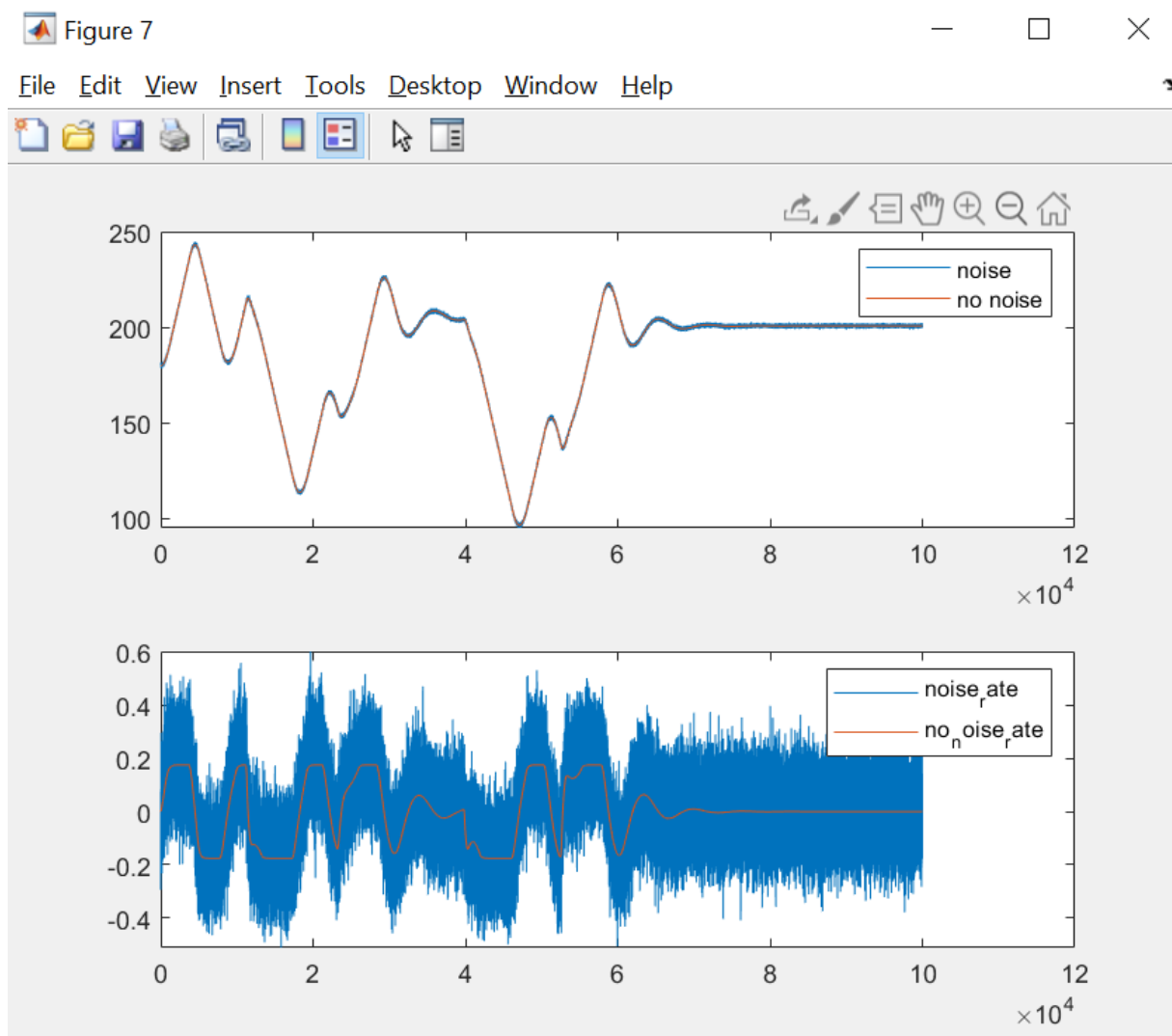
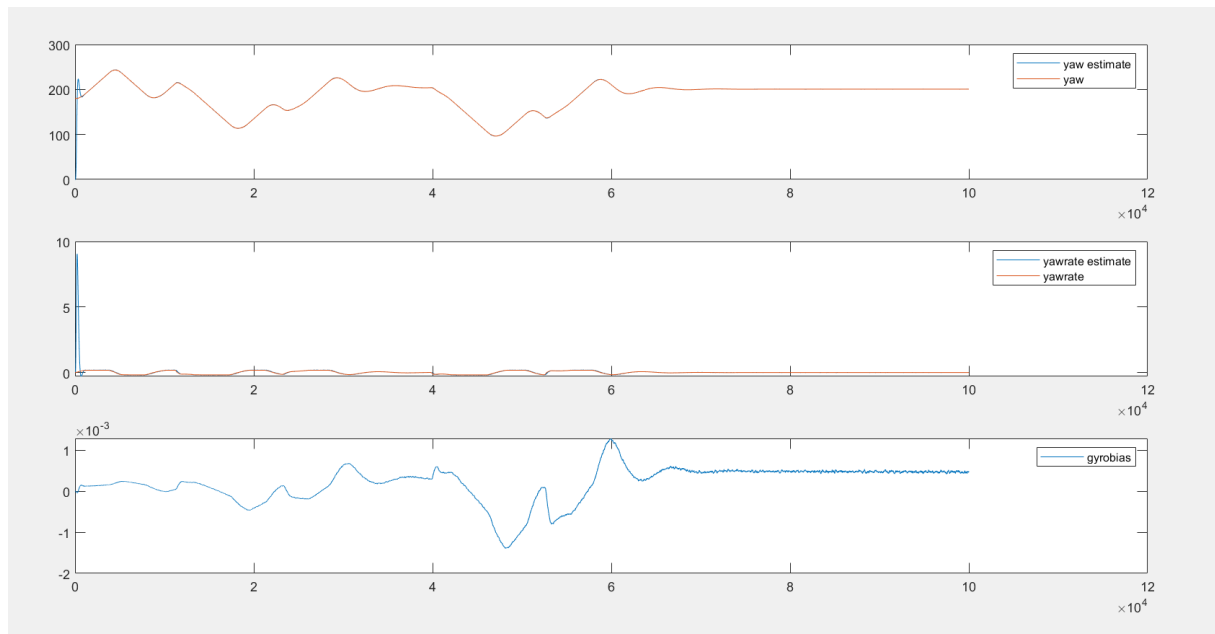


