



**The Regional Organization for the  
Conservation of the Environment of the  
Red Sea and Gulf of Aden - PERSGA**

**PERSGA Training Programme 2009**

PERSGA "***The Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden***" is an intergovernmental organization dedicated to the conservation of the coastal and marine environments in the Region.

PERSGA's legal basis stems from Article XVI of the Regional Convention for the Conservation of the Red Sea and Gulf of Aden, known as the Jeddah Convention, signed in 1982: "A Regional Organization for the Conservation of the Red Sea and Gulf of Aden Environment, the permanent headquarters of which shall be located in Jeddah, Saudi Arabia, is hereby established". It was not until September 1995, however, with the signing of the Cairo Declaration during the First Council Meeting in Egypt, that PERSGA's creation was formally announced. Falling under the umbrella of the Arab League, PERSGA has since become recognized as one of the leading marine conservation organizations operating in the Red Sea and Gulf of Aden region.

The PERSGA member states are Djibouti, Egypt, Jordan, Saudi Arabia, Somalia, Sudan and Yemen.

Address:

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## PERSGA Training Programme 2009

### 1. Programme objectives-Investing in human capital

Management of marine and coastal environments is a multidisciplinary task that requires technical, communication and consultation skills as well as strategic planning, risk management and information management capabilities. Therefore, capacity building of human resources is fundamental for a successful management of coastal and marine environments. Jeddah Convention 1982 and its Action Plan calls for the need to develop an integrated management approach to the use of the marine environment and the coastal areas and the development of principles and guidelines for coastal area development and management through workshops and seminars.

**The implementation of PERSGA's training activities is aligned with the Jeddah Convention (1982), Article XIX (1-g)**

*"1- the General Secretariat shall have the duties and powers necessary to achieve the purposes of this Convention and its protocols the action plan , decisions of the Council. and in particular :*

- g- To organize and co-ordinate training programmes in areas related to the implementation of this Convention, its protocols and the action plan."*

**, as well as the 1982 Action Plan, Part II, Articles 19**

*"19 - As part of the activities and programmes for regional Cooperation mentioned in paragraphs 17and 18 , an extensive training programme should be developed for personnel from the Region . Such programme may be executed through training at existing national, regional or international institutions ready to offer their facilities."*

Chief Among its activities, capacity building is a cross cutting function of PERSGA. Capacity building activities of PERSGA programs are geared towards improving the performance of all stakeholders in the region, particularly PERSGA Focal Points, aiming at reaching the optimum goals as laid down in the Jeddah convention-1982.

## 2. Training courses and schedule

### General Training- PERSGA HQ in Jeddah

PERSGA will offer a number of multidisciplinary training workshops that intersects with all PERSGA programmes and activities in the year of 2009 as per the following schedule:

#	Title of training	Duration	Deadline for Application	Location	Fees (US\$)
1.	Guidelines for Economic Valuation of Coastal and Marine Habitats in the Red Sea and Gulf of Aden	March 23-25	Feb 18	PERSGA HQ Jeddah-KSA	250
2.	Sustainable Development Indicators for the Marine and Coastal Ecosystems	May 11-13	April 15	PERSGA HQ Jeddah-KSA	250
3.	Environmental Education	June 7-9	May 20	PERSGA HQ Jeddah-KSA	250
4.	Ecosystem Approach to Fisheries Management	Oct. 12-14	Sep 09	PERSGA HQ Jeddah-KSA	250
5.	Quality Assurance and Control in Seawater Monitoring	Nov 15 -17	Oct 14	Jordan	250
6.	Modeling and Control of Chemical Spills	Dec 19-21	Nov 20	PERSGA HQ Jeddah-KSA	250

### Specialized Training – Navigation & Maritime Pollution – PERSGA / MEMAC

The Red Sea and Gulf of Aden carry a significant ratio of the global seaborne trade and crude/ refined oil cargoes. The Region is thus, constantly under threats of pollution by oil spills and maritime accidents. PERSGA has designed its Navigation and Maritime Pollution Combating Programme to increase the safety of shipping in the RSGA Region and to introduce measures to reduce risks and impacts of marine pollution. The Regional Action Plan for Contingency Planning provides the framework through which states agreed to cooperate with each other in the event of a major oil spill or other pollution events that require regional response. The PERSGA-MEMAC (Marine Emergency Mutual Aid Centre), is aligned with the implementation of the Regional Contingency Plan through coordinating pollution prevention and control mechanisms among PERSGA Member States, fostering collaboration, and assisting States in strengthening national capacities.

The Action Plan proposes a comprehensive programme for training to build and promote capacities involved in its implementation in the region. In 2009, PERSGA will offer a number of specialized training workshops related to navigation and maritime pollution at the PERSGA/MEMAC as per the following schedule:

#	Title of training	Duration	Deadline for Application	Location	Fees (US\$)
1.	Oil Spill Sensitivity Mapping	April 27-29	March 10	PERSGA/MEMAC Hurgada-Egypt	250
2.	'On-Scene Commanders' at oil spills, National Contingency Plans and Oil spill preparedness and response	June 20-23	April 31	PERSGA/MEMAC Hurgada-Egypt	250
3.	Status of Contingency Planning in the PERSGA Region	June 24-25	April 31	PERSGA/MEMAC Hurgada-Egypt	250
4.	Requirements of Special Areas Under MARPOL Convention	Nov 2-4	October 1	PERSGA/MEMAC Hurgada-Egypt	250

### 3. Application process

#### *Who Can Participate?*

This training programme is specially designed and organized for applicants from PERSGA member countries with special qualifications for each training course.

