

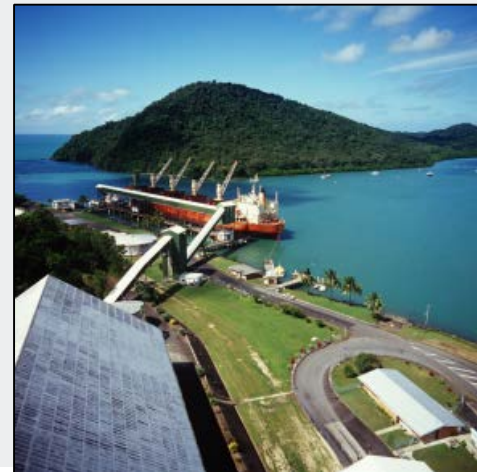
# Shipping: The Lifeblood of World Trade

An introduction to shipping and the work of the International Maritime Organization



# Shipping affects us all

- More than 80% of world trade carried by sea
  - Raw materials and commodities
  - Finished goods
  - Food
  - Fuel
- Underpins global economy
- Safe, secure and environmentally friendly transport system



# Maritime transport costs

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		<b>Shelf price</b>	<b>Shipping costs</b>
<b>TV set</b>	1 unit	\$ 700.00	\$ 10.00
<b>DVD/CD player</b>	1 unit	\$ 200.00	\$ 1.50
<b>Vacuum cleaner</b>	1 unit	\$ 150.00	\$ 1.00
<b>Scotch Whisky</b>	Bottle	\$ 50.00	\$ 0.15
<b>Coffee</b>	1kg	\$ 15.00	\$ 0.15
<b>Biscuits</b>	Tin	\$ 3.00	\$ 0.05
<b>Beer</b>	Can	\$ 1.00	\$ 0.01



# Shipping: a truly international sector

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<b>Largest Flag States</b>	<b>Largest ownership by country</b>	<b>Largest operators</b>
Panama	Greece	Maersk (Denmark)
Liberia	Japan	MSC (Switzerland)
Marshall Islands	China	CMA (France)

Where is trade going to/from:  
**9 of the 10 largest ports are located in Asia**



# The International Maritime Organization

- The United Nations specialized agency responsible for safe, secure and efficient shipping and the prevention of pollution from shipping
- 170 Member States and three Associate Members, including all major ship-owning nations and all major coastal states

*“Safe, secure and efficient shipping on cleaner oceans”*

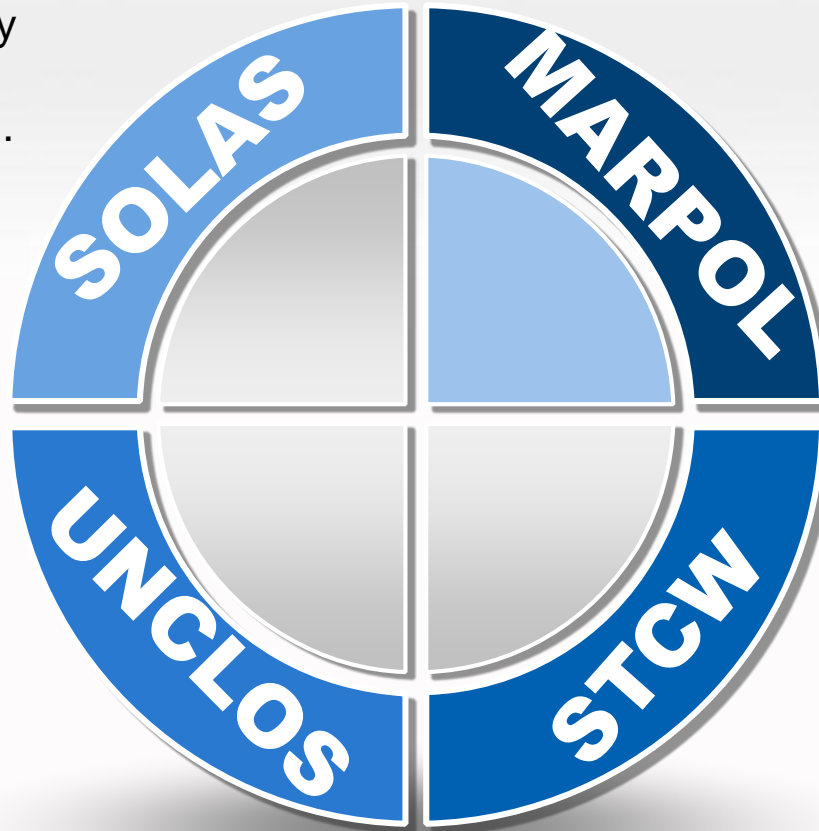


# The regulatory framework



## Interplay Safety – Environment - People and UNCLOS

Safety requirements apply to all ships which are subject to the Convention.



Provides the mandatory environmental protection level with zero discharge requirements in some areas.

Legal framework governing the rights and responsibilities of nations in their use of ocean space.

