



16th Global Meeting of the Regional Seas Conventions and Action Plans

United Nations
Educational, Scientific and
Cultural Organization

Organisation
des Nations Unies
pour l'éducation
la science et la culture

Organización
de las Naciones Unidas
para la Educación
la Ciencia y la Cultura

Организация
Объединенных Наций по
вопросам образования
науки и культуры

• Intergovernmental
Oceanographic
Commission

• Commission
océanographique
intergouvernementale

• Comisión
Oceanográfica
Intergubernamental

• Межправительственная
океанографическая
комиссия

IOC and Regional Seas: Potential collaboration for sustainable development in post 2015 agenda

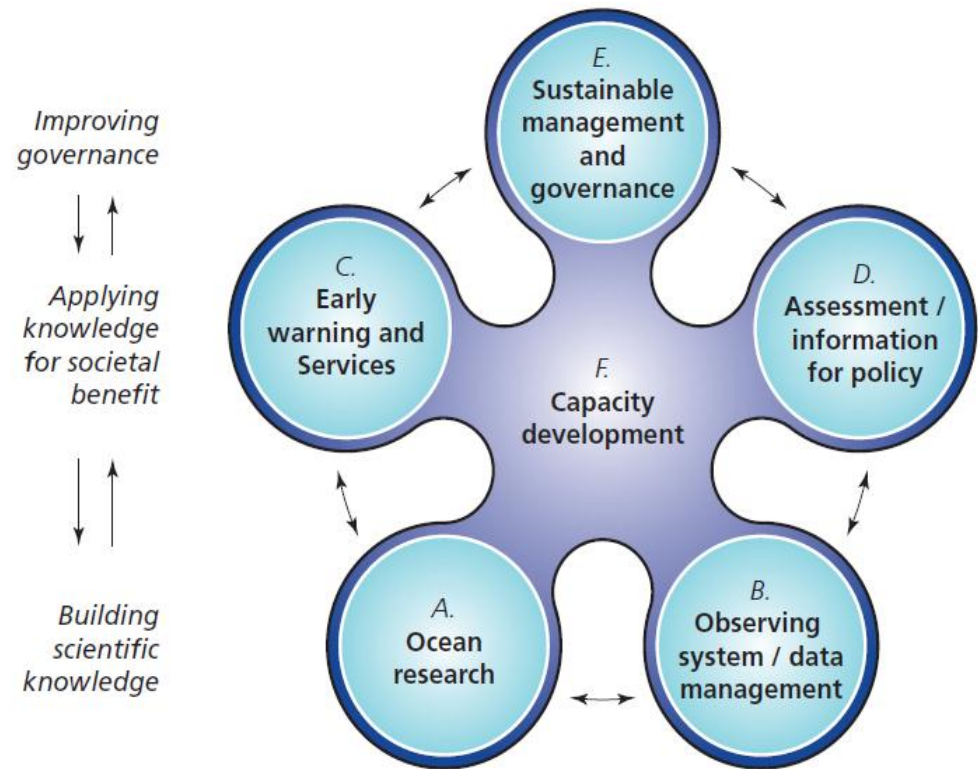


Marine Policy and Regional Coordination Section
Section de Politique Maritime et de la Coordination Régionale
Sección de Política Marítima y de Coordinación Regional

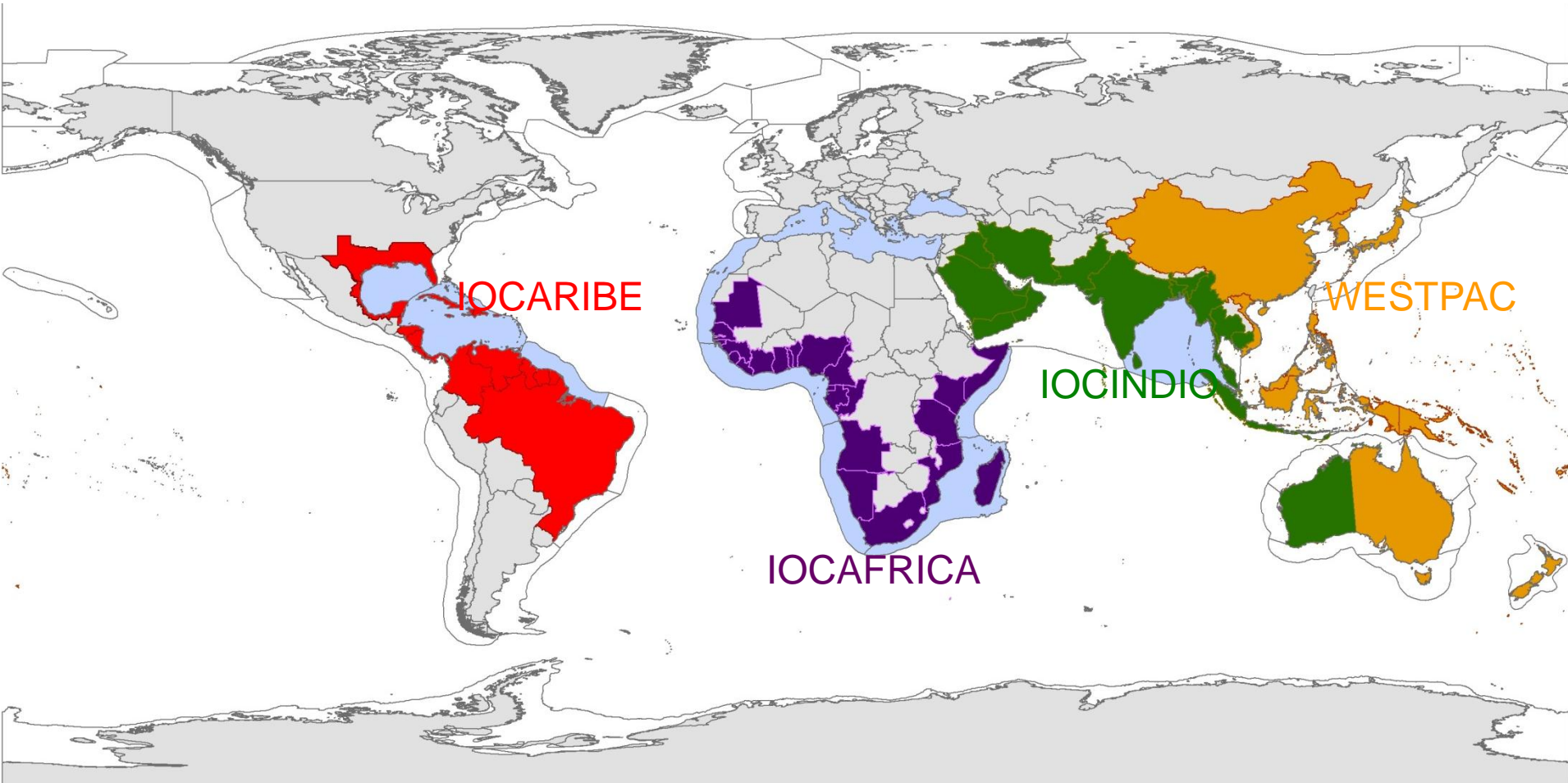
Julian Barbrière
29 Sep – 1 Oct 2014 – Athens, GR

