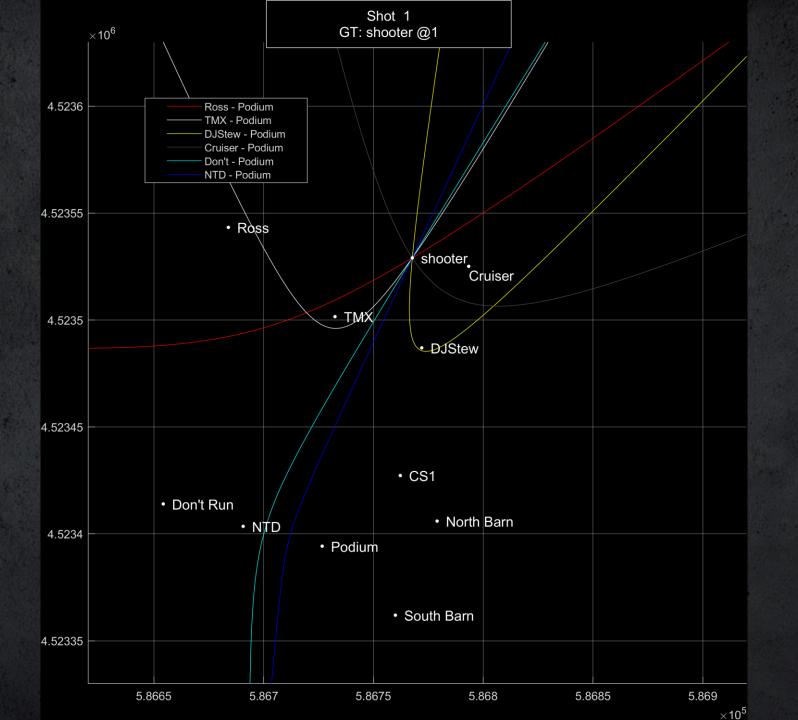
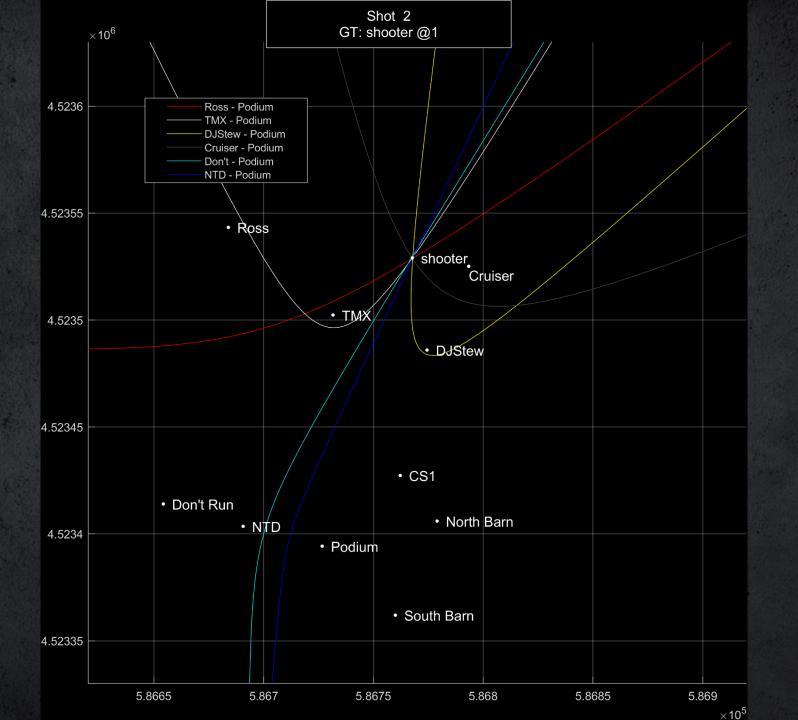
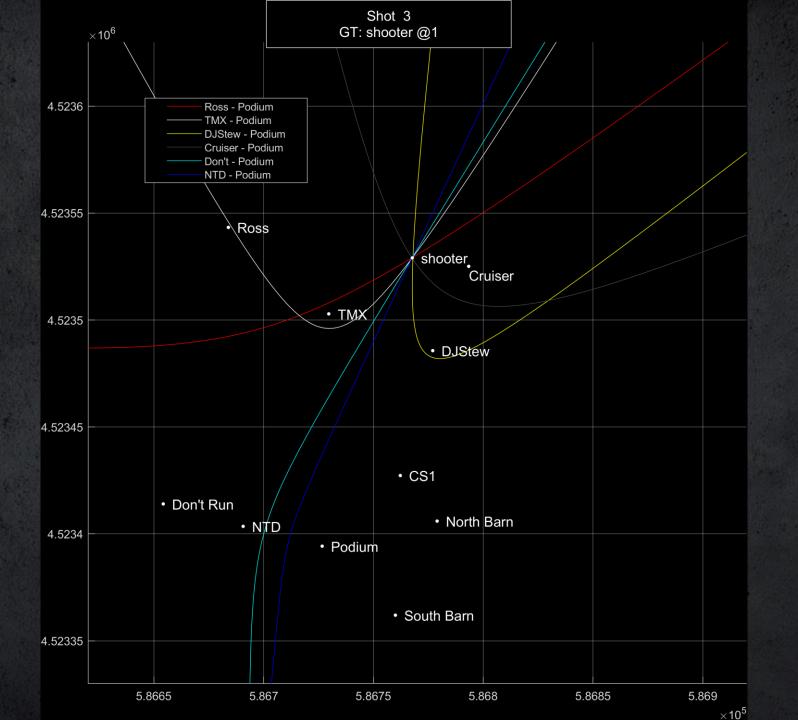
