

## **GLOBALLAST PARTNERSHIPS PROJECT**



### **GloBallast Regional Training Workshop on Compliance, Monitoring and Enforcement (CME) of the Ballast Water Management (BWM) Convention**

**15 - 16 March 2011**

**Split, CROATIA**



**REPORT**



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## **1 INTRODUCTION**

Over the past two decades, ships' ballast water has been recognized as one of the major vectors for the introduction of harmful aquatic organisms and pathogens into the aquatic environment and the introduction of invasive species was recognised as one of the four biggest threats to the marine environment.

IMO's activities to address this issue have primarily included the development of a regulatory regime culminating in the adoption of the International Convention for the Control and Management of Ships' Ballast Water and Sediments in February 2004, as well as the GloBallast Programme, a technical cooperation project, which included a pilot phase addressing the issue in six Pilot Countries (2000-2004) and a follow-up phase (GloBallast Partnerships Project (2008-2012) to be implemented in six priority regions, including the Mediterranean.

The project was developed as a joint initiative of the Global Environment Facility (GEF), the United Nations Development Programme (UNDP) and the International Maritime Organization (IMO) with the following objectives:

- assisting developing countries to reduce the transfer of harmful aquatic organisms and pathogens in ships' ballast water;
- building capacity to address the ballast water issues;
- undertaking legal, policy and institutional reform and
- implementing the International Convention for the Control and Management of Ships' Ballast Water and Sediments (BWM Convention) adopted under the aegis of IMO.

In order to facilitate the implementation of the Project in the Mediterranean region, REMPEC was identified as the Regional Coordinating Organisation (RCO) in consideration of the close linkages with IMO and of the relevance of the Partnership's objectives to the mandate of the Centre. As the GloBallast Partnerships RCO for the Mediterranean region, REMPEC is responsible for the preparation and organization of regional-tier activities including training courses/Workshops and meetings (Regional Task Force Meetings) which are carried out under the project.

## **2 AIMS OF THE TRAINING WORKSHOP**

One of the expected outputs (Output 2.7) of the GloBallast Project Implementation Plan (PIP) is the development of Compliance, Monitoring and Enforcement Systems. Enforcing ballast water management requirements typically involves flag and port state control authorities inspecting national and foreign ships, reviewing ballast water reporting forms, boarding selected ships to review documents and inspect equipment, and upon occasion using sanctioning powers to quarantine or fine vessels for failure to meet their legal obligations.

The Regional Training Workshop on Compliance, Monitoring and Enforcement (CME) of the Ballast Water Management (BWM) Convention was delivered within the framework of Activity 2.7.2 of the PIP and was aiming at flag and port state control authorities who are empowered to uphold relevant national laws. The main objective of the course was to provide practical knowledge on approaches to CME related to the implementation of the Ballast Water Management (BWM) Convention.

## **2.1 Lecturers**

In order to achieve the objectives outlined above, the Workshop programme was developed by the GloBallast Project Coordination Unit (PCU), in collaboration with REMPEC and a lead consultant, Mr. Zafrul Alam, Assistant Director of the Maritime and Port Authority of Singapore (MPA), who is well experienced in marine environment regulatory affairs.

Other invited lecturers provided specific knowledge related to their field of expertise. Dr. Raphael Baumler, Assistant Professor at the World Maritime University (WMU) detailed some specific aspects of port state control. Mr. Tonci Tadic, Director of Environmental Strategy at Zodiac Maritime Agencies Ltd., presented the practical views of the shipping industry. Mr. Brian Elliot, Senior Project Officer at the European Maritime Safety Agency (EMSA), who was also acting as representative of the European Commission (EC), delivered a presentation on issues related to sampling. Ms. Ivana Marovic of the Ministry of Sea, Transport and Infrastructure of Croatia, explained the BWM Convention regulatory framework in Croatia. Finally, Dr Arzu Olgun, Senior Researcher at Tubitak - Marmara Research Centre in Turkey, delivered a presentation on Turkey's Ballast Water Risk Assessment (BWRA) system, which is a tool used to determine the risk of biological invasion between the source port and the recipient port for each ship visit.

The list of lecturers is included in the list of participants in **Annex I** to the present report.

## **2.2 Profiles of Participants**

In view of the topic of the Training Workshop, each country was invited to nominate officers involved or expected to be involved in flag and/or port State control inspections carried out under the provisions of the BWM Convention.

A total of thirty-five (35) participants representing 19 Mediterranean coastal States and the European Community participated in the Workshop. Participants included Flag and Port State Control Officers, officials of maritime administrations or transport ministries, officials of environmental ministries/agencies and officials from a Ministry of Foreign Affairs as well as scientists. The full final list of participants is reproduced in **Annex I** to the present report.

## **2.3 Training material**

### **2.3.1 *Preparation of the structure of the course***

The preparation of the content of the Training Workshop was coordinated by the GloBallast Partnerships Project Coordination Unit (PCU) of the IMO, in collaboration with REMPEC and the lead consultant. The Workshop was divided in four segments:

- Segment 1: The frameworks
- Segment 2: The approaches
- Segment 3: The tools
- Segment 4: The conclusions

Segments 2 and 3 were followed by group exercises.

The final programme of the Training Workshop as delivered may be found in **Annex II** to the present report.

### **2.3.2 *Development of the GloBallast training package***

This Training Workshop was the first pilot GloBallast Regional Training Workshop on CME aspects of the BWM Convention and formed part of the preparatory work for a GloBallast training package on CME issues, currently being developed by the GloBallast Partnerships Project Coordination Unit (PCU) of the IMO, and which will be used to deliver similar training events in other regions of the world. The training package is being developed in partnership with the International Union for Conservation of Nature (IUCN) and the world Maritime University (WMU), with support from the Total Foundation and the Maritime and Port Authority of Singapore providing Mr Alam's time in-kind.

## **2.4 Material**

The following material was distributed to the participants:

- a copy of the latest IMO publication (2009) reproducing the BWM Convention and the complete set of Guidelines for its implementation,
- for French and Spanish speaking participants, an IMO publication reproducing the text of the BWM Convention in English, French and Spanish; and
- some informative leaflets summarising the purpose and objectives of the GloBallast Partnerships Project and some leaflets of REMPEC.

### **3 ORGANIZATION OF THE TRAINING WORKSHOP**

The GloBallast Regional Training Workshop on Compliance, Monitoring and Enforcement (CME) of the Ballast Water Management (BWM) Convention was held from 15 to 16 March 2011 in the conference room of the Atrium Hotel, Split, Croatia, where the participants were also accommodated.

The Ministry of Sea, Transport and Infrastructure of Croatia, hosted the event. Ms. Ivana Marović, from the Directorate for Seafaring Safety and Sea Protection of the Ministry, facilitated the organisation of the Training Workshop and coordinated the logistical arrangements locally. REMPEC, on behalf of IMO, issued the invitation letters, selected the participants and organised their travel and participation in the Workshop.