Intergovernmental Oceanographic Commission UNESCO

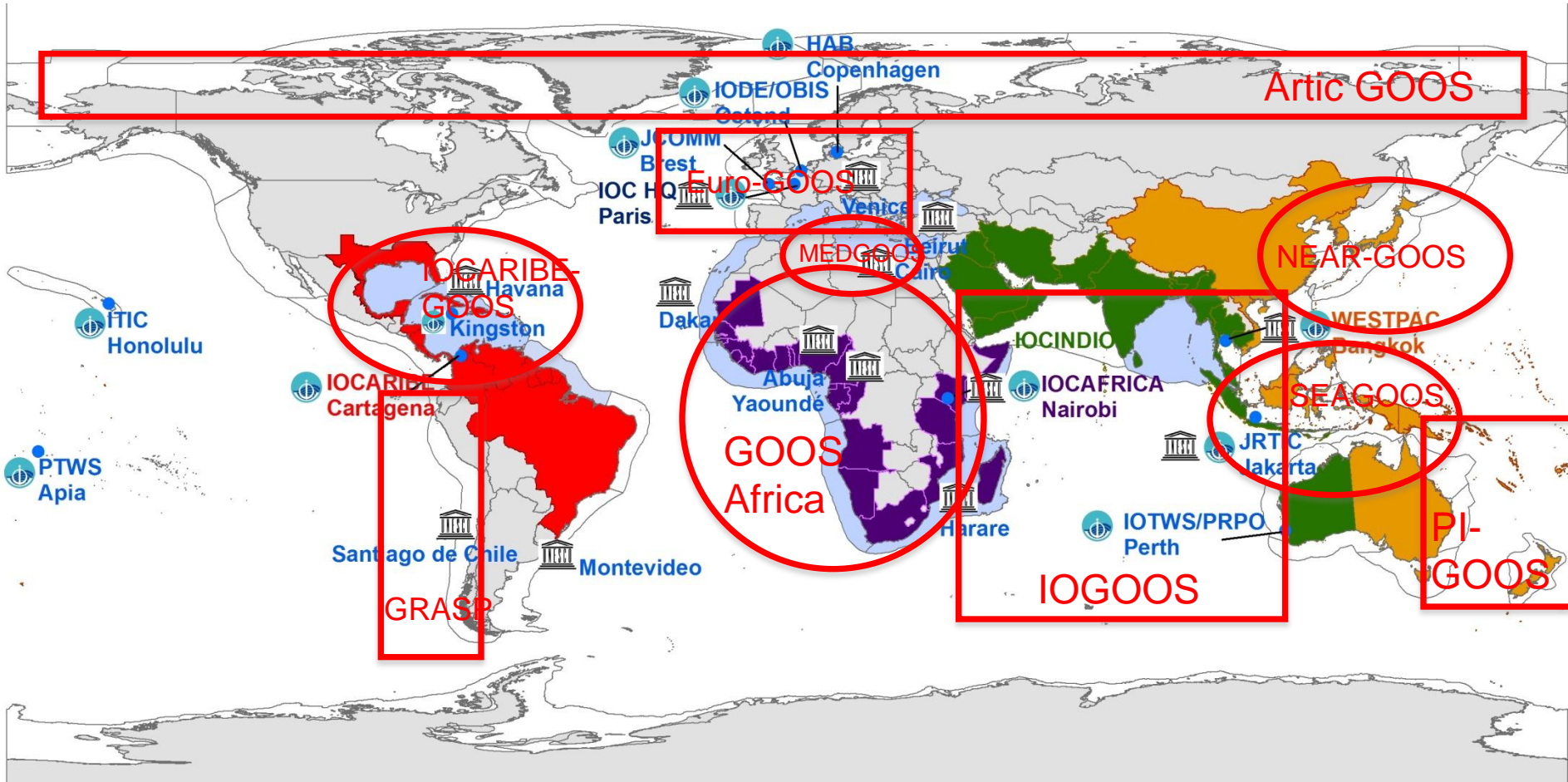
- Established in 1960
- Only intergovernmental organization mandated to promote marine science in all ocean basins
- Science, services, observations, data exchange and capacity development
- Foster sustainable development of the marine environment



