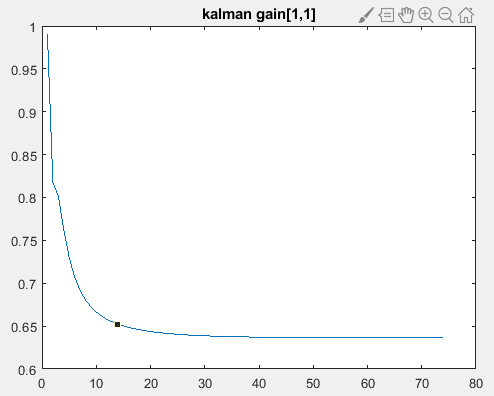
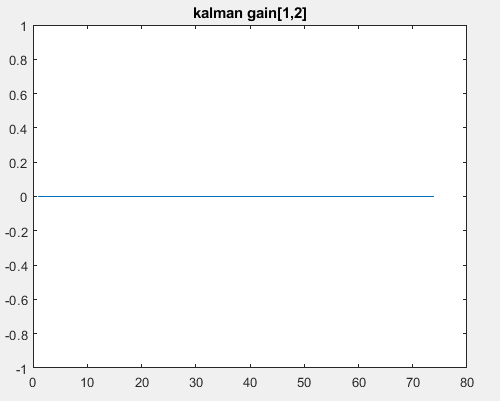
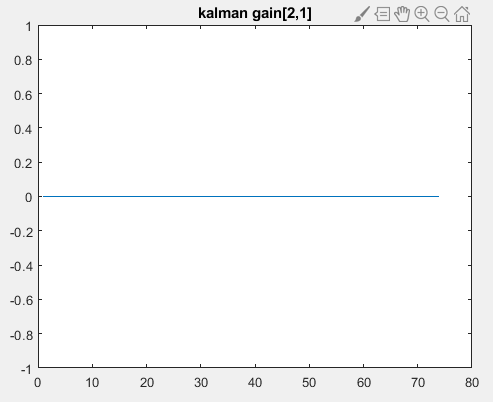
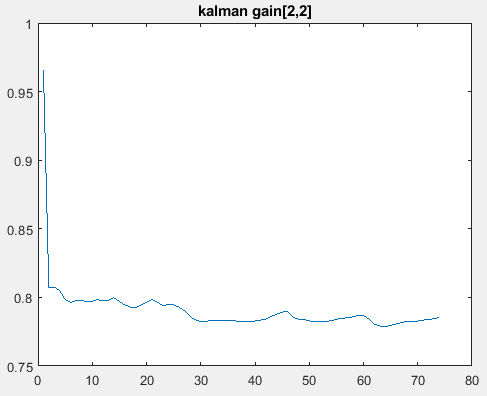
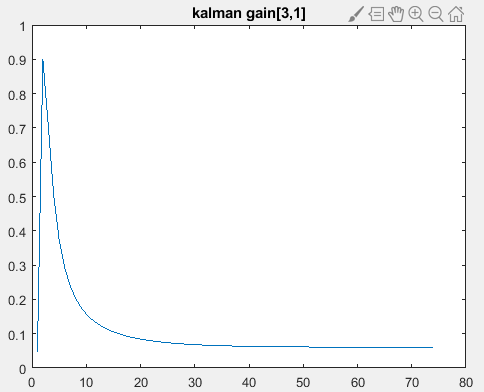
2.

