Lab Notebook

Crow White

Invert. Zoo.

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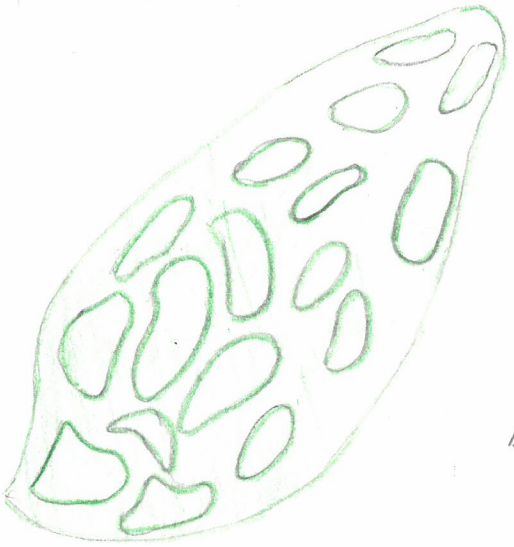
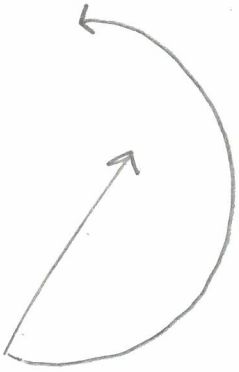
20-30 drawings
1 at least of each phylum and important classes

Good job!
29/30
Nice to have you in class.
/B

Fragment of Crustacea

Flagellate
X2,500



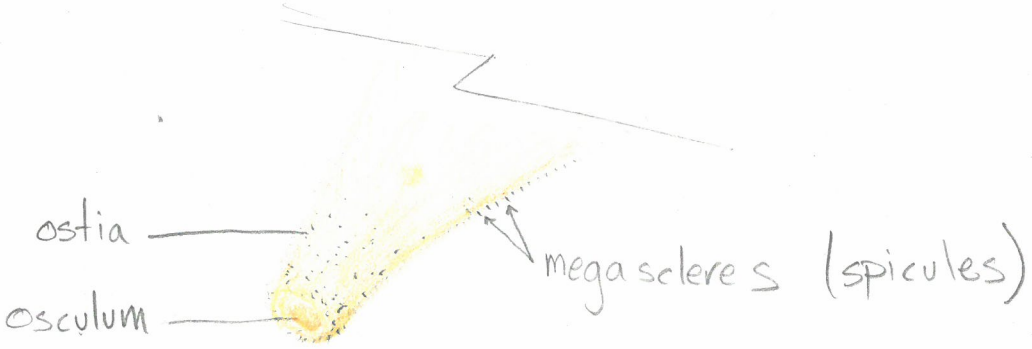


locomotion

good

Halichondria

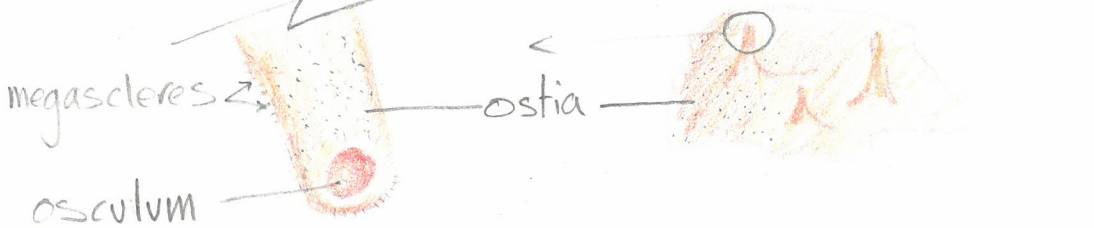
x30



Haliclona

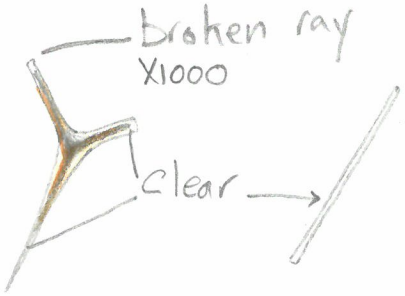
x30

actual size

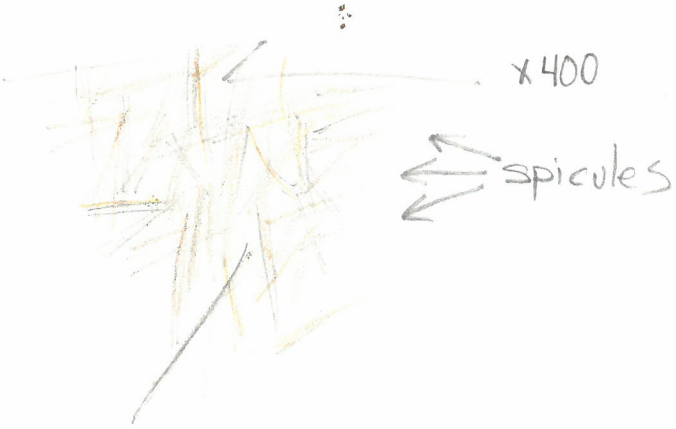


Leucosolenia

spicules:



fragment:

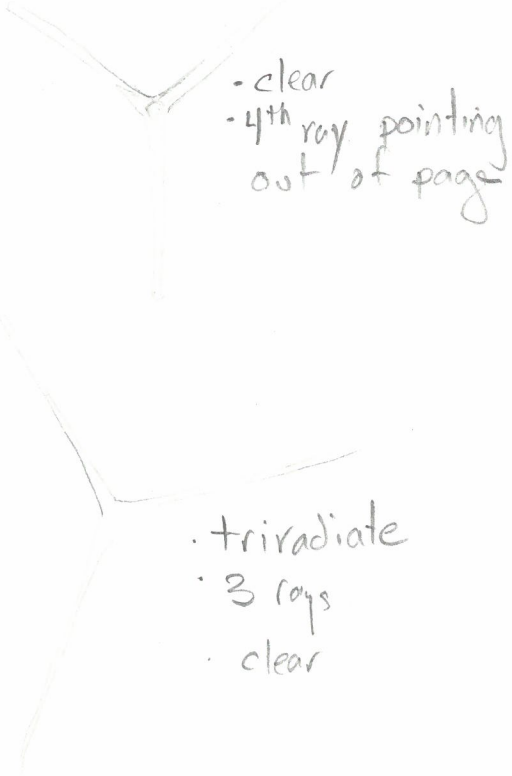


Leucosolenia

after exposed to bleach for 20 min. ✓

tetraxon (4 rays): a calthrop

1. Skeleton present
2. Siliceous spicules



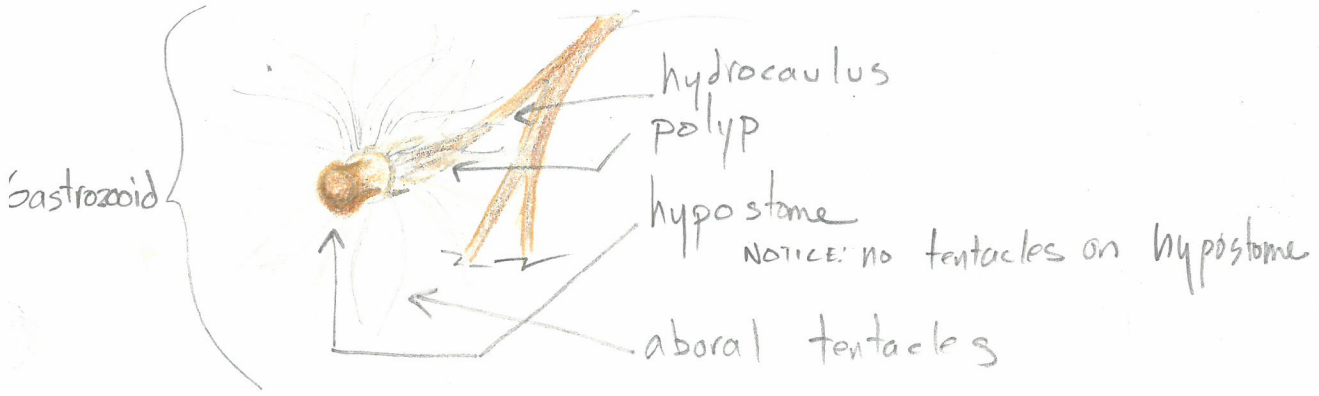
Haliclona larva

X250

notes?

