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**REGIONAL MARINE POLLUTION EMERGENCY
RESPONSE CENTRE FOR THE MEDITERRANEAN SEA
(REMPEC)**



MEDITERRANEAN ACTION PLAN

**REGIONAL WORKSHOP
ON PREVENTION AND CONTROL OF
OPERATIONAL POLLUTION FROM SHIPS
IN THE MEDITERRANEAN REGION**

**Ancona, Italy
3 - 5 November 2004**

REPORT



*"Sailing boats in the Venetian Lagoon"
by Luciano Gasper (Italy)*

NOVEMBER 2004

INTRODUCTION

1. The Regional Workshop on Prevention and Control of Operational Pollution in the Mediterranean Region (hereinafter referred to as “the Workshop”) was convened in Ancona, Italy, between 3 and 5 November 2004. The Workshop was organized in conformity with the position taken by the 5th and 6th Meetings of REMPEC Focal Points that the Centre should utilize the funds made available through the Mediterranean Trust Fund for organizing seminars and workshops aimed at discussing current issues in the fields of prevention of, preparedness for and response to marine pollution from ships, rather than for organizing classical regional training courses.

2. Taking into consideration the need to give a strong and immediate impetus to actions related to prevention of pollution from ships, it was decided to organize the present Workshop by the end of 2004, with the funds which the 13th Meeting of the Contracting Parties to the Barcelona Convention, held in Catania, Italy, 11-14 November 2003 (UNEP (DEC)/MED IG.15/11) allocated for 2005, and move to 2005 a regional workshop or seminar on preparedness and response to marine pollution envisaged for 2004.

3. The Workshop was prepared bearing in mind several priority objectives of the Regional Strategy for prevention of and response to marine pollution from ships that were included in the Catania Declaration adopted by the 13th Meeting of the Contracting Parties, and further elaborated by the First Meeting of National Experts on the Regional Strategy for Prevention of and Response to Marine Pollution from Ships, held in Castelgandolfo (Rome), Italy, 8-10 July 2004 (REMPEC/WG. 23/7).

4. The Workshop was organized by the Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (REMPEC), with a strong financial and logistic support of the Italian Region of Marche and of the Municipality of Ancona. The financial support of the Italian sponsors enabled REMPEC to cover the costs of participation in the Workshop of two participants from each Mediterranean coastal State that is the member of the European Union and of three participants from each non-EU member coastal State.

5. Another important voluntary contribution was provided by the Ministry of Transport of the Federal Republic of Germany, which sent one of its marine pollution surveillance aircraft for the presentation at the Workshop.

6. The main objective of the Workshop was to increase the awareness among the Mediterranean countries of the problems related to operational pollution from ships, to inform the Mediterranean coastal States of the ongoing activities in other regional seas and within the European Union aimed at prevention and control of this type of pollution, to provide inputs for improvement and completion of REMPEC proposed CLEANMED project, and last but not least, to start enforcing specific recommendations of the Contracting Parties, as well as the relevant provisions of the Prevention and Emergency Protocol 2002 and of the Catania Declaration.

7. Prior to the Workshop REMPEC circulated to its national Focal Points a document containing an outline of the problems related to operational pollution from ships in the Mediterranean, as well as the CLEANMED project proposal.

8. REMPEC official Prevention Focal Points were invited to nominate participants in the Workshop. The invitation to attend was also extended to the Co-ordinating Unit of the Mediterranean Action Plan (UNEP/MEDU), the International Maritime Organization (IMO), and to a number of REMPEC partners among the international professional bodies and governmental and non-governmental organizations.

