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model_check.m

UAV_SIL Model Verification

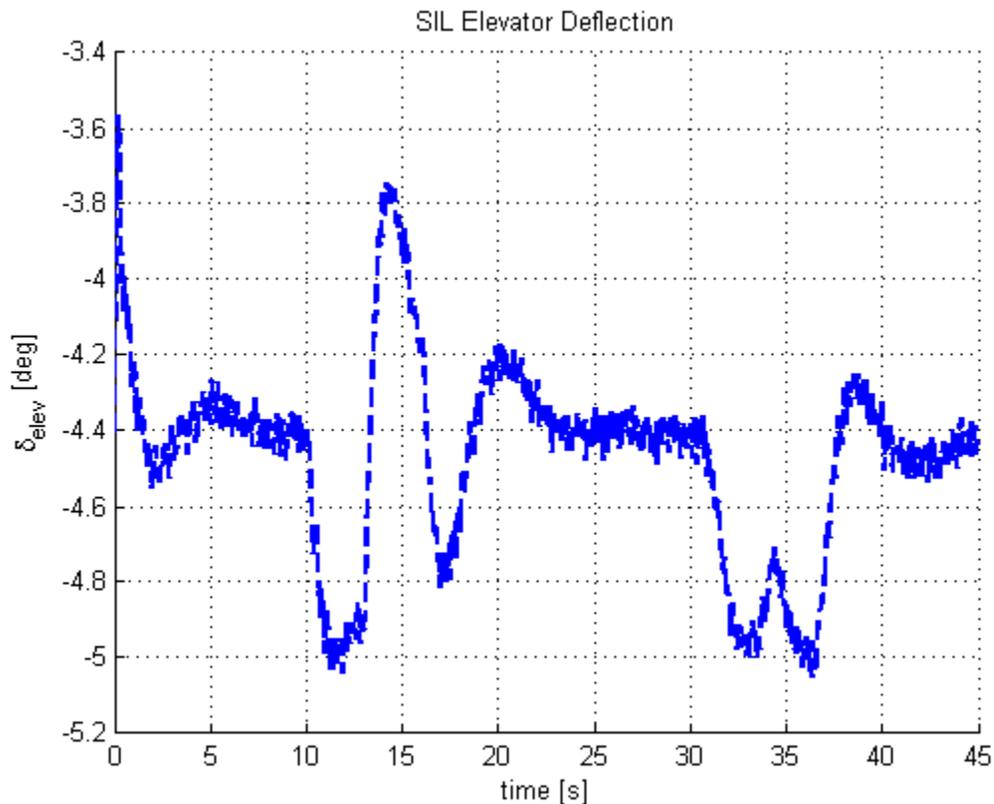
This script runs "plot_and_save.m", which plots the pitch and roll angle doublet response using the current simulation model and controller. These results are compared to a stored simulation run of the same inputs using the LQR controller. Users can use this script to evaluate and compare the performance of their controller or model relative to a flight tested baseline.

