Plankton Flashcards

A learning aid to accompany
GEOL 3030
Elementary Oceanography
at the University of Georgia

Directions:

Print this document.

Cut the pages in half along the dotted line.

Optionally, fold each piece in half horizontally.

View images and review characteristics
by exposing them sequentially,

or

View characteristics and test your memory
of the corresponding image.

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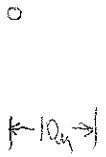

(Planktic) Bacteria

Ecologic role:

(mostly) nannoplanktic recyclers

Single-celled prokaryotes

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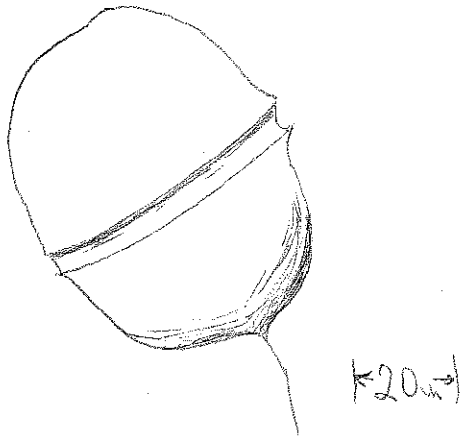

Dinoflagellate

Ecologic role:

Phytoplankton
(but also mixotrophic)

Kingdom:

Protista
(Single-celled eukaryote)

Biomineralization: none

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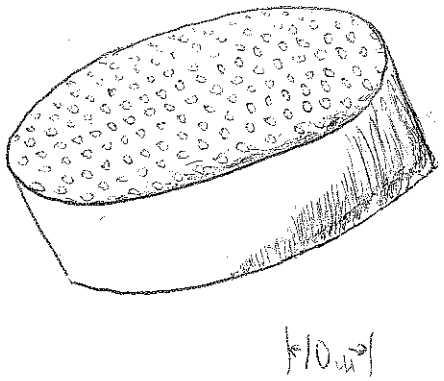

Diatom

Ecologic role:

Phytoplankton

Kingdom:

Protista
(Single-celled eukaryote)

Physical nature or biomineralization:

Opalline silica ($SiO_2 \cdot nH_2O$)

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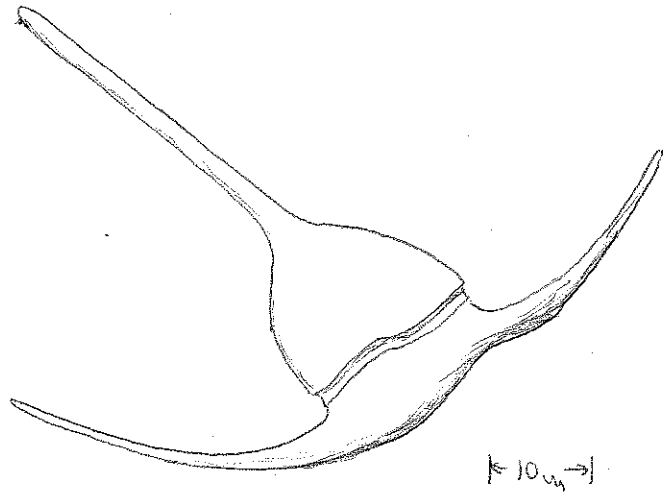

Dinoflagellate

Ecologic role:

Phytoplankton
(but also mixotrophic)

Kingdom:

Protista
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Biomineralization: none

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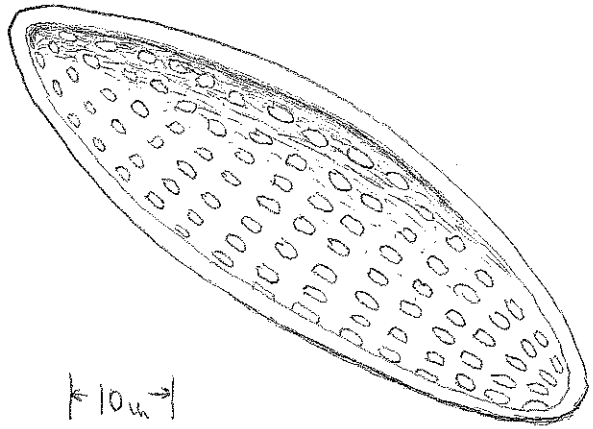

Diatom

Ecologic role:

Phytoplankton

Kingdom:

Protista
(Single-celled eukaryote)

Physical nature or biomineralization:

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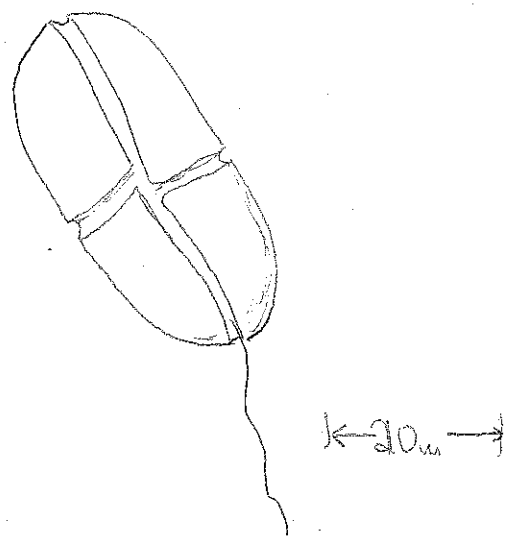

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Ecologic role:

Phytoplankton
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Kingdom:

Protista
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Biomineralization: none

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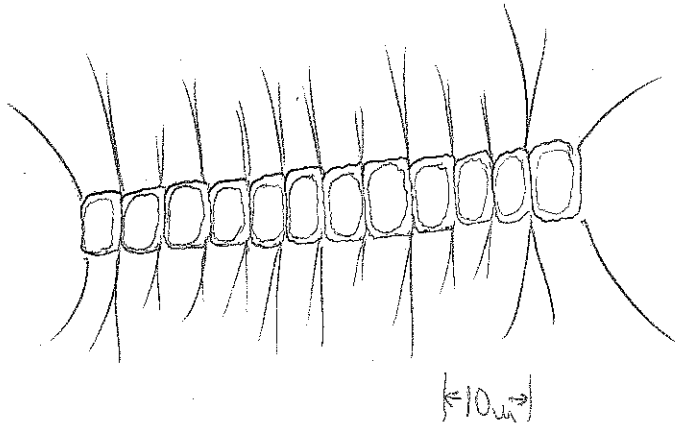

Diatom

Ecologic role:

Phytoplankton

Kingdom:

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(Single-celled eukaryote)

Physical nature or biomineralization:

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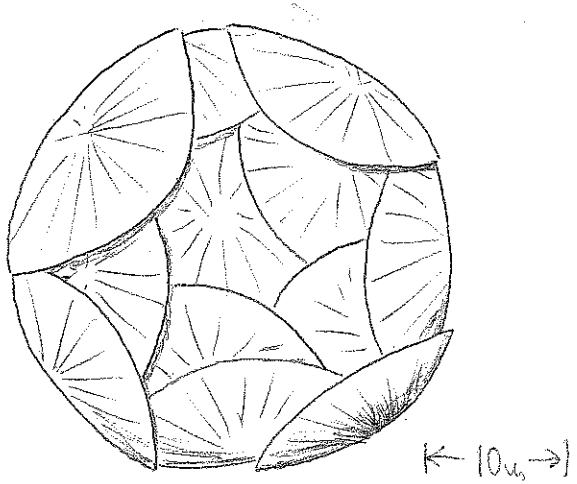

Coccolithophore

Ecologic role:

Phytoplankton

Kingdom:

Protista
(Single-celled eukaryote)

Physical nature or biomineralization:

Calcium carbonate ($CaCO_3$)
(calcite)

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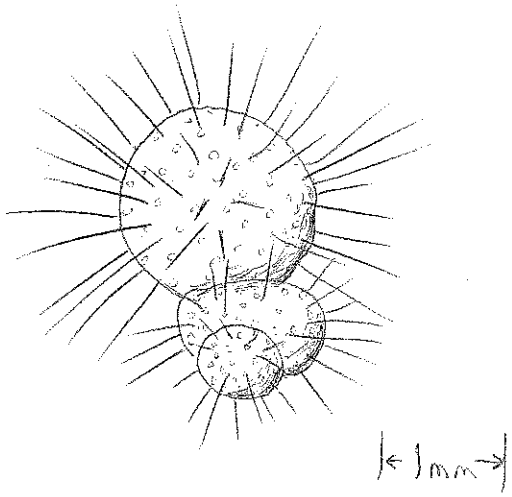

(Planktic) Foraminifer

Ecologic role:

Zooplankton

Kingdom:

Protista
(Single-celled eukaryote)

Physical nature or biomineralization:

Calcium carbonate ($CaCO_3$)
(calcite)

