



## **Regional OPRC-HNS operational level workshop for the South Asian Seas**

**3-6 May 2010**

**Male  
Republic of Maldives**



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# Executive Summary

**Date:** 3-6 May 2010, Male, republic of Maldives

**Title:** Regional OPRC-HNS operational level workshop for the South Asian Seas

**Organised by:**

- Ministry of Housing, Transport and Environment of the Republic of Maldives
- International Maritime Organization (IMO)
- South Asia Seas (SAS)/South Asia Co-operative Environment Programme (SACEP)

**Number of participants:** 33

**The objectives of the workshop were to:**

1. Train national authorities and industry in the operational and incident management aspects of an HNS spill response;
2. Provide an overview of the applicable International legislation for HNS incidents such as the OPRC-HNS Protocol and the HNS Convention;
3. Provide an overview of the key technical issues to take into consideration when developing a National Contingency Plan and when responding to an HNS incident;
4. Encourage discussions and the sharing of experiences amongst the participants to facilitate the implementation of the OPRC-HNS Protocol and the establishment of cooperation agreements.

**Results of the workshop:**

Delegates from 12 countries participated in this OPRC-HNS operational level workshop. Various technical presentations were used to illustrate the different aspects of preparedness and response to an HNS spill. The presentations focused on the assessment of hazards and behaviour, health and safety issues and response strategies, which are key elements of an efficient response to an HNS incident. Contingency planning and the requirements of the OPRC-HNS Protocol were also discussed. During this workshop, participants had the opportunity to learn from each other and to identify recommendations for the effective implementation of the OPRC-HNS Protocol at a national level and within the region. More specifically, improving senior managers' awareness of the Protocol and the development of a training programme focusing on contingency planning were identified by participants as key actions for the region. The diversity of participants and their participation were important factors towards the success of this workshop.

# 1 Introduction

Within the framework of its Integrated Technical Cooperation Programme, the International Maritime Organization (IMO), with the assistance of the South Asian Seas Programme (SAS)/South Asia Co-operative Environment Programme (SACEP) and the Government of the Republic of Maldives organized a regional operational level workshop on the Protocol on Preparedness, Response and Co-operation to Pollution Incidents by Hazardous and Noxious Substances (OPRC-HNS Protocol 2000). This workshop took place in Male from 3 to 6 May 2010 with representatives from governments and industry of 12 countries within SACEP and the wider South East Asia Region.

Issues related to the implementation of the OPRC-HNS Protocol, particularly the technical challenges in preparing a National Contingency Plan to respond to an HNS incident were discussed. The workshop was also a good opportunity for the countries to exchange information on past experiences and review the status of implementation of the OPRC-HNS Protocol in their respective countries.

## 2 Objectives of the workshop

The overall objective of this workshop was to train national authorities and industry in the operational and incident management aspects of an HNS spill response. Knowledge of these key elements is essential for countries to implement efficiently the OPRC-HNS Protocol and to develop a National Contingency Plan for HNS incidents.

More specifically, the workshop objectives were the following:

- Provide an overview of the applicable International legislation for HNS incidents such as OPRC-HNS Protocol and the HNS Convention;
- Provide an overview of the key technical issues to take into consideration when developing a National contingency plan and when responding to an HNS incident;
- Encourage discussions and the sharing of experiences amongst the participants to facilitate the implementation of the OPRC-HNS Protocol and the establishment of cooperation agreements.

## 3 Programme of the workshop

The programme of this workshop was composed of technical presentations and syndicate groups, where participants worked together and exchanged ideas on specific issues. A table top exercise where participants had to respond efficiently to an HNS incident was also conducted. This programme aimed at promoting discussions and sharing of information between the facilitators and the participants.

Most of the presentations were related to specific technical issues of an HNS spill response. More specifically, the topics presented were the following:

- Overview of HNS spill response and challenges
- International legislation – The OPRC Convention, OPRC-HNS Protocol and HNS Convention
- Transportation of HNS at sea
- Chemical substances, hazards and behaviour assessment
- Health and Safety issues
- Information resources
- HNS response strategies
- Contingency planning for HNS
- Regional contingency planning in the SACEP region
- Media and communication issues
- HNS spill management and case study

The detailed programme of the workshop can be found in **Annex 1**

## **4 Location, Dates, Roles and Participants**

The workshop was organised by the Ministry of Housing, Transport and Environment of the Republic of Maldives with the technical and financial support of IMO and SAS/SACEP. It took place from 3 to 6 May 2010 at the Convention Centre of Male, Republic of Maldives.

The experts in charge of the workshop were:

- Ms. Patricia Charlebois, International Maritime Organization (IMO)
- Ms. Kelly Reynolds, International Tanker Owners Pollution Federation (ITOPF)
- Mr. Stéphane Grenon, Consultant for IMO
- Dr. R. Venkatesan, SAS/SACEP

A total number of 33 delegates representing 12 countries of the SASP region participated to the workshop. Most of the delegates were representing National authorities particularly Ministry of Transport or Ministry of Environment. Industry was also represented by the participation of Maldives Port Ltd and of a local shipping line.

The participants list can be found in **Annex 2**.

## **5 Summary of presentations**

### **5.1 Opening ceremony**

Welcoming remarks were given by the Director General Ministry of Housing, Transport and Environment of the Republic of Maldives, Mr. Abdul Azeez Mohamed, by SAS/SACEP Coordinator, Dr. R. Venkatesan and by IMO's Head of pollution response, Ms. Patricia Charlebois.

The DG Ministry of Housing, Transport and Environment, Mr. Abdul Azeez Mohamed, welcomed the participants to the Republic of Maldives. He mentioned the importance of the protection of the marine environment and its biodiversity. This is particularly important for a country such as the Republic of Maldives where its economy and way of life is highly dependent on the sea. He encouraged participants to enjoy the beauty of the Maldives and wished for a fruitful workshop.

SASP/SACEP Regional Coordinator, Dr. R. Venkatesan, expressed his appreciation to IMO and the Government of the Republic of Maldives for their support in organizing this regional workshop. He mentioned the importance of the OPRC and OPRC-HNS Protocol for countries of the region in order to develop contingency plans for oil and HNS incidents especially in a region with 25 per cent of total world movement of crude oil by sea. Dr. Venkatesan also highlighted the impending signature of a MoU by South Asian countries on Regional Co-operation on Oil and Chemical Spill Contingency Plan and wished for participants to learn as much as possible from each other and from the facilitators.

Ms. Patricia Charlebois, IMO's Head of Pollution Response, expressed her sincere appreciation to the Government of the Republic of Maldives and to SAS/SACEP for their collaboration in the organisation of this important workshop. Ms. Charlebois highlighted the many challenges in responding to an HNS incident especially the potential impacts on human health and on the environment. The importance of preparedness and regional co-operation as enshrined in the OPRC-HNS Protocol was mentioned as a key element of success when dealing with an HNS spill. IMO through its Integrated Technical Co-operation Program aims at strengthening national and regional capacity and it is hoped that this workshop will help the countries of the South Asian Seas to achieve this objective.

### **5.2 Technical presentations**

Below is a summary of the technical presentations that were given during this workshop.

#### **5.2.1 Overview of HNS Spill Response and Challenges**

This presentation provided participants with an overview of the challenges and the steps involved in the response to an HNS spill. The presentation showed that a large number of substances are considered as HNS, in accordance with the definition set out in the OPRC-HNS Protocol. Because of the varying nature of the substances, the response to

an HNS incident can be very challenging for responders at an operational, political, environmental and economical level. These substances can pose a risk to human health, the environment and to various economical activities, when spilled. The presentation also discussed the steps involved in emergency response with a particular emphasis to the assessment phase.

### **5.2.2 International Legislation – The OPRC Convention, OPRC-HNS Protocol and HNS Convention**

The various pieces of International legislation, applicable to HNS were discussed during this presentation. Participants were introduced to MARPOL, the IMDG Code, GESAMP classification, the OPRC-HNS Protocol 2000 and the HNS Convention. The presentation indicated the requirements of these instruments, which aim at providing a framework for the development of national and regional capacity to prepare for and respond to oil/HNS pollution incidents. The requirements to facilitate international co-operation and mutual assistance were also discussed, as well as the status of ratification of these instruments in the region.

