

17th

SESSION IOCARIBE



unesco

Intergovernmental
Oceanographic
Commission

Sub-Commission for the Caribbean
and Adjacent Regions

Subcomisión para el Caribe y
Regiones Adyacentes

**Bogotá,
Colombia
May 08 - 11,
2023**

  @IocUnesco | @Iocaribeocean

ioc.unesco.org | iocaribe.ioc-unesco.org



GOBIERNO DE COLOMBIA



unesco
Comisión Nacional
de Cooperación con la UNESCO



COMISIÓN
COLOMBIANA
DEL OCEANO

17th SESSION IOCARIBE

OTGA: DELIVERING CAPACITY DEVELOPMENT FOR REGION



unesco

Intergovernmental
Oceanographic
Commission

Sub-Commission for the Caribbean
and Adjacent Regions

Subcomisión para el Caribe y
Regiones Adyacentes

**PAULA CRISTINA SIERRA-CORREA, IODE-IOC
Co-CHAIR**

GREG REED, OTGA

**Bogotá, Colombia
May 08 - 11, 2023**



GOBIERNO DE COLOMBIA



COMISIÓN
COLOMBIANA
DEL OCEANO

ioc.unesco.org | iocaribe.ioc-unesco.org



@IocUnesco

@Iocaribeocean

17th

SESSION IOCARIBE



unesco

Intergovernmental
Oceanographic
Commission

Sub-Commission for the Caribbean
and Adjacent Regions

Subcomisión para el Caribe y
Regiones Adyacentes

Bogotá, Colombia
May 08 - 11, 2023

6.3.1 OTGA: DELIVERING CAPACITY DEVELOPMENT FOR REGION

PAULA CRISTINA SIERRA-CORREA,
IODE-IOC Co-CHAIR

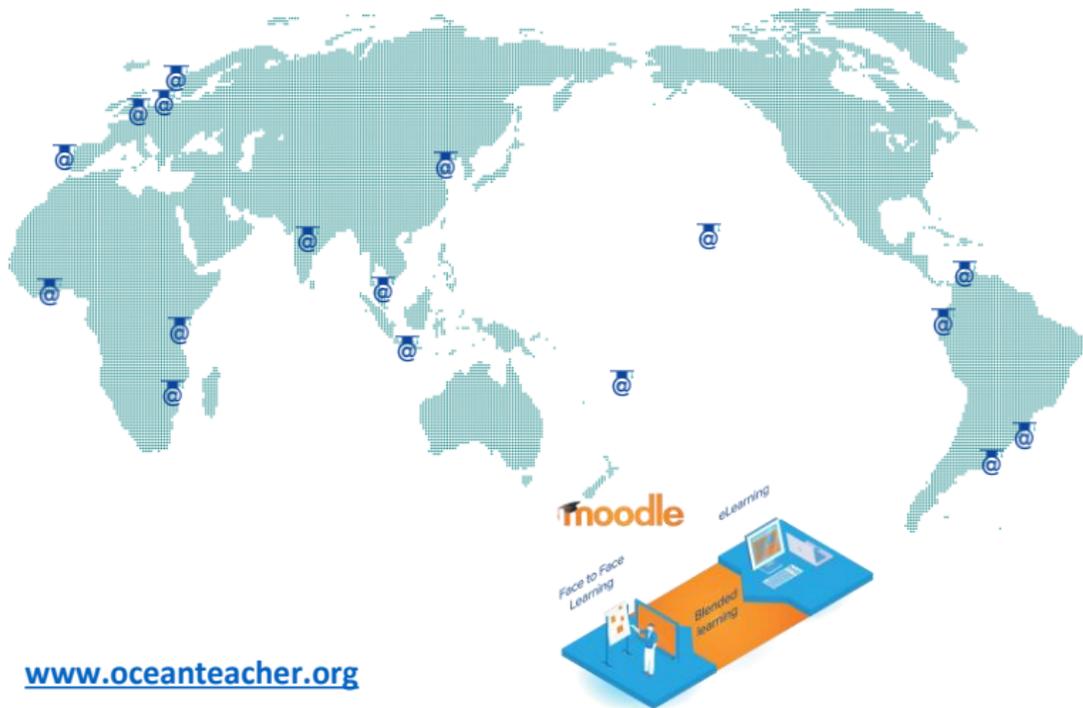
GREG REDD, OTGA



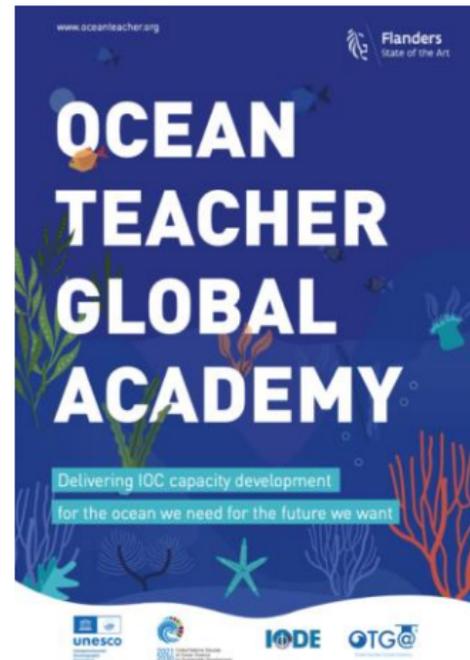
GOBIERNO DE COLOMBIA



COMISIÓN
COLOMBIANA
DEL OCEANO



www.oceanteacher.org



OTGA: Supporting UN processes

The Science We Need for the Ocean We Want



- UN Agenda 2030 and its Sustainable Development Goals
- UN Decade of Ocean Science for Sustainable Development (2021-2030)

