Sep 30, 2014

Liam,

for the N-S-1 run:



the vehicle telemetry that has been sorted for you is ICRA\_extracted\_telemetry in vehicle\_telemetry.mat.

It is similar in format to what you had earlier for the vehicle, i.e.

ICRA\_extracted\_telemetry = [

ping\_number

date\_year

date\_month

date\_day

date\_hr

date\_min

date\_sec

UUV\_lat

UUV\_long

UUV\_heading

UUV\_speed\_mps

pitch\_deg

roll\_deg

altitude\_m

];

2.

The sonar detection matrix, ‘total\_sonar\_detections’ (in detection\_summary.mat) has columns ordered as follows:

ICRA\_detection = [

detection\_ping\_number;

detection\_ping\_time\_year;

detection\_ping\_time\_month\_num;

detection\_ping\_time\_day;

detection\_ping\_time\_hr;

detection\_ping\_time\_min;

detection\_ping\_time\_sec;

UUV\_latitude\_deg;

UUV\_longitude\_deg;

UUV\_heading\_deg;

UUV\_speed\_mps;

UUV\_pitch\_deg;

UUV\_roll\_deg;

UUV\_altitude\_m;

detection\_slant\_range\_m;

detection\_latitude\_deg;

detection\_longitude\_deg;

tif\_image\_start\_time\_year;

tif\_image\_start\_time\_month;

tif\_image\_start\_time\_day;

tif\_image\_start\_time\_hr;

tif\_image\_start\_time\_min;

tif\_image\_start\_time\_sec;

tif\_image\_end\_time\_year;

tif\_image\_end\_time\_month;

tif\_image\_end\_time\_day;

tif\_image\_end\_time\_hr;

tif\_image\_end\_time\_min;

tif\_image\_end\_time\_sec;

];

The only thing different from what I had earlier is the ping number is now referenced. Since you are now working on the ping level (and not the vehicle log level), it makes sense to reference the ping number which will let you uniquely trace every measurement. You can track the ping number in the total\_vehicle\_telemetry as well.

For the N-S-1 run, you have 137 detections.