REMPEC was represented during the Training Workshop by Mr. Jonathan Pace, Senior Programme Officer in charge of the implementation of the Globallast Partnerships Project in the Mediterranean region, and by Ms. Sophie Martin, Junior Programme Officer.

The Training Workshop was delivered in English and simultaneous interpretation from English to French was provided.

#### **3.1 Opening of the Training Workshop**

Mr. Jonathan Pace, on behalf of the Director of REMPEC, welcomed the participants to the Training Workshop and augured a successful Workshop. He also expressed his great appreciation to the Croatian authorities and particularly to the Ministry of Sea, Transport and Infrastructure of Croatia for hosting the Training Workshop in Split.

He indicated that the organisation of the Training Workshop was partly financed by IMO's Integrated Technical Cooperation Programme (ITCP). However, considering the importance of such a Training Workshop for the Mediterranean region as a whole, REMPEC also part financed the organisation of the Workshop through its Mediterranean Trust Fund (MTF) budget. Finally, he introduced the REMPEC and GloBallast PCU teams coordinating the organisation of the Workshop as well as the lecturers of the Workshop.

Mrs. Maja Markovčić-Kostelac, Head of International and Legal Department in the Directorate of Maritime Traffic, Maritime Domain and Ports of the Ministry of Sea, Transport and Infrastructure of Croatia, delivered the opening remarks. Welcoming all participants to Croatia, she reminded them of the leading role that Croatia is playing in the region on issues related to ballast water management. She also provided insights on the work currently carried out at the national level to address the transfer of invasive species in Croatian waters and referred to the current development of a national

strategy and to national legislative instruments, as well as to the port baseline studies being carried out.

Mr. Fredrik Haag, Technical Advisor at the GloBallast Project Coordination Unit (PCU), introduced the programme of the training Workshop. He pointed out that the Workshop focused on CME issues related to the implementation of the BWM Convention, and was specifically designed to provide practical knowledge on CME approaches. He also highlighted the fact that this Training Workshop delivered in the Mediterranean was a pilot one and formed part of the preparatory work for a GloBallast training package on CME issues being developed by the GloBallast PCU. He stated that the Workshop thus provided a learning experience to the GloBallast PCU and referred to an Evaluation Form which participants would be requested to complete at the end of the Workshop which will provide valuable feedback and information which will be used in connection with the development of the GloBallast training package on CME issues.

### **3.2 Presentations**

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#### ***Day 1***

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##### **SEGMENT 1 – The frameworks**

Segment 1 familiarized the participants with the issue of transfer of harmful aquatic organisms and pathogens through ballast waters, and presented the Ballast Water Management Convention with a focus on Compliance, Monitoring and Enforcement.

##### **IMO-BBC Documentary “Invaders from the sea”**

As an introduction to the segment, the participants had the opportunity to watch the short version of the IMO-BBC documentary “*Invaders from the Sea*”. The aim was to provide the participants with a fact-based overview of the transfer of harmful organisms in ships’ ballast water and the operational effects of this phenomenon on the marine environment with real examples, as well as on the measures taken by the global community.

##### **Introduction to the BWM Convention and ballast water management (Mr. Fredrik Haag)**

After a reminder of what ballast water is, why ships need it, and the process of transfer of Invasive Aquatic Species (IAS), Mr. Fredrik Haag introduced operational aspects related to ships’ ballast water and explained the international response to the issue of IAS which led to the development of an international binding instrument, the BWM Convention, adopted in 2004. He then detailed the content of the BWM Convention explaining the various options to manage ships’ ballast water and the



standards set out in the Convention (ballast water exchange, ballast water treatment, alternate options). He also provided an overview of the Convention's articles related to compliance and enforcement, and to the obligations of flag and port States.

**General principles of CME and critical elements of CME systems in the context of maritime conventions (Mr. Zafrul Alam)**

The presentation of Mr. Zafrul Alam allowed the participants to identify the relevant provisions of the international legal instruments that have to be taken into consideration when implementing the BWM Convention at a national level, such as the Convention of the Law of the Sea (UNCLOS), the Convention on Biological Diversity (CBD) or the International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978 (MARPOL 73/78). The common principles to these conventions and the BWM Convention were outlined: principles of a general nature (such as the precautionary approach), preventive principles (Border Control and Quarantine Measures, Exchange of Information, Cooperation), introduction principles (intentional versus non-intentional) etc.

**Specific CME strategies and principles under the BWM Convention (Mr. Zafrul Alam)**

Mr Zafrul Alam presented an overview of the basic concepts of a CME system and detailed the elements that should be included in the system: means for the ship to collect and record information on their BWM practices, a means to transmit this information to the port State authorities and receive directions, provisions for auditing official records to check compliance, ability for the relevant authority to take and analyze samples, legal provisions for enforcement in case of non compliance, and requirements for notification of arrangements to IMO. He emphasised the major roles of Flag, Port and Coastal State control authorities and on the importance of cooperation between all stakeholders in order to set up a uniform and efficient CME system. Finally, he explained the notion of "risk" and its incorporation in a CME system in order to target high risk vessels. Including the risk factor leads to targeting high risk vessels and to possibilities of exemptions for low risk vessels. This process is facilitated by biological baseline surveys in ports.

**SEGMENT 2 – The approaches**

Segment 2 outlined the required regulatory framework for the implementation of the BWM Convention with particular reference to port State control procedure and also familiarised participants with practical issues related to the required on board ship equipment for the implementation of the Convention.

**Port State Control: a three tiered approach (Dr. Raphaël Baumler)**

After an introduction on the meaning of port State control (PSC) at the global, the national and at the ship's levels, Dr. Baumler presented the vessel's approach to port State control and in particular the required on board documentation related to the BWM Convention. Whilst pointing out that the BWM Convention involved extra work for the crew, he focused on the local/national level of PSC and the inspections that are carried out by PSC officers: initial inspections followed by more detailed inspections, if necessary, and expanded inspections for identified vessels, when risk assessment is carried out. Finally, he presented the role and aims of the various Memoranda of Understanding (MoU) on PSC at the regional level, in terms of increased compliance, safety and protection of the environment, harmonization of procedures and exchange of information.

**Inspections for Port State Control (Mr. Zafrul Alam)**

Mr. Alam completed the previous presentation by focusing on the CME provisions in the BWM Convention, and detailing the onboard documents and e-reporting. He presented the document auditing for non-compliance, as well as violations and their reporting. He then focused on the procedure for approval of Ballast Water Management Systems, including the ones using active substances. Finally, he explained the ongoing work currently being carried out at IMO for harmonization of port State control activities and the development of PSC guidelines for the enforcement of the BWM Convention.

**Table Top Exercise – group discussion**

The participants were divided into five groups and asked to answer a list of questions related to CME issues. The questions addressed a wide range of topics, including the general benefits of a CME system, the tools available for port State control, cooperation between all concerned stakeholders, research and development. The participants were also invited to raise any other points/ issues that they wished to make.

