Protocol for Herring AOI images

August 2017

Camera: Leica DFC320 and Stereomicroscope: Leica MZ6

1. **Settings for light box:**
   Images are taken under the circular reflective light.
   Top knap 3.0 Bottom knap 3.0

2. **Settings in LAS V4.5:**

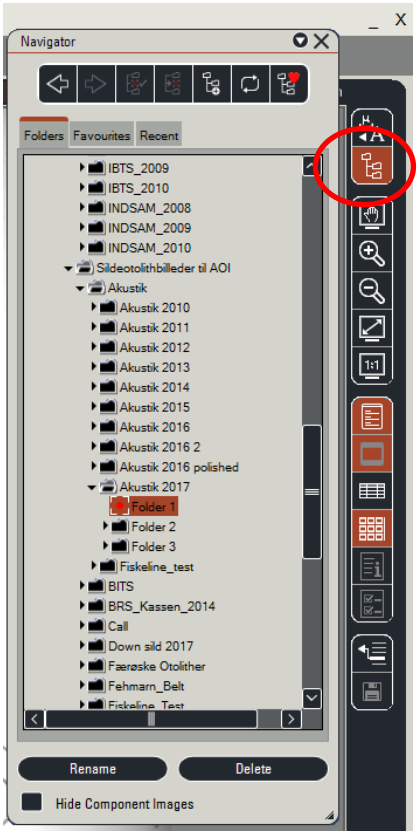
   Setup tab
   Microscope Configuration should NOT be changed!!!

   Acquire tab:
   MZ6 Be sure the microscope magnification is 2 and that the corresponding "ZoomDrive" is set at 2.

   Acquire tab:
   Camera
   Input options
   Current Configuration: "Sild_Circ_Aug 2017"
   The saved settings are:

Exposure Adjust		**Image Formats**	
Exposure	414.5	Captured format	2088 X1550 Full Frame HQ
Gain	1.0	Live format	2088 X 1550 Full Frame
Saturation	0.00	Image type	Colour
Gamma	0.80		

   Acquire tab:
   Camera
   Calibration settings
   Type: **Measured**
   Configuration: **Sild_Aug_2017**
   Actual length of line shown on image: **1**



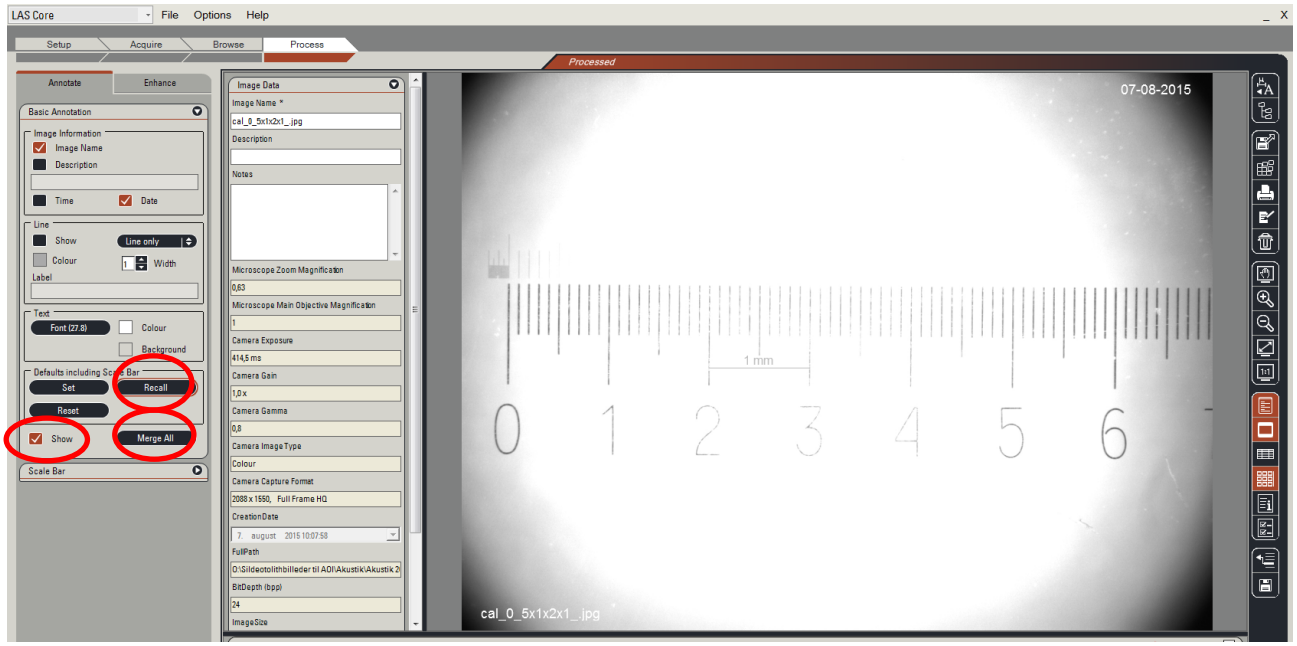
3. **Set Capture location:**
   Images should be saved here: O:\Sildeotolithbilleder til AOI
   Folders created by survey/collection type and then year
   Use Navigator to find the folder where images will be saved
   Press "Set Capture Location" icon

   Taking images

   1. **Calibration Image**
      A calibration image needs to be taken each time a set of images are taken and saved in the same folder. If you change survey/collection type you have to take a new calibration image.

   - Using the 5cm measuring stick focus the image until it is sharp and the marks appear clearly in the image viewer (see image below)
   - The calibration image is named using **"cal _0_5x1x2_0x1_date-month-year (using the format 12-07-17)"**

- To take image: press **“**Acquire Image “



- In the “Basic Annotation” box place a check mark in ”Show”
- Click “Recall” and then “Yes”
- Click “Merge All” and the “Replace”

2. Otolith images

- Images are taken of a pair of otoliths immersed in alcohol and on a black background. Be sure that the otoliths are not dirty (especially at the edges).
- It is VERY important that the following format is used for naming the images:

e.g. **J0225_00001_0_5x1x2_0x1_ (following the format Jnr No_Fish No_Magnification)**

<u>You are then ready to take a set of images from a sample</u>