



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

Regional Workshop on Ratification and Effective Implementation
of MARPOL Annex VI

REMPEC/WG.44/1/1
Date: 10 December 2018

Valletta, Malta, 11-13 December 2018

Original: English

Agenda Item 1

ANNOTATED PROVISIONAL AGENDA AND DRAFT TIMETABLE

Note by the Secretariat

SUMMARY

Executive Summary: This document provides brief information on the action to be taken by the Meeting as well as a draft timetable for the Meeting. This timetable prepared by the Secretariat is of a tentative nature and may be modified by the Meeting, as appropriate.

Actions to be taken: As indicated under each agenda item.

Related documents: UNEP/IG.43/6, UNEP(DEPI)/MED IG.22/28, UNEP(DEPI)/MED IG.23/23, REMPEC/WG.44/1/Rev.1, REMPEC/WG.44/8/Rev.1, REMPEC/WG.44/INF.3/Rev.1, REMPEC/WG.44/INF.4/Rev.1, REMPEC/WG.44/INF.5, REMPEC/WG.44/INF.6, REMPEC/WG.44/INF.7, REMPEC/WG.44/INF.8, REMPEC/WG.44/INF.9, REMPEC/WG.44/INF.10, REMPEC/WG.44/INF.11

Introduction

1 The Regional Workshop on Ratification and Effective Implementation of Annex VI to the International Convention for the Prevention of Pollution from Ships (MARPOL), hereinafter referred to as the Meeting, is being convened at the premises of the Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (REMPEC) in Valletta, Malta from 11 to 13 December 2018, pursuant to the Programme of Work and Budget for 2018-2019 of the Mediterranean Action Plan (MAP) of the United Nations Environment Programme (UN Environment), also referred to as UN Environment/MAP, which was adopted by the Twentieth Ordinary Meeting of the Contracting Parties to the Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean (“the Barcelona Convention”) and its Protocols held in Tirana, Albania from 17 to 20 December 2017 (UNEP(DEPI)/MED IG.23/23).

2 The principal objectives of the Meeting are:

- .1 to raise awareness on MARPOL Annex VI as well as to provide for a greater understanding and appreciation of the requirements for implementation and enforcement of the said annex, in order to be able to lead Governments’ efforts towards ratification and more effective implementation, compliance and enforcement, both as a flag State and as a port State, over the first two days of the Meeting; and

- .2 to discuss the draft technical and feasibility study to examine the possibility of designating the Mediterranean Sea, or parts thereof, as sulphur oxides (SOx) emission control area (ECA) under MARPOL Annex VI, prepared by REMPEC, a copy of which was submitted to the SOx ECA(s) Technical Committee of Experts established pursuant to Specific Objective 15 of the Regional Strategy (2016-2021)¹ on 1 October 2018, for its consideration, over the last day of the Meeting.

3 All REMPEC Prevention Focal Points were invited to nominate jointly and, in consultation with the REMPEC Governmental Focal Points and the representative(s) serving on the SOx ECA(s) Technical Committee of Experts, their representatives in the Meeting. The invitation to participate in the Meeting was also extended to specialised agencies of the United Nations, other governmental and non-governmental organisations, as well as to international professional organisations and associations the activities of which are relevant to the objectives of the Meeting.

4 In order to assist the Meeting in its work, the Secretariat prepared the following annotations to the proposed provisional agenda of the Meeting.

Opening of the Meeting

5 The Meeting will open on Tuesday, 11 December 2018 at 0900 hours and is expected to close on Thursday, 13 December 2018 at 1700 hours.

Organisation of the Meeting

Rules of Procedure

6 The Rules of procedure for Meetings and Conferences of the Contracting Parties to the Convention for the Protection of the Mediterranean Sea against Pollution and its related Protocols (UNEP/IG.43/6, Annex XI) shall apply *mutatis mutandis* to the deliberations of this Meeting.

Election of Officers

The Meeting will be invited to elect a Chairperson, a Vice-Chairperson and a Rapporteur.

Working Languages

7 The working languages of the Meeting will be English and French. Simultaneous English/French/English interpretation will be provided during the Meeting. All working documents will be available in both official languages of the Centre, i.e. in English and in French. Information documents will be available in their original language unless a translation is provided in the second working language.