IOC Regional Sub-Commissions and Committees



IOC Regions + Thematic Networks



Example of regional cooperation

Cartagena Conv/IOCARIBE

- MoU with UNEP CAR/RCU
- LBS Protocol
- LME+ Project
- Caribbean Atlas

Lima Conv /IOC

- MoU with CPPS
- Coastal Management /SPINCAM
- Tsunami WS
- Ocean observation /El Nino

COBSEA/NOWPAP/SACEP/ WESTPAC

- Marine biodiversity
- Remote sensing data analysis
- Alien Species
- Training on Marine Assessment (WOA)

Nairobi/Abidjan Conv/IOCAFRICA

- Ocean Observation /GOOS-Africa
- Ocean data management/CD

SPREP

- Ocean Observation –PI-GOOS

Barcelona Conv.

- Marine Assessment (PEGASO)
- ICAM Protocol

2 initiatives with high potential...

- GEF Transboundary Water Assessment Programme
- GEF Large Marine Ecosystem Global Governance project

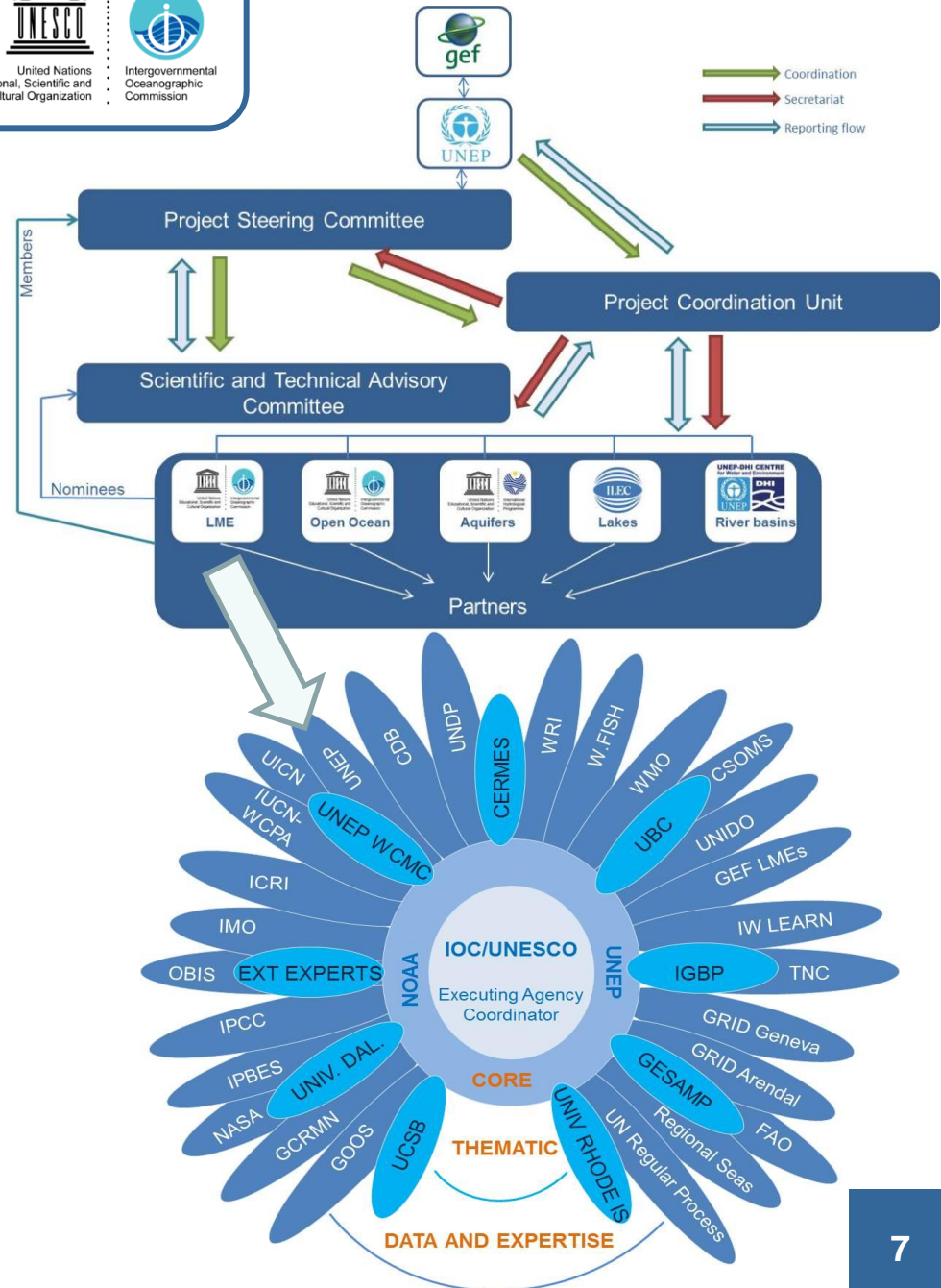


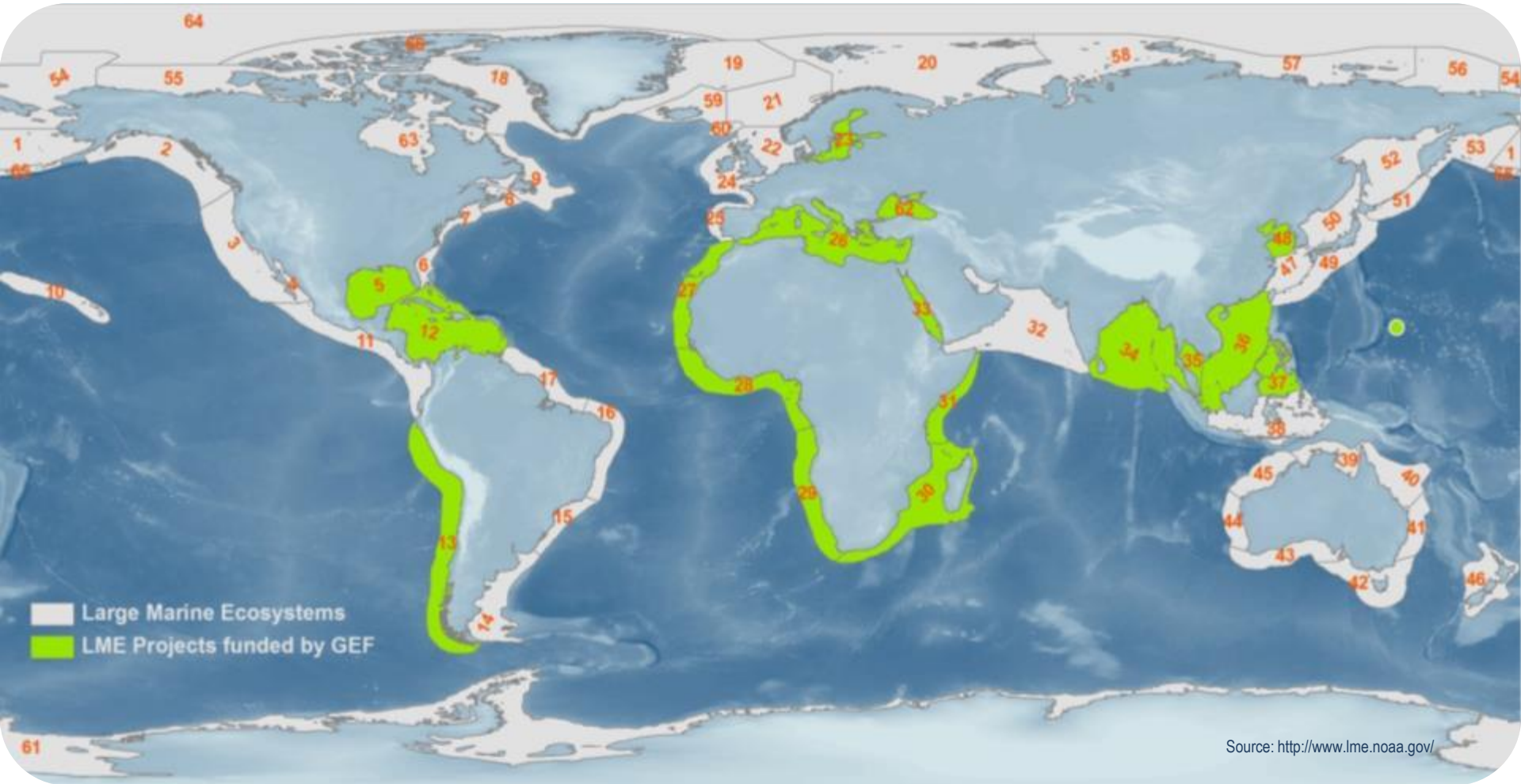
GEF funded project
Implementation: April 2013 to March 2015

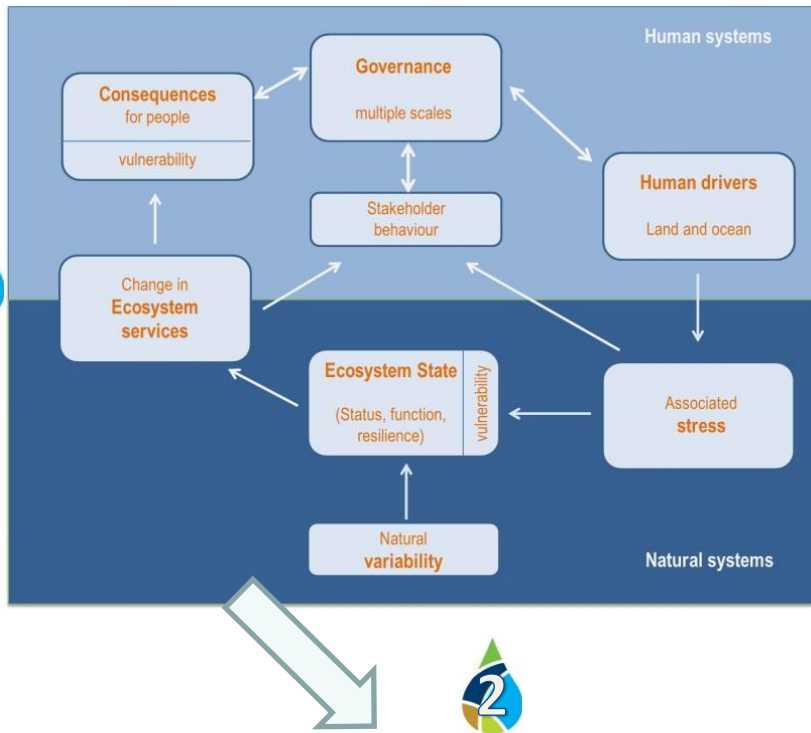
Objectives:

1. A global baseline assessment of the **status and changing condition of transboundary water systems resulting from human and natural causes**, which will allow the GEF, policy makers and international organizations to set science-based priorities for financial resource allocation and

2. The **institutional arrangements for conducting periodic future assessments of transboundary water systems** to allow the GEF and others to track the results of their interventions.







Data



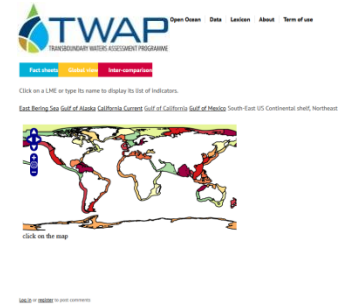
Indicators



Reports



Web



Productivity	Fisheries	Pollution and Health	Socio-economics	Governance
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1. Chlorophyll a
2. Primary productivity
3. Sea surface temperature

1. Annual catch
2. Catch value
3. Marine trophic index
4. Fishing in balance index
5. Stock status
6. Catch from bottom impacting gear
7. Fishing effort

1. Nutrients (N,P,Si)
2. Coastal Eutrophication Potential
3. POPs in plastic pellets
4. Plastic debris density
5. Change in MPA coverage
6. Reefs at Risk Index
7. Mangrove extent
8. Coral reef extent
9. Cumulative human impacts
10. Delta Vulnerability index

1. % GDP fisheries
2. %GDP international tourism
3. Population within 10m coastal elevation
4. Human development Index
5. Deaths caused by climate related natural disasters

1. Governance architecture

- While the principal target audience is the GEF, other potential users of the TWAP results include the World Ocean Assessment (WOA) and Regional Seas Programmes
- Data will be available to users of the assessment results through websites, spatial data infrastructure and reports
- The indicators and baselines may be relevant to environmental assessment and planning at Regional Seas and other scales
- Can facilitate incorporation of transboundary considerations into WOA, Regional Seas

What are LMEs?