9. The following Contracting Parties to the Barcelona Convention attended the Workshop:

ALBANIA	FRANCE	MOROCCO
ALGERIA	GREECE	SERBIA & MONTENEGRO
BOSNIA & HERZEGOVINA	ISRAEL	SLOVENIA
CROATIA	ITALY	SPAIN
CYPRUS	LEBANON	SYRIAN ARAB REPUBLIC
EGYPT	MALTA	TUNISIA
THE EUROPEAN COMMUNITY	MONACO	TURKEY

10. The representatives of the United Nations Environment Programme/Co-ordinating Unit for the Mediterranean Action Plan (UNEP/MEDU) and of the International Maritime Organizations (IMO) also attended the Workshop, as well as the representative of ERS/RAC.

11. Observers from the following International governmental and non-governmental organizations were also present at the Workshop:

- Marevivo
- Mediterranean Information Office for Environment, Culture and Sustainable Development (MIO-ECSDE)
- Mediterranean Oil Industry Group (MOIG)
- Mediterranean SOS
- World Wide Fund for Nature (WWF)
- Regional Centre for Assistance and Disaster Relief (RCADR)

12. The representatives of the numerous Italian and Croatian national, regional and local scientific, technical and political bodies attended the Workshop too.

13. A complete list of participants is attached in **Annex I** to the present report.

PROGRAMME OF THE WORKSHOP

14. REMPEC prepared the programme of the Workshop, which is reproduced in **Annex II**, and selected and invited the speakers for the key topics addressed by the Workshop.

ORGANIZATION OF WORK

15. With a view to achieving the objectives of the Workshop, it was organized in such a way as to comprise both plenary sessions and Working Groups' sessions, in addition to a presentation of the German surveillance aircraft used for the control of pollution from ships in the North Sea and the Baltic Sea areas.

16. Plenary sessions were held in ERF Auditorium in Ancona, the Working Groups met in the conference rooms of Sporting Hotel, also in Ancona, while the presentation of the German aircraft was organized at the airport of Ancona.

17. Keynote presentations on main issues addressed by the Workshop were made in the plenary session on Day 1. In the morning of Day 2 the participants visited the German surveillance aircraft and in the afternoon started their work in three Working Groups, which continued in the morning of Day 3. The results of the Working Groups' deliberations were presented, discussed and conclusion agreed upon in another plenary session in the afternoon of Day 3.

18. Two side events, organized and sponsored by the Italian Region of Marche, also formed part of the Workshop and were held simultaneously with the Working Groups' sessions on Days 2 and 3. The first one discussed the environmental and economic issues of the Adriatic basin as seen by its western provinces, while the other addressed the sustainable development in the Adriatic.

WORKING LANGUAGES

19. Plenary sessions of the Workshop were conducted in English, French and Italian languages, while the Working Groups used only English and French languages. Simultaneous interpretation among these languages was provided for both the plenary sessions and for the sessions of the three Working Groups. The main working document concerning the CLEANMED project, prepared by REMPEC prior to the Workshop, was available in both official languages of the Centre, i.e. English and French, while the other documents were distributed in the languages used by the speakers.

20. The interpretation services, as well as the interpretation equipment, were provided by the Region of Marche as part of its contribution towards the Workshop.

OPENING OF THE WORKSHOP

21. The Workshop was opened on behalf of the organizers in the morning of 3 November 2004 at the ERF Auditorium of Ancona by its Coordinator, Cdr. G. Matteini, who welcomed the participants, presented the programme and introduced the speakers in the opening session.

22. Mr V. D'Ambrosio, President of the Region of Marche, welcomed the participants and stressed the importance that his Region attaches to the problem of operational pollution, in particular within the Adriatic Sea.

23. Mr E. Giancarli, President of the Province of Ancona, and Mr F. Sturani, the Mayor of Ancona, welcomed the participants on behalf of the Province and the City respectively, emphasizing that Ancona was honoured to host such an important Workshop and expressed their best wishes for its successful outcome.

24. Mr F. Valentini welcomed the participants on behalf of the Italian Ministry of the Environment.

25. Mr P. Mifsud, the Co-ordinator of the Mediterranean Action Plan confirmed in his inaugural address the great interest of UNEP/MAP in resolving the problem of operational pollution in the Mediterranean and stressed the strong need to take proper initiatives at the regional level. He took the opportunity to point out that issues related to maritime traffic and the Regional Strategy for the implementation of the 2002 Prevention and Emergency Protocol will both be components of the Mediterranean Strategy on Sustainable Development that is at present under preparation.