Those outside the Red Sea and Gulf of Aden region with their own funding source can also apply.

#### *How to participate:*

Please note the deadline for application of each course in the schedule above; applications submitted after closing date will not be considered

#### **a. Participants from PERSGA Countries (Red Sea and Gulf of Aden)**

Interested applicants must:

- Complete the application form (attached) in typewritten format and duly signed. The application form can be downloaded from the PERSGA website at [www.persga.org/training](http://www.persga.org/training); by writing to PERSGA at ([information@persga.org](mailto:information@persga.org)); and or by contacting the PERSGA national Focal point;
- Submit the application form, together with updated CV and recent passport copy, to PERSGA (fax: 00966 2 6521901 or scan and email to: [information@persga.org](mailto:information@persga.org)) at or before the deadline of submission for each training programme. Applications received after the deadline will not be considered;
- PERSGA will evaluate the applicant's qualifications and credentials and send an official acceptance to those who are qualified to participate in the training courses. PERSGA will also inform the Focal points of the list of accepted applicants from their respective countries. The selection will be based on a special criteria designed for each course.

**b. Participants from non- PERSGA countries should:**

Interested applicants must:

- Write to the PERSGA Secretary General and indicate which training courses the participant would like to attend.
- Indicate the sponsoring agency or funding sources which will support the applicant's participation in the training course(s).
- PERSGA will evaluate the applicant's qualifications and credentials and send an official acceptance to those qualified to participate in the training course(s).

## 4. Logistics

PERSGA will send a logistic note to each participant prior to the workshop. However, in general PERSGA will assist the applicants in the following:

### *Visa*

PERSGA will assist the applicants in acquiring the appropriate visa required for his/her stay.

### *Travel*

For participants funded by PERSGA, economy class travel ticket through the most direct route to the venue of the training will be provided.

### *Accommodation*

PERSGA will assist in providing hotel reservations. However, participants should be responsible to pay their own hotel bills.

### *Insurance*

PERSGA will **not** provide any insurance coverage. Participants in this training are expected to arrange their own insurance without any related commitment by PERSGA.

## 5. Cost of participation

The cost of each training is divided between participation fee (as per the above schedule), accommodation cost and regional/international travel costs to and from the training location. The participation fee covers all training cost such as lectures, training materials, field visits and certain social activities as well as accommodation costs include board and lodging. Personal expenses are not included.

### *Funding Support*

- a. PERSGA may provide funding to support qualified applicants from the region (1 or two from each PERSGA Member States) who were **officially nominated** by the PERSGA Focal Points. Funding will cover fees, hotel accommodation, round trip airfare and meals.

#### *Per Diem Allowance*

According to the authorized direct route, participants funded by PERSGA will be paid a lump sum allowance in accordance to PERSGA's Financial Rules and Regulations. This allowance is intended to cover accommodation costs, meals,

gratuities and any other incidental expenses during the period of the training. No expenses other than this allowance are reimbursable.

- b. For other accepted applicants from the region PERSGA will cover course fees only; they have to fund their travel and accommodation costs.
- c. Applicants from countries outside the PERSGA region can also participate in the program provided they have their own funding support.

## **6. For more information:**

Please visit our website ([www.persga.org](http://www.persga.org)) regularly for updated information.

Alternatively, please you can contact us at:

**Postal address:**

PERSGA


P.O. Box 53662

Jeddah 21583, Saudi Arabia

**Tel:** 00966 2 6573224

**Fax:** 00966 2 6521901

**Email:** [information@persga.org](mailto:information@persga.org) ■

	<h2>Training Programme 2009 The Application Form</h2>
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Title of training

**Personal details**

Mr.  Ms.  Name

Passport no.  Validity

Organization

Country  City

Position

Address

Telephone  Mobile

Fax  E-mail

Educational Qualifications

Years of Experience (since the last degree obtained)

Relevance of the training to your current work

Similar Training attended

Funding Source (if not supported by PERSGA)

Name & Signature of Focal Point

Applicant Signature  Date of submission





## Training Programme 2009

### Fact sheet – Regional Guidelines Economic Valuation of Coastal and Marine Resources

#### Title of the course:

Training on Economic Valuation of Tropical Coastal and Marine Resources

#### Rationale

##### The Consolidated Jeddah Convention (1982)

##### The Action Plan For the Conservation of the Marine Environment and Coastal Areas in the Red Sea and Gulf of Aden - 1982

*"Article 17- Continuous socio-economic development can be achieved on a sustainable basis if environmental considerations are taken into account. To assist the Governments of the Region in the development of the appropriate policies and strategies for conservation of the marine environment of the Red Sea and the Gulf of Aden, the Action plan should aim to carry out the following preparatory activities:*

*17-2- Assessment of present and future development activities and their environmental impact in order to evaluate the degree of their influence on the environment and to find appropriate measures to either eliminate or reduce any damaging effects which they may have. "*

The PERSGA Framework and Operational Programme calls for mainstreaming the environment into major socio economic sectors. Its overall approach will strengthen the capacities of PERSGA countries to deal with the most urgent issues related to management of coastal and marine resources, including strengthening the capacity to assess economic value of coastal and marine ecosystem. The analytical economic valuation will serve as an indicator for assessing environmental sustainability, as claimed in the targets of the Millennium Development Goals, which call for integrating environment into policies, programs and projects.