Guidance and recommendations for training and competency of officers and masters on ships.



# IMO and the Marine Environment



21 out of 53 international treaty instruments adopted by IMO so far are directly environmentally related

In the marine environment, IMO deals with issues regarding:

Shipping related pollution prevention and response

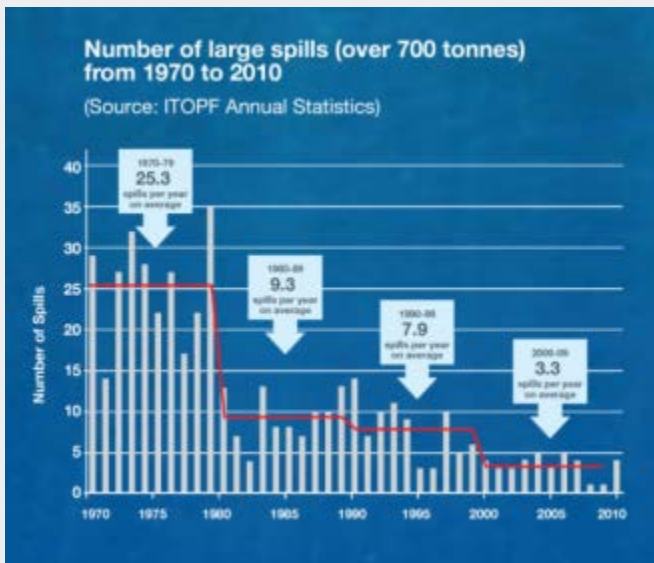
Dumping of Wastes and Other Matter

Offshore oil and gas platforms



# Pollution prevention, preparedness and response

- **Pollution Prevention – Oil and Chemicals**
- Operational and construction regulations introduced by MARPOL, together with other related instruments, have been successful in reducing Oil and Chemical Pollution
- **Preparedness for and Response to Pollution Incidents**
- OPRC 1990 and the OPRC-HNS Protocol (2010) address the preparedness aspects and response to incidents of oil and chemical pollution and hazardous noxious substances.

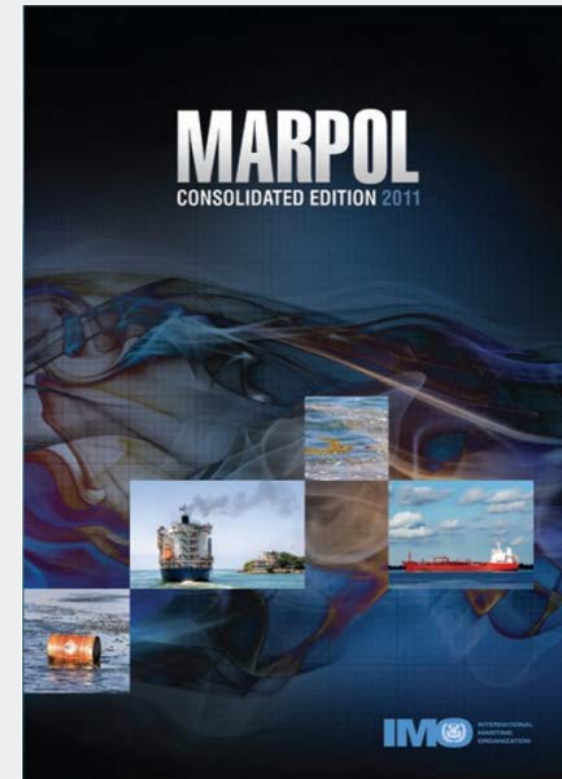




# MARPOL

## Prevention of Pollution from Ships - MARPOL

- Six annexes cover ship-generated pollution.
- Ensures ships are adequately designed, equipped, certified and inspected.
- Requires States to deal with oily and chemical wastes – port reception facilities.
- Applies to all ships, although not to pollution arising from the exploration and exploitation of sea-bed mineral resources.



# MARPOL

## MARPOL Annexes and their applicability

<b>Annexes I &amp; II</b>	<b>Annex III</b>	<b>Annex IV</b>	<b>Annex V</b>	<b>Annex VI</b>
Oil and Noxious Liquid Substances	Harmful Substances Carried at Sea in Packaged Form	Sewage from Ships	Garbage from Ships	Air Pollution from Ships
In Force	In Force	In Force	In Force	In Force
152 Parties	139 Parties	132 Parties	145 Parties	76 Parties
99% of World Tonnage	98% of World Tonnage	90% of World Tonnage	98% of World Tonnage	95% of World Tonnage