Socio-economic importance of LMEs

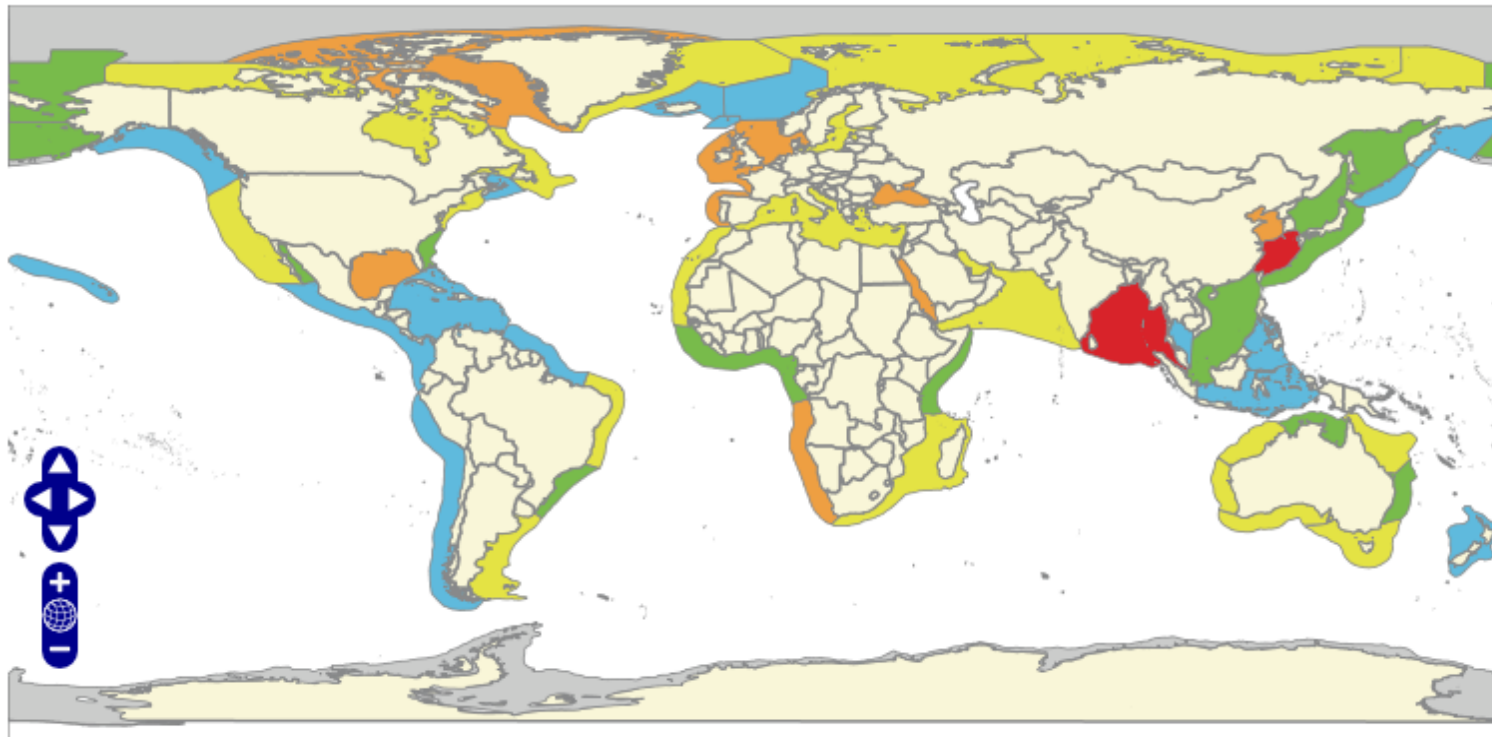
Changing status of LME health

The Global Environment Facility's support for LMEs

TWAP LMEs Assessment Methodology

LMEs Conceptual Framework

Search for an LME or click on the map



ICEP, Index of Coastal Eutrophication, categorized from lowest (1) to highest (5) values

Source: E. Mayorga. [get data and metainformation](#)



- LMEs
- Productivity
- Fish & Fisheries
- Pollution
- Nutrients
- ICEP
- DIN loading
- Merged indicator
- Plastics
- POPs
- Ecosystem health
- Socio-economics
- Governance
- General information
- Western Pacific Warm Pool
- Global Comparative Assessment

What are LMEs?

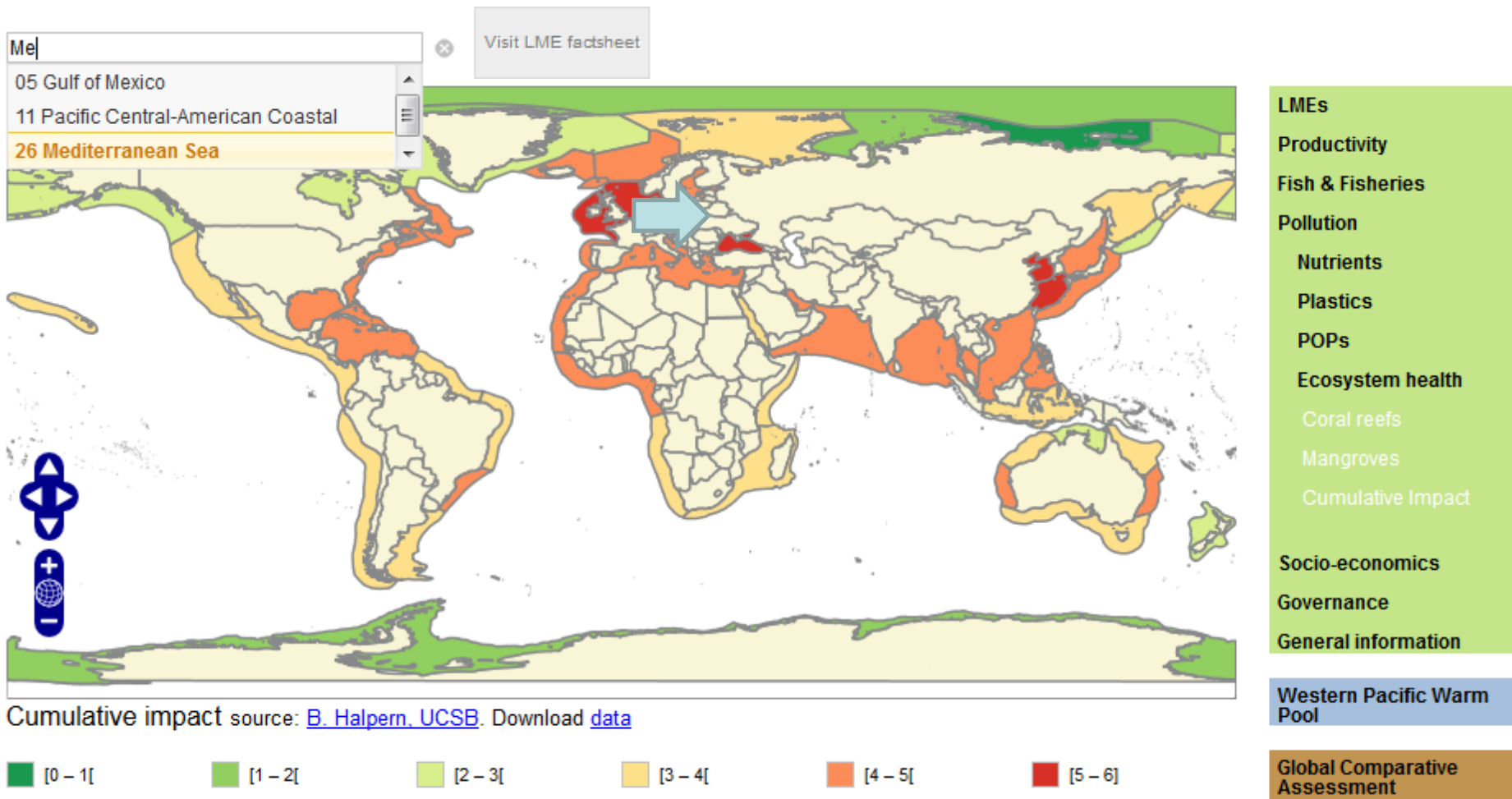
[Socio-economic importance of LMEs](#)