The Jeddah Declaration adopted by the Global 9<sup>th</sup> Regional Seas Conventions and Action Plans has resolved (in Article 11) to integrate and mainstream economic valuation of ecosystem services provided by coastal and marine ecosystem to support sustainable approaches in addressing environmental management priorities. The Regional Seas Directions for 2008-2012 has also recognized (in Article 9) the need for economic valuation of marine and coastal ecosystem services for decision making and policy formulation.

Addressing this topic, PERSGA has organized a regional workshop in 2008, through which participants from the region were trained on principles and methods of economic valuation of environmental assets. In order to mainstream economic valuation in regional and national management and planning targeting coastal/marine environments, it has been recommended that a valuation tool and guidelines appropriate for the region shall be developed. Such guidelines should clarify how the valuation should be conducted; and look at how valuation should be used to examine the following four distinct aspects of the value of ecosystems in PERSGA region:

- Determining the value of the total flow of benefits from ecosystems;
- Assessing the costs and benefits of ecosystem management;
- Determining the net benefits of interventions that alter ecosystem conditions;
- Identifying potential financing sources for conservation.

PERSGA is currently developing a "Regional Guidelines for Economic Valuation of Marine Environmental Assets in the Red Sea and Gulf of Aden" in cooperation with UNEP/ROWA. To facilitate implementation of the guidelines, training of trainers and specialists at regional and national levels must be conducted.

## **Objectives**

To train trainers on "the Regional Guidelines for Economic Valuation of Marine Environmental Assets in the Red Sea and Gulf of Aden", recently developed by PERSGA in cooperation with UNEP/ROWA

## **Participants**

Participants of this meeting will be selected based on their qualifications; they should be academicians or trainers at training departments of environment, finance or economy ministries; local authorities and agencies working in the field of coastal and marine management and the private sector.

The total expected number for this course is not to exceed 25 participants.

## **Date and Duration**

The duration of the course is three working days, and it will be conducted during **March 23-25, 2009**.

## **Location**

PERSGA HQ, Jeddah - Kingdom of Saudi Arabia.

## **Organizers**

The Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden – PERSGA.

## **Language**

The training language is English. However, translation into Arabic will be available.

## **Training Materials/References**

*Details to be provided at a later stage*

## **Instructors/Keynote speakers**

*Details to be provided at a later stage* ■



## Training Programme 2009

### Fact sheet - Oil Spill Sensitivity Mapping

#### Title of the course:

Training on "Oil Spill Sensitivity Mapping".

#### Rationale

The Regional Action Plan on Contingency Planning for the Region provides the framework through which states agree to cooperate with each other in the event of a major oil spill or other event that requires a regional rather than a national response.

The newly-established Marine Emergency Mutual Aid Centre (PERSGA-MEMAC) is aligned with the implementation of the Regional Contingency Plan. The MEMAC acts as a Regional resource to coordinate pollution prevention and control mechanisms among PERSGA Member States, foster collaboration, and assist States in strengthening national capacity.

Furthermore, the Action Plan proposes a comprehensive programme for training at various levels; e.g. for 'On-Scene Commanders' at oil spills, and in specialized areas such as 'oil spill mapping' and 'coastal sensitivity mapping'.

#### Objectives of the meeting

The making of sensitivity maps – and keeping them up to date – is a key activity in the contingency planning process. The maps should be based on surveys of the coastline and should be designed to achieve two principal aims. First, the maps should identify, and ideally place in order of priority, environmentally sensitive areas, which would have priorities for protection in the event of a major spill. Secondly, the maps should classify the coastline according to the type of beach (e.g. sandy, pebbles, rocks, cliffs, etc.) since the clean up methods will vary depending upon the type of shoreline that needs to be cleaned.

Sensitivity maps can either be on paper or the data can be contained within a Geographic Information System (GIS). The results of the sensitivity mapping process should either be contained in, or linked to, the National Contingency Plans.

#### Participants

Participants of this workshop will be the national officials responsible for combating oil pollution in emergencies at the regional level.

The total expected number for this course is not to exceed 25 participants.

## Date and Duration

The duration of the course is three working days, and it will be conducted during **April 27-29, 2009**.

## Location

PERSGA – MEMAC, Hurgada, Egypt.

## Organizers

The Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden – PERSGA

The International Maritime Organization (IMO)

## Language

The training language is English. However, translation to Arabic will be available.

## Training Materials/References

To be provided later.

## Training Sessions (Schedule)

### Outline Programme for the Regional Workshop On Sensitivity Mapping

The following is a suggested outline program (3 days) for the Regional Workshop on Sensitivity Mapping. It should be taken as a guide for the workshop and can be modified as required.

