The Status of Marine Polychaete Research in India

^{1*}Sanitha K Sivadas, ²Russell Carvalho, ¹Baban S Ingole & ³Leslie Harris

¹CSIR-National Institute of Oceanography, Goa-India ²San Francisco Public Utilities Commission (SFPUC) San Francisco, CA ³Natural History Museum of Los Angeles County (NHLMC), Los Angeles, CA

Introduction

The Indian coastline is approximately 8118 km long. with 14 major, 44 medium & 162 minor rivers and delta tributaries. Polymetallic nodules, placers, methane hydrates, core crusts and offshore oil are extracted from the near shore to the deep sea. Approximately 7.13 million tons of biomass are harvested every year by commercial and local fisheries. Overall marine biodiversity is high, currently thought to be 15,042 species (Wafar et al., 2011).





History Of Major Polychaete Research in India 1851 -1930

Schmarda (1851): First descriptions of new species from India. Ceylon Polychaeta: Grube (1874), Michaelsen (1892) and Augener (192) Report on the Polychaeta of the Gulf of Manaar: Willey (1905) Fauna of Krusadai Island: Souththern (1911), Gravely. (1921) and Fauvel Eauna of Karachi : Bindra (1927)

Fauvel's Contribution to Indian Polychaete

Well-known French polychaetologist

Major Contribution: The Fauna of India Including Pakistan, Ceylon, Burma and Malaya, Vol I & II (1953). Part of the series – The Fauna of India (Initially: The Fauna of British India) (Govt. of India) Reported 304 species from India



Remains the most comprehensive work on polychaetes of India.



Olga Hartman: 1st International Indian Ocean Expedition

- Olga Hartman (1974, parts I & II): Indian Ocean
- Part I: Taxonomy, with 244 taxa of which 116 were new to the area and 16 were newly described. Part II, a catalogue of species and bibliography, listed 883 species in 315 genera and 59 families

Olga Hartman

Role of Zoological Survey of India (ZSI) 1965-1990

- Polychaete taxonomic study largely neglected Played an important role during the 1990's
- Studies focused on general biodiversity and 594 Publications
- ecological research.

- 18 publications exclusively on polychaetes
- **Current Research Groups Role of CSIR-NIO** CSIR-National Institute of Oceanography, Goa
 bioSearch- a database for the biodiversity information of India. Centre for Marine Living Resources, Kerala • Free open access to encourage regional & international scientific initiatives.

Prof. Dr. Pierre Louis André Fauvel Professeur de Zoologie d L'Universite catholique d'Angers, France.

- Cochin University, Kerala
- Andhra University

 - Future Plans
 - National & International Collaboration
 - Update of monographs
 - Improve the *bioSearch* database by adding molecular information •GIS data to assess the effects of climate change along the Indian Subcontinent.









Ecology samples carried out from intertidal to deep-Sea.