic indices regionalization and multiobjective optimization. *Water Resources Research*, *44*(12), 1–13. https://doi.org/10.1029/2008wr006833