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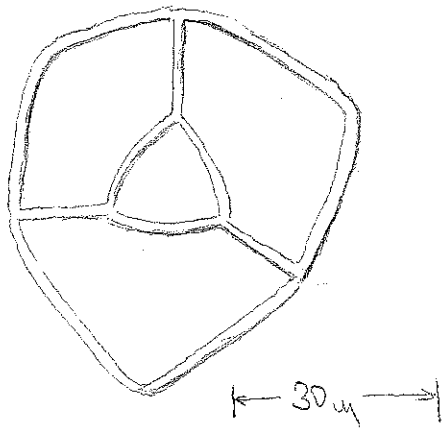

Silicoflagellate

Ecologic role:

Phytoplankton

Kingdom:

Protista
(Single-celled eukaryote)

Physical nature or biomineralization:

Opalline silica ($SiO_2 \cdot nH_2O$)

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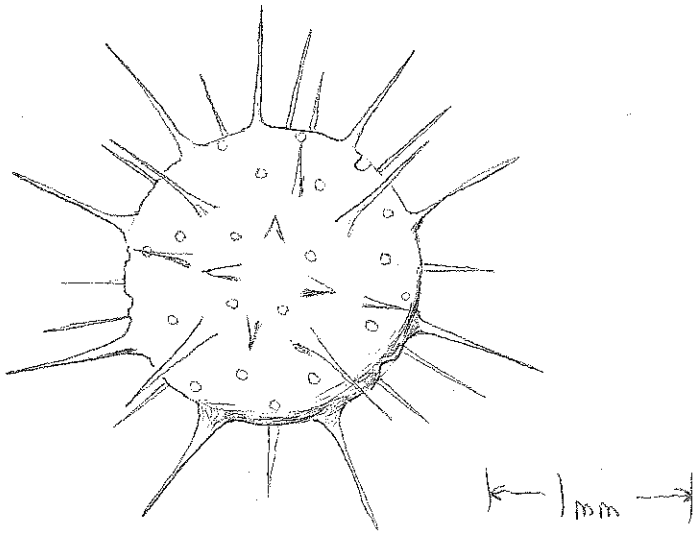

Radiolarian

Ecologic role:

Zooplankton

Kingdom:

Protista
(Single-celled eukaryote)

Physical nature or biomineralization:

Opalline silica ($SiO_2 \cdot nH_2O$)

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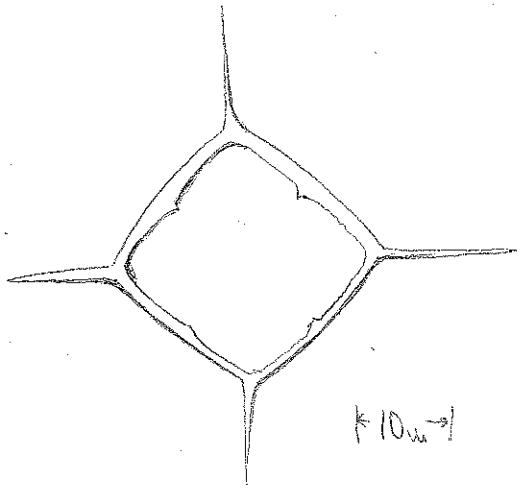

Silicoflagellate

Ecologic role:

Phytoplankton

Kingdom:

Protista
(Single-celled eukaryote)

Physical nature or biomineralization:

Opalline silica ($SiO_2 \cdot nH_2O$)

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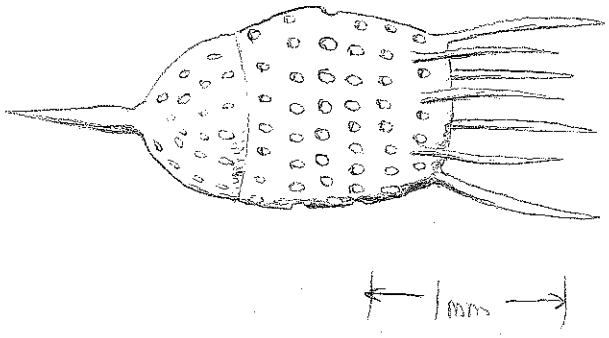

Radiolarian

Ecologic role:

Zooplankton

Kingdom:

Protista
(Single-celled eukaryote)

Physical nature or biomineralization:

Opalline silica ($SiO_2 \cdot nH_2O$)

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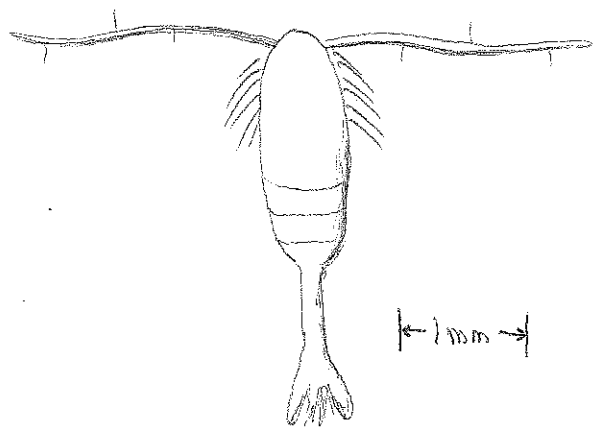

