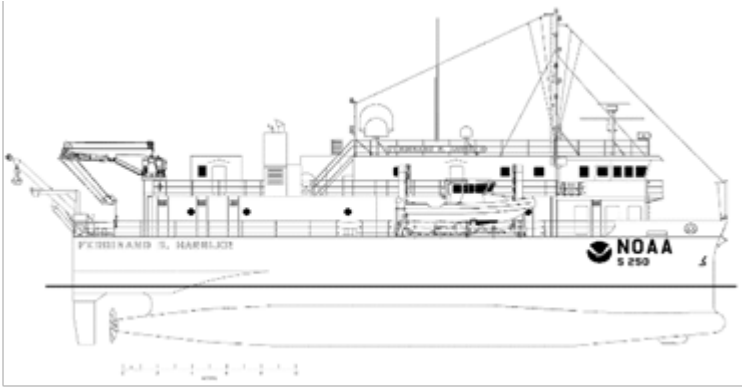
***Ferdinand R. Hassler* Holiday Line Planning in Caris without Holiday Finder**

Standard Operating Procedures



Revision History

Date	Revision Description (Reason/What)	Updated by
08/18/2020	Original SOP from NOAA Ship TJ	NOAA Ship TJ personnel
05/23/2021	Review for FH	ST Tigges
11/19/2023		LT Debroisse

How to holiday and development plan in Caris-ArcMap-Hypack WITHOUT using Holiday Finder

1. Overview and Scope

If your survey has holidays and/or developments, follow this SOP for a more in depth way of creating a plan for acquisition. There is a simpler and faster way to find holidays than this manual method, though this method is useful too, especially you do not have access toQC Tools in Pydro.