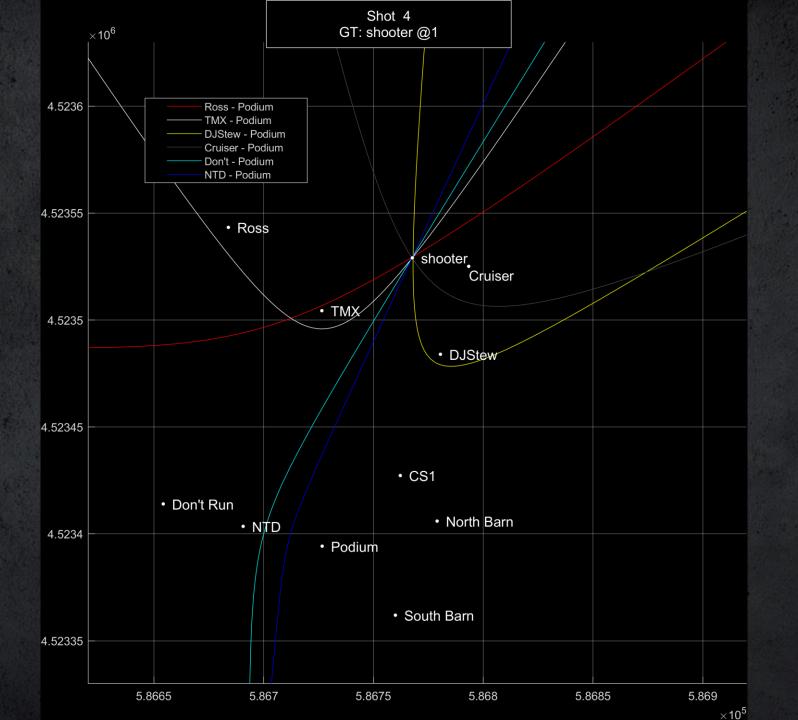
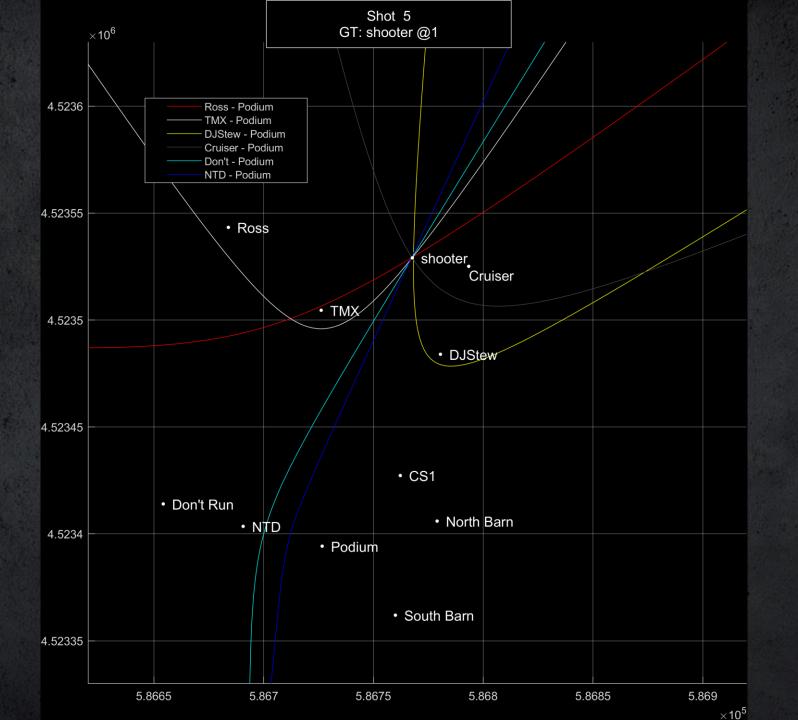
TDOA Hyperbolas for Shots 1 -10 Shown at a Common Zoom Level

