

Subtheme 10
Marine biodiversity and ocean ecosystem
Session 1 Time & Date: 14:00- 15:30 IST, 27 February 2024
Oral presentations: 5 ; Poster+Flash presentation: 4 ; Poster presentation:9
Venue:Raman

Oral presentation

Serial No	Abstract Id	Abstract Title	Author Name	Co Author Names
1	WOSC/2024/ABS/53	Diatoms & their associated meiofauna from off-shore sediments of Port Blair		
2	WOSC/2024/ABS/39	Biomonitoring in the Arctic Fjords employing FHHB algorithm		
3	WOSC/2024/ABS/98	Decadal variations in phytoplankton compositions in Southern Ocean and Global Ocean influenced by biogeochemical variables		
4	WOSC/2024/ABS/301	Jellyfish Biodiversity in Sabah, Malaysia		
5	WOSC/2024/ABS/102	Sea Anemone Venom: Unravelling Ion Channel Interactions for Therapeutic Insights		

Poster+ Flash presentations

Serial No	Abstract Id	Abstract Title	Author Name	Co Author Names
1	WOSC/2024/ABS/96	Diversity and nutritional profile of Scorpaeniformes from the Arabian Sea; From underrated exploitation to sustainable utilization		
2	WOSC/2024/ABS/255	Diversity and distribution of squat lobsters in the Indian Exclusive Economic Zone		
3	WOSC/2024/ABS/324	First quantitative assessment of acorn worm (Enteropneusta) from the deep (below 5500 m) Indian Ocean: An underwater image analysis approach along the potential PMN mining site		
4	WOSC/2024/ABS/253	Marine Mammal Diversity in the Eastern Arabian Sea: Insights from FORV Sagar Sampada		

Poster presentations

Serial No	Abstract Id	Abstract Title	Author Name	Co Author Names
1	WOSC/2024/ABS/51	Diversity, distribution and population ecology of intertidal Asteroidea fro		
2	WOSC/2024/ABS/130	Length weight relationship and note on biological observations on the bristly catshark <i>Bythaelurus hispidus</i> (Alcock, 1891) from southwest coast of India		
3	WOSC/2024/ABS/133	Length Weight Relationship and Relative Gut Ecomorphology of Three Leiognathid Species from Andaman Waters		
4	WOSC/2024/ABS/136	ECOLOGICAL STATUS, LENGTH-WEIGHT RELATIONSHIP AND CONDITION FACTOR OF <i>PERONIA VERRUCULATA</i> (CUVIER, 1830) ALONG COASTAL SAURASHTRA, GUJARAT, INDIA		
5	WOSC/2024/ABS/197	Insights into Cetacean Strandings: A Comprehensive Study of Kerala coasts of India (2022-2023)		
6	WOSC/2024/ABS/383	Ecological Dynamics and Seagrass Biodiversity in the Andaman and Nicobar Islands.		
7	WOSC/2024/ABS/426	Occurrence, Diversity of Batoids fishes from Tamil Nadu coast, Southeast coast of India		
8	WOSC/2024/ABS/420	Length-weight relationships and relative condition factor of Fourteen tropical Marine fish species from Gulf of Mannar along the Southeast Coast of India		
9	WOSC/2024/ABS/442	First report of three marine fish species to Indian waters; one new record of blackfin stonefish (<i>Pseudosynanceia melanostigma</i>) to India and two new reports of Engraulids (<i>Thrissina gautamiensis</i> and <i>Stolephorus tamilensis</i>) from the West Coast of India		

Subtheme 10
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Session 2 Time & Date: 16:00- 17:30 IST, 27 February 2024
Oral presentations: 6; Poster+Flash presentation: 4; Poster presentation: 9
Venue: Raman

