



الهيئة الإقليمية للمحافظة على  
بيئة البحر الأحمر وخليج عدن

# Regional Indicators Used for Assessment of Marine Environment in the Red Sea and Gulf of Aden

Ahmed S. M. Khalil  
Regional Program Coordinator  
Living Marine Resources and Climate Change  
PERSGA

[ahmed.khalil@persga.org](mailto:ahmed.khalil@persga.org)

# OUTLINE

- Brief background on PERSGA and Characteristics of the Red Sea and Gulf of Aden Region
- PERSGA Standard Survey Methods for Key Habitats and Species , and Living Marine Resources
- Performance Indicators in Specific RAPs for Conservation of Key Habitats and Species
- Indicators in Other Assessment Guidelines
- Gaps and shortcomings
- Addressing gaps:
  - PERSGA workshop on Regional Indicators (2010)
  - SEM Project Component 3: Regional Environmental and Socioeconomic Monitoring Supporting Ecosystem Based Management (EBM)





## **PERSGA** الهيئة الإقليمية للمحافظة على بيئة البحر الأحمر وخليج عدن

*An intergovernmental organization concerned with protection/conservation of marine environment and sustainable development*

- Member states are **Djibouti, Jordan, Egypt, Saudi Arabia, Somalia, Sudan and Yemen**
- Head Quarter in Jeddah
- PERSGA has also established a marine Emergency Mutual Aids center for the Red Sea and Gulf of Aden (EMARSGA) in Hurghada
- Legal/mandatory framework: Jeddah Convention (1982) and its attached/ derived Protocols and MoUs
- Regional Action Plan developed in 1982

# Regional Action Plan Major Objectives

Assessment of Coastal-Marine environment

Guidelines for Sustainable Resource Management

Legal Base for Cooperative Efforts

Support Institutional Mechanism

## PERSGA Program Components

### Specialized Programs

- ❑ Living Marine Resources Program
- ❑ Biodiversity-MPAs Program
- ❑ Regional Monitoring Program
- ❑ Land Based Activities Program
- ❑ Marine Pollution (EMARSGA Center)
- ❑ Climate Change Program

### Supportive Programs

- ❑ Environmental Education and Awareness
- ❑ Annual Training Program: Capacity Building
- ❑ PERSGA Regional Information System
- ❑ On-ground Activities Program: Demo Projects



# Regional Legislation

Regional Action Plan  
Protocol on Combating  
Pollution by Oil and  
Hazardous Chemicals  
Jeddah Convention

1982

Protocol on  
Protection  
from LBAs  
  
Protocol on  
Biodiversity  
and MPAs  
Network

2005

Protocol on  
Exchange of  
Equipment  
and Personnel  
During  
Emergencies

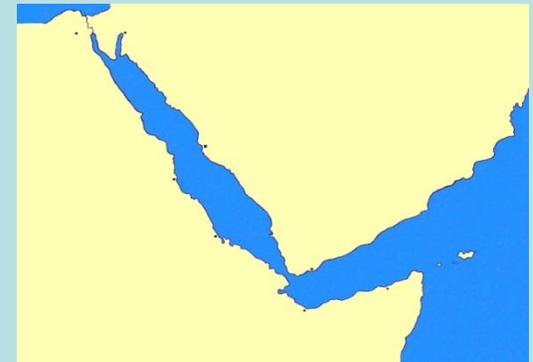
2009

MoU on  
Regional  
Cooperation  
on Port State  
Control

2011

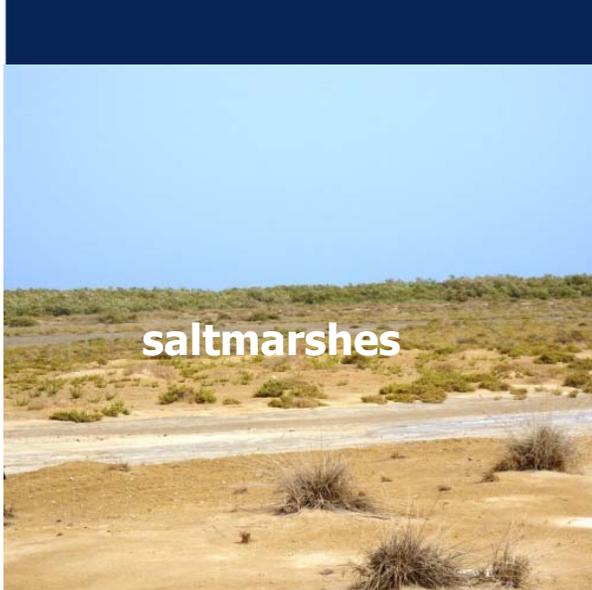
MoU on  
Regional  
Cooperation in  
Fishery  
Management