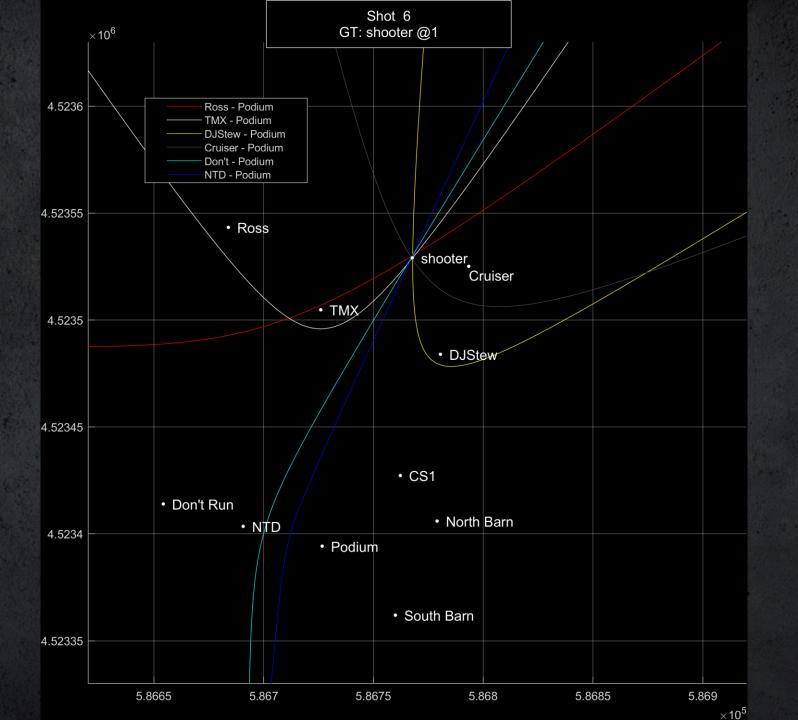


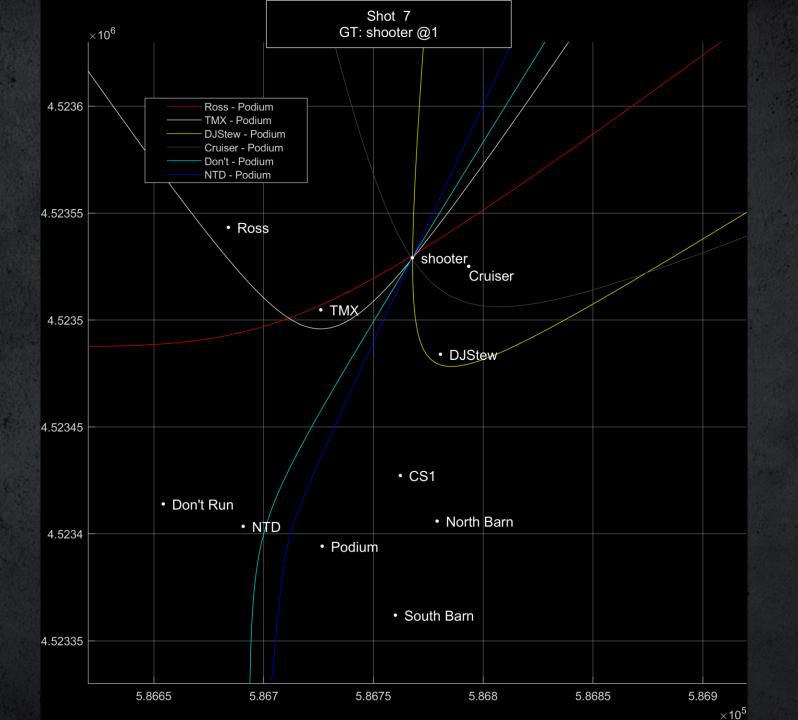


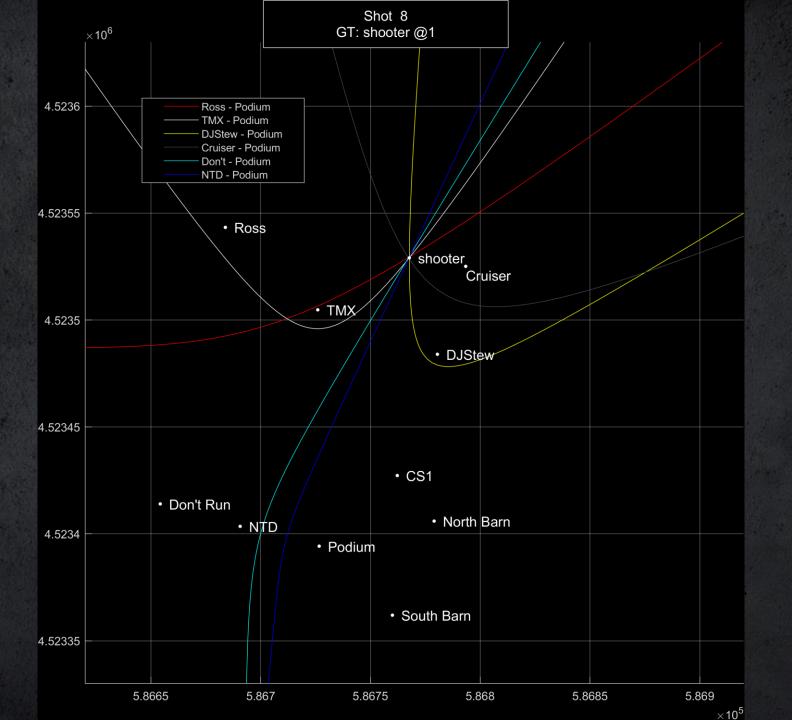