### **5.2.3 Transportation of HNS at Sea**

This presentation introduced the ways in which HNS are transported at sea and the types of vessels used. The international conventions and the varying design and construction standards required to minimize the risks to the ship's crew and the environment from the cargo being transported were highlighted. The presentation also looked at how dangerous goods are classified, in order to allow for the rapid identification of hazards and effective remedial actions. Finally, some of the hazards associated with the transportation of HNS that could lead to an incident were examined.

### **5.2.4 Chemical Substances, Hazards and Behaviour Assessment**

This presentation focused on the types of chemical substances and mainly on the assessment of their associated hazards and behaviour. The identification of hazards and behaviour is a critical aspect of an HNS spill response. The main hazards from chemical substances, such as fire, explosion, reactivity, toxicity and radioactivity, were discussed. The use of the International Maritime Dangerous Goods (IMDG) classification system to identify substances and their primary hazard was also examined. The basic behaviours of chemical substances once spilled at sea (float, evaporate, dissolve and sink) were presented as well as the physico-chemical properties that enable responders to evaluate their hazards and behaviour. This presentation stressed that the assessment phase of an HNS response is the most critical in ensuring safety of personnel and in identifying the proper response strategies.

### **5.2.5 Health and Safety Issues**

This presentation introduced some of the key issues regarding health and safety during an HNS response. The various types of Personal Protective Equipment (PPE) were looked at, along with the four different levels of personal protection. The importance for, and the issues associated with establishing work zones were introduced. The presentation finished by looking at the ways in which people and equipment can be decontaminated and how this process should be managed.

### **5.2.6 Information Resources**

Various documents, reference books and software to assist responders in finding critical information on HNS and their related characteristics were presented. Emphasis was put on explaining the content and how to use the North American Emergency Guidebook 2008, shipping documents, MSDS, IMO GESAMP, NIOSH, CAMEO, WISER and ALOHA. These sources of information were used by the participants during a Table Top exercise.

### **5.2.7 HNS Response Strategies**

The first part of this presentation showed the various response strategies that can be used when responding to an HNS incident. The presentation showed that proper response strategies can only be identified after a detailed assessment of hazards and behaviour has been carried out. Furthermore, response strategies are highly dependent on the behaviour of the product(s) involved in the incident. The discussed strategies were preventing entry into the environment, monitoring, modelling and containment and recovery. Operational limits and associated challenges of these strategies were also presented.

The second part of this presentation looked at how wastes generated by an HNS incident can be managed. The issues associated with the termination of a response were briefly discussed, along with some of the termination criteria typically used. Post-operational activities, such as debriefing sessions, writing of incident report and the issues with compiling and presenting claims were also introduced.

### **5.2.8 Contingency Planning for HNS**

This presentation introduced the principal aspects involved with contingency planning for maritime incidents. The steps of contingency planning, such as risk assessment, identification of responsible authority, response strategy, operational procedures and mutual assistance were discussed. The importance for countries to develop a National Contingency Plan prior to the occurrence of a spill and the importance of putting in place a training and exercise program was also highlighted. This presentation showed the overall importance of contingency plans in order to successfully respond to incidents, especially in the context of an HNS incident.

### **5.2.9 Regional Contingency planning in the SACEP Region**

This presentation gave an overview of SAS/SACEP activities particularly with regards to contingency planning. SACEP serves as the Secretariat for the SASP, which was designated as part of UNEP's Regional Seas Programme in 1983. Members of the SASP are Bangladesh, India, Maldives, Pakistan, and Sri Lanka. Over the years SASP, in collaboration with partner organisations, has carried out a wide range of workshops and training mostly for government officials under different project activities. Specifically focussed on coastal and marine environment management, the subjects covered by awareness raising and training have included compliance with and enforcement of IMO



Conventions (OPRC, MARPOL) and the UNEP Global Programme of Action for the Protection of the Marine Environment from Land-based Activities (UNEP-GPA).

Under close guidance from IMO, a Regional Oil and Chemical Spill Contingency Plan and MoU was prepared during meetings in 1999 and 2000. A series of missions undertaken by SACEP to Pakistan, India, Bangladesh and Maldives led to the finalisation of jointly agreed documents in July 2009 and Maldives was the first country to sign this MoU. Other SACEP countries are in the advanced stages of preparations towards signing this MoU.

SACEP has also developed a Guideline document on the status of Conventions and Protocols in the field of marine environment by South Asian Seas countries. This document can be found at **Annex 3**

#### **5.2.10 Media and Communication Issues**

This presentation provided participants with an overview of the importance of communication and media relations during a maritime incident. The relevance of including communication aspects and media relations in contingency plans was discussed and a summary of media relation techniques was also presented. The importance of handling media in an appropriate manner and to provide them with information was highlighted in order to avoid problems with public perception of incident management.

#### **5.2.11 HNS Spill Management and Case Study**

This presentation looked at the complexities of spill response and presented potential ways to organise and structure a response. The presentation introduced the systematic approach to managing an HNS incident and examined the steps involved in each of the four phases of response: assessment, decision-making, implementation and feedback. The presentation concluded by summarising the benefits of using this approach and presented ideas on how to measure the success of a response.

Four case studies were provided in this presentation. The first looked at the strategies implemented in response to the incident involving the chemical tanker IEVOLI SUN. Secondly, the TASMIN SPIRIT oil spill was used to highlight air monitoring issues and public health concerns which can be associated with HNS and oil spills. The third case study, the SAMHO BROTHER, further highlighted some of the issues involved with hazard assessment and response strategies for HNS spills. Finally, the MSC NAPOLI case study demonstrated some of the issues involved with managing an incident involving a stricken container ship.

#### **5.2.12 Site Visit: Port of Male**

Participants had the opportunity to visit the facilities of the Port of Male during a site visit organized by Maldives Ports Ltd. This port handles all container cargo for the Maldives.

Participants learned more about the type and volume of traffic in the port and some of the security and safety aspects of this facility.

### **5.2.13 HNS Response Exercise**

A tabletop exercise was carried out by the participants. The objectives of this exercise were for the participants to assess and implement effective response strategies for an HNS incident. The scenario of the exercise involved a chemical tanker experiencing a fire and a blackout situation near the coast of a fictional town.

Participants were split into five groups and were asked to:

- 1) Identify the socio-economic and environmental sensitivities that could be impacted by the spill;
- 2) Assess the situation, with a particular emphasis on the identification of hazards and the behaviour of the substances on board the vessel; and
- 3) Identify and implement a response strategy for the incident.

The exercise enabled the participants to identify the challenges of responding to an HNS incident, with limited equipment and resources. The debriefing session highlighted the necessity of working as a team with various types of expertise, in order to respond effectively to an HNS incident. The importance of quick access to the shipping documents and the need to know in advance the roles and responsibilities of the various agencies involved in the response was also highlighted.

### **5.3 Group Discussion: Status of Implementation of OPRC-HNS Protocol**

A roundtable discussion was conducted in order to discuss and share information on the level of preparedness and the status of implementation of OPRC/OPRC-HNS in the 12 countries represented at this workshop. Participants were asked to discuss key aspects of preparedness and response to an HNS incident. More specifically, these aspects were:

- 1) National competent authority
- 2) National contingency plan for HNS
- 3) Cooperative arrangements
- 4) Equipment
- 5) Ratification of Conventions

This discussion was very useful in ascertaining the status of implementation of the OPRC Convention and the OPRC-HNS Protocol in the represented countries and to

identify potential areas for collaboration in the region. The discussion showed that although most countries of the region have a designated competent authority, a National Oil Spill Contingency Plan and various cooperation arrangements for oil spill response, these important aspects are lacking when it comes to HNS spill response. However, many of the countries have indicated that ratification of the OPRC-HNS Protocol and the development of a National Contingency Plan for HNS were currently under consideration.

A summary of the information provided by each country can be found at **Annex 4**.