[Changing status of LME health](#)

[The Global Environment Facility's support for LMEs](#)

[TWAP LMEs Assessment Methodology](#)

[LMEs Conceptual Framework](#)





Mediterranean Sea



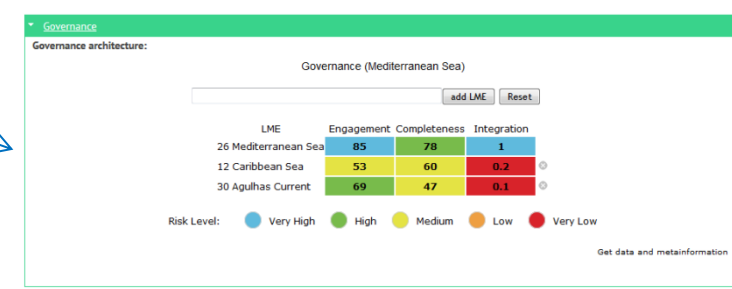
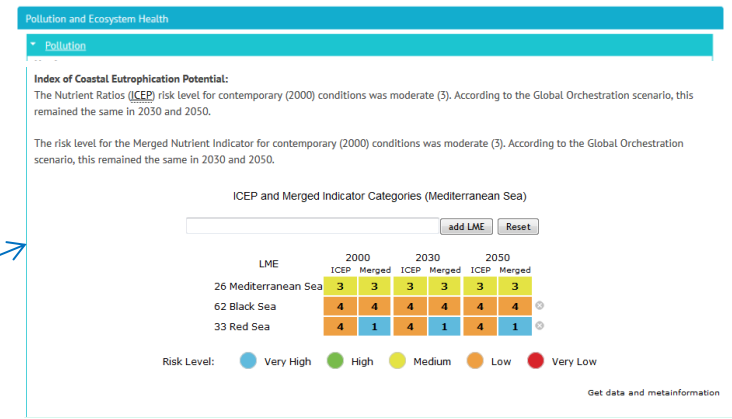
LME #26 (previous next)
Countries: Albania, Algeria, Bosnia-Herzegovina, Croatia, Cyprus, Egypt, France, Gibraltar, Greece, Holy See (Vatican), Israel, Italy, Lebanon, Libyan Arab Jamahiriya, Malta, Monaco, Morocco, Occupied Palestinian Territory, San Marino, Serbia and Montenegro, Slovenia, Spain, Syrian Arab Republic, Tunisia, Turkey
Area: 2528398 km²



- [Productivity](#)
- [Fish and Fisheries](#)
- [Pollution and Ecosystem Health](#)
- [Pollution](#)
- [Ecosystem Health](#)
- [Socio-economics](#)
- [Governance](#)

[Iberian Coastal](#) [up](#) [Canary Current](#)

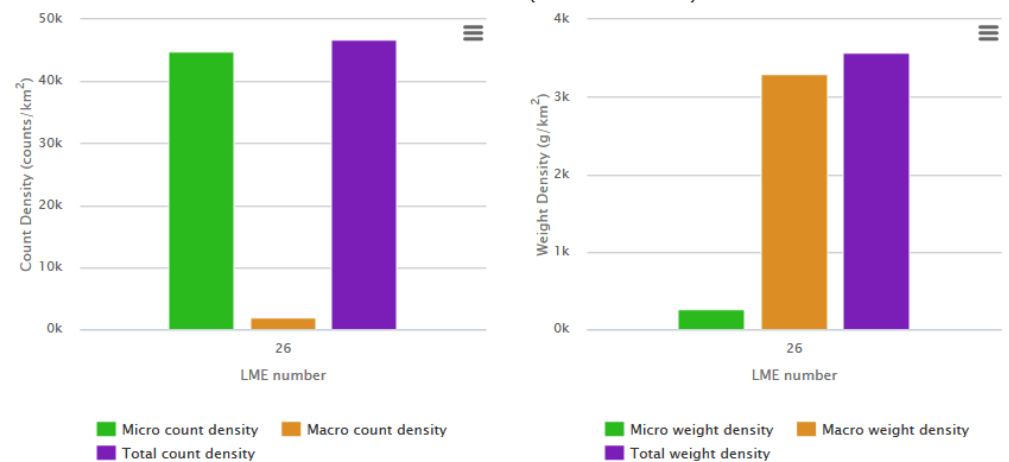
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Plastic debris:

Plastics Model Distribution (Mediterranean Sea)



Data download (*.zip)

Download dataset from Modelled macro and micro plastics distribution

Get data and metainformation

Interlinkages with other transboundary water systems

Measurement methods and calculation

Scale: Global grid at 0.2 nautical degree resolution.

