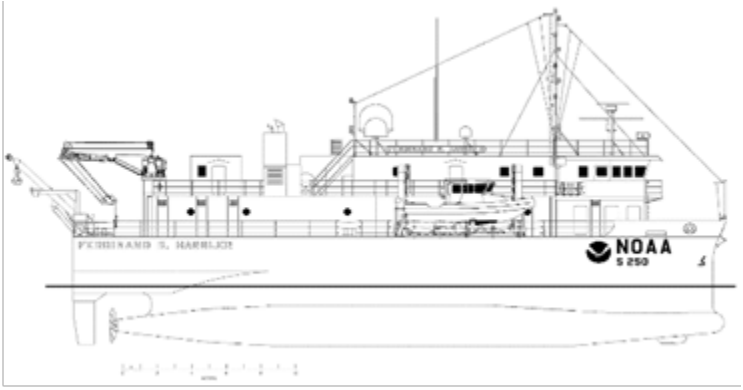
NOAA NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION UNITED STATES DEPARTMENT OF COMMERCE		NOAA Ship Ferdinand R. Hassler Controlled Document

Ferdinand R. Hassler Holiday Line Planning in Caris HIPS

Standard Operating Procedures



Revision History

Date	Revision Description (Reason/What)	Updated by
08/10/2020	Original SOP written for NOAA Ship TJ	NOAA Ship Thomas Jefferson personnel
05/23/2021	General Review and Update for FH	ST Tigges
11/19/2023	Review	LT Debroisse

1. Overview and Scope

This SOP outlines how to create a holiday plan in Caris HIPS. You can then drop this holiday plan into Hypack to create a .lnw line file if you choose. This SOP assumes a working knowledge of Pydro's QC Tools, Caris, and Hypack.

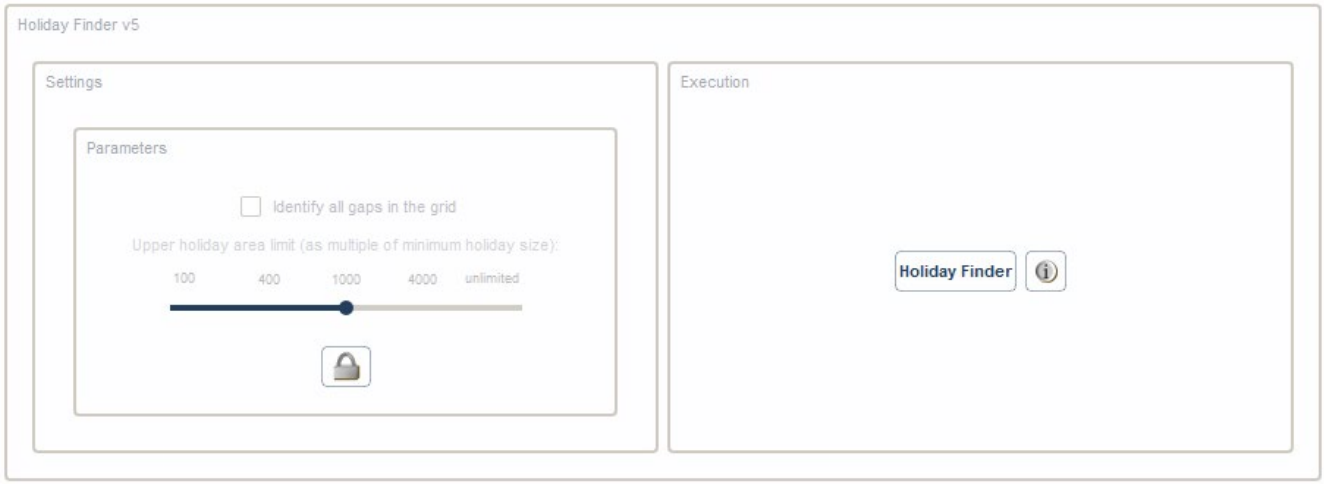
2. Procedure Inputs and Outputs

Inputs: Holiday files from QC Tools' Holiday Finder, whatever version of Caris you are using for your project (this SOP is written for 11.3), most recent Caris .csar surface.

