ASEN 6080 HW 2 Problem 2 Main Script

Table of Contents

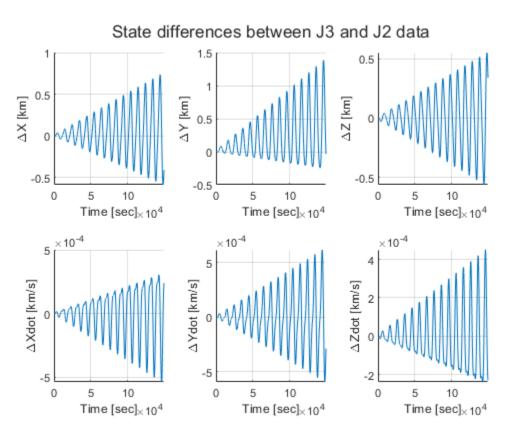
Housekeeping	1
Setup	
Problem 2a: Make Truth Data with J3	1
Problem 2b: Filter setup	2
Problem 2b: Run filters on new data	

By: Ian Faber

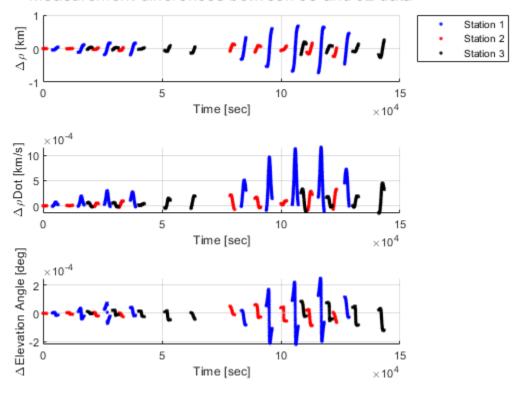
Housekeeping

Setup

Problem 2a: Make Truth Data with J3







Problem 2b: Filter setup

Problem 2b: Run filters on new data

```
Running Batch Filter:

Postfit RMS: 97.8506. Iterating Batch with x0_batch = [-1.860e-02; -1.256e-01; -2.042e-02; -3.525e-05; -3.391e-05; 5.462e-05]. Runs so far: 1

Postfit RMS: 93.5787. Iterating Batch with x0_batch = [-2.901e-02; -1.212e-01; -3.210e-02; -5.429e-05; -2.915e-05; 2.986e-05]. Runs so far: 2

Final postfit RMS: 93.5787. Converged after 3 runs

Running LKF:

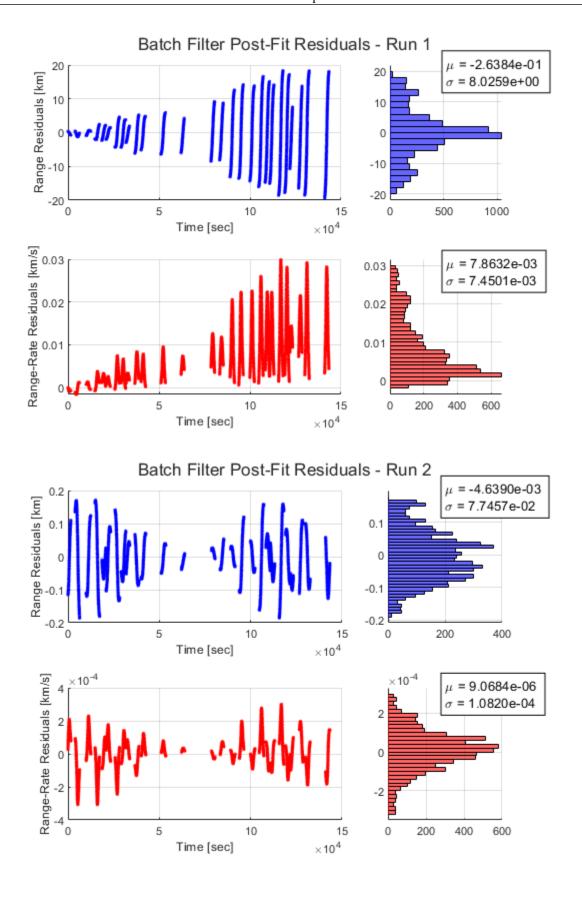
Postfit RMS: 97.7726. Iterating LKF with x0_LKF = [5.186e-01; 6.256e-01; 5.204e-01; 5.352e-04; 5.339e-04; 4.454e-04]. Runs so far: 1