Data sources: Lebreton et al, 2012

Agencies & contacts: Laurent Lebreton, Dumpark, New Zealand

References: Lebreton L, Greer S, Borrero J (2012) Numerical modeling of floating debris in the world's oceans. *Marine Pollution Bulletin* 64: 100-110. Eriksen et al., Global estimate of plastic pollution particle count and weight floating in the world's oceans. *Marine Pollution Bulletin* 64: 111-119. (publication with minor revision in PlosOne)

Identification Info

Dataset

Title: Modelled macro and micro plastics distribution

Presentation Form: Digital Map

Abstract: Plastic pollution is globally distributed across all oceans due to its properties of buoyancy and durability, and its persistence in the environment have led some researchers to claim that synthetic materials should be regarded as hazardous waste. However, there are rather few reliable observational data on the quantities of floating plastic in each LME. Definition: Modelled macro and micro plastics distribution in LMEs: relative quantities of floating micro- (<4.75mm) and macro- (>4.75mm) plastics in LMEs, based on a model of surface water circulation and the use of proxy inputs (shipping density, coastal population density, area of impermeable catchment i.e. urban areas with rapid run-off).

Abriendo lmes_plastics_modeldistribution_1.0.zip

Ha elegido abrir:

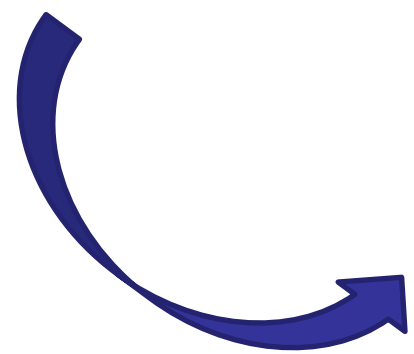
lmes_plastics_modeldistribution_1.0.zip
que es: Compressed (zipped) Folder (6,9 MB)
de: http://onesharedocean.org

¿Qué debería hacer Firefox con este archivo?

Abrir con Windows Explorer (predeterminada)

Guardar archivo

Hacer esto automáticamente para estos archivos a partir de ahora.



ISO Metadata document



GEF Project Proposal: LME Governance

- Partners:



- Objective:

- To improve global ecosystem-based governance of Large Marine Ecosystems and their coasts by generating **knowledge, building capacity, harnessing public and private partners, and supporting south-to-south learning and north-to-south learning.**

1. Global and regional network of partners to enhance EBM to support GEF/LME/ICAM/MSP/MPA projects

- Enhanced network of partners working together in GEF-LME/ICM/MPA projects.
- Increased interaction and collaboration between GEF- LME, MPA and ICM projects and other marine and coastal initiatives supported by GEF and partner organizations (e.g Regional Seas).
- Progress towards fully integrated 'ridge to reef' ecosystem-based management of freshwater and marine transboundary water systems,
- Outputs:
 1. COP established
 2. Steering Committee functioning
 3. Technical Working Groups organised
 4. Regional LME networks established

2. Best LME Governance practices

- GEF LME/ICM/MPA projects equipped with new tools that incorporate ICM, MPAs and climate variability and change.
- Innovative approaches captured and available for use by GEF projects
- Facilitate the exchange of experiences between LME's on data and information management
- Outputs:
 1. Series of validated methods and new tools to address priority transboundary issues and national governance reforms
 2. An LME/ICM/MPA Toolkit for adaptive ecosystem-based governance
 3. Codification of experiences and best practices from GEF LME/ICM/MPA projects
 4. Establishment of an "LME/ IW environmental data management committee".

3. Capacity development, twinning and learning exchanges

- Increased collaboration and learning with non-GEF marine and coastal initiatives (e.g. Seascapes)
- GEF LME/ICM/MPA practitioners trained in new techniques and approaches for ecosystem-based 5-modular assessment
- Increased capacity of GEF LME, ICM and MPA project staff and practitioners, to address the new ecosystem-based governance priorities in GEF6
- Outputs:
 1. Functional dialogue, project twinning, learning exchanges, and training workshops
 2. GEF LME/ICM/MPA practitioners fully trained
 3. New training materials developed (with partners)

4. Communication, dissemination and outreach

- Communication of results to stakeholders, increased awareness of LME issues and engagement in networks through global and regional LME /COPs
- Strategy developed for showcasing LME and ICM assessment and governance best practices among project stakeholders.
- Global policy discussions informed and impacted LME/ICM/MPA governance project.
- Outputs:
 1. Global LME/ICM/MPA- communication platform
 2. Lessons from GEF ecosystem-based LME/ICM/MPA projects disseminated through IW:LEARN website and other related activities
 3. Publication of findings from LME/ICM/MPA projects in peer-reviewed journals
 4. Participation of GEF ecosystem-based LME/ICM/MPA project staff and practitioners in regional and global conferences

Key messages

- Collaboration could be strengthened across all RS
- Need a new MoU providing framework for global and regional collaboration? (Last MoU 2005, exp 2010)
- Increased integration/cooperation with LME through Global LME Secretariat
- Engagement of RS in reviewing and using TWAP LME and Open Ocean data products
- Potential for capacity development support of RS through LME governance project and other IOC programmes (eg Global Ocean Teacher Academy)



A scenic view of a white-washed village with blue domes and a bell tower overlooking the sea. The buildings are white with blue accents, and the sea is a deep blue. The sky is clear and blue.

Ευχαριστώ πολύ!

Thank you!

Merci beaucoup!

¡Muchas gracias!

شُكْرًا

Спасибо

谢谢

<http://ioc.unesco.org>