1. Introduction to sensitivity mapping: value and uses
2. Designing maps for particular uses
3. Inventory maps: resource categories and information sources
4. Strategy planning and response maps: features and information sources
5. Information: collection and collation
6. Simple mapping exercise
7. Formatting maps for ease of use
8. Using aerial photography
9. Linking sensitivity maps with contingency plans
10. Sensitivity and vulnerability of resources to oil spills
11. Categorising and prioritising resources
12. Vulnerability indices and the ESI method
13. Mapping exercise
14. Formatting maps for ease of use
15. Additional information linked to maps
16. GIS sensitivity mapping

17. Principles of GIS construction and use in oil spill applications
18. Planning an oil spill sensitivity GIS programme
19. Introduction to MAPEDIT or other mapping system
20. Demonstration: GIS map manipulation
21. Hands-on exercise 1
22. Overview of oceanographic approach to oil spill modelling
23. Strategy for oceanographic database establishment
24. Demonstration: basic GIS map editing
25. Hands-on exercise 2
26. Introduction to GIS construction
27. Defining layers and creation of objects/symbols
28. Digitising new objects
29. Hands-on exercise 3
30. Importing digital data
31. Object properties
32. Object attributes
33. Single point operations
34. Course summary
35. Question and answer session

### **Instructors/Keynote speakers**

*Details to be provided at a later stage* ■



## Training Programme 2009

### Fact sheet – Sustainable Development Indicators For the Red Sea and Gulf of Aden Region

#### Title of the Course:

Training on *“Developing Sustainable Development Indicators for the Marine and Coastal Ecosystems of the PERSGA Region”*.

#### Rationale

##### The Consolidated Jeddah Convention (1982)

##### The Action Plan For the Conservation of the Marine Environment and Coastal Areas in the Red Sea and Gulf of Aden - 1982

*“Article 17- Continuous socio-economic development can be achieved on a sustainable basis if environmental considerations are taken into account. To assist the Governments of the Region in the development of the appropriate policies and strategies for conservation of the marine environment of the Red Sea and the Gulf of Aden, the Action plan should aim to carry out the following preparatory activities:*

*17-2- Assessment of present and future development activities and their marine environmental impact in order to evaluate the degree of their influence on the environment and to find appropriate measures to either eliminate or reduce any damaging effects which they may have. ”*

The PERSGA Framework and Operational Programme calls for mainstreaming environment into sustainable approaches to coastal/marine management and development in the RSGA Region. Sustainable management and use of marine and coastal ecosystems will be reflected in reduced threats to the environment, improved livelihoods of participating coastal communities and improved institutional, legal and financial arrangements.

PERSGA aims to help create a situation where environmental stewardship becomes embedded in both practice and policy within the RSGA Region. To do so successfully, PERSGA must address the overlapping issues affecting the environment, including the human-environment interaction, and accordingly develop mechanisms to monitor the Region's performance and extent of sustainability in these regards.

Sustainable use of coastal and ocean areas and their resources must involve the consideration of governance, ecological (including environmental) and socioeconomic dimensions, as well as the interaction between them; this must form the basis of ICZM programmes. Therefore, monitoring and evaluation of

ICZM programmes rely on the use of indicators classified as governance, ecological and socioeconomic indicators, reflecting the three dimensions of ICZM. The application of indicators in ICZM is still in its early stages. While environmental indicators have long been used to monitor the state of the coastal and marine environment, socioeconomic indicators have encountered very limited application, and governance indicators have been applied mainly in reporting of the management process. A great challenge lies in developing appropriate sets of governance, ecological and socioeconomic indicators that will allow decision-makers to determine whether ICZM interventions are achieving their intended goals.

## Objectives of the Meeting

The workshop will train participants on how to develop an RSGA-specific Sustainable Development Index (SDI) for the Region's marine and coastal Ecosystems.

As a starting point, participants will review existing models of environmental and sustainable development assessment, primarily those outlined in the *2005 Environmental Sustainability Index* (Yale Centre for Environmental Law and Policy) and *A Handbook for Measuring the Progress and Outcomes of Integrated Coastal and Ocean Management* (the UNESCO International Oceanographic Committee). Based on this, participants will then identify and consolidate a Regionally-responsive list of indicators that can be used to design an SDI for the marine/coastal Ecosystems of the PERSGA Region.

Establishing the PERSGA-SDI is critical to assessing the sustainable development and environmental stewardship of the PERSGA Member States, to allow a point of comparison among them and with other areas in the world, and to provide a gauge and warning mechanism for trends over time. As such, an SDI is significant for informing the management cycle and identifying priority actions that should be implemented to avoid potential downturns in Regional sustainability.

## Participants

Participants of this meeting will be selected based on their qualifications. Participants should be representatives from local authorities and agencies in the Region who work in the field of coastal and marine management as well as in the private sector.

The total expected number for this course is not to exceed 20 participants.

## Date and Duration

The duration of the training will be three working days, and it will be conducted during **May 11-13, 2009**.

## Location

PERSGA HQ, Jeddah - Kingdom of Saudi Arabia.

## Organizers

The Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden – PERSGA.



## **Language**

The training language will be English. However, translation into Arabic will be made available as needed.

## **Training Materials/References**

*Details to be provided at a later stage .*

## **Training Sessions (Schedule)**

*Details to be provided at a later stage*

## **Instructors/Keynote speakers**

*Details to be provided at a later stage* ■



## Training Programme 2009

### Fact sheet – Environmental Education

#### Title of the course:

Training on Environmental Education.

