

Review for manuscript: *evalhyd v0.1.2: a polyglot tool for the evaluation of deterministic and probabilistic streamflow predictions*

Summary:

This manuscript presents a straightforward goal: to introduce an open-source package available in C++, R, Python, and cmd for computing popular metrics in the field of hydrology. The package offers a range of functionalities, including data preprocessing methods and both deterministic and probabilistic metric computation. This comprehensive approach caters to users across varying levels of modeling experience, from those seeking simplified solutions to those wishing to streamline their workflow without the need to code equations for specific metrics. Overall, this package is expected to benefit both novice users and experienced modelers alike.

Comments:

Line 76-77: The author highlights the capability of the C++ core of this package in handling large datasets; however, there is a lack of scalability tests or comparisons with other models to support this claim.

Table 2, Table 3: Parentheses should be used for open range indicators.

Line 91: Add "evalhyd" as the name of one of the tools.

Section 3.3: Consider using a general notation of $X^{N \times d}$ and provide examples of d as listed.

Preprocessing functionalities provided in 4.2-4.4 may be considered trivial, as other packages offer more extensive capabilities. It is suggested that the authors continue expanding this package to incorporate additional methods for broader usage.

Figure 6: Instead of plotting a 1:1 line, plotting the residual of evalhyd minus Harrigan et al. (2023) results against lead time may be more meaningful.