2013



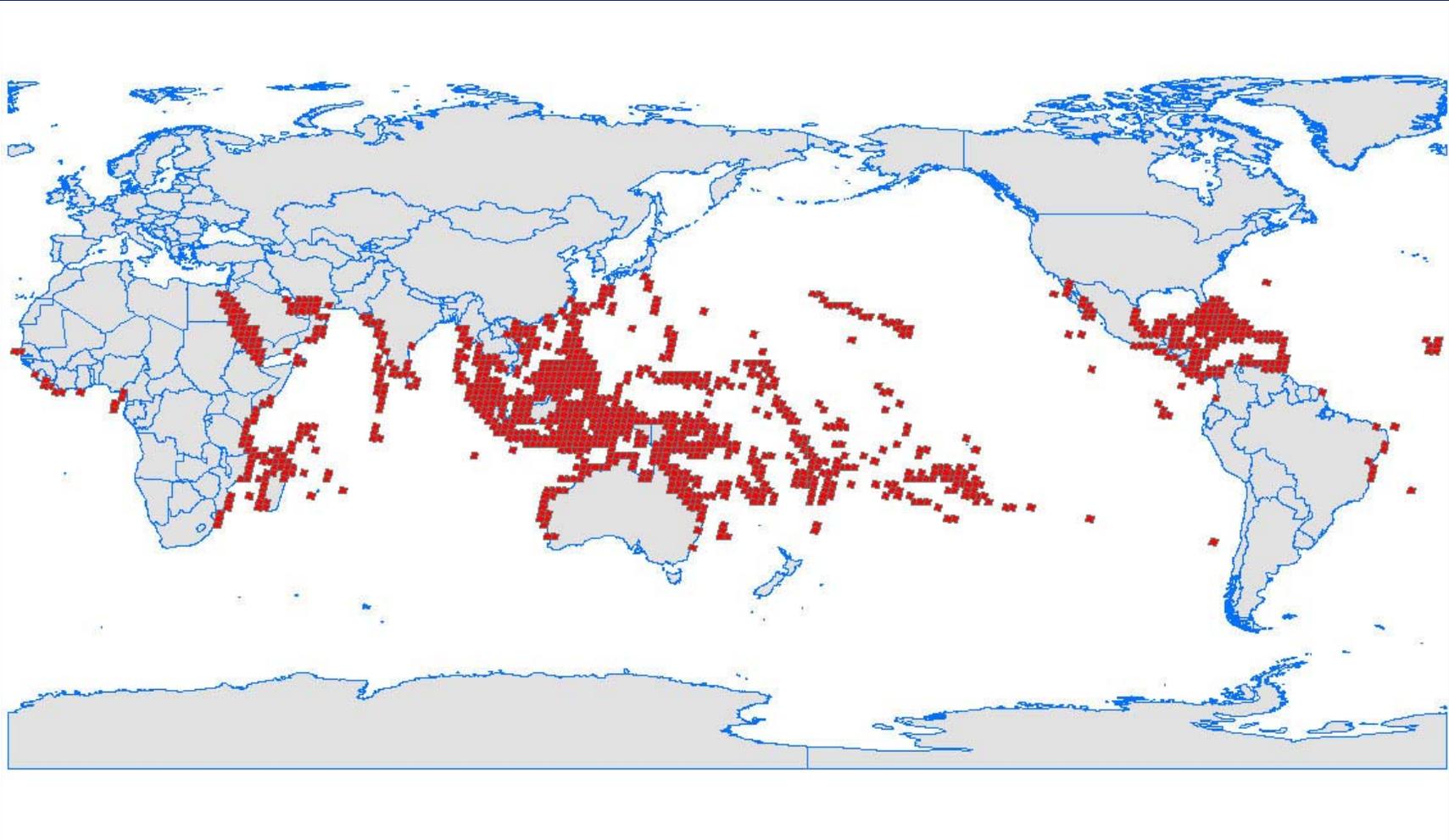
# Diverse coastal and marine habitats

Key ecosystems/ the resource base is diverse in the Red Sea and Gulf of Aden



## World Coral Reefs Distribution

The Red Sea represents less than 0.2% of the world's ocean, while it supports around 6% of the world's coral reefs



预览已结束，完整报告链接和二维码如下：

[https://www.yunbaogao.cn/report/index/report?reportId=5\\_12295](https://www.yunbaogao.cn/report/index/report?reportId=5_12295)



## ity of the Red Sea

≈ 300 species

≈ 170 species

≈ 130 species

≈ 567 species

in comparison: *Arabian Sea 141 species*

*Arabian Gulf 231 species*

n is an area of oceanic  
ltling in high productivity  
ources