#### Rationale

##### The Consolidated Jeddah Convention (1982)

##### Protocol Concerning the Conservation of Biological Diversity and the Establishment of Network of Marine Protected Areas in the Red Sea and Gulf of Aden - 2005

*"Article 22.1- Contracting Parties shall endeavor to inform the public of the value and vulnerability of protected areas and species. Such information may be included in education programs. Contracting Parties shall also endeavor to promote the participation of their public and their conservation organizations in measures that are necessary for the protection of the areas and species concerned.*

*"Article 25.2- The organization shall provide training of national specialists, particularly for implementation of this protocol"*

*"Article 25.4- The organization shall develop a regional awareness program in cooperation with the contracting parties"*

Interaction between man and the environment has started since his appearance on earth. In the past times the limited human needs were within the carrying capacity of the ecosystem so that no significant impacts on the environment were exerted. The last two centuries have witnessed large population growth and huge industrial development, which dramatically increased human needs. This has increasingly posed pressure on the environment, culminating in the currently experienced environmental degradation. Recently, the role of environmental education has been well recognized as extremely important to publicizing environmental protection programs and bestowing people the perception required to positively interact with the environment.

Raising public awareness is indispensable for protection of the environment and natural resources in the coastal areas. There are additional benefits, such as participation of local communities in conservation management and programs. Despite the costs, many countries including the developed ones run public awareness

programs, which proved to be valuable and effective in removing threats to marine/coastal environment, and enhance people participation in sustaining environmental conservation management. Most of the environmental problems

manifest because of the lack of sufficient awareness among people, stakeholders, and government officials. Educators have a prime role in mainstreaming environmental awareness in curricula, developing and implementing environmental awareness programs.

The PERSGA Framework and Operational Program calls for mainstreaming the environment, into major socio economic sectors. Its overall approach will strengthen the capacities of PERSGA countries to deal with the most urgent issues related to Integrated Coastal Zone Management (ICZM), including strengthening the capacity for environmental awareness and education.

## **Objectives**

The workshop aims at training specialists from the region on methods of developing and implementing environmental education programs. It will thus contribute to building capacities in the member states to support national programs in general and implementing the Jeddah Convention, the Regional Action Plan and the Regional Protocols in particular.

## **Participants**

Participants of this meeting will be selected based on their qualifications; they should be representatives from educational and public awareness institutes, local authorities and agencies working in the field of coastal and marine management.

The total expected number for this course is not to exceed 25 participants.

## **Date and Duration**

The duration of the course is three working days and it will be conducted during **June 7-9, 2009**.

## **Location**

PERSGA HQ, Jeddah - Kingdom of Saudi Arabia.

## **Organizers**

The Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden – PERSGA  
Gulf Cooperation Council - GCC

## **Language**

The training language is English. However, translation to Arabic will be available.

## **Training Materials/References**

*Details to be provided at a later stage*

## **Instructors/Keynote speakers**

*Details to be provided at a later stage* ■



## Training Programme 2009

### Fact sheet - On-Scene Commanders' at oil spills, National Contingency Plans and Oil Spill Preparedness and Response

#### Title of the course:

Training on "On-Scene Commanders' at Oil Spills, National Contingency Plans and Oil Spill Preparedness and Response".

#### Rationale

##### The Consolidated Jeddah Convention (1982)

The Contracting Parties shall:

"...[formulate] national contingency plans for combating oil pollution...[and] shall co-ordinate their national plans for combating pollution in the marine environment by oil and other harmful substances in a manner that facilitates full co-operation in dealing with pollution emergencies..." (Jeddah Convention, Article IX "Co-operation in Dealing with Pollution Emergencies", Point 1 and 3)

"...cooperate in taking the necessary and effective measures to protect the coastline and related interests of one or more of the Parties from the threat and effects of pollution due to the presence of oil or other harmful substances in the marine environment resulting from marine emergencies..."(Oil Protocol, Article II):

"...individually or jointly, take all necessary measures, including those to ensure that adequate equipment and qualified personnel are readily available, to deal with pollution emergencies in the Sea Area, whatever the cause of such emergencies, and to reduce or eliminate damage resulting therefrom..." (Action Plan, Part II "Environmental management", Point 18.6)

PERSGA has established the Marine Emergency Mutual Aid Centre (MEMAC) on the basis of the Protocol concerning Regional Co-operation in Combating Pollution by Oil and Other Harmful Substances in Cases of Emergency annexed to Jeddah Convention of 1982.

The major objective of MEMAC is to build the capacities of the countries in the region and to coordinate among them in contingency cases as well as to develop their national capabilities in combating oil pollution.

PERSGA organized several workshops on Marine Contingency Planning. The present workshop will be convened to further peruse the objectives of the

previous ones, aiming at continuous improvement of the involved regional capacities, and performing regular exercises on communication and equipment deployment during emergencies.

## **Objectives**

To enhance the capacities of the member countries and to improve the overall performance of the focal points at the regional level with respect to the implementation of the contingency plans during emergencies through:

- Updating information and data
- Performing regular exercises on communication and equipment deployment during emergencies.

## **Participants**

Participants of this workshop will be the national officials responsible for combating oil pollution in emergencies at the regional level.

The total expected number for this course is not to exceed 25 participants.

