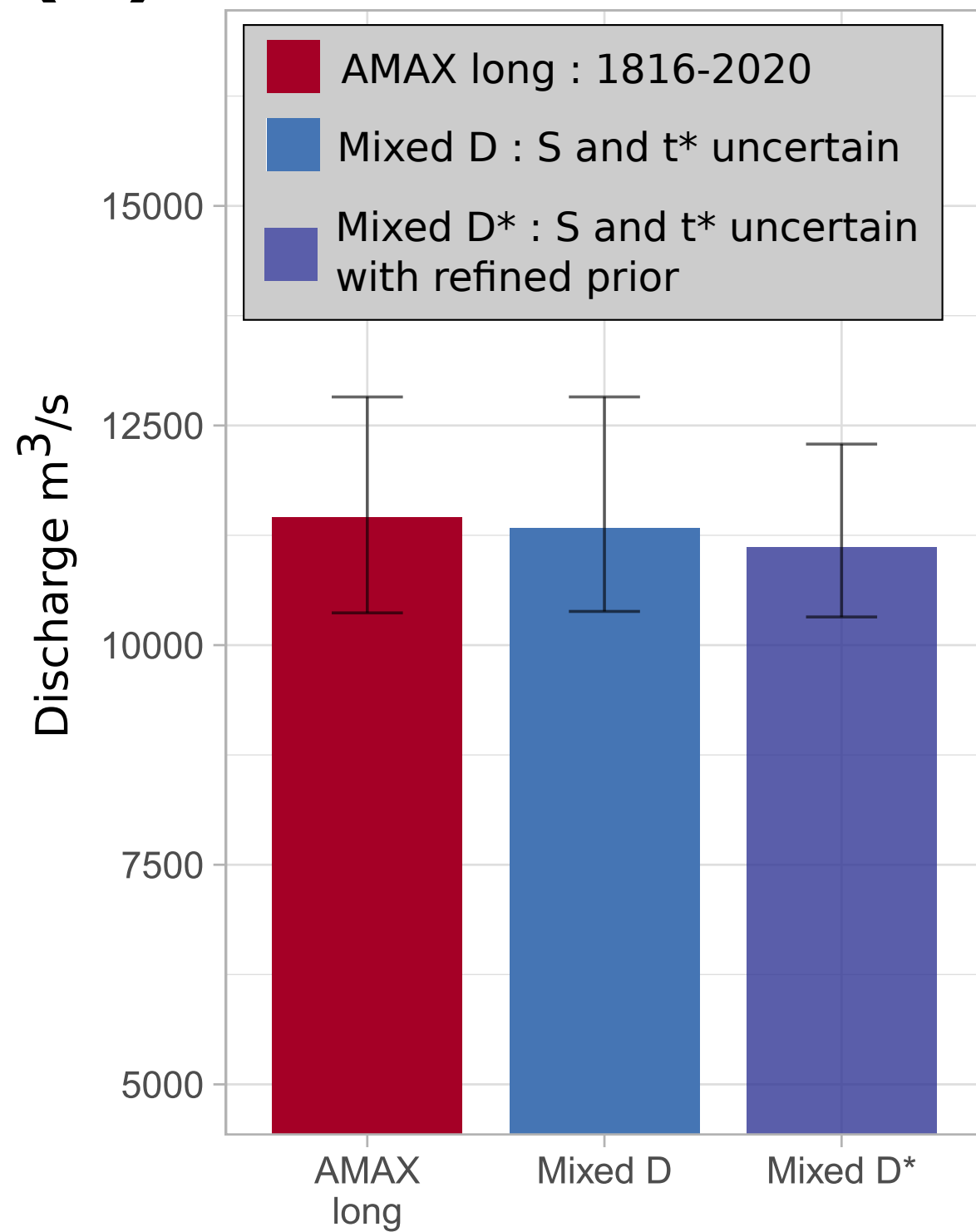
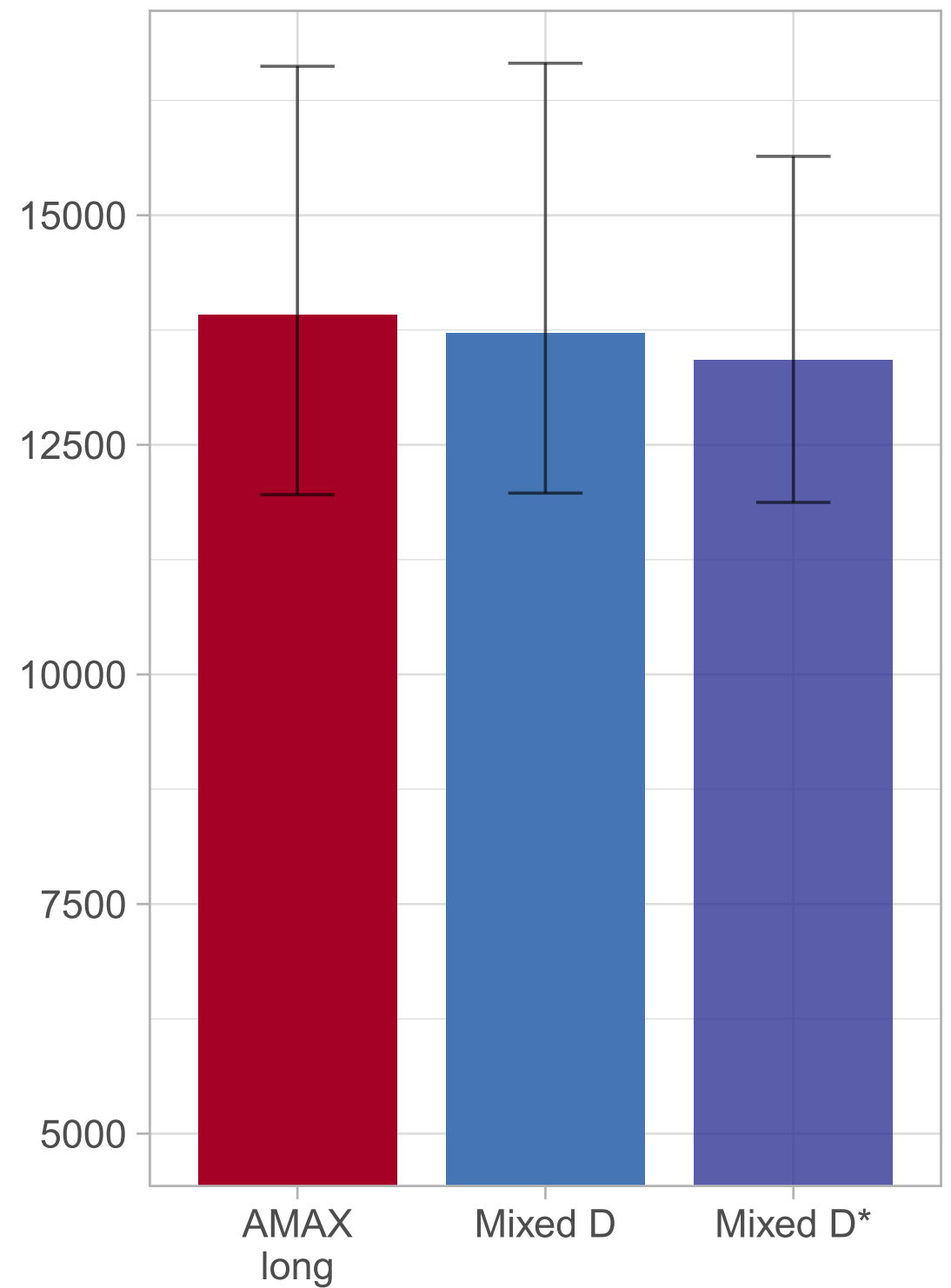
