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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 ScardilliMrs. Lucía CattanaMrs. María Eugenia Goya | Introducción a la geología y minería de fondos marinos |
| Mr. Alvaro ScardilliMrs. Soledad Tiranti | Observador de Hielo Marino y Témpanos |
| Belgium (VLIZ) | Mrs. Leen VandepitteMrs. Katrina Exter Mrs. Laurian Van MaldeghemMrs. Marie RobberechtMrs. Charlotte Dhondt Mr. Ruben Perez Perez | Ocean Data Management 2024 |
| Mrs. Laura MarquezMrs. Leen VandepitteMrs. Lynn DelgatMrs. Charlotte DhondtMrs. Patricia CabreraMrs. Carolien KnockaertMr. Ruben PerezMr. Salvador FernandezMrs. Stefanie Dekeyzer Mr. Wim DecockMr. Cyril Radermecker | Biological Data Management |
| China | Mrs. Wan Fangfang | Quality assurance of marine blue carbon and measurements inter-comparison |
| India  | Mr. R. S. MahendraMr. Prakash C MohantyMr. H. Shiva KumarMr. V. Chandra SekharMr. N. Kiran Kumar | Coastal Vulnerability Mapping and analysis using QGIS |
| Mr. Alakes SamantaMr. H. Shiva KumarDr. Sanjiba BaliarsinghDr. 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 UgandaMrs. 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 RickardsMr. 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 WrightMr. Colm Walsh | Marine Data Management, Governance and the MEDIN toolset |
| ADU INVEMAR | Mrs. Carolina GarciaMrs. 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 RomeroMr. Cristian MontesMr. Felipe ValenciaMr. Omar LugoMr. Santiago MillánMrs. Andrea BeltránMr. Leonardo AriasMrs. Jhonny Garcés | Tecnologías de información (SIG) aplicado al medio marino y costero 2024 |
| Mrs. Paula SierraMrs. David AlonsoMrs. Vanessa Yepes-NarvaezMrs. Cristina Cedeño-PossoMr. Mario E. Rueda Hernández Mrs. Anny Paola ZamoraMrs. Andrea ContrerasMrs. Carolina García ValenciaMrs. Milena Hernández Ortíz | Datos e información para el manejo de Áreas Marinas Protegidas 2024 |
| Mr. Roberto E. LastraMrs. Paula C. SierraMrs. Anny P. ZamoraMrs. Milena HernándezMrs. Carolina García | Manejo Integrado de la Zona costera y Planificación Espacial Marina |

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