

Bacillariophyceae Diversity of Aghanashini Estuary, Uttara Kannada Coast

Saranya G^{1,2}, Joshi N V² and Ramachandra T V^{1,2}

¹Center for Sustainable Technology, ²Energy and Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560012, URL:<http://ces.iisc.ernet.in/energy>, email: cestvr@ces.iisc.ernet.in



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

Epipelons



Sediments

Epiphytons



Plants

Epilithons



Rocks

Episammons



Sand

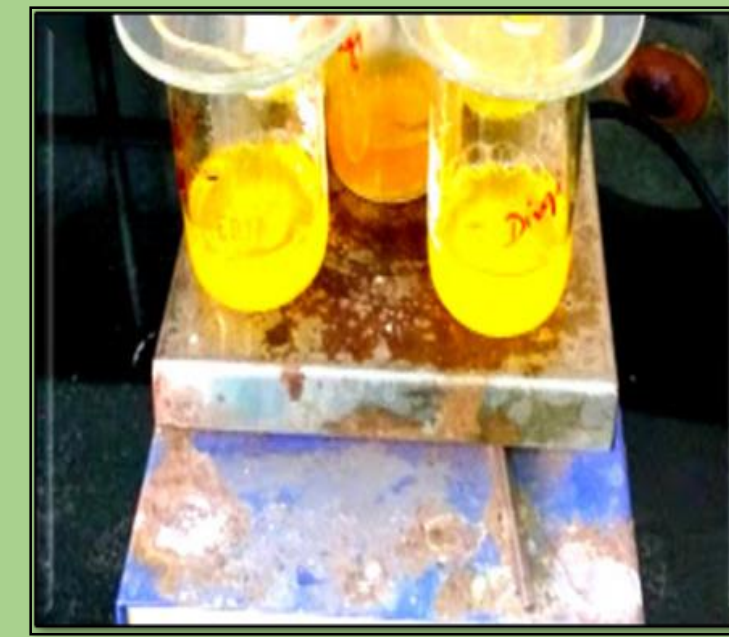
DIATOM DIVERSITY ANALYSIS

COLLECTION



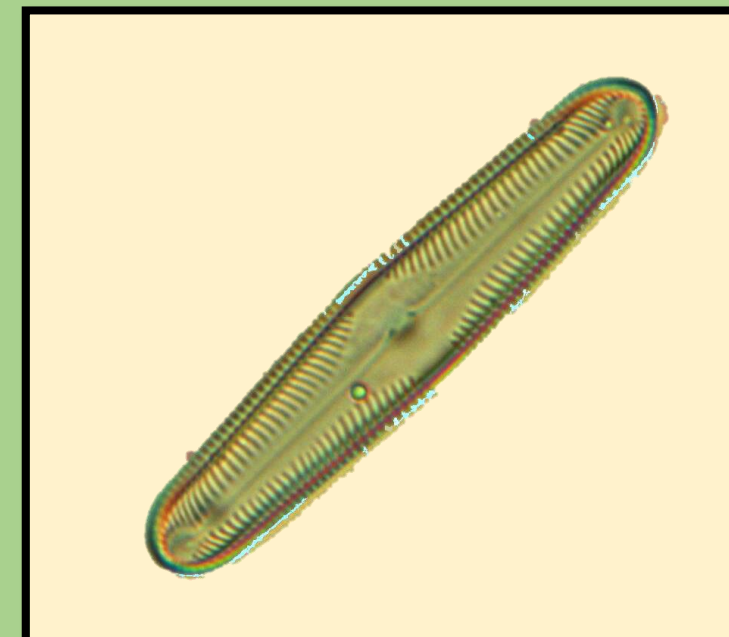
Scraped off from the substrata using a tooth brush