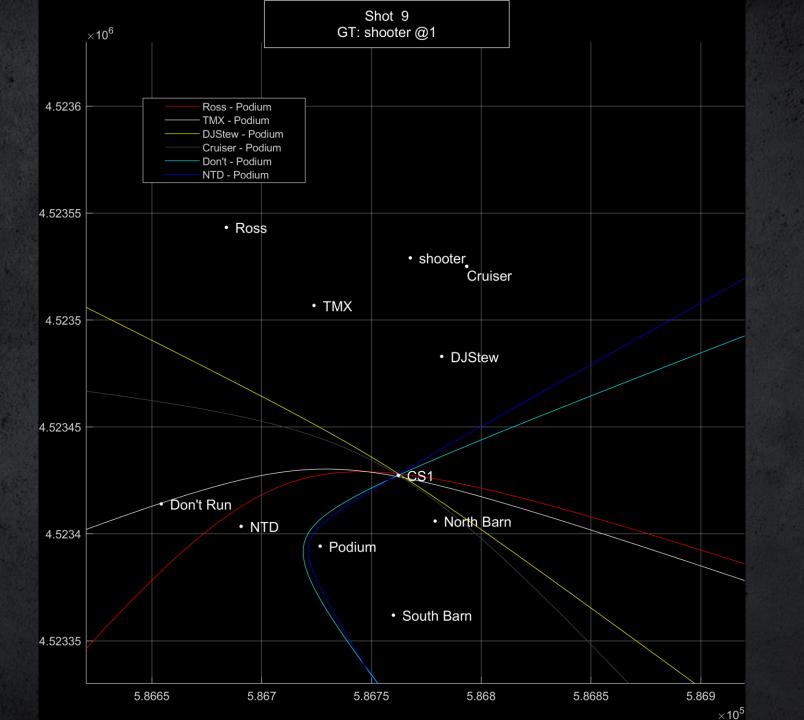


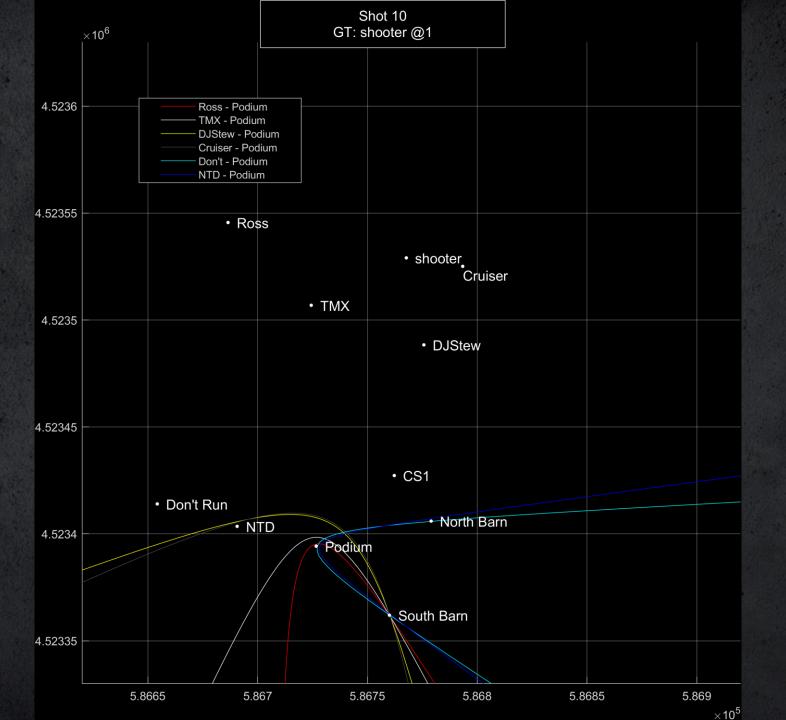




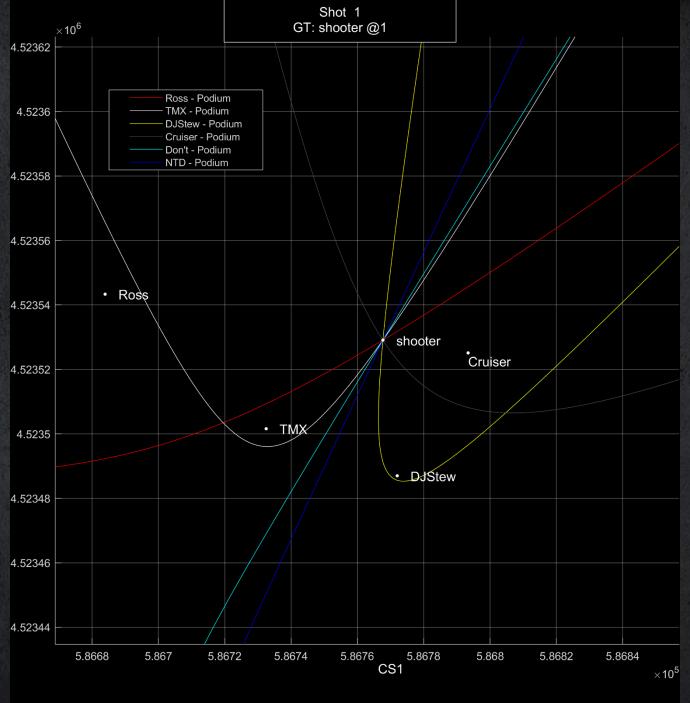