26. The opening session was concluded by the speech of R. Admiral Roberto Patrino, Director, REMPEC, who greeted the participants and highlighted the importance of the Workshop as a first step in comprehensively addressing prevention and in particular control of operational pollution in the Mediterranean at the regional level.

DAY 1 (3 November 2004) - PLENARY SESSION

27. The plenary sessions of the Workshop were chaired by Adm. R. Ferraro, who opened the session by introducing the speakers of Day 1.

28. R. Adm. R. Patrino, Director, REMPEC, was the first Speaker. He introduced the subject of the Workshop describing the problem of operational pollution in the Mediterranean Sea and highlighting the immediate need for proper actions to be taken especially due to the expected development trends of maritime traffic within the basin.

29. Prof. U. Leanza, from the University of Tor Vergata (Rome), Italy, presented the International and Regional legal framework with particular reference to MARPOL 73/78 and the 2002 Prevention and Emergency Protocol, as the principal legal instruments addressing prevention and control of operational pollution.

30. Mr D. Silvestre, representing the French Secretariat General of the Sea (*Secrétariat Général de la Mer*), introduced the recent developments in French legislation concerning the protection of the Mediterranean from ship-generated pollution, including the operational one, with particular emphasis on the establishment of an Ecologically Protected Area.

31. Dr F. Valentini, from the Italian Ministry of the Environment, presented an overview of the Italian policy for preventing operational pollution at sea and informed the Workshop that Italy was currently taking into consideration the establishment of Ecologically Protected Areas.

32. Capt. U. Bustorff, from the German Federal Marine Pollution Central Command for Maritime Emergencies, presented the current practices for aerial surveillance within the framework of Bonn Agreement and Helsinki Commission and illustrated the technical possibilities for detecting by aircraft operational pollution at sea.

33. Dr O. Trieschmann, from the Federal Institute of Hydrology, Germany, presented the European Union initiative that resulted in establishing a Group of Experts on satellite monitoring of sea-based oil pollution. The main objective of the Group, which constitutes a network of National contact points officially appointed by the EU Member States, is a comprehensive exchange of information, knowledge and expertise on the satellite monitoring of oil pollution at European level.

34. Mr J. Ostergaard, Senior Adviser on Marine Pollution at Marine Environment Division of IMO, illustrated the enforcement of MARPOL 73/78 and evidence gathering aimed at preventing and combating operational pollution at sea.

35. Mr T. De Lannoy, from EC-DG ENV, explained the role of EU mechanisms for prevention of, preparedness for and response to marine pollution from ships, with particular reference to the Mediterranean Sea.

36. Cdr. G. Ferraro, from EC-JRC, presented the relevant work which has been carried out so far in the field of satellite monitoring of operational pollution in the Mediterranean. In particular he presented the results, specifically prepared for the Workshop, of a study recently carried out within the Adriatic Sea.

37. Mr D. Domovic, Senior Programme Officer, REMPEC, highlighted the importance of both the 2002 Prevention and Emergency Protocol and the Catania Declaration as a Regional answer to the problem of operational pollution, and referred in particular to the preparation of the Regional Strategy for prevention of and response to marine pollution from ships, which includes numerous specific objectives addressing the reduction and eventual elimination of operational pollution.

38. He also presented the Centre's CLEANMED project proposal, describing its overall objectives and the activities planned to be carried out within its framework.

39. Mr. M. Rafanelli, from the Italian national research Council (CNR-IASI), introduced the CLEANMED-Italia pilot project, which was designed to complement the CLEANMED project proposed by REMPEC.

