

# Integration of CARIS and Fledermaus.

## 1.1 Exercise – Activating the CARIS Dongle.

This short exercise will aid you in activating the Caris dongle if it is determined necessary.

There are several configurations possible with your machine that may or may not see an active CARIS hasp attached to your machine. We will address these separately. Which of these situations apply to you?

- a) I am using CARIS on a non-windows machine (**see A**).
- b) I have not used this machine with CARIS and I don't have a Fledermaus dongle driver installed on this machine (**see B**).
- c) I either have CARIS currently running on this machine, or I have a Fledermaus dongle driver installed on my machine (**see C**).

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A) Unfortunately CARIS no longer supports their libraries for non-windows platforms.

B) You will need to:

- Copy datum.dat from an existing HIPS installation to this machine (**remember where you put it, because you will need to use this location to set up variables later**).
- Install the HASP dongle driver from the CARIS installation CD.
- If using a local dongle (**white**), copy the file Loc\_key.dat **from the machine running CARIS which the above dongle was obtained**. It can be placed in the same location as the datum.dat file.
- If using a network dongle (**red**), copy the file net\_key.dat **from the machine running CARIS which the above dongle was obtained**.

C) No drivers or .dat files need to be copied.

**Note:** The import of Caris weighted Grid will only work with this option.

## 1.2 Exercise – Setting up CARIS HDCS Environment Variables.

In this exercise you will access window variable management utility and add variables to integrate with the CARIS libraries.

Which of these situations apply to you?

- a) I am using CARIS on a non-windows machine (see A).
  - b) I do not have CARIS on this machine (see B).
  - c) I am using CARIS HIPS 5.1 or newer (see C).
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A) You will need to:

**Build the PFM on a windows machine. Caris no longer supports the libraries on non-windows platforms.**

**Once the PFM file is build, you can edit the data on any platform Fledermaus currently supports including Linux, Sun, SGI and of course... windows.**

B) You will need to:

**Windows 2000 and Windows XP**

**Click the start button.**

**Select setting and then control panel.**

**Select System to bring up the system properties box.**

**Select the advanced tab.**

**Click the Environment Variables button, then press the new button and enter the values described below. The BOLD text is the variable names and the directories in *italics* are the variable values. Note the variable names are case sensitive and must be written exactly as they appear here.**

You might consider organizing all of the CARIS files into a single directory before set these variables and start using Fledermaus.

**Add the HDCS\_DATA\_PATH** - This variable specifies the HIPS data repository. normally set to: *some\_directory\HDCS\_Data*.

**Add usIXhasp\_key** and set it to point to either *Loc\_key.dat* OR *net\_key.dat*, depending on which one is used (local or network white or red respectively).








C)

- No changes need to be made

## 1.1 1.3 Exercise – Loading and Testing data in a CARIS Project using PFM Direct.

**Data Input:** HDCS project      **Data Output:** pfm, ndx, bin and lin files

This exercise has the general purpose of teaching you how to load data in a CARIS project, but we are also going to test the data using Average Gridder along the way. Any problem loading the data in Average Gridder, will indicate a problem with the way the above setup was performed.

1.  Start PFM Direct.
2.  Click the advanced button.
3.  Select *ADD HIPS Data* which will bring up an **Open Caris Project window**.
4.  Click the Change button and select the Caris project directory that contains the files you want to process. If you do not see anything appear in the projects display area, then you might check to ensure that your dongle setup is correct and the Caris project is not empty.
5.  Within the project display area, navigate to the day subdirectory. You should see a list of survey lines appear in the Lines display area.
6.  Click the Open button to add the lines into the processing queue. If you are just testing your CARIS dongle and variable setup, use only a few files, otherwise continue loading lines until all subdirectories have been loaded. You should see these files being added to the Advanced Input File Selection file display area.
7.  **Once you are happy with your line selection,** Click the OK button on the Advanced Input file Selection window to close it.
8. If you are testing your installation, in PFM direct, select grid input files in the operation pulldown. If there is a problem with the procedures carried out in exercises 1.1 and 1.2 then the files will not grid properly.

**NOTE:** Even if you are sure that your setup is correct, but you are not familiar with the layout of the survey, or the data quality, you might grid the data as a quick scan to see if there are any corrupt data points with a gross position error. These outliers may increase the data bounds by a considerable degree, resulting in a catastrophic software failure. PFM will try to create a grid matching the erroneously large bounds and as a consequence your computer may run out of free disk space and fail.