Oral presentations

Serial no	Abstract Id	Abstract Title	Author Name	Co Author Names
1	WOSC/2024/ABS/338	Biopolymer compounds Isolation, characterization from native Seaweed and their biological activities for Bioprospecting application		
2	WOSC/2024/ABS/313	Impact of light levels on antioxidant activity on three centric diatom species		
3	WOSC/2024/ABS/307	Are Indian mackerel (<i>Rastrelliger kanagurta</i>) populations in the eastern Indian Ocean truly homogeneous? Insights from geometric morphometric analysis		
4	WOSC/2024/ABS/196	Dolphins of Two Seas: Unravelling the Genetic Uniqueness of Indian Ocean Humpback Dolphins		
5	WOSC/2024/ABS/429	Insight into the perplexing metagenetic life cycle and distribution of upside-down jellyfish <i>Cassiopea</i> from Indian waters		
6	WOSC/2024/ABS/382	GEOINFORMATICS BASED COASTAL AND MARINE ENVIRONMENTAL CHANGES AROUND NORTH MALE ATOLL MALDIVES.		

Poster+Flash presentation

Serial no	Abstract Id	Abstract Title	Author Name	Co Author Names
1	WOSC/2024/ABS/12	Features of subsurface chlorophyll maxima and their regulators in the Arabi		
2	WOSC/2024/ABS/25	Ocean acidification influences on the health and nutritional value of tropi		
3	WOSC/2024/ABS/167	Impact of deep sea environment on methane related activities in the sediment		
4	WOSC/2024/ABS/216	Delineating micro-phytoplankton morphometry as potential ecological indicators in the Indian Ocean: elucidation from sea surface and variable sub-surface chlorophyll maxima		

Poster presentation

Serial no	Abstract Id	Abstract Title	Author Name	Co Author Names
1	WOSC/2024/ABS/325	Meiobenthic biodiversity of a Hydrothermally Active Seamount in Southwestern Andaman Sea		
2	WOSC/2024/ABS/97	Prevention of coral disease caused by pathogens using the beneficial microbial associates		
3	WOSC/2024/ABS/132	Bacterial Diversity of Arabian Sea Sediment: Implications for Functional Significance in Phosphate Solubilisation		
4	WOSC/2024/ABS/45	Screening of a halotolerant <i>Bacillus</i> spp. for protease production and for		
5	WOSC/2024/ABS/83	Carbon dioxide sequestration by marine microbial carbonic anhydrase and its application in biomineralization		
6	WOSC/2024/ABS/148	Metal substrate influence on marine diatom biofilm: unravelling physio-biological dynamics and cell-surface interactions		
7	WOSC/2024/ABS/246	Bioinformatic Characterization and Functional Evaluation of Thymosin (Ph-Thy) from <i>Panulirus homarus</i>		

8	WOSC/2024/ABS/164	Elasmobranch Fish Identification using YOLO - A Deep Learning Approach		
9	WOSC/2024/ABS/331	Comparative Analysis of Bacterial Microbiomes from Mangrove Habitats, a Blue Carbon Ecosystem vs Terrestrial Forest using Amplicon Sequencing		

Subtheme 10
Marine biodiversity and ocean ecosystem
Session 3 Time & Date: 14:00- 15:30 IST, 28 February 2024
Oral presentations: 7; Poster+Flash presentation: 3; Poster presentation: 9
Venue: Raman

Oral presentation

Serial no	Abstract Id	Abstract Title	Author Name	Co Author Names
1	WOSC/2024/ABS/35	Impact of Ocean acidification by different drivers on phytoplankton in BoB		
2	WOSC/2024/ABS/80	IMPACT OF CLIMATE CHANGE ON MARINE BIODIVERSITY AND OCEAN ECOSYSTEM IN INDAIN OCEAN		
3	WOSC/2024/ABS/154	Short-term coloration of Caranzalem beach (central west coast of India) due to diatom bloom and organic litter during the southwest monsoon		
4	WOSC/2024/ABS/147	Wave energy of the southwest monsoon and "Biparjoy" cyclone on the displacement and deposition of chitinous tubes of Spiochaetopterus worms along the west coast of India		
5	WOSC/2024/ABS/306	Evaluation of the role of Rubisco activases in activating Rubisco for fixing the atmospheric CO2 in mangroves		
6	WOSC/2024/ABS/79	Biodegradation of Pyrene by Piezotolerant Hydrocarbonoclastic Deep-sea Brucella anthropi IOW5		
7	WOSC/2024/ABS/169	Bioprospecting the Potentials of Manglicolous Yeast β -Glucan: An invitro approach		