40. Mr M. Amagliani, Regional councillor responsible for the Environment in the Region of Marche, presented the DAMAC (Difesa Ambientale Mare Adriatico e Comunicazione) project as an initiative of peripheral regions within the EC-INTERREG financial programme.

DAY 2 (4 November, morning) - PRESENTATION OF THE GERMAN SURVEILLANCE AIRCRAFT

41. In the morning of 4 November 2004 the participants visited the airport of Ancona where they had the opportunity to attend the presentation of the German aircraft Dornier Do 228-212 LM, equipped with the most sophisticated remote sensing devices, which is currently utilized in aerial surveillance at sea in the North Sea and Baltic Sea areas by the German Ministry of Transport – Maritime Pollution Control.

42. The crew of the German aircraft was also available in order to provide the participants with detailed technical information regarding operational and technical aspects of the instruments on board.

DAY 2 (4 November, afternoon) and DAY 3 (5 November, morning) - WORKING GROUPS

43. Three Working Group sessions were held at the Sporting Hotel in Ancona in the afternoon of 4 November and in the morning of 5 November 2004 in order to discuss the activities proposed by REMPEC to be carried out in relation to the three components of the CLEANMED project proposal.

44. In the Working Groups the participants had the opportunity to examine the relevant problems related to operational pollution from ships in the Mediterranean and to provide REMPEC with comments and suggestions accordingly.

WORKING GROUP A

45. The objective of the Working Group A was to examine the first component of CLEANMED project proposal concerning the **improvement of the relevant legislative framework in the Mediterranean countries.**

46. Working Group A was chaired by Prof. T. Scovazzi, from Bicocca University (Milan, Italy), while Ms C. Pautrot (France) acted as *Rapporteur* of the group.

47. Taking into consideration the objectives contained in the project proposal prepared by REMPEC, international regulations adopted by IMO, EU regulations and the national legislations already adopted by the Mediterranean coastal States in the field of prevention and control of operational pollution and prosecution of offenders, the Workshop agreed on the need to carry out a co-ordinated action in several fields, in order to ensure implementation and reinforcement of the relevant legislative framework in the Mediterranean. After considering various issues that could contribute to improving national legal systems with a view to implementing and enforcing the existing international legal instruments for prevention of operational pollution from ships, the Working Group A made the following proposals that were subsequently discussed and agreed upon in the plenary.

48. In order to achieve harmonized legal systems in the whole Mediterranean it was required to undertake an assessment of national legal mechanisms aimed at recommending specific adjustments, where needed.

49. In order to ensure a co-ordinated action by the competent national authorities in the region, the Mediterranean coastal States shall establish, at national level, a better coordination and exchange of information among the authorities dealing with operational pollution from ships, as well as among relevant national operational centres.

50. Taking into consideration that certain countries have already adopted a national legislation which envisages the establishment of ecologically protected areas (EPA) beyond their territorial waters, the Workshop agreed on the need that all the Contracting Parties establish such areas, with a view to creating a network of EPAs in the Mediterranean. This could enhance cooperation between the Contracting Parties in prosecuting the offenders and prevent polluters from taking advantage of offshore areas where national jurisdictions in relation to environmental offences cannot be applied.

51. Representatives of Turkey and Israel expressed their reservation on this issue and indicated that it needs further consideration.

52. The Workshop agreed on the need to harmonize ad hoc legislations at regional level, with particular emphasis on prosecution of offenders, once the network of ecologically protected areas has been established.

53. Specific measures to be considered for adoption were also discussed, as follows:

- diversion and immobilization of ships
- extension of civil liability to the shipowners and/or to the charterers
- application of secondary measures such as professional interdictions.
- utilizing fines as resources to improve and reinforce the capacity of the States in combating operational pollution from ships
- establishment of a fund to finance activities aimed at preventing and controlling operational pollution from ships.

54. The required funds that would enable the implementation of the above mentioned activities may be secured by MEDA. Moreover the participation and support from coastal States in partnership with GEF should be considered and encouraged.