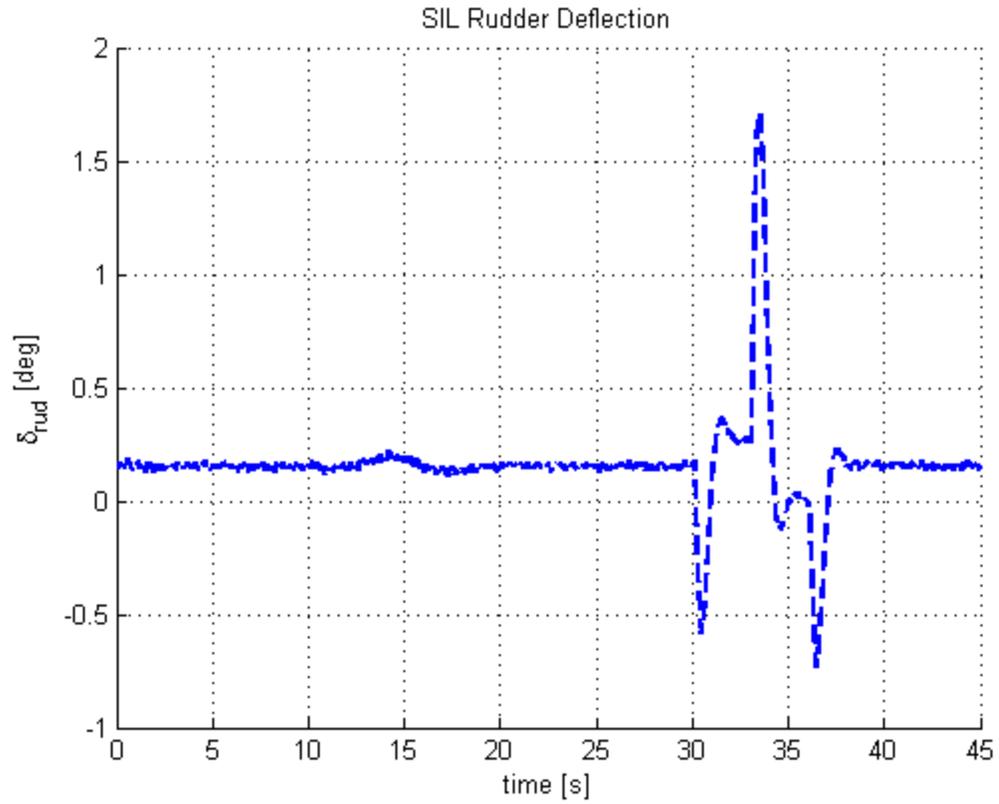
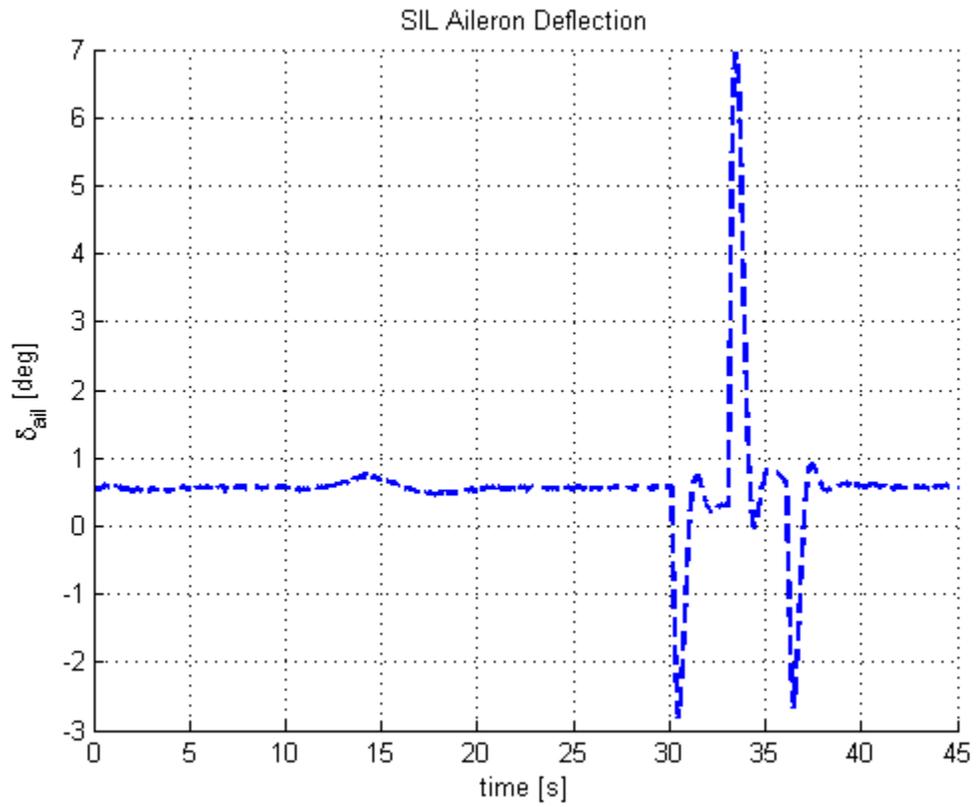
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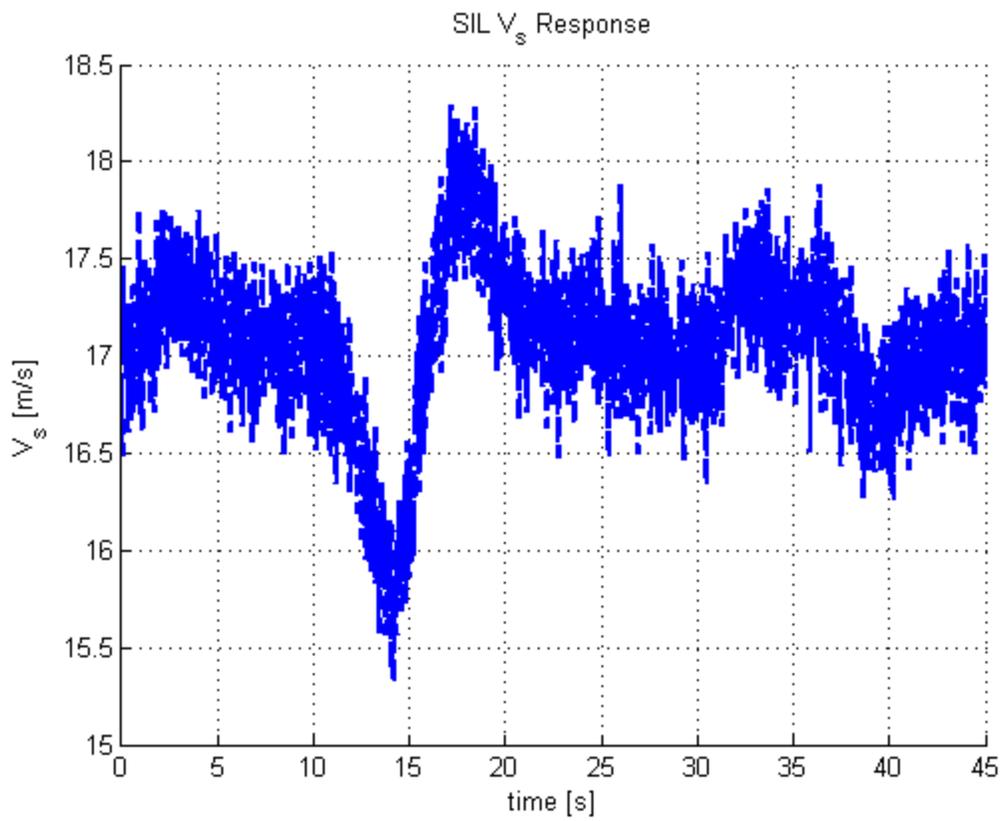
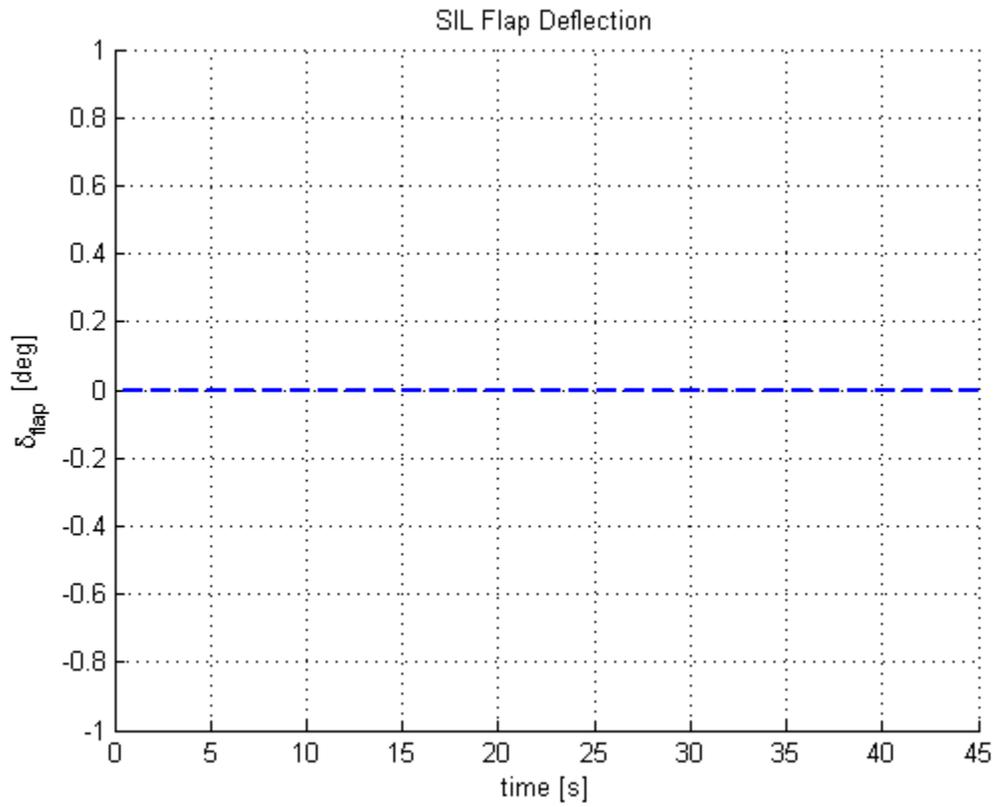
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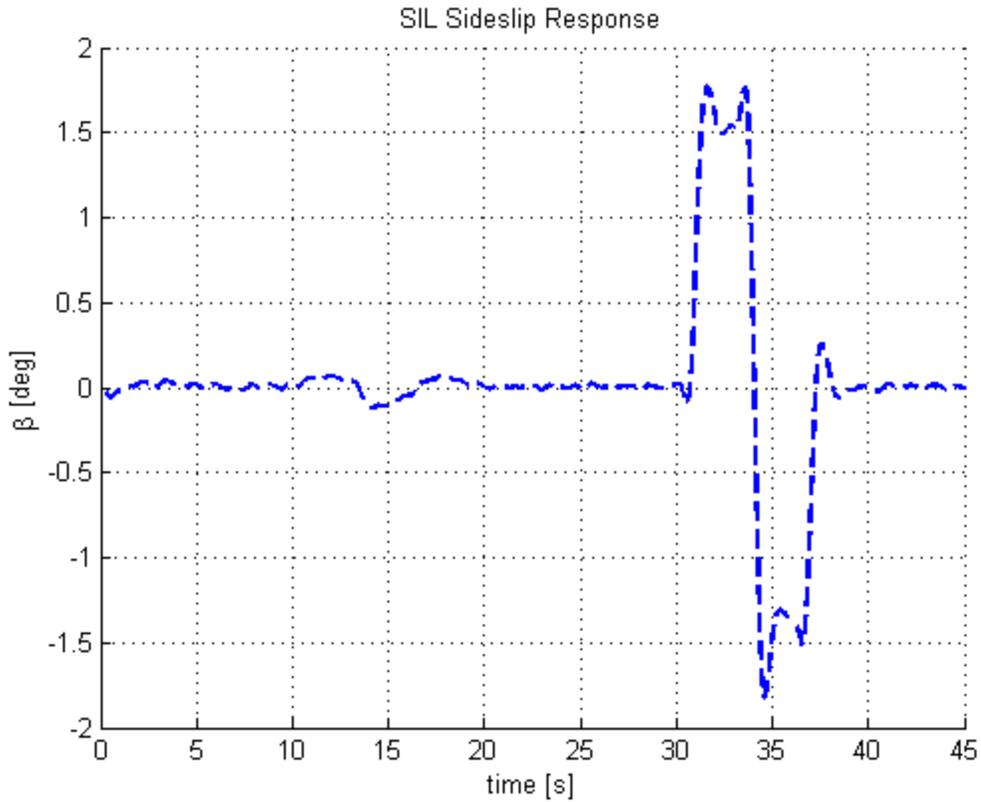
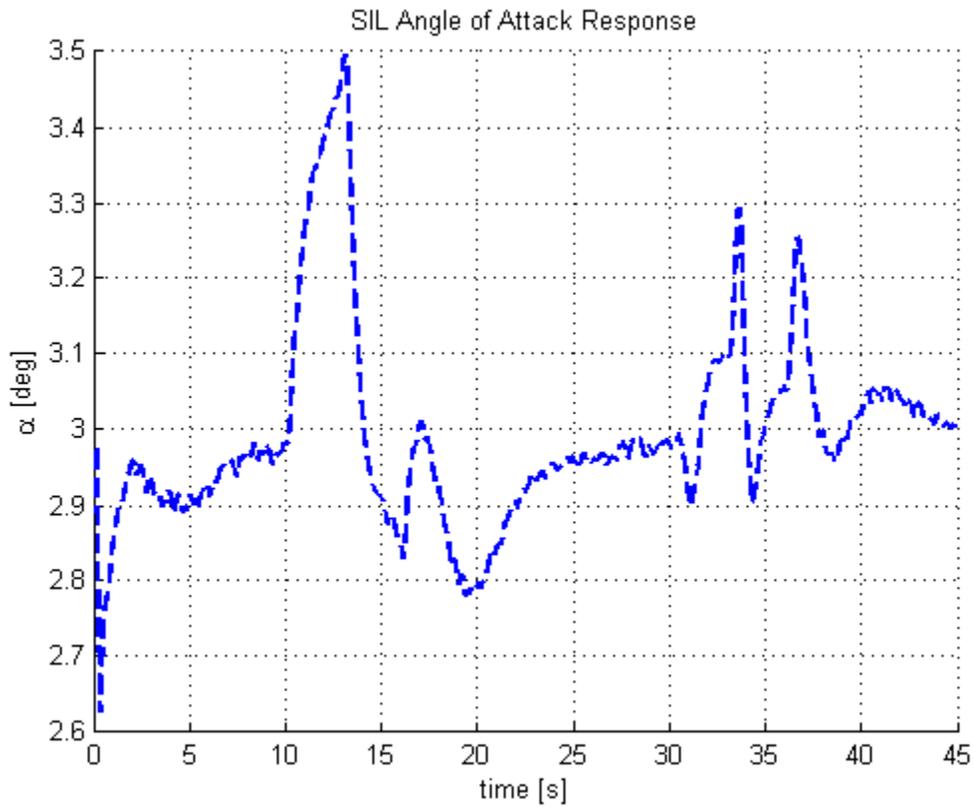
Current Model and Controller Results