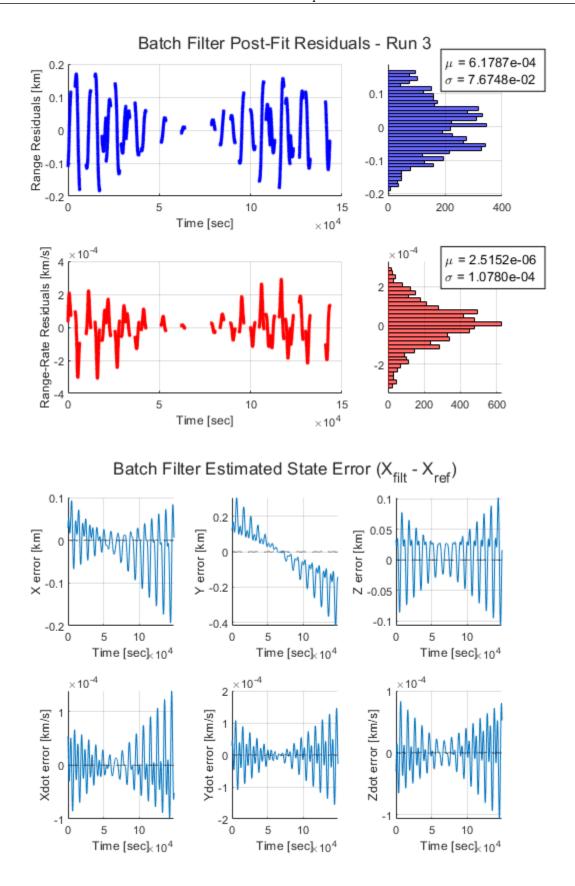
Postfit RMS: 93.5017. Iterating LKF with x0_LKF = [1.041e-02; -4.457e-03; 1.168e-02; 1.905e-05; -4.761e-06; 2.476e-05]. Runs so far: 2

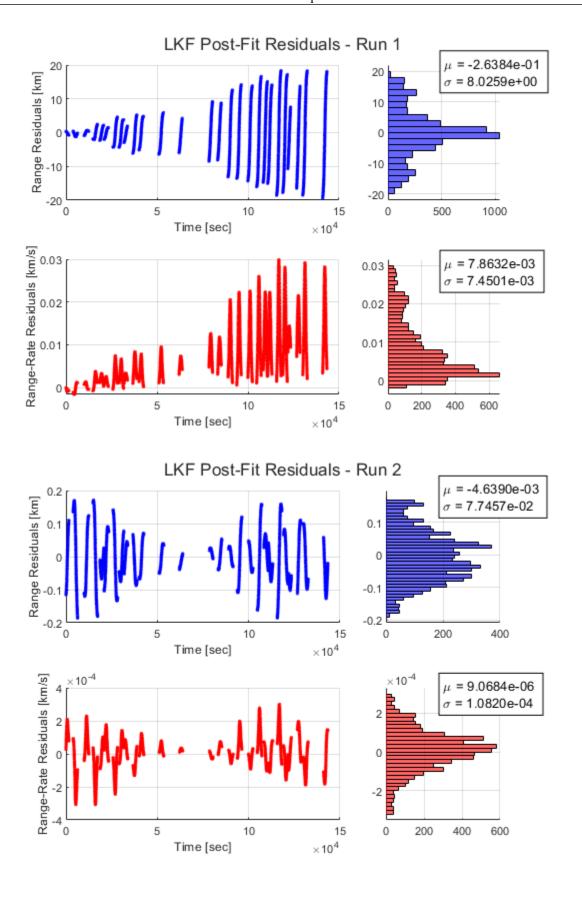
Final postfit RMS: 93.5017. Converged after 3 runs

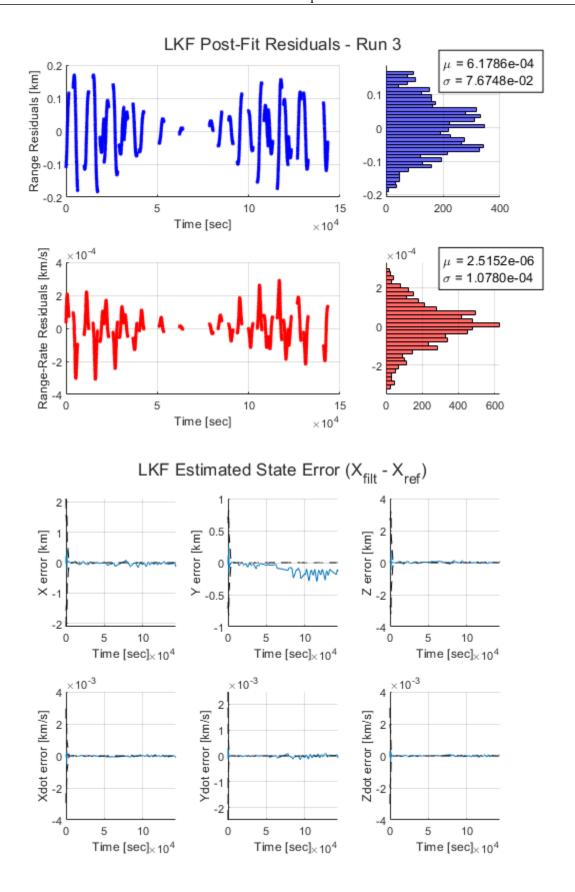
Running EKF:

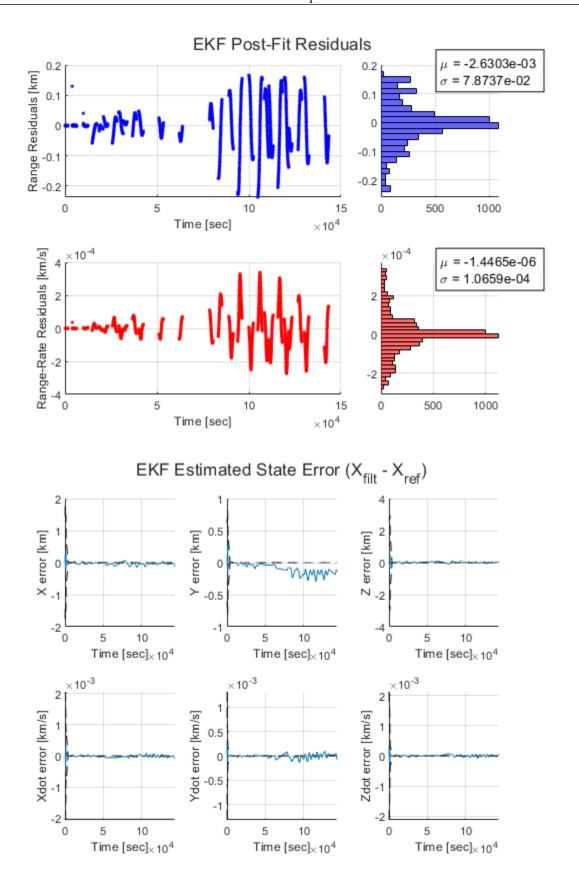
Postfit RMS: 93.5599
```











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