WORKING GROUP B

55. The Working Group B had the task to discuss the second component of CLEANMED project proposal concerning the **reinforcement of human resources and prosecution of offenders**

56. Working Group B was chaired by Mr. D. Silvestre (France) and Dr A. Laouira, from the Algerian delegation, acted as the *Rapporteur*.

57. Taking into consideration the objectives proposed by REMPEC within the CLEANMED project proposal, it was agreed that these objectives could be achieved through a number of Seminars/Workshops for both technical/operational personnel and legal personnel/prosecutors. In particular, it was agreed that the necessary reinforcement of human resources in the region, could be achieved by organizing, within a three to four year programme, five or six Seminars/Workshops, of 2-4 days duration, at national, sub regional and regional level. The Workshop was of the opinion that it would be difficult to ensure the participation of sufficiently high profile participants if Seminars/Workshops would be of longer duration. In this context Working Group B made the following proposals that were subsequently discussed and agreed upon in the plenary.

58. The relevant Seminars/Workshops shall address specific target groups, including in particular legal experts of relevant national administrations (e.g. maritime transport, environment), prosecutors and magistrates, as well as inspectors, investigators and technical staff of relevant national administrations (e.g. maritime transport, environment).

59. The Seminars/Workshops should give the opportunity to the participants to study in depth specific topics, including real case studies, which could provide an important basis for the assessment of the complete set of evidence. Moreover the Seminars/Workshops should provide investigators with updated information necessary for understanding and analyzing pieces of evidence and last, but not least, they should have the objective of both developing procedures for presenting evidence to court and informing magistrates on gathering and relevance of evidence.

60. The Working Group B stressed and the Workshop agreed on the importance of increasing the awareness of the key players of means for improving the efficiency of prosecution, including in particular possible development of "ecological protection areas", regulations and operational practices, and recommended that these also be included in the agenda of the proposed Seminars/Workshops.

61. It was agreed to suggest to the Contracting Parties to inform REMPEC on their experience concerning the above mentioned points in order to facilitate the optimal preparation of workshops and seminars.

62. The Workshop suggested to develop a database for the Mediterranean region including case studies, evidence used in prosecution of offenders, sentences, etc. The form of the database shall be decided.

63. It was also suggested to develop an internet network containing *inter alia* international and national legal acts and other relevant documents, as well as national requirements for acceptance of evidence.

64. In order to carry out the relevant activities 50% of the required funds could be provided by GEF, under condition that the rest would be financed by partner countries. Some countries indicated their willingness to support part of activities envisaged under component B. The Workshop encouraged the Contracting Parties to contribute both directly and indirectly (in kind) to the financing of the CLEANMED project in general, and its component B in particular.

WORKING GROUP C

65. The main objective of the Working Group C was to discuss the third component of CLEANMED project proposal concerning the **aerial surveillance and monitoring of maritime traffic by remote sensing techniques in the Mediterranean Sea.**

66. Working Group C was chaired by Mr. T. De Lannoy, from EC-ENV, while the group elected Ms. C. Farchi, from REMPEC, as *Rapporteur*.

67. Taking into consideration the objectives contained in the project proposal prepared by REMPEC and having assessed the current practices for aerial surveillance performed in the Mediterranean (**Annex III**), it was agreed on the need to primarily assess the problem of operational

pollution in the basin in order to define the actual situation in the region. Working Group C made the following proposals that were subsequently discussed and agreed upon in the plenary.

68. In order to collect data on oil spills detected within the Mediterranean region, The Workshop agreed a reporting format (Annex IV) that each country shall send to REMPEC, at least on a yearly basis. REMPEC would then be responsible of taking the proper initiatives.

69. The reporting format would allow to work out valuable statistical studies and would provide a solid basis for a better prevention of operational pollution within the Mediterranean Sea. In particular the data collected would allow the development of density maps for oil spills, which should in turn help to identify the areas at higher risk of pollution within the basin. Finally, the detected spills could be compared with information deriving from the analysis of archive satellite images.

