



MEMAC's ROLE & REGIONAL MASTER PLAN



1978

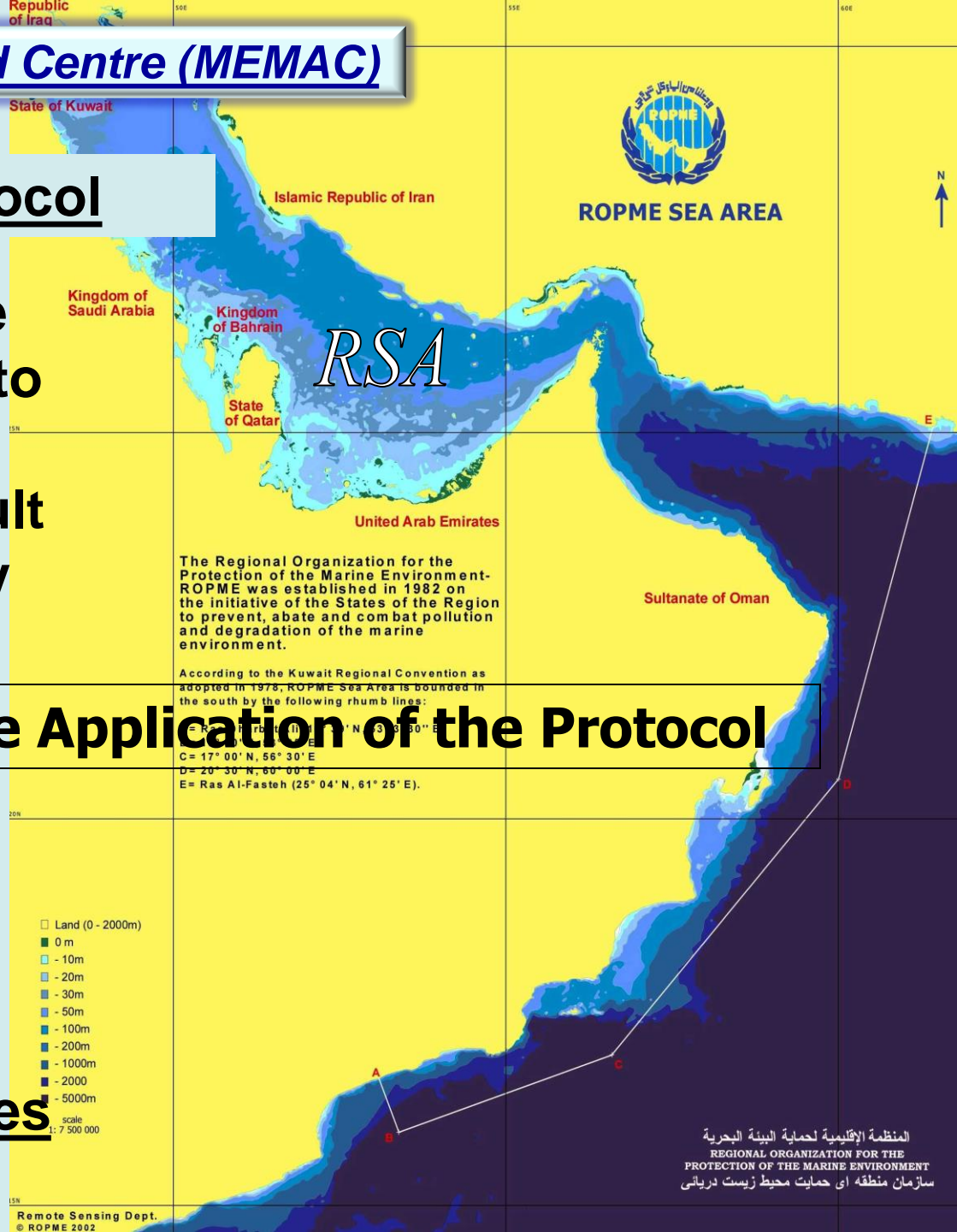
Marine Emergency Mutual Aid Centre (MEMAC)

The Purpose of the Protocol

To Provide Co-Operative and effective measures to deal with Marine Emergencies which result from Marine Pollution by Oil & other Harmful substances

The Application of the Protocol

Protocol of 13 Articles



Kuwait Regional Convention
for Co-operation on the Protection
of the Marine Environment from Pollution
Protocol concerning Regional Co-operation
in Combating Pollution by Oil
and other Harmful Substances
in Cases of Emergency
(1978)

Marine Emergency Mutual Aid Centre (MEMAC)

The Articles cover the following points

- **To co-operate in taking measures to protect coastlines and related interests of the Contracting States.**
- **To maintain and promote the Contingency Plans and means of combating marine pollution.**

&

To Establish the MEMAC in order to:

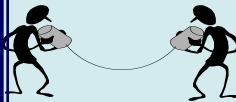
- ▶ **S**trengthen the capacities of the Contracting States and to facilitate co-operation among them.
- ▶ **A**ssist the Contracting States in developing their own national capabilities, i.e. exchange of information, technology and training.
- ▶ **F**urther, the Protocol gives an area to move forward to the operational functions.