During this table top exercise, the participants had the opportunity to exchange views and develop the points of particular interest for them. The lecturers, together with the REMPEC and GloBallast PCU teams, were assisting the different groups to facilitate the discussion, and summarise the answers and concerns to the various questions.

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**Day 2**

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**Exercise – group discussion report**

The REMPEC/GloBallast PCU teams in close co-operation with the lead consultant and the lecturers prepared a short power point presentation summarising the answers and the concerns raised in the various groups which was presented to the participants by Mr Alam.

As a whole, the participants had a clear picture of flag and port State control procedures. However, approaches to be taken by various Flag and Port State Control authorities in enforcing the Convention may vary. The issue of sampling was of particular concern to the participants, who pointed out the difficulty of such an operation (representative sampling, limits of the equipment, possibility of cross-checks, cost and time of the analysis).

**A national example: the regulatory and Port State Control framework in Croatia (Ms. Ivana Marović)**

Ms. Marovic first recalled the steps taken by Croatia since a first study on the potential impacts of ballast water discharges in 2004, which led to the adoption of an Ordinance on Ballast Water Management and Control in 2007. She then detailed the measures included in the Ordinance, starting by the application of the precautionary approach during ballast water uptake. She outlined the different possibilities for ballast water management (exchange, treatment, discharge into a reception facility, retain on board) explaining that these measures have to be implemented before entering the internal or territorial sea and without impeding the safety of the ship. She recalled the obligations for on board documentation and reporting, pointing out that electronic reporting would be useful. She then focused on sampling procedures and standards; the cost of sampling and analysis is an issue as it is generally borne by the Ministry; other challenges for sampling are the development of a standard protocol for sampling, the availability of laboratories, and the time needed for the analysis. Future challenges and activities involve the targeting of ships through risk assessment, the coordination of port baseline surveys and development of a national strategy and related legal instruments.

**A practical view on enforcing the BWM Convention (Mr. Tonci Tardic)**

Mr. Tonci Tardic presented the perspective of a shipowning company, focusing on the technical aspects of ballast water treatment. He listed the decision factors for the choice of a treatment system (type of ship, amount of ballast water, configuration of the ship, impact of the system on the ship, training of the crew, likely trading patterns, etc.). He then presented an overview of the different treatment processes available, such as ozonation, UV irradiation or deoxygenation, outlining their pros and cons. He explained how the corresponding equipment will be installed on newly built ships compared to retrofitting for ships already operating. Finally, he presented his concerns related to ballast water treatment, explaining the different problems that a shipowner has to face.

**SEGMENT 3 – The tools**

Segment 3 familiarised the participants with the tools available or under development that facilitate the implementation of the BWM Convention.

**Introduction to Sampling for CME (Mr. Brian Elliot)**

After presenting the activities of EMSA in the field of ballast water management, Mr. Brian Elliot recalled the role of sampling in the context of PSC inspections. He explained that the aim of sampling

is not to check for the presence of invasive species but to check whether the ballast water management system on board is in compliance to the D-1 (Ballast Water Exchange) and D-2 (Ballast Water Treatment) Standards of the BWM Convention. The philosophy of sampling was then discussed: what is really sampled? What is the representativeness of the samples? He recalled that sampling and analysis methodologies and protocols are still in development at this stage and that some issues are still being discussed.

Mr Elliot then explained the difference between indicative and full scale analysis, before focusing on each of them. In the case of testing for compliance to D-1 standard, the analysis involves salinity, coastal versus oceanic species. In the case of testing for compliance to D-2 standard, he presented the range of testing methods and equipments available and provided some suggestions for best compromise. Finally, he outlined the numerous issues that are still under discussion with regard to sampling, outlining that a lot more work and testing is required in this field. As a conclusion, he invited the participants to observe a sample of seawater through a stereo microscope, and to try and find out micro organisms; this practical exercise outlined the difficulty of detailed analysis and representativeness.

#### **The GloBallast Country Profile Database and tools for regional harmonization and cooperation (Mrs. Aicha Cherif)**

Mrs. Aicha Cherif introduced one of the tools for CME addressed to all stakeholders involved in BWM, the GloBallast Country Profile Database (CPD). She explained that this publicly available web based database is aimed at providing information on the regulatory requirements and other BWM related information to ship-owners, crew members, flag States, port States and other interested parties. She urged the participants to contact their administration through the GloBallast Partnerships Project Focal Points in order to complete the profile of their country, and she explained how the CPD can be accessed and completed through a user-friendly interface. She finally pointed out that the CPD will be combined with a database on all regulations regarding shipping related pollution developed with the Maritime Environmental Resource Center (MERC), Maryland, USA.

#### **Ballast Water Risk Assessment System (Dr. Arzu Olgun)**

Dr. Arzu Olgun presented the web-based information system currently being developed by Turkey on Ballast Water Risk Assessment (BWRA) which is a tool used to determine the risk of biological invasion between the source port and the recipient port. The system, based on the GloBallast BWRA methodology, is a user friendly management tool that will allow monitoring and selective controls of vessels and the granting of exemptions to the requirements of the regulations B-3 or C-1. She presented the regulations and guidelines related to exemptions, which can be based on three methods of risk assessment: environmental matching risk assessment, species' bio geographical risk assessment, and species-specific risk assessment. She then detailed the Globallast methodology which is a semi-quantitative risk analysis methodology, assessing the risk related to a source port (ROR: Relative Overall Risk). Different parameters weighed with coefficients are included for each port, based on the environmental characteristics and trading patterns of each port. She outlined the difficulties related to data quality and knowledge gaps. She then moved on to present the tool itself

with its interface and the different data to be included. The BW risk assessment system tool combines a BW reporting form system, the BW risk analysis system, and a database on harmful aquatic organisms and a port database

**Role play exercise – BWM Convention and Port State Control: what is new and what are the challenges?**

After the set of presentations, the participants were invited to take a more active role and participate into a role play exercise. They were divided into five groups and asked to play a role each, (director of marine, port master, national coordinator, head of PSC in the port administration, PSC officer, etc..). The participants first had to describe the responsibilities associated with each role; several situations were then presented to the groups and the participants had to make decisions and identify the actions they would carry out in each case. As during the table top exercise on the first day, the lecturers, together with the REMPEC and GloBallast PCU teams, were assisting the different groups to support the discussion. Mr. Zafrul Alam then led the conclusion of the exercise by asking the participants to report their recommendations and decisions in each scenario.

**SEGMENT 4 – The conclusions**

Segment 4 aimed at discussing the current situation in the Mediterranean Region regarding ballast water management and CME issues. The participants were invited to share their views on the application of the BWM Convention in the region, and also to provide feedbacks on the Workshop.