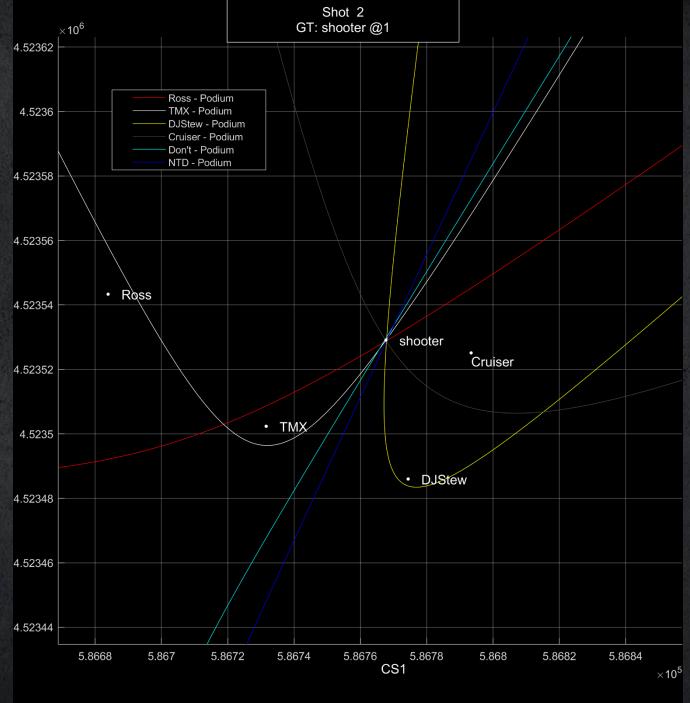


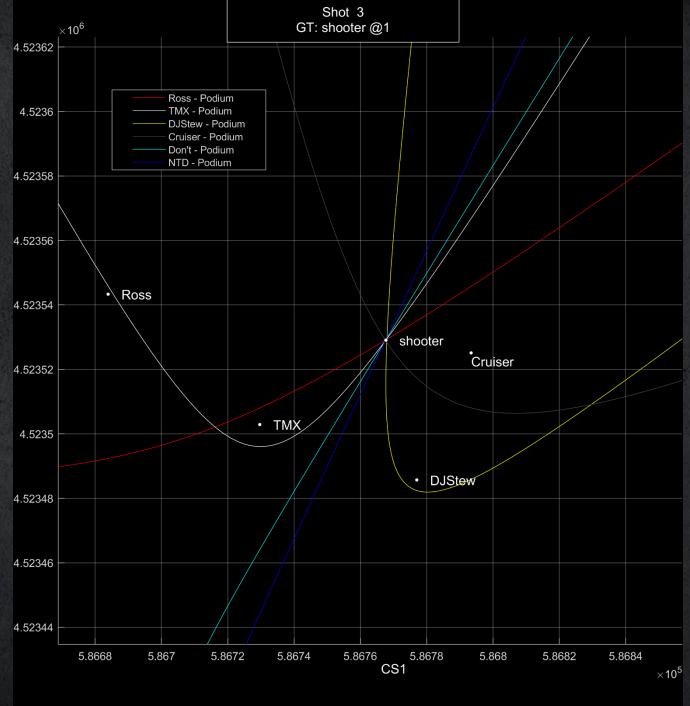


