

## 2.2 Component 2 : An approximately periodic function with a period of 1.0 years and with approximately linearly increasing amplitude

This component is approximately periodic with a period of 1.0 years and varying amplitude. Across periods the shape of this function varies very smoothly. The amplitude of the function increases approximately linearly. The shape of this function within each period has a typical lengthscale of 6.1 weeks.

This component explains 95.1% of the residual variance; this increases the total variance explained from 86.2% to 99.3%. The addition of this component reduces the cross validated MAE by 70.47% from 32.42 to 9.57.

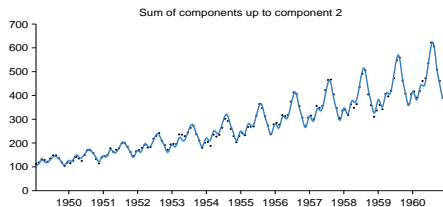
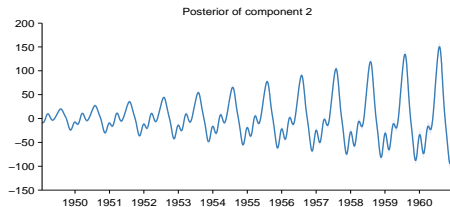


Figure 3: Posterior of component 2 (left) and the posterior of the cumulative sum of components with data (right)