Task2a)



Yaw øverst, yawrate nederst 😊

Task2b)



Very nice 😊

Task2c)

Figure 2

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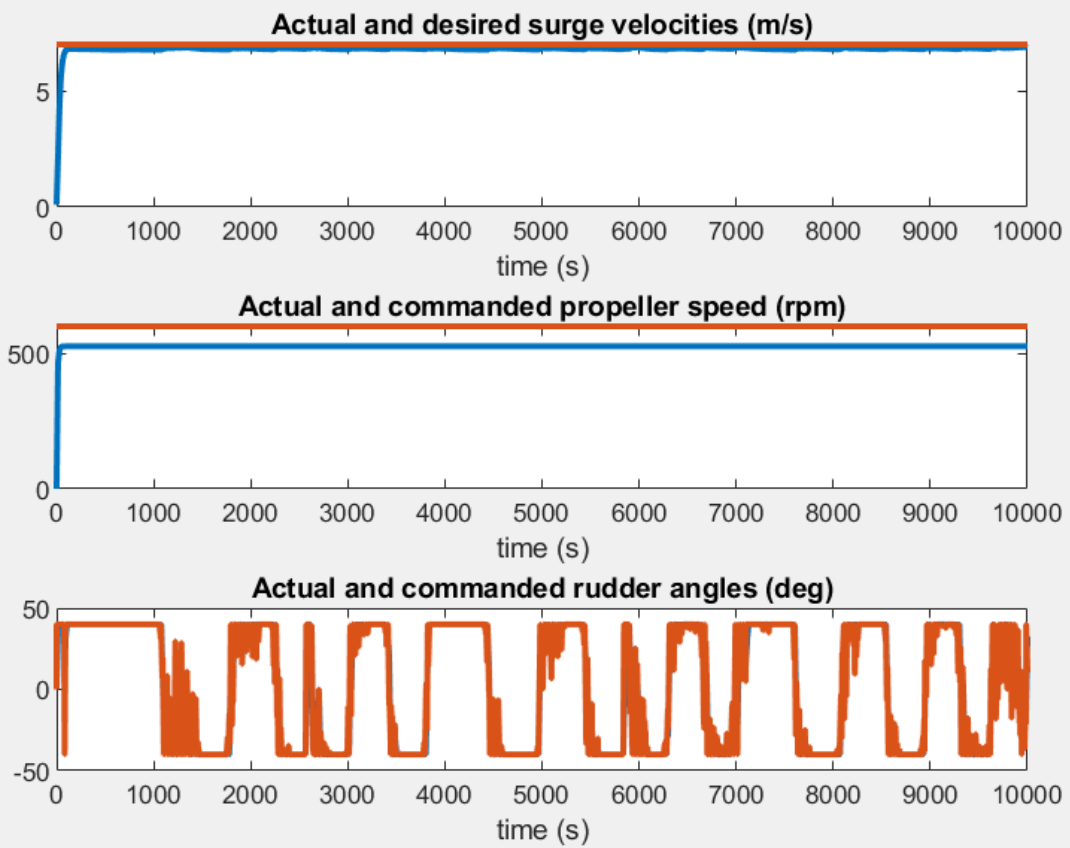
