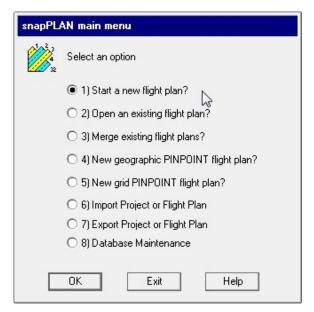
### **Terrain Following Flight Planning**

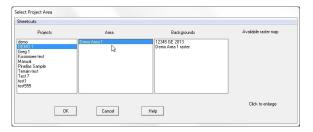
# Terrain Following in snapPLAN

The X-Track Software includes an option to flight plan and fly a terrain following plan for the purposes of maintain a specific GSD (ground sample distance). Theses instructions assume that

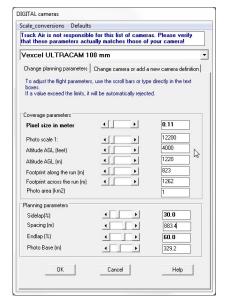


the planner has experience in Tracker flight planning and does not go into specifics of creating the initial flight plan.

1) To begin, you must have an area or background prepared or imported in Tracker. Open your snapPLAN module and select "1) Start a new flight plan?"



2) Select your project and area or background.

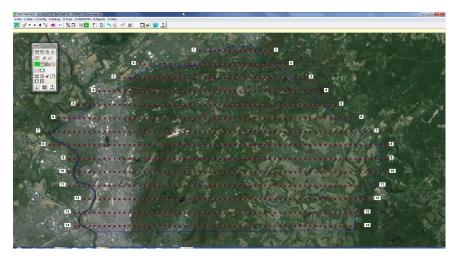


3) Select your camera and set the parameters for your flight.



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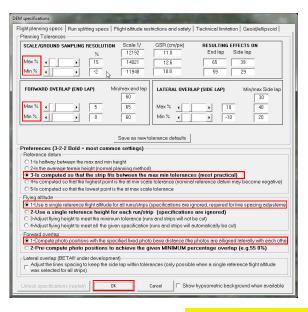
#### **Terrain Following Flight Planning**



4) Create your flight plan and save it.

- 1-Extract DEM data for the current area
- 2-DEM normal flight planning
- 3-DEM create hypsometric background
- 4-DEM load existing hypsometric background
- 5) On the tabs at the top select 6-DEM/DTM and select :
- 1- Extract DEM

- 1-Extract DEM data for the current area
- 2-DEM normal flight planning
- 3-DEM create hypsometric background
- 4-DEM load existing hypsometric background
- When complete return to the tab and select:
- 2- DEM normal flight planning



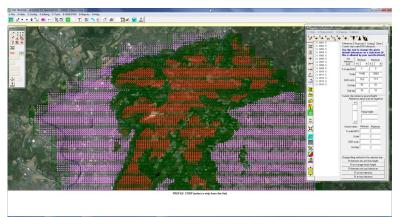
- 6) Set your Min/Max settings for GSR and FOL and in the Preference box at the bottom you should have:
- ⊙ 3 for Reference datum

Click OK

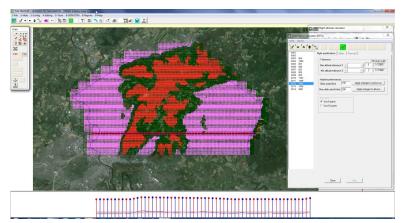


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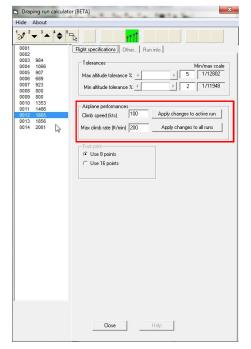
### **Terrain Following Flight Planning**



7) Once the DEM is applied and displayed select the tab at the top of the DEM flight altitude calculator "4 -Draping" to calculate the terrain following.



8) The Draping run calculator opens and displays the list of flight lines. Selecting each flight line will show you a profile view at the bottom of the screen. Zoom the profile view using the zoom buttons at the top of the Draping run calculator to see the full view of the profile.

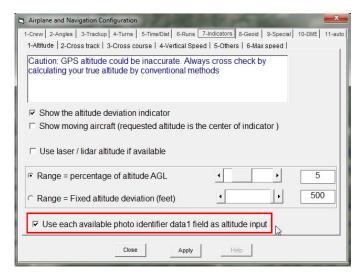


9) You can set the Climb speed and Max Climb Rate for your particular aircraft and apply the changes to each active run separately or to all runs using the buttons in the Airplane Performances box.



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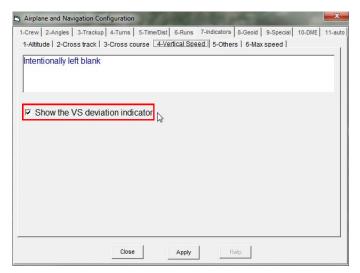
#### **Terrain Following in SnapSHOT**



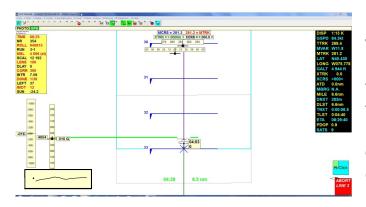
10) Once the flight plan is opened go to:

Tab 4 - Config; 2 - Airplane and Nav configuration; 7- Indicators and help for navigation;

1- Altitude. Check the box at the bottom of the window as shown.



11) Click the tab 4- Vertical Speed and activate the Vertical speed deviation indicator.



12) In flight you can view the deviation indicator with the green line indicating you are at the correct altitude; if you deviate it will turn red. Also at the bottom you will see the terrain profile indicator that shows the plane as a black dot. The black dot indicates where you are on the flight line and gives an indication of the terrain changes coming, either up or down.