MEMAC Obligations



Assist the Contracting States to/in

- **Strengthen National Capabilities**
- ***N. & R. Contingency Plans***
- **Promote Information Exchange**
- ***Researches & Experts***
- ***Laws, Regulations, Conventions***
- **Facilitate Cooperation**
- ***Emergency (Transboundary Movement of Per. & Equipments)***
- ***Liaison with Regional and International Organizations,***
- ***Communication***
- ***Personnel Training***
- ***To prepare periodic reports on marine emergencies***



Marine Emergency Mutual Aid Centre (MEMAC)

• FUNCTIONS (ARTICLE III)

- a) To collect and disseminate to the Contracting States information concerning matters covered by this Protocol, including:
 - (i) Laws, regulations and information concerning appropriate authorities of the Contracting States and marine emergency contingency plans referred to in Article V of this Protocol;
 - (ii) Information concerning methods, techniques and research relating to marine emergency response referred to in Article VI of this Protocol; and
 - (iii) List of experts, equipment and materials available for marine emergency responses by the Contracting States ;
- b) To assist the Contracting States, as requested :
 - (i) In the preparation of laws and regulations concerning matters covered by the Protocol and in the establishment of appropriate authorities;
 - (ii) In the preparation of marine emergency contingency plans;
 - (iii) In the establishment of procedures under which personnel, equipment and materials involved in marine emergency responses may be expeditiously transported into, out of and through their respective countries;
 - (iv) In the transmission of reports concerning marine emergencies; and
 - (v) In promoting and developing training programs for combating pollution.



Marine Emergency Mutual Aid Centre (MEMAC)

- c) To co-ordinate training programs for combating pollution and prepare comprehensive anti - pollution manuals;
- d) To develop and maintain a communication/information system appropriate to the needs of the Contracting States and the Centre for the prompt exchange of information concerning marine emergencies required by this Protocol;
- e) To prepare inventories of the available personnel, material, vessels, aircraft and other specialized equipment for marine emergency response;
- f) To establish and maintain liaison with competent regional and international organizations, particularly the International Maritime Organization of the United Nations, for the purposes of obtaining and exchanging scientific and technological information and data, particularly in regard with any new innovation which may assist the Centre in the performance of its functions
- g) To prepare periodic reports on marine emergencies for submission to the ROPME Council; and
- h) To perform any other functions assigned to it either by this Protocol or by the ROPME Council.

Achievements

Standards laid & tailored by for the Region



- Regional Pollution Manual - **MEMAC**
- Manual on Oil Pollution & Combating Oil Spills - IMO
- Regional Oil Spill Damage Assessment Guidelines - **MEMAC**
- Oil Pollution Combating Equipment Guide - **MEMAC**
- Regional Claims Manual - **MEMAC**
- Marine Environment Protection Législation Guide - **MEMAC**
- Oil Spill Response Safety Guide - **MEMAC**
- Use of Oil Spill Chemicals (Dispersant) – ROPME
- The Loan and Transboundary Movement of Personnel, Equipment & Materials in Cases of Emergency Guidelines - **MEMAC**

Achievements *Continue*

- ❖ *Development of Regional Contingency Plans for the Oil, Chemicals and Radiations*
- ❖ *Several Committees to deal with Different Subjects*
- ❖ *Installation of AIS Tracking System in various Ports*
- ❖ *Ratification of different International Conventions and Protocols by M. States*
- ❖ *Ballast Water Management*
 - ✓ Development of Regional BWM Strategic Action Plan
 - ✓ Designation of Ballast Water Exchange Area Outside RSA
 - ✓ Undertaking various BWM Training Programmes
 - ✓ Development and distribution of the Regional Ballast Water Reporting Forms (RBWRF)