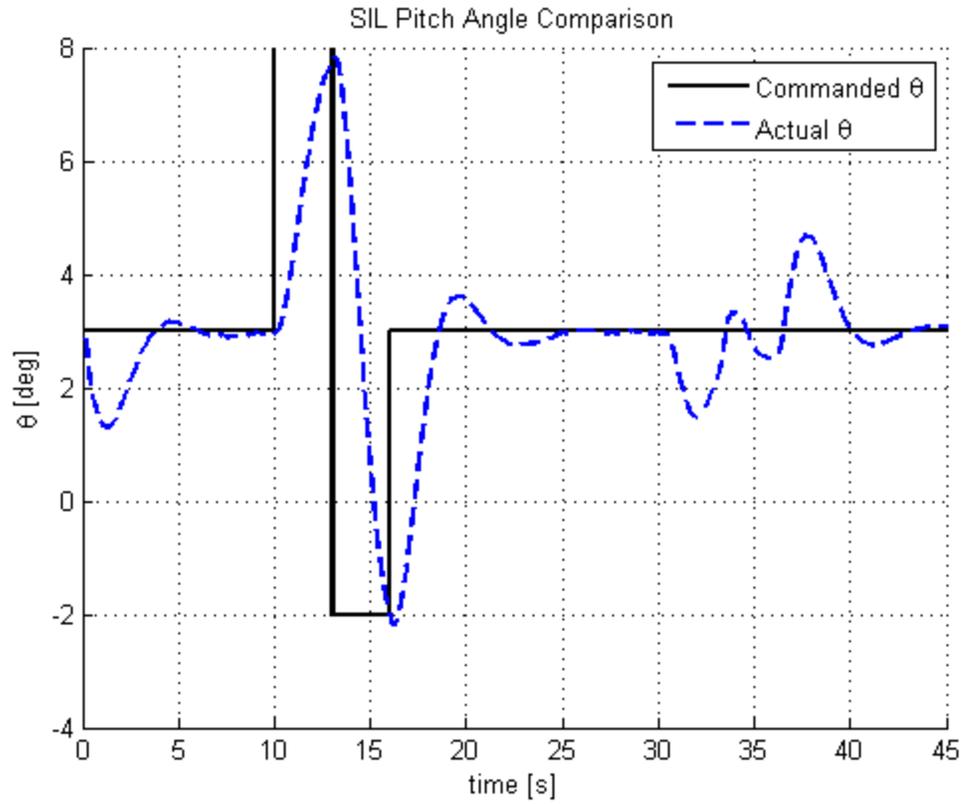
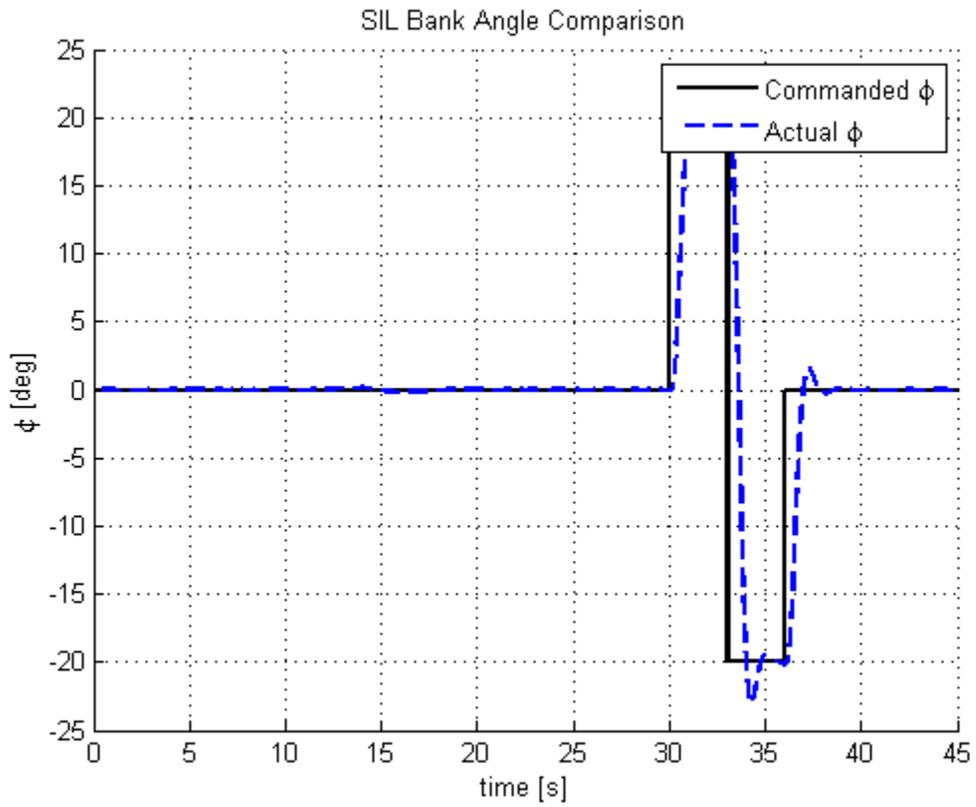
This section shows the current simulation results.

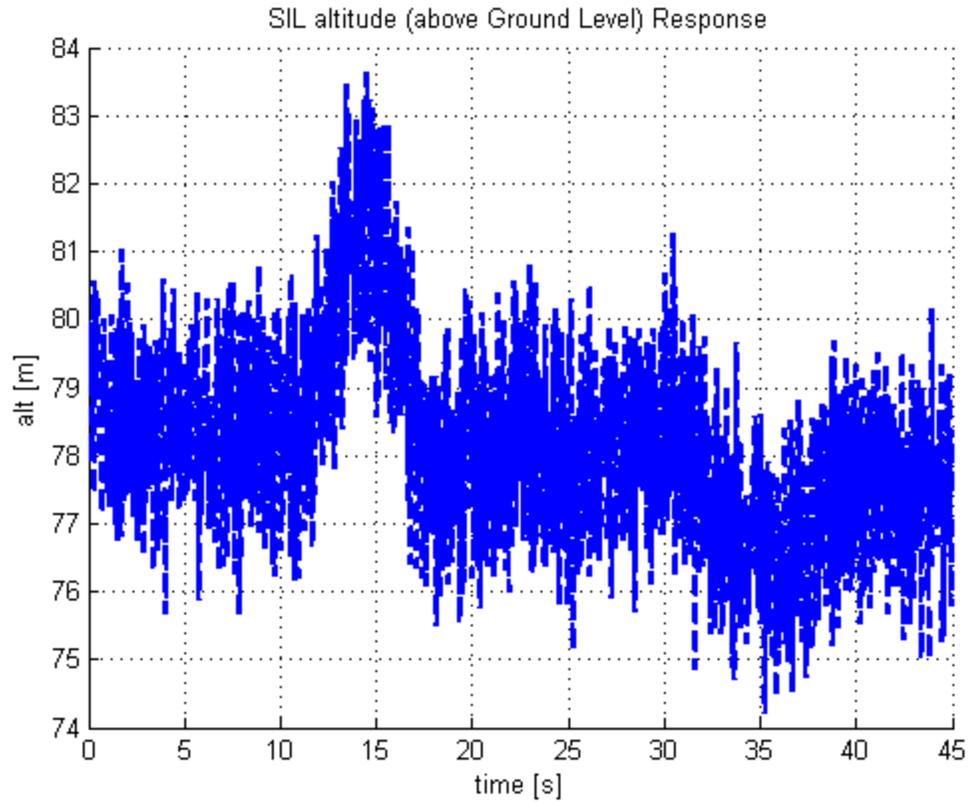
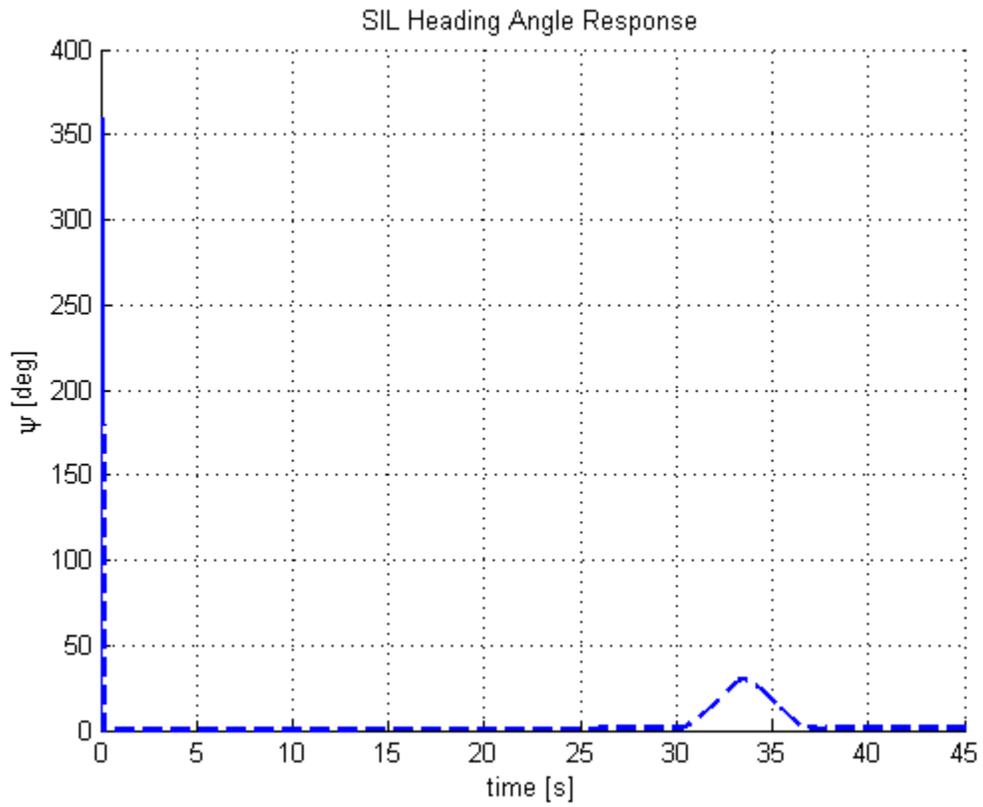