## **6 Recommendations of the Workshop**

During this Regional OPRC-HNS Operational Level Workshop, the participants identified the following recommendations to facilitate the ratification and effective implementation of the OPRC-HNS Protocol and its requirements throughout the region:

1. Raise awareness and promote the importance of the OPRC-HNS Protocol and of its requirements to Ministers and senior level managers of National Competent Authorities in order to promote ratification and implementation. Participants have suggested that seminars be held to develop an information package aimed at informing senior level managers about the benefits of ratifying this important instrument.
2. Develop a training programme to assist countries in producing their National HNS Contingency Plan. Participants believe that technical support is needed to identify the information necessary to effectively implement the requirements of the OPRC-HNS Protocol and to develop a National HNS Contingency Plan. The development of a model contingency plan for HNS was also mentioned as a potentially useful tool to assist national authorities.
3. Encourage the participation of National representatives to the meetings of the OPRC-HNS Technical Working Group. The OPRC-HNS TG aims at facilitating the implementation of the OPRC Convention and OPRC-HNS Protocol by developing technical tools and manuals. It is composed of technical experts from various countries and meets once or twice a year at the IMO headquarter in London. Participation of representatives from the region would raise awareness about the needs of the region and consequently influence the development of adapted technical tools.

## **7 Conclusions**

This workshop benefited from the participation of delegates from 12 countries of the SAS region and beyond, as well as from industry. This varied representation enabled

productive discussions about the various challenges related to HNS spill response. It was also an opportunity for the participants to exchange information on the status of implementation of OPRC-HNS in the region and to learn from each other.

Technical presentations were used to illustrate important aspects of HNS spill response with an emphasis on safety issues for crew members, responders and for the protection of population. A particular emphasis was put on contingency planning issues and the requirements of the OPRC-HNS Protocol. Participants have realised the necessity of developing a contingency plan in order to respond efficiently to a marine incident involving HNS.

Recommendations were also identified by the participants during this workshop. These have underlined the necessity to develop a training programme dealing especially with the key issue of contingency planning for HNS and to promote the importance of ratifying the OPRC-HNS Protocol and its implementation.

This workshop also clearly demonstrated the interest and motivation of all countries in the SAS region to work together and to improve their capacity to deal with a marine HNS spill and to minimize its effects on local population, the environment and their economy.

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## 8.1 Programme

### Day 1: Monday, May 3, 2010

<b>08.30</b>	Arrival of Participants/Registration	
<b>09.00</b>	Opening Ceremony and Welcome Addresses <ul style="list-style-type: none"><li>• IMO</li><li>• SACEP</li><li>• Host country</li></ul>	P. Charlebois
<b>9.30</b>	Course introduction <ul style="list-style-type: none"><li>• Workshop aims and objectives</li><li>• Course timetable and administrative matters</li><li>• Roundtable introductions</li></ul>	S. Grenon
<b>10.30</b>	Coffee break	
<b>11.00</b>	Overview of HNS Spill Response and Challenges	P. Charlebois
<b>11.45</b>	International Legislation – The OPRC Convention, OPRC-HNS Protocol and HNS Convention	P. Charlebois
<b>12.30</b>	Lunch break	
<b>13.30</b>	Transportation of HNS at sea	K. Reynolds
<b>14.30</b>	Chemical substances, hazard and behaviour assessment Video: behaviour	S. Grenon
<b>15.00</b>	Coffee break	
<b>15.30</b>	Cont...Chemical substances, hazard and behaviour assessment Video: behaviour	S. Grenon
<b>16.30</b>	Conclusion of day 1	P. Charlebois
<b>16.45</b>	End of day	

**Day 2: Tuesday May 4, 2010**

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<b>09.00</b>	Review of Previous Day	S. Grenon
<b>9.15</b>	Health & Safety Issues <ul style="list-style-type: none"><li>• PPE</li><li>• Work zones</li><li>• Decontamination</li></ul>	K. Reynolds
<b>10.30</b>	Coffee break	
<b>11.00</b>	Information resources <ul style="list-style-type: none"><li>• Exercise: Finding information</li></ul>	S. Grenon
<b>12.00</b>	Video: Case study 1	
<b>12.30</b>	Lunch break	
<b>13.30</b>	HNS response strategies Video: strategies	S. Grenon and K. Reynolds
<b>14.30</b>	Contingency planning for HNS Video: Working Together	P. Charlebois
<b>15.00</b>	Coffee break	
<b>15.30</b>	Contingency planning for HNS Video: Working Together	P. Charlebois
<b>15.45</b>	Regional contingency planning in the SACEP region	Dr. R. Venkatesan
<b>16.30</b>	Conclusion of day 2	P. Charlebois
<b>16.45</b>	End of day	

**Day 3: Wednesday May 5, 2010**

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<b>09.00</b>	Review of Previous Day	S. Grenon
<b>09.15</b>	Media and communication issues	P. Charlebois
<b>10.30</b>	Coffee break	
<b>11.00</b>	HNS spill management and case study 2	K. Reynolds
<b>12.30</b>	Lunch break	

<b>13.30</b>	Site visit: Port of Male	All
<b>16.45</b>	End of day	

#### Day 4: Thursday May 6, 2010

<b>09.00</b>	Review of Previous Day	S. Grenon
<b>09.15</b>	HNS Response exercise	Facilitators
<b>12.30</b>	Lunch break	
<b>13.30</b>	HNS Response exercise – Debriefing	S. Grenon
<b>15.00</b>	Coffee break	
<b>15.30</b>	Group Discussion: Status of implementation of OPRC-HNS Protocol and recommendations to facilitate implementation in the South Asian Seas	P. Charlebois
<b>16.15</b>	Course evaluation and closing ceremony	
<b>17.00</b>	End of day	

<b>Ms. Patricia Charlebois</b>	The International Maritime Organization (IMO)
<b>Ms. Kelly Reynolds</b>	International Tanker Owners Pollution Federation (ITOPF)
<b>Dr. R. Venkatesan</b>	South Asia Cooperative Environment Programme/South Asia Seas Programme (SACEP/SAS)
<b>Mr. Stéphane Grenon</b>	Consultant to IMO



## 8.2 Participants list

No	Name	Country	Email
1	Commander Mohamed Enamul Haque Bn	Bangladesh	<a href="mailto:haque459@yahoo.co.uk">haque459@yahoo.co.uk</a>
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17	Mr. Ahmed Rasheed	Maldives Ports Limited	
18	Mr. Fathuhullah Ismail	SAARC Coastal Zone Management Centre	<a href="mailto:fismail@sczmc.org">fismail@sczmc.org</a>
19	Dr. Moosa Hussain	Min.of Health and Family	<a href="mailto:hmoosa@hotmail.com">hmoosa@hotmail.com</a>
20	Mr. Mohamed Azheem	Min.of Fisheries and Agriculture	
21	Mr. Hussain Haleem	Maldives Customs Services	
22	Mr. Mohamed Ziyad	Maldives Police Service	
23	Mr. Ibrahim Naeem	Environmental Protection Agency	
24	Mr. Ibrahim Mohamed	Environmental Protection Agency	

25	Ms. Inaya Abdul Raheem	Environmental Protection Agency	<a href="mailto:inaya.abdulraheem@epa.gov.mv">inaya.abdulraheem@epa.gov.mv</a>
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33	Mr. Aminath Shiyama	Transport Authority	<a href="mailto:shiyama@transport.gov.mv">shiyama@transport.gov.mv</a>

**8.3 Guideline document on the status of Conventions and Protocols in the field of marine environment by South Asian Seas countries.**

South Asian Seas Programme Asia Co-operative Environment Programme																
GUIDELINE DOCUMENT ON THE STATUS OF CONVENTIONS AND PROTOCOLS IN THE FIELD OF MARINE ENVIRONMENT BY SOUTH ASIAN SEAS COUNTRIES Bangladesh, India, Maldives, Pakistan, Sri Lanka																
<i>All efforts were made to verify the data. However, data may not be completely current. Relevant Secretariat / country Website should be consulted for most up-to-date status information.</i>																
<i>Data presented is as on 25 August 2009 and shall be updated as and when information is received</i>																
Agmt - Agreement ; Amdt - Amendment ; Prtl - Protocol									Additional information							
Signature Date	Title	Bangladesh	India	Maldives	Pakistan	Sri Lanka	Number countries	Type	Category	Secretariat	Date of Ratification, Accession, Succession.	Bangladesh	India	Maldives	Pakistan	Sri Lanka
16-Oct-45	Constitution Of The Food And Agriculture Organization Of The United Nations					x		Agmt	Fisheries	FAO						

