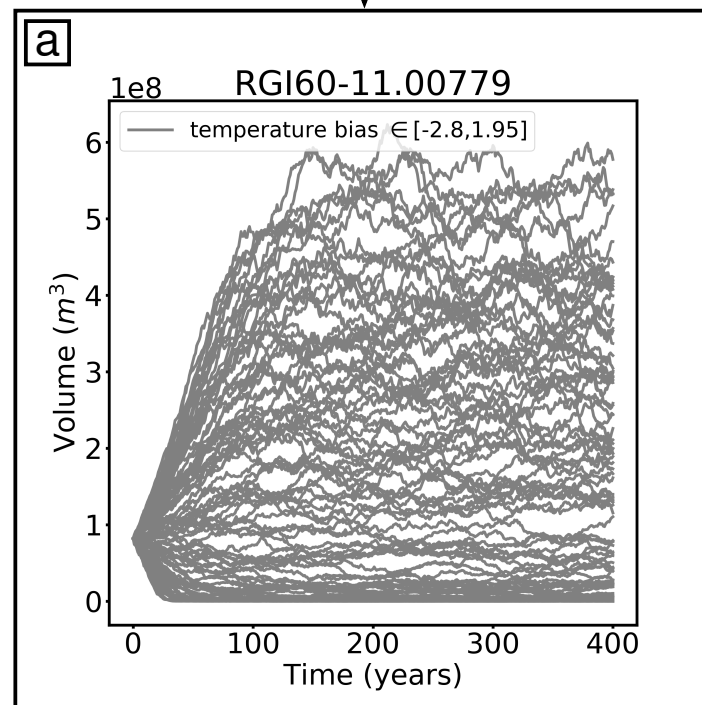


$s_{2000}^{obs}$ 

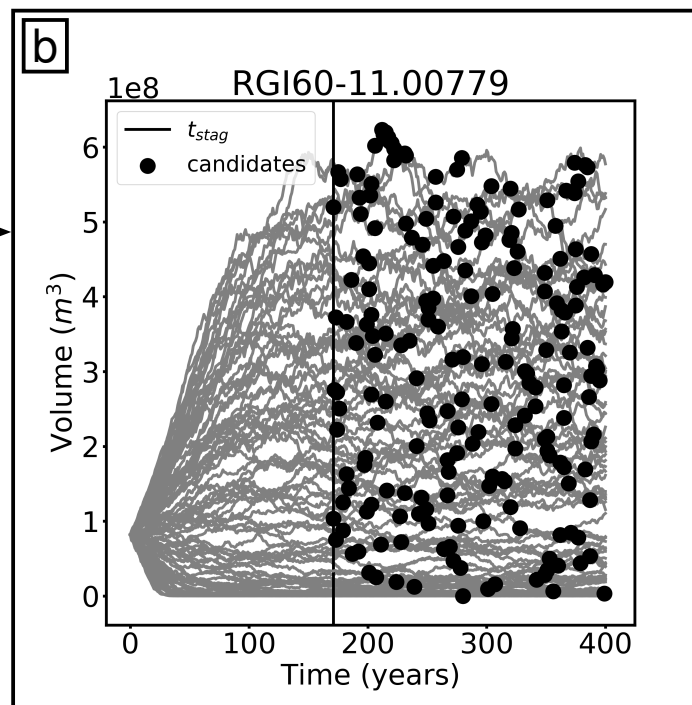
"observed" glacier

**Generation**

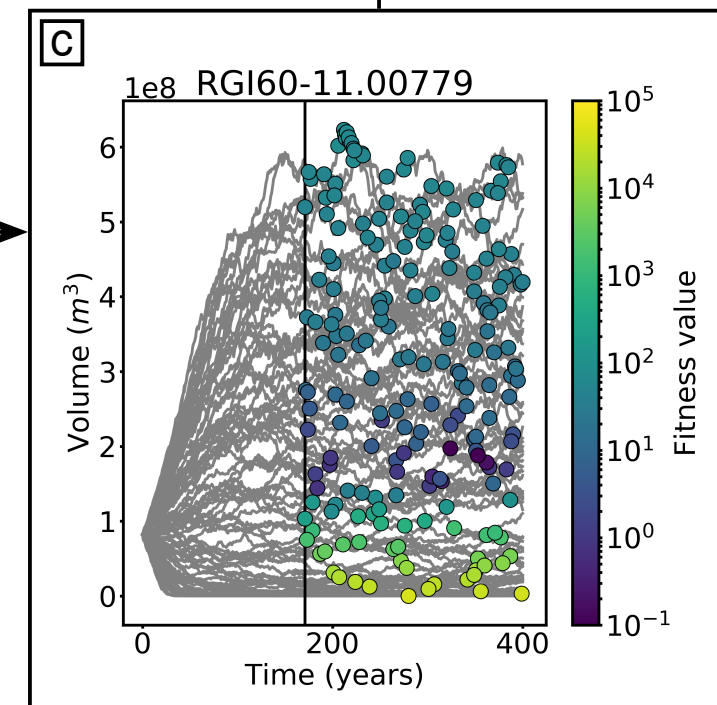
- 400 years with random climate
- different temperature biases

**Identification**

- find  $t_{stag}$  (begin of stagnation period)
- classification by volume ( $n$  equidistantly distributed classes)
- one candidate by class

**Evaluation**

- forward past climate run (1850-2000)
- fitness function:  
 $\| s_{2000}^{obs} - s_{2000}^{mod} \|_2^2$



time series of  
**possible  
glacier states**  
(sorted by fit-  
ness value)