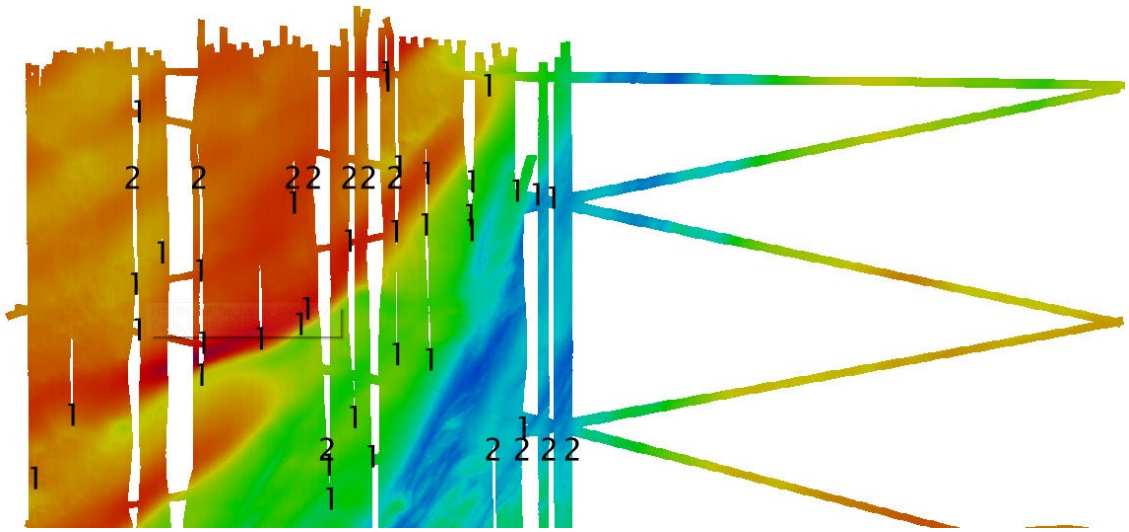
Outputs: Holiday plan.

2. Procedure

0. Open QC Tools and run Holiday Finder on the most recent .csar surface for the project. Once Holiday Finder is finished, open the outputs folder and find the .000 output file.



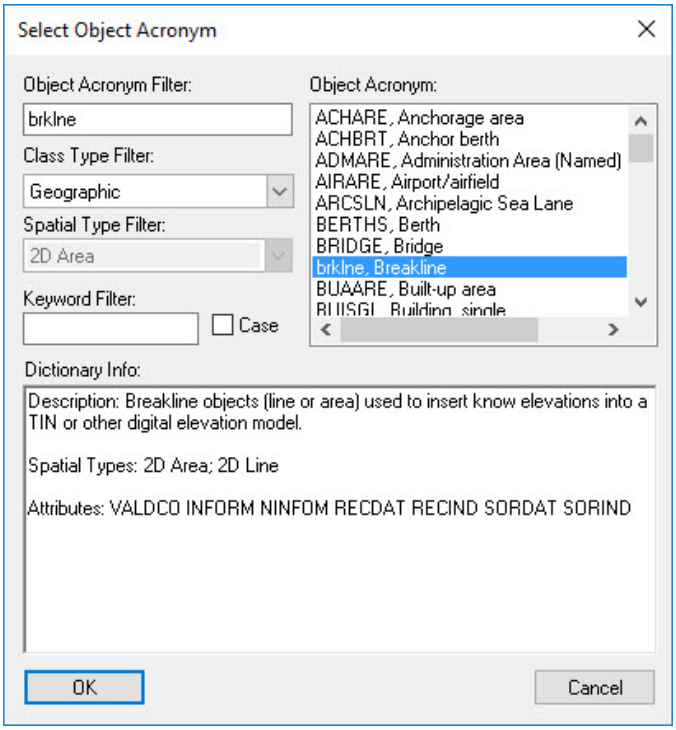
1. Open Caris and load in your holiday finder file (.000) and surface. A bunch of black numbers should pop up where there are holidays. To make them a little bit easier to see, navigate to the *Properties – Layers* tab (usually on the right hand side) and find where it says “Soundings”. Under this option there should be a check box next to “size”. Check this and then change the size of the numbers to make them easier to see (I usually use 6 or 7). You should now see something resembling the image below. You can also override the color to make it something more visible. I prefer hot pink.



