

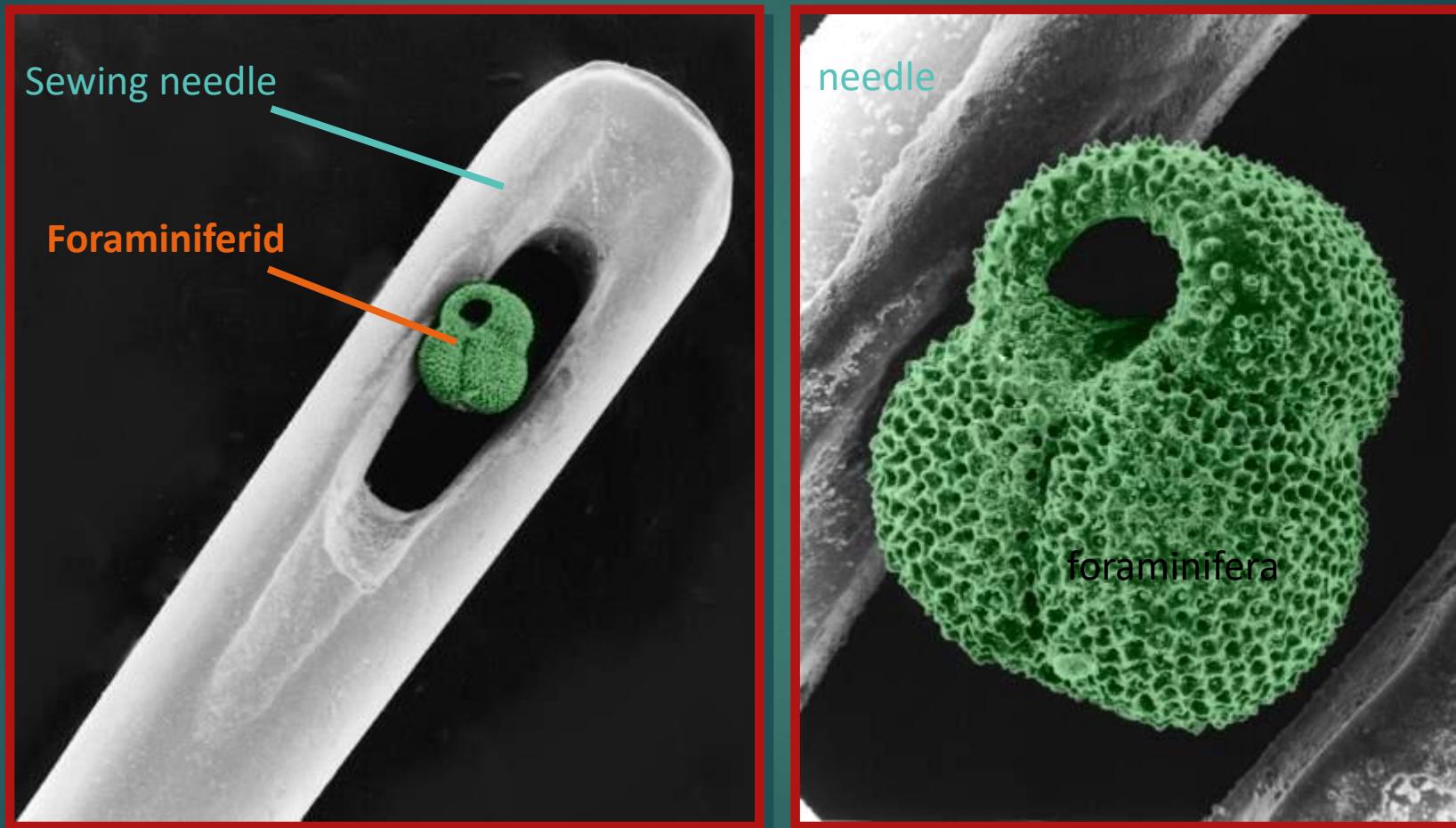
Out of sight.... But not out of mind – marine shelled protozans and microcrustacea