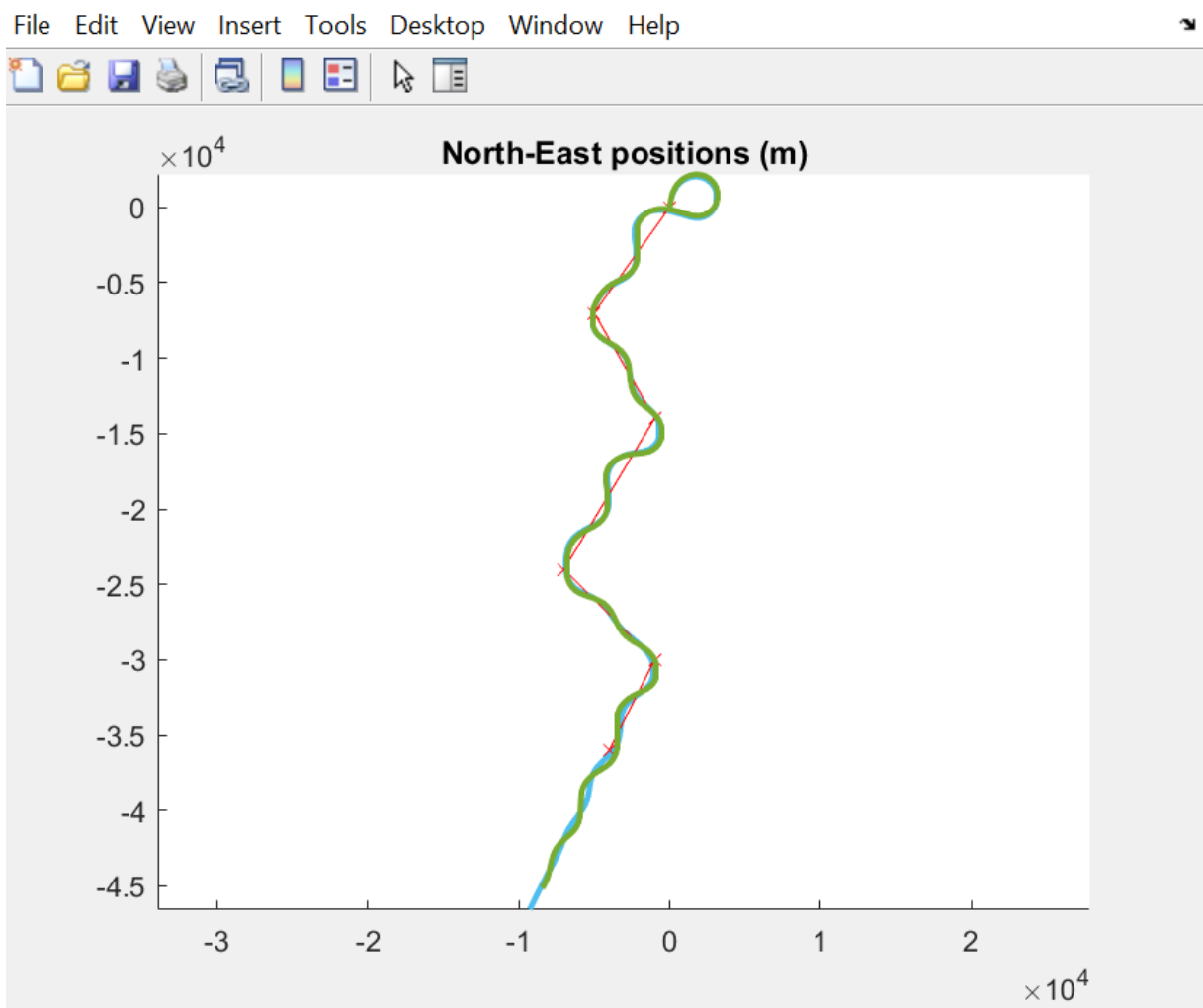
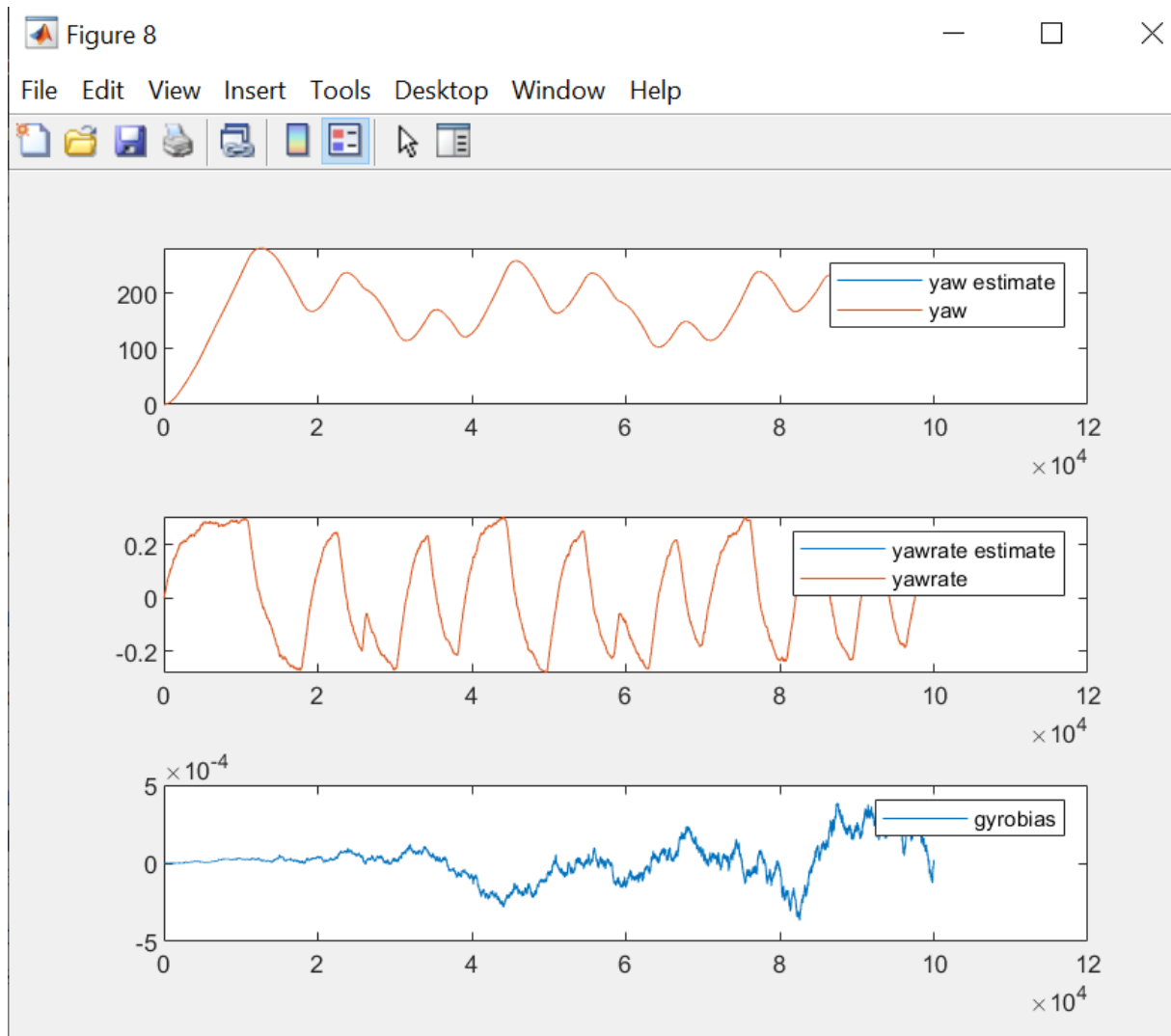


