



What is MedGOOS?

The Mediterranean Global Ocean Observing System (MedGOOS) is an informal association founded under the auspices of the UNESCO/Intergovernmental Oceanographic Commission (IOC) to provide a concerted approach to the planning and implementation of an operational ocean monitoring system for the benefit of all coastal states in the region.

Why observe and monitor the sea?

Sustainable development requires the intelligent management of the marine environment, to protect the marine ecosystem and minimise the impacts of anthropogenic influences and climatic changes.

Routine ocean monitoring and forecasting based on sound science, reliable assessment, and efficient co-operation between nations, is the main tool for such a management.

Managing marine resources envisages a fusion of ecosystem observations, deterministic information and socio-economic knowledge. The advent of multi-disciplinary, spatially widespread, long term data sets is expected to trigger an unprecedented leap in the economic value of ocean data.

This will prompt an enhanced motivation and conviction on the relevance of systematic marine observations and reliable forecasts to achieve sustainability according to the guidelines set by Agenda 21 and to share resources in harmony with the principles of the UN Convention on the Law of the Sea (UNCLOS).

Objectives of MAMA

- **Build the basin-wide network** for ocean monitoring and forecasting, linking all the Mediterranean countries;
- **Identify the gaps** in the monitoring systems in the region and in the capability to measure, model and forecast the ecosystem;
- **Integrate the knowledge base** derived by relevant national and international RTD projects and programmes;
- **Build capacities** in operational oceanography;
- **Design the initial observing and forecasting system**, on the basis of a co-ordinated upgrading of capabilities in all Mediterranean countries;
- **Raise awareness** on the benefits of MedGOOS at local, regional and global scales;
- **Bring together all stakeholders** to harmonise strategies for operational oceanography at the service of sustainable development;
- **Demonstrate applications** derived from operational oceanography, and addressing the specific needs of the Mediterranean countries.



MAMA partners at the kick-off meeting (Paris, March 2002)

Main Project Activities

- **MAMA - COORDINATION**
Establish an integrated fully cooperating institutional network, harmonising the work of the members and developing a sound strategy to sustain the implementation of operational ocean monitoring in the Mediterranean.
- **MAMA - NOW**
Inventorying and assessment of current national operational oceanographic activities, infrastructure and resources in the Mediterranean.
- **MAMA - OBSERVING SYSTEM**
Design the real-time coastal data acquisition systems, fully integrated to the basin scale observing system.
- **MAMA - CAPACITY BUILDING**
Enhance in each country the basic technical and scientific expertise required to participate in MedGOOS.
- **MAMA - MODEL**
Transfer of know-how and modelling experiences to partners by dedicated model implementations in new shelf areas.
- **MAMA - NET**
Design and test elements for inter-agency networking and exchange of data and information. Provide guidelines for a regional marine information system.
- **MAMA - WWW**
Establish the MAMA WWW as a reference point and showcase for operational oceanography in the Mediterranean.
Establish a regional directory of marine agencies, institutions and professionals and their activities in operational oceanography.
- **MAMA - AWARENESS**
Undertake an awareness campaign on MedGOOS addressing governmental agencies and authorities, policy-makers, the marine scientific community, marine industries, the services sector, and the public at large.
- **MAMA - DISSEMINATION & PRODUCTS**
Promote the use and potential of added-value MedGOOS products for the management of marine resources.



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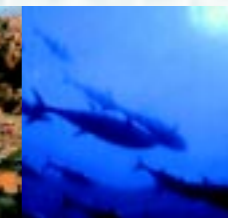
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MAMA - The First MedGOOS Project

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The **M**editerranean network to **A**ssess and upgrade **M**onitoring and forecasting **A**ctivity in the region (MAMA) is a 3-year EU-funded project, with a partnership from all the riparian countries, that aims to establish the multi-national network and regional platform for routine marine observations and forecasts in the Mediterranean.

MAMA focuses on the trans-national pooling of scientific and technological resources in the basin, through the sharing of experiences and the transfer of expertise, to bring capacities in operational oceanography at comparable levels.

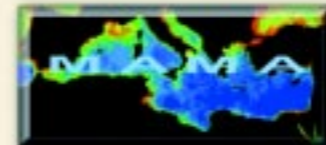
MAMA interacts with end-users, stakeholders and relevant international organisations, working in the whole basin to stimulate local awareness on the benefits of operational oceanography, disseminating results and demonstration products.

The MAMA consortium will provide guidance to the Mediterranean states to shape an integrated effort towards the planning and design of the long term sustained ocean monitoring system in the region.







