

## REFERENCES

- Akin, J. E. (1971). Calculation of Mean Areal Depth of Precipitation. *Journal of Hydrology Vol. 12*, 363-376.
- Al-Lafta, H. S., Al-Tawash, B. S., & Al-Baldawi, B. A. (2013). Applying the "abcd" Monthly Water Balance Model for some regions in the United States. *Advances in Physics Theories and Applications*, 36-47.
- Anctil, F., Perrin, C., & Andreassian, V. (2004). Impact of the length of observed records on the performance of ANN and of conceptual parsimonious rainfall-runoff forecasting models. *Environmental Modelling & Software Vol. 19*, 357-368.
- Bai, P., Liu, X., Liang, K., & Liu, C. (2015). Comparison of performance of twelve monthly water balance models in different climatic catchments of China. *Journal of Hydrology*, 1030-1040.
- Barbalho, F. D., Silva, G. F., & Formiga, K. T. (2014). Average Rainfall Estimation : Methods Performance Comparison in the Brazilian Semi-Arid. *Journal of Water Resource and Protection*, 97-103.
- Berndtsson, R., & Niemczynowicz, J. (1988). Spatial and Temporal Scales in Rainfall Analysis - Some Aspects and Future Perspectives. *Journal of Hydrology*, 293-313.
- Berne, A., Delrieu, G., Creutin, J.-D., & Obled, C. (2004). Temporal and Spatial resolution of rainfall measurements required for urban hydrology. *Journal of Hydrology*, 166-179.
- Bhavani, R. (2013). Comparison of Mean and Weighted Annual Rainfall in Anantapuram District. *International Journal of Innovative Research in Science, Engineering and Technology*, 2794-2800.
- Boughton, W. (2006). *A review of Australian model parameterization studies using large basin samples*. IAHS-AISH Publication.
- Buzacott, Alexander & Tran, Bruce & Van Ogtrop, Floris & Vervoort, Rutger Willem. (2019). *Conceptual Models and Calibration Performance—Investigating Catchment Bias*. *Water*. 11. 2424. 10.3390/w11112424.
- Chen, T., Ren, L., Yuan, F., Yang, X., Jiang, S., Tang, T., . . . Zhang, L. (2017). Comparison of Spatial Interpolation Schemes for Rainfall Data and Application in Hydrological Modeling. *Water*.
- Cristiano, E., Veldhuis, M.-c., & Giesen, N. (2017). Spatial and temporal variability of rainfall and their effects on hydrological response in urban areas – a review. *Hydrology and Earth System Sciences*, 3859-3878.
- Cunderlik, J. M., & Simonovic, S. P. (2004). *Selection of calibration and verification data for the HEC-HMS hydrologic model*. London, Ontario: The University of Western Ontario.
- Diskin, M. H., & Simon, E. (1977). A Procedure for the Selection of Objective Functions for Hydrologic Simulation Models. *Journal of Hydrology*, 34, 129-149.
- Dissanayake, P. K. (2017). *Applicability of a Two Parameter Water Balance Model to Simulate Daily Rainfall Runoff - Case Study of Kalu and Gin River Basins in Sri Lanka (Unpublished Master's Thesis)*. Colombo, Sri Lanka: University of Moratuwa.
- Dzubakova, K. (2010). Rainfall-Runoff Modelling: Its development, Classification and Possible Applications. *ACTA, Geographica Universitat Comeniana*, Vol. 54, pp. 173-181.
- Edwards, K. A. (1972). A Note on the "Calculation of Mean Areal Depth of Precipitation" by J. A. Akin. *Journal of Hydrology*, 171-173.