2-Dec-46	<b>International Convention For The Regulation Of Whaling</b>				x			Agmt	Fisheries	FAO						
26-Feb-48	<b>Agreement For The Establishment Of The Indo-Pacific Fisheries Commission</b>	x	x		x	x		Agmt	Fisheries	FAO						
17-May-48	<b>IMO Convention 48</b>	x	x	x	x	x	168	Agmt	Safety	IMO	17-May-58					
12-May-54	<b><i>International Convention For The Prevention Of Pollution Of The Sea By Oil No longer fully operational &amp; superceded later by instruments</i></b>	x	x	x				Agmt	Marine Pollution	IMO						
19-Nov-56	<b>Protocol To The International Convention For The Regulation Of Whaling</b>		x					Prtl	Marine Pollution	IMO						
29-Apr-58	<b>Convention On The High Seas</b>				x			Agmt	Ocean	UNDOALOS						
29-Apr-58	<b>Convention On The Continental Shelf</b>				x			Agmt	Ocean	UNDOALOS						
29-Apr-58	<b>Convention On Fishing And Conservation Of The Living Resources Of The High Seas</b>				x			Agmt	Fisheries	FAO						
29-Apr-58	<b>Optional Protocol Of Signature Concerning The Compulsory Settlement Of Disputes Arising Out Of The United Nations Conference On The Law Of The Sea</b>					x		Prtl	Ocean	UNDOALOS						

1-Dec-59	<b>Antarctic Treaty</b>		x						Agmt	Ocean	UNDOALOS						
10-Jan-60	<b>Statutes Of The Intergovernmental Oceanographic Commission</b>	x	x	x	x	x			Agmt	Ocean	UNESCO IOC						
10-Jan-60	<b>SOLAS 1960 - No longer fully operational &amp; superceded later by instruments</b>								Agmt	Safety	IMO						
10-Jan-60	<b>COLREG Convention 60 International Regulations for Preventing Collisions at Sea - No longer fully operational &amp; superceded later by instruments</b>								Agmt	Safety	IMO						
11-Apr-62	<b>MARPOL Amendments To The International Convention For The Prevention Of Pollution Of The Sea By Oil</b>								Am dt	Marine Pollution	IMO						
4-May-66	<b>LOAD LINES Convention 66 International Convention on Load Lines (LL), 1966</b>	x	x	x	x	x	159		Agmt	Safety	IMO	21/7/68	10/5/78	19/4/68	29/1/68	5/12/68 (Ac)	10/5/74
3-May-67	<b>Convention On The International Hydrographic Organization</b>							x	Agmt	Ocean	UNDOALOS						
21-Oct-69	<b>MARPOL Amendments To The International Convention For The Prevention Of Pollution Of The Sea By Oil</b>								Am dt	Marine Pollution	IMO						

29-Nov-69	<b>International Convention Relating To Intervention On The High Seas In Cases Of Oil Pollution Casualties</b>	x			x				Agmt	<b>Safety</b>	<b>IMO</b>							
29-Nov-69	<b>CLC Convention 69 International Convention On Civil Liability For Oil Pollution Damage</b>		x	x		x		38	Agmt	<b>Safety</b>	<b>IMO</b>		19-Jun-75		21/6/01	16/3/81	21/1/00 (Revised)	
2-Feb-71	<b>Convention On Wetlands Of International Importance Especially As Waterfowl Habitat</b>	x	x		x	x		154	Agmt	<b>Environment</b>	<b>UNEP</b>		21/12/75	29/9/92	2-Jan-82		23/1/76	15/10/90
12-Oct-71	<b>MARPOL Amendments To The International Convention For The Prevention Of Pollution Of The Sea By Oil Concerning The Protection Of The Great Barrier Reef</b>								Amdt	<b>Marine Pollution</b>	<b>IMO</b>							
17/12/1971	<b>Convention relating to Civil Liability in the Field of Maritime Carriage of Nuclear Material (NUCLEAR), 1971</b>							17	Agmt	<b>Civil Liability</b>	<b>International Nuclear Commission</b>		15-Jul-75					
6-Oct-71	<b>STP Agreement 71 Special Trade Passenger Ships Agreement (STP), 1971</b>	x	x			x		17	Amdt	<b>Safety</b>	<b>IMO</b>		1-Feb-74	10/1/78	1/12/76		10/3/82 (Revised)	
18-Dec-71	<b>International Convention On The Establishment Of An International Fund For Compensation For Oil Pollution Damage</b>		x	x		x			Amdt	<b>Civil Liability</b>	<b>IMO</b>				21/6/01	16/3/81 (Ag)	22/1/00 (Revised)	

12-Feb-72	<b>International Convention for Safe Containers (CSC), 1972 as amended</b>		x		x			78	Agmt	<b>Safety</b>	<b>IMO</b>		9-Jun-77			27/1/79		10/4/86 (Ac)	
20/10/1972	<b>COLREG Convention 72 International Regulations for Preventing Collisions at Sea as amended</b>	x	x	x	x	x		153	Agmt	<b>Civil Liability</b>	<b>IMO</b>		15/7/77	10/5/78(A)	30/5/73	14/1/81		14/12/77 (Ac)	4/12/78 (Ac)
23-Nov-72	<b>Convention For The Protection Of The World Cultural And Natural Heritage</b>	x	x		x	x		183	Agmt	<b>Environment</b>	<b>UNEP</b>		17/12/75						
29-Dec-72	<b>Convention On The Prevention Of Marine Pollution By Dumping Of Wastes And Other Matter</b>				x			85	Agmt	<b>Marine Pollution</b>	<b>IMO</b>		30/8/1975					3-Sep-95	
3-Mar-73	<b>Convention On International Trade In Endangered Species Of Wild Fauna And Flora</b>	x	x		x	x		175	Agmt	<b>Marine Biodiversity</b>	<b>UNEP CITES</b>		7-Jan-75	18/2/1982 (Rat)	18/10/1975			19/7/1976 (Ac)	2/8/1979 (A)
2-Nov-73	<b>Protocol Relating To Intervention On The High Seas In Cases Of Pollution By Substances Other Than Oil</b>								Prtl	<b>Marine Pollution</b>	<b>IMO</b>								
2-Nov-73	<b>International Convention For The Prevention Of Pollution From Ships as amended to MARPOL Protocol 1978</b>								Agmt	<b>Marine Pollution</b>	<b>IMO</b>								

2-Nov-73	<b>Protocol I, Provisions Concerning Reports On Incidents Involving Harmful Substances To The International Convention For The Prevention Of Pollution From Ships</b>									Prtl	<b>Marine Pollution</b>	<b>IMO</b>						
2-Nov-73	<b>Protocol II, Arbitration To The International Convention For The Prevention Of Pollution From Ships</b>									Prtl	<b>Marine Pollution</b>	<b>IMO</b>						
11-Nov-73	<b>STP Protocol 73 Protocol on Space Requirements for Special Trade Passenger Ships, 1973</b>	x	x			x		16		Prtl	<b>Safety</b>	<b>IMO</b>	6-Feb-77	10/1/78				10/3/82 (Ac)
1-Nov-74	<b><i>SOLAS Convention - International convention for the safety of life at Sea - No longer fully operational &amp; superceded later by instruments</i></b>	x	x	x	x	x		159		Agmt	<b>Safety</b>	<b>IMO</b>	25/5/80	6/11/81 (Ac)	16/6/76 (Ac)	14/1/81 (Ac)	10/4/85 (Ac)	30/8/83 (Ac)
11-Nov-74	<b>Athens Convention relating to the Carriage of Passengers and their Luggage by Sea (PAL), 1974</b>							32		Agmt	<b>Safety</b>	<b>IMO</b>		28-Ant-87				
9-Mar-76	<b>INMARSAT Convention 76 Convention on the International Maritime Satellite Organization (INMARSAT), 1976</b>	x	x		x	x		93		Agmt	<b>Safety</b>	<b>IMO</b>	16/7/79	17/9/93 (Ac)	6/6/78 (Rat)		6/2/85 (Ac)	15/12/81
9-Mar-76	<b>INMARSAT OA 76 - Operating Agreement on international mobile satellite organization</b>	x	x		x	x		89		Amdt	<b>Safety</b>	<b>IMO</b>						