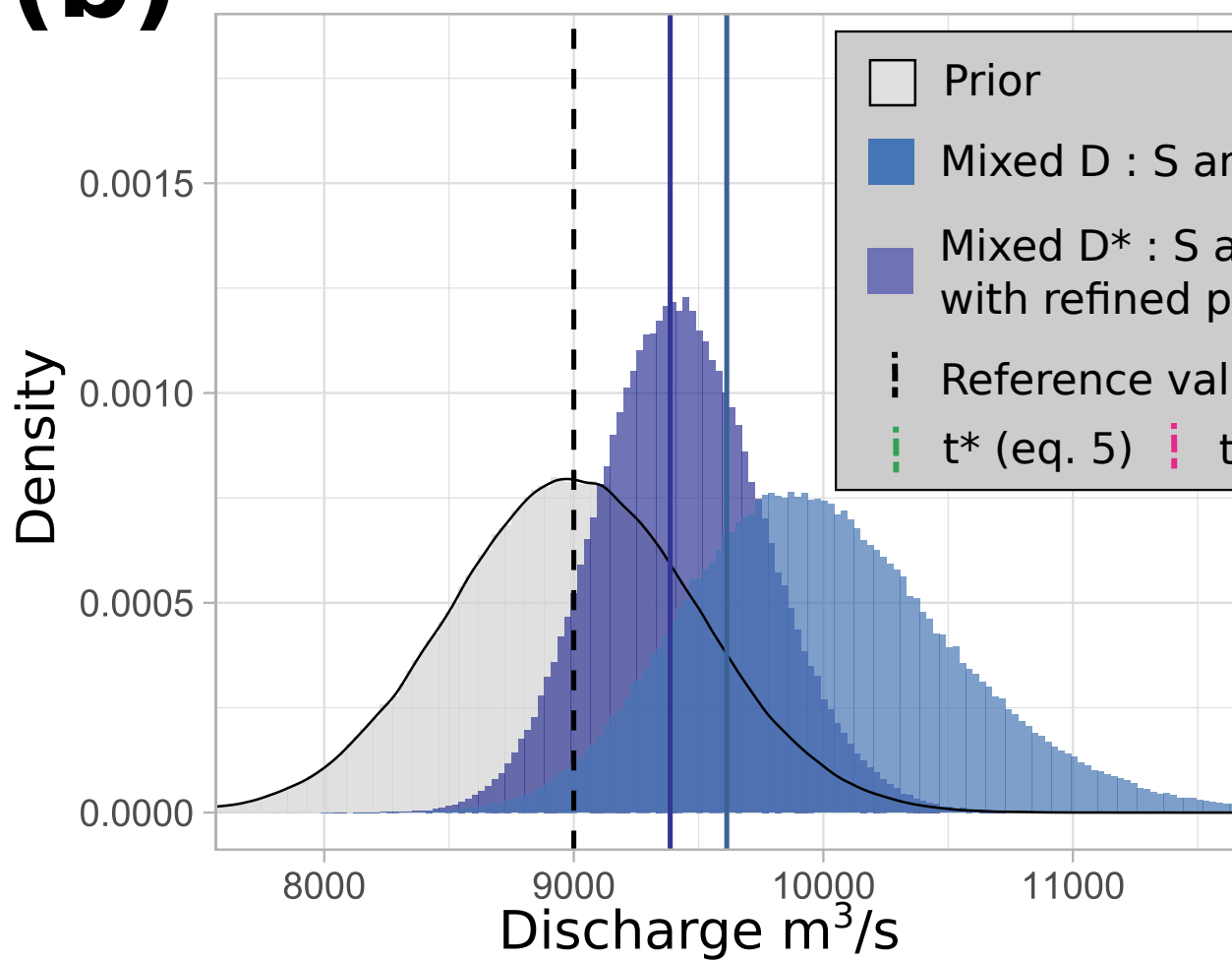


**(a)** Q100

Q1000

**(b)** Perception threshold SStart. date of historical period  $t^*$ 