Phylum Cnidaria

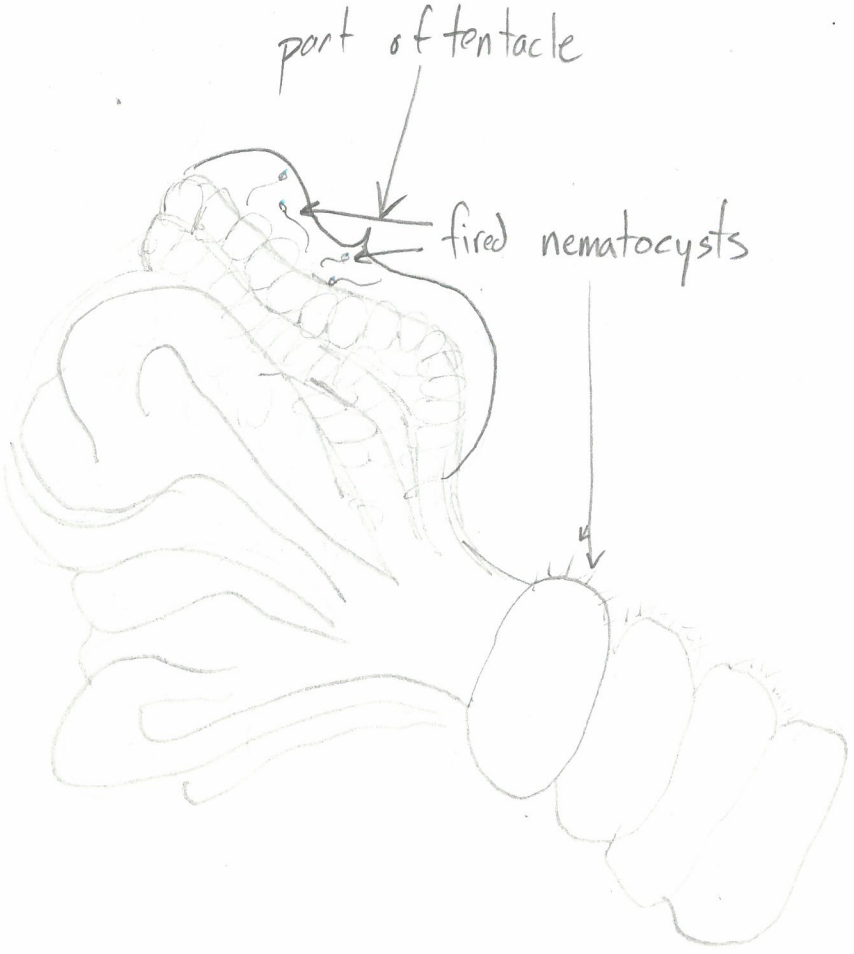
Obelia X67



Gastrozooid with tentacles contracted

Medusae

Obelia tentacles X250



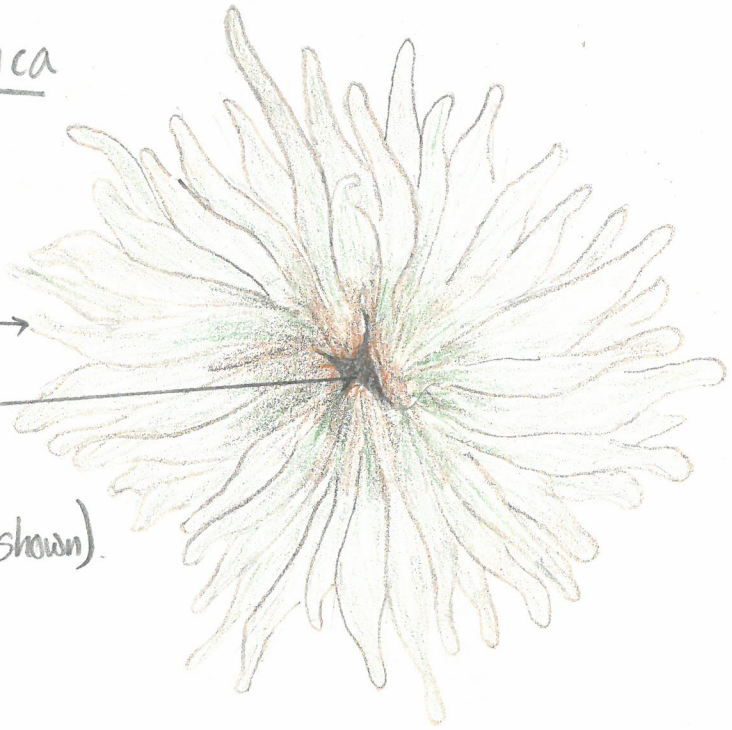
Anemones

Anthropleura Xanthrogrammica

oral view:

tentacle (capitate) →

pharynx →

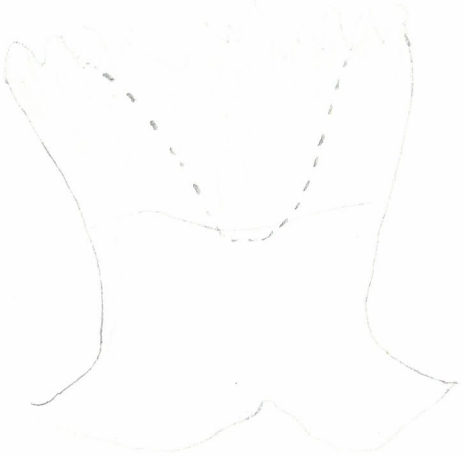


1 cm

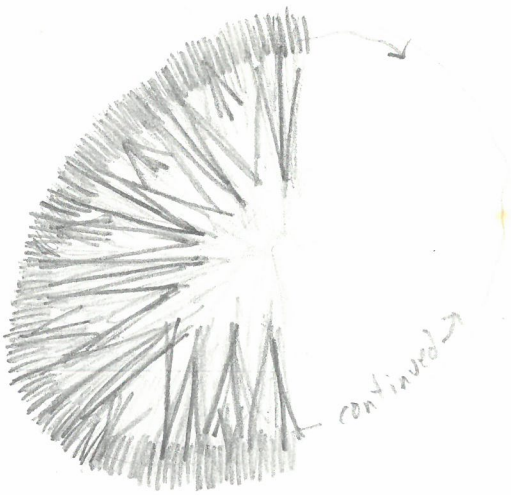
tentacles open when relaxed (as shown).
contract when disturbed

Balanophyllia elegans: solitary non-hermatypic coral skeleton only

side view:



oral (top) view:

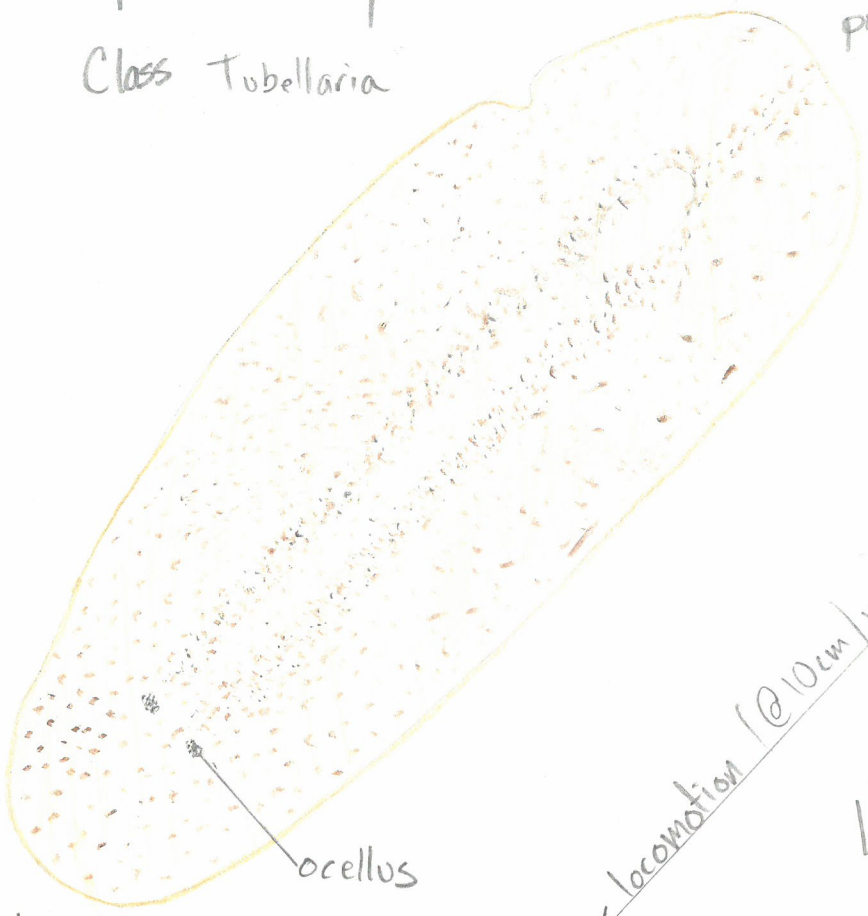


Phylum Platyhelminthes

Class Tubellaria

posterior

Notoplana



anterior

locomotion (@10cm/min, on flat surface in water)