Poster+Flash Presentations

Serial no	Abstract Id	Abstract Title	Author Name	Co Author Names
1	WOSC/2024/ABS/409	Interspecific Association and Epibiosis: First Report of Peritrich Ciliate Epibiont Rhabdostyle Species on Diopatra neapolitana in Indian Coastal Ecosystem		
2	WOSC/2024/ABS/202	Impact of Ocean acidification on microzooplankton communities - An experimental study from the coastal waters of Bay of Bengal, India.		
3	WOSC/2024/ABS/241	An account on microplastic ingestion by zooplankton community in the coral reef lagoons of Lakshadweep archipelago		

Poster Presentations

Serial no	Abstract Id	Abstract Title	Author Name	Co Author Names
1	WOSC/2024/ABS/49	Acroporidae family coral species habitat modelling for site specific manage		
2	WOSC/2024/ABS/74	Bioaccumulation of heavy metals and anti-oxidative changes in marine polychaete worms at Chennai estuaries, India		

3	WOSC/2024/ABS/37	Distribution of Symbiodiniaceae and its effect in countering Anthropogenic		
4	WOSC/2024/ABS/76	Metal Accumulation In Different Molluscan Species Collected From Southern Palk Bay, India		
5	WOSC/2024/ABS/40	Heavy metal accumulation in plankton in 24 hour tidal cycle, Ganges estuary		
6	WOSC/2024/ABS/376	Island mass effect on biogeochemistry of coastal waters around Grande Island		
7	WOSC/2024/ABS/254	Microplastics pollutant in marine ecosystem, its associated health hazards and its biotechnological interventions		
8	WOSC/2024/ABS/240	SEASONAL VARIATION OF CHLOROPHYLL-A AS THE INDICATOR OF CLIMATE CHANGE		
9	WOSC/2024/ABS/145	Surface Preference and Nutrient Influences in Settlement and Development of Ulva Spores into Germlings		

Subtheme 10
Marine biodiversity and ocean ecosystem
Session 4 Time & Date: 16:00- 17:30 IST, 28 February 2024
Oral presentations: 6; Poster+Flash presentation: 4; Poster presentation:9
Venue: Raman

Oral presentation

Serial no	Abstract Id	Abstract Title	Author Name	Co Author Names
1	WOSC/2024/ABS/104	Exploring the nematode-to-copepod ratio and harpacticoid copepod as a bioindicator for monitoring metal pollution in the Netravati-Gurupura estuarine ecosystem		
2	WOSC/2024/ABS/124	Immune response of the coral, <i>Acropora</i> sp., from different islands of Lakshadweep		
3	WOSC/2024/ABS/139	Biological Continuity of Copepods in the Oceanic and Coastal Oxygen Minimum Zones in the Eastern Arabian Sea		
4	WOSC/2024/ABS/353	STUDY ON ACCUMULATION OF PESTICIDES AND MICROPLASTICS IN THE SEDIMENTS OF KONGSFJORDEN - KROSSFJORDEN SYSTEMS OF ARCTIC.		
5	WOSC/2024/ABS/354	DETECTION OF MERCURY IONS IN AQUEOUS MEDIA USING THE POLAR SEAWEED MEDIATED GREEN SYNTHESIZED SILVER NANOPARTICLES		
6	WOSC/2024/ABS/75	GAN-Augmented YOLO Framework: Scaling Coral Reef Health Monitoring with Synthetic Data		

