$$r = \frac{\sum_{i=1}^{N_\mathrm{t}} \left(s_\mathrm{B}(t_i) - \hat{s}_\mathrm{B} \right) \left(A(t_i) - \hat{A} \right)}{\sqrt{\sum_{i=1}^{N_\mathrm{t}} \left(s_\mathrm{B}(t_i) - \hat{s}_\mathrm{B} \right)^2} \sqrt{\sum_{i=1}^{N_\mathrm{t}} \left(A(t_i) - \hat{A} \right)^2}}$$