Achievements

❖ **SAR Convention**

- ✓ **Development of the Regional SAR MOU**
- ✓ **Progress is still going on**

❖ **Special Sea Area** *Under MARPOL 73/78*

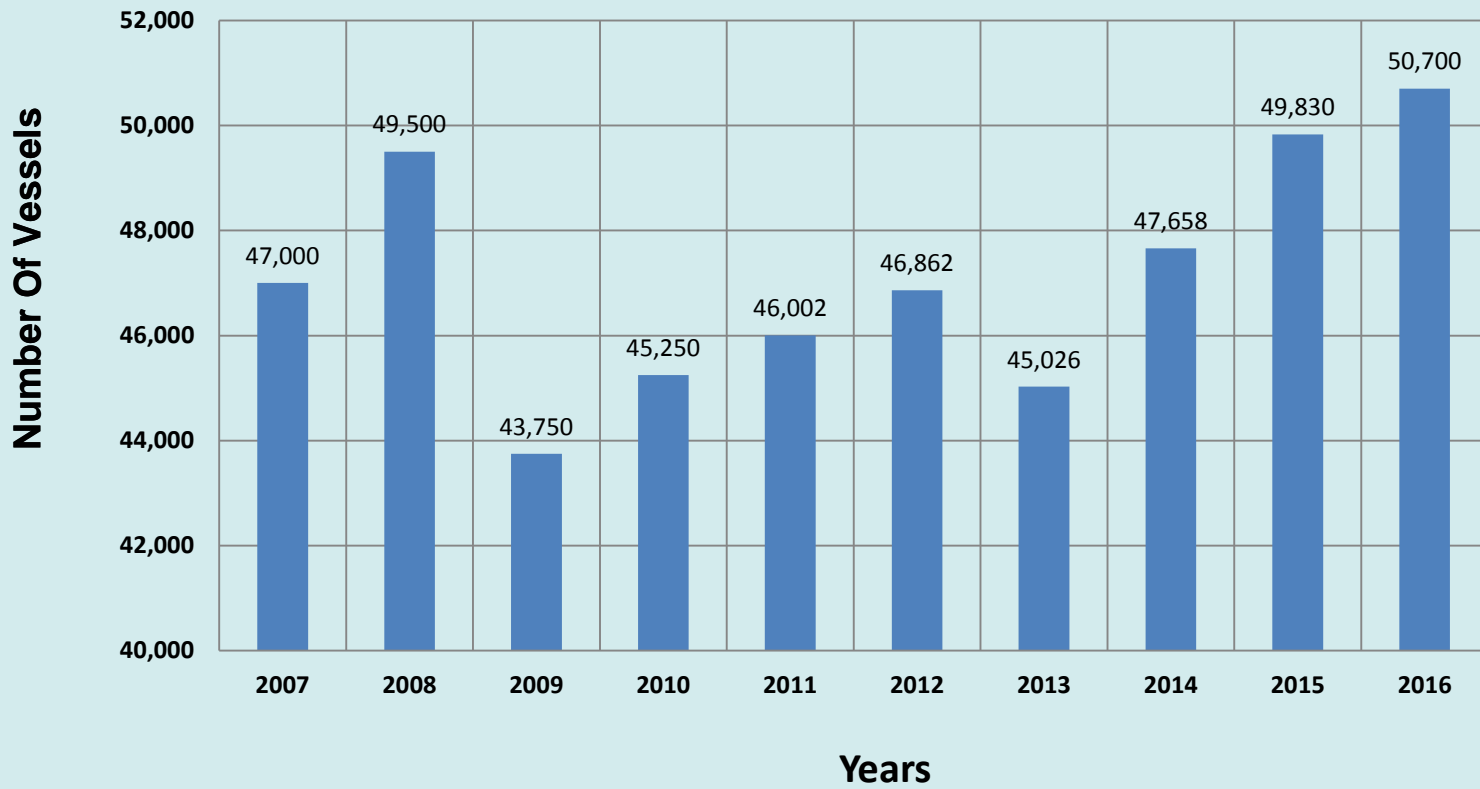
- ✓ **Development of the Regional MARPOL Strategic Action Plan**
- ✓ **Development of the Regional Road Map for MARPOL Implementation.**