**GloBallast Partnerships in the Mediterranean Region (Mr. Jonathan Pace)**

After recalling the funding and aims of the GloBallast Partnerships in the Mediterranean Region, which is implemented by REMPEC in collaboration with UNEP-MAP's RAC/SPA, Mr. Jonathan Pace detailed the achievements of the project to date. In particular, he focused on the outcome of the last meeting of the Regional Task Force (RTF), which was held in Istanbul in June 2010. The RTF members agreed on a draft Regional Strategy on Ballast Water Management, including strategic priorities and actions together with an implementation timetable. The draft Strategy should be adopted by the Contracting Parties to the Barcelona Convention at the end of 2011. An agreement was also reached on a regional system for CME, a structure for a Regional Information System, Voluntary Arrangements for Ballast Water exchange in the Mediterranean, and on a document on General Guidance on Ballast Water exchange. He then focused on the priorities and actions of the draft strategy related to CME issues, and detailed the proposed CME system.

### **3.3 Evaluation and Closing Session of the Training Workshop**

There was a high degree of interest in the subject matter of the Workshop amongst the participants and the majority of participants actively participated in the discussion and in the debates, and contributed enthusiastically. At the end of the Workshop, the participants were invited to fill in an anonymous evaluation form to provide feedback on the Workshop. The results of the Evaluation Form are summarised in **Annex III** to the present report.

A good percentage of the participants which returned the evaluation forms (58%) confirmed that the Training Workshop met their expectations and another 32% indicated that the Workshop went beyond their expectations. All the respondents judged the quality of the presentations as “very good” or “good”, with only one participant (3%) indicating the presentations as “Quite Good”. As regards the Training Workshop in general, all the respondents were satisfied with the Course, with 58% indicating that they were “Very Satisfied”.

The Training Workshop was concluded at 1730hrs on the 16 March 2011 with closing remarks by Mr Fredrik Haag from the GloBallast PCU and by Mr Jonathan Pace from REMPEC, and with the presentation of a certificate of attendance to all participants by Mr Zafrul Alam, the Training Workshop’s lead consultant and lecturer. Both Mr Haag and Mr Pace thanked the Croatian authorities, in particular Ms. Ivana Marovic, for the support and valuable collaboration provided, which ensured the best working conditions for the success of the Training Workshop. They also thanked all lecturers and participants for their active contribution to the Workshop.

**ANNEX I**

**LIST OF PARTICIPANTS**

**ALBANIA / ALBANIE**

**CERTIFICATE NO.: 2948**

**Captain Hamdi DOMI**

Head  
Sector of Inspection and Flag State Control  
General Maritime Directorate  
Stef Kaculini  
Durrës

Tel No: +355 52 224 162  
Mobile: +355 69 209 48 60  
Fax No: +355 52 222 868  
E-mail: [hamdidomi@yahoo.it](mailto:hamdidomi@yahoo.it)

**CERTIFICATE NO.: 2949**

**Mr Thana ELSON**

Specialist in the Directory of Maritime Transport Policy  
Ministry of Public Works and Transport  
Sheshi "Skenderbej" No. 3  
Tirana

Tel No: +355 4 22 32 477  
Mobile: +355 67 407 1978  
E-mai: [elsonth@yahoo.com](mailto:elsonth@yahoo.com)

**ALGERIA / ALGERIE**

**CERTIFICATE NO.: 2950**

**M Toufik BELOUAR**

Inspecteur en Chef de 2<sup>ème</sup> Classe  
Département des Affaires Maritimes  
Direction de la marine marchande et des ports  
Ministère des transports  
1 chemin Ibn El Mouiz (ex Poirson)  
El Biar  
16000 Alger

Portable: +213 661 640 397  
E-mail: [mrccalgiers@mdn.dz](mailto:mrccalgiers@mdn.dz)

**ALGERIA / ALGERIE (cont.)**

**CERTIFICATE NO.: 2951**

**M Tahar KSAIAR**

Inspecteur en Chef de 1<sup>ère</sup> Classe  
Circonscription Maritime  
Département des Affaires Maritimes  
Direction de la marine marchande et des ports  
Ministère des transports  
1 chemin Ibn El Mouiz (ex Poirson)  
El Biar  
16000 Alger

Portable : +213 666 665 064  
E-mail: [mrccalgiers@mdn.dz](mailto:mrccalgiers@mdn.dz)

**BOSNIA AND HERZEGOVINA / BOSNIE ET HERZÉGOVINE**

**CERTIFICATE NO.: 2952**

**Ms Nada MLINAR**

Expert Associate  
Ministry of Foreign Trade and Economic Relations  
Musala 9  
Sarajevo 71 000

Tel No: +387 71 332 621 65  
Mobile: +387 65 573 201  
Fax No: +387 71 335 523 65  
E-mail: [nada.mlinar@mvteo.gov.ba](mailto:nada.mlinar@mvteo.gov.ba)

**CERTIFICATE NO.: 2953**

**Ms Marina FUSCO**

Expert Associate  
Hydro-Engineering Institute of Faculty of Civil Engineering  
Stjepana Tomica 1  
Sarajevo 71 000

Tel No: +387 33 21 24 66  
Mobile: +387 62 14 68 78  
Fax No: +387 33 21 24 66  
E-mail: [marina.fusco@heis.com.ba](mailto:marina.fusco@heis.com.ba)



**CROATIA/ CROATIE**

**CERTIFICATE NO.: 2954**

**Captain Milivoj ANDRAKA**  
Senior P.S.C. Inspector  
Ministry of Sea, Transport and Infrastructure  
Harbour Master's Office Rijeka  
Senjsko pristaniste 3  
51 000 Rijeka

Tel No: +385 51 212 474  
Mobile: +385 98 367 837  
Fax No: +385 51 212 696  
E-mail: [milivoj.andraka@pomorstvo.hr](mailto:milivoj.andraka@pomorstvo.hr)

**CERTIFICATE NO.: 2955**

**Captain Toni GRGIC**  
P.S.C.O  
Harbour Master's Office Ploce  
Trg K.. Tomis 24  
Ploce 20340

Tel No: +385 20 670 506  
Mobile: +385 98 98 27 353  
Fax No: +385 20 678 621  
E-mail: [toni.grgic@pomorstvo.hr](mailto:toni.grgic@pomorstvo.hr)

**CERTIFICATE NO.: 2957**

**Ms Ivana MAROVIĆ**  
Department for Maritime Traffic and Maritime Search and Rescue  
Directorate for Seafaring Safety and Sea Protection  
Ministry of Sea, Transport and Infrastructure  
Harbour Master Office Split  
Obala Lazareta 1  
21000 Split

Tel No: +385 21 345 656  
Fax No: +385 21 345 656  
E-mail: [ivana.marovic@pomorstvo.hr](mailto:ivana.marovic@pomorstvo.hr)

**CERTIFICATE NO.: 2983**

**Ms Katja BOZIC**  
Senior Advisor  
Directorate of Maritime Traffic, Maritime Domain and Ports  
Ministry of Sea, Transport and Infrastructure  
Prisavlje 14  
10000 Zagreb