70. Having recognized that both aerial surveillance and satellite monitoring represent efficient tools to control and protect the Mediterranean from pollution and taking into consideration the need to improve the current situation in the Mediterranean, the Workshop suggested to ask REMPEC to identify possible ways of financing projects dealing with aerial and satellite surveillance.

71. It was agreed that a cooperation for aerial surveillance within the Mediterranean could be foreseen and that, in this context, a joint use of aerial surveillance means may represent a first step.

72. The Workshop agreed that joint patrolling activities and oil appearance code, already implemented within the Bonn Agreement and the Helsinki Convention, could be envisaged for use also in the Mediterranean.

73. Taking into consideration the meteo-ocean forecasting tools already developed for the Mediterranean by INGV in the framework of the MFSTEP and ADRICOSM projects, funded by the EC and the Italian Ministry of the Environment respectively, the Workshop agreed on a possible collaboration and sharing of information with INGV.

74. Taking into consideration the areas proposed by REMPEC within the CLEANMED project, where to carry out pilot projects for monitoring activities, the group suggested to also include the Adriatic Sea and the area between France-Monaco-Italy.

75. Financial aspects will be discussed once the relevant information on oil spills will be collected and reported through the standard reporting format developed by the Workshop.

SIDE EVENTS

76. In the afternoon of Day 2 and in the morning of Day 3 two side events were organized by the region Marche at the Sporting Hotel and the Auditorium respectively. The relevant Agenda of the Side Events is reproduced in **Annex V**.

PLENARY SESSION (5 November 2004)

77. In the afternoon of 5 November a plenary session was held at the Auditorium of Ancona, where the relevant outcomes of the Working Groups were presented either by the Chairmen or the *Rapporteurs*.

78. During the time left for discussion the proposals of each Working Group were agreed by the Workshop.

CLOSURE OF THE WORKSHOP

79. The Director of REMPEC thanked the participants for their constructive work and significant inputs that resulted from it.

80. The Chairman closed the Workshop at 17.30 on Friday, 5 November 2004.

ANNEX(E) I

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LISTE DES PARTICIPANTS

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ANNEX II

PROGRAMME

DAY 1 **Wednesday, 3 November 2004**

AUDITORIUM

08.30 - 09.00 Registration of participants

09.00 - 10.00 Opening session: Region Marche
Ancona municipality
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Plenary

Chairperson: Adm. R. Ferraro

10.00 - 10.25 Introduction to the subject R. Adm. R. Patrino
of the Workshop. (REMPEC Director)
The Operational pollution in the
Mediterranean

10.25 - 10.50 International and Regional Prof. U. Leanza
Legal Framework (University Tor Vergata-Rome)

10.50 - 11.10 *Coffee break*

11.10 - 11.35 The French initiative in the Mr. D. Silvestre
Mediterranean Secrétariat Général de la
Mer (France)

11.35 - 12.00 The Italian policy in preventing Dr. F. Valentini
operational marine pollution Ministry of the Environment
(Italy)

12.00 - 12.20 German experience in aerial surveillance Capt. U. Bustorff
within the framework of Bonn Agreement (Germany)
and Helsinki Commission

12.20 - 12.35 Group of Experts on satellite Dr. O. Trieschmann
monitoring of sea-based oil pollution (Germany)

12.35 - 13.00 The full enforcement of MARPOL 73/78 Mr. J. Ostergaard (IMO)
and other IMO provisions, the way
to deal with the operational pollution