length: approx. 2cm

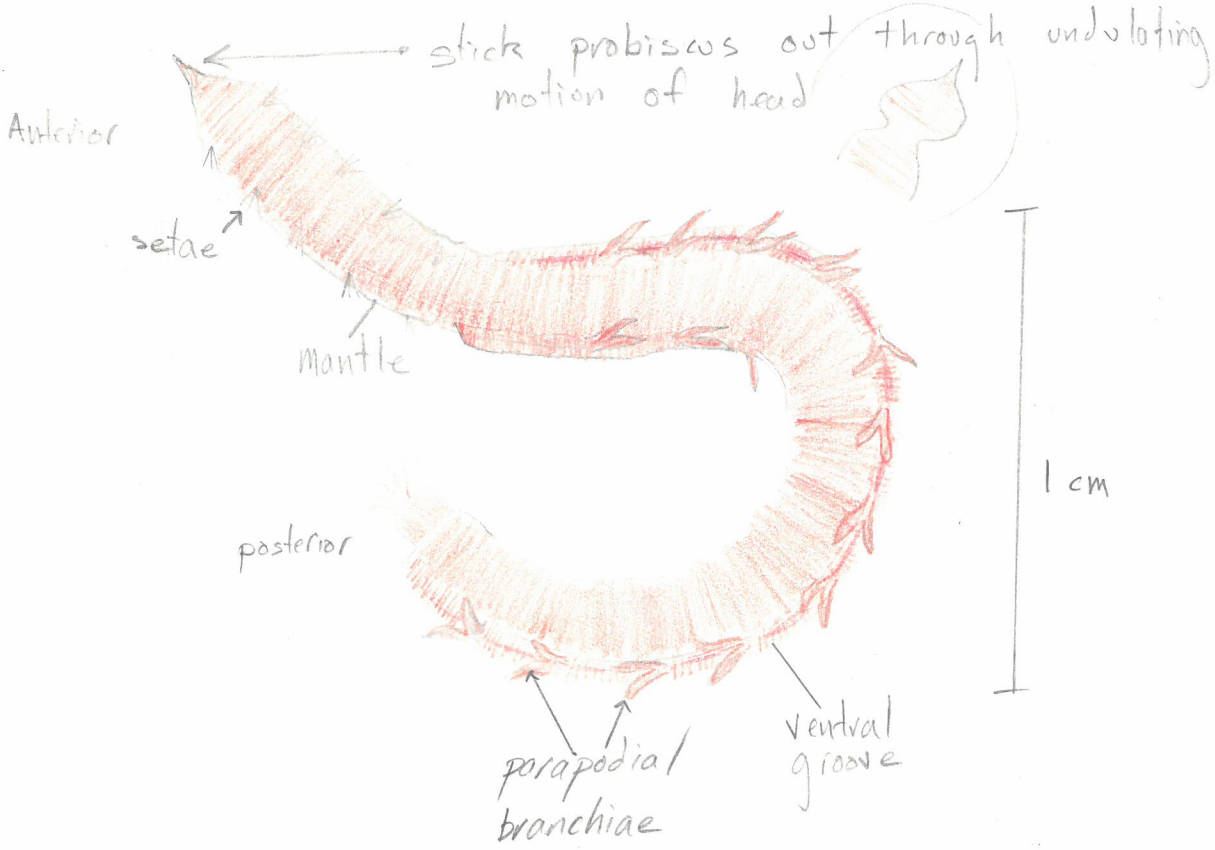
Phylum Nemertea

Tubulaneous polymorpheus

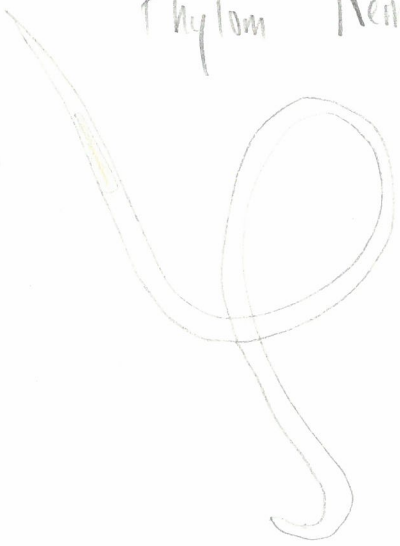
Phylum Annelida

Class Polychaeta

Eunonus mucronatus : blood worm



Phylum Nematoda



Parasitic Nematode (found in fish)

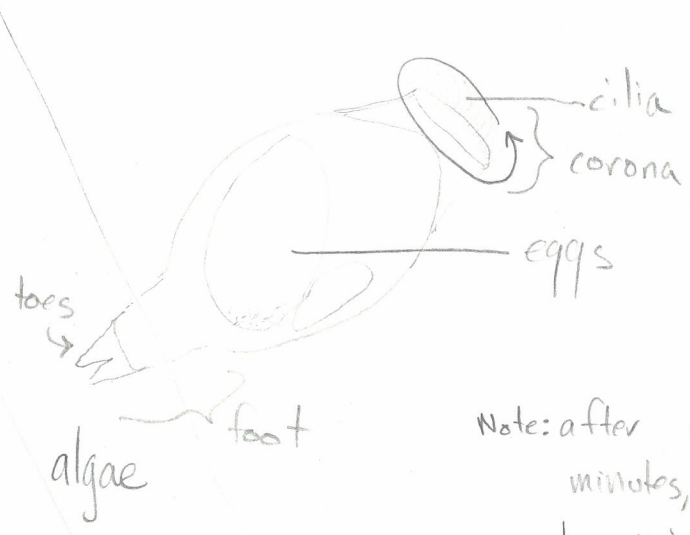
total length: @ 2.5 cm.

behavior: continually coils and uncoils

Phylum Rotifera

freshwater and algae sample

X400



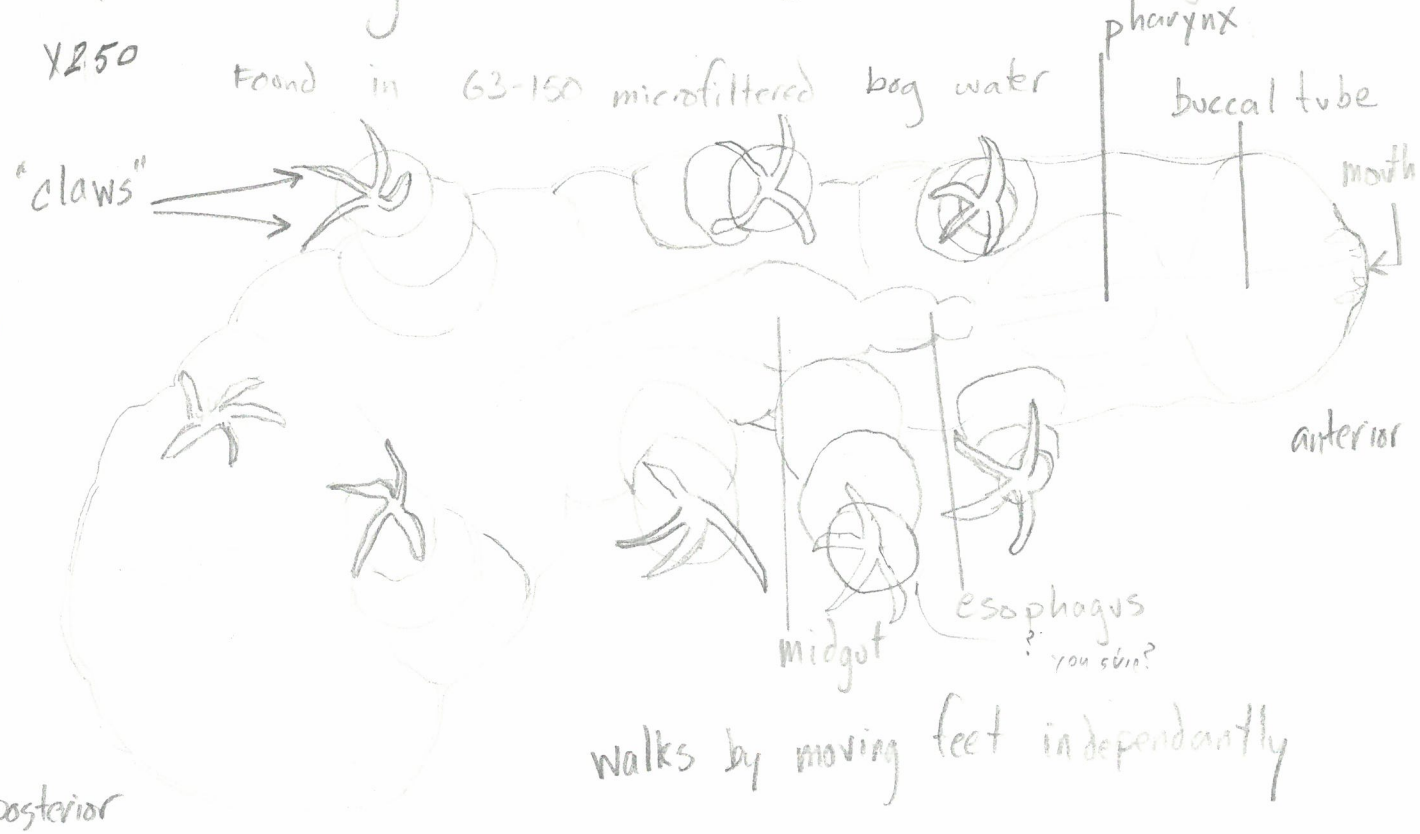
Note: after using corona for several minutes, rotifer detached and travelled via loping.