Tel No: +385 21 39 06 04  
Fax No: +385 1 619 59 56  
E-mail: [katja.bozic@pomorstvo.hr](mailto:katja.bozic@pomorstvo.hr)

**CYPRUS / CHYPRE**

**CERTIFICATE NO.: 2958**

**Mr Nicos ATTAS**  
Marine Surveyor A  
Marine Environment Protection Section  
Department of Merchant Shipping  
Kyllinis Street  
Mesa Geitonia  
4007 Lemesos

Tel No: +357 25 84 81 32  
Mobile: +357 96 56 00 20  
Fax No: +357 25 84 82 00  
E-mail: [nattas@dms.mcw.gov.cy](mailto:nattas@dms.mcw.gov.cy)

**EGYPT / ÉGYPTE**

**CERTIFICATE NO.: 2959**

**Mr Deya Eldin SADEK**  
Director of Follow-up Department  
Maritime Transport Sector  
Ministry of Transport  
4, Ptolemy Street  
Alexandria 21514

Tel No: +20 3 484 2059  
+20 3 484 2119  
Mobile: +20 10 11 894680  
Fax No: + 20 3 484 2096  
+20 3 484 2041  
E-mail : [ragheb1011@hotmail.com](mailto:ragheb1011@hotmail.com)

**CERTIFICATE NO.: 2960**

**Eng. Mohamed RADY**  
Maritime Inspection Engineer  
Egyptian Authority for Maritime Safety  
Bob Gomrok 1  
21513 Alexandria

Tel No: +20 3 350 20 152  
Mobile: +20 10 29 69 800  
Fax No: +20 3 487 56 33  
E-mail: [Mohamedrady\\_1977@yahoo.com](mailto:Mohamedrady_1977@yahoo.com)

**EUROPEAN COMMISSION / COMMISSION EUROPEENNE**

**Mr Brian ELLIOTT**

Senior Project Officer for Environmental Protection  
European Maritime Safety Agency (EMSA)  
Cais de Sodre  
1249-206 Lisbon  
PORTUGAL

Tel No: +351 211 2094 69  
Fax No: +351 211 209 261  
E-mail: [BRIAN.ELLIOTT@emsa.europa.eu](mailto:BRIAN.ELLIOTT@emsa.europa.eu)

**GREECE/ GRECE**

**CERTIFICATE NO.: 2962**

**Chief Petty Officer of H.C.G Konstantinos FOUNTOUKOS**

3<sup>rd</sup> Section - International Co-operation  
Ministry of Maritime Affairs, Islands and Fisheries  
Marine Environment Protection Directorate  
Akti Vasiliadi Gate E1  
Port of Piraeus 18510

Tel No: +30 210 419 1304  
Fax No: +30 210 422 0440  
E-mail: [dpthap@yen.gr](mailto:dpthap@yen.gr)

**ISRAEL / ISRAEL**

**CERTIFICATE NO.: 2963**

**Captain Shay NAHARY**

Marine Inspector  
Ministry of Transport  
Administration of Shipping and Ports  
15a Pal-Yam Street Building B  
Government Centre  
Haifa 31999

Tel No: +972 4 863 20 80  
Mobile: +972 54 720 3431  
Fax No: +972 4 863 21 18  
E-mail: [naharysh@mot.gov.il](mailto:naharysh@mot.gov.il)

**ITALY / ITALIE**

**CERTIFICATE NO.: 2964**

**Cdr Roberto AGOSTINIS**

Head of Marine Safety Department – Harbour Master  
Office, Trieste – Regional Port State Control Coordinator  
Member of the permanent group of experts of the Trilateral (Italy-  
Slovenia – Croatia)  
Sub-commission (BWMSC) for the Protection of the Adriatic Sea  
Italian Coast Guard – Harbour Master Officer Trieste  
Piazza Duca degli Abruzzi n.4  
Trieste 34123

Tel No: +39 040 676 611  
Mobile: +39 348 282 9595  
Fax No: +39 040 676 665  
E-mail: [Roberto.agostinis@mit.gov.it](mailto:Roberto.agostinis@mit.gov.it)

**LEBANON / LIBAN**

**CERTIFICATE NO.: 2965**

**Mr Tony ASSAF**

Head of International Agreements Section  
Ministry of Public Works and Transport  
Directorate General of Land and Maritime Transport  
George Picot Street - Central District  
Beirut

Tel No: +961 1 372 790  
Mobile: +961 3 494 478  
Fax No: +961 1 372 790  
E-mail: [toniassaf@hotmail.com](mailto:toniassaf@hotmail.com)

**CERTIFICATE NO.: 2966**

**Captain Georges GEAGEA**

Port State Control Officer  
Ministry of Public Works and Transport  
Directorate General of Land and Maritime Transport  
George Picot Street  
Beirut

Tel No: +961 1 371 644  
Mobile: +961 3 839 139  
Fax No: +961 1 372 794  
E-mail: [georgesgeagea@hotmail.com](mailto:georgesgeagea@hotmail.com)

**MALTA / MALTE**

**CERTIFICATE NO.: 2967**

**Mr Keon VELLA**

Flag & Port State Control Inspector  
Transport Malta  
Xatt l-Ghassara ta l-Gheneb  
1917 Marsa

Tel No: +356 21 250 360  
Mobile: +356 7969 1320  
Fax No: +356 21 241 460  
E-mail: [keon.vella@transport.gov.mt](mailto:keon.vella@transport.gov.mt)

**MONACO / MONACO**

**CERTIFICATE NO.: 2968**

**M Pierre BOUCHET**

Adjoint Directeur des affaires maritimes  
Direction des affaires maritimes  
Département de l'équipement, de l'environnement et de l'urbanisme  
Quai Jean Charles Rey  
B.P. 468  
MC-98012 Monaco Cedex

Tel No: +377 (-) 98 98 22 80  
Portable: +377 (06) 07 93 17 99  
Fax No: +377 (-) 98 98 22 81  
E-mail: [pbouchet@gouv.mc](mailto:pbouchet@gouv.mc)

**MONTENEGRO/ MONTENEGRO**

**CERTIFICATE NO.: 2981**

**Ms Dailborka PEJOVIC**

Director  
Environmental Protection Agency  
IV Proleterske No. 19  
Podgorica 81000

Tel No: +382 20 446 555  
Mobile : +382 672 258 66  
Fax No: +382 20 446 587  
E-mail: [daliborka.pejovic@epa.org.me](mailto:daliborka.pejovic@epa.org.me)

**MONTENEGRO/ MONTENEGRO (cont.)**

**CERTIFICATE NO.: 2982**

**Mr Aleksandar BOŽOVIĆ**

Senior Advisor in the Department for Monitoring, Analyses and Reporting  
Environmental Protection Agency  
IV Proleterske No. 19  
Podgorica 81000

Tel No: +382 20 446 506  
Mobile : +382 672 55 600  
Fax No: +382 20 446 587  
E-mail: [aleksandar.bozovic@epa.org.me](mailto:aleksandar.bozovic@epa.org.me)

