

**National Conference on “Integrating Biogeochemistry and Ecosystems in a Changing
Oceanic Environment”**

**KUFOS-INCOIS JOINT RESEARCH CENTRE,
Kerala University of Fisheries and Ocean Studies (KUFOS).**

Panangad, Ernakulam, Kerala- 682506.

17-18 January, 2019

Day 1: 17 January 2019	
09:30 – 11:00	Inaugural Function
09:30 – 09:40	Invocation followed by Lighting of Lamp
09:40 – 09:50	Welcome Address by Dr. T. V Sankar , Director of Research, KUFOS
09:50 – 10:00	About the Conference by Dr. Kunal Chakraborty, Joint Coordinator
10:00 – 10:15	Presidential Address by Prof. Dr. A. Ramachandran, VC, KUFOS
10:15 – 10:30	Inaugural Address by Dr. S. S. C. Shenoi, Director, ESSO-INCOIS
10:30 – 10:40	Remarks by Dr. V. M. Victor George, Registrar, KUFOS
10:40 – 10:50	Remarks by Dr. S. Suresh Kumar, Director, SOST, KUFOS
10:50 – 10:55	Release of the Book of Abstracts by VC, KUFOS & Director, ESSO-INCOIS
10:55 – 11:00	Vote of thanks by Dr. Anu Gopinath, Joint Coordinator
11:00 – 11:10	Inauguration of Posters Hall by VC, KUFOS & Director, ESSO-INCOIS
11:10 – 11:30	Tea Break
11:30 – 13:00	Session 1: Ocean Modeling Applications in Biogeochemistry Chair: Dr. S. S. C. Shenoi, Director, ESSO-INCOIS
11:30 – 12:00	Invited talk by Dr. G. V. M. Gupta, CMLRE, Kochi Title: Marine Biogeochemistry - An overview from the northern Indian Ocean
12:00 – 12:30	Invited talk by Dr. Vinu Valsala, IITM, Pune Title: Western Arabian Sea Acidification, seasonal variability and trends.
12:30 – 13:00	Invited talk by Dr. Francis P.A., INCOIS, Hyderabad Title: Structure and Dynamics of the Under Currents Along the East Coast of India
13:00 – 14:00	Lunch break
14:00 – 15:30	Session 1(Continued): Ocean Modeling Applications in Biogeochemistry Chair: Dr V. N. Sanjeevan, Professor Chair, KUFOS (Former Director, CMLRE, Kochi)
14:00 – 14:30	Invited talk by Dr. V. Vijith, CUSAT, Kochi Title: On the winter phytoplankton bloom in the northeastern Arabian Sea
14:30 – 15:00	Invited talk by Dr. U. S. Panda, NCCR, Chennai Title: Modelling biogeochemical processes in the coastal waters off Chennai
15:00 – 15:30	Flash poster presentation (5 min each) 1. Kunal Madkaiker : Study of ocean pH variability from 1961-2010 in indo-pacific ocean using paleo-ocean pH records from boron isotope ratio and

