SonarWiz Batch Image Export Tips

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1 SonarWiz - Batch Image Export Cropping and Re-Sizing Tips

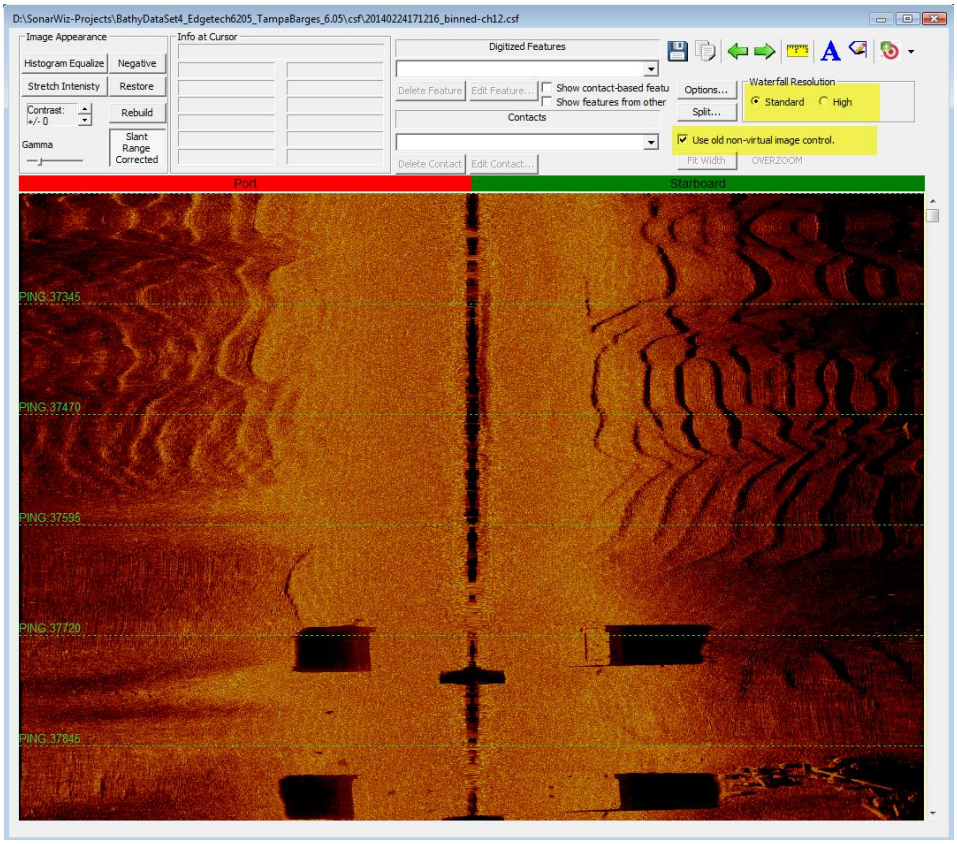
Batch image export in SonarWiz sidescan may double your aspect ratio, but thisd document shows ways to regain the original, as well as easily cropping selected portions of your data, for reports. Here are two ways to adjust aspect ratio of exported images for reports, correcting for what you see as a change in aspect ratio between DigitzerView and batch exported images, for example.

1.1 Measure your Starting Aspect Ratios

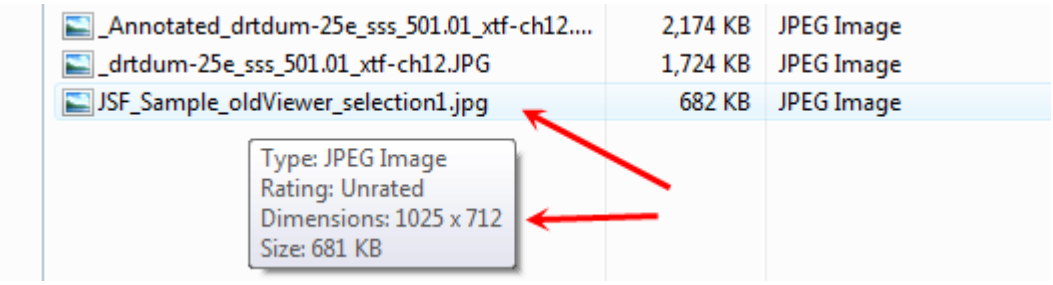
Capture an image of your DigitizerView and see what you have for an aspect ratio. You have view-mode choices like:

(1) old non-virtual image control - standard
(2) old non-virtual image control - standard
(3) virtual image control

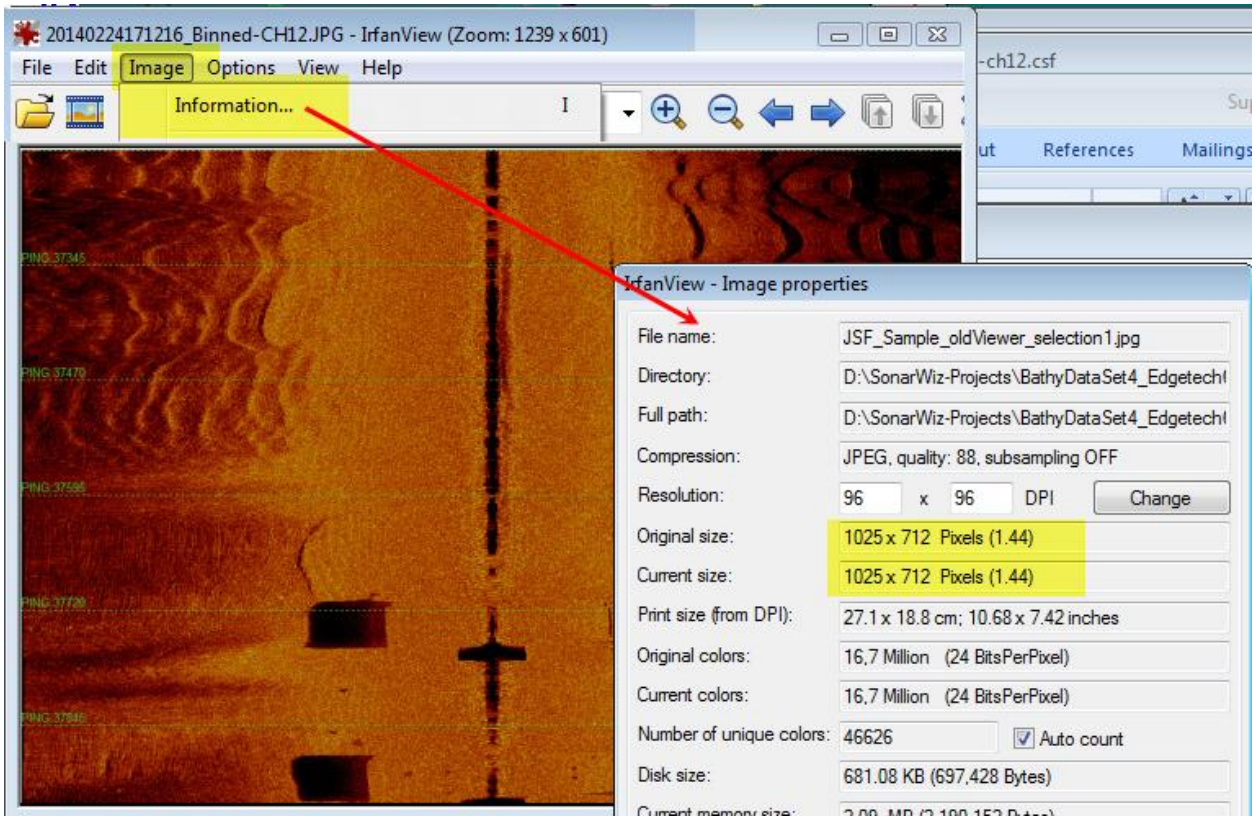
and these will have different aspect ratios, so start by deciding which view mode you prefer, then measure the image aspect ratio of the image portion you want to keep for a report. For our example, we'll suggest this image portion of an imported JSF sidescan file:



Let's assume for these examples, this is the view you like. We'll capture a screenshot of this one view, and measure the aspect ratio. We used SnagIt (www.techsmith.com) to capture and saved just the sonar portion as this image:



Another way to see the pixel-dimensions is to open the image in IrfanView, a free graphic editor (www.irfanview.com) and use Image -> Information:

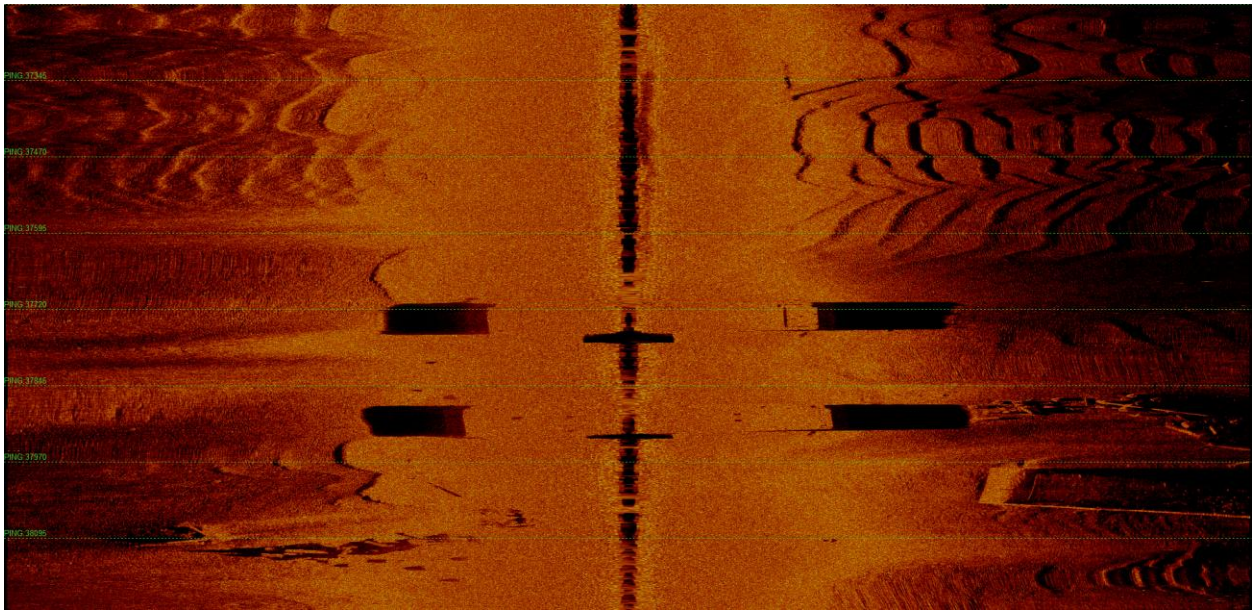


While the top menu-area image pixels show what the VIEW window size is that it showing (1239 x 601 pixels), but PROPERTIES tells you the file on the hard drive - those properties, of the file you have opened, which is 1025 high x 712 wide (712 x 1.44 = 1025), with an **aspect ratio of 1.44.**

1.2 Exported Images - Manual Adjustment Techinques

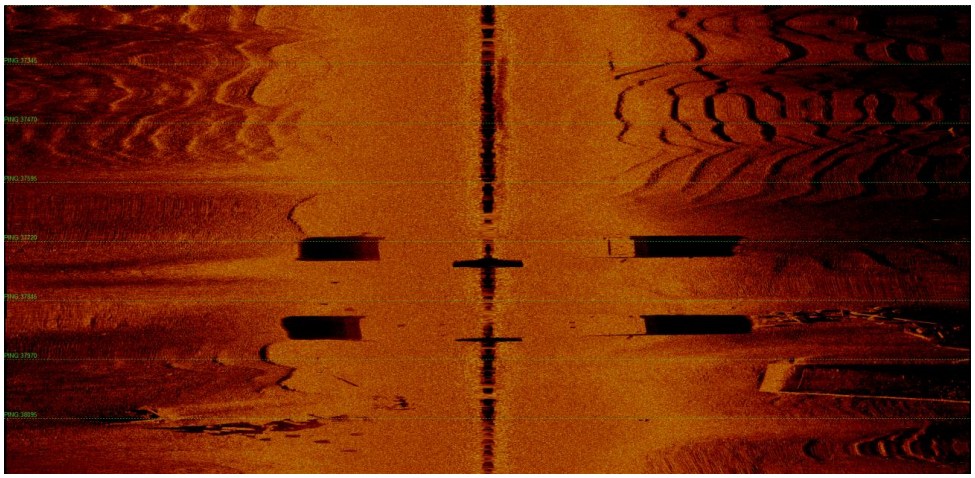
Here are two images inserted into this WORD report using Insert -> Picture then selecting the JPG image. We can manually adjust size and aspect ratio as wollows.

1.2.1 Batch Exported Image - Example Sidescan JSF



1.2.2 Image Re-sizing within a document - maintaining aspect ratio

Here's how to re-size an image like that, **maintaining aspect ratio**, after the image has been inserted into the document. In this case, we'll just make it SMALLER:

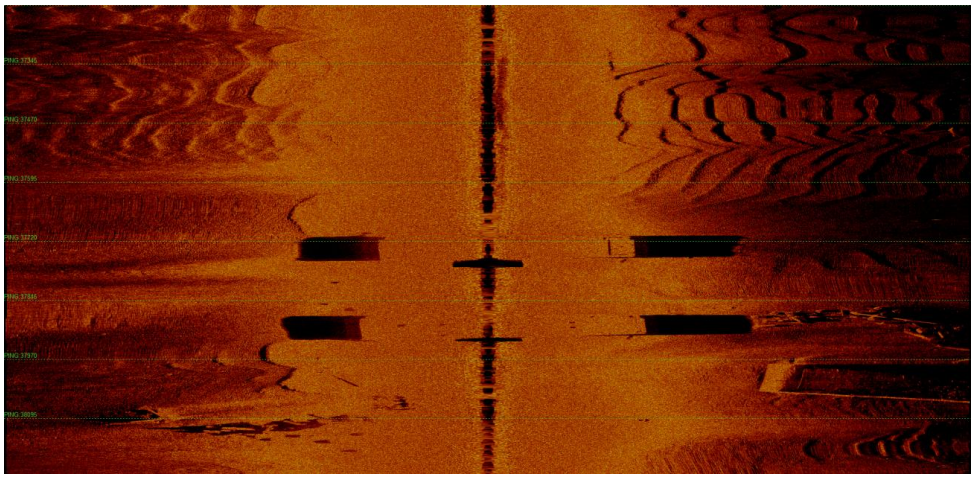


Shift the selected image margin to the left, and **pull the lower-right corner** down and right, to maintain aspect ratio, but **enlarge** the image. This pull maintains the aspect ratio. Pull it UP and LEFT to make it SMALLER. This works in a DOCX WORD file, but not in a PDF.