**MOROCCO / MAROC**

**CERTIFICATE NO.: 2969**

**M Younes ALAHAINÉ**

Chef de Service de la marine Marchande d' El Jadida  
Ministère de l'équipement et des transports  
Direction de la Marine Marchande  
BD Felix Houphouet Boigny  
Casablanca

Tel No: +212 6 73 233 810  
Portable: +212 664 697 276  
Fax No: + 212 5 345 190  
E-mail: [y\\_marmar@hotmail.com](mailto:y_marmar@hotmail.com)

**CERTIFICATE NO.: 2970**

**M Abdelfattah KANDANI**

Chef de Service de la marine Marchande de Safi  
Ministère de l'équipement et des transports  
Service Marine Marchande de Safi  
Safi

Tel No: +212 52 462 6943  
Portable: +212 667 353 350  
Fax No: + 212 52 462 6943  
E-mail: [kandaniabdelfattah@yahoo.fr](mailto:kandaniabdelfattah@yahoo.fr)

**SLOVENIA / SLOVÉNIE**

**CERTIFICATE NO.:2971**

**Mr Sandro GASPARINI**  
Port State Control Officer  
Slovenian Maritime Administration  
Ukmarjev Trg 2  
Koper 6000

Tel No: +386 5 663 2144  
Mobile: +386 31 337 493  
Fax No: +386 5 663 2145  
E-mail: [sandro.gasparini@gov.si](mailto:sandro.gasparini@gov.si)

**CERTIFICATE NO.: 2972**

**Mr Jože KLEMENČIČ**  
Technical and Logistics Coordinator  
Slovenian Maritime Administration  
Ukmarjev Trg 2  
Koper 6000

Tel No: +386 5 663 2100  
Mobile: +386 51 628 977  
Fax No: +386 5 663 21 02  
E-mail: [joze.klemencic@gov.si](mailto:joze.klemencic@gov.si)

**SPAIN / ESPAGNE**

**CERTIFICATE NO.: 2973**

**Mrs Maria Goretti DE LA FUENTE SANCHEZ**  
Head of Service Coordination and Studies (Maritime Pollution Department)  
Directorate General of Merchant Marine  
Ruiz de Alarcon, 1  
Madrid 28071

Tel No: +34 91 597 90 42  
Mobile: +34 650 272 544  
Fax No: +34 91 597 92 35  
E-mail: [mgdelafuente@fomento.es](mailto:mgdelafuente@fomento.es)

**SYRIA/ SYRIE**

**CERTIFICATE NO.: 2974**

**Eng Adel JARKAS**  
Head of Small Vessel Department  
General Directorate of Ports  
Ministry of Transport  
P.O. Box 505  
Al Gazair Street  
Lattakia

Tel No: +963 41 47 38 76  
Mobile: +963 933 69 69 91  
Fax No: +963 41 47 58 05  
E-mail: [adel.jarkas@live.com](mailto:adel.jarkas@live.com)  
[info@gdp-sy.com](mailto:info@gdp-sy.com)

**SYRIA/ SYRIE (cont.)**

**CERTIFICATE NO.: 2975**

**Eng Habib DERATTANI**  
Deputy Director  
Ministry of Environmental Affairs  
Environment Directorate – Lattakia  
7<sup>th</sup> Street  
Lattakia

Tel No: +963 41 244 179  
Mobile: +963 933 96 74 73  
Fax No: +963 41 211 189  
E-mail: [habibd\\_7@hotmail.com](mailto:habibd_7@hotmail.com)

**TUNISIA / TUNISIE**

**CERTIFICATE NO.: 2976**

**M.Kheireddine SGHAIER**  
Chef de la Division Navigation Maritime  
Office de la marine marchande et des ports  
La Goulette 2060

Tel No: +216 71 736 779  
Portable: +216 23 790 429  
Fax No: +216 71 737 559  
E-mail: [k.essghaier@ommp.nat.tn](mailto:k.essghaier@ommp.nat.tn)

**CERTIFICATE NO.: 2977**

**M Abderraouf BEN AMEUR**  
Chef du Service Régional de la Sécurité Maritime de Sfax  
Office de la marine marchande et des ports  
Port de Pêche de Sfax  
Sfax 3065

Tel No: +216 74 497 717  
Portable: +216 98 916 354  
Fax No: +216 74 497 201  
E-mail: [a.benameur@ommp.nat.tn](mailto:a.benameur@ommp.nat.tn)



**TURKEY / TURQUIE**

**CERTIFICATE NO.: 2978**

**Mr Omer TIKTIK**

Prime Ministry Undersecretariat for Maritime Affairs  
General Directorate for Marine Transport  
GMK Bulvari No.128 - Kat 6  
06570 Maltepe  
Ankara

Tel No: +90 312 232 3850  
+90 312 232 21 74  
Mobile: +90 532 524 33 71  
Fax No: +90 312 231 3306  
E-mail: [omer.tiktik@denizcilik.gov.tr](mailto:omer.tiktik@denizcilik.gov.tr)

**CERTIFICATE NO.: 2979**

**Mr Murat KORCAK**

Engineer in Maritime Environment Division  
Prime Ministry Undersecretariat for Maritime Affairs  
Denizcilik Mustesarligi  
GMK Bulvari No.128 - Kat 6  
ODA: 603 Maltepe  
Ankara

Tel No: +90 312 232 3850  
+90 312 232 21 74  
Mobile: +90 532 524 33 71  
Fax No: +90 (312) 231 33 06  
E-mail: [murat.korcak@denizcilik.gov.tr](mailto:murat.korcak@denizcilik.gov.tr)  
[muratkorcak@gmail.com](mailto:muratkorcak@gmail.com)

**CERTIFICATE NO.: 2980**

**Dr Arzu OLGUN**

Senior Researcher  
TUBITAK – Marmara Research Centre  
P.O. Box 21  
41470 Gebze / KOCAELİ

Tel No: +90 262 677 29 46  
Mobile: +90 5552637679  
Fax No: +90 262 644 45 77  
E-mail: [arzu.olgün@mam.gov.tr](mailto:arzu.olgün@mam.gov.tr)

**UNITED NATIONS ORGANIZATIONS / ORGANISATIONS DES NATIONS-UNIES**

**INTERNATIONAL MARITIME ORGANIZATION (IMO) / ORGANISATION MARITIME  
INTERNATIONALE (OMI) - GLOBALLAST**

**Mr Fredrik HAAG**

Technical Advisor  
GloBallast Partnerships Project Coordination Unit  
Marine Environment Division  
International Maritime Organization  
4 Albert Embankment  
London SE1 7SR  
UNITED KINGDOM

Tel no: + 44 (207) 463 41 61  
Fax no: + 44 (207) 587 3210  
E-mail: [fhaag@imo.org](mailto:fhaag@imo.org)

