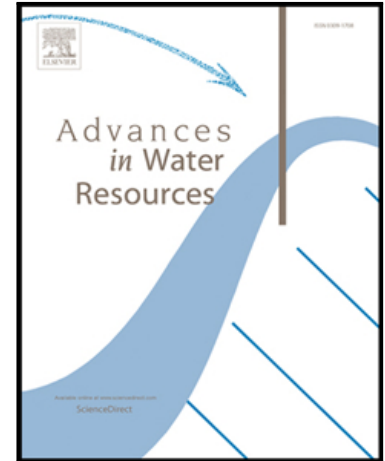


## Accepted Manuscript

A comparison of methods to estimate future sub-daily design rainfall

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**Highlights:**

- Sixteen methods for estimating future sub-daily design rainfall were assessed.
- A cross-validation framework was proposed to measure errors in probability space.
- For 1h events, bias correcting the hourly annual maximum rainfall is recommended.
- For multi-hour events, disaggregating the daily rainfall total is preferred.
- An overall increasing trend in design rainfalls was found for all methods.

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