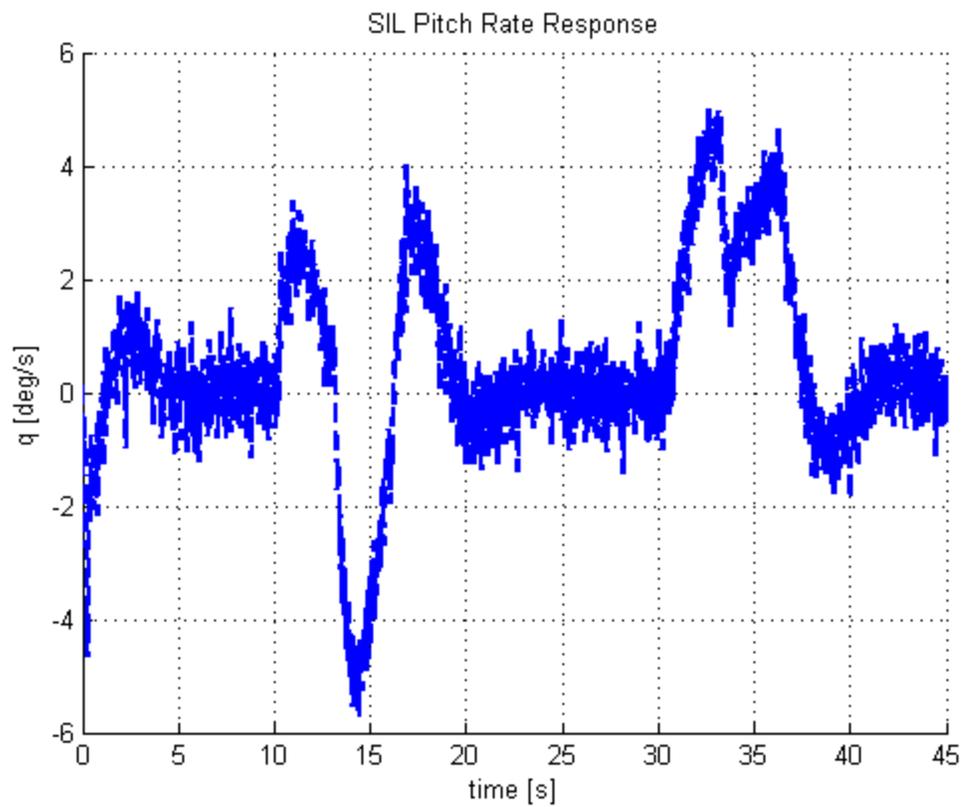
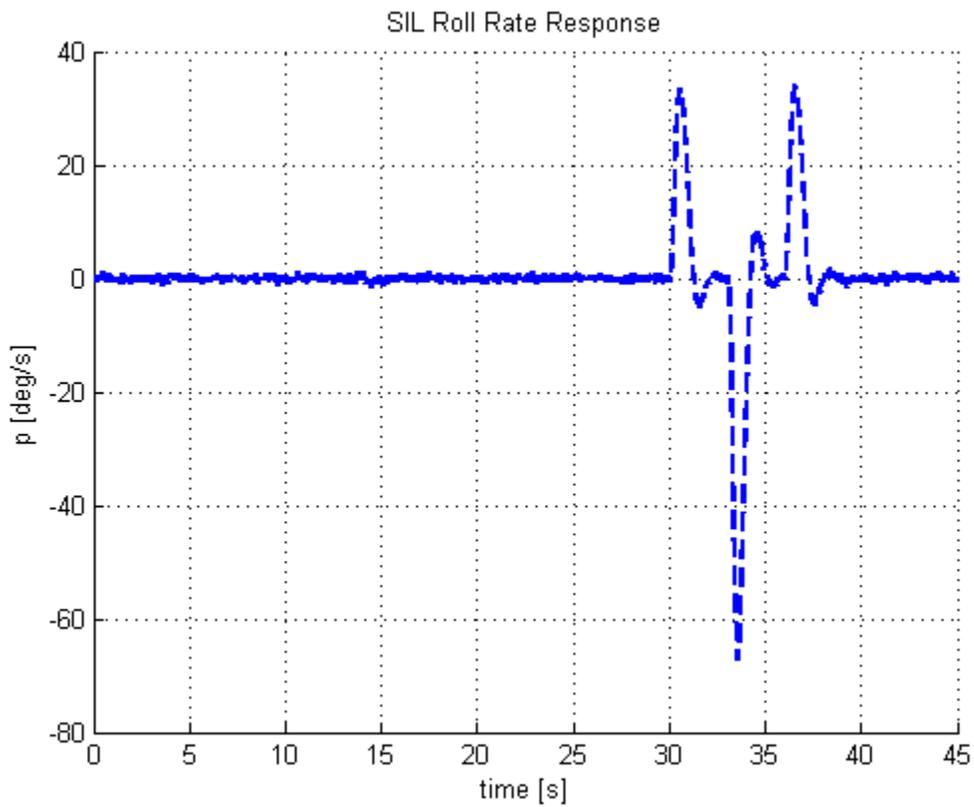