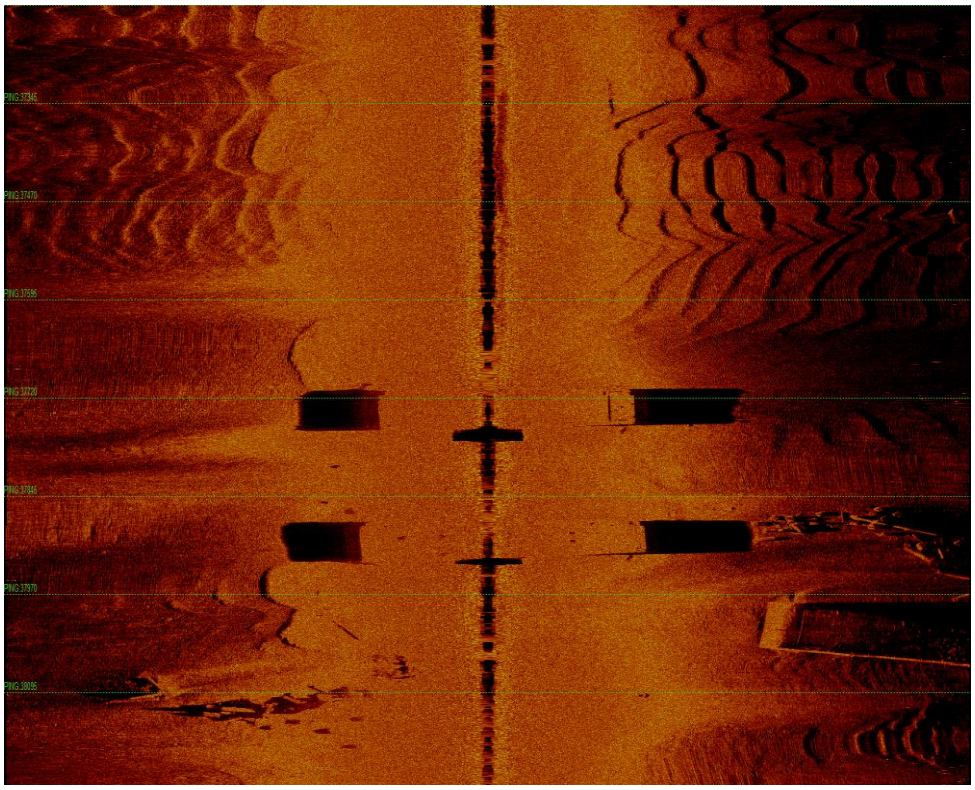
1.2.3 Changing Aspect Ratio - After Image Insert

Pull the center of the image down, to change aspect ratio, stretching vertically, if you prefer something more like what you saw in the DigitizerView.

Original image:



To create a slightly taller vertical image, but maintain the horizontal dimension, just pull DOWN on the center of the selected image:



To DOUBLE the vertical height in an example like this, is not exacting, but you would simply drag the image to twice its original height, within WORD.

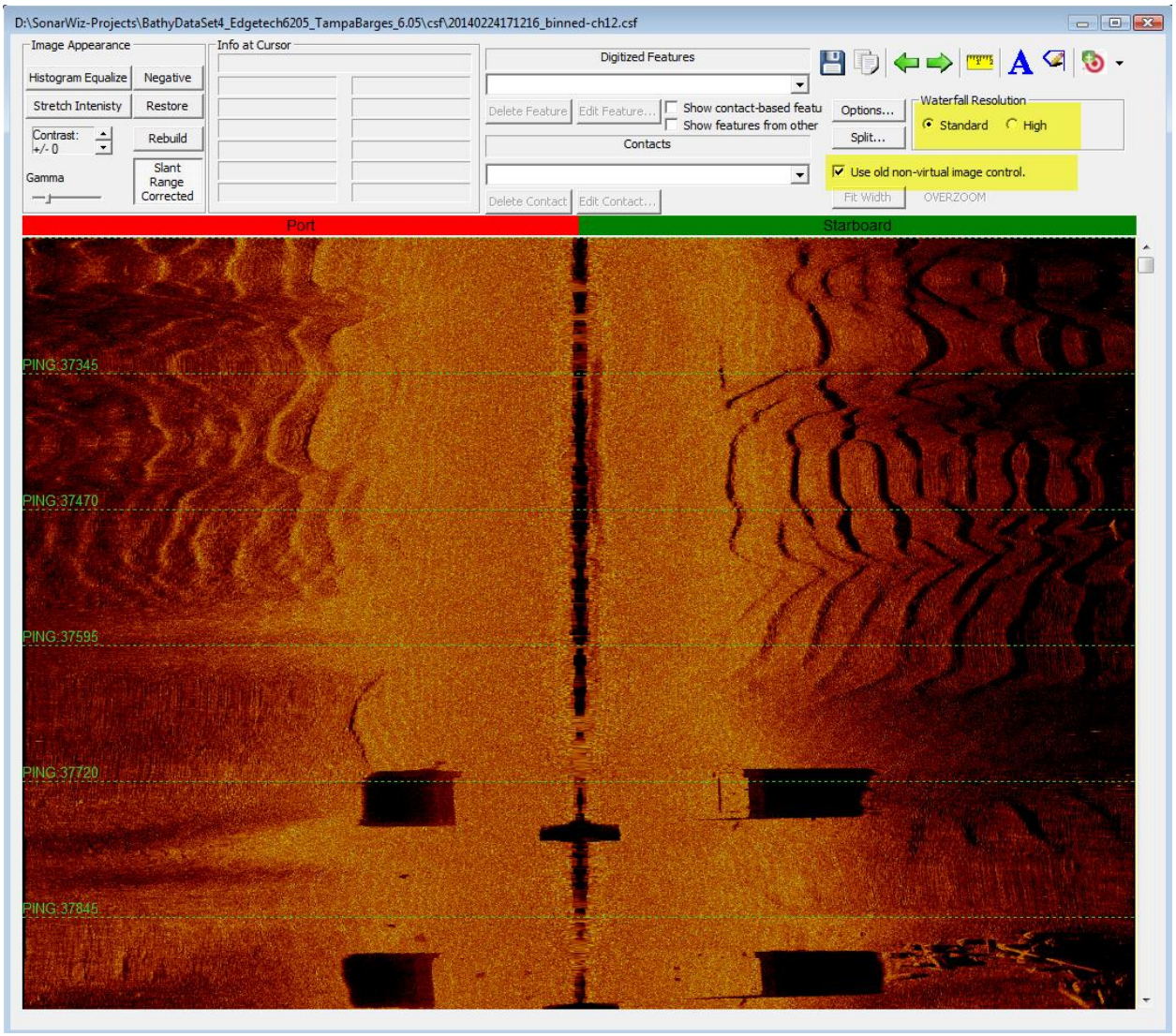
1.3 Changing Aspect Ratio - Numerical Control - Before Image insert

To really control the numerical values in your aspect ratio, use IrfanView and read the original numbers one of various ways, like noted above. Adjust the aspect ratio BEFORE "insert" into WORD, to get a more exacting change.

