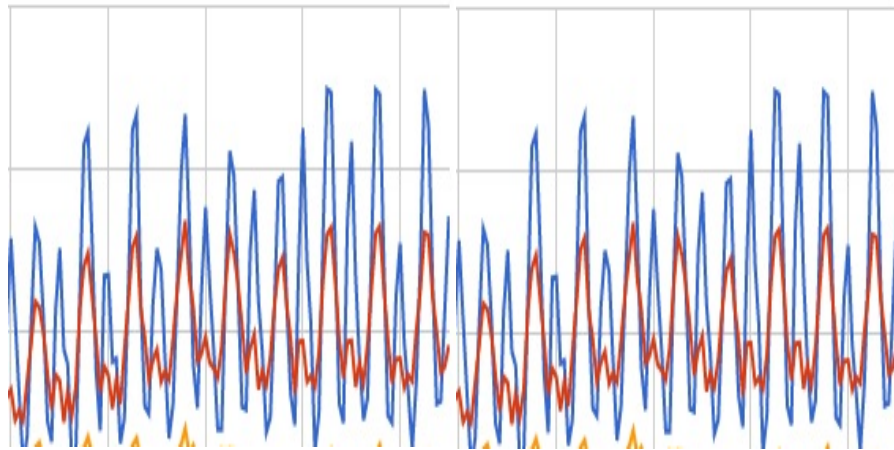


Temporal properties of variability: Relative Roughness

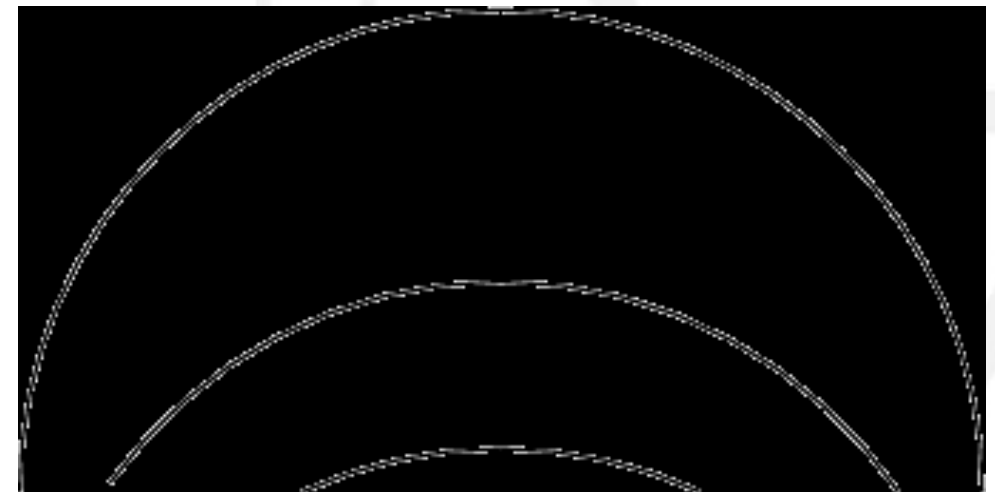
Relative roughness of a time series is:

$$RR = 2 * \left(1 - \frac{\text{local variance}}{\text{global variance}} \right)$$

Local variance:
Fast changes



Global variance:
Slow changes

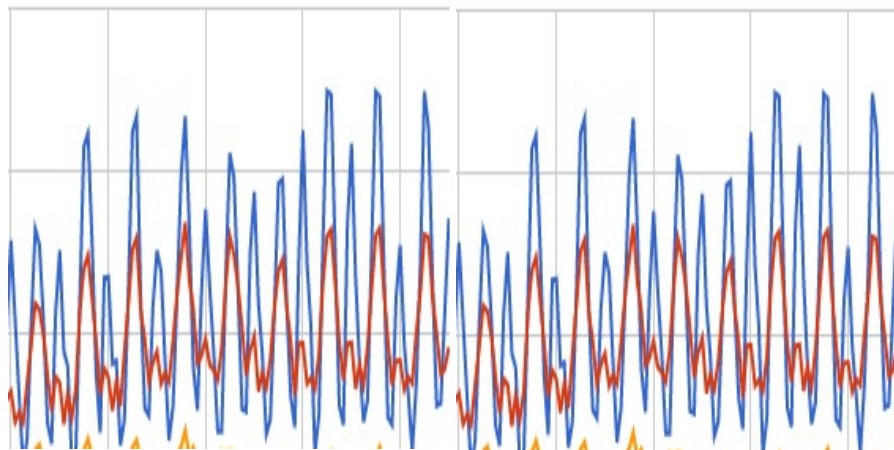


Temporal properties of variability: Relative Roughness

Relative roughness of a time series is:

$$RR = 2 \left[1 - \frac{\gamma_1(x_i)}{\text{Var}(x_i)} \right]$$

Local variance:
Fast changes



Global variance:
slow changes