ACTIONS

Meet all the endorsed Ocean Decade Actions



OTGA: Global training hub

OTGA provides education and training for managers and researchers

OTGA provides open educational resources and online learning

OTGA makes its quality training resources openly available

OTGA can deliver training in four languages

OTGA offers free online, blended and classroom courses and modules



OTGA in the America Region



UNIVERSIDADE FEDERAL
DE SANTA CATARINA

**University of Santa
Catarina (UFSC)**

Brazil/Uruguay



UNIVERSIDAD
DE LA REPÚBLICA
URUGUAY

**University of Uruguay
(UdelAR)**



**Escuela Superior
Politécnica del Litoral
(ESPOL)**

Ecuador



**Escuela de Ciencias del
Mar**

Argentina



**Marine and Coastal
Research Institute in
Colombia (INVEMAR)**

Colombia



**International
Tsunami Information
Center (ITIC)**

USA



OTGA: Course in the Region

2023 courses

08 Feb - 28 Feb	IOC/OTGA/STC Argentina / Iniciativa Pampa Azul (online) : Microbiología y Biogeoquímica Marina Attendance by application	Argentina
07 Mar - 24 Mar	IOC/OTGA/STC Argentina / CONICET / IADO : Métodos de Oceanografía Geológica y Física en Ambientes Costeros Attendance by application	Argentina
12 Jun - 16 Jun	IOC/OTGA/STC Argentina: Observador de Hielo Marino y Témpanos [virtual] Attendance by application	Argentina
30 May - 03 Jun	IOC/OTGA - STC Buenos Aires, Argentina and Escuela de Ciencias del Mar (Facultad de la Armada Universidad de la Defensa Nacional), Argentina) : Observador de Hielo Marino y Témpanos Attendance by application	Argentina

