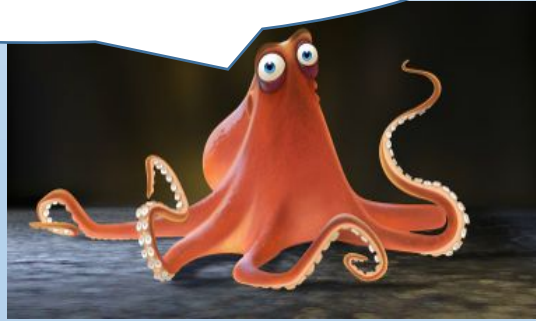


How old AM I?!



MSc Erica Donlon
Supervisor: Miles Lamare



Did you know that octopus starve themselves in order to protect their eggs until they hatch?



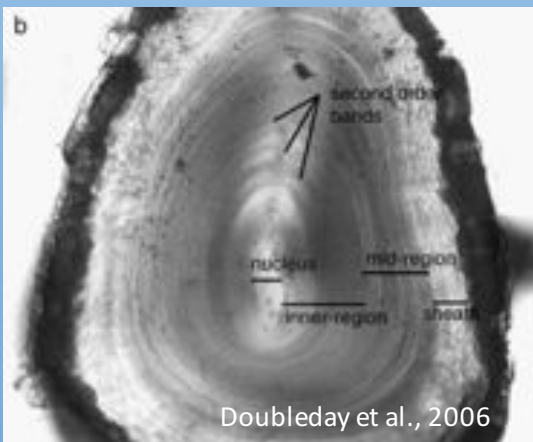
Midget Octopus- *Octopus huttoni*

- Proxy for growth for larger species
- *Macroctopus maorum*
- Highly understudied
- Maximum 10cm
- Dreg bycatch (ex: scallop fisheries)

What is the best way to age octopus?

Aging Methods

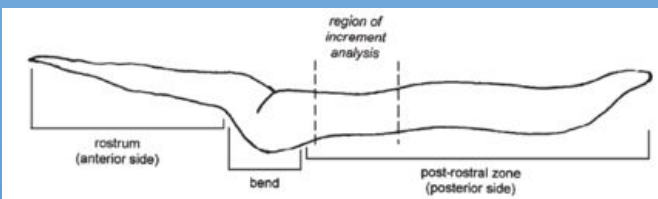
- Stylet
 - Cross section and look at growth rings
- Beak Lipofuscin
 - Dissect optic lobes
 - Estimate lipofuscin volume ratio



Validating Daily Growth Rings

Mark with tetracycline twice per individual with an period of 30 days between.

Cross section of stylet with growth rings



Stylet (Doubleday et al., 2006)

Thermal Rearing

- Rear paralarvae in five different temperatures to observe growth rates
- 6, 10, 14, 18, 22 °C