Agenda Item 1 **Adoption of the Agenda**

8 The agenda, as proposed in document REMPEC/WG.44/1/Rev.1 and annotated in the present document, will be proposed for adoption by the Meeting. The Meeting will also be invited to agree on a timetable to carry out its work. A draft timetable is proposed in the **Annex** to the present document.

Agenda Item 2 **The international regulatory framework for preventing pollution from ships**

9 Under this agenda item, the Secretariat will provide information on the international regulatory framework for preventing pollution from ships.

¹ The Regional Strategy for Prevention of and Response to Marine Pollution from Ships (2016-2021), hereinafter referred to as the Regional Strategy (2016-2021), was adopted by the Nineteenth Ordinary Meeting of the Contracting Parties to the Barcelona Convention and its Protocols held in Athens, Greece from 9 to 12 February 2016 (UNEP(DEPI)/MED IG.22/28).

10 In particular, Mr Franck Lauwers, Programme Officer (Prevention), REMPEC, will introduce the structure and decision-making process of the International Maritime Organization (IMO), and refer to the Regional Strategy (2016-2021). He will also provide a brief overview of MARPOL Annexes with a focus on MARPOL Annex VI – Regulations for the prevention of air pollution from ships. Finally, Mr Lauwers will make an introduction to the IMO's Integrated Technical Cooperation Programme (ITCP).

The Meeting will be invited to take note of the information provided as well as to comment, as appropriate.

Agenda Item 3 **Overview of MARPOL Annex VI – Regulations for the prevention of air pollution from ships**

11 Dr Zabihollah Bazari, lead REMPEC consultant, will give an overview of MARPOL Annex VI – Regulations for the prevention of air pollution from ships.

12 In particular, Dr Bazari will explain the rationale behind regulating air pollution from ships. He will provide information on the current status of MARPOL Annex VI and its application, as well as describe the key technical provisions of MARPOL Annex VI and nitrogen oxides (NO_x) Technical Code. Finally, Dr Bazari will review MARPOL Annex VI, Chapters 1 and 2, including equivalents, notifications, survey and certification.

The Meeting will be invited to take note of the information provided as well as to comment, as appropriate.

Agenda Item 4 **MARPOL Annex VI, Chapter 3 – Requirements for control of emissions from ships**

13 Under this agenda item, Dr Bazari together with Dr James Corbett, REMPEC consultant, will provide information on MARPOL Annex VI, Chapter 3 – Requirements for control of emissions from ships.

14 In particular, Dr Bazari and Dr Corbett will give a joint overview of MARPOL Annex VI, Chapter 3 and cover the following topics: Ozone depleting substances (ODS), including their types and impacts, the regulatory framework, current and future developments as well as compliance aspects (e.g. record books and reception facilities); NO_x and SO_x, including the regulatory framework and future limits, ECA (s) as well as requirements and compliance; Volatile organic compounds (VOC), including incineration, fuel oil quality and availability; and the current status, application, survey, certification and enforcement.

15 Dr Corbett will also provide information on alternative fuels and scrubbers, especially the likely changes to marine fuels in the future, the technical aspects and status of Liquefied Natural Gas (LNG) as marine fuel, scrubber technology and status as well as scrubber rules and compliance methods.

The Meeting will be invited to take note of the information provided as well as to comment, as appropriate.

Agenda Item 5 **MARPOL Annex VI, Chapter 4 – Regulations on energy efficiency for ships**

16 Dr Bazari, Dr Corbett and Mr John Calleya, Technical Officer, Marine Environment Division, IMO, will provide information on MARPOL Annex VI, Chapter 4 – Regulations on energy efficiency for ships.

17 In particular, Dr Bazari will give an overview of MARPOL Annex VI, Chapter 4 and make reference to Resolutions MEPC.203(62) and MEPC.251(66) related thereto. He will also present the Energy Efficiency Design Index (EEDI), the Ship Energy Efficiency Management Plan (SEEMP), the data collection system for fuel oil consumption measurement as well as survey and certification requirements. Finally, Dr Bazari will present on-going discussions on implementation and progress achieved so far.