Phylum Tardigrada: water bears

Class Eutardigrada

X250

Found in 63-150 microfiltered bog water



walks by moving feet independantly

Ventral view

Phylum Ctenophora

X 30

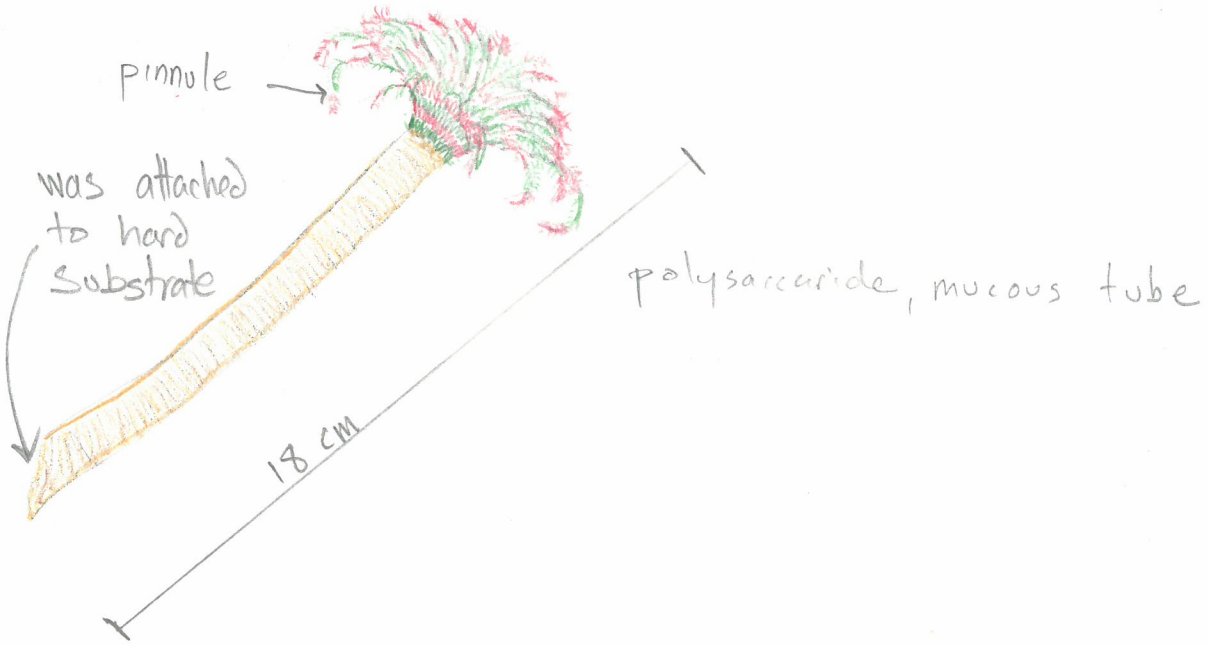
Ctenophora larva: medusa

Pleurobrachia

Phylum Annelida polycheate worm

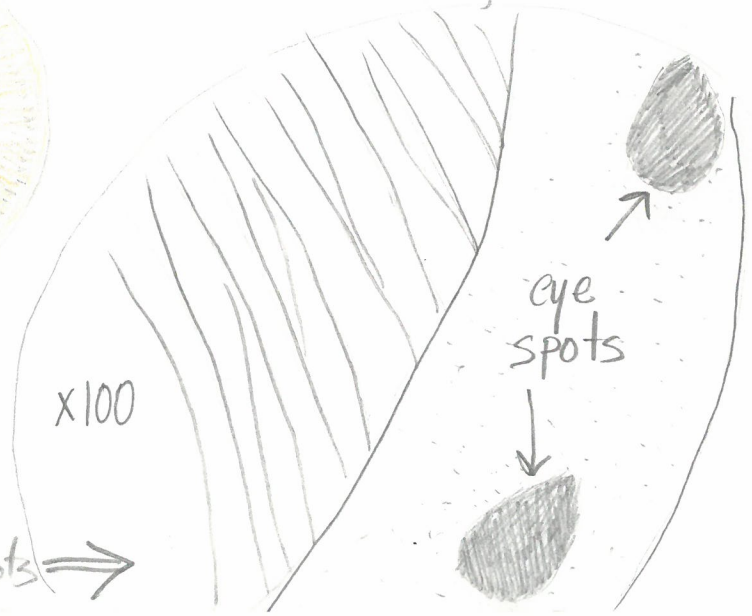
Eudystilia vancouveri

1. Intact



2. After I removed it from its tube. Worm will secrete a new tube.

- secreting greenish-brown mucous (could be bleeding from wound)

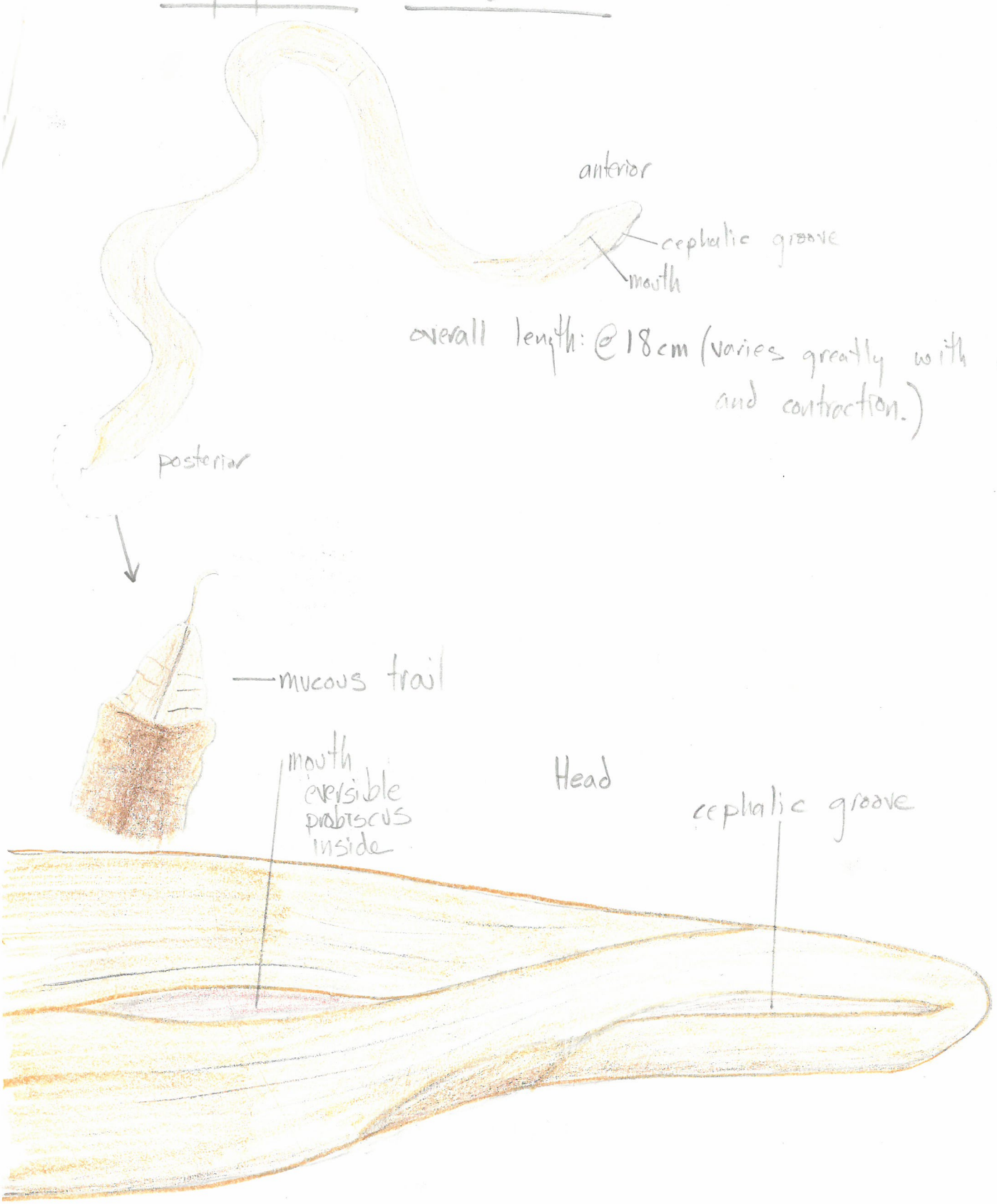


Magnified pinnule showing eye-spots ⟹

Phylum Nemertea

Good

Amphiporus bimaculatus



overall length: @18cm (varies greatly with elongation and contraction.)