	<p>model</p> <ol style="list-style-type: none"> 2. T. Mayur: Qualitative & Quantitative relationship assessment of Upwelling dynamics, Productivity and pelagic catch by satellite data of Southwest coast, India 3. Vishnu Narayanan Nampoothiri: Assessment of the ROMS simulated biogeochemical dynamics in the indian coastal waters 4. Grinson George: CDOM – an optical tool to assess the biogeochemical cycling in the estuary 5. Syam Sankar: The influence of increased warming on the dissolved oxygen concentration in the eastern Arabian Sea : a modeling approach 6. Midhun Shah Hussain: Time series analysis of the recurring bloom in North Eastern Arabian Sea
15:30 – 16:00	Tea break & Poster
16:00 – 17:15	Session 1(Continued): Ocean Modeling Applications in Biogeochemistry Chair: Dr. Kunal Chakraborty, Scientist, ESSO-INCOIS
16:00 – 17:15	<p>Oral Presentation (15 min each)</p> <ol style="list-style-type: none"> 1. R Manivanan: Simulation of nutrient dynamics in coastal environment at Tarapore, Mumbai, Maharashtra 2. Anju Mallisery: Development & implementation of a multi-component Ecosystem model with linkage between lower & upper trophic levels for the Northern Indian Ocean (NIO) & its applications. 3. Gayathri R: A comparative study of physico-chemical parameters of Cochin estuary and Chilika lagoon. 4. Jayashree Ghosh: A comparative nutrient dynamics of an open and semi-enclosed estuary on the eastcoast of India. 5. Prasanth R: Time-depth evolution of chlorophyll in the Arabian Sea - A description based on model and Argo data
Day 2: 18 January 2019	
09:30 – 11:00	Session 2: Coastal Biogeochemical Processes Chair: Dr T. V. Sankar, Director of Research, KUFOS
09:30 – 10:00	<p>Invited talk by Dr. Aneesh Lotliker, INCOIS, Hyderabad</p> <p>Title: Optical Characterization of Indian coastal waters - Influence of biogeochemical processes</p>
10:00 – 10:30	<p>Invited talk by Dr. Rajdeep Roy, NRSC-ISRO, Hyderabad</p> <p>Title: Some aspects of volatile halogenated organic compounds (VHOC) from coastal eastern Arabian Sea</p>
10:30 – 11:00	<p>Flash poster presentation (5 min each)</p> <ol style="list-style-type: none"> 1. Regina Hershey N: Nitrous oxide contribution from Mangalavanam coastal wetland, Kerala 2. Alfisa Siddique: Environmental interaction of gelatinous zooplankton swarm in the pelagic food web of sundarbans 3. Adithya Suthan: Temporal variations in the concentration of metals in vembanad lake in relation to 2018 flood 4. Geethu Mohan: An unusual occurrence of Trichodesmium bloom in the lagoon of Minicoy Island, Lakshadweep

	<p>5. Anu Susan Cheriyan: Bulk Organic Matter Profile in a Tropical Mangrove Ecosystem of Cochin, Kerala, Southwest Coast of India</p> <p>6. Haritha V. S.: Mapping vulnerability of coastal villages of Karnataka towards sea level rise</p>
11:00 – 11:30	Tea break & poster
11:30 – 13:15	Session 2 (Continued): Coastal Biogeochemical Processes Chair: Dr. Aneesh Lotliker, Scientist, ESSO-INCOIS
11:30 – 12:00	Invited talk by Dr. Sarat Chandra Tripathy, NCPOR, Goa Title: Role of southern ocean in global climate change: salient findings from Indian Southern Ocean expeditions
12:00 – 12:30	Invited talk by Dr. Nayeem, KUFOS, Kochi Title: Arabian Sea and Nitrous Oxide; a stable isotope story
12:30 – 13:15	<p>Oral Presentation (15 min each)</p> <ol style="list-style-type: none"> 1. M.H.K. Prasad: Export of dissolved inorganic carbon to the Northern Indian Ocean from the Indian Monsoonal rivers 2. Madhusudan Paul: Distribution of Associated Biogeochemical Parameters of Carbonate system And air-sea Exchange of CO₂ in the east Equatorial Indian Ocean 3. Kausarf Bepari: Study on the Variation of Dimethyl sulphide and associated Compounds in the Coastal waters of Goa, west coast of India
13:15 – 14:00	Lunch break
14:00 – 16:00	Session 3: Biogeochemistry and Fisheries Chair: Prof. Dr. Suresh Kumar , Director, SOST, KUFOS
14:00 – 14:30	Invited talk by Dr. V. N. Sanjeevan, KUFOS, Kochi Title: The Biogeochemistry behind recruitment success in Fishery
14:30 – 15:00	Invited talk by Dr. Kunal Chakraborty, INCOIS, Hyderabad Title: Demonstration of a coupled biophysical model for the prediction of potential fishing zones
15:00 – 15:30	Invited talk by Dr. Greenson George, CMFRI, Kochi Title: Surrogate datasets addressing the challenges in marine ecosystems: specific case studies on larval movement, fishing grounds, inter annual fluctuations and distribution in fishes and coral reef bleaching
15:30 – 16:00	Invited talk by Dr. Anu Gopinath, KUFOS Title: Hypoxia and Its Consequences in the coastal waters off Kochi – An overview of the new project initiative under KUFOS-INCOIS centre
16:00 – 16:30	Tea break & poster
16:30 – 17:30	Valedictory
16:30 – 16:40	Feedback from Conference Participants
16:40 – 16:50	Concluding remarks by Prof. Dr. A. Ramachandran, VC, KUFOS
16:50 – 17:00	Concluding remarks by Dr. S. S. C. Shenoi, Director, INCOIS
17:00 – 17:30	Distribution of Certificates