2022 courses

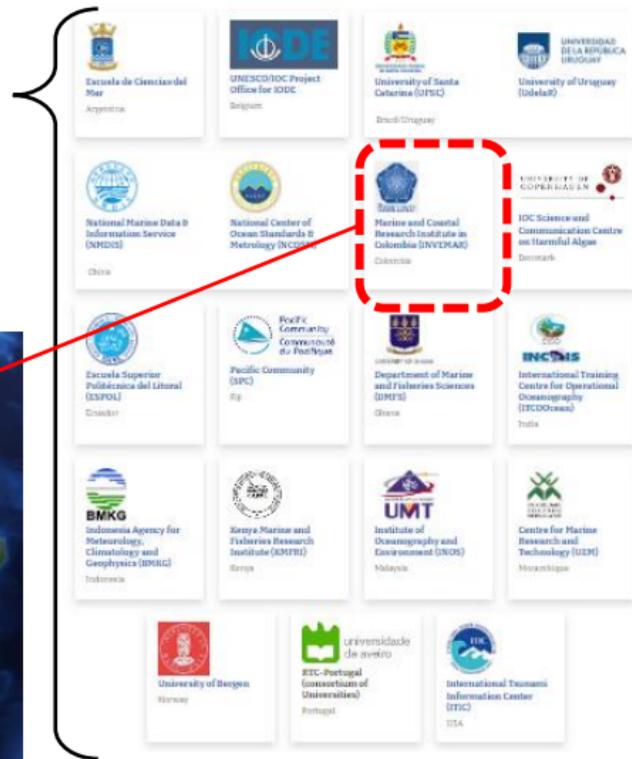
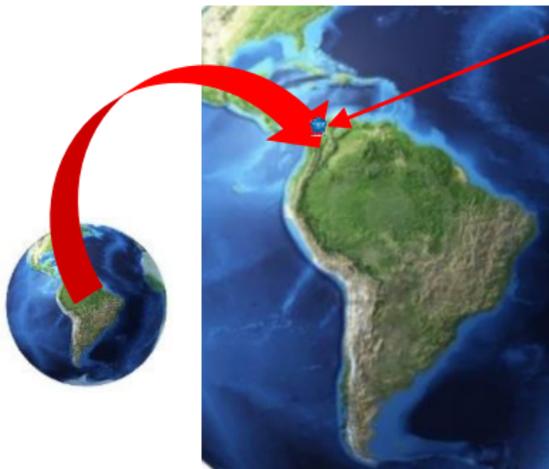
03 May - 23 May	IOC/OTGA - STC Buenos Aires, Argentina and Comisión Nacional del Límite Exterior de la Plataforma Continental (COPLA, Argentina) : Determinación del Límite Exterior de la Plataforma Continental Attendance by application	Argentina
23 May - 08 Jul	IOC/OTGA - ConoSur (Brazil/Uruguay): Universidade Federal de Santa Catarina/Universidad de la República/Universidade dos Açores/Swedish Agency for Marine and Water Management : Planificación Espacial Marina y Costera / Planeamento do Espaço Marinho e Costeiro (PEMC) Attendance by application	
30 May - 03 Jun	IOC/OTGA - STC Buenos Aires, Argentina and Escuela de Ciencias del Mar (Facultad de la Armada Universidad de la Defensa Nacional), Argentina) : Observador de Hielo Marino y Témpanos Attendance by application	Argentina
13 Jun - 24 Jun	IOC/OTGA/INVEVAR: Climate change: Blue carbon and Ecosystem- based Adaptation in Marine and Coastal [online] : Cambio Climático: Carbono Azul y adaptación basada en ecosistemas marinos y costero Attendance by application	Santa Marta, Colombia
01 Aug - 01 Sep	IOC/OTGA & INVEVAR : Tecnologías de información (SIG) aplicado al Medio Marino y Costero. Caso de estudio: Determinación de zonas de conservación con ArcGIS (ONLINE) Attendance by application	Santa Marta Colombia
22 Aug - 02 Sep	IOC/OSS/OTGA/INVEVAR : 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). Attendance by application	Colombia
03 Oct - 31 Oct	Curso-Taller REDCAM 2022 : IOC/OTGA/INVEVAR: Curso de estresores marinos y costeros: herramientas para la gestión de la calidad ambiental marina.Énfasis en contaminación por microplásticos Attendance by invitation	Colombia
11 Oct - 28 Oct	IOC/OTGA - STC Buenos Aires, Argentina and Comisión Nacional del Límite Exterior de la Plataforma Continental (COPLA, Argentina) : Determination of the Outer Limit of the Continental Shelf Attendance by application	Argentina
01 Nov - 18 Nov	IOC/OTGA/INVEVAR (online) : Áreas Marinas Protegidas Attendance by application	Colombia
07 Nov - 18 Nov	IOC/OTGA - RTC Colombia (INVEVAR) : Data management and publication through the Global Genome Biodiversity Network (GGBN) Attendance by application	Colombia
09 Nov - 23 Nov	IOC/OTGA/RTC Ecuador (ESPOL) : Estuarios tropicales: metodologías y herramientas para un manejo sostenible Attendance by application	Guayaquil, Ecuador

