

Re-Review of *Non-stationary low-flow frequency analysis with mixed Weibull components and Copula-based dependence framework* (<https://doi.org/10.5194/egusphere-2026-1820>) submitted to HESS.

Reviewer: Chuck Kroll, SUNY ESF, Syracuse, NY USA

The authors have done an excellent job addressing my minor concerns with the original manuscript. I do have a few minor suggestions for the final manuscript.

Response to Comment 1:

Line 93. Do any of the ROBIN sites you are employing contain intermittent flows (zeros)? If so, how does this impact your analysis?

- 1) While I would consider any site with any flows recorded as zero as intermittent, I'm not bothered if you use this stricter definition.
- 2) In the end, do you remove the 3.2% of intermittent sites, or do you keep them in your analysis? Assuming you keep them, is there any problems keeping them in your analysis (i.e. censored flows reported as zeros)? It also seems that you can't have a non-stationary lower bound if you have zeros throughout the record.

Response to Comment 10:

Line 251. It would be helpful to either include the likelihood function or provide a reference to where this could be obtained. Are you assuming your observations are independent?

Even if the series are stationary, this expression depends on independence of the observations to decompose the likelihood function. As such, I would include here on the last line ". . . over time, and assuming the observations are independent, the log-likelihood function is given by". Even for the non-stationary case, I think you still need the assumption of independence, so I'd probably include it there too.

Response to Comment 14:

It might read better if the period is replaced by a comma, and this is written as 1 sentence.

Response to Comment 22:

I would remove the word "more" before "increased seasonal dependence"