(a) Archiving noise
- Averaged signal
  - $A_{\text{signal}}$
  - $r^2 = 0.5$
- Averaged noise
  - $A_{\text{noise}} = A_{\text{signal}}$
- Length of the record
- Filtered signal
  - $r^2 = 0.5$
- SNR = 1
- Climatic signal

(b) Measurement noise
- Averaged signal
  - $A_{\text{signal}}$
  - $r^2 = 0.5$
- Measurement noise
- Diffusion