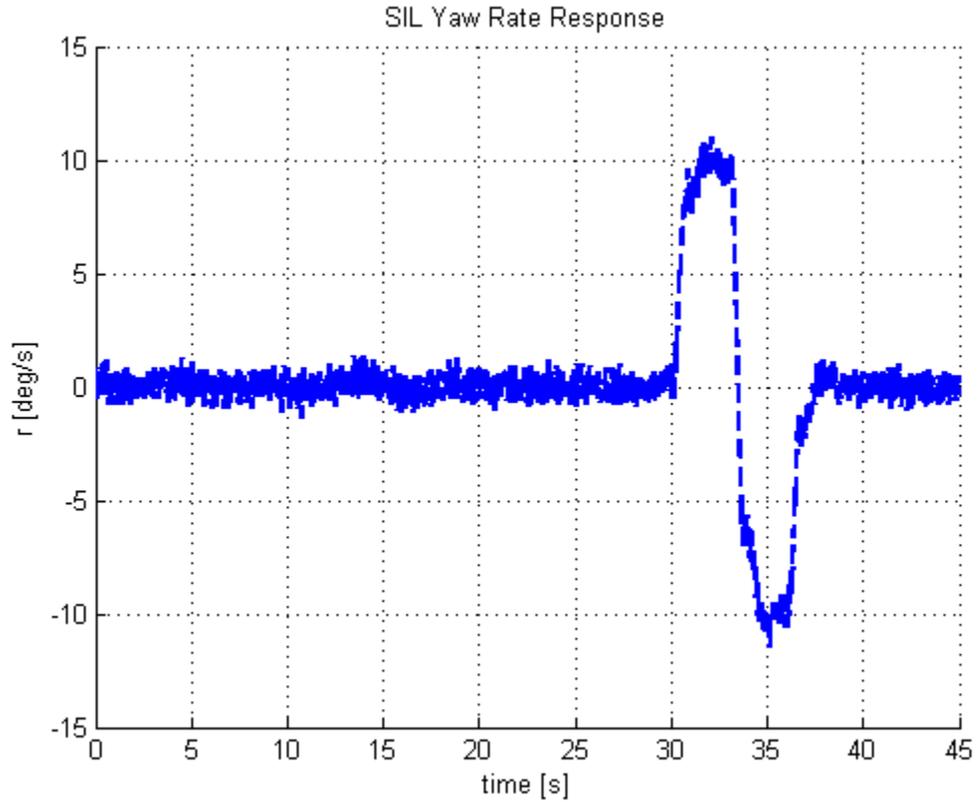






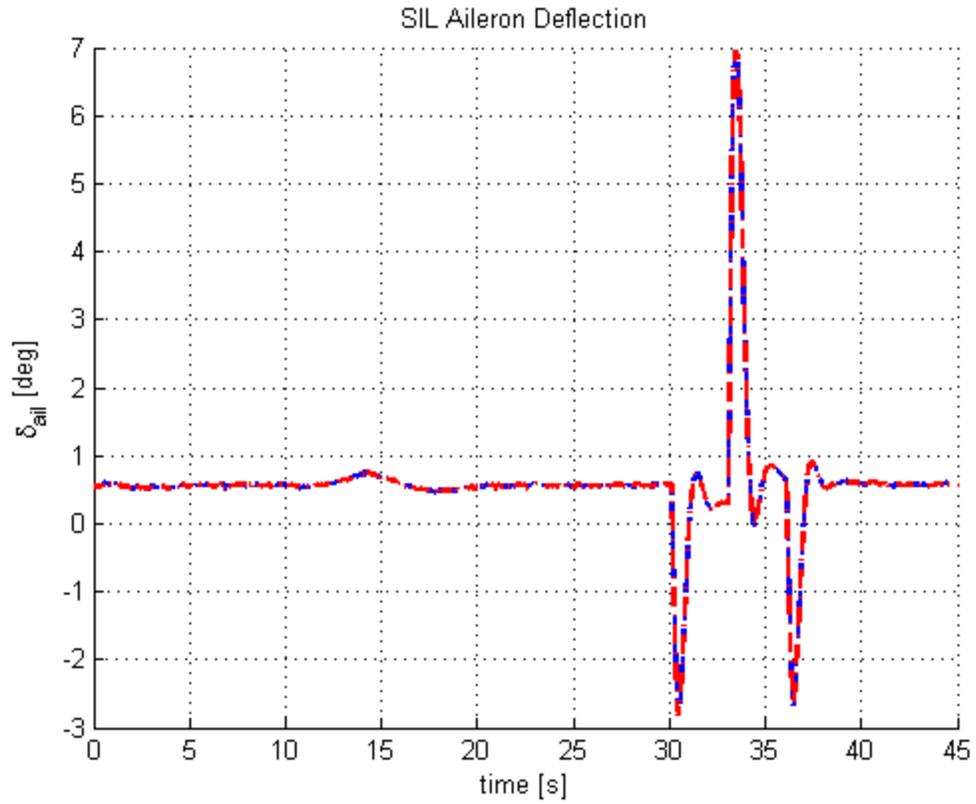
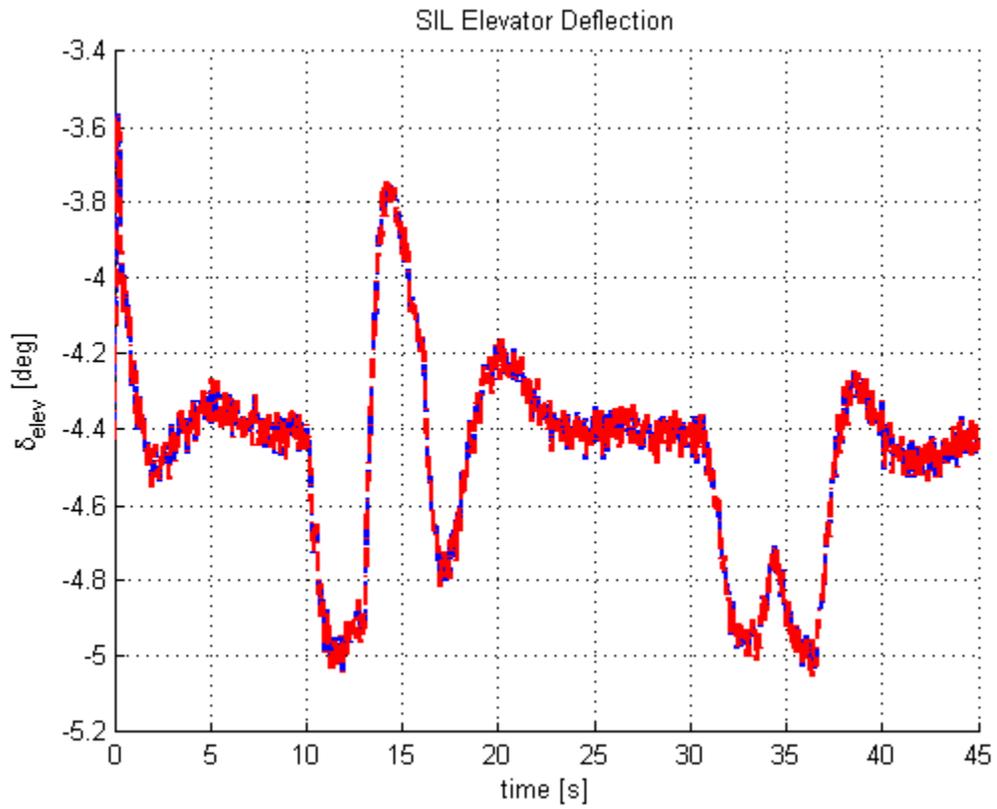


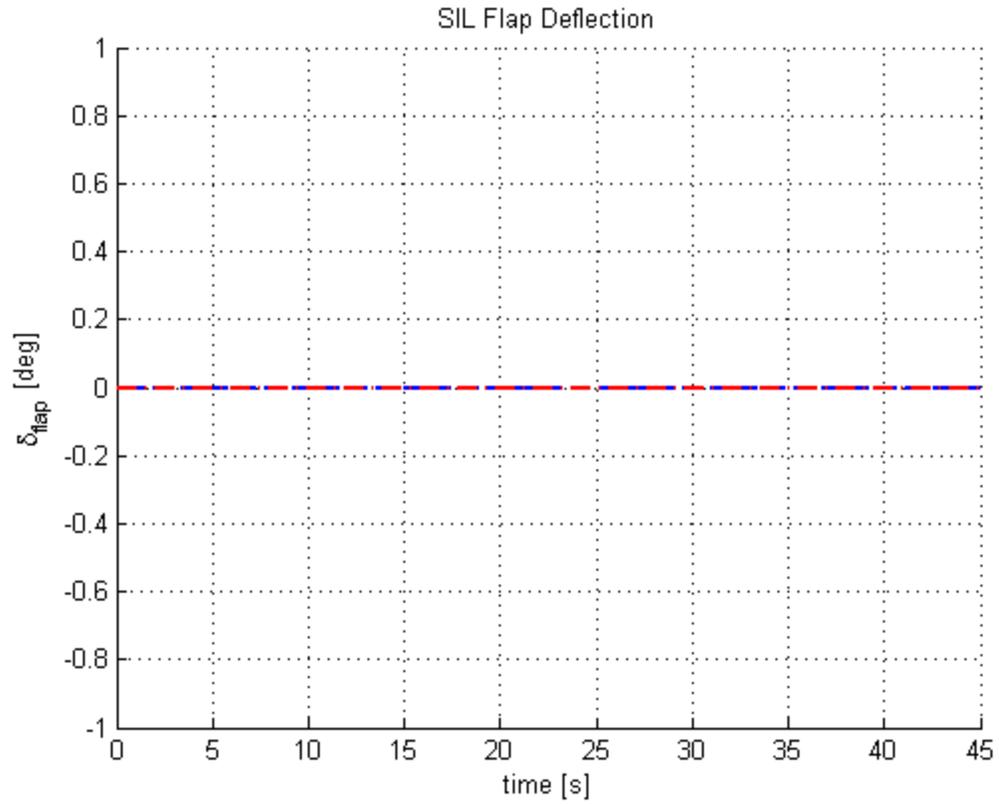
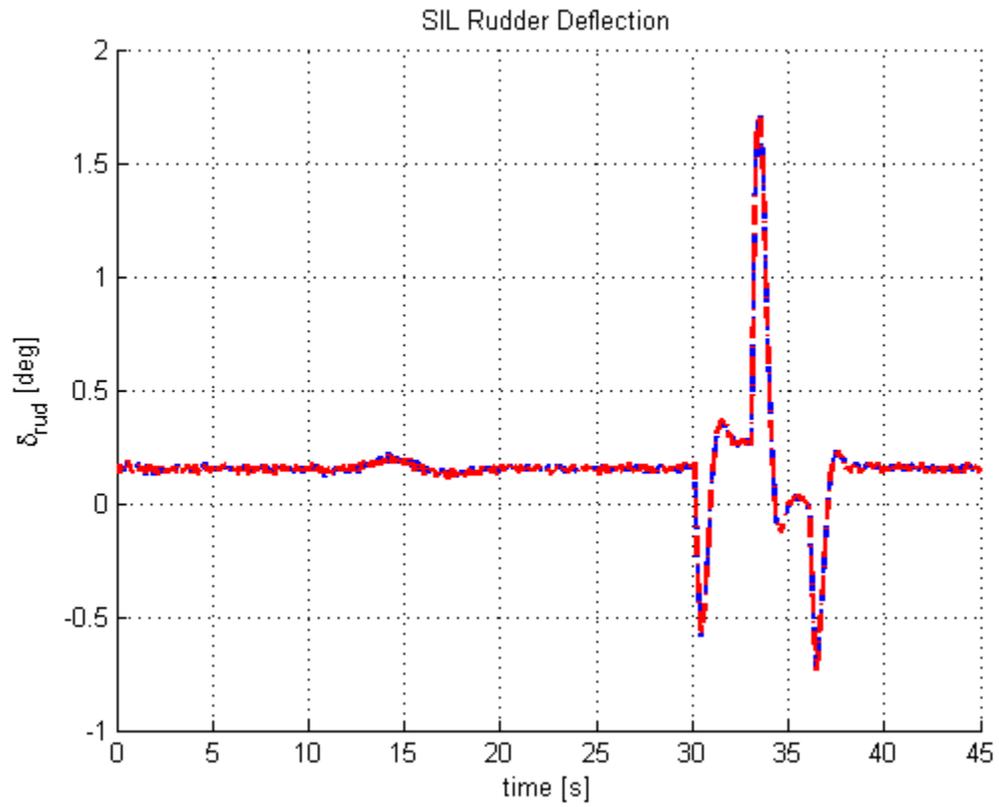


