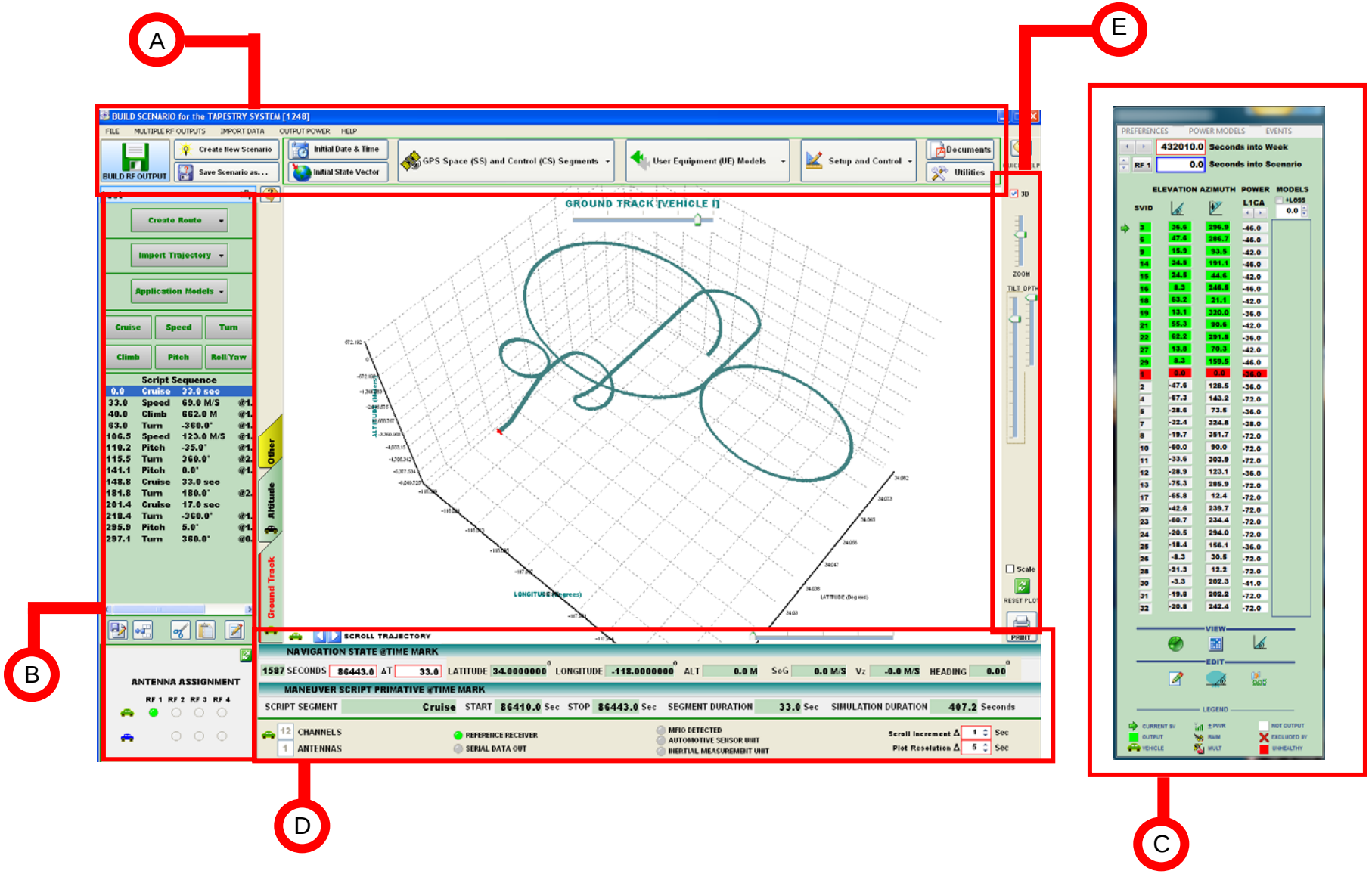
NAVIGATION LABORATORIES INC.