The Training Programme 24 different Courses and workshops

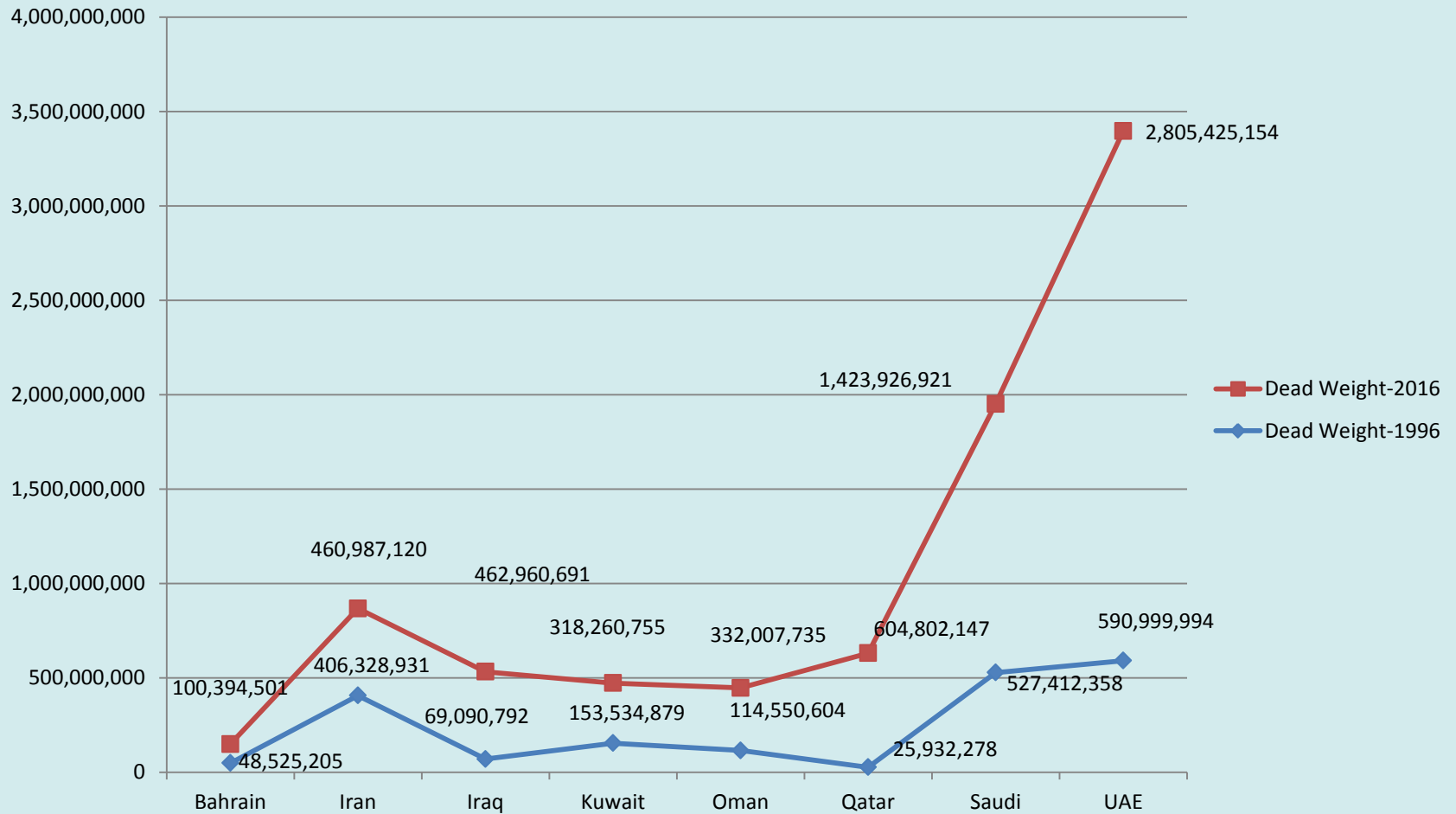
- **INTRODUCTION TO MARINE POLLUTION AND OIL SPILL COMBATING PROCEDURES**
- **OIL SPILL COMBATTING** *MANAGERIAL, SUPERVISOR & OPERATORS which known as IMO - LEVELS 1, 2 & 3*
- **HAZARDOUS MATERIALS EMERGENCY RESPONSE**
MANAGERIAL, TEAM LEADER & OPERATORS which known as MEMAC - LEVELS 1, 2 & 3
- **COASTAL AREA & DESALINATION PLANT PROTECTION**
- **TRAJECTORY MODELLING & Aerial Surveillance**
- **PORT STATE CONTROL,** *etc, sequence of different training courses.*
- **RADIATION**

Port Calls and total number of vessels entered RSA for the last 10 Years

Number of Vessels Passed Strait of Hormuz during the Last 10 Years



Member States received Ships' Dead Weight (DW) Comparison



Taking into consideration the tremendous growth of the number of ships visiting the Region, beside other vast developments and activities and incidents which occurred in the last two decades, MEMAC has adapted a new project called the Master Plan.

Master Plan

What is the Master Plan ?