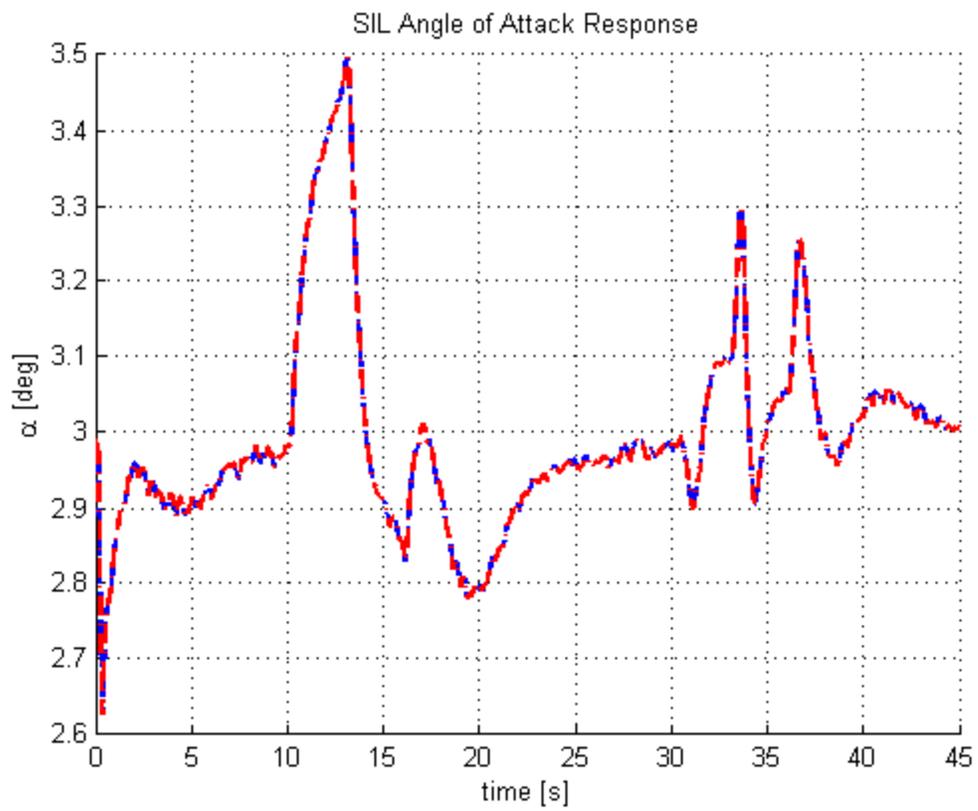
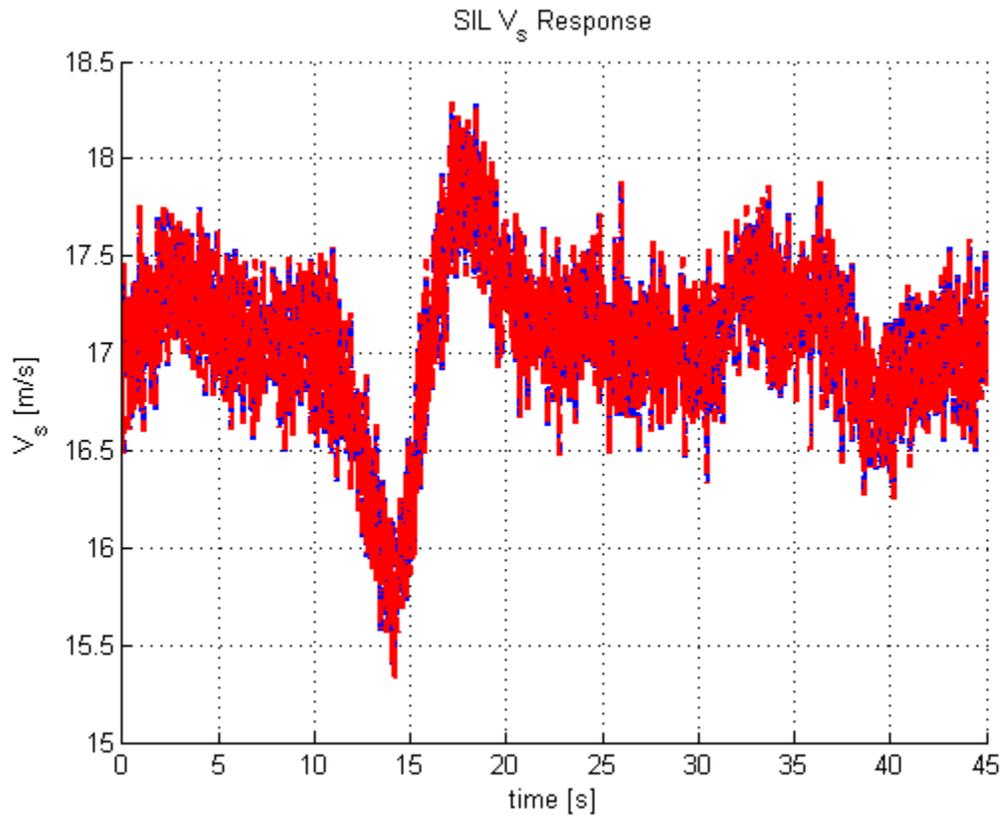