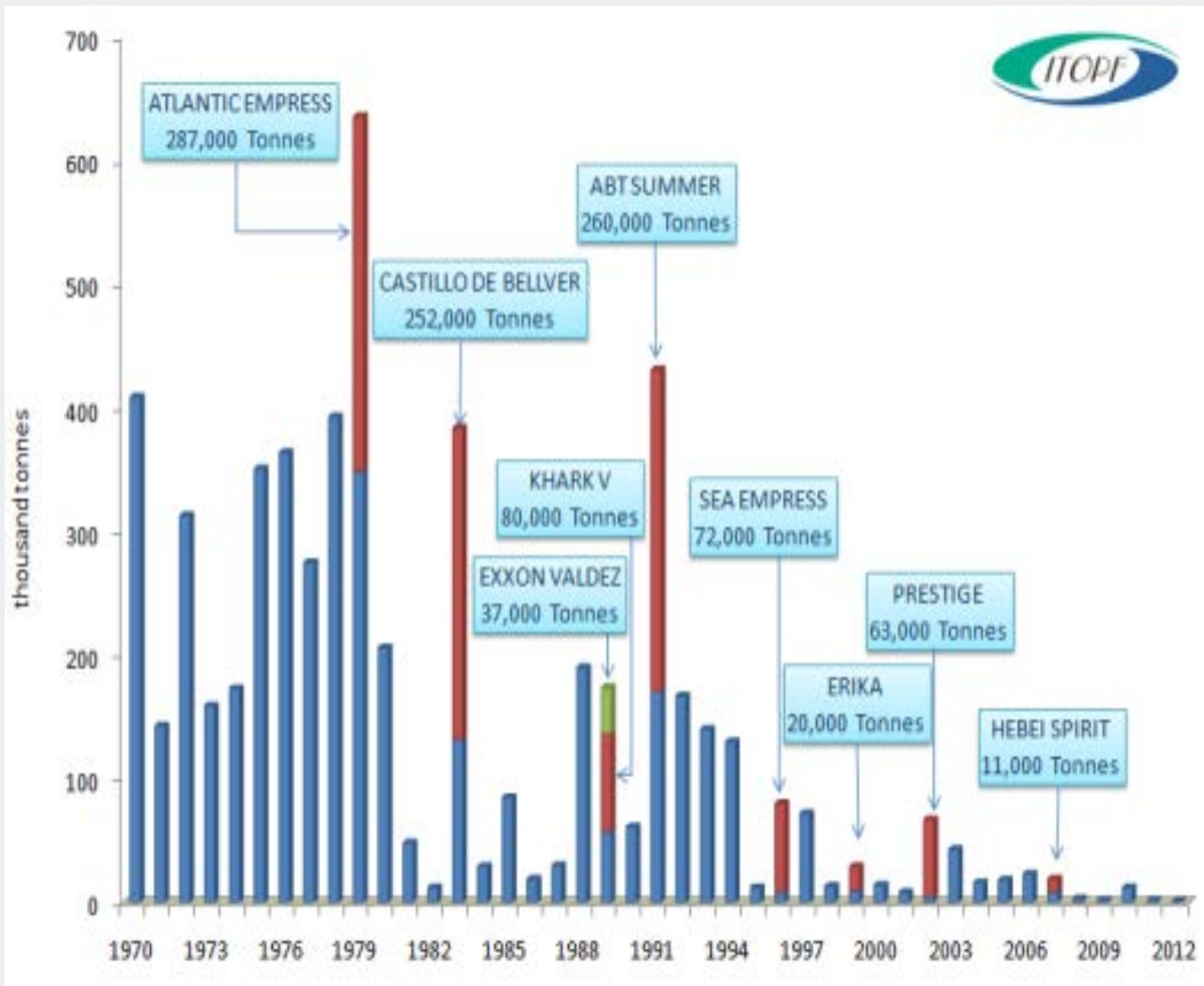
# IMO and Dumping of Waste

## London Convention and Protocol: Dumping of wastes and other matter

- Adopted in 1972
- Protocol adopted in 1996 to modernize and supersede the Convention. Came into force in 2006
- Regulates the dumping of matter into the ocean
- Also regulates **CO2 Sequestration** in sub-seabed geological formations
- Regulates **marine geoengineering**, incl. ocean fertilization - amendment in 2013



# Does it work? Example - statistics for oil spills



# Implementation – whose role?

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## Flag States

- Ensuring that their ships are in compliance with regulations (UNCLOS Art. 94)
  - Survey and certification
  - classification societies
  - voluntary audit scheme since 2006, **mandatory from 2016**

## Port States

- Verifying that ships calling their ports are in compliance
  - **Port State Control** (UNCLOS Art. 220)

# Implementation – whose role?

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## Coastal States

- Special rights and obligations in terms of its EEZ, contiguous zone, and Territorial Sea to safeguard its resources (UNCLOS, various articles, 220)
- Right of innocent passage (UNCLOS Art. 21, 24, 25)

## IMO

- No enforcement or 'policing' mandate



## Other related activities

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### Establishing special measures and protected areas

- **14 Particularly Sensitive Sea Areas (PSSAs)** designated by IMO
- **19 Special Areas and 3 Emission Control Areas** established under MARPOL

# Thank you for listening

[www.imo.org](http://www.imo.org)

