

According to the Editors comments and advice the manuscript has been revised with regard to the following issues :

- Eqs 1 and 2: Thinking about the comment by Referee #4 that "an introductory discussion of how basin storage can drive river flow" is missing, I realised that Eq. 1 comes a bit out of the blue.

→ Text revised P2L30 – P3 L10

- P4L21: This should be  $\tau = M/R$ , for consistency with Eq. 2.

→ revised

- Eqs. 4-7: Please follow the HESS convention where each equation stands on its own line with its own label, e.g.:

"The total system behaviour is described by two balance equations, one for catchment storage (Eq. 4) and one for river storage (Eq. 6):"

followed by Eqs. 4-7, where the word "with" before 5 and 7 would be on a separate line before the equation.

→ revised

- Eq. 8: Why do you call the "time dependent recharge"  $N(w)$ , not  $N(t)$ , as in Eq. 9?

→ revised

- P28L11-: In the track-changes file, this is labelled "Discussion", but the discussion has to come before the conclusions. Please fix the formatting of P28L11 and move this Discussion section before the Conclusions.

I would also remove the first sentence of the Discussion: "Comparing global hydrological or land surface models with the presented Cascaded storage approach it can be summarized:"

→ revised

The manuscript still contains a large number of language-related and typographical errors and formatting that is not consistent with HESS guidelines (e.g. in-text citations, where the year should be in brackets), but I believe that this will be fixed during the copy-editing process.

→ revised