Copepod

Ecologic role:

Zooplankton

Kingdom:

Animalia
Phylum Arthropoda
Subphylum Crustacea

Iconic genus or species:
Calanus

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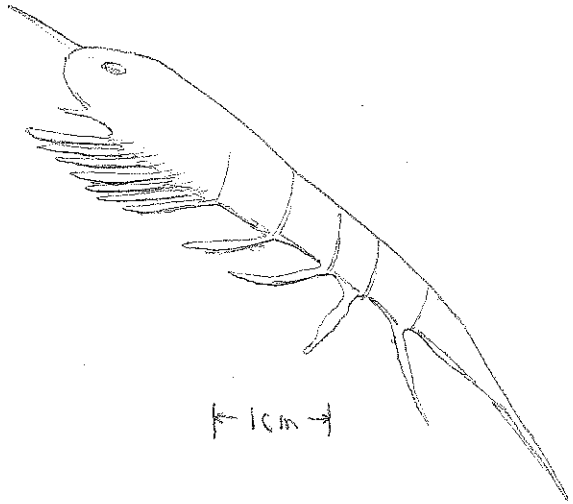

Euphausiid

Ecologic role:

Zooplankton

Kingdom:

Animalia
Phylum Arthropoda
Subphylum Crustacea

Iconic form:
Krill

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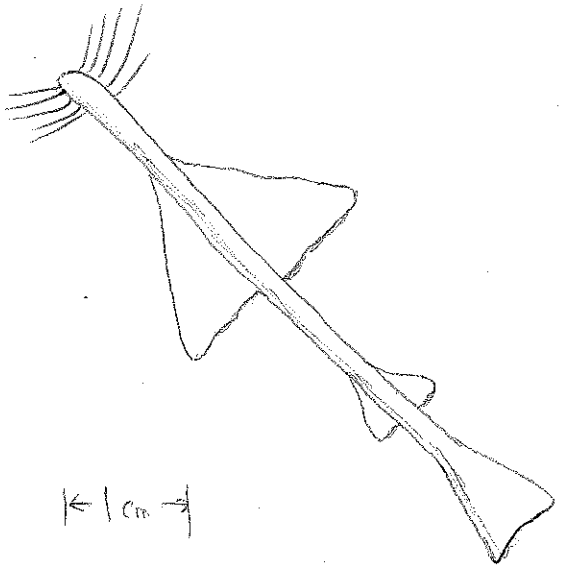

Arrow Worms

Ecologic role:

Zooplankton

Kingdom:

Animalia
Phylum Chaetognatha

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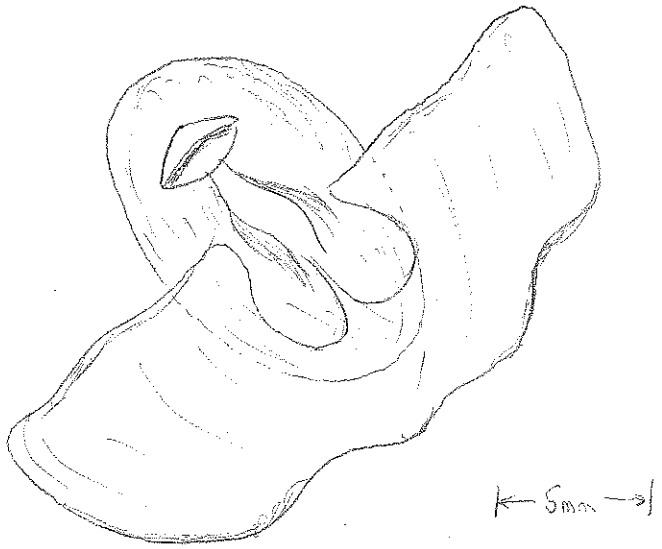

Pteropod

Ecologic role:

Zooplankton

Kingdom:

Animalia
Phylum Mollusca
Class Gastropoda

Biomineralization in warm-water species:

Calcium carbonate ($CaCO_3$)
(aragonite)

