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GOBIERNO  
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cooperación  
española

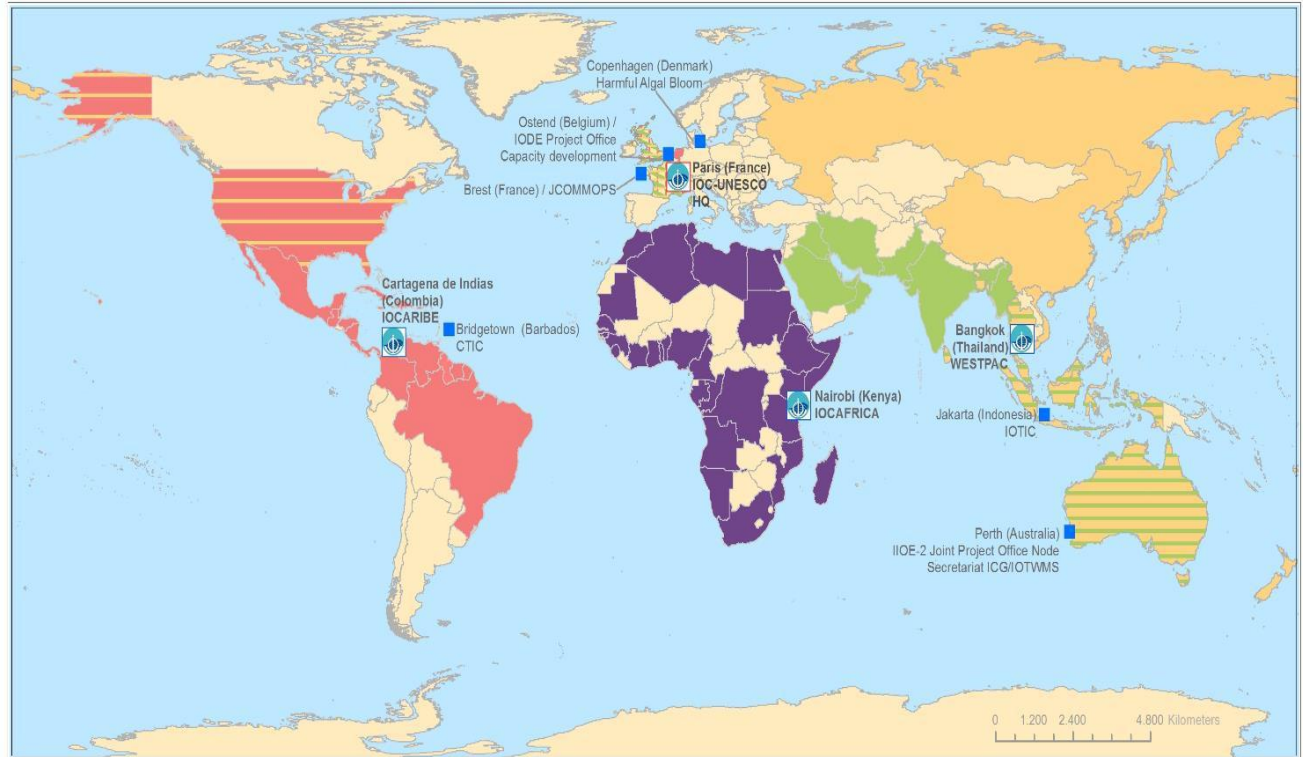
## Hands-on Workshop on “The use of the CCLME Eco-GIS Viewer”

11-13 July 2017

*Santa Cruz de Tenerife, Spain*

## Intergovernmental Oceanographic Commission of UNESCO

### IOC Sub-commissions, Programme and Project Offices



IOC-UNESCO/MPR, 2016

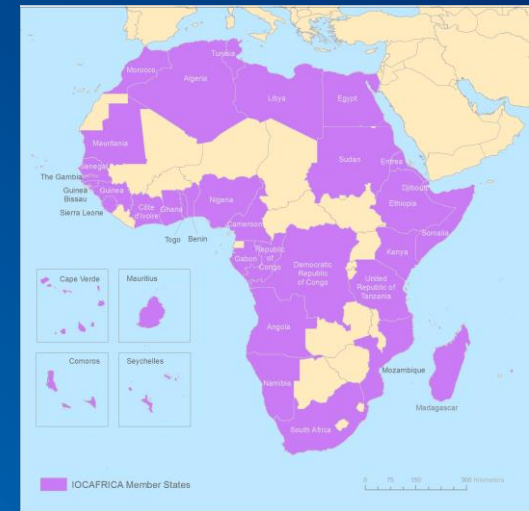
The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the IOC-UNESCO.



# IOCAFRICA Mission

Established July 2011, and officially launched May 2012

*Promote regional and international cooperation for the understanding and management of the African oceans and coastal ecosystems, in order to ensure sustainable development and safety of the coastal populations, taking into account the priorities of Member States from Africa*



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# IOCAFRICA Areas of Focus

1. Ocean Observations and Monitoring
2. Ocean Sciences and Assessments
3. Ocean Data and Information Management
4. Capacity Development in Marine Science and Technology
5. Public Awareness and Science-Policy Interface



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# Ocean Observations and Monitoring

- ✓ Surveys and monitoring of essential oceanographic and meteorological parameters,
- ✓ Inventory of previous ocean related hazards and extreme events (frequency, intensity, etc.) and mapping of vulnerable areas
- ✓ Survey and mapping of marine ecosystems to facilitate and support the development of ecosystem services
- ✓ Establishment the IOCAFRICA Group of Experts on Ocean Observations and Monitoring



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# Ocean Sciences and Assessments