< CLICK > to follow LINK

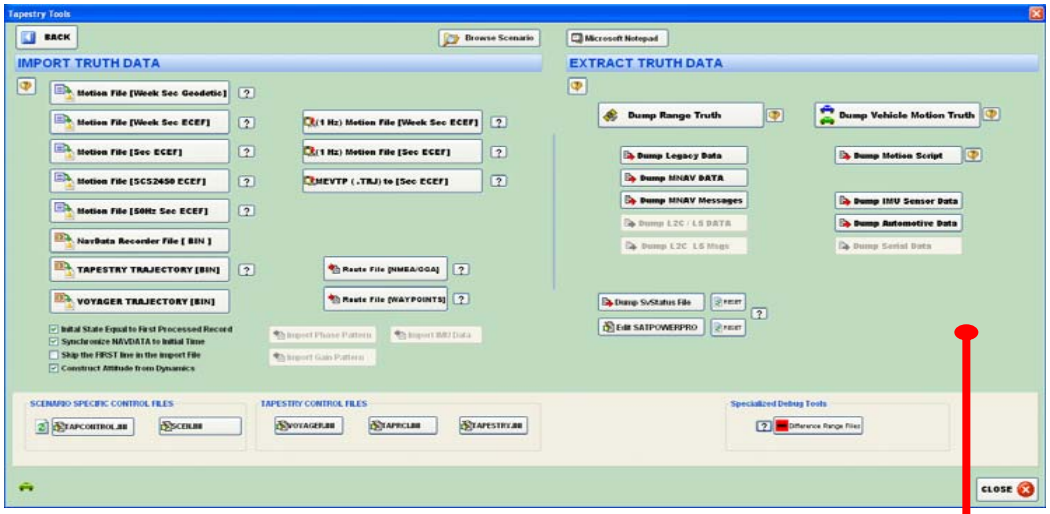


! SETTING UP HARDWARE

! USERS GUIDE

! GETTING STARTED

A MENU BAR & PULLDOWNS



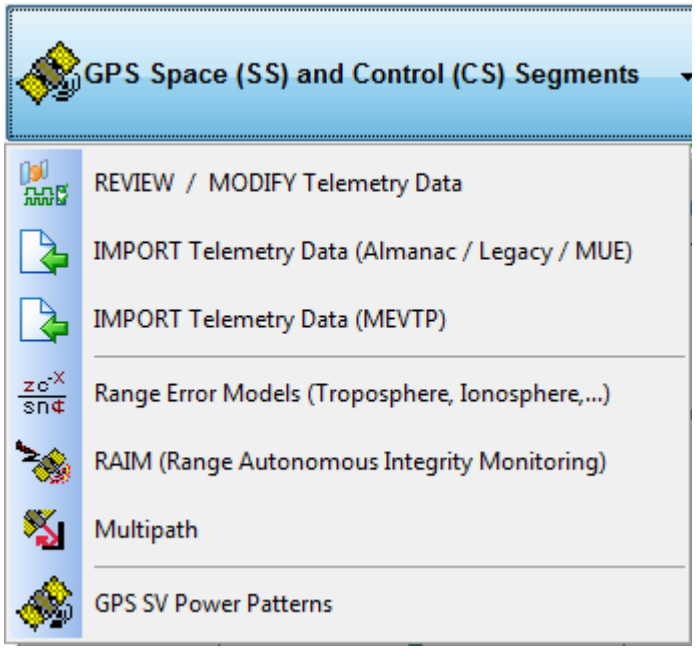
Build Scenario for RF Output

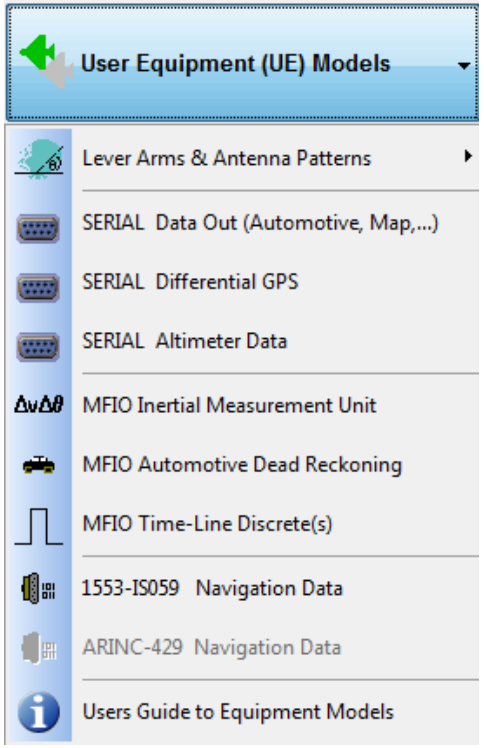
Create New Scenario Wizard

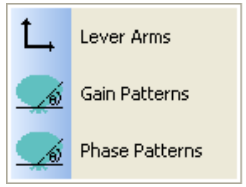
Initial Date and Time

Initial Location, Velocity, and Attitude

Save Scenario in a different Folder

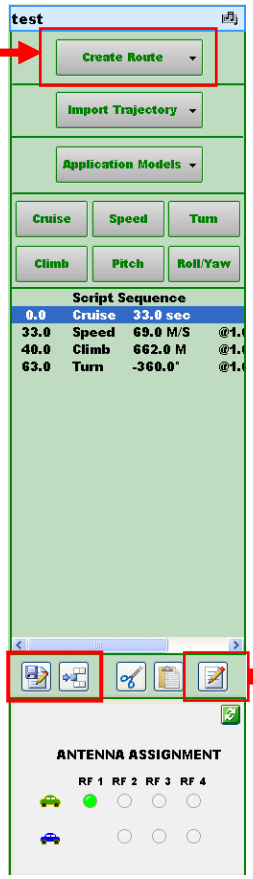




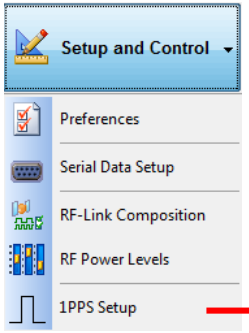


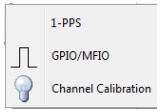
B (*SCRIPTED*) VEHICLE MOTION GENERATOR

Select desired maneuver primitive

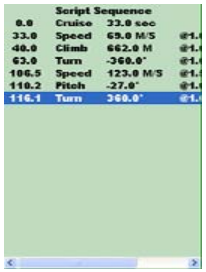


Use the Preferences button to specify the maximum acceleration, jerk, and dynamic conditions associated with your simulated vehicle.



