



Bacillariophyceae Diversity of Aghanashini Estuary, Uttara Kannada Coast

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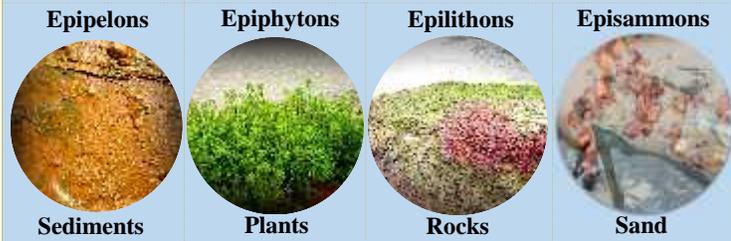
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DIATOMS

- Diatoms are a major group of microalgae that belongs to the class “Bacillariophyceae”
- They are distinguished by their ornate cell structure made of hydrated silica and are known as “**Algae in Glass houses**”
- Diatoms majorly store their energy in the form of lipids or as chrysolaminarin – a complex polysaccharide
- The diatoms are considered to be a potential source of lipids for biodiesel production

HABITATS



DIATOM DIVERSITY ANALYSIS



COLLECTION

Scraped off from the substrata using a tooth brush



PROCESSING

Diatoms are processed using KMnO₄ & hot HCl method



IDENTIFICATION

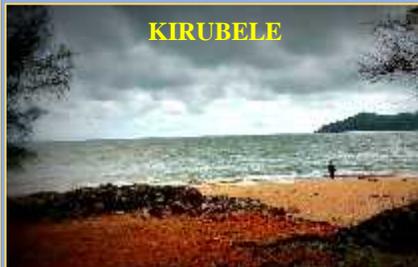
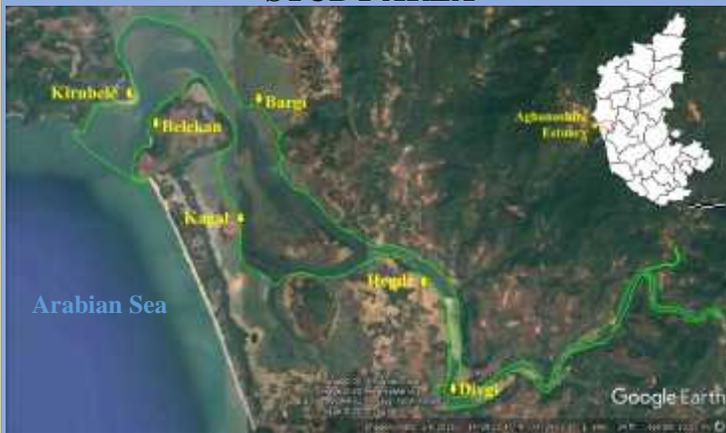
Identification is done following the key of Henry Van Heurck (1896)



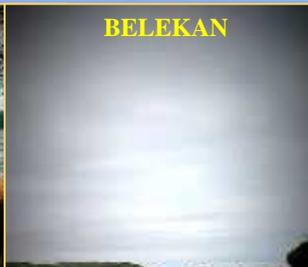
ENUMERATION

Enumeration is done using Olympus BX51 microscope by counting 400 values per slide

STUDY AREA



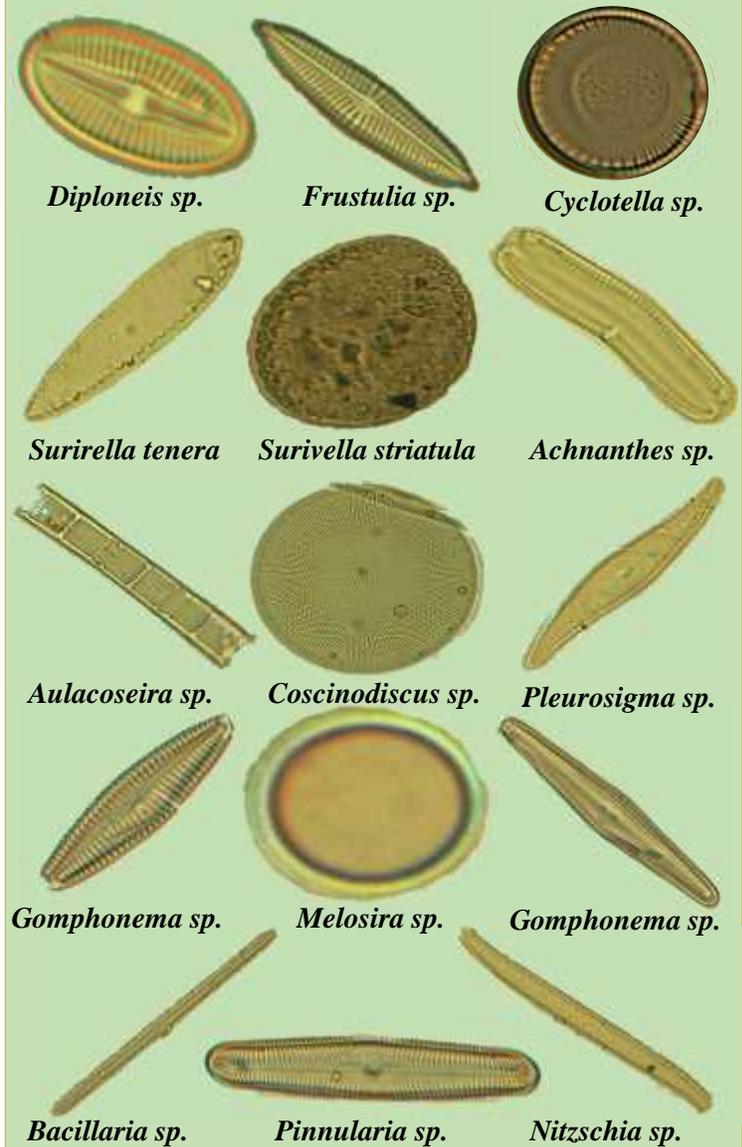
KIRUBELE



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