**Ms Aicha CHERIF**

Programme Management Assistant  
GloBallast Partnerships Project Coordination Unit  
Marine Environment Division  
International Maritime Organization  
4 Albert Embankment  
London SE1 7SR  
UNITED KINGDOM

Tel no: + 44 (207) 463 42 15  
Fax no: + 44 (207) 587 3210  
E-mail: [acherif@imo.org](mailto:acherif@imo.org)

**MEDITERRANEAN ACTION PLAN PARTNERS / NON-GOVERNMENTAL  
ORGANIZATIONS/ PARTENAIRES DU PLAN D'ACTION POUR LA MEDITERRANEE /  
ORGANISATIONS NON-GOUVERNEMENTALES**

**INTERNATIONAL UNION FOR CONSERVATION OF NATURE (IUCN)**

**Mr Adnan AWAD**

Director, International Ocean Institute of South Africa (IOI)  
Technical Director – Marine Invasive Species, Global Invasive Species Programme  
Department of Biodiversity and Conservation Biology  
University of Western Cape  
Private Bag X17, Bellville 7535  
CapeTown, SOUTH AFRICA

Tel No: +27 (21) 959 30 88  
Mobile : +27 82 785 96 78  
Fax: +27 (21) 959 12 13  
E-mail: [awad.adnan@gmail.com](mailto:awad.adnan@gmail.com)

**LECTURERS / CONFERENCIERS**

**Mr Brian ELLIOTT**

Senior Project Officer for Environmental Protection  
European Maritime Safety Agency (EMSA) – Representing the European Union  
Cais de Sodre  
1249-206 Lisbon  
PORTUGAL

Tel No: +351 211 2094 69  
Fax No: +351 211 209 261  
E-mail: [BRIAN.ELLIOTT@emsa.europa.eu](mailto:BRIAN.ELLIOTT@emsa.europa.eu)

**Ms Ivana MAROVIĆ**

Department for Maritime Traffic and Maritime Search and Rescue  
Directorate for Seafaring Safety and Sea Protection  
Ministry of Sea, Transport and Infrascture  
Harbour Master Office Split  
Obala Lazareta 1  
21000 Split  
CROATIA

Tel No: +385 21 345 656  
Fax No: +385 21 345 656  
E-mail: [ivana.marovic@pomorstvo.hr](mailto:ivana.marovic@pomorstvo.hr)

**Mr Tonci TADIC**

Director of Environmental Strategy  
Zodiac Maritime Agencies Ltd  
13<sup>th</sup> Floor, Sea Containers House,  
20 Upper Ground,  
London, SE1 9PD  
UNITED KINGDOM

Tel No: +44 207 333 23 06  
Fax No: +44 207 333 22 33  
E-mail: [t.tadic@zodiac-maritime.com](mailto:t.tadic@zodiac-maritime.com)  
[green@zodiac-maritime.com](mailto:green@zodiac-maritime.com)

**Dr Raphael BAUMLER**

Assistant Professor  
World Maritime University (WMU)  
P.O. Box 500  
21024 Malmö  
SWEDEN

Tel No: +46 40 35 63 382  
Fax No: +46 40 12 84 42  
E-mail: [rb@wmu.se](mailto:rb@wmu.se)

**LECTURERS / CONFERENCIERS**

**Dr Zafrul ALAM**

Assistant Director (Shipping Regulation & Development)  
Shipping Division  
Maritime and Port Authority of Singapore (MPA)  
460 Alexander Road #1 2100 PSA Building  
Singapore 119963

Tel No: (65) 6375 6204  
Fax No: (65) 6375 6231  
E-mail: [Zafrul\\_ALAM@mpa.gov.sg](mailto:Zafrul_ALAM@mpa.gov.sg)

**INTERPRETERS / INTERPRETES**

**Ms Ivana DULCIC**

Srebnjak 49  
1000 Zagreb  
CROATIA

Mobile: + 385 98 92 33 708  
E-mail: [idualcic@yahoo.com](mailto:idualcic@yahoo.com)

**Ms Marija MARUSIC**

Savska 101  
10 000 Zagreb  
CROATIA

Mobile + 385 91 502 4600  
E-mail: [marija.marusic@zg.t-com.tr](mailto:marija.marusic@zg.t-com.tr)

**Mme Andreja MONTANI**

17 Rue des Arquebusiers  
75003 Paris  
FRANCE

Tel No: + 33 1 48 87 60 13  
Portable : +33 6 80 57 71 62  
E-mail: [andreja.montani@gmail.com](mailto:andreja.montani@gmail.com)

**SECRETARIAT / SECRETARIAT**

**REGIONAL MARINE POLLUTION EMERGENCY RESPONSE CENTRE FOR THE  
MEDITERRANEAN SEA (REMPEC)  
CENTRE REGIONAL MÉDITERRANÉEN POUR L'INTERVENTION D'URGENCE  
CONTRE LA POLLUTION MARINE ACCIDENTELLE (REMPEC)**

**Mr Jonathan PACE**

Senior Programme Officer

E-mail: [jpance@rempec.org](mailto:jpance@rempec.org)

**Mlle Sophie MARTIN**

Junior Programme Officer

E-mail: [smartin@rempec.org](mailto:smartin@rempec.org)

REMPEC

Maritime House

Lascaris Wharf

Valletta VLT 1921

Tel no: +356 21 33 72 96/7/8

Fax no: +356 21 33 99 51

E-mail: [rempec@rempec.org](mailto:rempec@rempec.org)

**ANNEX II**

**PROGRAMME**

**DAY 1 – 15 March 2011**

Time	Session	
0830-0900	<b>Registration</b>	
0900-0930	<b>Opening ceremony and introduction</b>	
<i>Segment 1 – The frameworks</i>		
0930-1000	<b>Movie BBC/IMO – Invaders from the sea</b>	
1000-1030	<b>Introduction to the BWM Convention and ballast water management options</b> - including the roles and responsibilities under the BWM Convention	<i>Mr. Fredrik Haag</i>
1030-1100	<i>Coffee break</i>	
1100-1200	<b>General principles of CME and critical elements of a CME systems in the context of maritime conventions</b>	<i>Mr. Zafrul Alam</i>
1200-1230	<b>Specific CME strategies and principles under the BWM Convention</b> including integration of risk assessments in CME	<i>Mr. Zafrul Alam</i>
1230-1400	<i>Lunch</i>	
1400-1415	<b>(cont.) Specific CME strategies and principles under the BWM Convention</b>	<i>Mr. Zafrul Alam</i>
<i>Segment 2 – The approaches</i>		
1415-1445	<b>Port State Control: A three-tiered approach</b>	<i>Dr. Raphael Baumler</i>
1445-1530	<b>Inspections for PSC</b> Onboard Documents, Documents auditing for non-compliance, E-reporting examples, Violations and Reporting of Violations, Enforcement Actions	<i>Mr. Zafrul Alam</i>
1530-1600	<i>Coffee break</i>	
1600-1630	<b>(Cont.) Inspections for PSC</b>	<i>Mr. Zafrul Alam</i>
1630-1730	<b>Exercise</b>	<i>Mr. Zafrul Alam and Mr. Fredrik Haag</i>