11-Nov-76	<b>LLMC Convention 76 Convention on Limitation of Liability for Maritime Claims (LLMC), 1976</b>		x						52	Agmt	Civil Liability	IMO	1-Dec-86					
19-Nov-76	<b>Protocol To The International Convention On Civil Liability For Oil Pollution Damage</b>		x	x					53	Prtl	Civil Liability	IMO	8-Apr-81			1/5/87 (Ac)	20/8/02 (Ac)	
19-Nov-76	<b>Protocol To Amend The International Convention On The Establishment Of An International Fund For Compensation For Oil Pollution Damage</b>		x							Prtl	Civil Liability	IMO						
11-Nov-77	<b>The Torremolinos International Convention for the Safety of Fishing Vessels (SFV), 1977</b>									Agmt	Fisheries	FAO						
17-Feb-78	<b>Protocol To The International Convention for the Prevention of Pollution From Ships</b>		x		x					Prtl	Safety	IMO						
17-Feb-78	<b>Modifications And Additions To The Annexes Of The International Convention For The Prevention Of Pollution From Ships</b>									Am dt	Marine Pollution	IMO						
7-Feb-78	<b>MARPOL 73 / 78 (Annex I) International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto (MARPOL 73/78)</b>	x	x	x	x	x		149		Agmt	Marine Pollution	IMO	10-Feb-83	18/12/02(Ac)	24/9/1986(Ac)	20/5/2005(Ac)	22/11/1994(Ac)	24/6/1997(Ac)

7-Feb-78	<b>MARPOL 73 / 78 (Annex II) International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto (MARPOL 73/78)</b>	x	x	x	x	x	149	Am dt	<b>Marine Pollution</b>	<b>IMO</b>	4-Jun-87	18/12/02(AC)	24/9/1986(AC)	20/5/2005(AC)	22/1/1994(AC)	24/6/1997(AC)
7-Feb-78	<b>MARPOL 73 / 78 (Annex III) Optional International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto (MARPOL 73/78)</b>	x			x	x	132	Am dt	<b>Marine Pollution</b>	<b>IMO</b>	7-Jan-92	18/12/02(AC)			22/1/1994(AC)	24/6/1997(AC)
7-Feb-78	<b>MARPOL 73 / 78 (Annex IV) Optional International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto (MARPOL 73/78)</b>	x			x	x	123	Am dt	<b>Marine Pollution</b>	<b>IMO</b>	27/9/2003	18/12/02(AC)			22/1/1994(AC)	24/6/1997(AC)
7-Feb-78	<b>MARPOL 73 / 78 (Annex V) Optional International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto (MARPOL 73/78)</b>	x		x	x	x	138	Am dt	<b>Marine Pollution</b>	<b>IMO</b>	31/12/1988	18/12/02(AC)		20/5/2005(AC)	22/1/1994(AC)	24/6/1997(AC)
7-Feb-78	<b>MARPOL 73 / 78 (Annex VI) Optional International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto (MARPOL 73/78)</b>	x					56	Am dt	<b>Marine Pollution</b>	<b>IMO</b>	19/5/2005	18/12/02(AC)				

7-Jul-78	<b>STCW Convention 78 International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW), 1978</b>	x	x	x	x	x	153	Agmt	<b>Safety</b>	<b>IMO</b>	28/4/84	6/11/81 (Ac)	16/11/84 (Ac)	22/1/87 (Ac)	10/4/85 (Ac)	22/1/87 (Ac)
12-Oct-78	<b>London Convention Amendments To The Convention On The Prevention Of Marine Pollution By Dumping Of Wastes And Other Matter Concerning Settlement Of Disputes</b>							Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
17/2/1978	<b>SOLAS Protocol 78 - SOLAS Convention - Protocol to the International convention for the safety of life at Sea as amended</b>		x		x		114	Prtl	<b>Safety</b>	<b>IMO</b>	5-Jan-81	3/4/1986			10/4/85 (Ac)	
27-Apr-79	<b>SAR Convention 79 International Convention on Maritime Search and Rescue (SAR), 1979</b>		x		x		95	Agmt	<b>Safety</b>	<b>IMO</b>	22/6/1985	17/4/2001			11/11/85 (Ac)	
22-Jun-79	<b>Bonn Amendment To The Convention On International Trade In Endangered Species Of Wild Fauna And Flora</b>		x		x			Am dt	<b>Marine Biodiversity</b>	<b>UNEP</b>						
23-Jun-79	<b>Convention On The Conservation Of Migratory Species Of Wild Animals</b>	x	x		x	x	111	Agmt	<b>Marine Biodiversity</b>	<b>UNEP</b>	11-Jan-83	1/12/2005 (Rat)	1/11/83 (Rat)		1/12/87 (Rat)	1/9/90 (Rat)

20-May-80	Convention On The Conservation Of Antarctic Marine Living Resources		x						Agmt	Marine Biodiversity	UNDOALOS						
24-Sep-80	London Convention Amendment Regarding The List Of Substances In Annexes I And II To The Convention On The Prevention Of Marine Pollution By Dumping Of Wastes And Other Matter								Am dt	Marine Pollution	IMO						
25-Feb-81	Articles Of Association Of The South Asia Cooperative Environment Programme	x	x	x	x	x			Agmt	Environment	Regional						
3-Dec-82	Protocol To Amend The Convention On Wetlands Of International Importance Especially As Waterfowl Habitat	x	x		x				Prtl	Marine Biodiversity	UNEP						
10-Dec-82	United Nations Convention On The Law Of The Sea	x	x	x	x	x	159		Agmt	Ocean	UNDOALOS	12-Oct-82	27/7/01	29/6/95	7/9/00	26/2/97 (Ra)	19/7/94 (Pa)
30-Apr-83	Gaborone Amendment To The Convention On International Trade In Endangered Species Of Wild Fauna And Flora								Am dt	Marine Biodiversity	UNEP						
25-May-84	IOPC Funds Protocol To Amend The International Convention On Civil Liability For Oil Pollution Damage								Prtl	Civil Liability	IMO						

7-Sep-84	MARPOL Amendments To Annex I Of The International Convention For The Prevention Of Pollution From Ships									Am dt	Marine Pollution	IMO						
17-Dec-84	Agreement On The Protection Of Confidentiality Of Data Related To Deep Seabed Areas For Which Application Of Authorisation Has Been Made									Ag mt	Ocean	UNDOALOS						
22-Mar-85	Vienna Convention - Convention For The Protection Of The Ozone Layer	x	x	x	x	x		191		Ag mt	Environm ent	UNEP	22/9/88	2/9/90 (Ac)	18/3/91 (Ac)	26/4/88 (Ac)	18/12/92 (Ac)	18/12/92 (Ac)
12-Sep-85	INMARSAT Amendments 85							x	30	Am dt	Safety	IMO	13/10/89					10/6/86 (Ac)
26-Oct-85	Amendments To Appendices I And II Of The Convention On The Conservation Of Migratory Species Of Wild Animals		x			x				Am dt	Marine Biodivers ity	UNEP						
5-Dec-85	MARPOL Amendments To Annex II Of The International Convention For The Prevention Of Pollution From Ships									Am dt	Marine Pollution	IMO						