David Jutson

MICROPALAEONTOLOGIST – FORAMINIFERA, OSTRACOD AND
CALCAREOUS NANNOPLANKTON SPECIALIST

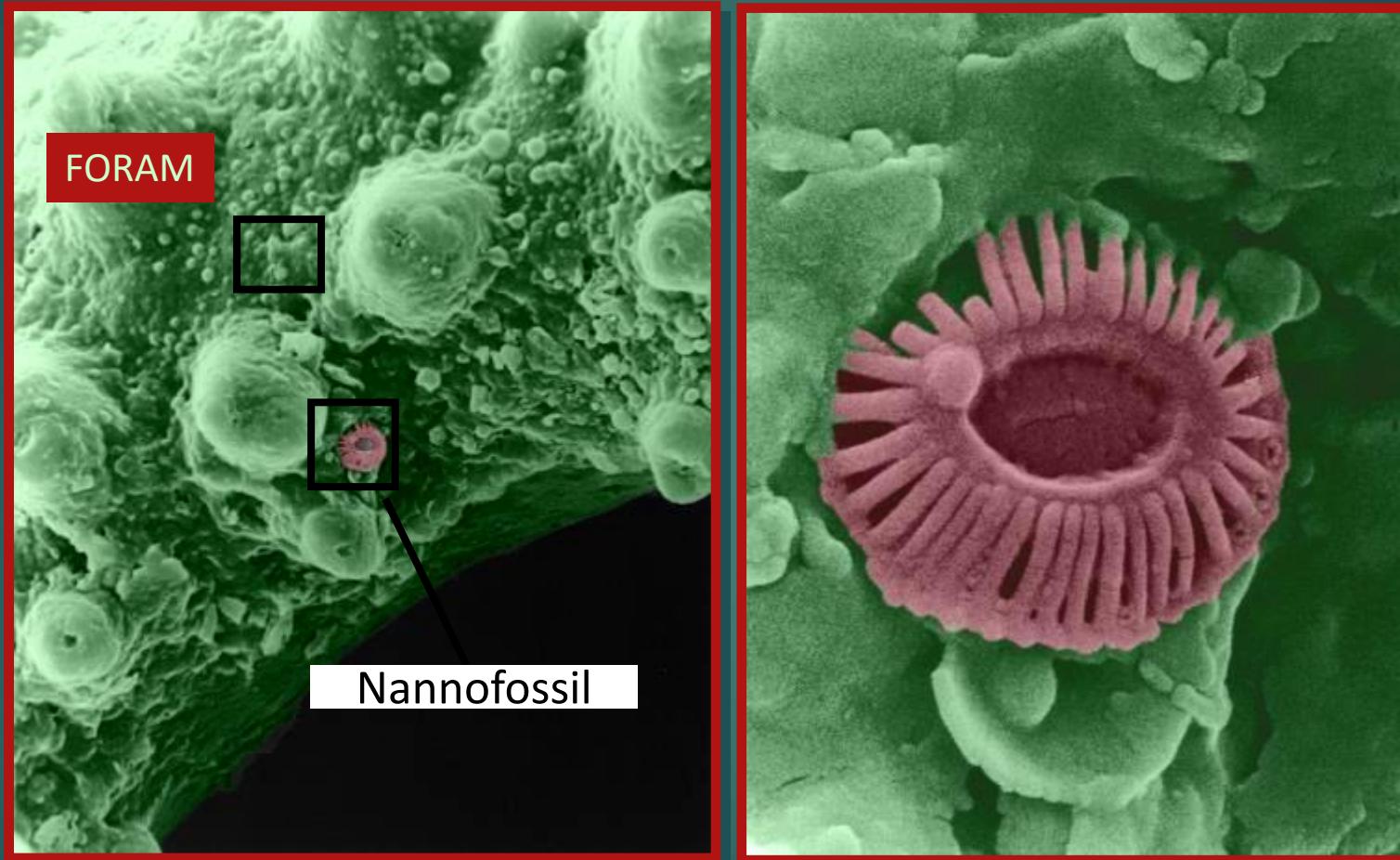


Foraminifera and Nannofossils – Size matters!