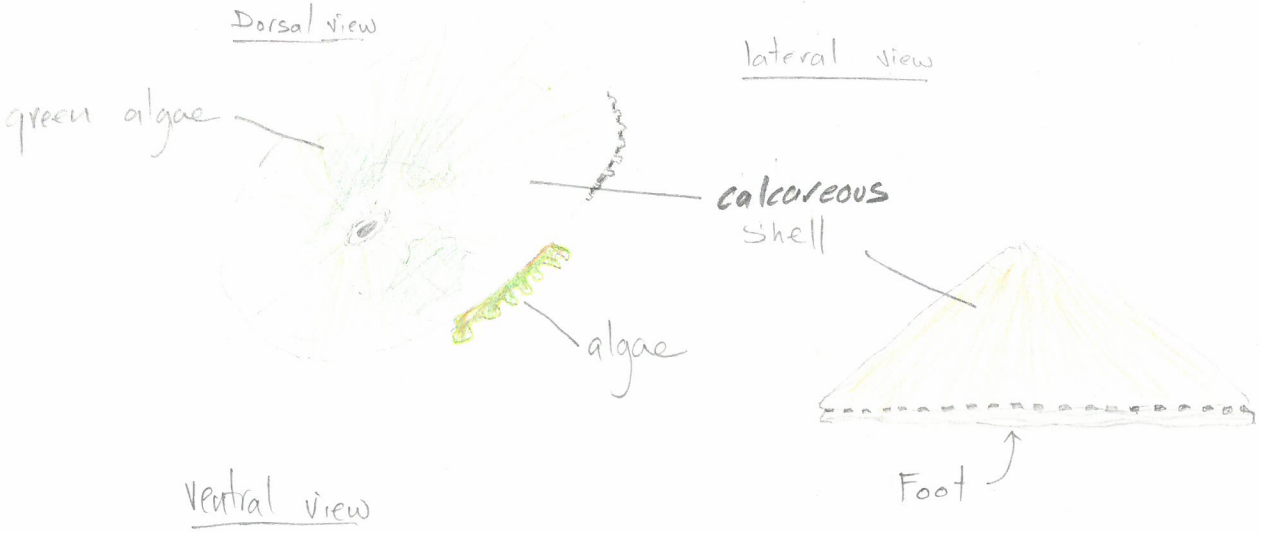
Phylum Annelida

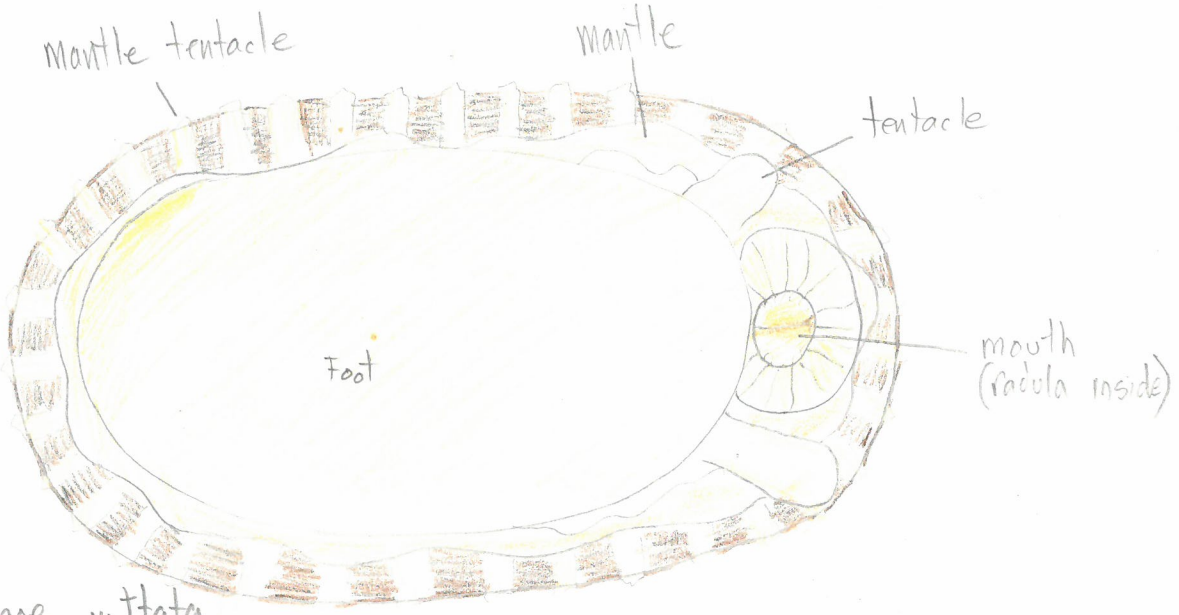
cross section good

Nereis brandti

magnified parapodia

key-hole limpet (actual size) from South Cove, Cape Arago
Diodora aspera



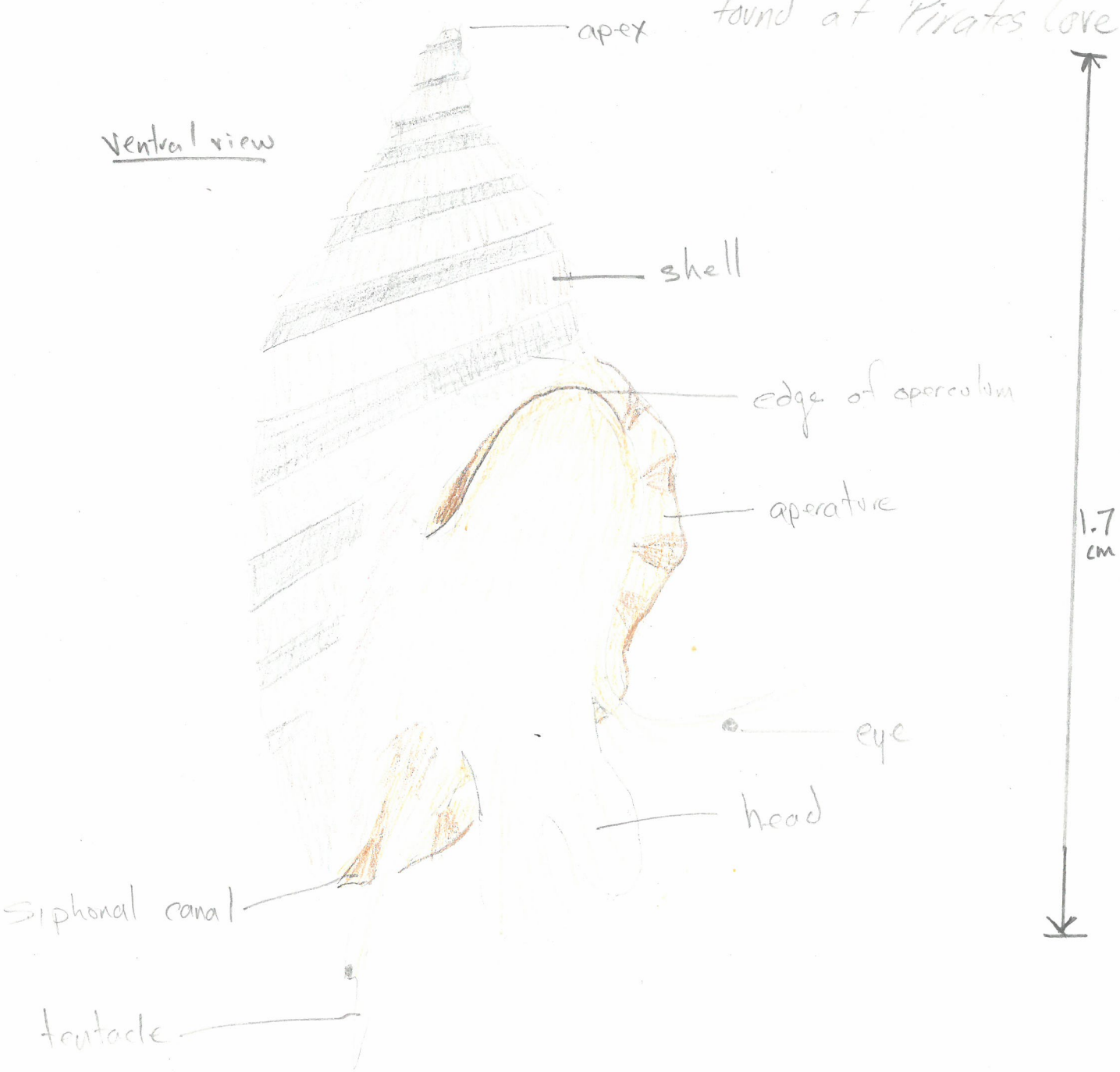


Arctonoe vittata
Comensal scaleworm found in mantle cavity.

Phylum Mollusca Class Gastropoda

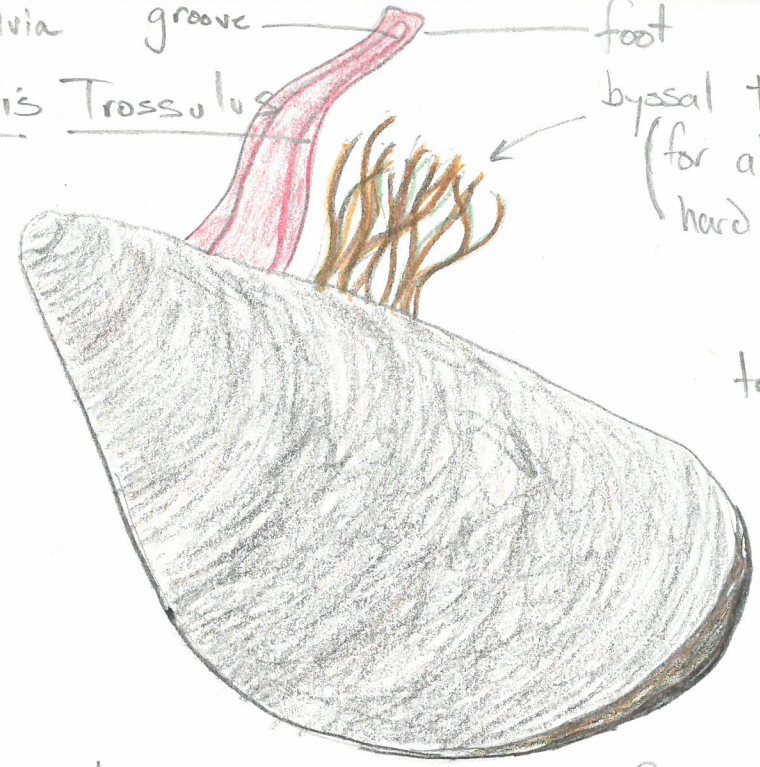
Nucella lamellosa predatory snail found at Pirates Cove

Ventral view



Class Bivalvia

Mytilis Trossulus



total length: 1.4 cm

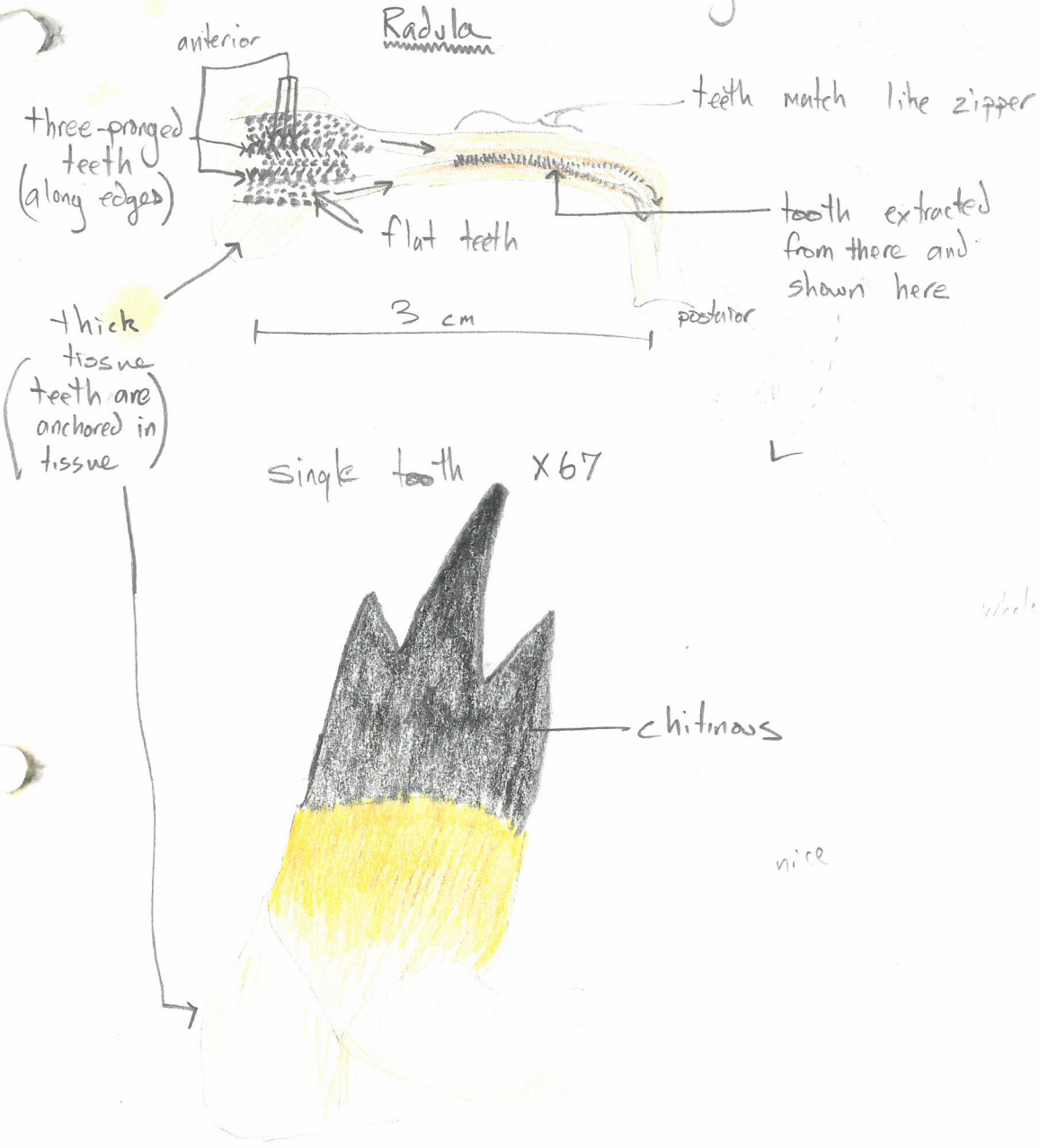
locomotion: mussel extends its foot, which then sticks at its end to hard substrate*. Mussel then retracts foot, pulling itself along surface. Entire organism moves about $\frac{1}{2}$ cm with each process.