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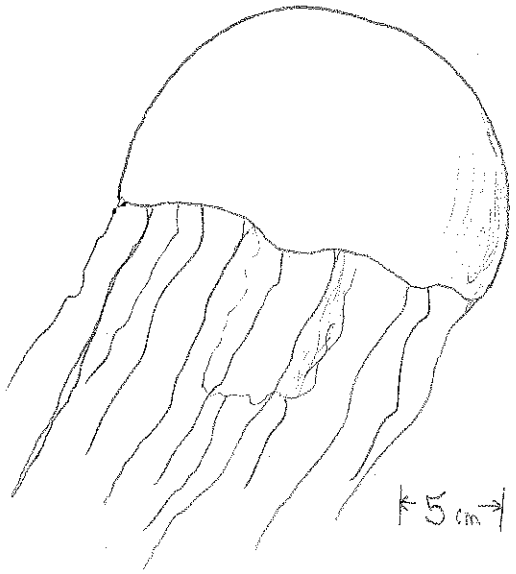

Jellyfish

Ecologic role:

Zooplankton

Kingdom:

Animalia
Phylum Cnidaria

Physical nature or biomineralization:

Gelatinous

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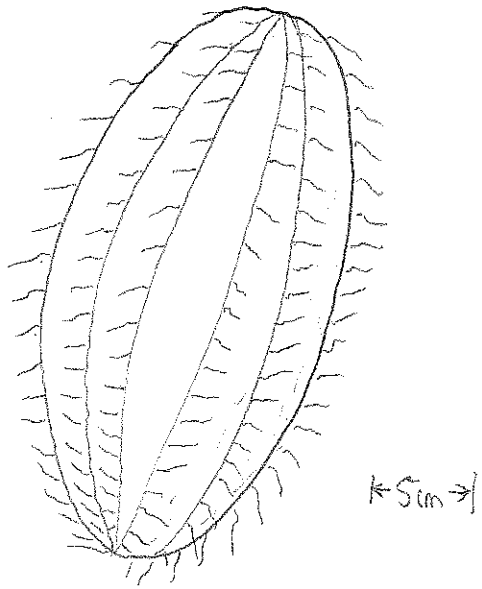

Ctenophore

Ecologic role:

Zooplankton

Kingdom:

Animalia
Phylum Ctenophora

Physical nature or biomineralization:

Gelatinous

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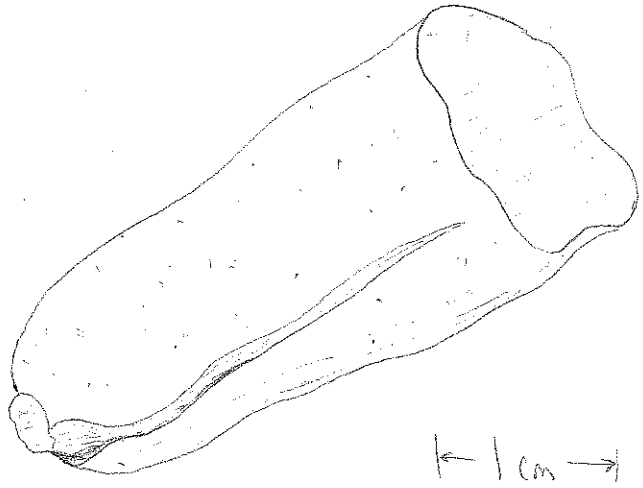

Salp

Ecologic role:

Zooplankton

Kingdom:

Animalia
Phylum Chordata
Subphylum Tunicata

Physical nature or biomineralization:

Gelatinous

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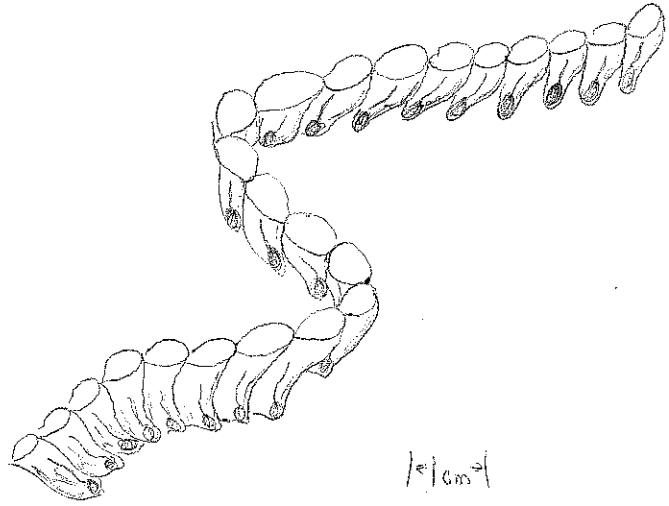

Salps

Ecologic role:

Zooplankton

Kingdom:

Animalia
Phylum Chordata
Subphylum Tunicata

Physical nature or biomineralization:

Gelatinous