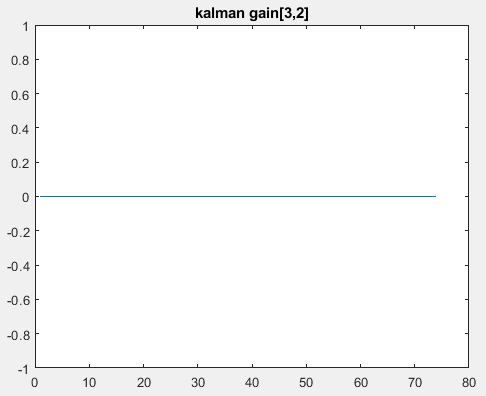


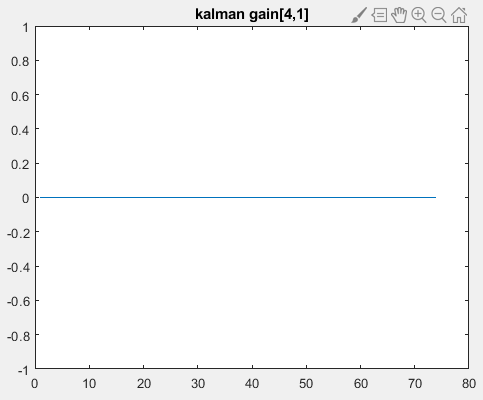


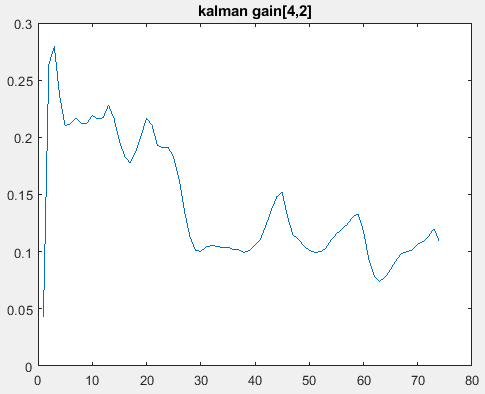


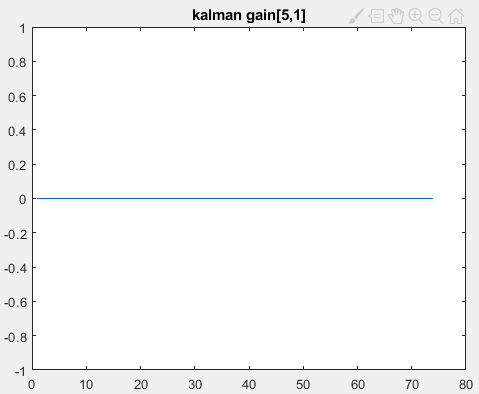


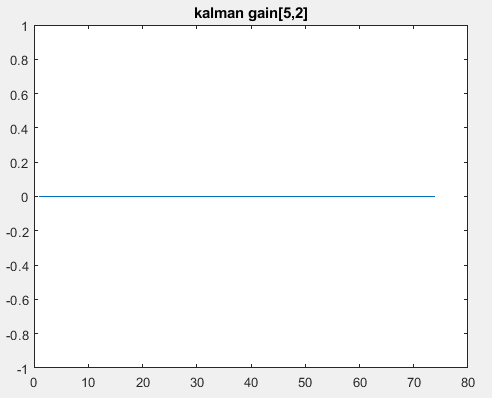


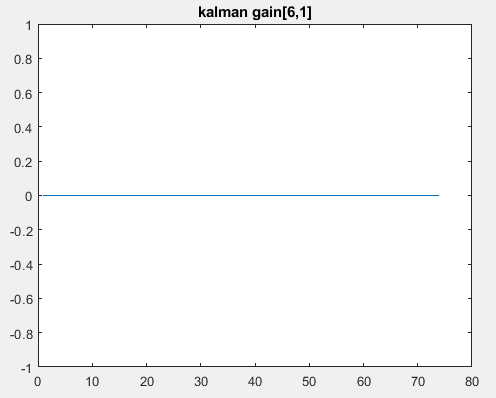


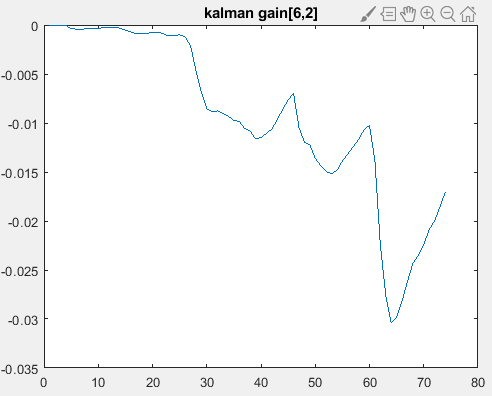


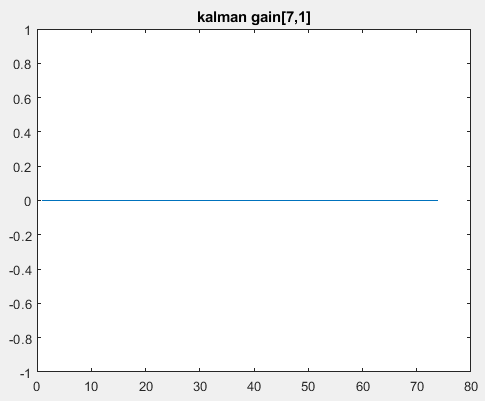


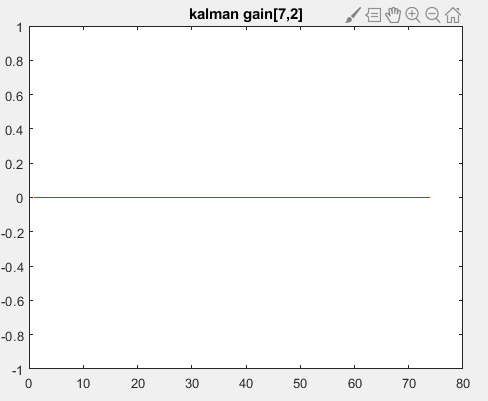


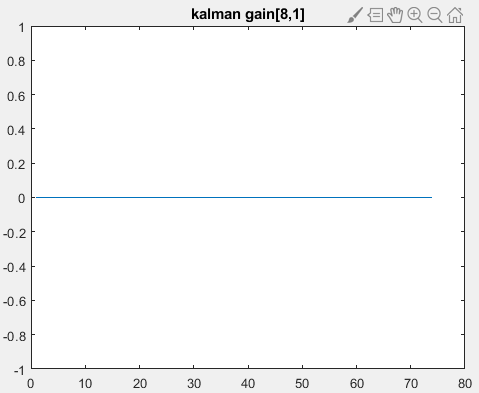


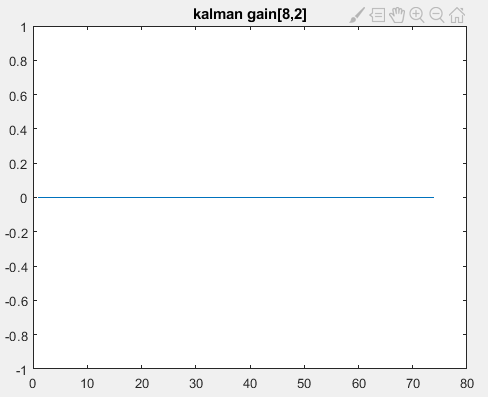












3.

|  |  |  |
| --- | --- | --- |
|  | Group | Name |
| Initial Covariance | 1 | Uncertainty for |
| 2 | Uncertainty for *Velocity* |
| 3 | Uncertainty for coefficients of aero drag magnitude |
| Process Noise | 4 | Position process noise |
| 5 | Velocity process noise |
| 6 | Coefficients process noise |
| Measurement Noise | 7 | Velocity measure noise |

4.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Error Group | Position | | Velocity | | Drag Coefficients | | | |
|  |  |  |  |  |  |  |  |
| 1 | 9.04 | 20.94 | 7.85 | 13.4 | 0 | 0 | 0 | 0 |
| 2 | 10.24 | 20.16 | 9.85 | 11.5 | 0 | 0 | 0 | 0 |
| 3 | 10.24 | 20.7 | 9.85 | 12.2 | 0.1 | 7.35 | 0.1 | 7.35 |
| 4 | 11.8 | 21.8 | 11.2 | 12.65 | 0.1 | 7.5 | 0 | 0 |
| 5 | 31.9 | 12.32 | 20.25 | 23.09 | 0.1 | 7.5 | 0 | 0 |
| 6 | 3.36 | 25.7 | 7.24 | 12.99 | 20.4 | 53.85 | 0 | 0 |
| 7 | 5.61 | 12.4 | 10.6 | 15.33 | 0.1 | 13.21 | 0 | 0 |

5.