Foraminifera and Nannofossils – Size matters!

nannofossil *Emiliania huxleyi*



1 micron

Nannoplankton – Living CoccospHERE

(*Emiliania huxleyi*)



Foraminifera (a.k.a. Forams) – three main groups

- ▶ Calcareous Benthic Forams
 - ▶ secretes a hyaline or porcellanous calcite shell or “test”
 - ▶ 0.1mm – 1.0mm, sometimes up to several cm
- ▶ Agglutinated Benthic Forams
 - ▶ forms shell or “test” by accretion of clastic particles to an otherwise naked organic wall
 - ▶ 0.1mm – 2/3mm
- ▶ Planktic Forams
 - ▶ secretes a hyaline calcite shell or “test”
 - ▶ 0.1mm – 0.7mm

Calcareous Benthic Foraminifera



Calcareous benthic foraminifera from the north-eastern Indian Ocean.

The white scale bar at the base of each figure equals 100 μm

Agglutinated Benthic Foraminifera

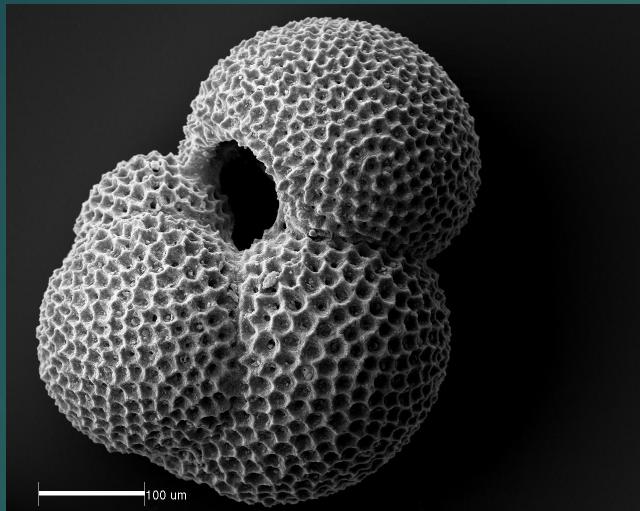
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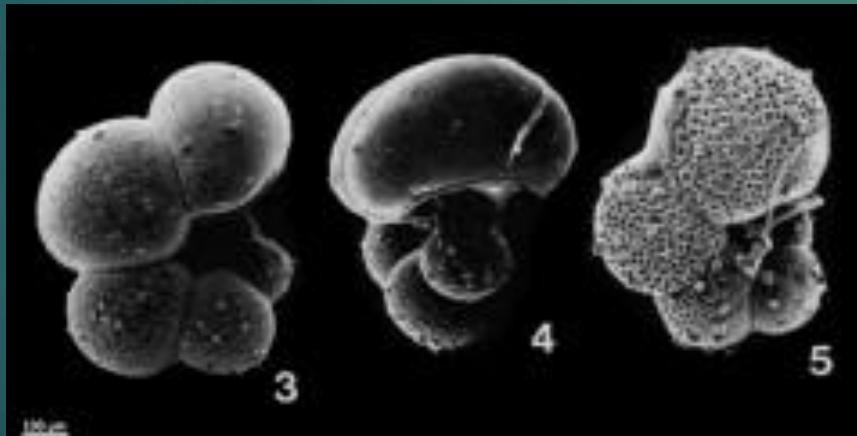
Agglutinated benthic foraminifera from the north-eastern Indian Ocean.
The white scale bar at the base of each figure equals 100 μm