RTC-Colombia located at the Caribbean

Regional Training Center for Latin-American and The Caribbean region since 2014 as a candidate; 2015 designated

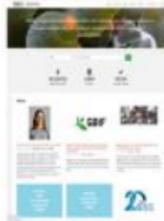
RTC LAC offers online courses:

- Self paced (no tutor assistance)
- Limited in time (or not)
- Facilitated (with tutor assistance)
- Synchronous activities
- Asynchronous activities
- Virtual
- Language: Spanish speakers)



INVMAR Support Initiatives:

Global



OBIS: biodiversity and biogeographic
data and information on marine life

TRANSFER OF MARINE TECHNOLOGY MECHANISMS



TMT / OIH: Clearing House Mechanism

YouTube <https://www.youtube.com/watch?v=20160604040404040404>
vimeo <https://www.vimeo.com/145112223>

Regional



LAOCA: Latin American
Ocean Acidification Network



Caribbean OA, FANs and
Pollution Network



CMA: Caribbean Marine Atlas

- ✓ INVEMAR is the Regional Training Centre-LAC since 2014
- ✓ Ratification on 2020 until now

WTA Capacity Development Strategy

International cooperation:



Flanders
State of the Art



Facts and Figures 2015-2023



Sub-Commission for the Caribbean and Adjacent Regions

Subcomisión para el Caribe y Regiones Adyacentes



Countries

31

Courses

+50

Topics

16

Participants

+1.200



64%

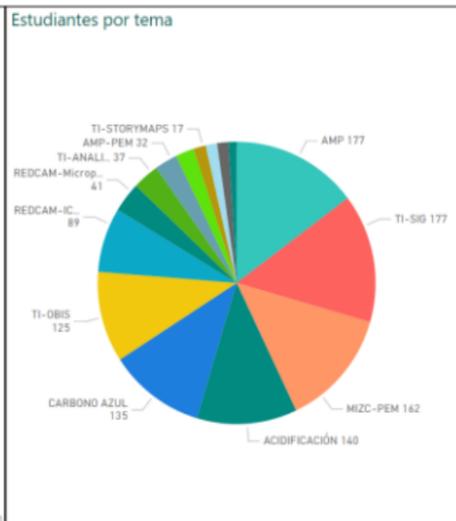
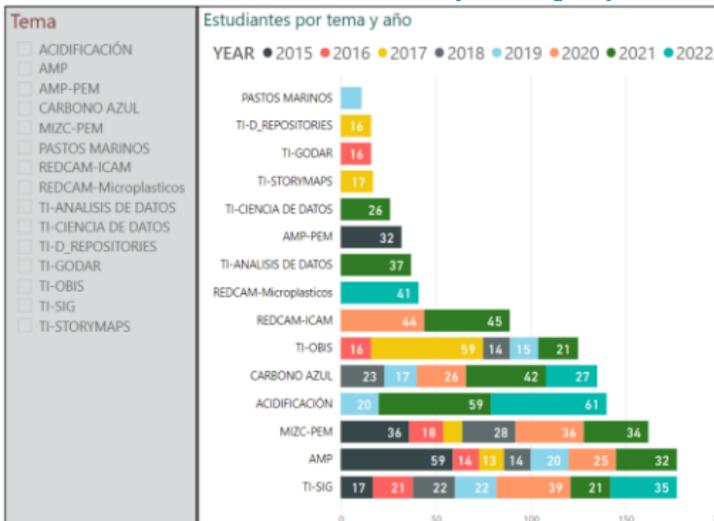