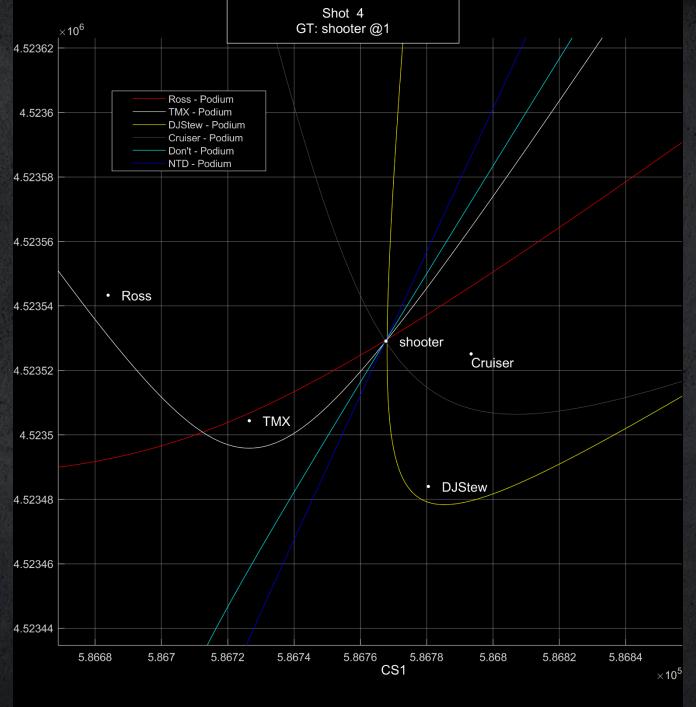


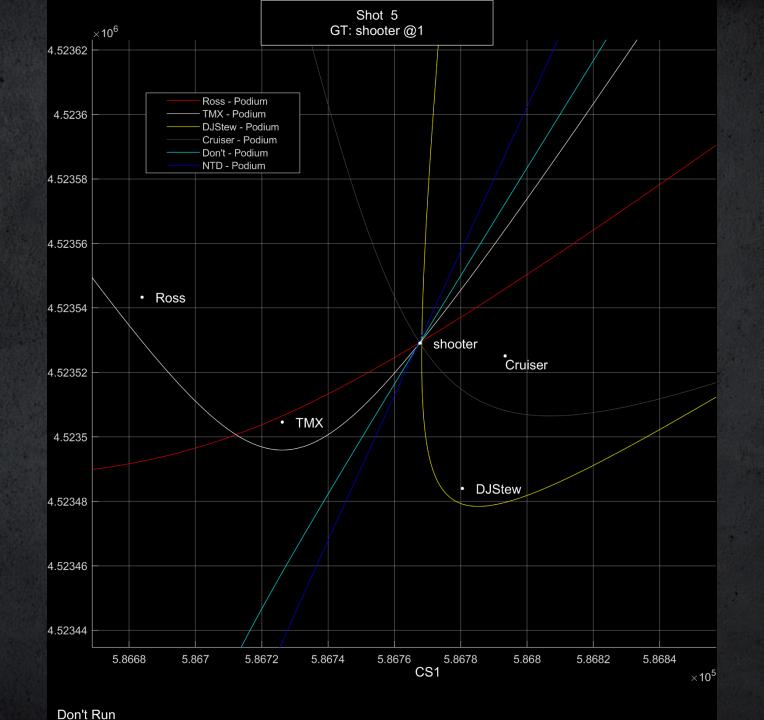
TDOA Hyperbolas for Shots 1 -10 Zoomed in to Show Detail