Living (and fossil) Planktic Foraminifera

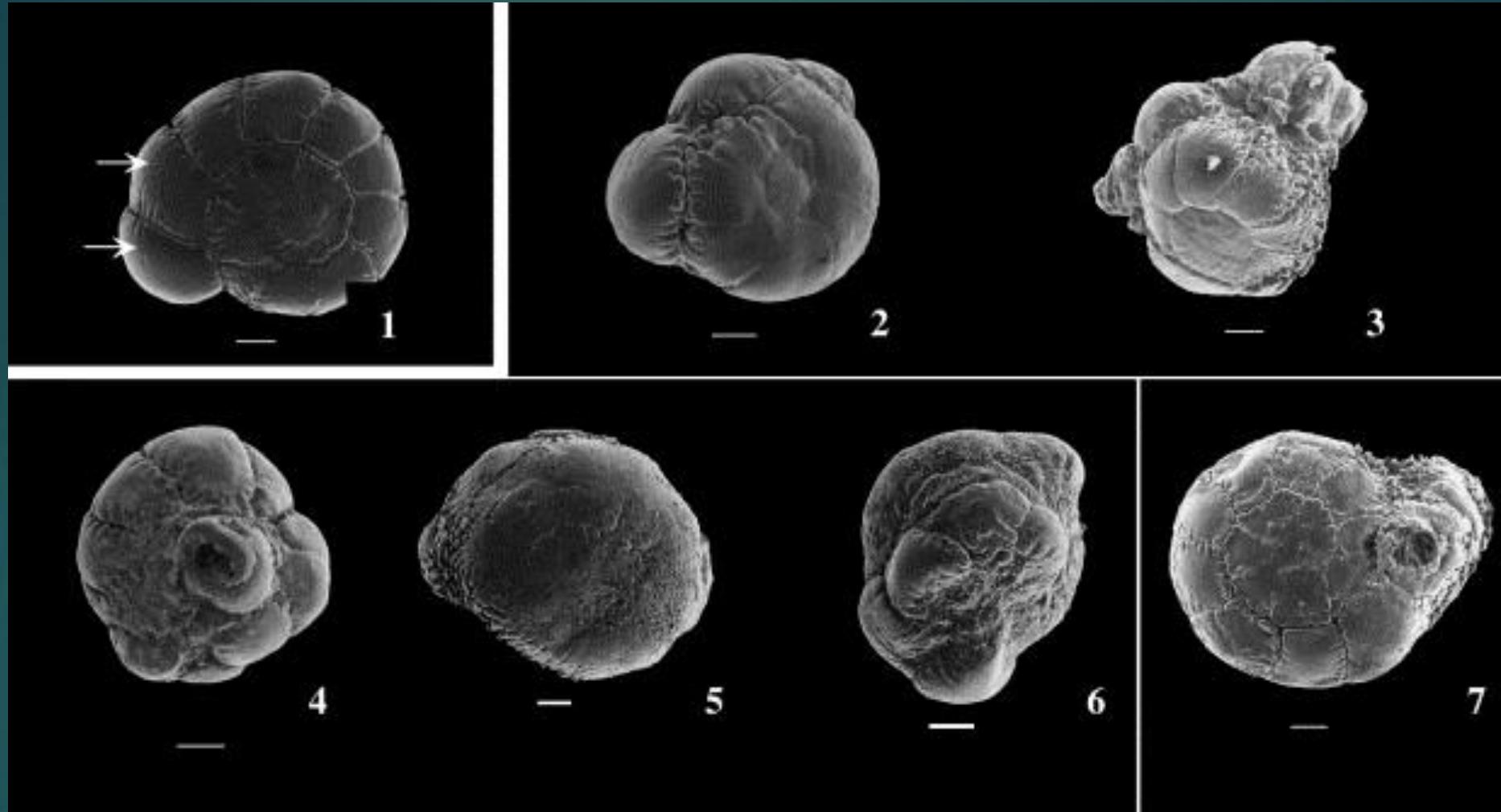