5-Dec-85	Amendments To Protocol 1 On Incident Reporting To The International Convention For The Prevention Of Pollution From Ships								Am dt	Marine Pollution	IMO							
26-May-87	Amendments Of The Convention On Wetlands Of International Importance Especially As Waterfowl Habitat	x			x				Am dt	Marine Biodivers ity	UNEP							
16-Sep-87	Montreal Protocol On Substances That Deplete The Ozone Layer	x	x	x	x	x	191		Prtl	Environm ent	UNEP	1-Jan-89	2/8/90	19/6/92	16/5/89	18/12/92 (Ac)	15/12/89 (Ac)	
8-Jan-88	Agreement On The Network Of Aquaculture Centres In Asia And The Pacific	x	x		x	x			Ag mt	Fisheries	Regional							
14-Oct-88	Amendments To Appendix I and II Of The Convention On The Conservation Of Migratory Species Of Wild Animals		x		x				Am dt	Marine Biodivers ity	UNEP							
11-Nov-88	SOLAS Protocol 88 Protocol to the International convention for the safety of life at Sea	x	x	x	x		93		Prtl	Safety	IMO	2-Mar-00	18/12/02	22/8/00 (Ac)	20/5/05 (Ac)	6/12/01 (Ac)		
11-Nov-88	LOAD LINES Protocol 88 Protocol to the International Convention on Load Lines as amended	x	x		x		90		Prtl	Safety	IMO	2-Mar-00	18/12/02	10/8/00 (Ac)		25/4/02 (Ac)		
10-Mar-88	SUA Convention 88 Convention for the Suppression of Unlawful Acts Against the Safety of Maritime Navigation (SUA), 1988	x	x		x	x	153		Ag mt	Safety	IMO	3-Jan-92	9/6/05(Ac)	15/10/99		20/9/00 (Ac)	4/9/00 (Ac)	

19-Jan-89	<b>INMARSAT Amendments 89</b>		x						36	Am dt	<b>Safety</b>	<b>IMO</b>	26/6/97		10/9/93			
17-Mar-89	<b>MARPOL Amendments To Annex II Of The International Convention For The Prevention Of Pollution From Ships</b>									Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
17-Mar-89	<b>MARPOL Amendments To IBC Code Of The International Convention For The Prevention Of Pollution From Ships</b>									Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
17-Mar-89	<b>MARPOL Amendments To BCH Code Of The International Convention For The Prevention Of Pollution From Ships</b>									Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
22-Mar-89	<b>Basel Convention - Convention On The Control Of Transboundary Movements Of Hazardous Wastes And Their Disposal</b>	x	x	x	x	x			172	Ag mt	<b>Marine Pollution</b>	<b>UNEP</b>	5-May-92	1/4/93 (Ac)	15/3/90	24/4/92 (Ac)	26/7/94 (Ac)	28/8/92 (Ac)
28-Apr-89	<b>International Convention On Salvage</b>		x						57	Ag mt	<b>Safety</b>	<b>IMO</b>						
3-Nov-89	<b>London Convention Amendment Regarding Permits To Annex III To The Convention On The Prevention Of Marine Pollution By Dumping Of Wastes And Other Matter</b>									Am dt	<b>Marine Pollution</b>	<b>IMO</b>						

16-Mar-90	<b>MARPOL Amendments To Annexes I And II Regarding Harmonized System Of Survey And Certificates To The International Convention For The Prevention Of Pollution From Ships</b>									Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
29-Jun-90	<b>Amendment To The Montreal Protocol On Substances That Deplete The Ozone Layer</b>	x	x	x	x	x	185			Am dt	<b>Environm ent</b>	<b>UNEP</b>	8-Oct-92	18/3/94	19/6/92 (Ac)	31/7/91	18/12/92 (Ac)	16/5/93 (Ac)
7-Sep-90	<b>Agreement On The Organization For Indian Ocean Marine Affairs Cooperation</b>		x		x					Ag mt	<b>Safety</b>	<b>Regional</b>						
16-Nov-90	<b>MARPOL Amendments To Annexes I And V Regarding Antarctica As Special Area Under Annexes I And V To The International Convention For The Prevention Of Pollution From Ships</b>									Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
30-Nov-90	<b>International Convention On Oil Pollution Preparedness, Response And Cooperation</b>	x	x		x					Ag mt	<b>Marine Pollution</b>	<b>IMO</b>						
13-Sep-91	<b>Amendments To Appendices I And II Of The Convention On The Conservation Of Migratory Species Of Wild Animals</b>		x		x					Am dt	<b>Marine Biodivers ity</b>	<b>UNEP</b>						



4-Oct-91	<b>Protocol On Environmental Protection To The Antarctic Treaty</b>		x							Prtl	Ocean	UNDOALOS						
11-Nov-91	<b>IMO Amendments 91</b>	x	x	x	x					Am dt	Safety	IMO						
1-Mar-92	<b>Protocol for Support of Unlawful Acts against Safety of Fixed Platforms located on the Continental Shelf</b>	x	x		x		135			Ag mt	Safety	IMO			9/6/05 (Ac)	15/10/99 (Ac)		20/9/00 (AC)
6-Mar-92	<b>Amendments To Annex I Of The International Convention For The Prevention Of Pollution From Ships</b>									Am dt	Marine Pollution	IMO						
9-May-92	<b>United Nations Framework Convention On Climate Change</b>	x	x	x	x	x	192			Ag mt	Environm ent	UNEP	21/3/94	15/4/94	1/11/93	9/11/92	1/6/94	(Rat)
5-Jun-92	<b>Convention On Biological Diversity</b>	x	x	x	x	x	190			Ag mt	Envrionm ent	UNEP	19/12/93	3/5/94	18/2/94	9/11/92	26/7/94	(Rat)
30-Oct-92	<b>Amendments To The IBC Code Of The International Convention For The Prevention Of Pollution From Ships</b>									Am dt	Marine Pollution	IMO						
30-Oct-92	<b>Amendments To The BCH Code Of The International Convention For The Prevention Of Pollution From Ships</b>									Am dt	Marine Pollution	IMO						

30-Oct-92	Amendments To Annex II Of The International Convention For The Prevention Of Pollution From Ships (Designating Antarctica as a Special Area)								Am dt	Marine Pollution	IMO							
30-Oct-92	Amendments To Annex III To The International Convention For The Prevention Of Pollution From Ships								Am dt	Marine Pollution	IMO							
25-Nov-92	Copenhagen Amendment - Amendment To The Montreal Protocol On Substances That Deplete The Ozone Layer	x	x	x	x	x	176		Am dt	Environm ent	UNEP	14/6/04	27/11/00 (Ad)	3/3/03 (Ac)	27/9/01 (Rat)	17/2/95 (Rat)	7/7/97 (Ac)	
27-Nov-92	Protocol To Amend The International Convention On Civil Liability For Oil Pollution Damage		x	x	x	x	121		Prtl	Marine Pollution	IMO	30-May-96	15/11/99	20/5/05	2/3/05 (Ac)	22/01/99		
27-Nov-92	Protocol To Amend The International Convention On The Establishment Of An International Fund For Compensation For Oil Pollution Damage		x	x		x	104		Prtl	Pollution	IMO	30-May-96	21/6/00 (Ac)	20/5/05 (Ac)		22/1/99	(Ac)	
11-Dec-92	Amendment to the Agreement On The Network Of Aquaculture Centres In Asia And The Pacific	x	x		x				Am dt	Fisheries	FAO							
11-Nov-93	IMO Amendments 93	x	x		x	x			Am dt	Marine Pollution	IMO							

12-Nov-93	<b>Amendment Regarding Annexes I And II To The Convention On The Prevention Of Marine Pollution By Dumping Of Wastes And Other Matter</b>				x				Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
25-Nov-93	<b>Agreement For The Establishment Of The Indian Ocean Tuna Commission</b>		x		x	x			Ag mt	<b>Fisheries</b>	<b>Regional</b>						
13-May-94	<b>Instrument For The Establishment Of The Restructured Global Environment Facility</b>					x			Am dt	<b>Environm ent</b>	<b>UNEP</b>						
11-Jun-94	<b>Amendments To Appendices I And II Of The Convention On The Conservation Of Migratory Species Of Wild Animals</b>		x		x				Am dt	<b>Marine Biodivers ity</b>	<b>UNEP</b>						
28-Jul-94	<b>Agreement Relating To The Implementation Of Part XI Of The United Nations Convention On The Law Of The Sea</b>	x							Ag mt	<b>Ocean</b>	<b>UNDOALO S</b>	16/11/94					
12-Sep-94	<b>INMARSAT Amendments 94</b>		x						Am dt	<b>Safety</b>	<b>IMO</b>	not yet in force	14/5/99				
13-Nov-94	<b>MARPOL - Amendments To Annex III Regarding Implementation To The International Convention For The Prevention Of Pollution From Ships</b>								Am dt	<b>Marine Pollution</b>	<b>IMO</b>						

