

Corrigendum to

“Investigation of dominant hydrological processes in a tropical catchment in a monsoonal climate via the downward approach” published in Hydrol. Earth Syst. Sci., 10, 769–782, 2006

L. Montanari et al.

DISTART, Faculty of Engineering, University of Bologna, Viale Risorgimento 2, 40136 Bologna, Italy

In the paper “Investigation of dominant hydrological processes in a tropical catchment in a monsoonal climate via the downward approach” by Laura Montanari et al. (Hydrol. Earth Syst. Sci., 10, 769–782, 2006) errors have occurred in the final production process, for which the authors express genuine regret:

In Sect. 3.1, in the last four lines, the correct sentence should be: “The lowest and highest values of rainfall and runoff are reached in 1989 and 1975, respectively (see Fig. 2), when the index of aridity assumes the highest and lowest values, in that order”.

In Sect. 3.2, the correct wording of the first paragraph should be as follows: “Mean monthly potential evapotranspiration and mean monthly rainfall are out of phase within the year, as seen in Fig. 4, where these variables are presented starting from October, the month with the lowest runoff value which is numbered as month 1 (i.e., start of the water year). The maximum of mean monthly runoff is reached between February and March (namely months 5 and 6 in the water year, as shown in Fig. 4), during which the potential evapotranspiration is around its minimum and the rainfall is still relevant, causing maximization of the soil moisture storage”.

Moreover, Figs. 7, 8, 9 16 should be shown as follows.

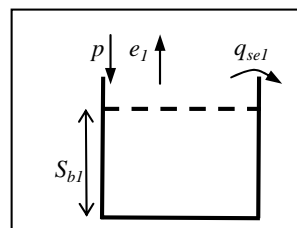


Fig. 7. Sketch of the B1 model. Only saturation excess runoff is included.

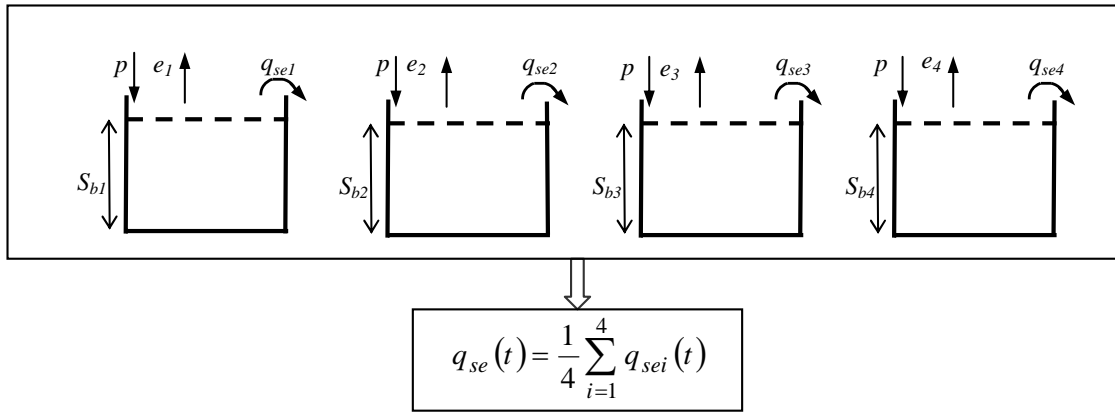


Fig. 8. Sketch of model B4. Only saturation excess runoff is included.

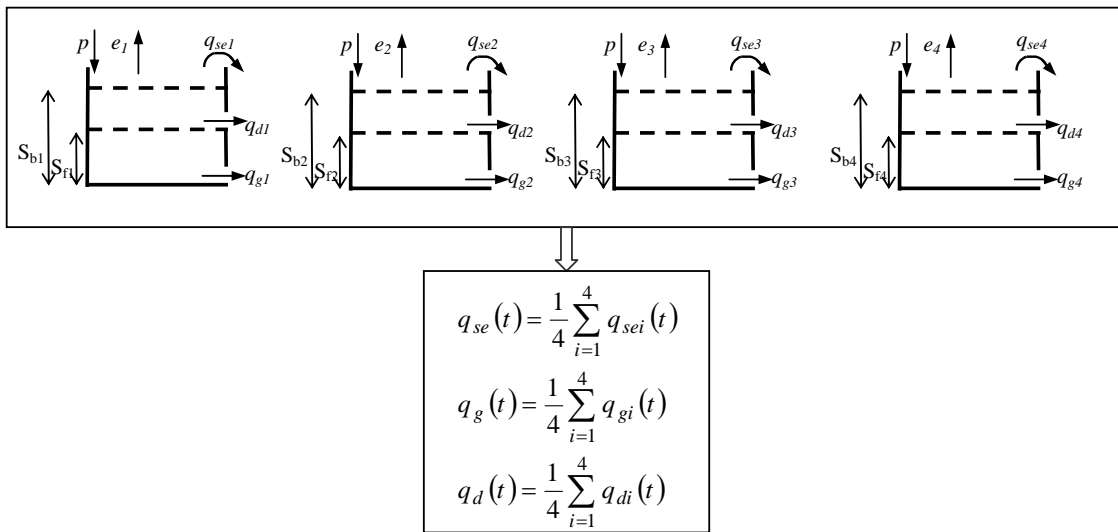


Fig. 9. Model B4DG, composed of four buckets in parallel. Saturation excess runoff, delayed runoff and groundwater flow are all accounted for.

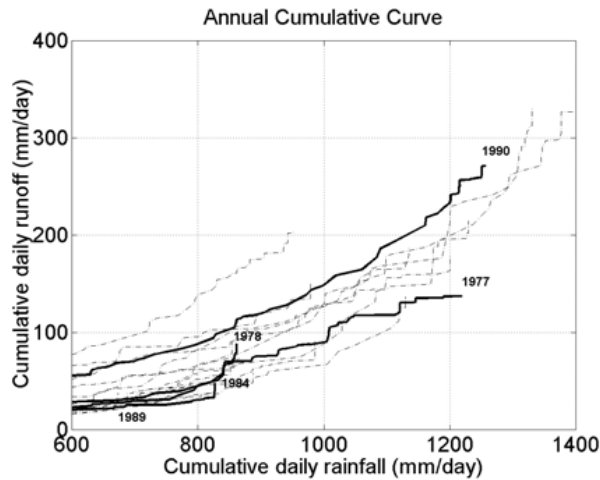


Fig. 16. Cumulative daily runoff versus cumulative daily rainfall for every year of record: results presented only in the rainfall range of 600 mm to 1400 mm for clarity (year 1975 has been excluded as it is considered anomalous).