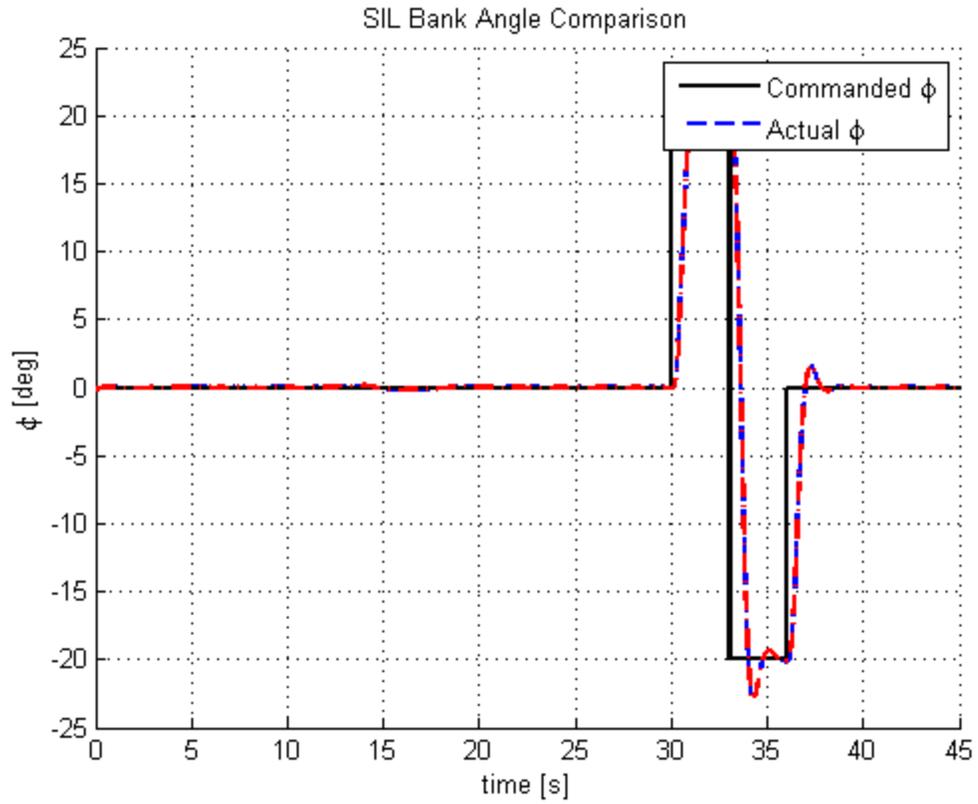
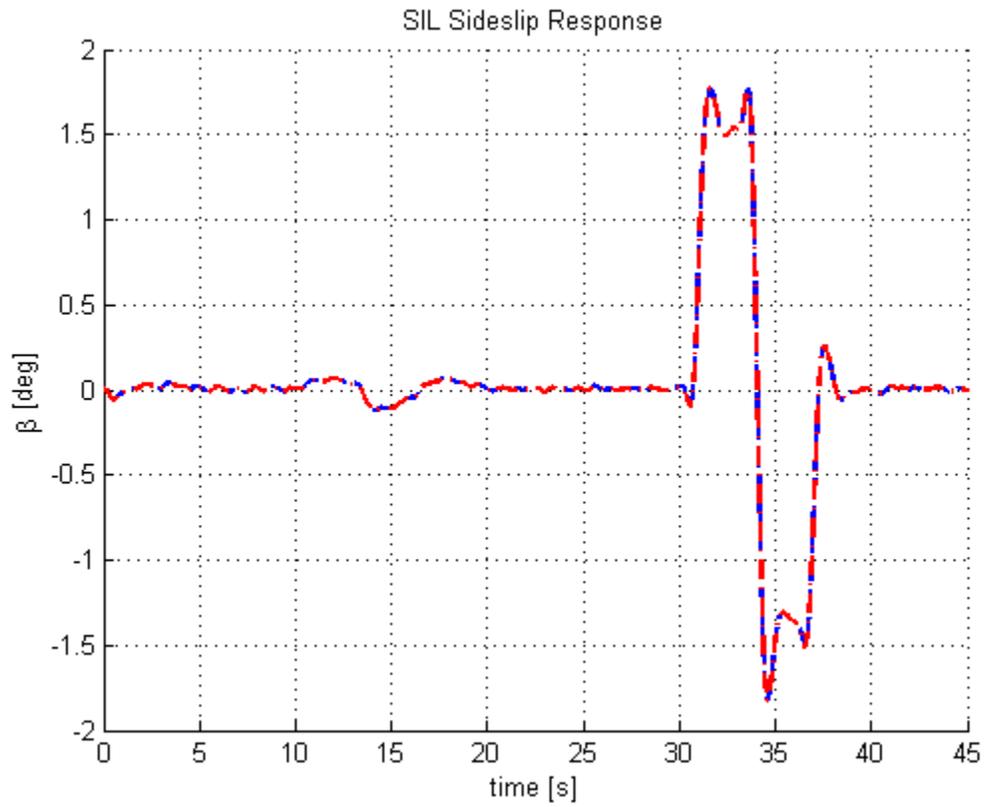
Current Model and Controller Compared to Checkcase Data

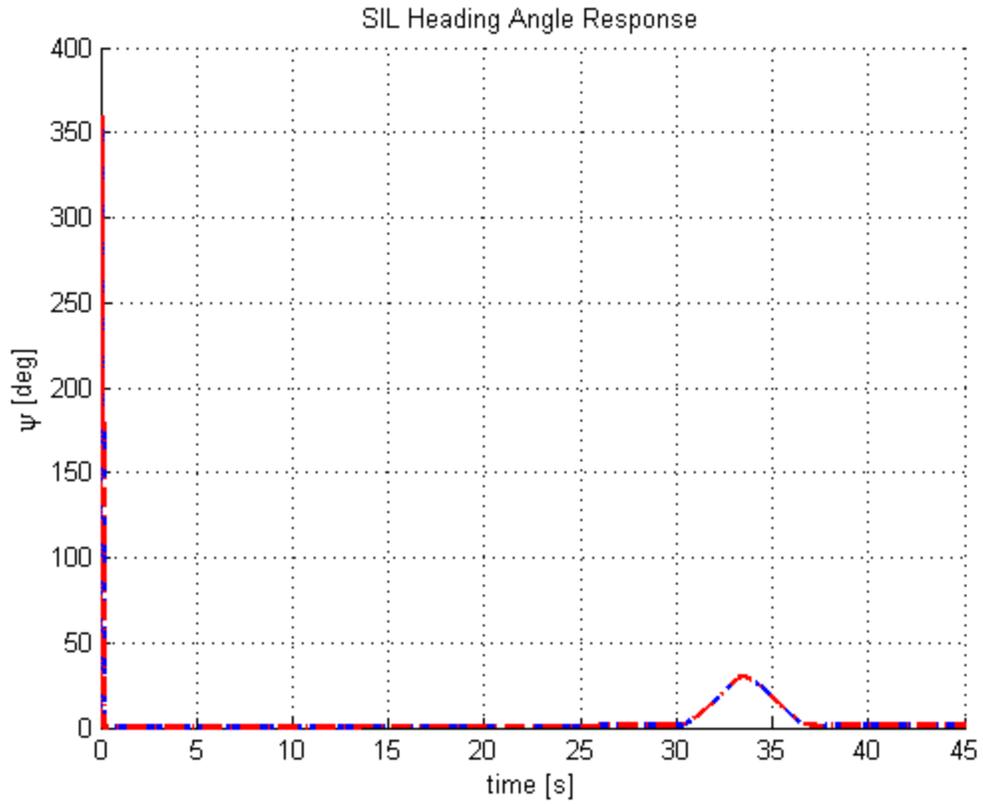
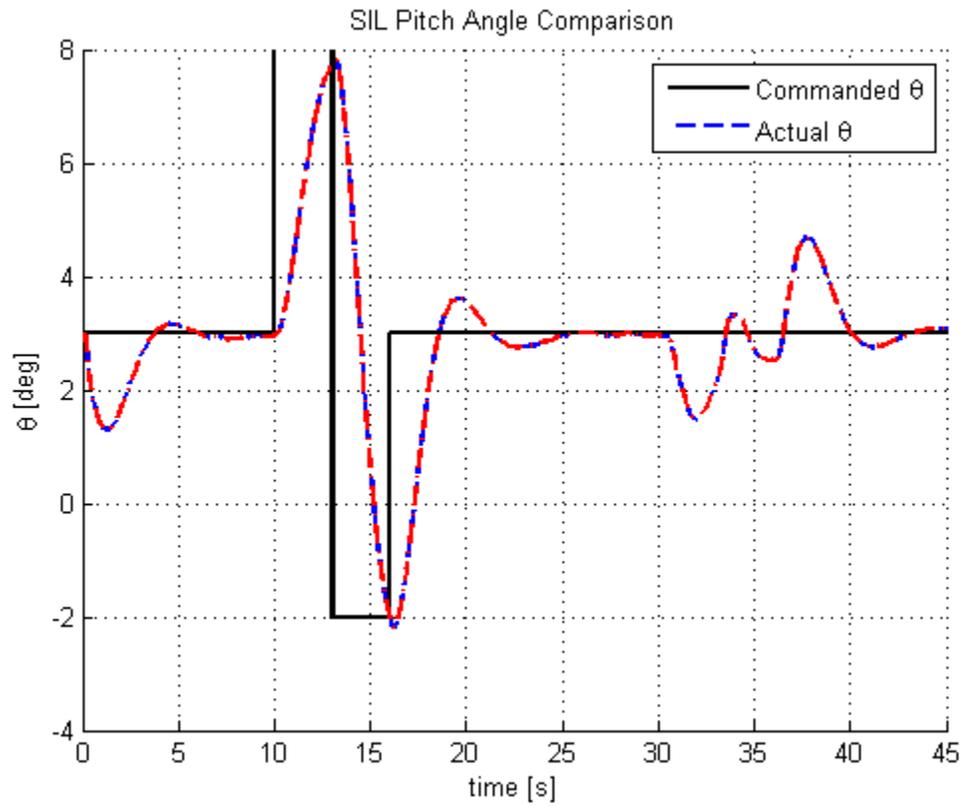
Here the current model results (blue) are compared to the checkcase data (red).