Figure 4





Looks good. Some bad tuning of the ILOS which gives the snakey trajectory, but the kalman filter works great. You cant see any difference between the estimates and the actual states in the plots so the behavior should be identical. Zooming in (trust me) there is a difference in the beginning, but it quickly converges 😊

Task2d)

So I turn off the waypoints and updating psi_ref? Then it works exactly the same way, just with a constant reference. Perhaps I misunderstood. Here are the plots

Figure 1

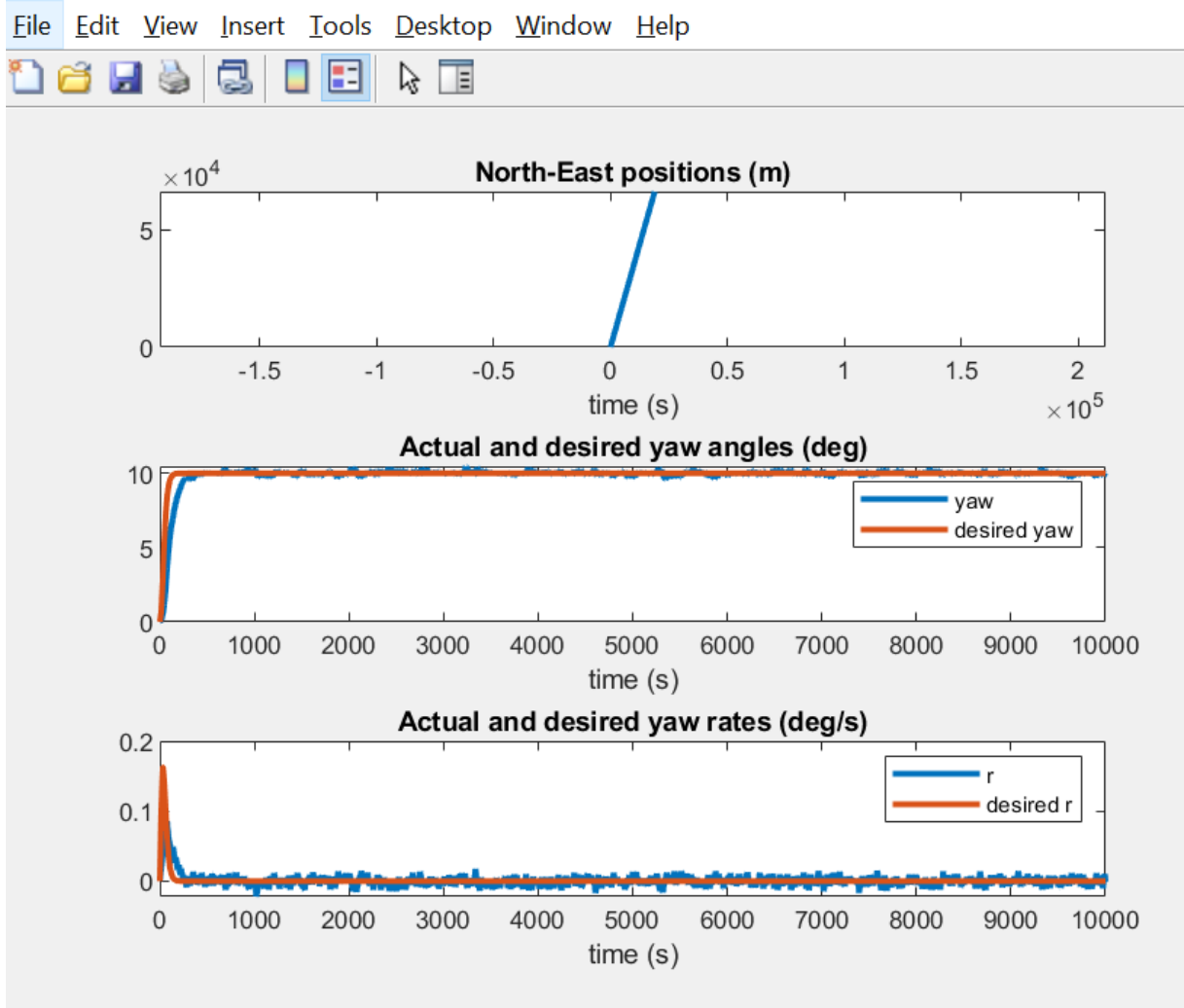
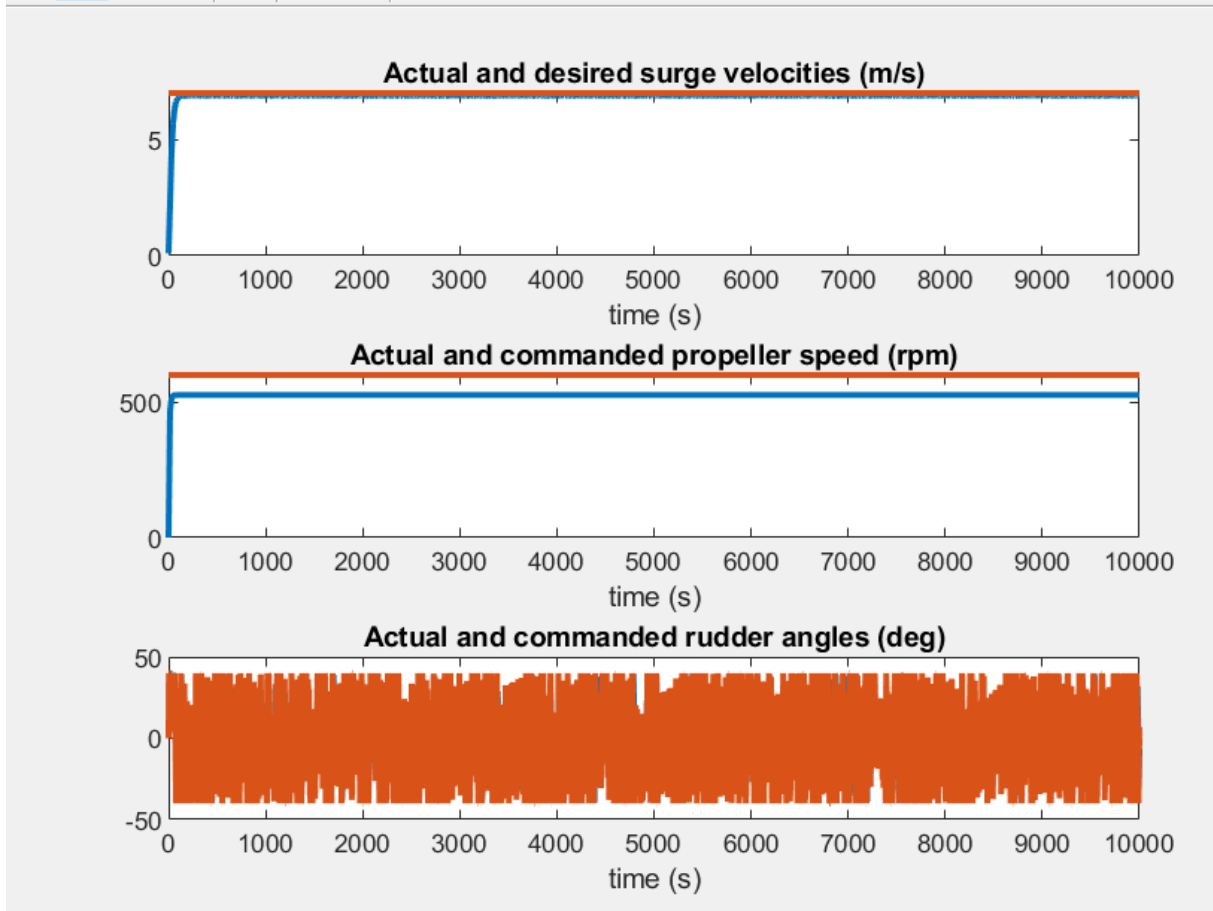




