In the USA by the end of May the number of active infected cases has not yet peaked and the cumulative total number of infections keeps getting bigger. This can be accounted for in our eSIR model by considering how the susceptible population changes with time in May. In May to match the data to the model predictions, surge periods were used where the normalized population *S* was reset to 0.2 every four days. What now is happening in the USA is that as susceptible individuals become infected, the susceptible population decreases and then these infected individuals mix with the general population, leading to an increase in susceptible population. This is shown in the model by the variable for the susceptible population varying from almost zero to 0.2 repeatedly during May. Until this vicious cycle is broken, the cumulative total infected population will keep growing at a steady rate and not reach an almost steady-state value. The fluctuating normalized susceptible variable provides clear evidence that government authorities do not have the spread of the virus under control.

Not sure if my inferences are correct – but it looks like an interesting observation – wording may need to be improved if you want to include this observation in our paper.