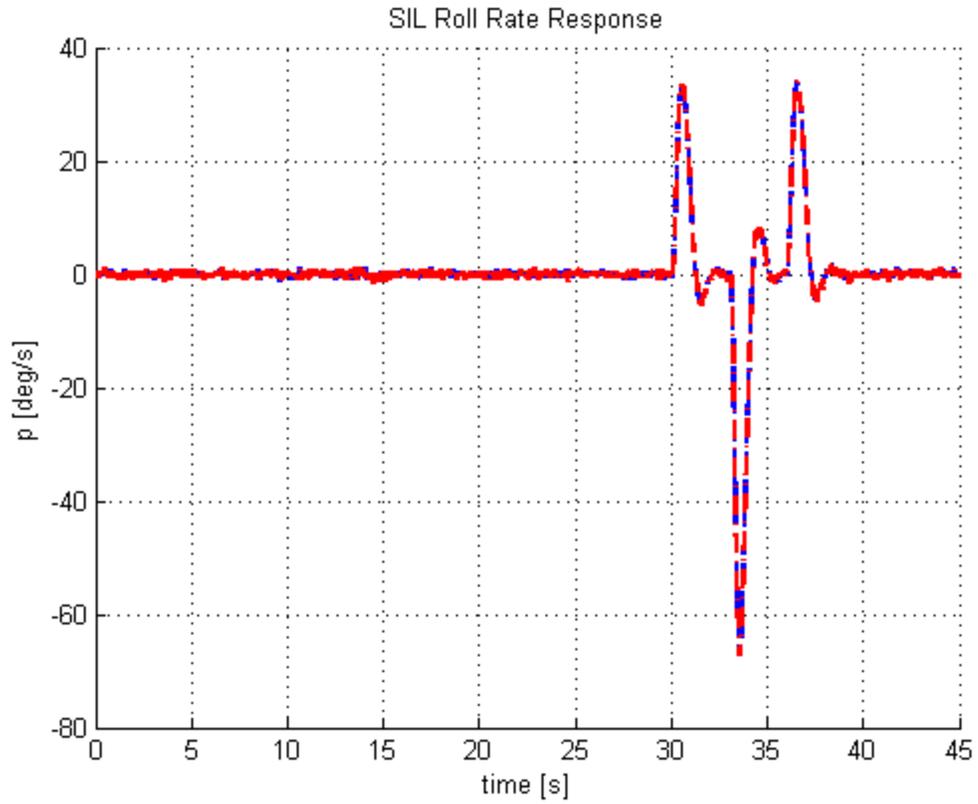
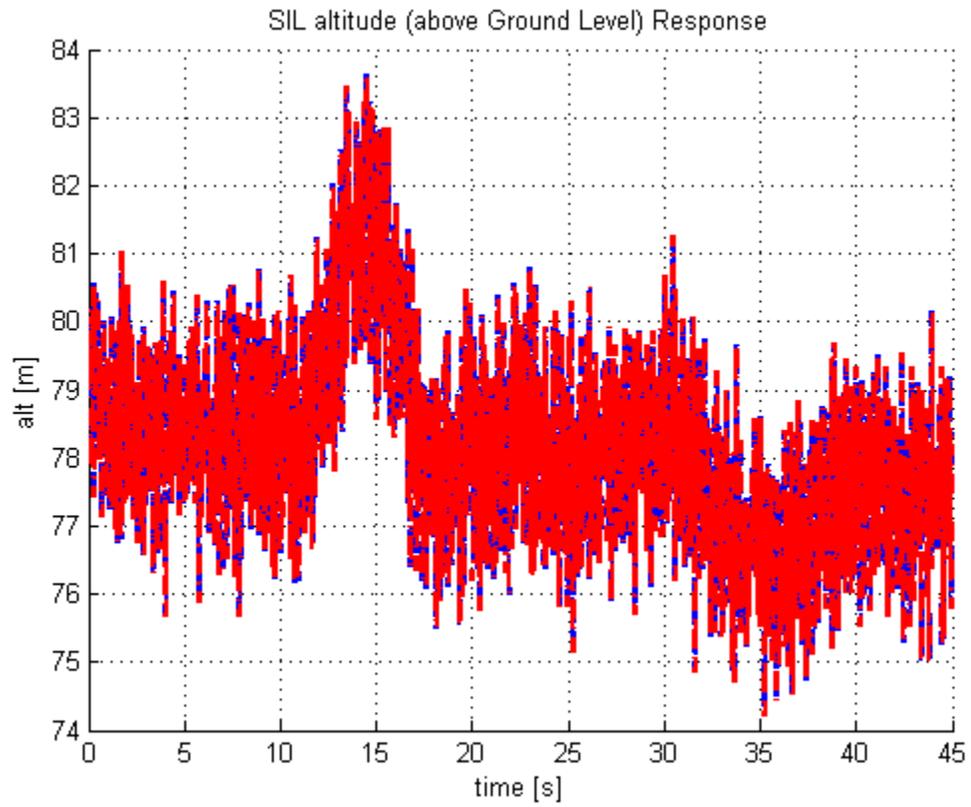


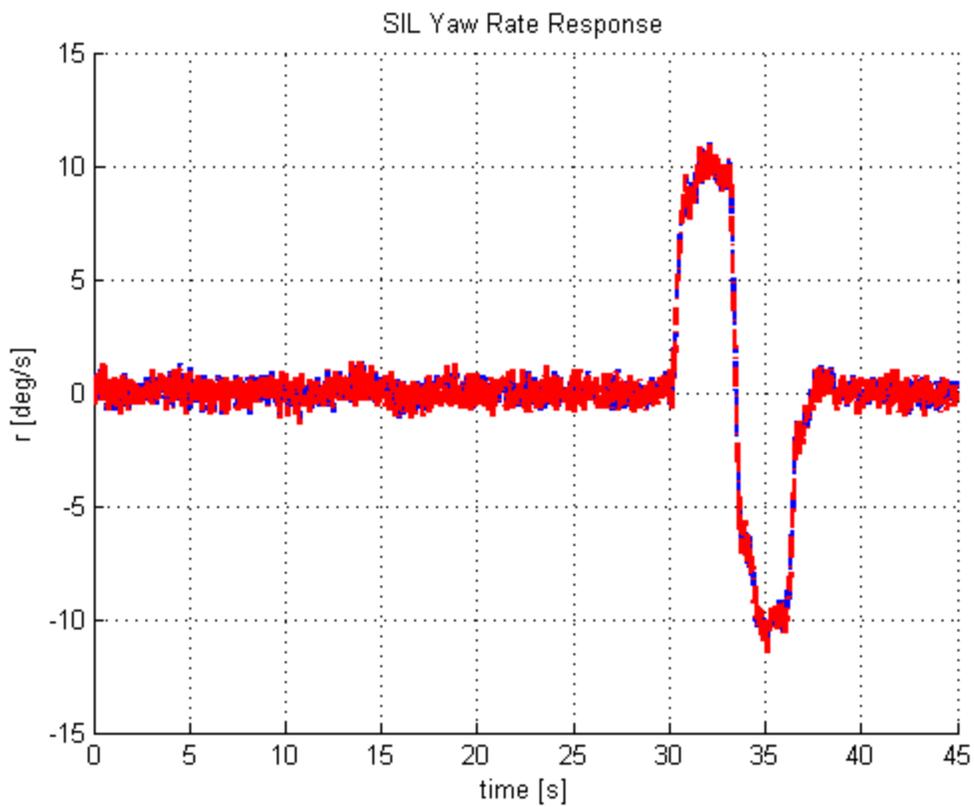
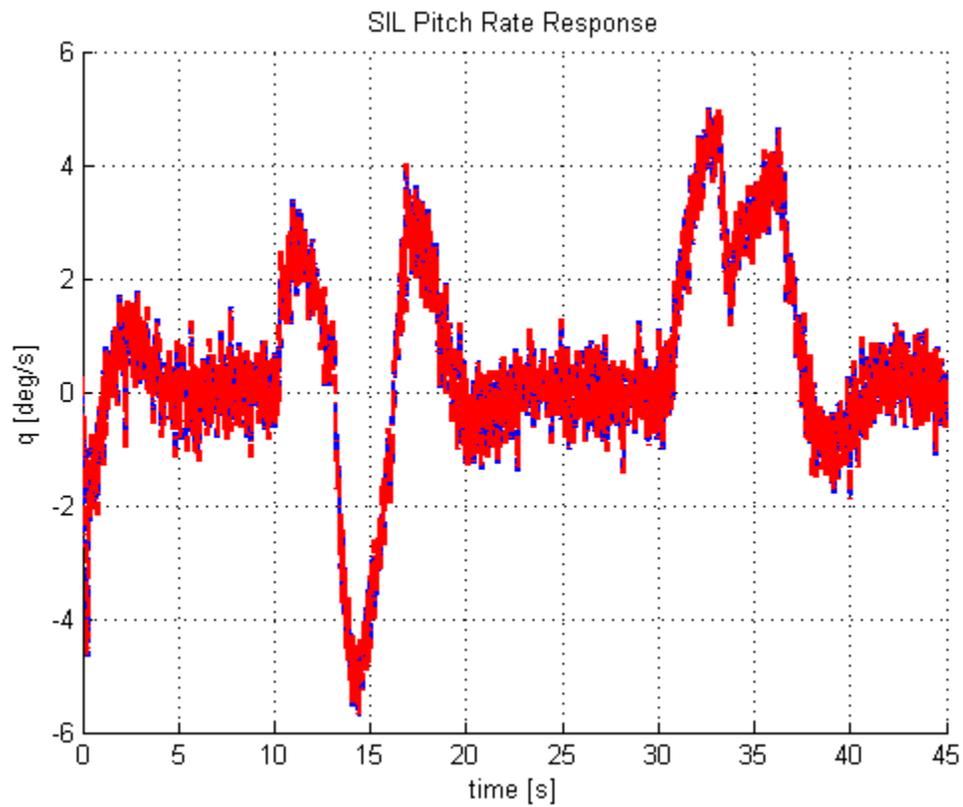












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