## **Date and Duration**

The duration of the course is three working days, and it will be conducted during **June 20-22, 2009**.

## **Location**

PERSGA – MEMAC, Hurgada, Egypt.

## **Organizers**

The Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden – PERSGA .

## **Language**

The training language is Arabic.

## **Training Materials/References**

The Regional and National Contingency Plans of the member countries; PERSGA-MEMAC database; trajectory models

## **Training Sessions**

**The preliminary agenda of the workshop include:**

- Specialized lectures on contingency planning and the Regional Action Plan
- National reports; and updating data and information
- Review the procedure form for pollution accident proclamation at the national and regional levels
- Discussing the effectiveness and mechanisms of the regional communication network, based on PERSGA-MEMAC.

- Training on pollutants trajectory models
- Develop the annual schedule for communication and equipment deployment exercises.
- Recommendations

### **Instructors/Keynote speakers**

*Details to be provided at a later stage* ■



## Training Programme 2009

### Fact sheet –Review of the Status of Contingency Planning in the Red Sea and Gulf of Aden

#### Title of the course:

Regional Workshop on the Review and Improvement of “The Regional Oil Spill Contingency Plan”.

#### Rationale

##### The Consolidated Jeddah Convention (1982)

The Contracting Parties shall:

“...[formulate] national contingency plans for combating oil pollution...[and] shall coordinate their national plans for combating pollution in the marine environment by oil and other harmful substances in a manner that facilitates full co-operation in dealing with pollution emergencies...” (Jeddah Convention, Article IX “Co-operation in Dealing with Pollution Emergencies”, Point 1 and 3)

“...cooperate in taking the necessary and effective measures to protect the coastline and related interests of one or more of the Parties from the threat and effects of pollution due to the presence of oil or other harmful substances in the marine environment resulting from marine emergencies...”(Oil Protocol, Article II):

“...individually or jointly, take all necessary measures, including those to ensure that adequate equipment and qualified personnel are readily available, to deal with pollution emergencies in the Sea Area, whatever the cause of such emergencies, and to reduce or eliminate damage resulting therefrom...” (Action Plan, Part II “Environmental management”, Point 18.6)

The revised PERSGA/IMO “Action Plan for the Development of National Systems and Regional Mechanisms for Preparedness and Response to Major Marine Oil Spills in the Red Sea and Gulf of Aden” June 2005, provides structured program of interventions to develop national plans and systems in countries that do not yet have these, and to establish a regional mechanism for achieving a coordinated response to any major spills. PERSGA has also assisted some countries to develop National Contingency Plans, and always pursues supporting member states to establish capable national systems.

PERSGA has established PERSGA-MEMAC to enhance regional cooperation and coordination in the matter of pollution spill preparedness and response. As the PERSGA-MEMAC is not a provider of oil spill combating equipment, such function is supposed to be appropriate to a regional network of national systems. Regular review and updating the Contingency Plans is necessary to cope with the rapid

coastal development in and the ever-growing maritime activities in the region. Also, such regular meetings will assist in enhancing implementation through discussing impediments and find out possible way out mechanisms.

### **Objectives of the meeting**

The workshop will discuss and review the status of contingency planning in the light of the Regional and National plans developed. This aims at enhancing implementation, identify gaps, and discuss proposals for development of new plans, in countries not having Contingency Plans yet, and updating of the existing ones, to be in consistent with the Regional Convention, Protocols and Action Plan requirements.

### **Participants**

Participants of this workshop will be the national officials responsible for combating oil pollution in emergencies, and implementing national contingency plans.

The total expected number for this course is not to exceed 25 participants.

### **Date and Duration**

The duration of the course is two working days and will be conducted during **June 23-24, 2009**.

### **Location**

PERSGA – MEMAC, Hurgada, Egypt.

### **Organizers**

The Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden – PERSGA.

### **Language**

The training language is Arabic.

### **Training Materials/References**

*Details to be provided at a later stage.*

### **Instructors/Keynote speakers**

*Details to be provided at a later stage* ■





## Training Programme 2009

### Fact sheet – Ecosystem Approach to Fisheries Management in the Red Sea and Gulf of Aden

#### Title of the course:

Regional Training on "Ecosystem Approach to Fisheries management in the Red Sea and Gulf of Aden"

#### Rationale

The fisheries of the Red Sea and Gulf of Aden are of considerable socio-economic importance in terms of national food security and income generation for rural communities. Fisheries resources are exploited by artisanal subsistence fishermen, local commercial fisheries and foreign industrial fisheries targeting invertebrates, demersal finfish and pelagic finfish. Threats to the Region's living marine resources are posed by a number of factors such as habitat destruction, over-fishing, and the risks from various kinds of land-based and sea-based pollution. The Living Marine Resources of the Red Sea and Gulf of Aden have been targeted by major PERSGA activities through various components and programs, aiming at improving LMR management capacities in the region.

In the context of sustainable development, responsible fisheries management must consider the broader impacts of fisheries on the ecosystem as a whole, not just a targeted species. Ecosystem Approach to Fisheries (EAF), in effect, is a way to implement sustainable development in a fisheries context. However, to implement EAF it is necessary to translate principles into operational objective and action (FAO 2003). Several efforts have been done (e.g. FAO) to formulate strategies and guidelines to make EAF operational, which generally explain, beside the principles of EAF, the stepwise processes to shift from traditional management to EAF based management.