Poster+Flash presentation

Serial no	Abstract Id	Abstract Title	Author Name	Co Author Names
1	WOSC/2024/ABS/142	Enhancing the growth conditions of the marine bacterium, <i>Bacillus cereus</i> , a valuable source of the biopolymer, poly- hydroxy butyrate/co-valerate at fermenter level		
2	WOSC/2024/ABS/144	Silicone-chitosan mediated cross-linked composites: A biomimetic approach for antibiofilm applications.		
3	WOSC/2024/ABS/249	Metagenomic Profiling of Virome Associated with the Estuarine Sediment		
4	WOSC/2024/ABS/389	CORAL MICROBIOME: AN INDISPENSABLE FOREFRONT FOR THE REEF ECOSYSTEMS		

Poster Presentations

Serial no	Abstract Id	Abstract Title	Author Name	Co Author Names
1	WOSC/2024/ABS/356	How many macrofaunal species exist in Deep-sea abyssal Indian designated polymetallic nodule site, Central Indian Ocean Basin? - A preliminary methodological insights		

2	WOSC/2024/ABS/200	Implications of ocean acidification on trace metals and their primary biological impacts: a review		
3	WOSC/2024/ABS/26	Upsetting intertidal food web: Implications of ocean acidification on the p		
4	WOSC/2024/ABS/386	Characteristics of Marine Heat Waves during the Pre-Monsoon Season and its association with Chlorophyll-a concentration in the Arabian Sea and the Bay of Bengal.		
5	WOSC/2024/ABS/127	Exploring the seamounts of the Arabian Sea: A hub of microbial diversity and bioprospecting opportunities.		
6	WOSC/2024/ABS/143	Physiochemical responses of marine bacterium exposed to different levels of polystyrene nanoplastics: Insights into oxidative stress and biofilm modulation.		
7	WOSC/2024/ABS/152	Biodiversity of halophilic bacteria from the regions of Marakkanam, Tamil Nadu and its biomedical applications		
8	WOSC/2024/ABS/193	Isolation of UV-protecting biomolecule microsporin-like amino acids from marine Cyanophycean algae		
9	WOSC/2024/ABS/199	High dominance of thermal tolerant Symbiodiniaceae genotypes from a marginal, turbid reef of India: A potential adaptive strategy		

Subtheme 10
Marine biodiversity and ocean ecosystem
Session 5 Time & Date: 11:30- 13:00 IST, 29 February 2024
Oral presentations: 6; Poster+Flash presentation: 0; Poster presentation:9
Venue: Raman

Oral presentation

Serial No	Abstract Id	Abstract Title	Author Name	Co Author Names
1	WOSC/2024/ABS/241	An account on microplastic ingestion by zooplankton community in the coral reef lagoons of Lakshadweep archipelago		
2	WOSC/2024/ABS/198	Arctic Ecosystems in a Changing Climate: Biodiversity Consequences and the Blue Economy's Role		
3	WOSC/2024/ABS/361	Enhancing Climate Resilience of India's Coastal Communities		
4	WOSC/2024/ABS/291	Charting the Future of Chilika's Seagrass: Insights, Challenges, and Conservation Solutions		
5	WOSC/2024/ABS/252	Species distribution modeling of small pelagic fishery in the north Indian Ocean towards securing livelihood.		
6	WOSC/2024/ABS/122	Microbiome characterization of a marine bivalve mollusc <i>Amygdalum</i> sp. from Seamounts of Arabian Sea		