PROCESSING



Diatoms are processed using $KMnO_4$ & hot HCl method

IDENTIFICATION



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

ENUMERATION

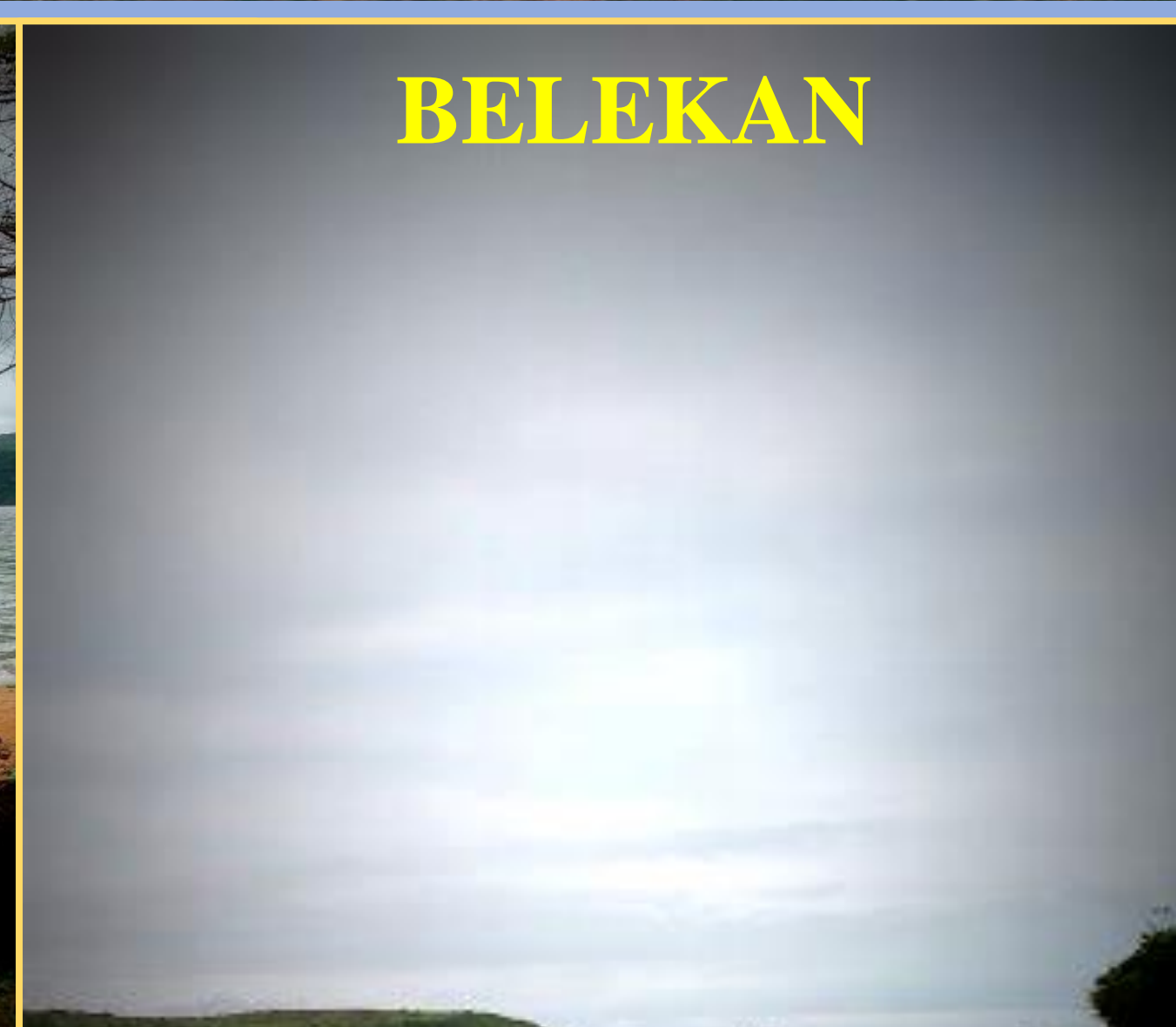


Enumeration is done using Olympus BX51 microscope by counting 400 values per slide

STUDY AREA



KIRUBELE



BELEKAN



BARGI



giz