List of MAMA Participants:

-  Albania (Institute of Hydrometeorology)
 -  Algeria (Laboratoire d'Etudes Maritimes)
 -  Bosnia & Herzegovina (Hydro-Engineering Institute Sarajevo)
 -  Croatia (Institute for Oceanography and Fisheries)
 -  Cyprus (Oceanography Section, Dept. of Fisheries & Marine Research)
 -  Egypt (Dept. of Oceanography, University of Alexandria)
 -  Egypt (National Institute of Oceanography and Fisheries)
 -  France (Institut Français de Recherche pour l'Exploitation de la Mer)
 -  Greece (National Centre for Marine Research)
 -  Greece (Institute of Marine Biology of Crete)
 -  Israel (Israel Oceanographic and Limnological Research)
 -  Italy (Centro Marino Internazionale)
 -  Italy (Univ. Bologna/Centro Interdip. di Ricerca per le Scienze Ambientali)
 -  Italy (Centro Ricerche Ambiente Marino - ENEA)
 -  Italy (Sistemi Sensoriali ed Ambiente Marino - CNR)
 -  Italy (Agenzia Nazionale per la Protezione dell'Ambiente)
 -  Lebanon (National Centre for Marine Sciences)
 -  Libyan Arab Jamahiriya (Dept. of Env. Studies - Env. General Authorities)
 -  Malta (IOI - Malta Operational Centre)
 -  Morocco (ICZS, Dept. of Earth Sciences, Mohamed V University)
 -  Palestine Authority (Al-Azhar University of Gaza)
 -  Slovenia (National Inst. of Biology, Marine Biology Station of Piran)
 -  Spain (Instituto Español de Oceanografía)
 -  Spain (Institut de Ciències del Mar)
 -  Syria (High Institute of Marine Research, Tishreen University)
 -  Tunisia (Institut National des Sciences & Technologies de la Mer)
 -  Turkey (Institute of Marine Sciences, Middle East Technical University)
 -  Yugoslavia (Institute for Marine Biology)
- Intergovernmental Oceanographic Commission
European Global Ocean Observing System
United Nations Environmental Programme/Mediterranean Action Plan



International Advisory Board:

-  J. Woods, Imperial College, UK
-  H. Dahlin, EuroGOOS Office, Sweden
-  G. Brundrit, GOOS-Africa, S. Africa
-  P. Marchand, EuroGOOS, France

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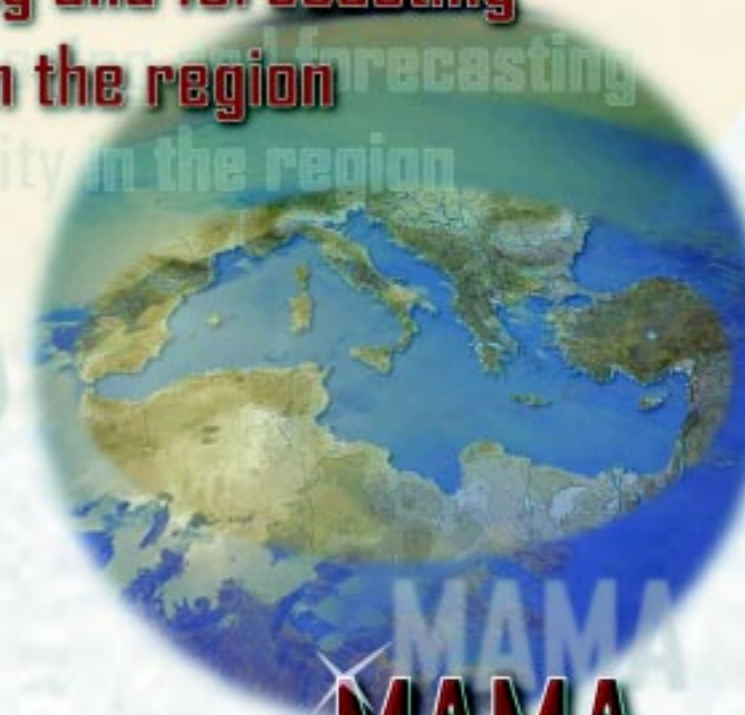
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NMS Design - <http://www.nmggroup.biz/>
Prepared by the MedGOOS Secretariat

MAMA is a thematic network funded under the EC Programme Environment and Sustainable Development, 5th FP (contract EVR1-CT-2001-20010)

Mediterranean network to Assess and upgrade Monitoring and forecasting Activity in the region

the first MedGOOS project



trans-national pooling of S & T resources
demonstration products
sharing ocean data and information
raise awareness on MedGOOS
consensus on MedGOOS

assess existing ocean/coastal observing systems
plan & design the initial observing and forecasting system
interact with end-users
tools for sustainable development
sharing experiences and transfer of expertise
added-value products for improved marine services