Coinciding with its mission and in light of a number of international instruments, agreements and conference (e.g. WSSD 2002, Regional Seas' Jeddah Declaration and Strategic Directions 2007), PERSGA is striving to implement EAF based management in the Red Sea and Gulf of Aden. An essential requirement for EAF implementation is building capacities to ensure that the bodies responsible for management are able to shift to and successfully implement EAF in the region.

#### Objectives of the meeting

The main objective of the workshop is to train participants on strategies for implementing EAF, based on guidelines developed by FAO and other best available knowledge. Participants will also discuss the status of fisheries management in the Region, with regard to the obstacles to and requirements for adherence to EAF.

## Participants

Participants of this workshop will be the national officials responsible for Fisheries Management and relevant stakeholders.

The total expected number for this course is not to exceed 25 participants.

## Date and Duration

The duration of the course is three working days and will be conducted during **October 12-14, 2009**.

## Location

PERSGA HQ, Jeddah, KSA.

## Organizers

The Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden – PERSGA.

## Language

The training language is English. Arabic will be used as an auxiliary medium where appropriate

## Training Materials/References

*Details to be provided at a later stage.*

## Instructors/Keynote speakers

*Details to be provided at a later stage* ■



## Training Programme 2009

### Fact sheet – Requirements of Special Areas under MARPOL 73/1978

#### Title of the workshop:

Regional Workshop on “MARPOL 73/78 and the Ratification of the Red Sea and Gulf of Aden as Special Areas”.

#### Rationale

The Red Sea and the Gulf of Aden (RSGA) have been designated by the International Maritime Organization (IMO) as Special Areas under the International Convention for the Prevention of Pollution from Ship 1973 as modified by the Protocol of 1978 relating thereto, known as MARPOL 73/78. The purpose of a Special Area is the prevention of pollution of the sea in these areas because of their particular sensitivity or other factors. According to MARPOL 73/78 Annex I, Regulation 10(4)b, the discharge of any oil or oily mixture, or chemicals into the sea in a Special Area is prohibited; oil and oily mixture must be retained on board or discharged into reception facilities in ports.

The Red Sea was adopted by IMO as Special Area under Annexes I & V in 1973, entered into force in 1983 for Annex I and 1988 for Annex V; while the Gulf of Aden was adopted as Special Area under Annex I in 1987, entered into force in 1989. However, the designations of the Red Sea and Gulf of Aden as Special Areas under MARPOL are not yet effective. This is because the States in the region have not yet been able to advise IMO that they have established suitable reception facilities for ships calling at their ports as required by MARPOL 73/78 for ports within Special Area. Also, some States bordering the RSGA have not yet become parties to MARPOL 73/78.

In view of the importance to the Region that the remaining States becoming parties to MARPOL 73/78, PERSGA has been helping to support this process. In 2005 PERSGA conducted a fact finding mission and technical workshop on the MARPOL 73/78 requirements in the region. The present workshop is another step forward in PERSGA's efforts to determine adequate reception facilities needed in the region. The workshop will join specialists from PERSGA member States to discuss and exchange experience and identify the regional needs of adequate reception facilities and the most feasible manner to make these facilities available.

#### Objectives of the workshop

The main objective of the workshop is to discuss the difficulties facing the activation of the Red Sea and Gulf of Aden as Special Areas under MARPOL 73/78; and to identify feasible mechanism to facilitate the activation.

The specific objectives of the workshop are to:

- Update information on existing reception facilities and ship traffic in the region through National Reports.
- Identify the need of additional reception facilities at a regional level.
- Identify the most feasible manner to have the additionally needed reception facilities available
- Identify other difficulties that might be facing countries that have not become parties to MARPOL73/78 convention yet
- Identify the best approach for applying to IMO to establish a date from which requirements that apply to ships when in the Special Area will become effective, offering much greater protection for the marine environment in the Red Sea and Gulf of Aden.

## **Participants**

For satisfactory achievement of the workshop's objectives, participants must be experts and actual practitioners, managers or decision makers in the field of maritime and ports management. Together with the application form every nominee will be asked to provide an extended abstract of his / her country report on reception facilities and ship traffic in the Red Sea or Gulf of Aden ports.

The total expected number for this course is not to exceed 20 participants.

## **Date and Duration**

The duration of the course is three working days and will be conducted during **November 2-4, 2009**.

## **Location**

PERSGA MEMAC Hurghada Egypt.

## **Organizers**

The Regional Organization for Conservation of the Environment of the Red Sea and Gulf of Aden – PERSGA.

## **Language**

The training language is English. However, translation to Arabic will be available.

## **Training Materials/References**

MARPOL 73/78 and its amendments. PERSGA/IMO Fact Finding Mission Report (2005); National reports.

## **Training Sessions (Schedule)**

Details to be provided at a later stage.

## **Instructors/Keynote speakers**

Details to be provided at a later stage ■



## Training Programme 2009

### Fact sheet – Quality Control and Quality Assurance of Monitoring Results

#### Title of the workshop

Regional Training Workshop on "Quality Control and Quality Assurance of Monitoring Results".

