# AA 236A: Spacecraft Design Problem Set 2

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## Problem 1

(a) test words

(b) A list of the passes bounded by time is below in Figure 1.

2 /27/201 47/509 M											
2 21/7/2021 4:53:00 PM 2/1/2021 6:33:37 PM 2/7/2021 6:33:37 PM 2/7/2021 6:33:37 PM 2/7/2021 6:30:37 PM 2/7/2021 3:30:37 PM 0:00:52 5:54 3:31:57 4:60:08 3:10:01 PM 2/7/2021 3:40:57 PM 2/7/2021 3:50:57 PM 0:00:59 44.7 21:685 5:83:30:64:34 PM 2/7/2021 3:40:57 PM 2/7/2021 3:50:57 PM 0:00:59 44.7 21:685 5:83:30:54:34 PM 2/7/2021 3:50:57 PM 2/7/2021 3:50:57 PM 0:00:59 44.7 21:685 5:83:30:54:34 PM 2/7/2021 3:50:57 PM 0:00:59 44.7 21:685 5:83:30:54:34 PM 2/7/2021 3:50:57 PM 2/7/2021 3:50:57 PM 0:00:59 44.7 21:685 5:83:30:54:34 PM 2/7/2021 3:50:57 PM 2/7/2021 3:30:57 PM 0:00:59 44.7 21:685 18:827 7-67.7 3:30:57 PM 0:00:59 44.7 21:685 18:827 7-67.7 3:30:57 PM 2/7/2021 3:30:57 PM 2/7/2021 3:30:57 PM 0:00:59 44.7 21:685 18:827 7-67.7 3:30:57 PM 2/7/2021 3:30:57 PM 2/7/2021 3:30:57 PM 0:00:59 44.7 21:685 18:827 7-67.4 3:30:57 PM 2/7/2021 3:30:57 PM 2/7/2021 3:30:57 PM 0:00:50:47 PM 0:00:50:47 PM 2/7/2021 3:30:57 PM 2/7/2021 3:30:57 PM 0:00:50:47 PM 0:00:50:47 PM 0:00:50:47 PM 2/7/2021 3:30:57 PM 0:00:50:47 PM 0:00:50:47 PM 2/7/2021 3:30:57 PM 0:00:50:47 PM 0:00:50:47 PM 0:00:50:47 PM 2/7/2021 3:30:57 PM 0:00:50:47 PM 0:00:50:47 PM 0:00:50:47 PM 2/7/2021 3:30:57 PM 0:00:50:47 PM 0:											
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Section   Company   Comp											
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13   12/7/2012   4:09:12 PM   2/7/2012   4:39:46 PM											
12											
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Figure 1: Passes over WFF bounded by time

File Edit Help

2021/02/03 10:10:05

WFF Wallops Island, Virginia

Next: TECHEDSAT 10 in 05:08:45

(c) The ground tracks are below in Figure 2, TECHEDSAT-7 was not available.

Figure 2: Ground Tracks of ISS and TECHEDSAT-10

#### Problem 2

-150° -120°

- (a)
- (b)
- (c)

#### Problem 3

All files for this problem are located here

#### Problem 4

- (a) Done -
- (b) As seen in Figure 3, all sensors work as expected except for the GPS sensor. I am having trouble getting it to connect but will try outside tomorrow (Feb. 4th) and get back to you. Despite the instructions, I do have the code running in a loop so I can see the sensors change as the environment changes.

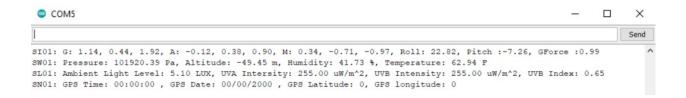


Figure 3: Serial Monitor of the Sensor Test

### Problem 5

The code is located here.

(a) The predicted altitude starts around 350 km (locally sinusoidaly oscillates) and decays to 300 km around 33 days and 100 km around 87 days. this can be seen below in Figure 4.

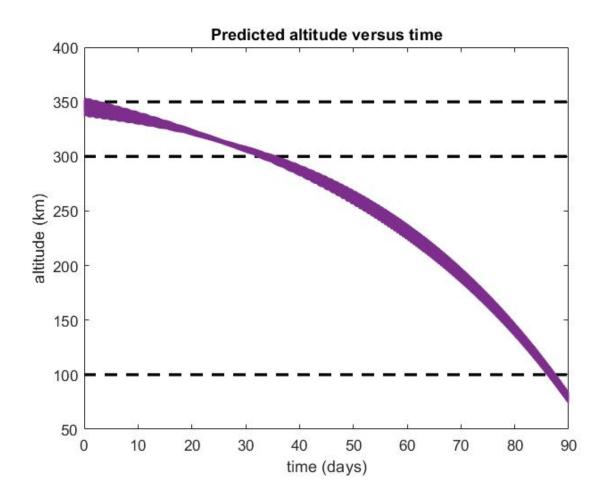


Figure 4: Altitude versus time for TECHEDSAT-10

(b) The predicted altitude starts around 350 km (locally sinusoidaly oscillates) and decays to 300 km around 17 days and 100 km around 44 days. this can be seen below in Figure 5. It would make sense

that doubling the drag term will cause the satellite to come to plummet twice as fast.

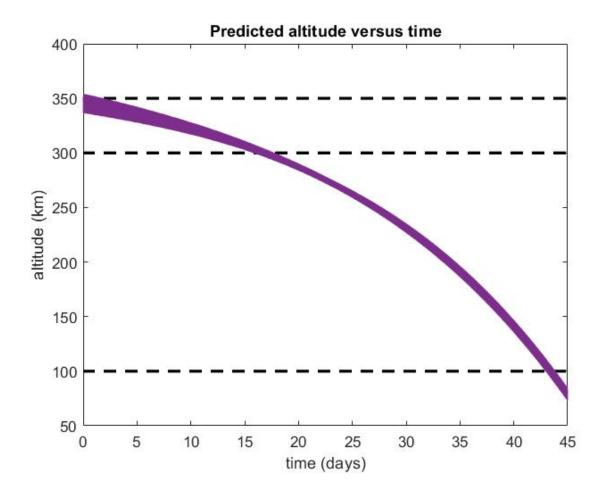


Figure 5: Altitude versus time for TECHEDSAT-10 with doubled BSTAR  $\,$ 

(c)