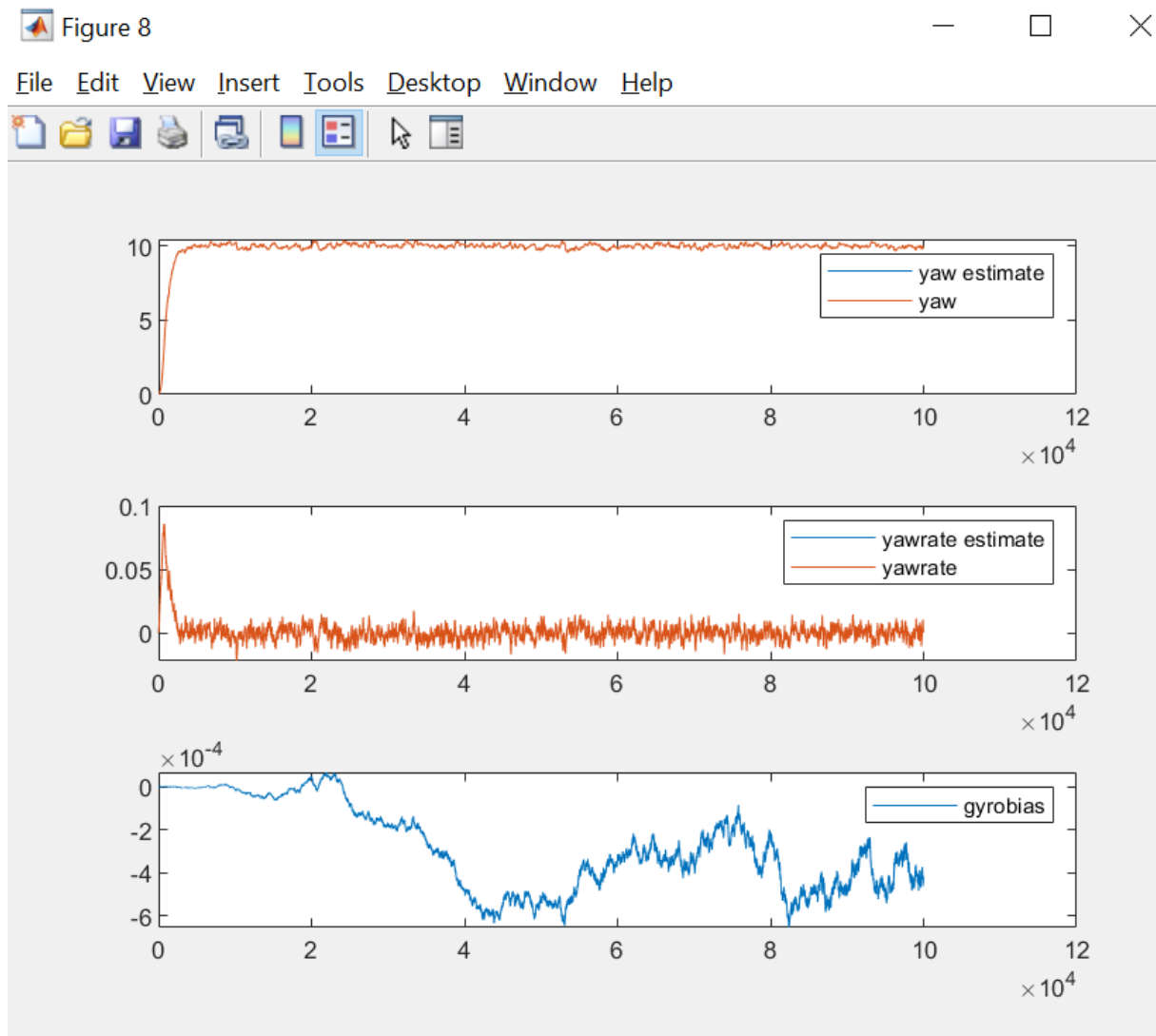
Figure 2



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Yikes



The estimates are still excellent, but the values themselves are more noisy and varying. Should be stable with a constant reference.