#### Rationale

Environmental monitoring is one of the most important tools of scientifically based management. Some countries in the Region have started regular monitoring programs of basic variables of the coastal environment since late nineties. PERSGA has been leading a regional effort in establishing a sustainable regional monitoring program since 2004. Significant steps, such as training of technicians and providing necessary equipment have been taken. Although all countries have produced monitoring data, such data for some countries are not regular and continuous. Efforts are continuing to have all PERSGA member states participating effectively in the regional monitoring program and their monitoring data flowing into the regional database maintained at PERSGA Headquarters.

Regional monitoring of coastal and marine monitoring is of a high spread nature both temporally and spatially. Monitoring data will not be of significant value in policy making and management practices, unless adequate procedural quality control and quality assurance were maintained. Specific quality control and quality assurance criteria need to be applied both at the national (individual institutes or laboratories) and at the regional levels.

Quality control and quality assurance need to be applied not only on data collection and analysis, but also on display of the results, which are processed data. This is because errors may be encountered even after good data has been collected if there was no proper labeling and adequate handling of the monitoring data. To this effect PERSGA is organizing this workshop to help its member states to maintain reliable results of their coastal and marine monitoring programs that can be effectively used in decision support and coastal management purposes.

#### Objectives of the workshop

The main objective of the workshop is to support laboratories and data managers working in coastal and marine monitoring to produce monitoring results of the required quality. The workshop will also help in establishing or improving quality assurance management in the laboratories concerned. Specific objectives include:

- Identify the purpose of the monitoring and the appropriate criteria for laboratory facilities, technicians, and analytical equipment to establish the required data quality.
- Establish definitive directions for appropriate collection, preservation, storage and transport procedures to maintain the integrity of samples prior to analysis; Identify suitable pre-treatment procedures prior to analysis of samples, to prevent uncontrolled contamination/ affecting the target variable in the samples.
- Validate analytical methods used in the different laboratories to ensure that measurements are of the required quality to meet the investigations.
- Identify appropriate methods of regular intra-laboratory checks on the accuracy of routine measurements, by the analysis of appropriate common samples, to assess whether the analytical methods are maintained under control, and the documentation and interpretation of the results are comparable.
- Perform a joint exercise of collecting and analyzing a common sample and test the deviation in the results.
- Identify common protocols in labeling and flow of data from the concerned laboratories to the data mangers and from the data managers to PERSGA.

## Participants

For satisfactory achievement of the workshop's objectives, participants must be experts and actually practicing laboratory technicians and data managers. Together with the application form every nominee will be asked to provide an extended abstract of his / her country report on collection, analysis and reporting of marine and coastal monitoring results.

The total expected number for this course is not to exceed 20 participants.

## Date and Duration

The duration of the course is three working days and will be conducted during **15-17 November 2009**.

## Location

PERSGA HQ, Jeddah - Kingdom of Saudi Arabia.

## Organizers

The Regional Organization for Conservation of the Environment of the Red Sea and Gulf of Aden – PERSGA.

## Language

The training language is English. Arabic will also be used as an auxiliary medium where appropriate.

## Training Materials/References

Laboratory manuals in actual use in laboratories involved in coastal and marine monitoring in the region; some other common references and literature on the subject

## **Training Sessions (Schedule)**

The workshop is fully interactive and all participants will be required to present case studies from their countries. One day will be devoted for samples collection and analysis. Half a day will be devoted for data analysis, tabulation, flowing into databases and presentation.

## **Instructors/Keynote speakers**

Details to be provided at a later stage



## Training Programme 2009

### Fact sheet – Modeling and Control of Chemical Spills in Coastal and Marine Environments

#### Title of the course:

Regional Training on "Methods of Modeling and Control of Chemical Spills in Coastal and Marine Environment"

#### Rationale

In accordance with its mission to facilitate implementation of Jeddah Convention, PERSGA shall enhance cooperation among member states, in taking the necessary and effective measures to protect the coastline from the threat and effects of pollution, by oil or other harmful substances that may result from marine emergencies.

The tonnage of chemicals exported and imported by countries of the region, and that in transit through the Red Sea is steadily rising. This suggests that incidents that could or would cause damage to the marine environment and risks to public health are distinctly probable. An essential requirement for Response and Contingency Plans implementation is building capacities to ensure that the bodies responsible for management are able to efficiently deal with such hazardous incidents of chemical spills. Acquainting methods of predicting the fate of chemical spills including trajectory models; chemical pollutants types, toxicity and reactivity; equipment and tool requirements etc., in addition on-scene drilling and exercise are important to ensure best preparedness and response performance.

#### Objectives of the meeting

The main objective of the workshop is to train participants on methods employed to chemical spill preparedness, response and control. The training will be based on best available knowledge and practices in this field, such as systems employed by HELECOM, and other US and European agencies.

#### Participants

Participants of this workshop will be the national officials responsible for Contingency planning, and maritime pollution response and control.

The total expected number for this course is not to exceed 25 participants.

#### Date and Duration

The duration of the course is three working days and will be conducted during **December 20-22, 2009.**



## **Location**

PERSGA HQ, Jeddah, KSA.

## **Organizers**

The Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden – PERSGA.

## **Language**

The training language is English. Arabic will be used as an auxiliary medium where appropriate

## **Training Materials/References**

*Details to be provided at a later stage.*

## **Instructors/Keynote speakers**

*Details to be provided at a later stage* ■