Hydrological modelling of the Tafna basin.

(Northwest Algeria)

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Objective

- To compare the performance of different hydrological models under different levels of data.
- Development of downscaling of GCM and RCM climate scenario for getting future forecast data of climate.
- Water allocation modelling will be performed based on climate scenarios and hydrological model simulation.

Area of Tafna: 7245 km²
Methodology

Test statistic

Randomness Tests
  (correlation test)

Statistical tests of homogeneity
  Hubert segmentation test
  Bayesian method Lee and Heghinian
  Pettitt's test
1. Trend analysis of rainfall data

**SEBDOU SUB BASIN**

**KHEMISS SUB BASIN**

**BENI BAHDEL SUB BASIN**

**Conclusion**

Test statistic aid to detect if there is a significant change in a data series (try to understand the cause) and knowing the distribution of the data.
THANK YOU FOR

YOUR ATTENTION