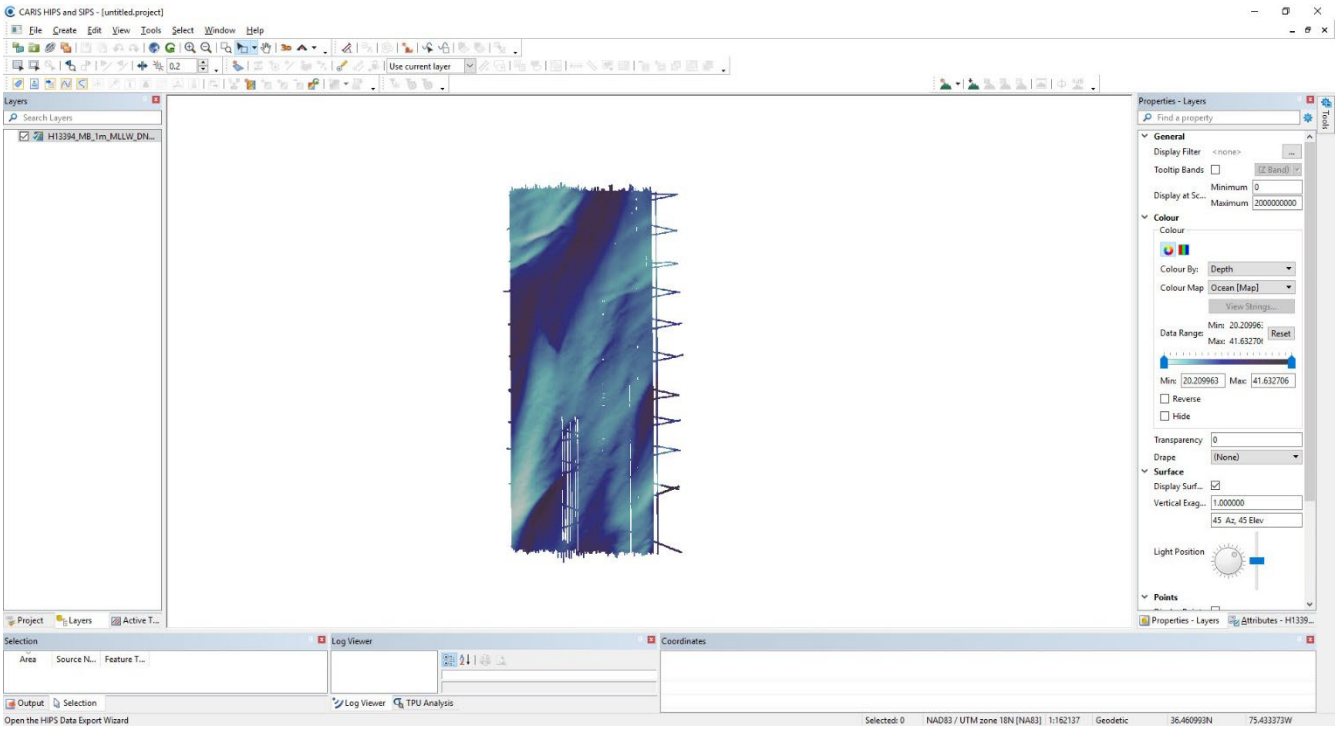
2. Procedure Inputs and Outputs

Inputs: Surface or mosaic

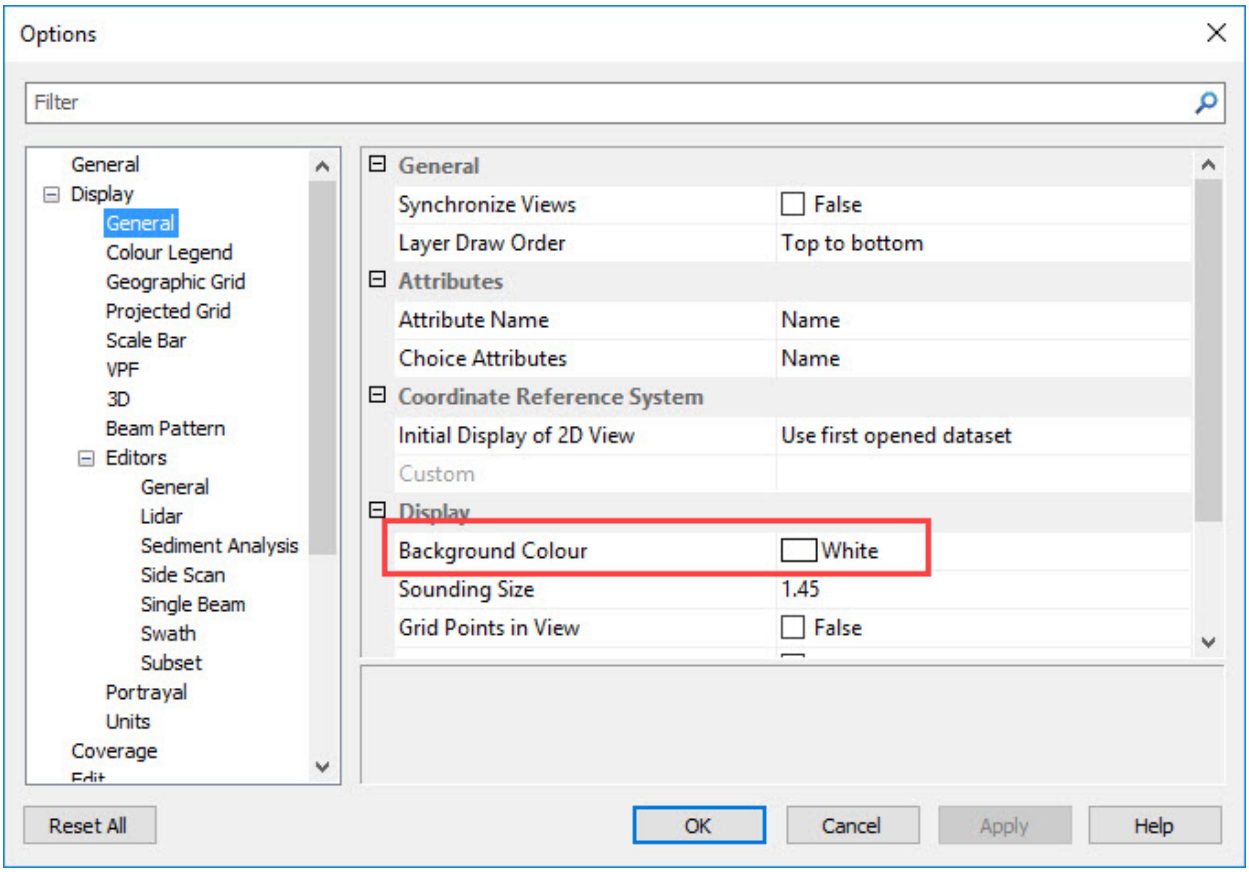
Outputs: Holiday/Development .lnw file

3. Procedure

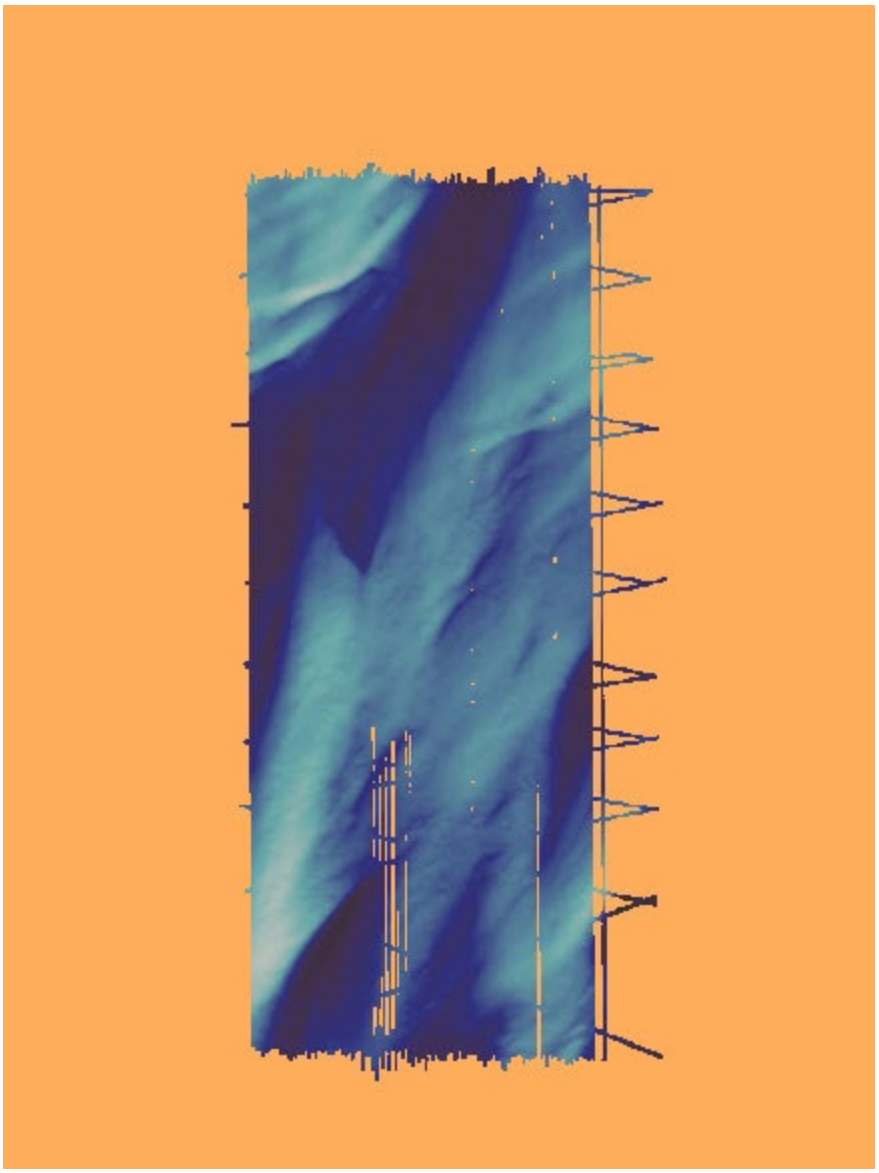
1. Open your most recent surface in Caris. If your surface is multibeam, I suggest you go into the layers tab and change the color map to something monochromatic, as we will be changing the background of the field of view. Below is an example of coverage with the color map “Ocean.”



2. Once you have your monochromatic surface, navigate to ‘Tools’ and then select the ‘Options’ button. This will pop open a window. On the left hand side, select the ‘General’ tab under the ‘Display’ option. In the window, navigate to the background color option, click it, and change it. It is suggested to pick a color that would be obvious against your surface. For this example, we are using orange. (Other good colors are hot pink, neon slime green, highlighter yellow, etc. Anything that contrasts greatly with the color of the surface should work fine.)