13.00 - 14.30 *Lunch break*

14.30 – 14.50	The role of EU in the Mediterranean in the field of prevention of, preparedness for and response to marine pollution from ships	Mr. T. De Lannoy (EC-DG ENV)
14.50 – 15.25	Satellite monitoring of operational pollution in the Mediterranean	Cdr. G. Ferraro (EC-JRC)
15.25 -15.50	The Regional Strategy as an answer to the problem. Prevention and Emergency Protocol 2002 – Catania Declaration 2003	Mr. D. Domovic (REMPEC)
15.50 - 16.20	<i>Coffee break</i>	
16.20 - 16.45	The CLEANMED project	Mr D. Domovic (REMPEC)
16.45 - 17.05	The CLEANMED-Italia project	Mr. M. Rafanelli (CNR-IASI, Italy)
17.05 - 17.30	Peripheral regions initiatives: the DAMAC project	Mr. M. Amagliani (Region Marche)

DAY 2 Thursday, 4 November 2004

ANCONA AIRPORT

10.00 –12.00	Presentation of the German aircraft utilized in aerial surveillance activities at sea	Capt. U. Bustorff & aircraft crew
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SPORTING HOTEL

13.00 – 14.30	<i>Lunch break</i>	
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Working Groups

14.30 – 17.30	<u>Working Group A</u> CLEANMED project Improvement of the relevant legislative framework in the Mediterranean countries Chaired by Prof. T. Scovazzi, University Bicocca – Milano	
	<u>Working Group B</u> CLEANMED project Reinforcement of human resources (prosecution of offenders) Chaired by Mr. D. Silvestre (France) Subject introduced by Mr. Darko Domovic (REMPEC) Rapporteur Algeria	

Working Group C
CLEANMED project
Aerial surveillance and monitoring of maritime traffic
by remote sensing techniques (earth observation)
in the Mediterranean Sea
Chaired by Mr. T. De Lannoy (EC-ENV)
Subject introduced by Cdr. G. Ferraro (EC-JRC)
Rapporteur REMPEC

Working Group D
CLEANMED-Italia project
Monitoring of maritime traffic off of Italian coasts
Chaired by CNR (Italy)

Side Event: see **Annex V**

DAY 3 **Friday, 5 November 2004**

SPORTING HOTEL

09.30 - 13.00 Working Groups
(cont.)

AUDITORIUM

Side Event see **Annex V**

13.00 – 14.30 *Lunch break*

Plenary

Chairperson: Adm. R. Ferraro

14.30 – 15.30 Reports of the Working Groups *Rapporteurs*

15.30 – 15.45 *Coffee break*

15.45 – 17.30 Round Table discussion
Speakers
Working Group Chairpersons

Closing session
Region Marche
REMPEC
Italian Ministry of the Environment

ANNEX III

CURRENT PRACTICES IN THE MEDITERRANEAN FOR AERIAL SURVEILLANCE

Countries attending working group C: Croatia, Cyprus, Egypt, France, Greece, Lebanon, Malta, Serbia and Montenegro, Slovenia, Spain, Syria, Tunisia and Turkey with the participation of the EC

Cyprus - an aerial surveillance is not in force yet, as only ships are available for oil spill monitoring, but there is a plan for future aerial surveillance that is under discussion

Croatia - oil spill monitoring is performed by ships and through cooperation with civilian airplanes

Egypt - data regarding oil spill monitoring come from many different sources (airplanes, navy, commercial ships, fishing boats). There are not specific aircrafts for surveillance but the strict connection between the navy, air force and other sources allows the collection of data on oil spills and twice a year calculations are made in order to derive statistics.

France - aerial surveillance is carried out both by the Navy and the French customs. In the Mediterranean Sea the French customs operate with four aircrafts including one remote sensing aircraft (SLAR system, UV and IR cameras) and three helicopters

Greece - aerial surveillance by means of 7 aircrafts and 6 helicopters is available. Three of the aircrafts are well equipped with SLAR system, UV and IR cameras and FLIR. Data on oil spills are collected and elaborated.

Lebanon - oil spill surveillance is performed by ships, which alert aircrafts whenever pollution is detected. The aircrafts take pictures of the pollution event but are not equipped with remote sensing systems.