- EPA. (2007). *An Approach for Using Load Duration Curves in the Development of TMDLs*. Pennsylvania Ave. NW, Washington: U.S. Environmental Protection Agency.
- Gan, T. Y., & Biftu, G. F. (1996). Automatic Calibration of Conceptual rainfall-runoff models: Optimization algorithms, catchment conditions, and model structure. *Water Resources Research Vol 32, No. 12*, 3513-3524.
- Hoad, K., Robinson, S., & Davies, R. (2008). Automating Warm-Up Length Estimation. *Winter Simulation Conference* (pp. 532-540). Coventry, UK: IEEE.
- Jayatilaka, C. J., Sakthivadivel, R., Shinogi, Y., Makin, I. W., & Witharana, P. (2003). A simple water balance modelling approach for determining water availability in an irrigation tank cascade system. *Journal of Hydrology*, 81-102.
- Khandu, D. (2016). *A Monthly Water Balance Model for Evaluation of Climate Change Impacts on the Streamflow of Gin Ganga and Kelani Ganga Basins, Sri Lanka (Unpublished Master's Thesis)*. Colombo, Sri Lanka: University of Moratuwa.
- Kim, S., Hong, S., Kang, N., Noh, H., & Kim, H. (2015). A comparative study on the simple two-parameter monthly water balance model and Kajiyama formula for monthly runoff estimation. *International Conference Water Resources Assessment and Seasonal Prediction*. Koblenz, Germany: Taylor & Francis & IAHS.
- Krause, P., Boyle, D., & Base, F. (2005). Comparison of different efficiency criteria for hydrological model assessment. *Advances in Geosciences*, 89-97.
- Lebel, T., Bastin, G., Obled, C., & Creutin, J. D. (1987). On the accuracy of areal rainfall estimation: A case study. *Water Resources Research Vol 23, No. 11*, 2123-2134.
- 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*, 378-393.
- Liu, J., & Han, D. (2010). Indices for calibration data selection of the rainfall-runoff model. *Water Resource Research, Vol. 46*, 1-17.
- Mahinda, R. (2006). *Mahinda Chintana*. Panaluwa, Padukka: Department of National Planning Ministry of Finance and Planning.
- Makhlouf, Z., & Michel, C. (1994). A two-parameter monthly water balance model for French watersheds. *Journal of Hydrology*, 299-318.
- Makridakis, S. (1993). Accuracy measures: theoretical and practical concerns. *International Journal of Forecasting 9*, 527-529.
- Mata-Lima, H. (2011). Evaluation of the objective functions to improve production history matching performance based on fluid flow behaviour in reservoirs. *Journal of Petroleum Science and Engineering*, 42-53.
- Mishra, A. K. (2013). Effect of rain gauge density over the accuracy of rainfall: a case study over Bangalore, India. *Springer Plus*.
- Moriasi, D. N., Gitau, M. W., Pai, N., & Daggupati, P. (2015). Hydrologic and Water Quality Models: Performance measures and evaluation criteria. *Vol 58*, 1763-1785.
- Moriasi, D. N., Wilson, B. N., Douglas-Mankin, K. R., Arnold, J. G., & Gowda, P. H. (2012). Hydrologic and Water Quality Models: Use, Calibration, and Verification. *Vol 55(4)*, 1241-1247. American Society of Agricultural and Biological Engineers. doi:<http://dx.doi.org/10.13031/2013.42265>.

