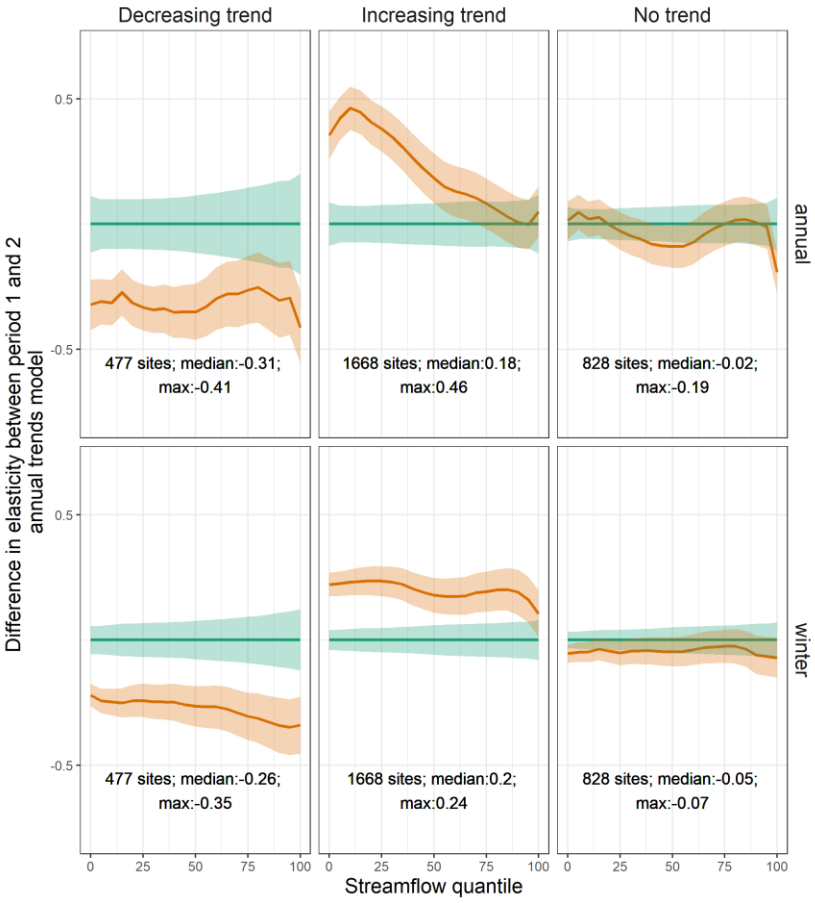
My Third Dphil paper addresses a fundamental assumption which is often made in the hydrologic literature: Elasticity does not change in time (Zhang et al., 2023). This paper is still in the process of being written! But here are some preliminary results:



This figure shows clear, statistically significant average change in εc,P (elasticity curve) associated with significant trends (positive and negative) in precipitation between baseline period (1980-2000) and secondary period (2000-2020). We attribute these changes to shifts in the available water storage within a catchment due to prolonged wetting or drying. This also shows an absence of statistically significant change in εc,P on average when precipitation has no significant trend, demonstrating the consistency of the result.