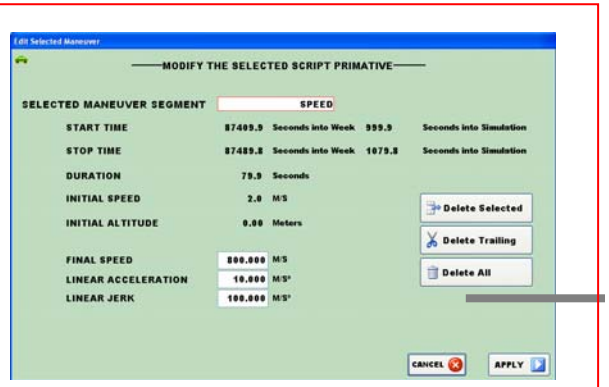


<SHIFT> click to select a range of Maneuvers

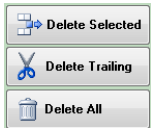


Export to save the list in the Scenario Folder with the name: CutManeuverList.txt. Rename and move this file to save it. We've created a folder c:\tapestry\maneuvers for this purpose.

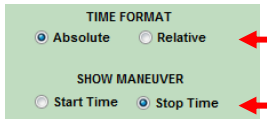
To insert a Script in the format of CutManeuverList.txt after highlighted Maneuver.



<Dbl Click> or use Button to Edit the selected Maneuver or perform global operations.

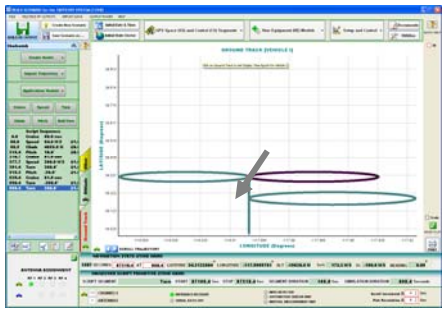


When deleting a Maneuver(s), Tapestry will re-propagate all trailing maneuvers automatically. To modify a Maneuver edit the appropriate control and press NEXT



Display time in Seconds-into-Simulation or Absolute Time.

