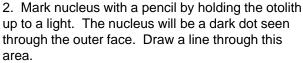
Striped Bass Otolith Cutting and Reading Protocol





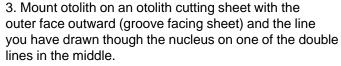
1. Determine which otolith is the right otolith by looking at the succal groove on the inner face. The tail of the groove of will curl to the left when the head is anterior (and to the right on the left otolith).

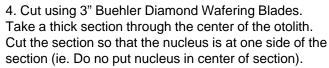


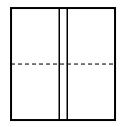


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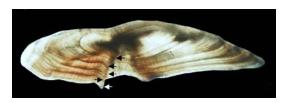






Example of an otolith cutting sheet, with correct orientation. Place otolith on sheet so that the line you drew through the nucleus on one of the two center lines.

Mount this section (nucleus side down) on a microscope slide using a thin layer of crystal bond. Wet sand the section using 400 to 1200 grit sand paper to an appropriate thickness so that the annuli can be easily read. Once the section is sanded, it can then be covered with a layer of crystal bond. A good section will have a crisp triangle as seen in pictures below.



Age 5 otolith (above)

5. Otoliths are read by counting each annulus, or dark ring. Otoliths can often be hard to read, as the fish will lay down false marks. Be sure to make sure the annulus goes all the way around the otolith. Striped Bass spawn in the spring from March to June. Most Striped Bass annuli deposition will occur in April in the Mid-Atlantic.

6. All otoliths should be read by 3 independent readers. The mode of the 3 reader is evaluated by a senior reader to establish the final age assignment.