- Moriasi, D., Arnold, J., Van Liew, M., Bingner, R., Harmel, R., & Veith, T. (2007). Model Evaluation Guidelines for Systematic Quantification of Accuracy in Watershed Simulations. *American Society of Agricultural and Biological Engineers, Vol 50(3)*, 885-900.
- Mouelhi, S., Michel, C., Perrin, C., & Andreassian, V. (2006). Stepwise development of a two-parameter monthly water balance model. *Journal of Hydrology*, 200-214.
- Nash, J. E., & Sutcliffe, J. V. (1970). River Flow Forecasting through Conceptual Models: Part I - A Discussion of Principles. *Journal of Hydrology*, 10, 282-290.
- Patrick, N., & Stephenson, D. (1990). Spatial variation of rainfall intensities for short duration storms. *Hydrological Sciences Journal*, 667-680.
- Patry, G. G., & Marino, M. A. (1983). Nonlinear Runoff Modelling: Parameter Identification. *Journal of Hydraulic Engineering*, 865-880.
- Paulhus, J. L., & Kohler, M. A. (1952). Interpolation of Missing Precipitation Records. *Monthly Weather Review*, 80, 129-133.
- Perera, K. R., & Wijesekera, N. T. (2011). Identification of the Spatial Variability of Runoff Coefficients of Three Wet Zone Watersheds of Sri Lanka. *Engineer - Vol XXXIV*, 1-10.
- Robinson, S. (2004). *Simulation. The practice of model development and use*. England: John Wiley & Sons Ltd.
- Servat, E., & Dezetter, A. (1991). Selection of Calibration Objective Functions in the context of Rainfall-Runoff Modelling in a Sudanese Savannah Area. *Hydrological Sciences Journal*, 36, 307-330.
- Sharifi, M. B. (2015). *Calibration and Verification of a two parameter monthly water balance model and its application potential for evaluation of water resources - A case study of Kalu ganga and Mahaweli rivers of Sri Lanka (Unpublished Master's Thesis)*. Colombo, Sri Lanka: University of Moratuwa.
- Shaw, E. M., & Lynn, P. P. (1972). Areal Rainfall Evaluation using Two Surface Fitting Techniques. *Bulletin of the International Association of Hydrological Sciences XVII*, 419-433.
- Singh, V. P., & Chowdhury, P. K. (1986). Comparing some methods of estimating mean areal rainfall. *American Water Resource Association, Vol 22 (2)*, 275-282.
- Sorooshian, S., & Gupta, V. K. (1983). Automatic Calibration of Conceptual Rainfall-Runoff Models: The Question of Parameter Observability and Uniqueness. *Water Resource Research Vol 19*, 260-268.
- Sugawara, M. (1992). Chapter 5 – On the weights of precipitation stations. In J. O'Kane (Ed.), *Advances in Theoretical Hydrology: A tribute to James Dooge Volume 1 of European Geophysical Society: European Geophysical Society series on hydrological sciences* (pp. 59-74). Amsterdam: Elsevier Science Publishers B.V.
- Suhaila, J., Sayang, M. D., & Jemain, A. A. (2008). Revised Spatial Weighting Methods for Estimation of Missing Rainfall Data. *Asia-Pacific Journal of Atmospheric Sciences*, 44, 93-104.
- Teegavarapu, R. S., Tufail, M., & Ormsbee, L. (2009). Optimal functional forms for estimation of missing precipitation data. *Journal of Hydrology* 374, 106-115.
- Thapa, G. (2014). *Event based modelling of streamflow for reliable flood mitigation and drainage infrastructure designs using Snyder's Synthetic Unit Hydrograph Method - A case study of Karasnagala Watershed in the Attanagalu Oya of Sri Lanka (Unpublished Master's Thesis)*. Colombo, Sri Lanka: University of Moratuwa.
- Thiessen, A. H., & Alter, J. C. (1911). Climatological Data for July, 1911 : District No. 10, Great Basin. *Monthly Weather Review*, 1082-1083.

- Thornthwaite, C. W., & Mather, J. R. (1955). The Water Balance. In *Laboratory of Climatology*. Centerton, USA.
- Thorthwaite, C. W. (1948). An approach toward a rational classification of climate. *Geogr. Rev.* 38(1), 55-94.
- Tofallis, C. (2014). A better measure of relative prediction accuracy for model selection and model estimation. *Journal of the Operational Research Society*, 1-11.
- Wang, Q. J., Pagano, T. C., Zhou, S. L., Hapuarachchi, H. A., Zhang, L., & Robertson, D. E. (2011). Monthly versus daily water balance models in simulating monthly runoff. *Journal of Hydrology*, 166-175.
- Wijesekera, N.T.S, & Ghanapala, P. (2003). Modeling of Two Low Lying Urban Watersheds in the Greater Colombo Area for Drainage and Environment Improvement. *Journal of the Institution of Engineers, Sri Lanka Vol.XXXVI*, 39-45.
- Wijesekera, N.T.S, & Musiake, K. (1990). Streamflow Modelling of a Sri Lankan Catchment Considering Spatial Variation of Rainfall. *Japan Society of Hydrology and Water Resources* (pp. 127-129). Tokya: Institute of Industrial Science, University of Tokya.
- Wijesekera, N.T.S., (2018). *Classification of Streamflow Observations for Water Management*. doi:10.13140/RG.2.2.23605.58089.
- Wijesekera, N.T.S, & Perera, K. R. (2010). Identification of the spatial variability of runoff coefficient of three wet zone watershed of Sri Lanka for efficient River Basin Planning. *3rd International Perpective on Current & Future State of Water Resources & The Environment*. Chennai: American Society of Civil Engineers.
- Xiong, L., & Guo, S. (1999). A two-parameter monthly water balance model and its application. *Journal of Hydrology*, 111-123.
- Xu, C. Y., & Singh, V. P. (1998). A Review of Monthly Water Balance Models for Water Resources Investigations. *Water Resources Management*, 31-50.
- Zhang, Y., Engel, B., Ahiablame, L., & Liu, J. (2015). Impacts of Climate Chnage on Mean Annual Water Balance for Watersheds in Michigan, USA. *Water*, 3564-3578.