



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	MS: 2012/BJMCS/1851
Title of the Manuscript:	Determination of Normal Operating Heights of Reservoirs in a Network Using Non-linear Reservoir Method

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
The revised version of the manuscript entitled had its comprehension considerably improved; permitting the identification of conceptual difficulties in the manner how the problem was formulated, exemplified as follows. If, according to Line #130, discharges through an orifice or a weir can be expressed as those in Line #131: 1-H must be the load over an orifice, not height of the reservoir as defined in Line #42; 2-W cannot be defined as width of the catchment; and 3-S cannot be defined as slope of overland surface. From then on, I have doubts about the theoretical basis of the work. Thus, it is suggested that the manuscript be rejected and the authors invited to resubmit it, after careful review of professional from this acknowledge area. Minor errors can be pointed out too as: 1. In the abstract, a gap was identified between the second and the third phrase. 2. In the third phrase, "...This matrix gives a negative definite matrix which satisfies..." can be changed to "...The resulting matrix is negative definite satisfying...", for example. 3. In the introduction, a discontinuity was identified when the Muskingum method is mentioned e after that is said that Muskingum-Cunge was modified, without mention to it. It could be said that Muskingum-Cunge method was proposed to evaluate parameters for Muskingum method based on hydraulic characteristics of the channel, for example. 4. Indexes are not clear, as examples, one can points out: Equation (2), line # 129, $Q_{0,1}$ (0=?, 1=?) Line # 131: $c_{d,1}$(d=?, 1=?) - What is the difference between c and C? What is the difference between H and H_1?	1. The equation of discharge through a weir was changed in line #128 which change W to L and S is not necessary in the new form. 2. W initially was a typo error, and changing the equation in line 128 has corrected this error. W has now been replaced by L in line # 40 3. The height H used initially was because in a connected reservoir, the discharge end is calculated from difference in height of the water surface. This height is what we seek to find to satisfy the stability of the network. The head loss and the height of reservoir are related by equation in line # 141. We believe this will effect on the first reservoir which is not connected upland and more pronounce in an isolated reservoir. As describe in this formulation, the orifice is at bottom edge of the reservoir to ensure all water stored are discharge after rain event, the difference between the head loss and height of water in the reservoir is the radius of orifice as describe in line # 141 Minor errors 1. And 2. Corrected, the whole abstract has been rewritten 2. Corrected 3. Corrected in line #33-35 4. Corrected in line #40, 128 and 130