* Gland in groove at end of foot forms byssal threads, which in turn is then attached to a surface. This is the "anchor" formed that allows the mussel to pull its own weight.

Class Polyplacophora

Cryptochiton Stelleri gumboot chiton

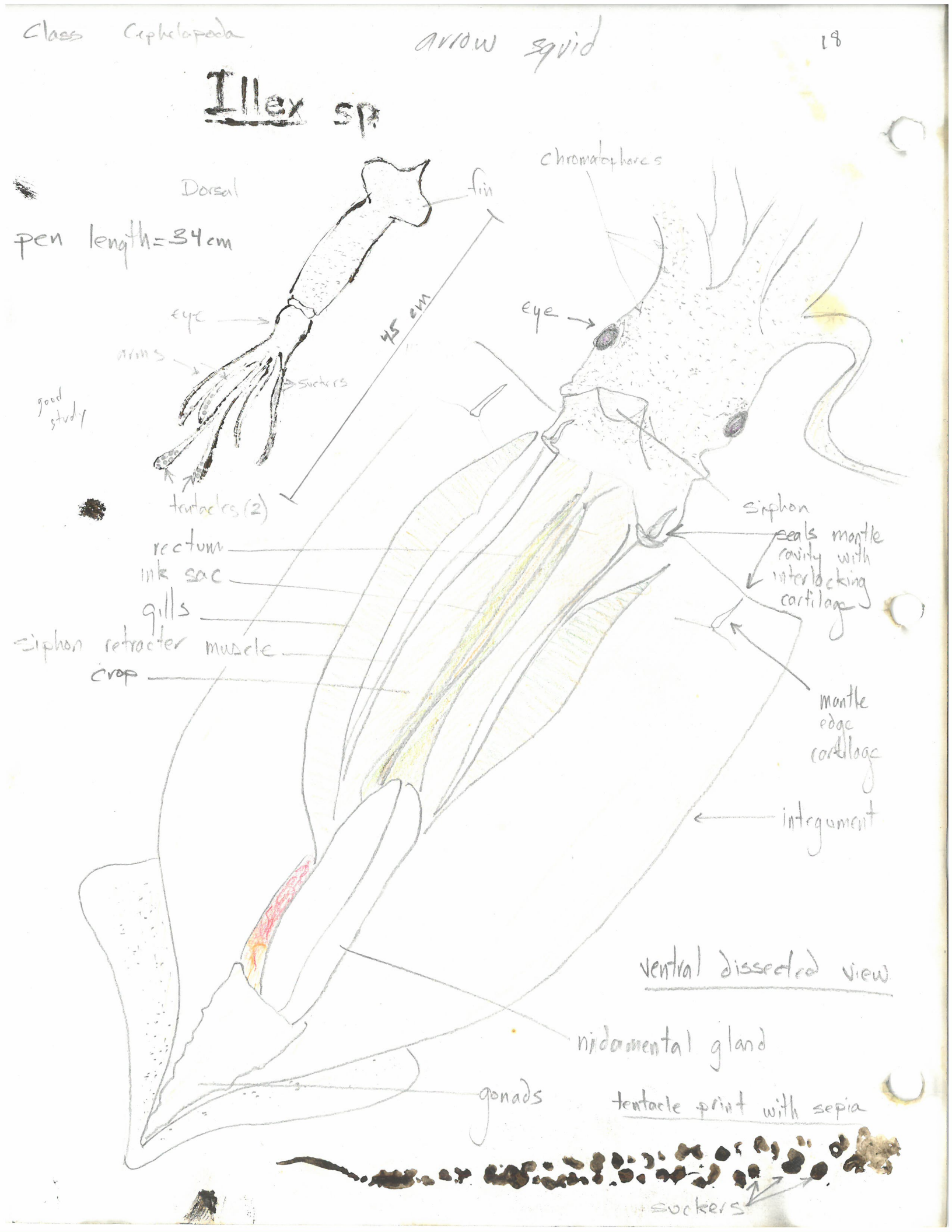
Radula



whole animal?

nice

Illex sp.


Dorsal
fin
pen length=34cm
chromatophores
eye
arms
suckers
45 cm
good study
eye
tentacles (2)
siphon
seals mantle cavity with interlocking cartilage
rectum
ink sac
gills
siphon retracter muscle
crop
mantle edge cartilage
integument
ventral dissected view
nidamental gland
gonads
tentacle print with sepia
suckers

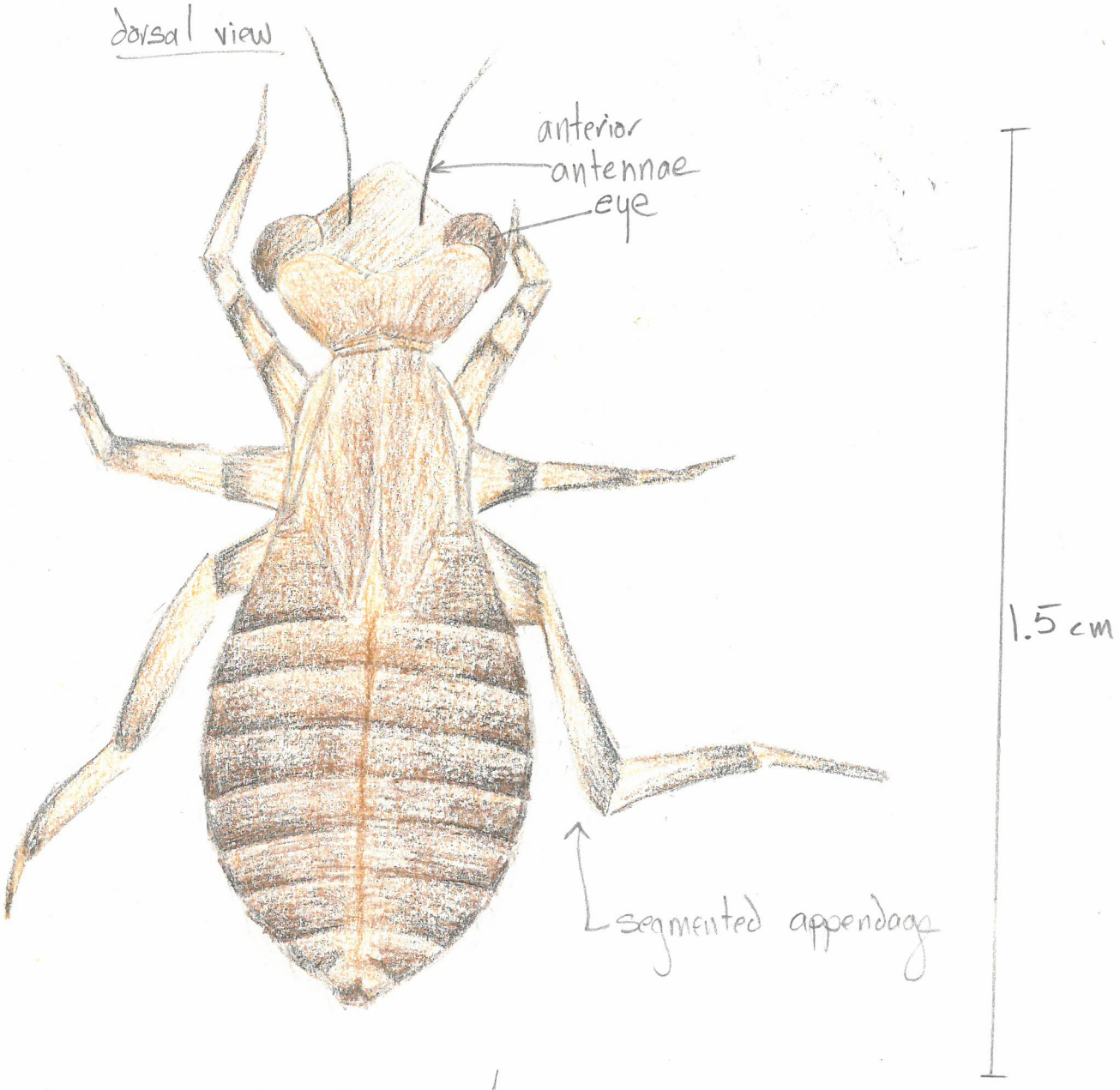
Phylum Arthropoda

Order Odonata

Dragonfly Nymph

collected from Empire Lakes (freshwater)