18 Moreover, Dr Corbett will address the greenhouse gas (GHG) issue and the role of international shipping. In particular, he will provide background information on Global GHG emissions and the role of international shipping. Dr Corbett will also highlight the key findings and conclusions of the second (2009) and third (2014) IMO GHG studies.

19 Furthermore, Mr Calleya will provide an overview of the work carried out by IMO to address GHG emissions from ships and the related links to the United Nations Framework Convention on Climate Change (UNFCCC). He will refer to IMO consideration of the issue, including Resolution A.963(23). Mr Calleya will also provide information on IMO strategies on further reduction of GHG emissions from ships, highlighting the introduction to further measures for GHG reduction and emphasising the development of strategies and typical proposals. Finally, he will present the results of interessional working groups and will outline the content of the initial IMO Strategy on reduction of GHG emissions from ships.

20 In addition, Dr Bazari will present the energy efficiency ship design and operation. In particular, he will address issues pertaining to the design and resistance of ships and will identify the key technical measures for improving energy efficiency and their impact on EEDI as well as key operational measures for improving energy efficiency and their impact on the Energy Efficiency Operational Indicator (EEOI). Dr Bazari will conclude by reviewing the likely impact of energy efficiency regulations.

21 Finally, Dr Corbett will provide an overview of on-shore power supply and green port initiatives, presenting on-shore power supply techniques and benefits as well as highlighting the regulatory aspects of on-shore power supply. He will also underline green port initiatives and various approaches, including the Environmental Ship Index (ESI).

The Meeting will be invited to take note of the information provided as well as to comment, as appropriate.

Agenda Item 6 **Port State Control for MARPOL Annex VI**

22 Under this agenda item, Dr Bazari and Dr Corbett will provide information on Port State Control (PSC) for MARPOL Annex VI.

23 In particular, Dr Bazari will give an overview of relevant aspects related to PSC for MARPOL Annex VI, recalling, amongst others, the legal framework, related provisions, including the United Nations Convention on the Law of the Sea (UNCLOS), and guidance document. He will then explain the roles and responsibilities of Administrations, flag State considerations and controls by the port State as well as provide information on the Memorandum of Understanding on Port State Control in the Mediterranean Region (Mediterranean MoU).

24 Moreover, Dr Corbett will underpin the importance of PSC for sulphur content compliance, addressing SO_x initial inspection, clear grounds, more detailed inspections and detainable deficiencies. He will introduce the procedures related to fuel oil sampling and fuel oil analysis as well as give information on the availability of fuel and related procedures. Dr Corbett will give an overview of exhaust gas sniffing equipment and remote sensing on sulphur and explain the enforcement on fuel suppliers, providing practical examples and related experience. He will conclude on the exhaust gas cleaning system technical and regulatory aspects.

25 Finally, Dr Bazari will focus on PSC for ship energy efficiency regulations, explaining the specific requirements of MARPOL Annex VI, Chapter 4 that the ship has to comply with. He will then present the International Energy Efficiency Certificate (IEEC) and the Ship Energy Efficiency Management Plan (SEEMP). Dr Bazari will also describe the data collection system for fuel oil consumption measurement.

The Meeting will be invited to take note of the information provided as well as to comment, as appropriate.

Agenda Item 7 **Challenges and opportunities for Mediterranean coastal States to ratify and implement MARPOL Annex VI**

26 The Secretariat will moderate, with the assistance of REMPEC consultants, a roundtable discussion on the challenges and opportunities for Mediterranean Coastal States to ratify and implement MARPOL Annex VI.

27 Participants will be invited to share their respective practical experience and ideas with a view to identifying challenges and opportunities for Mediterranean coastal States to ratify and implement MARPOL Annex VI.

The Meeting will be invited to take note of the information provided as well as to comment, as appropriate.

Agenda Item 8 **Examining the possibility of designating the Mediterranean Sea, or parts thereof, as SOx ECA(s) under MARPOL Annex VI**

28 Under this agenda item, the Secretariat will provide background information on the draft technical and feasibility study to examine the possibility of designating the Mediterranean Sea, or parts thereof, as SOx ECA(s) under MARPOL Annex VI, hereinafter referred to as the draft Technical and Feasibility Study, which is presented in document REMPEC/WG.44/8/Rev.1. It will also introduce the related Terms of Reference, as presented in document REMPEC/WG.44/INF.3/Rev.1, as well as give a brief overview of the establishment and work of the SOx ECA(s) Technical Committee of Experts, including the comments received through the said committee on the draft Technical and Feasibility Study, as compiled in document REMPEC/WG.44/INF.4/Rev.1.

