of the function varies smoothly with a typical lengthscale of 33.2 years. The shape of the function within each period has a typical lengthscale of 12.6 years. This component applies until 1644 and from 1719 onwards.

This component explains 72.2% of the residual variance; this increases the total variance explained from 72.5% to 92.3%. The addition of this component reduces the cross validated MAE by 16.42%

This component is approximately periodic with a period of 10.8 years. Across periods the shape

Component 4: An approximately periodic function with a period of 10.8 years. This

function applies until 1644 and from 1719 onwards

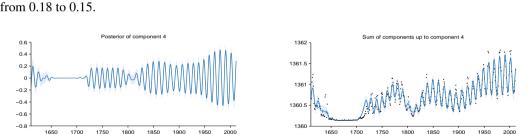


Figure 5: Posterior of component 4 (left) and the posterior of the cumulative sum of components with data (right)