

Summary of Image Collection for Midwater Classes

Midwater Class Creation – Initial Steps taken to this Point

- Processed dive 2613 with resulting processed mpeg movie and event images. Two types of event images were gathered -i) images which were square using the natural scenery ii) event images which were square with the background replaced using the mean color value of the entire frame.
- Watched original tape on monitor with Rob who annotated the poeobius events from dive 2613. Opened the processed mpeg video with the installed Quicktime movie player. Found corresponding event number in processed results by matching the time code on quicktime movie to the timecode of the original video containing annotated poeobius.
- Went through movie sequences of poeobius carefully after all annotations were made. Looked for all event numbers corresponding to the poeobius annotation. Initial notation of one event number for one annotation was made. Subsequently watched the mpeg movies frame by frame around a poeobius event to see when the poeobius was first discovered by AVED to the last detected frame. Noted each event number which corresponded to each poeobius.. Collected the set of poeobius training images by moving all the images of the events into a newly created subfolder with the name poeobius.
- Collected two sets of poeobius images. One set contained square images using the natural scene and the other square with background replaced. The two sets were in turn moved into separate subfolders bearing the names square and background. A test will be conducted to determine which offers the best results using the training set as a testing bed.
- While watching the video, Rob was unsure as to whether some of the events were poeobius or not. These events were too small or too hard to discern. However, as a collection of non-poeobius images needed to be gathered, it seemed prudent to separate them from the other images given that they might be poeobius. These event images were placed in a subdirectory of the poeobius folder under the subfolder questionables.
- Collected a set of non-poeobius images to test the poeobius set against. Watched the video to determine if the event might be a poeobius. If so, the event was not included. Otherwise, images of the event were looked at to see if the size of the image was large enough to be included in the set of other images. Currently the default size is 24x24 or larger. If the event contained such images, the image deemed the best from the set was selected and moved into a subfolder called other. The two sets of images, background removal and square, were placed in respective subfolders. **Note:** If another midwater class is to be built ie. a chaetognath class, the dive 2613 video that was used to create the class of other will have to be annotated for this new class of animal and images which represents this organism removed from the other training class.