13-Nov-94	<b>MARPOL - Amendments To Annex V Regarding Implementation To The International Convention For The Prevention Of Pollution From Ships</b>								Am dt	<b>Marine Pollution</b>	<b>IMO</b>							
13-Nov-94	<b>MARPOL - Amendments To Annexes I And II Regarding Implementation To The International Convention For The Prevention Of Pollution From Ships</b>								Am dt	<b>Marine Pollution</b>	<b>IMO</b>							
24-Mar-95	<b>South Asian Seas programme - Final act of meeting of plenipotentiaries</b>	x	x	x	X	X	5	Ag mt	<b>Environm ent</b>	<b>Regional</b>		15/12/1996	15/12/1996	24/3/1995	24/3/1995	24/3/1995	24/3/1995	24/3/1995
7-Jul-95	<b>International Convention on Standards of Training, Certification and Watchkeeping for Fishing Vessel Personnel (STCW-F), 1995</b>						13	Ag mt	<b>Safety</b>	<b>IMO</b>		not yet in force						
4-Aug-95	<b>Agreement For The Implementation Of The Law Of The Sea Convention Relating To The Conservation And Management Of Straddling Fish Stocks And Highly Migratory Fish Stocks</b>	x		x	x			Ag mt	<b>Ocean</b>	<b>UNDOALOS</b>								
22-Sep-95	<b>Basel Convention - Amendment To The Convention On The Control Of Transboundary Movements Of Hazardous Wastes And Their Disposal</b>					x	63	Am dt	<b>Pollution</b>	<b>UNEP</b>								29/1/99

10-Jul-96	<b>Amendments To Protocol I Of The International Convention For The Prevention Of Pollution From Ships</b>									Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
10-Jul-96	<b>Amendments To The IBC Code Of The International Convention For The Prevention Of Pollution From Ships</b>									Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
10-Jul-96	<b>Amendments To The BCH Code Of The International Convention For The Prevention Of Pollution From Ships</b>									Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
10-Jul-96	<b>Amendments to the Annex (Revision of the List of Substances to be Annexed) Protocol Relating To Intervention On The High Seas In Cases Of Pollution By Substances Other Than Oil</b>									Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
7-Nov-96	<b>Protocol To The Convention On The Prevention Of Marine Pollution By Dumping Of Wastes And Other Matter</b>									Prtl	<b>Marine Pollution</b>	<b>IMO</b>						
11-Nov-96	<b>Convention on Liability and Compensation for Damage in Connection with the Carriage of Hazardous and Noxious Substances by Sea (HNS), 1996</b>									Ag mt	<b>Civil Liability</b>	<b>IMO</b>						

16-Apr-97	Amendments To Appendices I And II Of The Convention On The Conservation Of Migratory Species Of Wild Animals		x		x				Am dt	Envirom ent	UNEP							
17-Sep-97	Montrel Amendment - Amendment To The Montreal Protocol On Substances That Deplete The Ozone Layer	x	x	x	x	x	150		Am dt	Environm ent	UNEP	11-Oct-99	29/7/01 (Ac)	3/3/03 (Ac)	27/9/01 (Rat)	2/9/05 (Rat)	20/8/99 (Ac)	
26/9/1997	MARPOL Protocol 1997	x					47		Am dt	Marine Pollution	IMO	19/5/2005	19/5/2005					
11-Dec-97	Kyoto Protocol To The United Nations Framework Convention On Climate Change	x	x	x	x	x	183		Prtl	Environm ent	UNEP	16/2/05	22/10/01	26/8/02 (Ac)	30/12/98	11/1/05 (Ac)	3/9/02 (Ac)	
4-Feb-98	Amendments 1998 to the annex SAR Convention 79 International Convention on Maritime Search and Rescue (SAR), 1979		x		x		91		Am dt	Safety	IMO	17/5/2001		17/4/2001		11/4/2001 (Ac)		
24-Apr-98	INMARSAT Amendments 98		x		x	x	56		Am dt	Safety	IMO	31/7/2001		5/1/2000		15/9/2000 (Ac)	4/2/2000 (Ac)	
10-Sep-98	Convention On The Prior Informed Consent Procedure For Certain Hazardous Chemicals And Pesticides In International Trade				x				Ag mt	Marine Pollution	IMO							

1-Jul-99	Amendments To Annex I And II To The International Convention For The Prevention Of Pollution From Ships								Am dt	Marine Pollution	IMO						
1-Jul-99	Amendments To BCH Code Of The International Convention For The Prevention Of Pollution From Ships								Am dt	Marine Pollution	IMO						
1-Jul-99	Amendments To IBC Code Of The International Convention For The Prevention Of Pollution From Ships								Am dt	Marine Pollution	IMO						
11-Nov-99	Basel Protocol on Liability and Compensation for Damage Resulting from Transboundary Movements of Hazardous Wastes, 1999						7		Am dt	Marine Pollution	UNEP						
16-Nov-99	Amendments To Appendices I And II Of The Convention On The Conservation Of Migratory Species Of Wild Animals		x		x				Am dt	Marine Biodivers ity	UNEP						
29-Jan-00	Cartagena Protocol On Biosafety To The Convention On Biological Diversity	x	x	x	x	x	138		Prtl	Environm ent	UNEP	12-Nov-03	24/5/00	17/1/03	11/9/03	31/5/09 (Rat)	26/7/94 (Re)
13-Mar-00	Amendments To The Appendix To Annex III To The International Convention For The Prevention Of Pollution From Ships								Am dt	Marine Pollution	IMO						

14-Jul-00	<b>Memorandum Of Understanding On The Conservation And Management Of Marine Turtles And Their Habitats Of The Indian Ocean And Southeast Asia</b>							x		Am dt	<b>Marine Biodiversity</b>	<b>Regional</b>						
5-Oct-00	<b>Amendments To Annex V To The International Convention For The Prevention Of Pollution From Ships</b>									Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
5-Oct-00	<b>Amendments To BCH Code Of The International Convention For The Prevention Of Pollution From Ships</b>									Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
5-Oct-00	<b>Amendments To IBC Code Of The International Convention For The Prevention Of Pollution From Ships</b>									Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
18-Oct-00	<b>Amendments Of The Limitation Amounts In The 1992 Protocol To Amend The International Convention On Civil Liability For Oil Pollution Damage</b>									Am dt	<b>Marine Pollution</b>	<b>IOPC Funds Secretariat</b>						
11-Nov-00	<b>Protocol on Preparedness, Response and Co-operation to pollution Incidents by Hazardous and Noxious Substances, 2000 (HNS Protocol)</b>									Ag mt	<b>Safety</b>	<b>IMO</b>	not yet in force					
23-Mar-01	<b>International Convention On Civil Liability For Bunker Oil Pollution Damage</b>									Ag mt	<b>Civil Liability</b>	<b>IMO</b>						