dorsal view



good

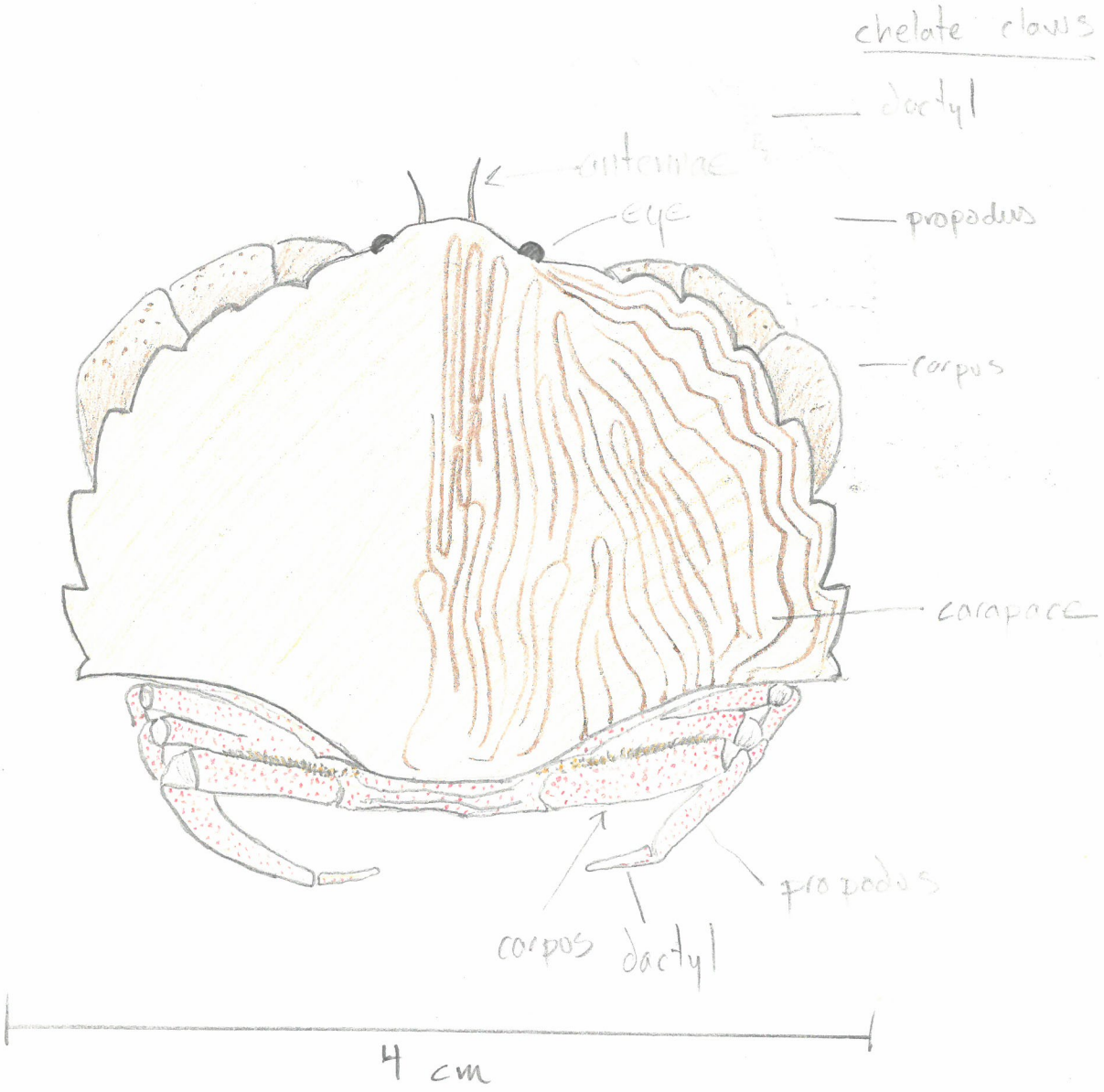
Phylum Arthropoda

Sand wasps

Digging borrow: kicks sand out much like a dog
Takes @ 13 min to dig borrow.

- Quick flier with frequent short landing stops

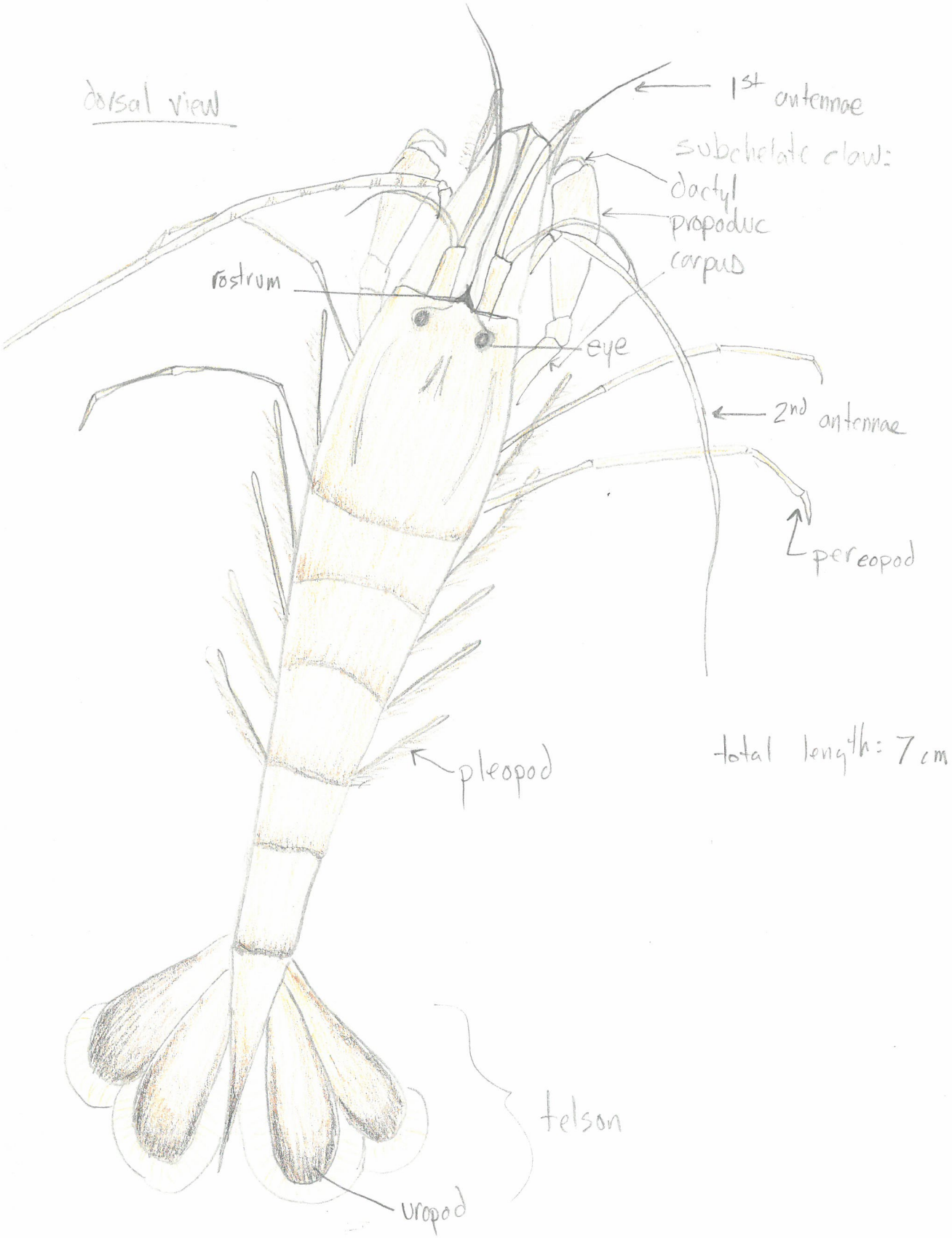
Cancer productus



Phylum Arthropoda
Subphylum Crustacea
Class Malacostraca
Order Decapoda

Crangon nigricauda sand shrimp

dorsal view



total length: 7 cm

Coos Bay fouling plate

Name (common)	Abundance
Tubularia crocea (hydroid)	abundant
Membranipora (bryzoan colonies)	dominant
Balanus glandula (barnacle)	subdominant
Corophium (tube-dwelling amphipod)	dominant
Coryphella cooperi (nudibranch)	uncommon
Mytilus trossulus (mussel)	uncommon
Caprella (amphipod)	common