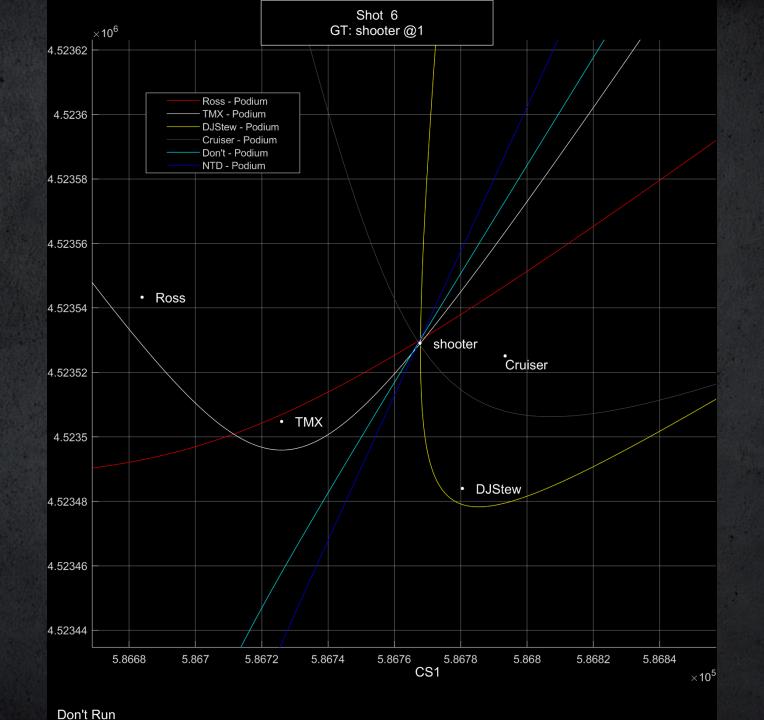


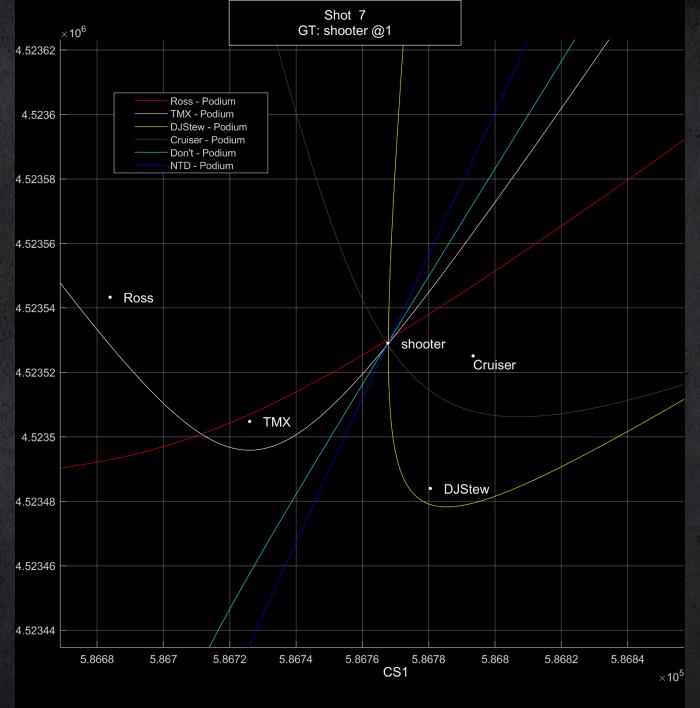


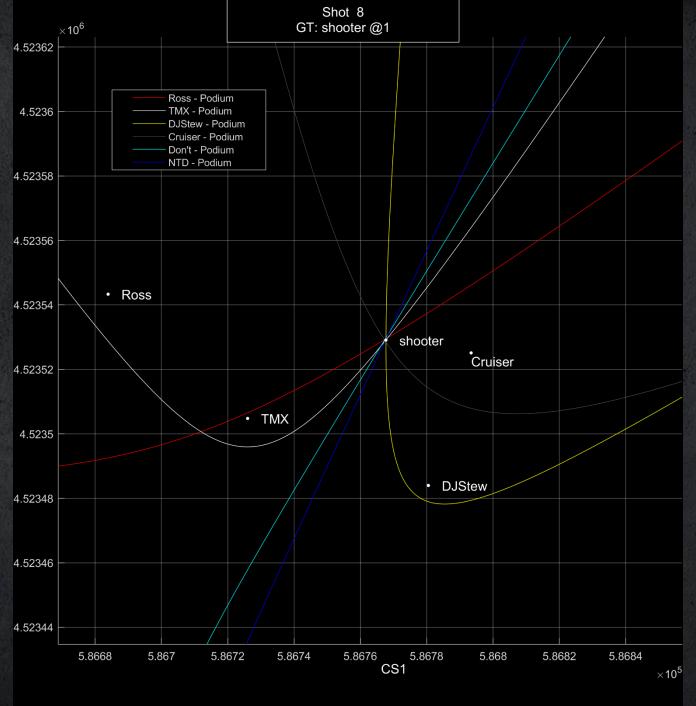


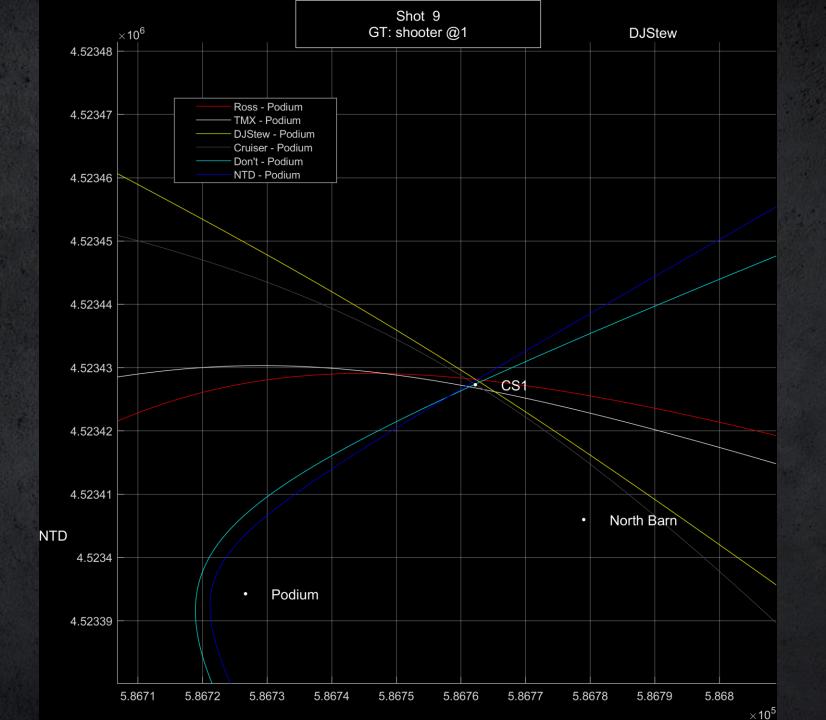


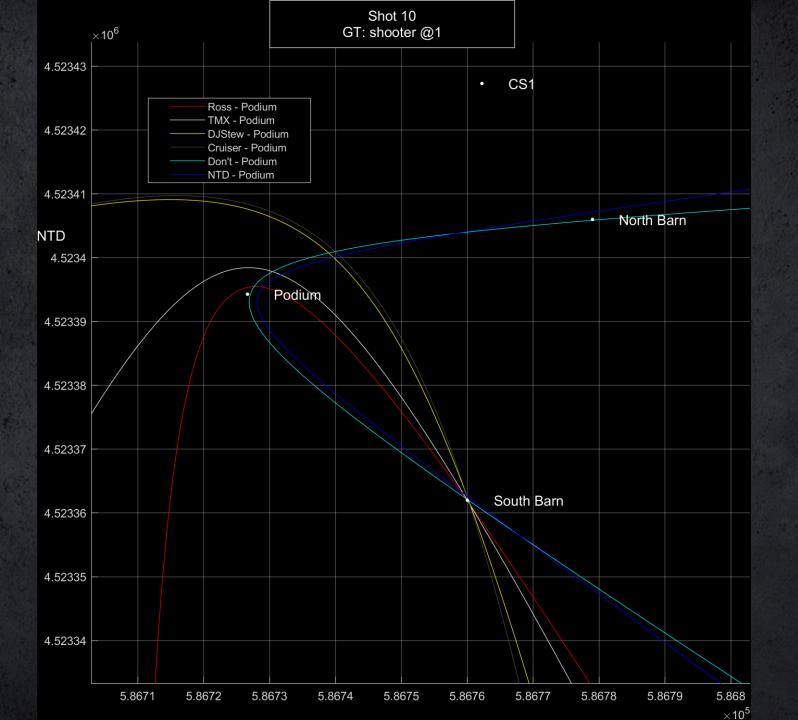












The timing data to produce these plots is found in "Audio Timestamps v4.xlsx"

The recording source location data is found in "Locations_v4.0.m"

The gunshot location results are presented in "greg_n TDOA v4.0.kmz"

I am aware of two issues with the data/results as currently presented:

- 1. For TMX, I have a location jump of 3m between shots 8 & 9, which seems physically implausible given there was only 0.9 second between these two shots.
- 2. The results for Shot 10 converge about 5m to the NW of the counter-sniper position on the South Barn, which leaves them floating in the air, just off to the West of the barn roof.

I suspect both of these issues to be caused by small errors in the locations of the recording devices, but after a good amount of experimentation, I have not been able to identify or correct whatever the issues are.



