# Limited distribution IOC/IODE-28/4.2

Oostende, 12 November 2024

Original: English

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# **INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION**

# **(of UNESCO)**

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# **Twenty-eighth Session of the IOC Committee on International Oceanographic Data and Information Exchange (IODE-28)**

# **12-14 March 2025**

**IODE MENTORING**

IODE mentoring aims to foster international collaboration among NODCs, ADUs, and AIUs to develop the capacity of IOC Member States to share ocean data globally complying with quality assurance procedures and standards (reference: IODE Quality Management Framework). This mentoring responds to the needs identified by the Committee to increase the number of accredited NODCs, ADUs, and AIUs, and to provide guidance to national data centres being established or seeking accreditation. IODE mentoring recognizes the value and expertise within the network, that can be leveraged to assist other data centres in establishing organizational quality management systems for the delivery of oceanographic and related data, products, and services.

Such assistance can consist of:

(i) answering questions on "how to";

(ii) undertaking a visit to the (candidate) NODC to meet with staff and to provide advice;

(iii) hosting staff of the new NODC so they can acquire the necessary hands-on experience in ocean data management;

(iv) participating as lecturer in relevant (OTGA) courses.

In 2024, IODE has carried out the following mentoring activities:

* Call for *IODE NODC mentoring: Helping other member states with the establishment of an NODC or ADU*, sent to NODC Ireland, UK, Portugal, Colombia, Argentina, India, and Malaysia on 15 March 2024.

Replies were received from Mr. Mark Hebden NODC UK, Mr. Uday Bhaskar T V S NODC India, Mr. Telmo Geraldes Dias NODC Portuguese, Mr. Alvaro Santiago Scardilli NODC Argentina, and Mrs. Ruby Ortiz NODC Colombia.

* NODCs hosting a staff of a new NODC:

NODC Argentina hosted and mentored the data manager of Servicio de Oceanografía, Hidrografía y Meteorología de la Armada de Uruguay, which is undergoing the process of creating a national oceanographic data center. Mentorship was carried out between September and December 2024 and included guidance and training on quality control standards, database operation, GIS functions, and data management. This action was co-sponsored by OTGA RP funds (USD 8000,00).

It is important to highlight that NODC India, ADU OBIS Australia, and ADU OBIS-Deep Sea also hosted staff from data centres, but not with the aim of mentoring to starting a new NODC. This will be reported in item 4.3 IOC Ocean Training Internship.

* NODCs participating as a lecturer in OTGA training courses:

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| **NODC** | **Lecturer(s)** | **OTGA Course** |
| Argentina | Mr. Alvaro Scardilli  Mrs. Lucía Cattana  Mrs. María Eugenia Goya | Introducción a la geología y minería de fondos marinos |
| Mr. Alvaro Scardilli  Mrs. Soledad Tiranti | Observador de Hielo Marino y Témpanos |
| Belgium (VLIZ) | Mrs. Leen Vandepitte  Mrs. Katrina Exter  Mrs. Laurian Van Maldeghem  Mrs. Marie Robberecht  Mrs. Charlotte Dhondt  Mr. Ruben Perez Perez | Ocean Data Management 2024 |
| Mrs. Laura Marquez  Mrs. Leen Vandepitte  Mrs. Lynn Delgat  Mrs. Charlotte Dhondt  Mrs. Patricia Cabrera  Mrs. Carolien Knockaert  Mr. Ruben Perez  Mr. Salvador Fernandez  Mrs. Stefanie Dekeyzer  Mr. Wim Decock  Mr. Cyril Radermecker | Biological Data Management |
| China | Mrs. Wan Fangfang | Quality assurance of marine blue carbon and measurements inter-comparison |
| India | Mr. R. S. Mahendra  Mr. Prakash C Mohanty  Mr. H. Shiva Kumar  Mr. V. Chandra Sekhar  Mr. N. Kiran Kumar | Coastal Vulnerability Mapping and analysis using QGIS |
| Mr. Alakes Samanta  Mr. H. Shiva Kumar  Dr. Sanjiba Baliarsingh  Dr. Aneesh Lotliker | Ocean Colour Remote Sensing - Data, Processing and Analysis 2024 |
| Ireland | Mr. Rob Thomas | Quality Management System Essentials for NODCs and ADUs 2024 |
| Kenya | Mr. Harrison Uganda  Mrs. Mary Ontomwa | Training on the Implementation of FAIR Principles to African Marine and Coastal Data |
| Mozambique | Mrs. Clousa Maueua | Análise de dados para gestão costeira |
| United Kingdom | Mrs. Lesley Rickards  Mr. Mark Hebden | Quality Management System Essentials for NODCs and ADUs 2024 |

* ADUs participating as a lecturer in OTGA training courses:

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| **ADU** | **Lecturer(s)** | **OTGA Course** |
| Caribbean OBIS | Mrs. Ana Carolina Peralta | ADAP Project Training course |
| ADU MEDIN | Mrs. Roseanna Wright  Mr. Colm Walsh | Marine Data Management, Governance and the MEDIN toolset |
| ADU INVEMAR | Mrs. Carolina Garcia  Mrs. Paula Sierra | MangRes: Conservación y restauración de manglares en reservas de biosfera |
| Mr. Cesar A. Bernal | Curso regional de capacitación y entrenamiento sobre medición del sistema de carbonatos para la evaluación del indicador de acidez media del mar (ODS 14.3.1) 2024 |
| Mrs. Diana Romero  Mr. Cristian Montes  Mr. Felipe Valencia  Mr. Omar Lugo  Mr. Santiago Millán  Mrs. Andrea Beltrán  Mr. Leonardo Arias  Mrs. Jhonny Garcés | Tecnologías de información (SIG) aplicado al medio marino y costero 2024 |
| Mrs. Paula Sierra  Mrs. David Alonso  Mrs. Vanessa Yepes-Narvaez  Mrs. Cristina Cedeño-Posso  Mr. Mario E. Rueda Hernández  Mrs. Anny Paola Zamora  Mrs. Andrea Contreras  Mrs. Carolina García Valencia  Mrs. Milena Hernández Ortíz | Datos e información para el manejo de Áreas Marinas Protegidas 2024 |
| Mr. Roberto E. Lastra  Mrs. Paula C. Sierra  Mrs. Anny P. Zamora  Mrs. Milena Hernández  Mrs. Carolina García | Manejo Integrado de la Zona costera y Planificación Espacial Marina |

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