29 Moreover, Dr Edward Carr, REMPEC consultant, will present the draft Technical and Feasibility Study in details, focusing on the methodology used and highlighting the main outcome of the said study.

30 Furthermore, Ms Rosa Antidormi from the European Commission (EC) will introduce the EC study on the assessment of the potential for cost-effective air emission reductions from shipping (SOx, NOx) through designation of further ECAs in European Union waters with focus on Mediterranean Sea. Dr Janusz Cofala, EC consultant, will present the methodology used and outline its main results. Mr Sergio Alda from the European Maritime Safety Agency (EMSA) will then provide information on the EuroMed Cooperation on Maritime Safety and Prevention of Pollution from Ships (SAFEMED IV Project), as presented in document REMPEC/WG.44/INF.5.

31 In addition, Ms Cécile Rafat from France will provide an overview of the French study on the evaluation of the interest of setting up a SOx and NOx ECA in the Mediterranean. She will detail the methodology used and the content of the study, whilst emphasising on its main conclusions.

32 Finally, Dr Anita Mäkinen, on behalf of the Baltic Marine Environment Protection Commission - Helsinki Commission (HELCOM), will share the experience and lessons learnt from the designation of the Baltic Sea as SOx ECA under MARPOL Annex VI.

33 During a plenary discussion, participants will be invited to:

- .1 share and exchange views and perspectives on the possibility of designating the Mediterranean Sea, or parts thereof, as SOx ECA(s) under MARPOL Annex VI;
- .2 provide comments on the draft Technical and Feasibility Study, taking into consideration the comments received through the SOx ECA(s) Technical Committee of Experts; and
- .3 identify follow-up measures to progress on the possibility of designating the Mediterranean Sea, or parts thereof, as SOx ECA(s) under MARPOL Annex VI, as appropriate.

The Meeting will be invited to take note of the information provided as well as to comment, as appropriate.

Agenda Item 9 **Other business**

34 **The Meeting will be invited** to consider any other matters that may be raised under this agenda item.

35 In particular, the Secretariat will provide brief information on the Ship and Port Emissions Toolkits developed within the framework of the Global Environment Facility (GEF), United Nations Development Programme (UNDP) and IMO Global Maritime Energy Efficiency Partnerships (GloMEEP) Project and in collaboration with the Institute of Marine Engineering, Science and Technology (IMarEST) and the International Association of Ports and Harbors (IAPH), as presented in document REMPEC/WG.44/INF.6, and will introduce the following documents, a hard copy of which will also disseminated to participants, for their perusal:

- .1 *Ship Emissions Toolkit* Guide No.1: Rapid assessment of ship emissions in the national context, as set out in the Appendix to document REMPEC/WG.44/INF.7;
- .2 *Ship Emissions Toolkit* Guide No.2: Incorporation of MARPOL Annex VI into national law, as laid down in the Appendix to document REMPEC/WG.44/INF.8; and
- .3 *Ship Emissions Toolkit* Guide No.3: Development of a national ship emissions reduction strategy, as set out in the Appendix to document REMPEC/WG.44/INF.9.
- .4 *Port Emissions Toolkit* Guide No.1: Assessment of port emissions, as laid down in the Appendix to document REMPEC/WG.44/INF.10; and
- .5 *Port Emissions Toolkit* Guide No.2: Development of port emissions reduction strategies, as set out in the Appendix to document REMPEC/WG.44/INF.11.

36 Under this agenda item, organisations wishing to provide brief information on some of their activities that may be of interest to the Meeting will also be given the opportunity to do so.

Agenda Item 10 **Conclusions and recommendations**

37 Under this agenda item, the Meeting will review, amend, as appropriate, and adopt draft conclusions and recommendations that will result from the meeting discussions, as prepared by the Rapporteur.