27-Apr-01	<b>Amendments To Annex I (Double Hulls) To The International Convention For The Prevention Of Pollution From Ships</b>								Am dt	<b>Marine Pollution</b>	<b>IMO</b>							
22-May-01	<b>Stockholm Convention - Convention On Persistent Organic Pollutants</b>	x	x	x	x	x	163	Ag mt	<b>Marine Pollution</b>	<b>UNEP</b>		17/5/04	12/3/07	13/1/06	17/10/06	17/4/08 (Rat)	22/12/05	
5-Oct-01	<b>International Convention On The Control Of Harmful Anti-Fouling Systems On Ships</b>						26	Ag mt	<b>Marine Pollution</b>	<b>IMO</b>		17/9/2008						
24-Sep-02	<b>Amendments To Appendices I And II Of The Convention On The Conservation Of Migratory Species Of Wild Animals</b>		x		x			Am dt	<b>Marine Biodivers ity</b>	<b>UNEP</b>								
11-Oct-02	<b>Amendment To The International Convention Relating To Intervention On The High Seas In Cases Of Oil Pollution Casualties</b>							Am dt	<b>Marine Pollution</b>	<b>IMO</b>								
26-Apr-03	<b>Bay of Bengal Programme</b>	x	x	x		X	4	Ag mt	<b>Fisheries</b>	<b>Regional</b>		21-May-03	26-Apr-03	26-Apr-03	21-May-03			26-Apr-03
16-May-03	<b>Protocol To Amend The International Convention On The Establishment Of An International Fund For Compensation For Oil Pollution Damage</b>		x					Prtl	<b>Civil Liability</b>	<b>IMO</b>								

4-Dec-03	Amendments To Regulation 13g, Addition Of New Regulation 13h And Consequential Amendments To The Supplement To The Iopp Certificate Of Annex I To The Annex Of The Protocol Of 1978 Relating To The International Convention For The Prevention Of Pollution From Ships								Am dt	Marine Pollution	IMO						
1-Apr-04	Amendments To the Appendix to Annex V To The International Convention For The Prevention Of Pollution From Ships								Am dt	Marine Pollution	IMO						
1-Apr-04	Amendments To Annex IV To The International Convention For The Prevention Of Pollution From Ships								Am dt	Marine Pollution	IMO						
24-Sep-04	Addition of Annex IV to the Convention On The Prior Informed Consent Procedure For Certain Hazardous Chemicals And Pesticides In International Trade				x				Am dt	Marine Pollution	UNEP						
24-Sep-04	Amendments to Annex III of the Convention On The Prior Informed Consent Procedure For Certain Hazardous Chemicals And Pesticides In International Trade				x				Am dt	Marine Pollution	UNEP						

15-Oct-04	Amendments Incorporated As Part of Revised Annex I (including Designation of Oman as a Special Area) To The International Convention For The Prevention Of Pollution From Ships							Am dt	Marine Pollution	IMO							
15-Oct-04	Amendments Incorporated As Part of Revised Annex II To The International Convention For The Prevention Of Pollution From Ships							Am dt	Marine Pollution	IMO							
15-Oct-04	Amendments to the IBC Code To The International Convention For The Prevention Of Pollution From Ships							Am dt	Marine Pollution	IMO							
11-Nov-04	BALLASTWATER 2004 International Convention for the Control and Management of Ships' Ballast Water and Sediments, 2004			x			18	Ag mt	Safety	IMO	not yet in force				13/10/2005		
22-Jul-05	MARPOL Amendments To The Annex VI Of The Protocol Of 1997 To Amend The International Convention For The Prevention Of Pollution From Ships, 1973, As Modified By The Protocol Of 1978 Relating Thereto							Am dt	Marine Pollution	IMO							
25-Nov-05	Amendments To Appendices I And II Of The Convention On The Conservation Of Migratory Species Of Wild Animals		x		x			Am dt	Marine Biodivers ity	UNEP							

24-Mar-06	<b>Amendments Adding Regulation 13 To Annex IV To The International Convention For The Prevention Of Pollution From Ships</b>								Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
24-Mar-06	<b>MARPOL Amendments to the BCH Code To The International Convention For The Prevention Of Pollution From Ships</b>								Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
24-Mar-06	<b>MARPOL Amendments To Annex I To The International Convention For The Prevention Of Pollution From Ships</b>								Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
13-Oct-06	<b>MARPOL Amendments Incorporated As Part of Revised Annex III To The International Convention For The Prevention Of Pollution From Ships</b>								Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
2-Nov-06	<b>Amendments to the Protocol To The Convention On The Prevention Of Marine Pollution By Dumping Of Wastes And Other Matter (Regulating Carbon Sequestration in Sub-Seabed Geological Formations)</b>								Am dt	<b>Marine Pollution</b>	<b>IMO</b>						
17-Nov-06	<b>Amendment to Annex B to the Protocol To The United Nations Framework Convention On Climate Change</b>			x					Am dt	<b>Environm ent</b>	<b>UNEP</b>						

18-May-07	<b>International Convention on the Removal of Wrecks Nairobi convention</b>							Ag mt	<b>Marine Pollution</b>	<b>IMO</b>	not yet in force				
13-Jul-07	<b>Amendments To Annex I &amp; IV of the Protocol of 1978 Relating to The International Convention For The Prevention Of Pollution From Ships (Reception facilities outside Special Areas)</b>							Am dt	<b>Marine Pollution</b>	<b>IMO</b>					
21-Sep-07	<b>Beijing Amendment- Adjustments to Annex C of The Montreal Protocol On Substances That Deplete The Ozone Layer</b>	x	x	x	X	123		Am dt	<b>Environm ent</b>	<b>UNEP</b>	25/2/02	3/3/2003	3/9/02 (Ac)	2/9/05 (Rat)	27/11/02 (Ac)

#### 8.4 Summary of group discussion on status of implementation of OPRC-HNS Protocol in the South Asian Seas

Country	Preparedness aspects of OPRC-HNS Protocol				
	National Competent Authority	National Contingency Plan	Cooperative Arrangements	Equipment	Ratification of IMO Conventions
Bangladesh	Ministry of Shipping	Oil: Yes HNS: No	No agreements in place	Oil spill response equipment available	OPRC 1990
Democratic Republic of Korea	Maritime Administration	Oil: Yes HNS: No	NOWAP Agreement	Oil spill response equipment available	OPRC 1990 Bunkers 2001
India	Ministry of Shipping	Oil: Yes HNS: Under consideration	Regional agreements under UN Regional Seas	Oil spill response equipment available	OPRC 1990 CLC 1992 Fund 1992
Indonesia	Ministry of Transportation	Oil: Yes HNS: Same as oil	Bi lateral agreement with Philippines, Malaysia and Singapore	Oil spill response equipment available Some specific	CLC 92

				equipment for HNS	
<b>Islamic Republic of Iran</b>	<b>Ports &amp; Maritime Administration</b>	<b>Oil: Yes HNS: Under development</b>	<b>Regional Plan for the Persian Gulf  Plan under development for the Caspian Sea</b>	<b>Oil spill response equipment available</b>	<b>OPRC 1990 CLC 92 Fund 92</b>
<b>Malaysia</b>	<b>Department of Environment</b>	<b>Oil: Yes HNS: No</b>	<b>ASEAN Network  Bi lateral agreement with Indonesia and Singapore</b>	<b>Oil spill response equipment available</b>	<b>OPRC 1990 CLC 92 Fund 92 Bunker 2001</b>
<b>Republic of Maldives</b>	<b>Ministry of Housing, Transport and Environment</b>	<b>Disaster Management plan will cover oil and HNS spills</b>	<b>Bi lateral agreements with India, Sri Lanka and Pakistan</b>	<b>Oil spill response equipment available</b>	<b>CLC 92 Fund 92</b>
<b>Myanmar</b>	<b>Ministry of Transport</b>	<b>Oil: Awaiting approval HNS: No</b>	<b>No agreements in place</b>	<b>Oil spill response equipment available</b>	<b>No</b>
<b>Pakistan</b>	<b>Maritime Security Agency (MSA)</b>	<b>Oil: Yes HNS: Yes</b>	<b>Not known</b>	<b>Oil spill response equipment available</b>	<b>OPRC 1990 CLC 92</b>

				Some specific equipment for HNS	
Philippines	Department of Transport	Oil: Yes HNS: No	ASEAN Network	Oil spill response equipment available	CLC 92 Fund 92
Sri Lanka	Environmental protection Agency	Oil: Yes HNS: Under development	No agreements in place	Oil spill response equipment available	CLC 92 Fund 92
Thailand	Marine Department	Oil: Yes HNS: Under development	Gulf of Thailand Plan ASEAN Network	Oil spill response equipment available	OPRC 1990
Vietnam	Ministry of Environment	Oil: Yes HNS: No	ASEAN Network	Oil spill response equipment available	CLC 92



## 8.5 Photo of the workshop