"Implementation", "Enforcement", "Evaluation" and "Corrective Action"

It is an umbrella study to fulfil the obligations resulting from different Legal Commitments, to meet the ever- increasing Environmental challenges, and to attain sustainable mechanisms and appropriate instruments which have to be developed and immediately implemented, following the guiding principle "protecting the environment by promoting safety".

The Objectives

- ❑ The "Master Plan" shall address the **Future Planning** of how the Region shall be fitted out with **Pollution and Navigational Hazards Prevention** and control capabilities, based on the Existing and the Future trade volumes and the possible hazards to the Environment.

WHY ???

Back Ground

- ❑ Vast Development resulted from several projects in the Region under process which cause a heavy stress on the Marine Environment and all the safety aspects
- ❑ *Several Ports' Expansions and Maritime Activities*
- ❑ Expectation of continuous heavy Shipping Traffic for a long period
- ❑ Increased numbers of Incidents

Main Advantages of the Master Plan

- ❑ *It will constitute a very essential tool on how to coordinate Present and Future Activities.*
- ❑ *It shall enable Member States as well as MEMAC to avoid duplications in spending on facilities such as Pollution Control and Navigation Safety.*
- ❑ *Its implementation can be Self Financing through proper management of compensations and retrieval of pollution control costs.*

Further Advantages of the Master Plan

- ❑ *Increase of Safety and Quality*
- ❑ *Growing Awareness about Environmental and Safety issues*
- ❑ *Reduce Risk (Safety and Environment)*
- ❑ *Eliminate Substandard Shipping*
- ❑ *Improve positive image*
- ❑ *Better turn around time in port for Ports and Industry*
- ❑ *The States will fulfill the IMO Audit Scheme requirements:*

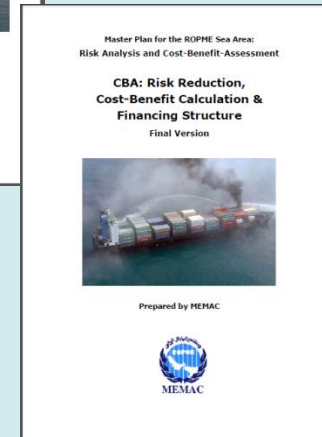
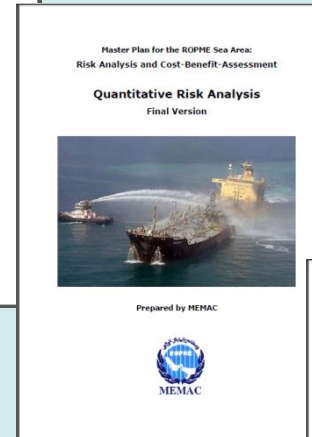
Master Plan - Key Studies

To develop the Master Plan, a series of studies have been completed by MEMAC

Gap Analysis

Risk Analysis

Cost-Benefit Assessment



Master Plan - Key Studies

Master Plan Section	Sub-section	Targets
Risk Analysis (RA)	Gap Analysis	Assess implementation of Mandatory IMO Instruments
	Quantitative RA	Analyze traffic patterns, casualties, Regional Risk Exposure
Cost-Benefit Assessment (CBA)	Risk Reduction	Improve safety and environment infrastructure and services
	Cost-Benefit Calculation	Valuate environmental and socio-economic indicators
	Financing Structure	Apply "Polluter-Pays" Principle and cost-sharing by beneficiaries

Master Plan

Main Subject for Process

➤ Regional Contingency Planning

- ❑ Oil Spill, Chemical Materials and Hazardous Materials
- ❑ Action Plan for Response to Radiological and Nuclear Emergencies
- ❑ MEHRAS

➤ Establishment of the Marine Emergency Response and Salvage Co-ordination Unit (MERCUC) System

➤ MARPOL 73/78 Implementation

➤ BWM Implementation

➤ SAR

➤ Legal Instruments

Highlight Most Important Issues

Maritime Emergency Response and Salvage Co-ordination Unit

MERCU

Objectives

- Protect the Marine Environment
- Raise the Regional level of Preparedness
- Availability of Emergency Fund
- Availability of EEZ Oil Pollution Combating Principle

The Advantages of MERCU

1. The availability of the service 24h/365d
2. Raise level of preparedness
3. Easy and simple execution for the Regional Contingency Plan
4. Solve the problem of oil pollution in exclusive economic zones (EEZ) and International waters
5. Less burden on Member States in terms of investment in Preparedness, training and drill exercises
6. The availability of Fund for Emergency and Funding different Regional Environmental Programs
7. Service fee for shipping is relatively so small, but reasonable to establish the system.



Thank you

Marine Emergency Mutual Aid Centre