This controls the Maneuver-Script-Summary Display:
START displays the Initial conditions of the maneuver
STOP displays the Terminal conditions of the maneuver



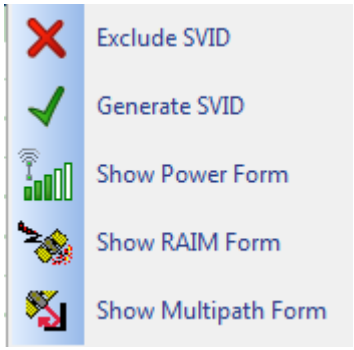
FEATURES

- Click on the maneuvers in the script and the entire Main Form will synchronize depending upon the SHOW MANEUVER settings.
- If a Vehicle Trajectory is imported, the Maneuver Script Summary bar will be replaced by the Imported Trajectory Summary Bar.
- You can BROWSE through the maneuver one-step-at-a-time using the SCROLL control. The selected point on the GROUND TRACK DISPLAY will be marked with a RED CROSS: X

C SATELLITE VIEW DISPLAY

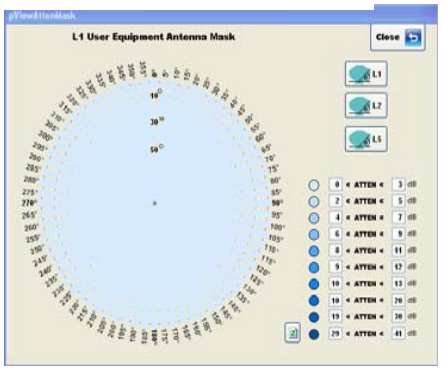
Show NEXT Satellite Visibility Epoch

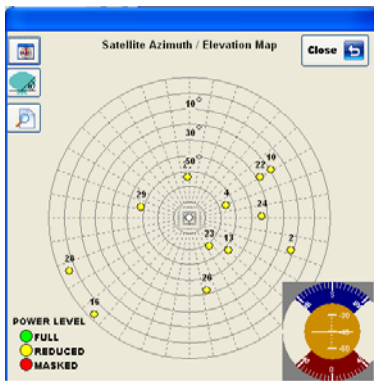
Click to SET SVID and display quick edit popup



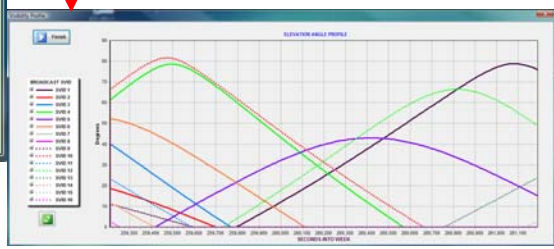
Control UE Antenna Pattern, GPS SV Antenna Pattern, and Slant Range Power Effects

Display a polar plot of the Antenna Pattern





Elevation Angle Profile

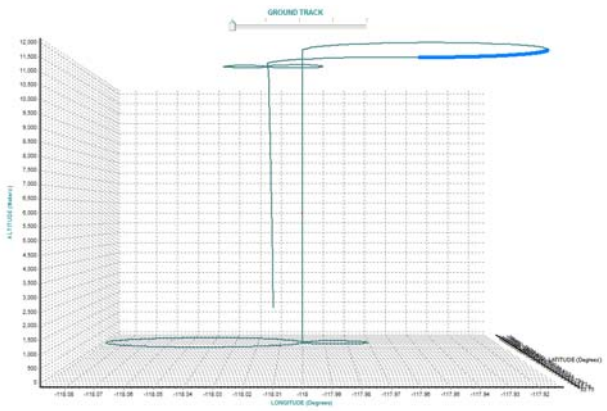


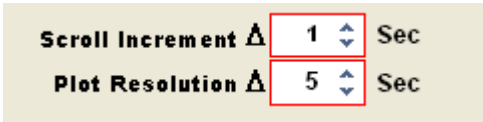
D NAVIGATION STATE SUMMARY

Enter the time 33 into this (*or any of the Time Controls*) and the GUI Form synchronizes along with all popup data forms and controls.