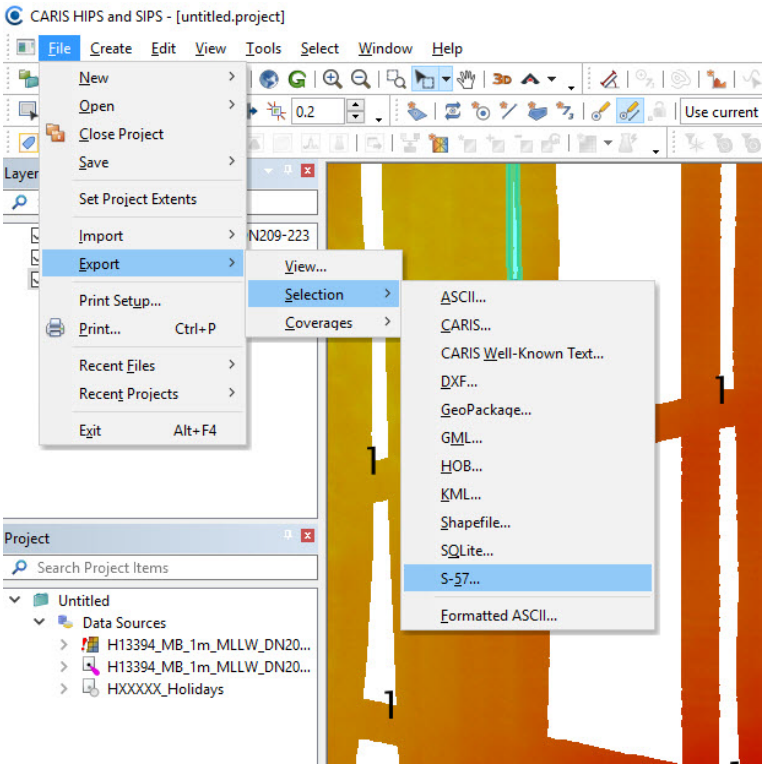
**This specific SOP is going to use the polygon method for holiday planning, but using lines instead of polygons works the exact same. It is up to your preference. **

2. Find the “New feature layer”  button (you can also go File>New>Feature Layer). Name your feature layer whatever you’d like. However, HXXXXX_Holidays is pretty standard.
3. With this layer highlighted in the *Layers* tab, hit the “repeat new feature” button (this will make it so that you don’t have to input attributes for each polygon you make) and then select the “area feature” option.

4. A window will prompt open. You can really select any sort of object. (Some make more sense than others. I like to use brklne or GRIDIRON because they require few attributes to be filled out and less work is better.) Hit *OK*. Navigate to the ‘Attributes’ tab on the right hand side and fill out anything that’s red Just put anything here (it doesn’t actually matter).



5. Now you can draw polygons around your holidays. It is best to group holidays that are in a line together just for the sake of efficiency.
6. Once you have the polygons created, making sure that the holidays layer is selected, hit ctrl-a. This should select all of the polygons in this layer. Without clicking on the screen navigate File>Export>Selection>S-57. Name your file whatever you’d like, but typically we use HXXXXX_holidays.000.



7. With your now .000 file full of polygons, open Hypack. Add file and copy your holiday file into the background section. You should see your polygons over your surface now. You can either leave these the way they are and paint them in with multibeam or you can create lines over them in Hypack (see line planning SOP). It is up to the sheet manager on how they would like to tackle the holidays. Use your best judgement.