

## Dr. G. V. M. Gupta



Dr. G.V.M. Gupta received his M.Sc in Chemical Oceanography from Andhra University, Visakhapatnam in 1992. He joined National Institute of Oceanography, Visakhapatnam as Junior Research Fellow under the project Coastal Ocean Monitoring and Predictive Systems (COMAPS) and worked on the estuarine/coastal pollution and biogeochemistry of the Bay of Bengal through extensive field surveys. He received his Ph.D from Andhra University in 1999 for his work on Particulate Matter Composition in the Bay of Bengal. He worked as a Manager (Environment)

in an Environmental Consultancy in Baroda for one year before joining Integrated Coastal and Marine Area Management (ICMAM) Project Directorate, Chennai as Scientist-C in 1999. His research at ICMAM was focused GIS based Critical Habitat Information Systems for ecologically sensitive regions. He worked extensively on the quality control aspects through inter-calibration exercises for network projects. He was first to conceive Ecosystem Modeling studies for estuaries (Cochin backwaters, Hooghly) and lakes (Chilka) and undertook multidisciplinary studies by integrating biogeochemistry and ecosystem dynamics. His decadal research gave impetus on carbon dynamics and emissions of carbon dioxide from these estuarine systems.

Dr. Gupta actively involved in biogeochemical studies of the Arabian Sea. His initiative on Kochi Time-series (KoTS) studies, for the first time, has tracked the upwelling and associated biogeochemistry from its onset to decay. His research on coastal deoxygenation has established its pivotal role in production of greenhouse gases and influence on the marine biota including fishery along the west coast of India. His contributions on coastal deoxygenation that it remains unchanged from that of five decades ago as it is mainly of natural origin has given new dimension of understanding on insignificant anthropogenic impacts and also instrumental in evolving many new hypotheses. His studies have also helped in development and validation of coupled biophysical models towards capturing and better understanding physical and biogeochemical dynamics of the Arabian Sea. Through his concerted efforts Dr.Gupta is initiating a mega time-series, multi-institutional and multi-disciplinary study Marine Ecosystem Dynamics of eastern Arabian Sea (MEDAS) to address many scientific and societally important issues through ecosystem approach in the next three years.

Dr. Gupta has authored around 25 research publications in peer-reviewed national/ international journals.

Dr. G.V.M. Gupta is awarded Certificate of Merit for his outstanding contributions in the field of Ocean Science and Technology.