Malta - on daily basis surveillance is performed by a limited number of aircrafts and helicopters although the main objective is not to detect pollution but primarily for border control. It is planned to have a FLIR system in the near future.

Serbia and Montenegro - at present plans for aerial surveillance are being discussed

Slovenia - due to the small area concerned (46 km of coast) usually surveillance activities are performed by boats but cooperation with civilian airplanes can take place

Spain - there is a plan for aerial surveillance still under discussion

Syria - there is no aerial surveillance. Oil spills are monitored by ships and through cooperation with neighbouring countries

Tunisia - there is a surveillance system, which is performed by aircrafts not specifically equipped with remote sensing devices. Information on oil spills derives also from the navy, maritime authorities and from the other "users" of the sea. The accidents occurred along the littoral are regularly reported.

Turkey - aerial surveillance by aircrafts and helicopters is carried out by Turkish Coast Guard.

ANNEX V

SIDE EVENTS PROGRAMME

DAY 2 **Thursday, 4 November 2004**

SPORTING HOTEL

The Adriatic basin as seen by its western regions

Chaired by Dr Paoloni and Dr Polonara (Environmental Department of Marche Region)

14.30-15.00 Culture and Economy of the Adriatic Regions Prof. Sori – Prof. Pesciarelli
Urbino & Camerino University
Marche Polytechnic University

Geological characteristics of the region

15.00-15.15 Geology Prof. Tramontana
Marche Polytechnic University

15.15-15.30 Sedimentology Prof. Colantoni
Urbino & Camerino University

15.30-15.45 Tectonics Prof. Cello
Urbino & Camerino University

Marine Biology

15.45-16.00 Biology of micro-meio fauna Prof. Balzamo
Urbino & Camerino University

16.00-16.15 Biology of fisheries resources Prof. Piccinetti
CNR-Fano

16.15-16.30 *Coffee break*

The Adriatic Sea and the problem of mucilage

16.30-16.45 Meteo-oceanographic features and mucilage Dr. Artegiani
CNR-ISMAR

16.45-17.00 Chemical-biological aspects and Mucilage Dr. Rinaldi
Biol. Lab. Cesenatico

17.00-17.15 Marine pollution in the Adriatic Dr. De Rosa
ARPAM

17.15-17.45 Round Table and discussion Participants

17.45-18.00 Closure of works Chairpersons

AUDITORIUM

Round table on sustainable development in the Adriatic basin

Part I

Chaired by Nives Kozulić (Institute for the territorial planning of the County of Zadar)

1st session: "The level of risk"

Increase of the level of risk for the marine environment due to the future development of maritime traffic in the Adriatic basin

Cdr. G. Matteini
Consultant

The agreement between Croatia, Italy and Slovenia: the subregional answer to both the illicit discharges from ships and accidental marine pollution

R. Adm. R. Patruno
REMPEC Director

2nd session: "Vulnerability"

The Adriatic environment: richness and vulnerability

Prof. R. Danovaro
Marche Polytechnic University

Safety of navigation for the protection of sensitive areas

Prof. P. Komadina
Rijeca University

3rd session: "The value"

Motorways of the sea and inter-modal platforms

Mr F. Benevolo
CONFITARMA

Analysis of pollution deriving from different forms of transport: the potential of maritime transport

Prof. G. Polidori
Urbino University

Port reception facilities as a first measure to prevent damages to biotic ecosystems

Mr P. Baldoni
ANSEP UNITAM

Tourism, fishing, mariculture and nautical activities as economic tools contributing to the sustainable development and growth of the region

Mr M. De Vita
Chamber of commerce of Ancona

Part II

Chaired by Ugo Ascoli (Marche Region)

Discussion: Riccardo Mazzoni, Urbino University
Walter Ganapini, Emilia Romagna Region
Margita Mastrovic, Ministry for the protection of the Environment of Croatia
Lucio Forestieri, Marche Region
Germana Petrelli, Legambiente Marche

Conclusions: Ugo Ascoli, Marche Region