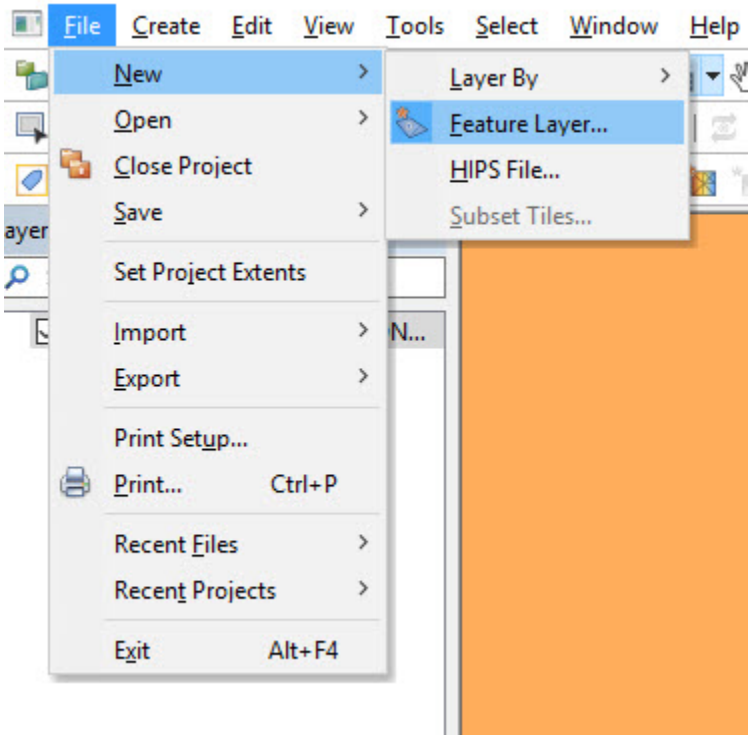


3. Your surface should now vaguely resemble the below image. The holidays can be easily seen because the background color peeks through the surface in these areas.

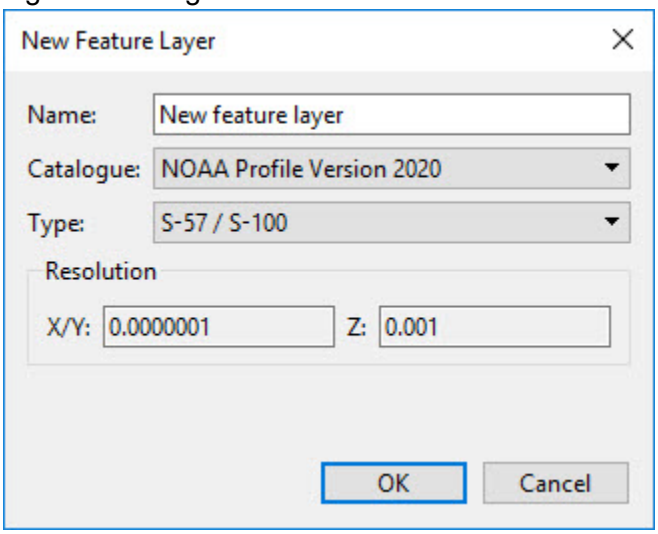


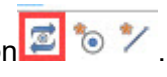
4. You’re now ready to make an actual plan. To start, navigate to the ‘File’ tab and select ‘New’ and then ‘Feature Layer’. You can also just select the ‘New Feature Layer’ button located in one of the

tool bars (it is the same symbol as the one next to the ‘New Feature Layer’ option).