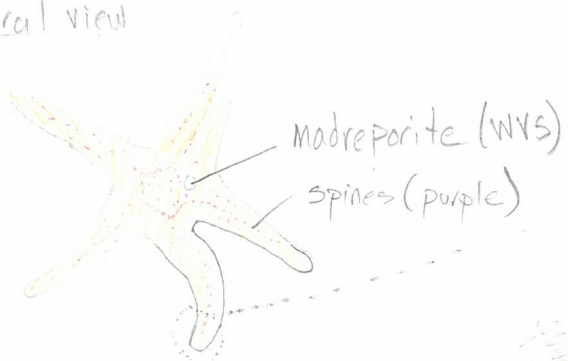
Phylum Echinodermata

Class Asteroidea

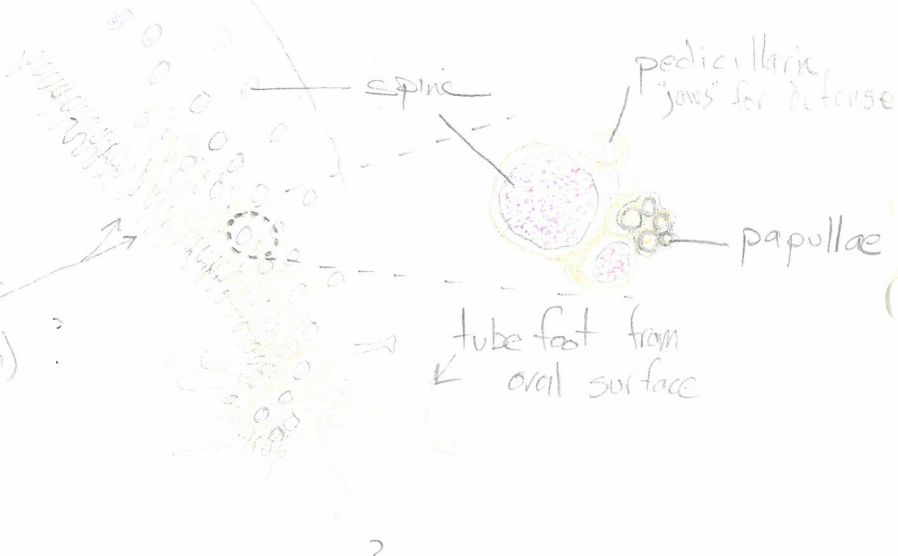
Pisaster ochraceus

actual size of juvenile

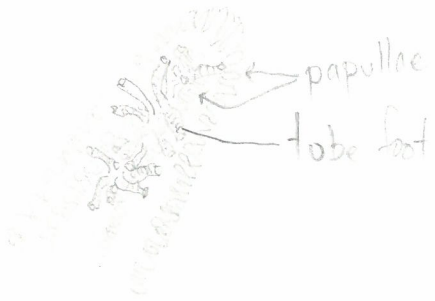
aboral view



aboral view of arm



oral view of arm

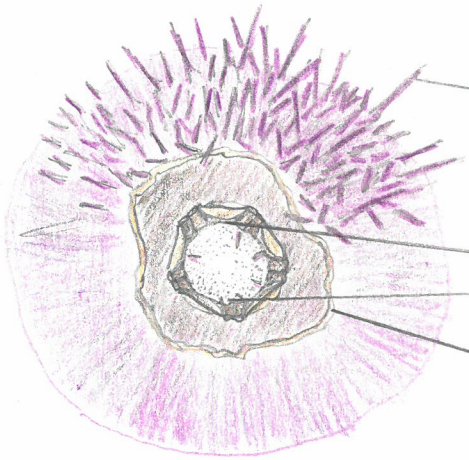


Class Echinoidea

Strongylocentrotus purpuratus

Removed pentamerous set of jaws (a.k.a. Aristotle's lantern)

Aboral view of dissection

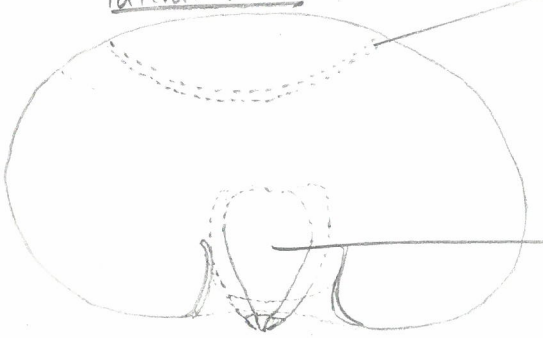


spine

site of removed lantern (can see through urchin out mouth)

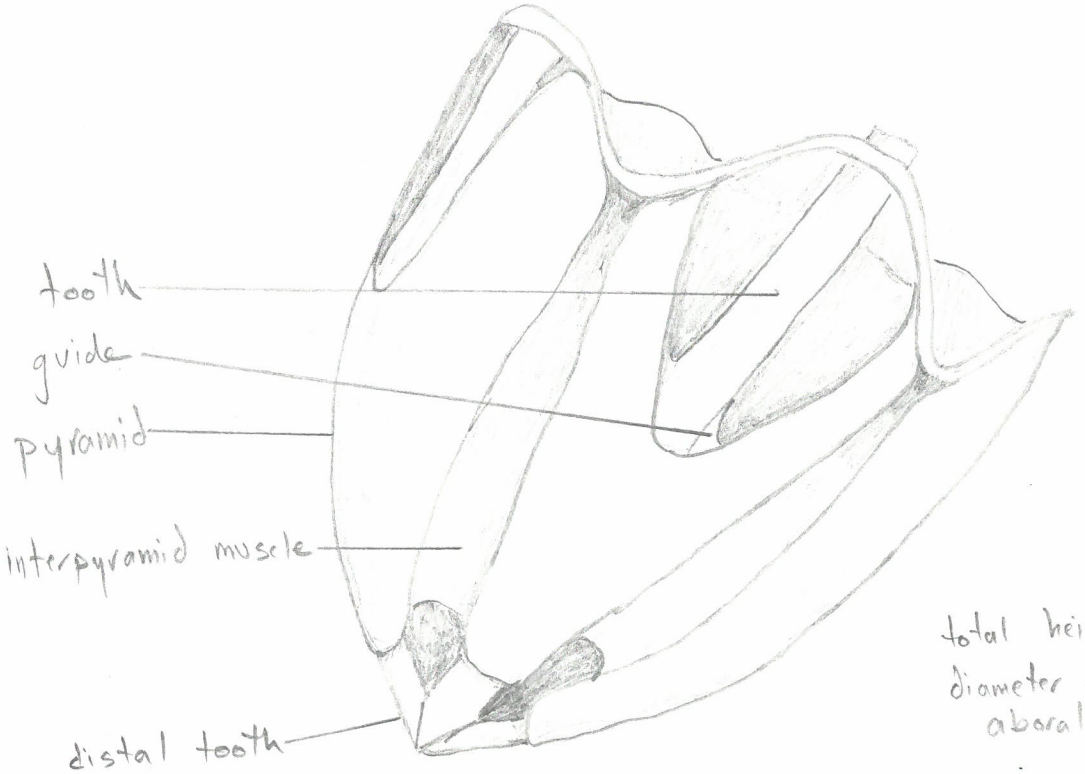
cut through test with scissors

lateral view



good

Aristotle's lantern



tooth

guide

pyramid

interpyramid muscle

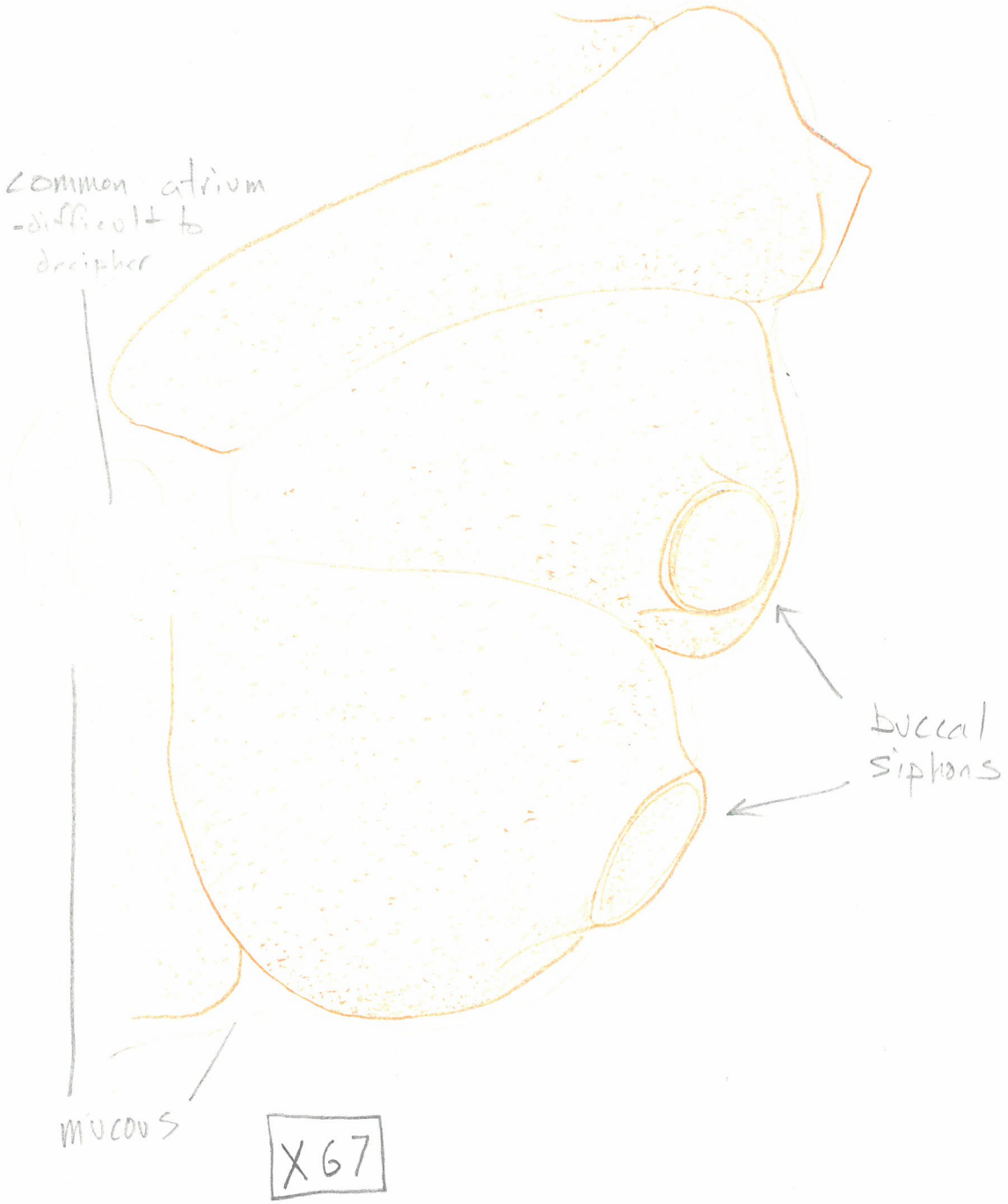
distal tooth

total height = 1.5 cm

diameter of aboral surface = 1.4 cm

Phylum Chordata

Botrylloides



X67

Phylum Chordata

Subphylum Vertebrate

Homo sapiens

(in their natural habitat)