38 The report of the Meeting will be prepared and circulated after the Meeting.

Closure of the Meeting

39 The Meeting is expected to be closed by the Chairperson on Thursday, 13 December 2018 at 1700 hours.

Annex

Draft timetable

Day 1 – Tuesday, 11 December 2018		
08:30 – 09:00	<i>Registration of participants</i>	
09:00 – 09:15	Opening of the Meeting	
09:15 – 09:30	Agenda Item 1	Adoption of the Agenda
09:30 – 10:00	Agenda Item 2	The international regulatory framework for preventing pollution from ships
10:00 – 10:45	Agenda Item 3	Overview of MARPOL Annex VI – Regulations for the prevention of air pollution from ships
10:45 – 11:15	Coffee break	
11:15 – 12:30	Agenda Item 4	MARPOL Annex VI, Chapter 3 – Requirements for control of emissions from ships
12:30 – 14:00	Lunch break	
14:00 – 14:30	Agenda Item 4 (cont.)	MARPOL Annex VI, Chapter 3 – Requirements for control of emissions from ships
14:30 – 15:30	Agenda Item 5	MARPOL Annex VI, Chapter 4 – Regulations on energy efficiency for ships
15:30 – 16:00	Coffee break	
16:00 – 17:00	Agenda Item 5 (cont.)	MARPOL Annex VI, Chapter 4 – Regulations on energy efficiency for ships

Day 2 – Wednesday, 12 December 2018		
09:00 – 09:30	Review of Day 1 learning points	
09:30 – 10:15	Agenda Item 5 (cont.)	MARPOL Annex VI, Chapter 4 – Regulations on energy efficiency for ships
10:15 – 10:45	Agenda Item 5 (cont.)	MARPOL Annex VI, Chapter 4 – Regulations on energy efficiency for ships
10:45 – 11:15	Coffee break	
11:15 – 11:45	Agenda Item 6	Port State Control for MARPOL Annex VI
11:45 – 12:30	Agenda Item 6 (cont.)	Port State Control for MARPOL Annex VI
12:30 – 14:00	Lunch break	
14:00 – 15:00	Agenda Item 6 (cont.)	Port State Control for MARPOL Annex VI
15:00 – 15:30	Agenda Item 7	Challenges and opportunities for Mediterranean coastal States to ratify and implement MARPOL Annex VI
15:30 – 16:00	Coffee break	
16:00 – 17:00	Agenda Item 7 (cont.)	Challenges and opportunities for Mediterranean coastal States to ratify and implement MARPOL Annex VI

Day 3 – Thursday, 13 December 2018		
09:00 – 09:30	Review of Day 2 learning points	
09:30 – 09:45	Agenda Item 8	Examining the possibility of designating the Mediterranean Sea, or parts thereof, as SOx ECA(s) under MARPOL Annex VI
09:45 – 10:30	Agenda Item 8 (cont.)	Examining the possibility of designating the Mediterranean Sea, or parts thereof, as SOx ECA(s) under MARPOL Annex VI
10:30 – 10:45	Photo session	
10:45 – 11:15	Coffee break	
11:15 – 11:45	Agenda Item 8 (cont.)	Examining the possibility of designating the Mediterranean Sea, or parts thereof, as SOx ECA(s) under MARPOL Annex VI
11:45 – 12:15	Agenda Item 8 (cont.)	Examining the possibility of designating the Mediterranean Sea, or parts thereof, as SOx ECA(s) under MARPOL Annex VI
12:15 – 12:30	Agenda Item 8 (cont.)	Examining the possibility of designating the Mediterranean Sea, or parts thereof, as SOx ECA(s) under MARPOL Annex VI
12:30 – 14:00	Lunch break	
14:00 – 15:15	Agenda Item 8 (cont.)	Examining the possibility of designating the Mediterranean Sea, or parts thereof, as SOx ECA(s) under MARPOL Annex VI
15:15 – 15:30	Agenda Item 9	Other business
15:30 – 16:00	Coffee break	
16:00 – 16:30	Agenda Item 10	Conclusions and recommendations
16:30 – 16:45	Feedback and wrap-up	
16:45 – 17:00	Closure of the Meeting and presentation of certificates	