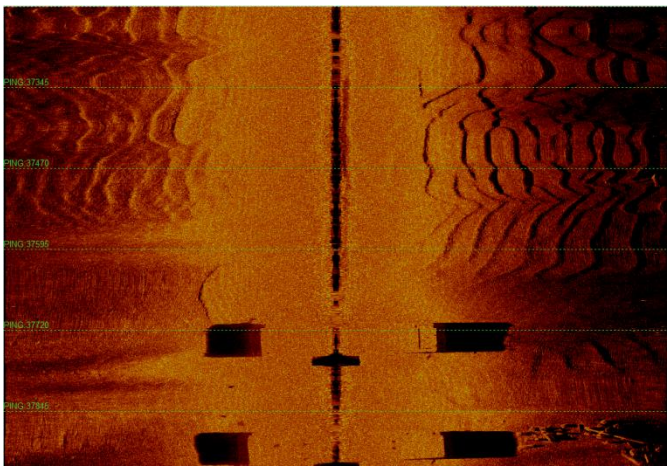
Here's an example of how to exactly match the aspect ratio we like in an old- on-virtual, standard DigitizerView image. We'll change a batch-image-export image from 2.88 to 1.44 aspect ratio, to match what we liked in the DigitzerView portion of the same file.

1.3.1 Original Digitizer View image Aspect Ratio measurement

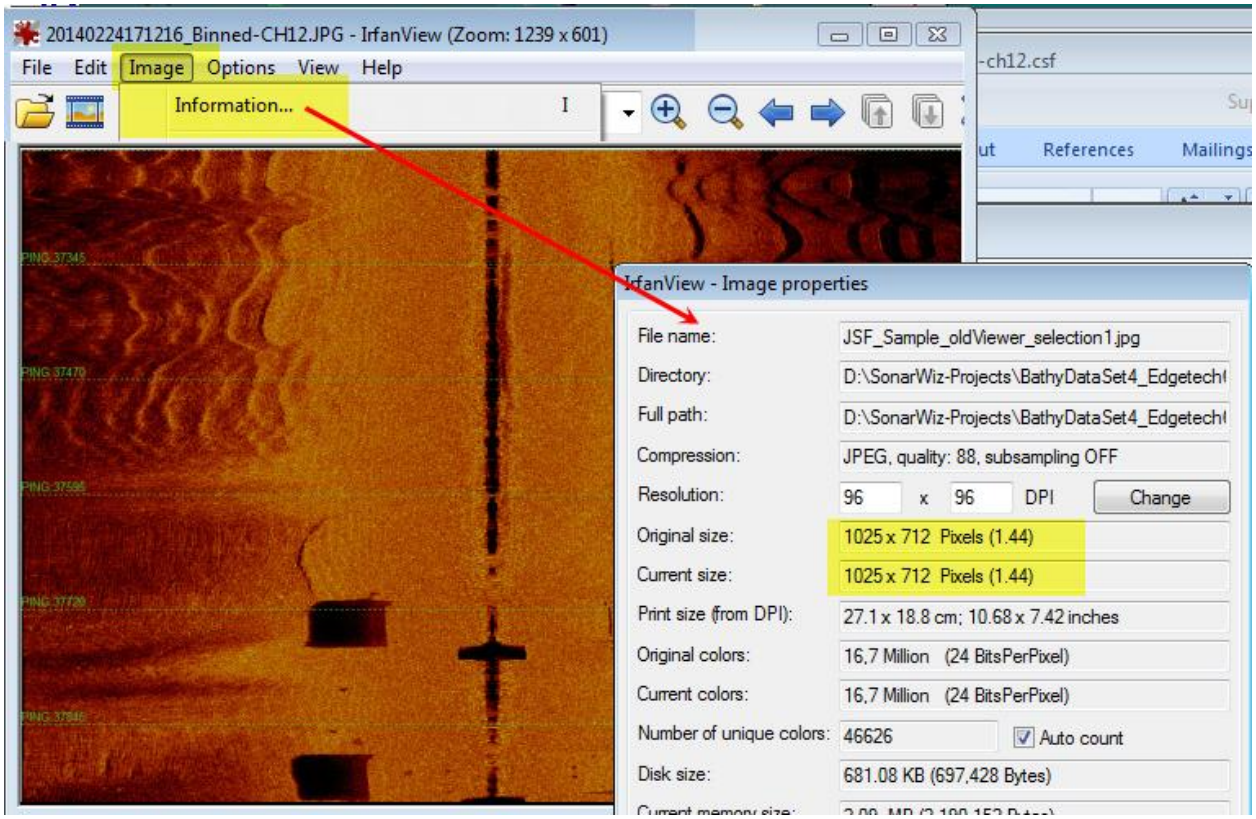
Here's the original DigitizerView image we want to re-create in an exported image:



We used SnagIt to capture just the sonar portion of that dialog:



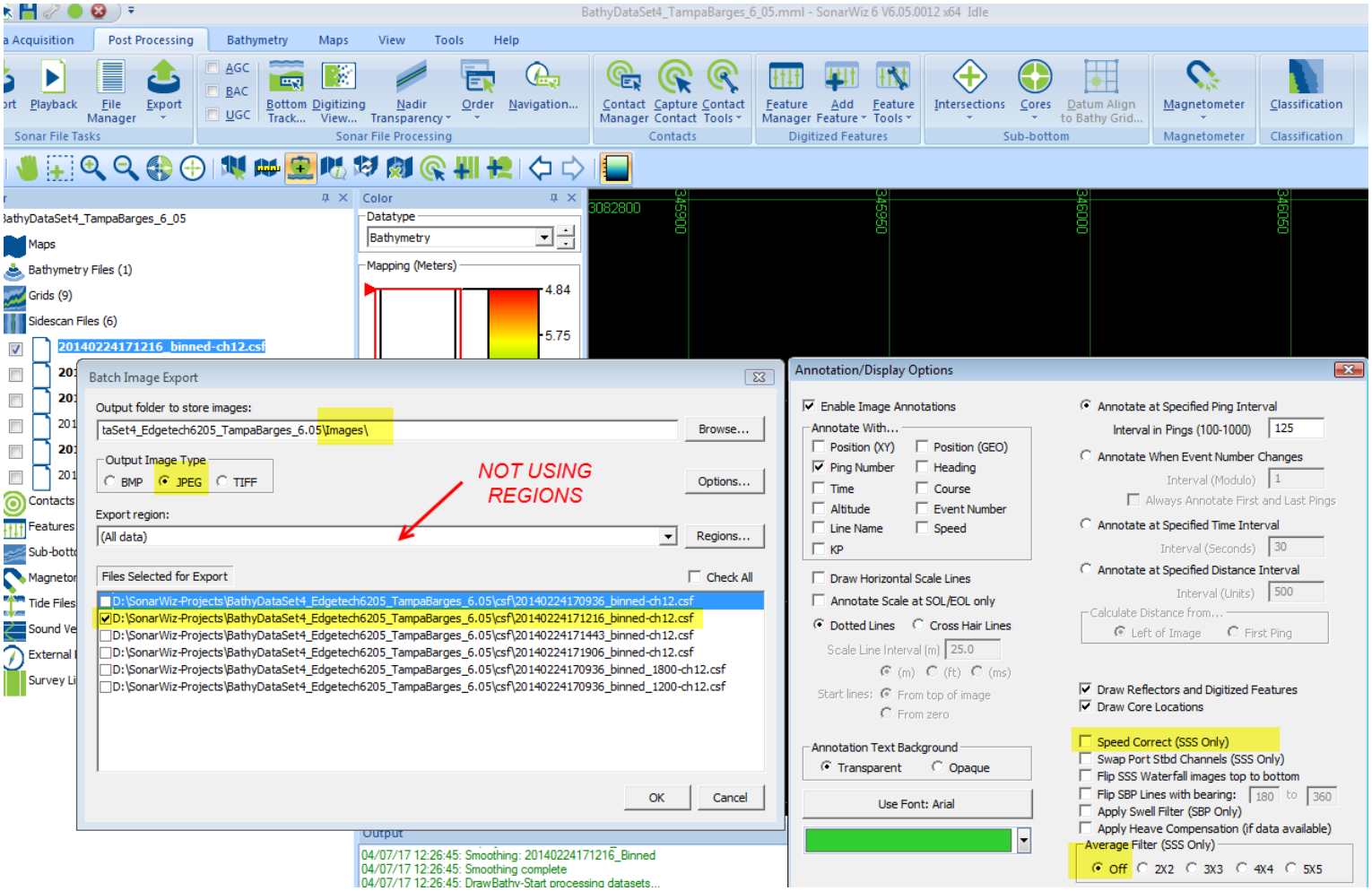
The aspect ratio of just this sonar portion of the image comes from the pixel dimensions:



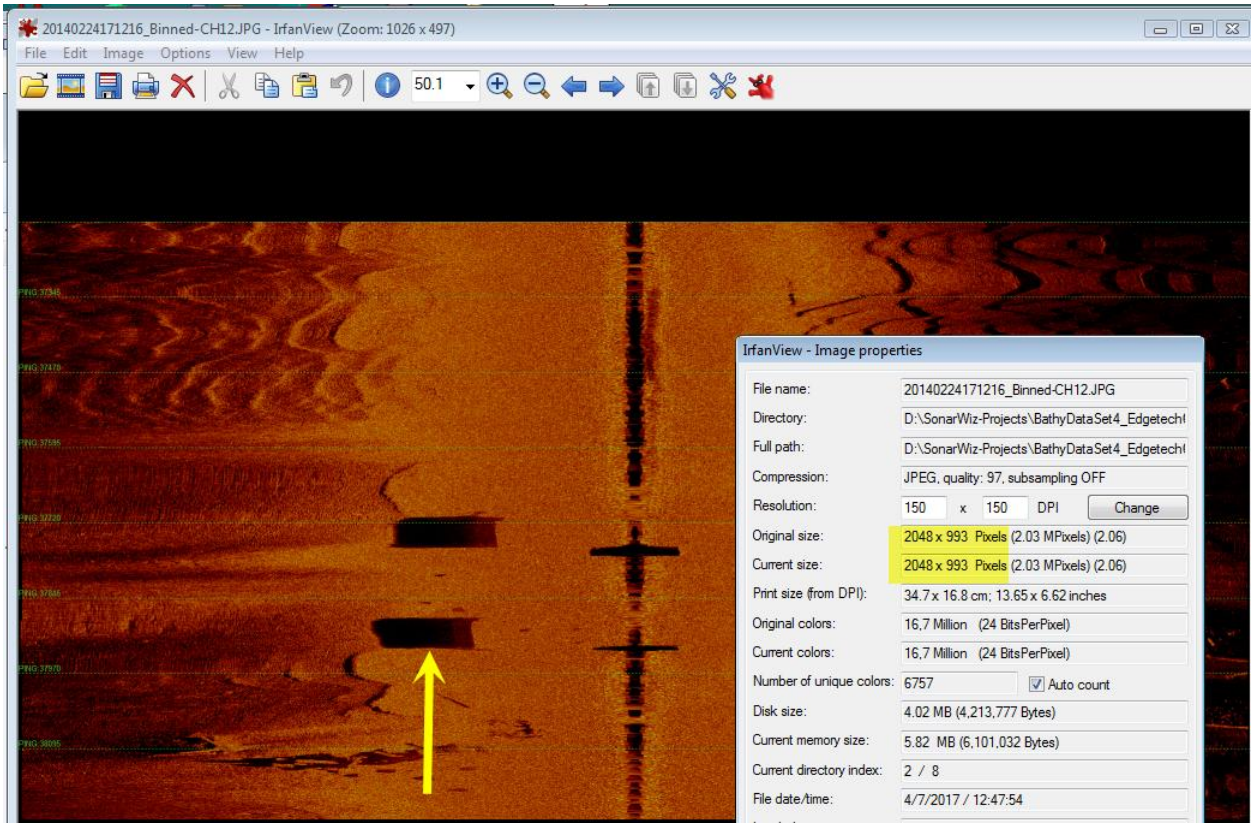
IrfanView says we like a 1.44 aspect ratio. Width is 1.44 times height. Using Irfanview, you can get that same aspect ratio in any exported image, using **Image -> Resample**.

1.3.2 SonarWiz Batch Image Export Result - Starting Aspect Ratio

We used these export options on the file above:

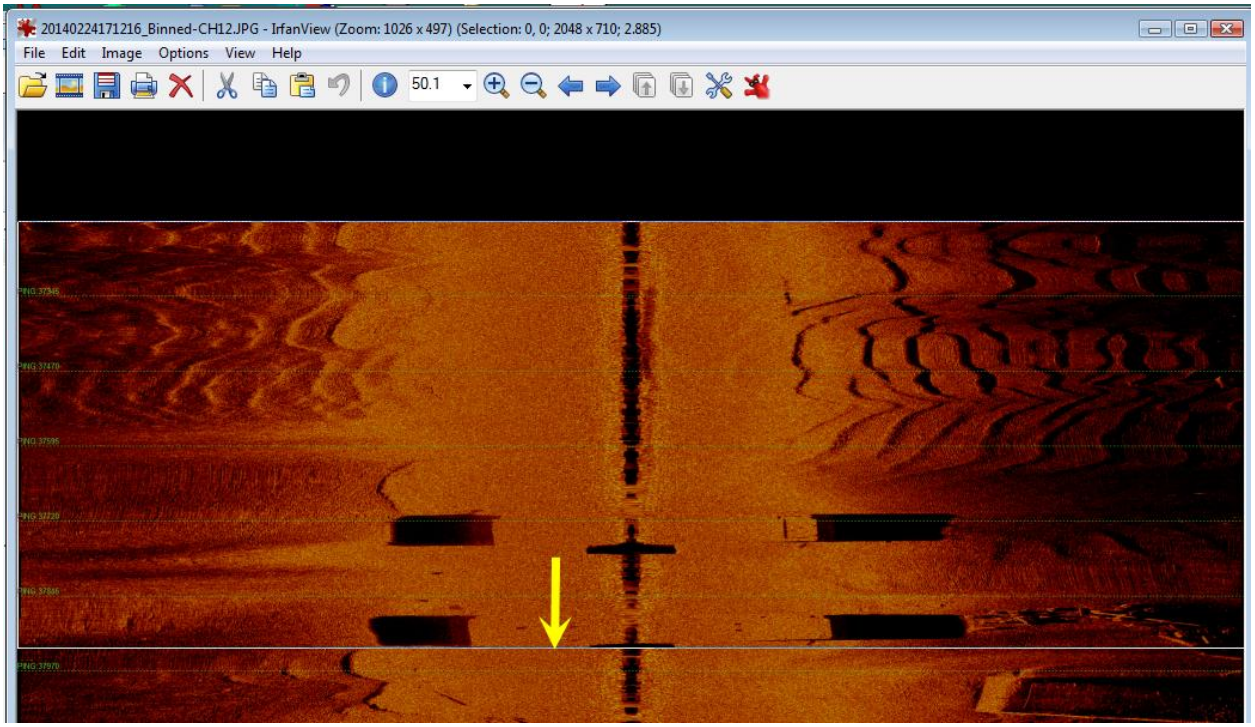


The resulting JPG image (full image) shows like this. We will want to crop to the yellow arrow tip:



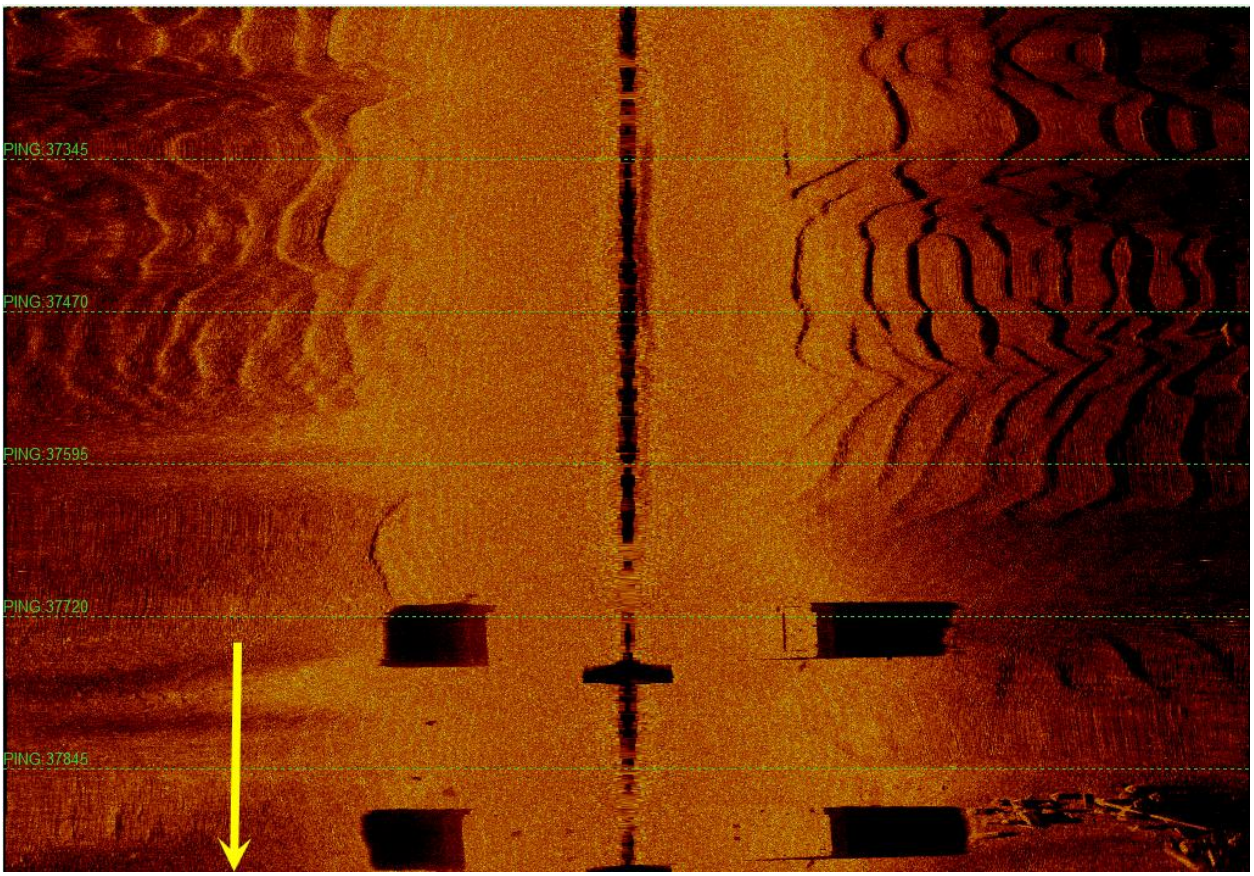
1.3.3 Image Cropping Example

The batch image export exports the full file, and we will crop this to the exact region shown in the DigitizerView, which we like. You crop visually by just selecting the image region you want to keep, then type CTRL-Y:



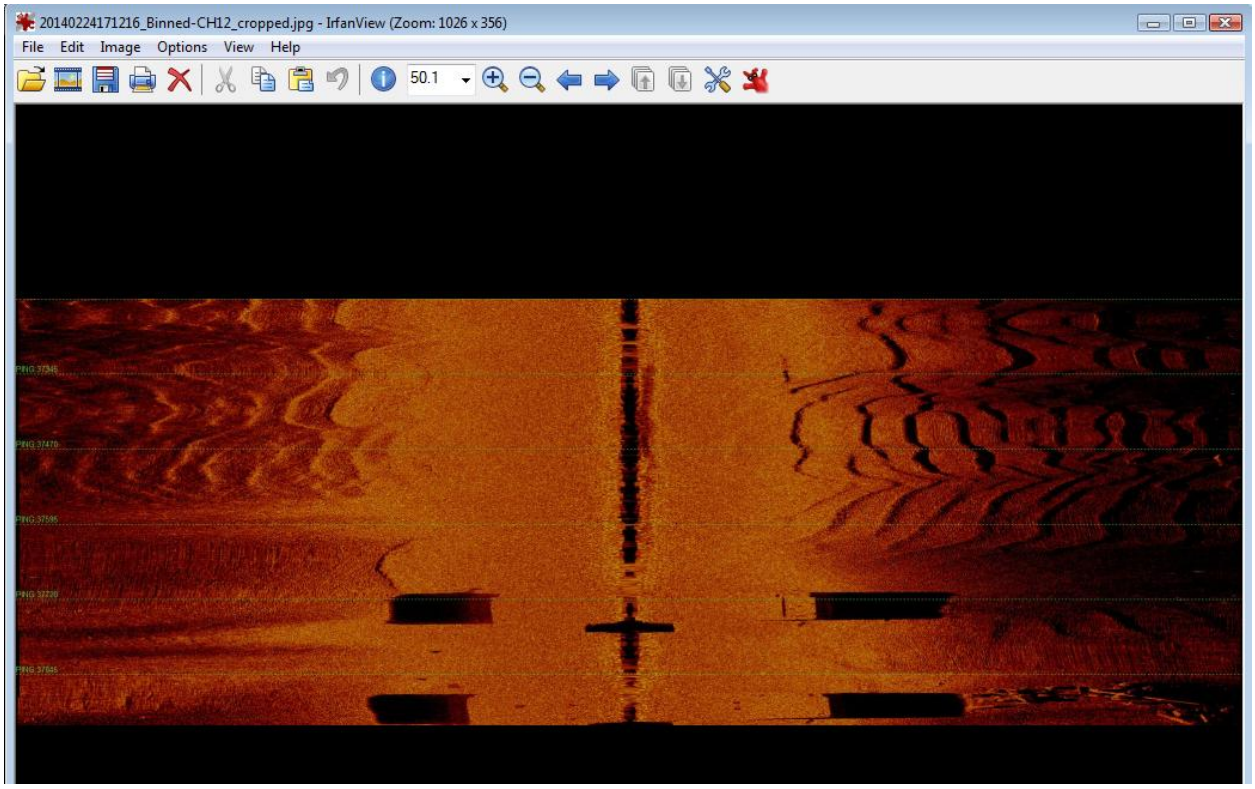
Before typing CTRL-Y you can fine-adjust any side of the crop ... like the lower bound, to get it at the same exact view as what we had in the DigitizerView:

DigitizeView image of the same area:

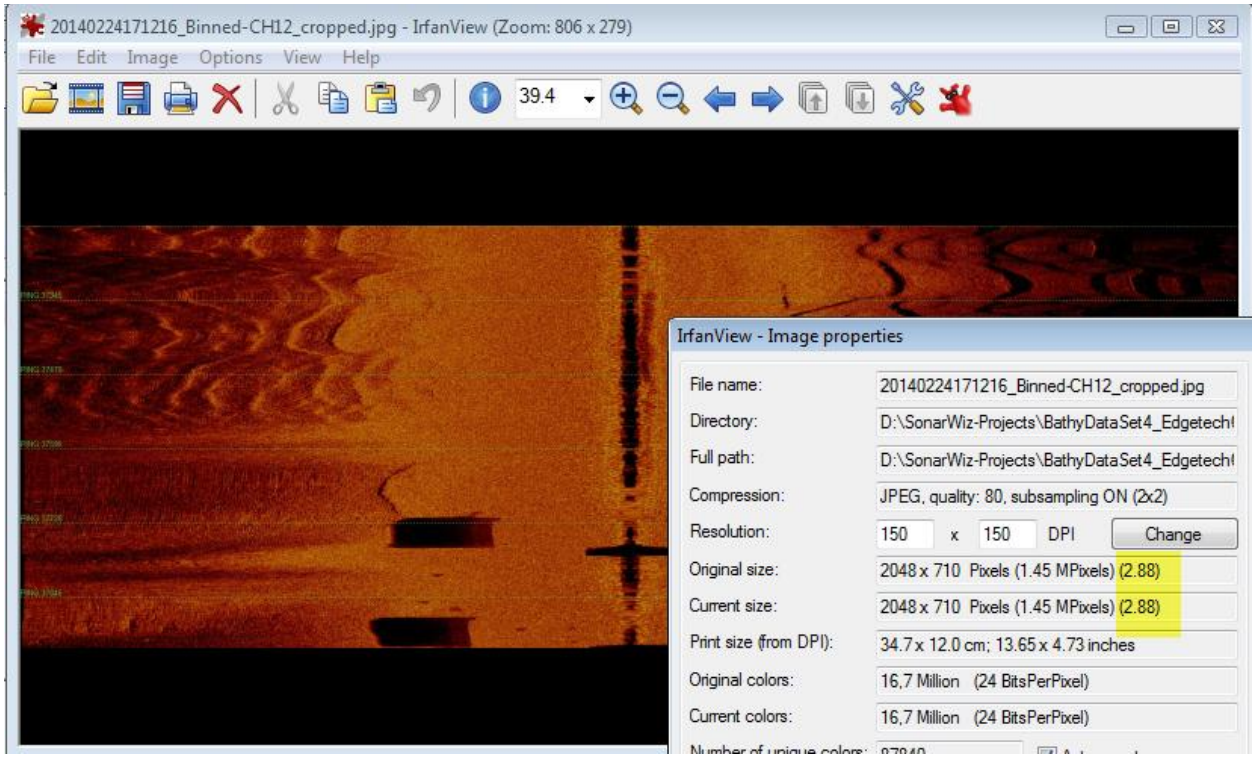


Then type CTRL-Y and it crops, then SAVE the file under a new name. See what pixels height x width remain, after saving this as <same_file>_cropped.jpg and re-opening it:

Cropped, Batch-Image-Export Image of the same area:

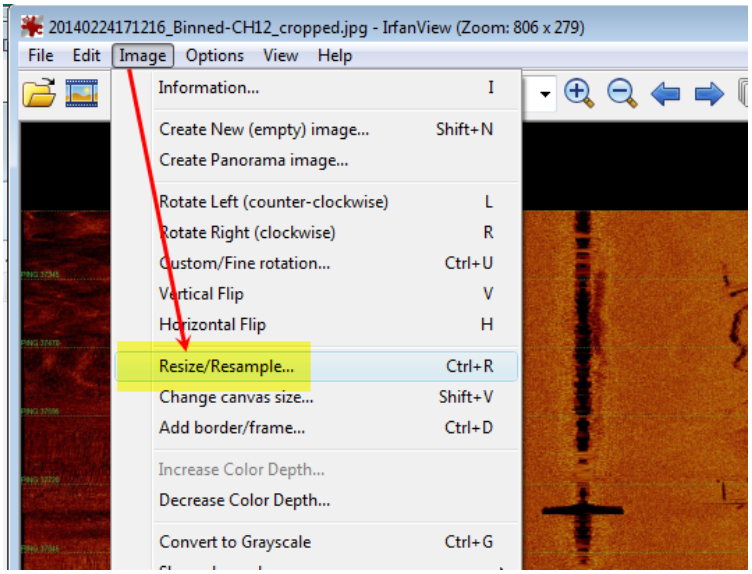


The INFORMATION -> Properties says this has, coincidentally, a 2.88 aspect ratio:

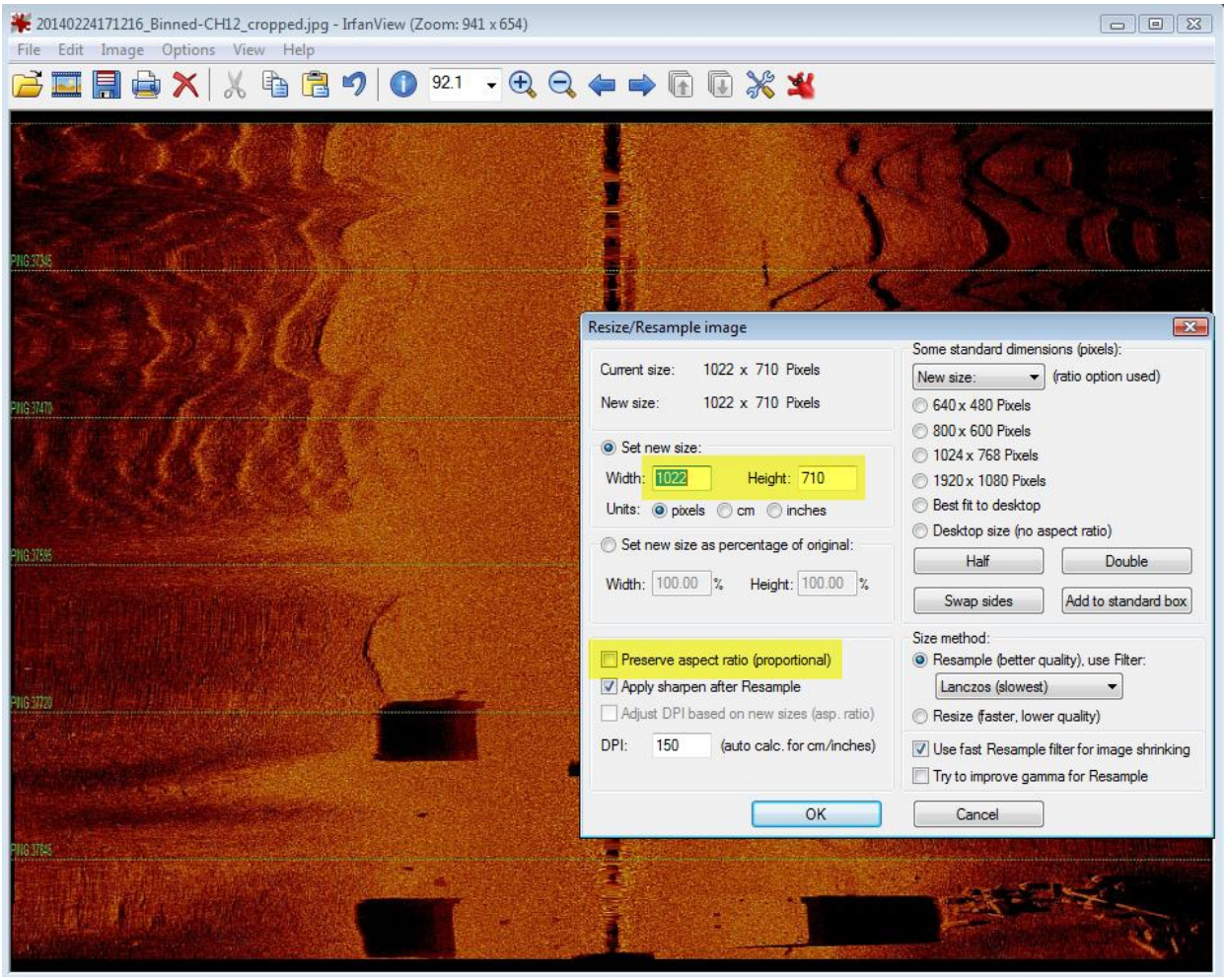


1.3.4 Resampling to Change Aspect Ratio Exactly

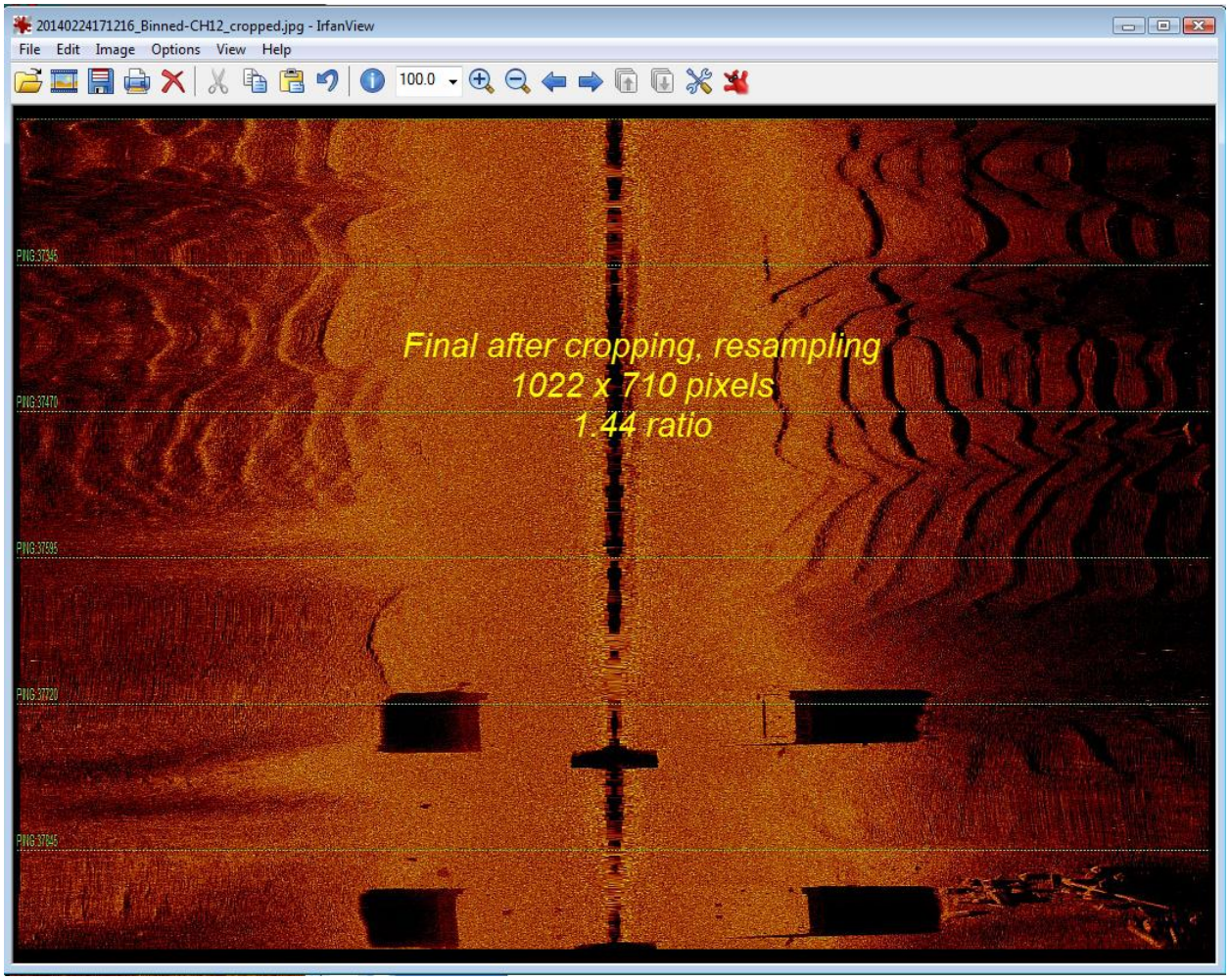
So all we need to do to get the exact same aspect ratio that we liked in DigitizerView (1.44) is to resample this to 1022 pixels wide:



We got the 1022 number by multiplying 710 x 1.44.



The resulting image looks just like it did in DigitizerView:



The advantage of making report images like this is its exacting control of the aspect ratio, and the easewith which you can visually crop a batch-image-export image of a full file, and keep only that portion you wish to see in the report.