Poster presentation

Serial No	Abstract Id	Abstract Title	Author Name	Co Author Names
1	WOSC/2024/ABS/290	Association between pelagic fish catch and the recurrence of upwelling in monthly time lag in the Gujrat Coast		
2	WOSC/2024/ABS/342	Impact of monsoonal rainfall on the PLB (pelagic larvae of benthic invertebrates) along the coastal waters of megacity Mumbai, India		
3	WOSC/2024/ABS/304	Phytoplankton composition in the seasonal suboxic/anoxic waters of the Western continental shelf of India		
4	WOSC/2024/ABS/295	Ichthyoplankton abundance and distribution in the eastern Arabian Sea during the early monsoon period		
5	WOSC/2024/ABS/320	Mesozooplankton community of the Deep Scattering Layer in the Eastern Arabian Sea		
6	WOSC/2024/ABS/318	Seasonal and spatial variation of rocky intertidal seaweeds of Konkan coast, India		
7	WOSC/2024/ABS/234	Ghost Fishing Gear - A Multifaceted Risk to the Coral Reefs along India's Southeast Coast.		
8	WOSC/2024/ABS/232	Direct Transplantation of reef-building corals to enhance the structural complexity of degraded reefs in Palk Bay of Southeast Coast of India		
9	WOSC/2024/ABS/245	Underwater Optical communication method for preserving the Marine Ecosystem		

Subtheme 10
Marine biodiversity and ocean ecosystem
Session 6 Time & Date: 14:00- 15:30 IST, 29 February 2024
Oral presentations: 7; Poster+Flash presentation: 0; Poster presentation:9
Venue: Raman

Oral presentation

Serial no	Abstract Id	Abstract Title	Author Name	Co Author Names
1	WOSC/2024/ABS/275	A STUDY ON IMPACT OF GLOBAL PANDEMIC ON SEA TURTLE NESTING ALONG NORTHERN COASTAL KARNATAKA AND SOUTH GOA		
2	WOSC/2024/ABS/91	Vocalization of bottlenose dolphin		
3	WOSC/2024/ABS/129	Preliminary Observations on the Composition and Vertical Migration of Thecosome Pteropods in the Eastern Arabian Sea		
4	WOSC/2024/ABS/183	Bacteriorhodopsin producing Haloarchaea from the tide pools of Tuticorin coast.		
5	WOSC/2024/ABS/209	Coliform plumes along the riverine-coastal continuum in the south-west coast of India		
6	WOSC/2024/ABS/310	Abundance of bacterial population along the Visakhapatnam coastal water during pre-monsoon season 2023		
7	WOSC/2024/ABS/343	A Baseline Study on Comparative Marine microbial diversity in Mahatma Gandhi Marine National Park and around Port Blair municipal city, Andaman Islands using Metagenomic approaches		

Poster presentation

Serial No	Abstract Id	Abstract Title	Author Name	Co Author Names
1	WOSC/2024/ABS/250	Impact of Anthropogenic Activities on the Microplastic Concentration in Copepods in the Southwestern Bay of Bengal		
2	WOSC/2024/ABS/296	TIME SERIES ANALYSIS OF CORAL REEF AREA IN SHALLOW WATER OFF THE COAST OF RANGHAT AREA IN ANDAMAN AND NICOBAR ISLAND USING SENTINEL-2 MSI DATA		
3	WOSC/2024/ABS/387	Unravelling benthic meiofaunal community dynamics: A morpho-functional approach in Indian estuaries with variable anthropogenic influence		
4	WOSC/2024/ABS/195	Advancing the Blue Economy: Building a Resilient and Sustainable Tomorrow		
5	WOSC/2024/ABS/441	Exploring Diversity of Pathogenic Bacteria Along the Indian Coast through Metagenomics Analysis		
6	WOSC/2024/ABS/332	Comparative analysis of Microbiomes and their Functional profiles from Blue Carbon Ecosystems of Goa		
7	WOSC/2024/ABS/347	Study of marine microbial diversity on micro plastics and its biodegradation effects		
8	WOSC/2024/ABS/472	Unlocking Antimicrobial Potential: Exploring bacterial diversity in the Indian Sector of the Southern Ocean for novel drug discovery		

9	WOSC/2024/ABS/199	High dominance of thermal tolerant Symbiodiniaceae genotypes from a marginal, turbid reef of India: A potential adaptive strategy		
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