**DAY 2 - 16 March 2011**

Time	Session	
0900-0930	<b>Exercise conclusions</b>	
0930-1000	<b>A National Example: The regulatory and PSC framework in Croatia</b>	<i>Ms. Ivana Marovic</i>
1000-1030	<b>A practical view on enforcing the BWM Convention</b>	<i>Mr. Zafrul Alam and Mr. Tonci Tadic</i>
1030-1100	<i>Coffee break</i>	
<i>Segment 3 – The tools</i>		
1100-1200	<b>Introduction to Sampling for CME</b> (Overview of sampling requirements and techniques, Sampling tools, Ballast water monitoring, Approaches to monitoring, Levels of monitoring, BW Monitoring tools and techniques)	<i>Mr. Brian Elliott</i>
1200-1230	<b>The GloBallast Country Profile Database and tools for regional harmonization and cooperation and a presentation of global and regional examples of information systems</b>	<i>Ms. Aicha Cherif and Dr. Arzu Olgun</i>
1230-1400	<i>Lunch</i>	
1400-1600	<b>Role play:</b> BWM Convention and Port State Control (PSC) – What is new and what are the challenges	
1600-1615	<i>Coffee break</i>	
1615-1645	<b>Role play:</b> Round-up / conclusions	
<i>Segment 4 – The conclusions</i>		
1645-1700	<b>Discussion:</b> Applying the Convention in the Mediterranean – what are the needs and Concerns? Recommendations to the Regional Task Force?	<i>Mr. Zafrul Alam, Mr. Fredrik Haag, Mr. Jonathan Pace</i>
1700-1715	<b>Closing ceremony</b>	

**ANNEX III**

**EVALUATION FORM ANALYSIS**

1. Did the Workshop meet your expectations?

Beyond your expectations	(32%)	10
More or less on par with your expectations	(58%)	18
Below your expectations	(10%)	3

2. Generally speaking, how do you judge the content and quality of the lectures/presentations?

Very good (65%)	20	Quite good (3%)	1
Good (29%)	9	Not good enough (0%)	0

**Left blank (3%): 1**

3. Did you acquire new knowledge during this Workshop?

Very much (68%)	21	Some (32%)	10	Not enough	0
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4. What are the main lessons you learnt during the Workshop?

The main lessons learnt are related to the impact of invasive species transferred through ballast water discharges (2 comments), the project GloBallast Partnerships (3 comments), the content and structure of the BWM Convention (6 comments), compliance requirements and CME principles and strategies (3 comments), Port State Control inspections (11 comments), sampling (13 comments) and treatments (1 comment). Other elements mentioned once are the Croatian situation, the point of view of the shipping industry, and the fact that reception facilities are not compulsory.

For some participants, the Workshop outlined the complexity of the issue (“there are many difficulties which would probably take time to be dealt with regarding the implementation of the BWM Convention”, “pros and cons, negative and positive approach to adopt the BWM Convention”, “There is a lack of information on ballast water management in Syria”).

5. Do you think that you will use what you have learnt during this Workshop in your work in the future?

Yes (100%)	31	No (0%)	0
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6. Were the modules/presentations well balanced in terms of content of and the flow of the overall programme?

Yes (100%)	31	No (0%)	0
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7. Do you think that the duration of the lectures/presentations was adequate?

About right (77%)	24	Too long (0%)	0	Not long enough (23%)	7
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8 Did you have enough time for questions?

Yes (81%)

25

No (19%)

6

9. Were there any areas where you have liked to have more detail on any aspect?

The main areas quoted are related to **the convention** (3 comments: more details on the convention, more details on the guidelines G7, G8 and G9, and the related regulation), practical aspects of **PSC procedures** (4 comments), **sampling** (7 comments, including 2 comments on how to use the instruments/equipment in practice). Other areas quoted once are risk assessment, the impact of invasive species discharged through ballast water, Turkish experience on BWM, and the problems that Parties to the BWM Convention are facing in the implementation process.

10. In your opinion, are there any other issues or topics which the Workshop should have covered?

The issues/topics mentioned are the following (quoted once each): **impact of invasive species**, explanation of the **guidelines**, economic aspects of the implementation, **regional view** (Barcelona Convention; example of regional enforcements and or/strategies such as the Trilateral Commission/Sub-Commission (Slovenia/Italy/Croatia) on BWM in the Adriatic Sea), **requirements at national level** (what is required by the Convention of each country, preparation of the national regulation), and more generally more **practical examples**.

11. Do you think that it was useful to meet other officials from the Mediterranean region?

Yes (97%)

30

No (3%)

1

12. Which lectures/presentations did you find most interesting?

- Introduction to the BWM Convention – Mr Fredrik Haag (7 comments)
- Inspection for PSC & General Principles - Mr Zafrul Alam (14 comments)
- PSC – BWE - Dr. Baumler (1 comment)
- The regulatory and PSC framework in Croatia – Ms Ivana Marovic (3 comments)
- A practical view on enforcing the BWM Convention – Mr Tonci Tadic (3 comments)
- Introduction to Sampling for CME – Mr Brian Elliot (12 comments)
- GloBallast Country Profile Database (3 comments)
- Risk Assessment (1 comment)
- Ballast Water process (1 comment)
- All presentations (5 comments)

13. Which lectures/presentations did you find least interesting?

- Ballast Water Risk Assessment system in Turkey – Dr. Arzu Olgun (9 comments)
- A practical view on enforcing the BWM Convention – Mr Tonci Tadic (1 comment)
- The regulatory and PSC framework in Croatia – Ms Ivana Marovic (2 comments)
- PSC – BWE - Dr. Baumler (1 comment)

14. Generally speaking, are you satisfied with the Workshop?

Very satisfied (58%)

18

Satisfied (42%)

13

Unsatisfied

0

15. Could you suggest any recommendations for improving the Workshop?

**General comments on the Workshop:** excellent Workshop (3 comments), provide the documents and presentations before the Workshop so that the participant can prepare a list of questions (3 comments), duration of the Workshop too short (2 comments), improve the travel (1 comment, 24 hours to come for the Syrian participant).

**Comments on the content:** provide more views from the industry (approval and testing companies, ship owners/managers - 1 comment), more practical examples (1 comment), highlight on the impact in terms of workload for seafarers ("huge documentation, records and certificates including ISM & ISPC Codes").

**Group discussions:** more time is needed for the questionnaire (1 comment), need for better explanation of the exercise (1 comment), include more exercise as a mean of communication between participants (1 comment).

**Comments on the follow-up of the Workshop:** organise some other similar Workshops (1 comment), increase the training on the Convention (1 comment), need for a Workshop to assess the tools of the Convention and on the technical aspects of the control procedure (1 comment).