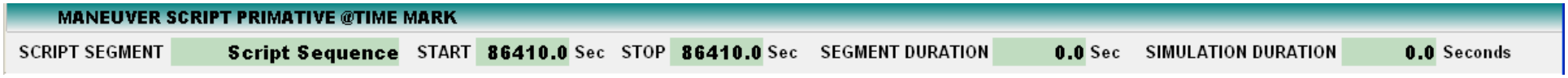
Set summary to Maneuver START or STOP time

Maneuver Sequence			
432001.0	Cruise	1.0 sec	
432002.0	Speed	200.0 M/S	@10.0 M/S
432022.1	Turn	360.0 °	@10.0 M/S
432147.9	Turn	-360.0 °	@29.9 M/S
432190.2	Climb	12000.0 M	@14.7 M/S
432317.4	Turn	-180.0 °	@10.0 M/S
432380.4	Turn	-90.0 °	@9.9 M/S²
432412.1	Cruise	6.0 sec	
432418.1	Turn	90.0 °	@9.9 M/S²
432449.8	Cruise	8.0 sec	
432457.8	Turn	360.0 °	@39.8 M/S
432489.8	Turn	-360.0 °	@49.9 M/S
432515.6	Cruise	8.0 sec	
432523.6	Climb	1232.0 M	@9.9 M/S²



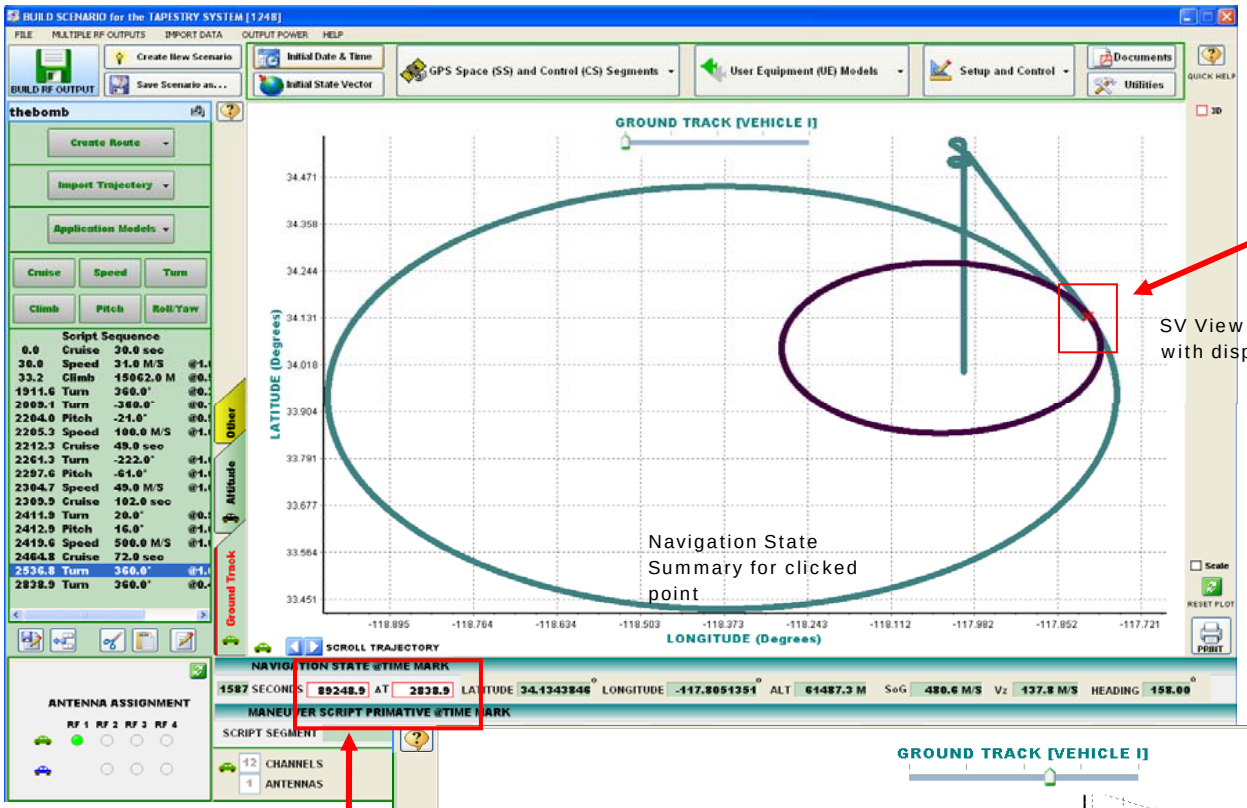


Scroll ± through the Trajectory Data by the specified scroll amount [The Display resets to the scroll Epoch]



E GROUND TRACK DISPLAY

Click on Ground Track to set the Graphical Display to the time associated with the LLA



SV View Form synchronized with display epoch

Enter the time into any RED highlight box. The GUI will synchronize

Click for 3D

3D Version of the same plot and selected epoch point