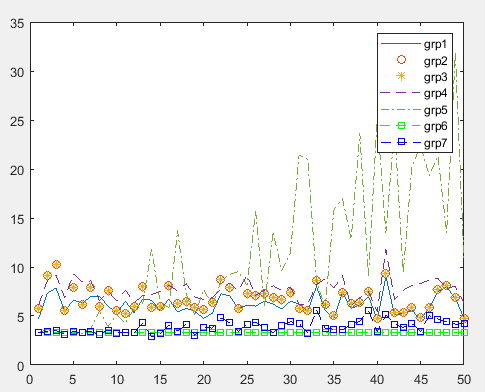


Fig1.Error Sensitivity for

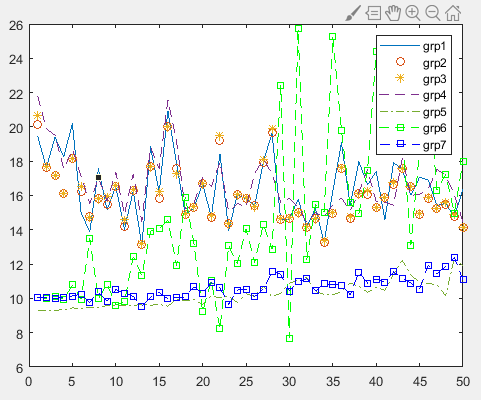


Fig2. Error Sensitivity for

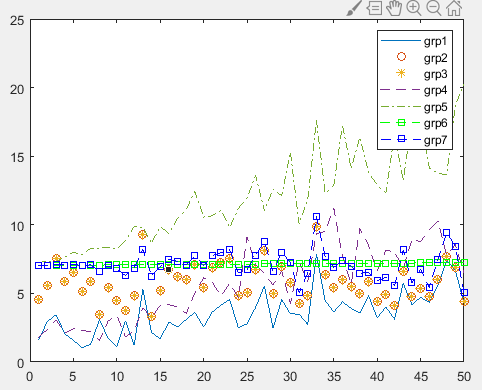


Fig3. Error Sensitivity for

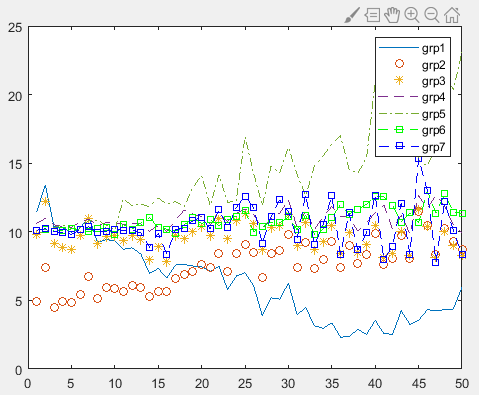


Fig4. Error Sensitivity for

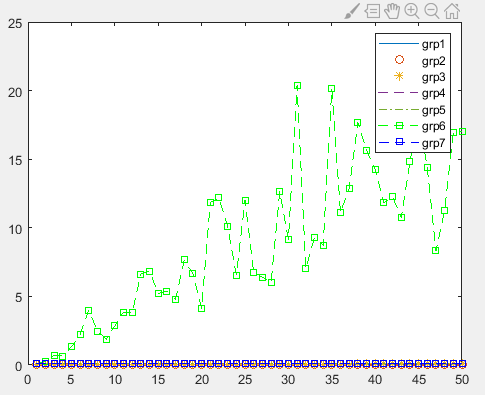


Fig5. Error Sensitivity for

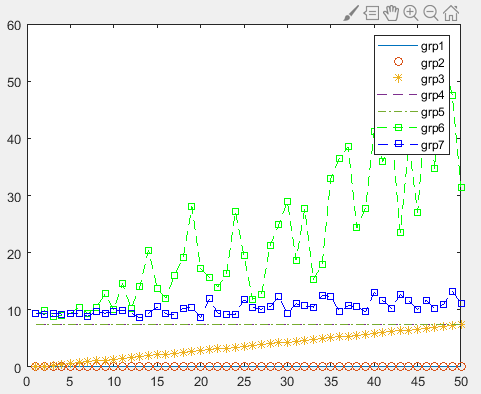


Fig6. Error Sensitivity for

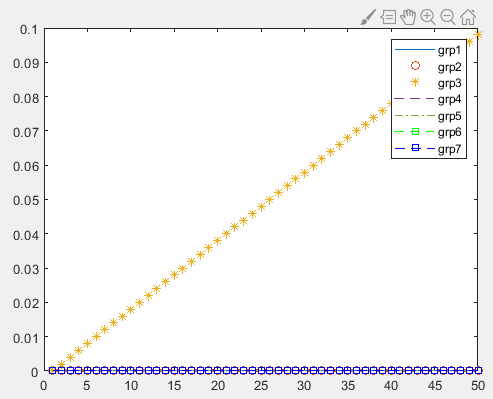


Fig7. Error Sensitivity for

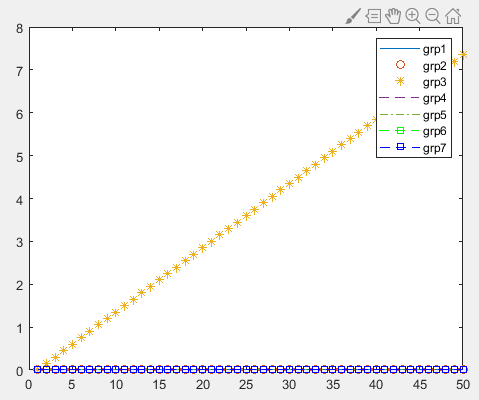


Fig8. Error Sensitivity for