Covariance Estimates of the Time Varying Transmission Rate  $\beta$  with  $\alpha_{reg} = 1e7$ March April May June - 0.3 Time Varying Transmission Rate eta- 0.2 July August September October
Tube F 0.1 0.0 -0.1November ] -0.2January
February

February

Septe Betovernber ary

Septe Betovernber ary

Septe Betovernber ary -0.3

Time Varying Transmission Rate  $\beta$