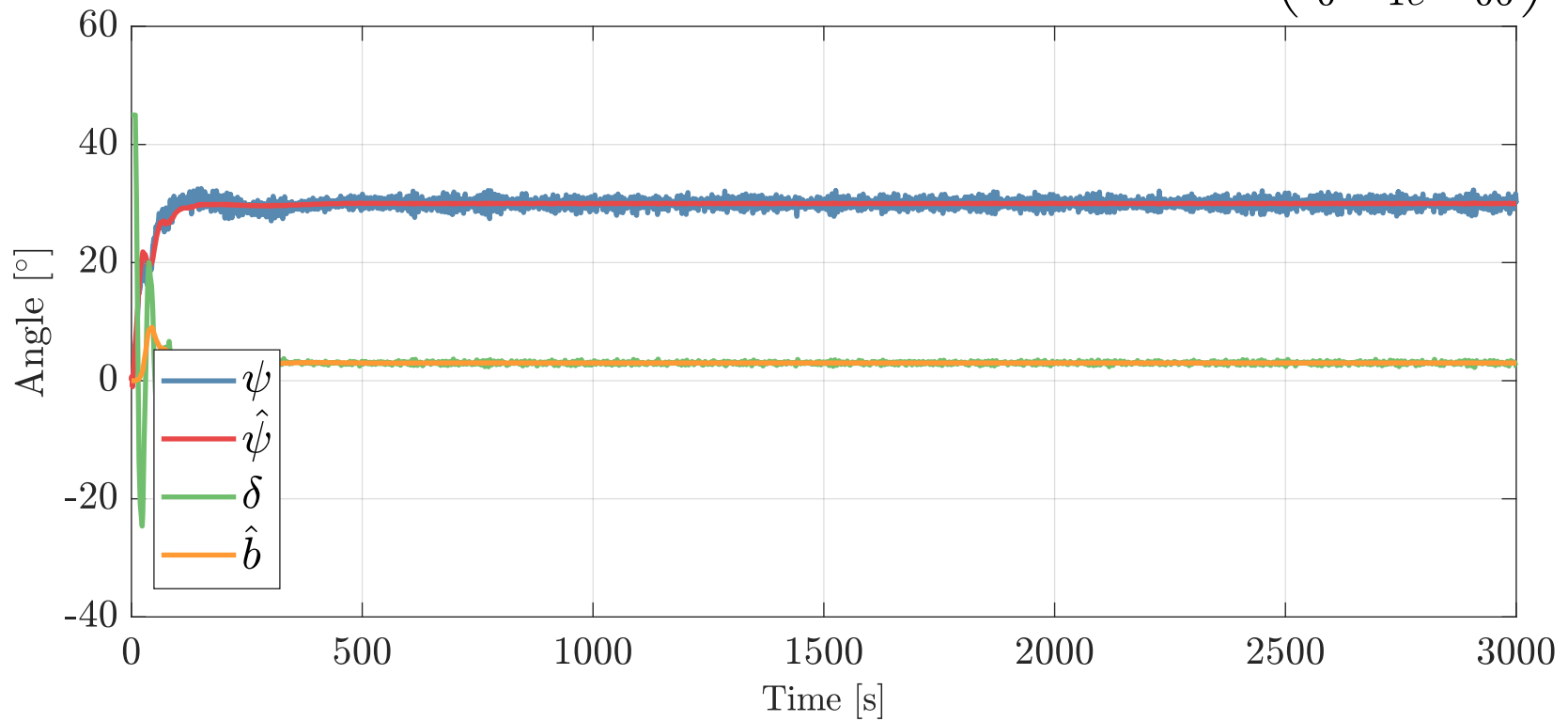Heading with Kalman filter with $\hat{\psi}$ as feedback to controller. $\mathbf{Q} = \begin{pmatrix} 30 & 0 \\ 0 & 1e-06 \end{pmatrix}$

Measured wave influence vs estimated wave influence. $\mathbf{Q} = \begin{pmatrix} 30 & 0 \\ 0 & 1e-06 \end{pmatrix}$