- ✓ Climate change and vulnerability, ocean acidification
- ✓ Ocean modelling and forecasting (including extreme weather events such as storm surges)
- ✓ Monitoring trends in ecosystem degradation
- ✓ Monitoring of Harmful Algal Blooms and biomarker indicators
- ✓ Marine Biodiversity and baseline surveys
- ✓ Marine Spatial Planning to zone different activities
- ✓ Establishment the IOCAFRICA Group of Experts on Ocean Sciences and Assessments to develop a detailed programme for Ocean Sciences and Assessments for the region



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# Ocean Data and Information Management

- ✓ Improving access to ocean data and information
- ✓ Updating the African Coastal and Marine Atlases
- ✓ Developing a marine biodiversity and biogeography programme
- ✓ Preparation of ocean data and information products for Sustainable Development of the Ocean and Coastal regions Updating of the databases created (experts, institutions, and projects)
- ✓ Developing and African Ocean Data portal
- ✓ Establishment the IOCAFRICA Group of Experts on Ocean Data and Information Management



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# Capacity Development

- ✓ Development of an IOCAFRICA Capacity Development portal
- ✓ Continuous professional development for marine scientists from the region
- ✓ Strengthening and development of regional training centers
- ✓ Strengthening ocean science programmes in African Universities Mentorship and programmes targeting youth and female scientists
- ✓ Organize training courses and workshops on the following topics: Operational oceanography, Ocean modeling and forecasting, Marine biodiversity, Marine spatial planning, and Identification of HABs
- ✓ Establishment IOCAFRICA Group of Experts on Capacity Development and Awareness to assist in the development and coordination of relevant activities



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# Public Awareness and Science Policy Interface

- ✓ Support for activities to mark World Ocean Day and African Day of Oceans and Seas
- ✓ Developing partnerships and linkages with other organizations, programmes and projects
- ✓ Public Awareness and advocacy activities
- ✓ Preparation of technical/media briefs on priority issues
- ✓ **Pan African Conference on Marine Sciences and Technology in 2018 (including development of concept note, identification of potential partners, and establishment of scientific committee).**

*The session welcomed the offer of Egypt to host the conference in Sharm El Sheikh.*



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# Opportunities in GMES Africa

**Global Monitoring for Environment and Security in Africa**

**European Union-African Union partnership**

**GMES and Africa support programme objectives**

- ✓ *Consolidating, extending and developing applications for the Water and Natural Resources and the Marine & Coastal Areas Services to adequately provide information to policymakers, scientists, businesses and the public on real time basis,*
- ✓ *Strengthening regional and national capacities to generate and apply EO-based and in-situ information for Water and Natural Resources and the Marine & Coastal Areas Services,*
- ✓ *Raising public awareness on the critical role of Earth Observation in sustainable development; and*
- ✓ *Developing a framework for promoting intra-African collaboration and open access to data for Water and Natural Resources and the Marine & Coastal Areas Services.*



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# Grant Allocation topics

1. Water & Natural Resources service
2. Marine and Coastal Areas service

## MARINE AND COASTAL AREA SERVICES:

**Component 1: Monitoring and Forecasting of Oceanography Variables**

**Component 2: Coastal Area Monitoring**

**Component 3: Ship Traffic and Pollution monitoring**

**Component 4: Marine Weather Forecast**



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# Component 1: Monitoring and Forecasting of Oceanography Variables

Theme	Applications proposed
Theme 1: Monitoring and Forecasting of Physical and Biological Oceanography Variables	Monitoring and forecasting of physical and biological oceanography variables
Theme 2: Fisheries Resources Management and Protection	M121- Existing Fishing Zones Monitoring and Protection
	M122- New Aquaculture Site Monitoring and Protection



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# Component 2: Coastal Area Monitoring

Theme 1: Coastal Vulnerability

M211- Existing  
Coastal Vulnerability

Theme 2: Coastal Ecosystems  
Mapping and Monitoring

M221- New  
Coastal Ecosystems  
Mapping, Monitoring and  
Assessment



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# Component 3: Ship Traffic and Pollution monitoring

Theme 1: Ship Traffic monitoring

M311- New  
Ship Traffic Monitoring

Theme 2: Oil spills Monitoring and Warning

M321- New  
Oil Spills Monitoring and  
Warning



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# Component 4: Marine Weather Forecast

Theme 1: Regional Marine  
Weather Forecast

M411- Existing  
3 days Marine Weather  
Forecast



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# Geographic regions

**North Africa** (Morocco, Algeria, Tunisia, Libya, Egypt, Mauritania, Sahrawi Republic)

**West Africa** (Senegal, Gambia, Guinea Conakry, Guinea Bissau, Liberia, Sierra Leone, Ivory Coast, Ghana, Togo, Benin, Nigeria, Cabo Verde, Mali, Burkina, Niger).

**Central Africa** (Chad, Central Africa, Cameroon, Gabon, Equatorial Guinea, Congo Brazzaville, Congo RDC, Burundi, Sao Tome & Principe)

**Southern Africa** (Angola, Namibia, South Africa, Lesotho, Mozambique, Swaziland, Zambia, Zimbabwe, Botswana, Malawi,)

**East Africa** (Sudan, South Sudan, Eritrea, Djibouti, Ethiopia, Uganda, Kenya, Rwanda, Somalia, Tanzania, Madagascar, Mauritius, Seychelles, Comoros)



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**FUNDING AVAILABLE: €17,500,000.00. This amount will be issued in two lots:**

**Lot 1 – Water and Natural Resources Service**

**Lot 2 – Marine and Coastal Resources Service**

**SIZE OF GRANTS:**

- a) **Minimum amount: €1,000,000**
- b) **Maximum amount: €2,000,000**

**Deadline for the submission of proposals is  
August 21<sup>th</sup>, 2017**

**[www.au.int/gmesafrica/2017call](http://www.au.int/gmesafrica/2017call)**



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