46%

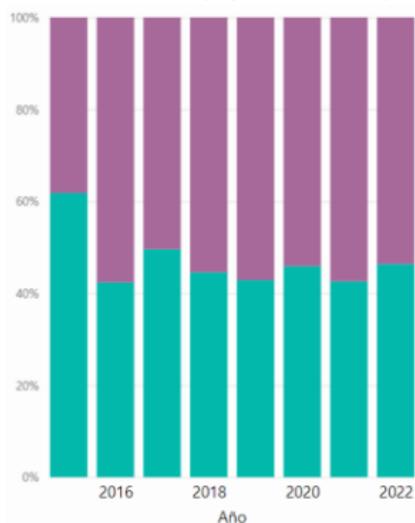
Target audience: Oceanic data and marine information managers and marine environment researchers with training requirements in data management and/or information management



Participants by topic /



Participants by gender per year



OTGA: Contributing to CD in the Region



ONSITE

PEMC_2022

Planificación Espacial Marina y Costera (PEMC)/Planejamento Espacial Marinho e Costeiro (PEMC) 2022

14.5 Marine Spatial Planning

Conseur Training Center Portuguese, Spanish



ONLINE

AMP2022CO

Áreas Marinas Protegidas

14.2 Marine And Coastal Ecosystems,
14.5 Marine Spatial Planning,
14.7 Sustainable Use Of Marine Resources

ODM 2023, Self Paced

Colombia Training Center Spanish



ONLINE

Ocean Data Management 2023

14a Scientific Knowledge And Research

Belgium Training Center English



ONLINE

Estuarios, SP_2022

Estuarios tropicales: metodologías y herramientas para un manejo sostenible

14.2 Marine And Coastal Ecosystems,
14.5 Marine Spatial Planning

Ecuador Training Center Spanish



ONLINE

MOGFAC_SP_2023

Métodos de Oceanografía Geológica y Física en Ambientes Costeros

14.2 Marine And Coastal Ecosystems,
14a Scientific Knowledge And Research

Argentina Training Center Spanish



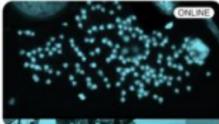
ONLINE

PLASTIC POLLUTION

Contaminación marina por plásticos: de las causas a la gestión/Poluição marinha por plástico: dos condutores à gestão

14.1 Marine Pollution

Conseur Training Center Portuguese, Spanish



ONLINE

MBM_SP_2023

Microbiología y Biogeoquímica Marina

14.2 Marine And Coastal Ecosystems

Argentina Training Center Spanish



ONLINE

TsunamiAware2023

Tsunami Awareness

11.5 Disaster Risk Reduction

Ilic Training Center English



ONLINE

CC_2022

Cambio Climático: Carbono Azul y adaptación basada en ecosistemas marinos y costero

14.2 Marine And Coastal Ecosystems,
14a Scientific Knowledge And Research

Colombia Training Center Spanish



ONLINE

OIH
Ocean InfoHub

OH/ODIS_SP_2023

Implementación de la arquitectura del Sistema de información y datos oceánicos (ODIS)

14.7 Sustainable Use Of Marine Resources,
14a Scientific Knowledge And Research

Belgium Training Center Spanish

Cursos OTGA RTC-LAC 2023

10 al 21 de julio
July 10th to 21th

- Cambio climático: Carbono azul y adaptación basada en ecosistemas marinos y costeros
Climate change: Blue carbon and adaptation based on marine and coastal ecosystems

4 al 22 de sept
September 4th to 22th

- Curso - Taller REDCAM
Course - REDCAM Workshop

18 de sept al 6 de oct
September 18th to October 6th

- Administración de Datos Biogeográficos Marinos- OBIS
Management of Marine Biogeographic Data -OBIS

9 al 27 de octubre
October 9th to 27th

- Áreas Marinas Protegidas
Marine Protected Areas

Primer semestre
de 2024
2024 first half-year

- Acidificación de los océanos
Ocean acidification
- Tecnologías de la Información (SIG) aplicadas al medio marino y costero
Information technologies (GIS) applied to marine and coastal environment

Más información: otga@invemar.org.co - paula.sierra@invemar.org.co

THANK YOU 

MUCHAS GRACIAS 

MERCI BEAUCOUP 