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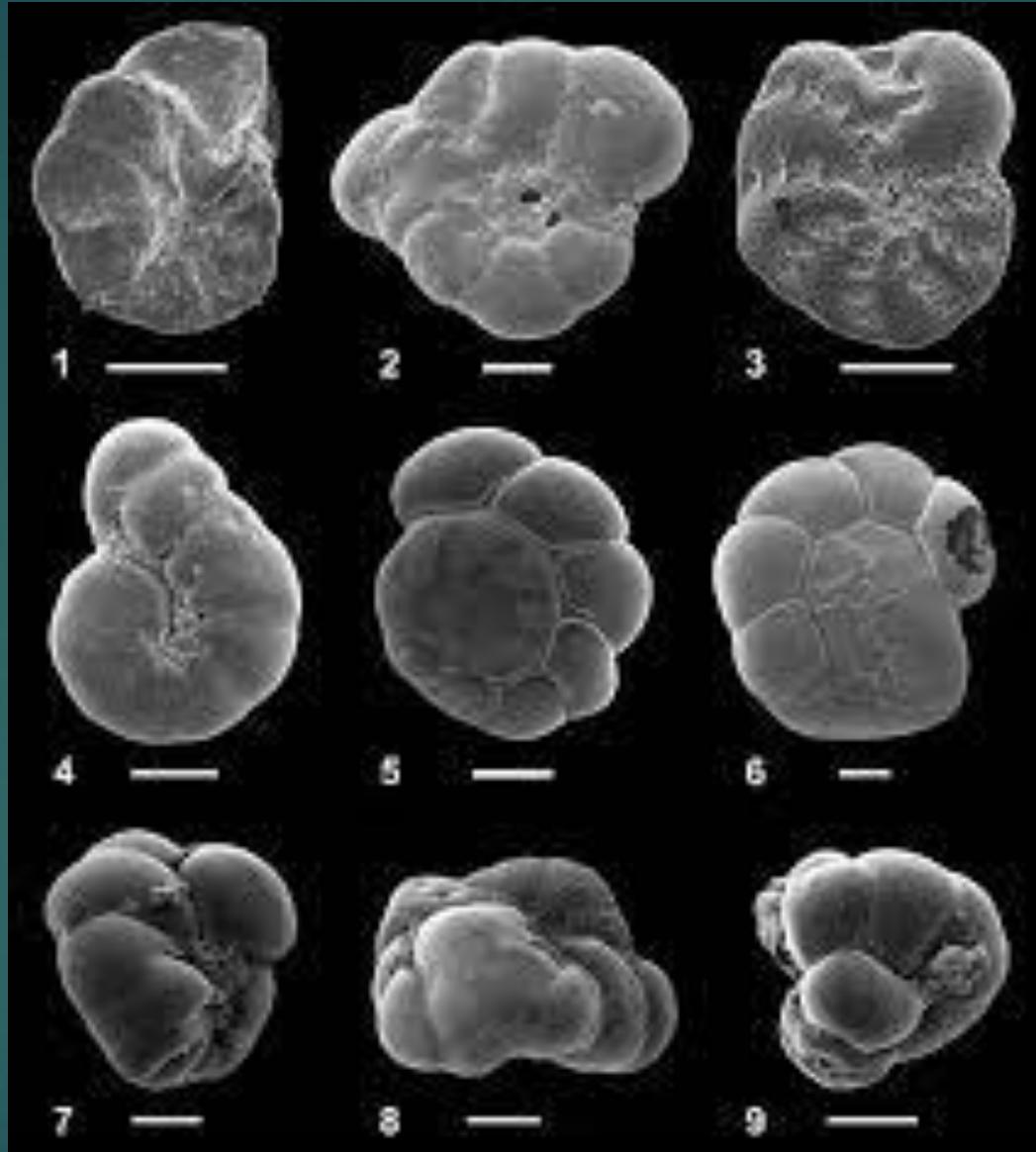
Globigerina bulloides