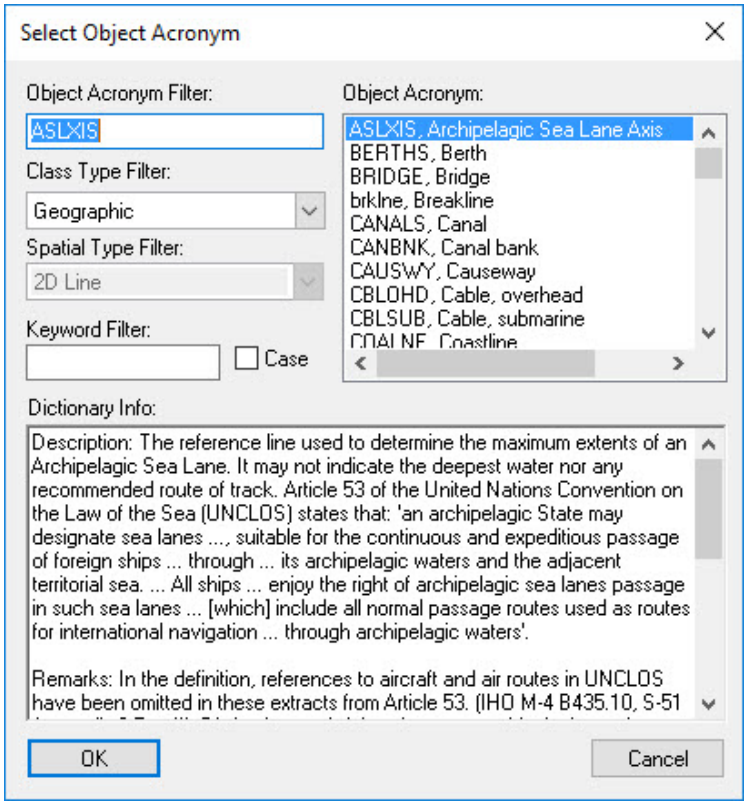


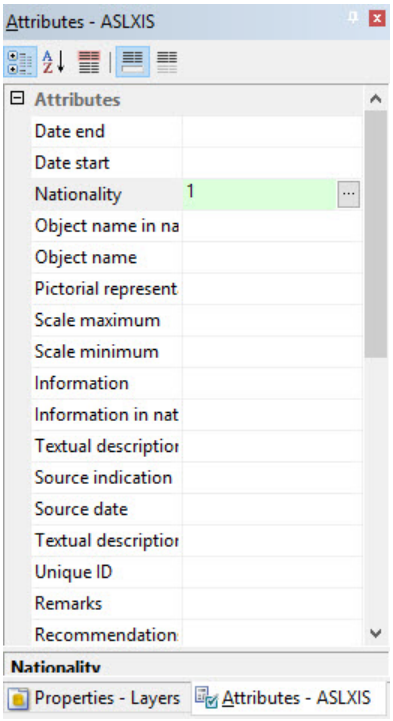
5. This will prompt a window to open. In this window, re-name the layer to HXXXXX_Holidays. Change the settings to match those shown below.



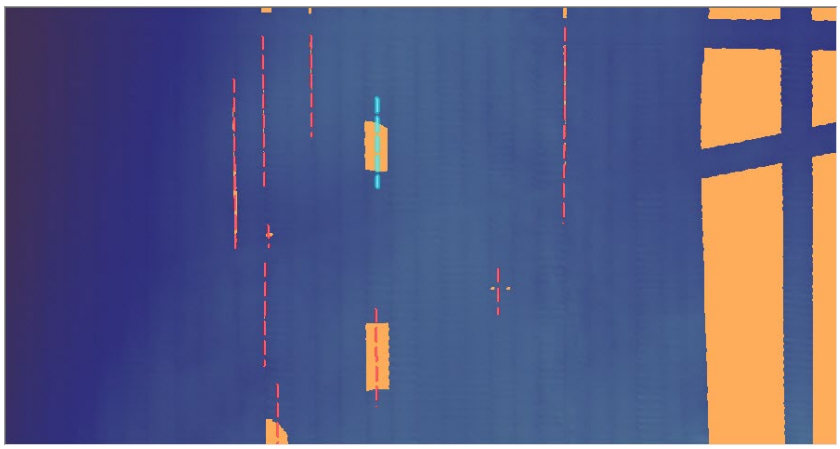
6. You will now be able to create a plan. Hit the ‘Repeat New Feature’ option  . Then select the ‘New Line Feature’ option  .
7. When you select the New Line Feature option, a window will pop open. The window is asking for what to set the object as. It is suggested to use the ASLXIX option. It does not really matter what it

is set as because these are just going to be used as a visual aid and is not going to carry any sort of important information with it like other features. ASLXIX requires only one mandatory attribute: ‘Nationality’. Place a “1” here and hit okay when it asks for information.





8. You are now free to create lines over any holidays or developments you have. **Developments are usually across-track, while holidays are usually best in the along-track direction**. To create a line, just click above and below the holiday. Press enter to create the line.
9. Once you have something similar to below it is now time to export them.



10. The dashed lines are where the lines for acquisition will be. Select all lines by highlighting the holiday layer in the layers tab and hitting ctrl+a. Then, export these to an S-57 .000 file by clicking File>Export>Selection>S-57. Name your file whatever you'd like.
11. You can now drop this file into Hypack and make lines over it using Line Editor. Save this .lnw file as your new holiday/development line plan.