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**IOC Regional Committee for the Central Indian Ocean (IOCINDIO)**

**The Third Phase of Workshop Series on**

**The Effects of Climate Change on the Indian Ocean Marine Environment**

**20-22 February 2023**

**Tehran, Islamic Republic of Iran**

**09:00-16:30 (Iran Standard Time – GMT +3:30)**

**AGENDA**

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| **Day 1- Monday- 20 February 2023** |
| 09:00- 10:00 | **Opening Ceremony:*** **Opening remarks by:**

-The Workshop Secretary -The IORA Secretariat Representative / WGBE Representative (TBC)-The President of IROST -The Director of INIOAS |
| 10:00- 10:30 | *Coffee Break* |
| **Panel 1- Deoxygenation and Biogeochemical cycling** |
| 10:30- 11:10 | **Deoxygenation in the Northwestern Indian Ocean** By: Dr. Wajih Naqvi, Department of Earth Sciences, Indian Institute of Technology, Kanpur, India |
| 11:10- 11:50 | **Nutrient biochemistry in marginal seas of northwestern Indian Ocean under climate change**By: Dr. Hamid Ershadifar, INIOAS, Iran |
| 11:50- 12:00 | **Q & A** |
| **Panel 2- Paleoclimatic Studies** |
| 12:00- 12:40 | **Early Holocene Flooding of the Persian Gulf and Intensification of the Indian Ocean Monsoon**By: Dr. Abdolmajid Naderi, INIOAS, Iran |
| 12:40- 14:00 | *Lunch* |
| 14:00- 14:40 | **Impact of Holocene Indian summer monsoon oscillations on South East Iranian Plateau**By: Dr. Mohammad Ali Hamzeh, INIOAS, Iran |
| 14:40 – 14:50 | **Q & A** |
| **Panel 3 - Atmospheric characteristic of the Indian Ocean** |
| 14:50- 15:30 | **The long-term variability of meteorological parameters over the Indian Ocean**By: Dr. Parvin Ghaffarian, INIOAS, Iran |
| 15:30- 16:10 | **Relationship between climatic indices and TC characteristics over the Indian Ocean**By: Dr. Nafiseh Pegahfar, INIOAS, Iran |
| 16:10- 16:20 | **Q & A** |

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| Day 2- Tuesday- 21 February 2023 |
| **(Continued) Panel 3- Atmospheric characteristic of the Indian Ocean** |
| 9:00- 9:30 | **El Nino flavors and their linkage to the Indian Ocean Dipole** By: Dr. Omid Alizadeh Choobari, University of Tehran, Institute of Geophysics, Iran |
| 09:30 – 09:35 | **Q & A** |
| **Panel 4- Primary Productivity and Fisheries &****Climate Change and Marine Migratory Species** |
| 09:35- 10:05 | **Marine Primary Production in the North Indian Ocean: Implication of Climate Change** By: Dr. Sanjiba Kumar Baliarsingh, Scientist , Applied Research and Research to Operations (ARO) Division, Ocean Modeling, Applied Research & Services (OMARS) Group, Indian National Centre for Ocean Information Services (INCOIS), India  |
| 10:05– 10:30 | *Coffee Break* |
| 10:30- 11:00 | **The effects of climate change on the alien and invasive marine species migration behavior, in the NW Indian Ocean Seas**By: Dr. Fereidoun Owfi, Academic member, Director of Marine Ecology Division, Iranian Fisheries Science and Research Institute, Iran |
| 11:00 – 11:30 | **Critical implications of climate change for marine migratory species i.e. sea turtles and tuna species****Proposed by Sri Lanka****Prof. Wasantha Rathnayake, PhD****Vice Chancellor****A Working Group Member of IORA****Ocean University of Sri Lanka** |
| 11:30 – 11:40 | **Q & A** |
| **Panel 5- Sensitive marine ecosystems of the Indian Ocean** |
| 11:40 – 12:10 | **The fate of coral reefs of the marginal sea "the Persian Gulf" under the changing climate**By: Dr. Mohammad Reza Shokri, Shahid Beheshti University, Iran |
| 12:10 – 12:20 | **Q & A** |
| 12:20 – 14:00 | **Lunch** |
| **Panel 6- Physical Oceanography and climate change** |
| 14:00 – 14:30 | **Impact of climate change on the marine heatwaves of the Indian Ocean** By: Dr. Abhisek Chatterjee, Scientist 'E', Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, India |
| 14:30 – 15:00 | **Climate change in the Indian Ocean and the need for improved observations and predictions**By: Dr. Roxy Mathew Koll, Scientist, Centre for Climate Change Research, Indian Institute of Tropical Meteorology, Ministry of Earth Sciences, India |
| 15:00 – 15:10 | **Q & A** |
| **Panel 7- Marine and Coastal Adaption and Mitigation Measures for Climate Change** |
| 15:10 – 15:40 | **Topic 1: To be proposed by South Africa / WGBE** |
| 15:40 – 16:10 | **Topic 2: To be proposed by South Africa / WGBE** |
| 16:10 – 16:20 | **Q & A** |

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| Day 3- Wednesday- 22 February 2023 |
| 09:00-11:00 | **Review and finalizing the Workshop Declaration by all the participants****Note: The draft declaration will be handed out among all the participants before or in the beginning of the Workshop.**  |
| 11:00- 12:00 | **Closing Ceremony:****Closing remarks by:**-The Workshop Scientific Secretary -The IORA Secretariat Representative / WGBE Representative (TBC)-The Director of IORA RCSTT |
| **12:00- 13:00** | **Lunch** |
| **13:00- 20:00** | **Sightseeing in Tehran** |