Hastigerina pelagica



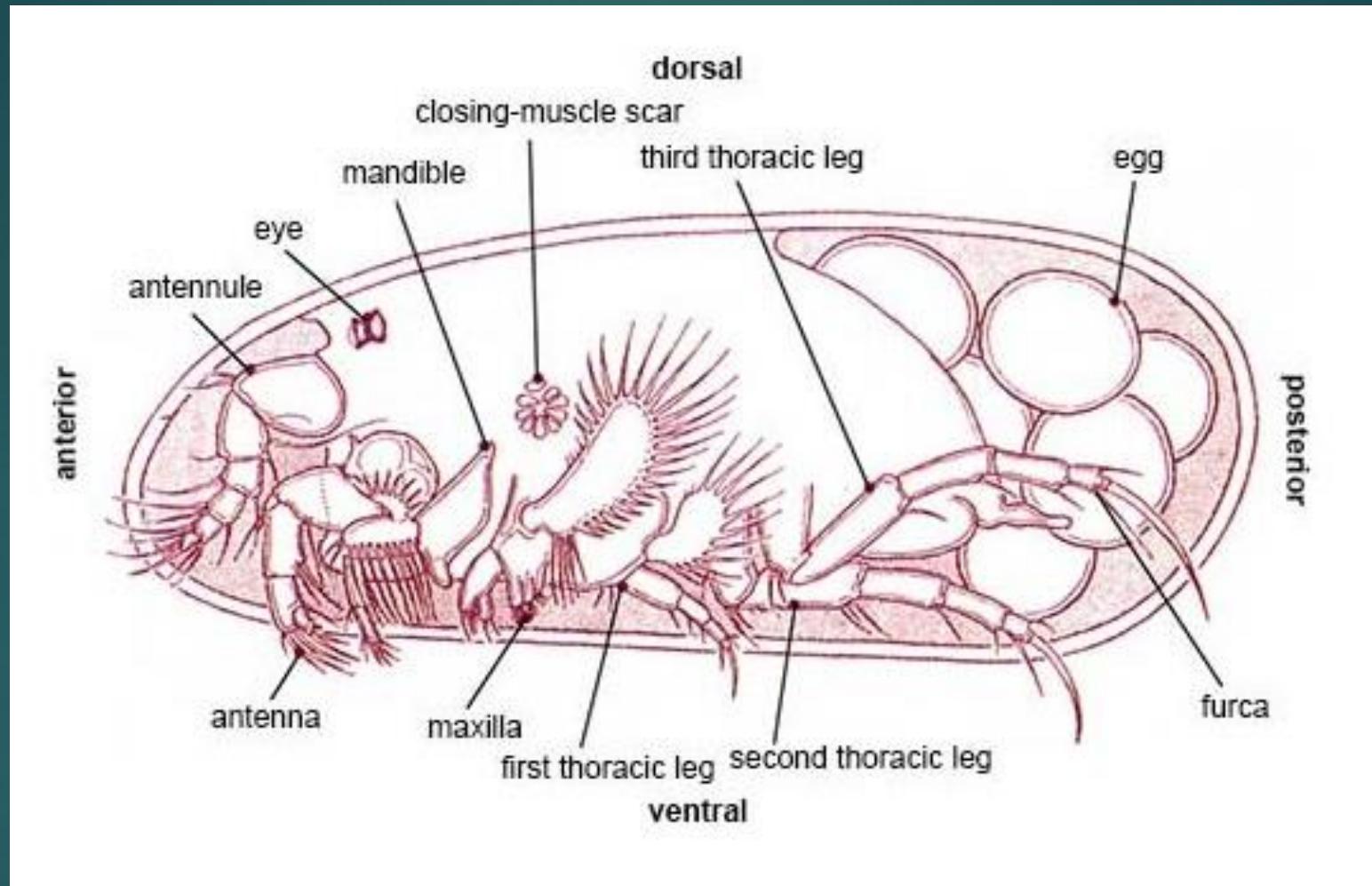
Pollution Damage (copper) to *Ammonia beccarii*



Pollution Damage to Various Species of Foraminiferids



Ostracod – *Cypridopsis vidua*



Ostracod Anatomy – *Darwinula* sp.

