

MARINE POLLUTION – REGIONAL COLLABORATION IN EUROPE



EUROPEAN UNION

Sources of pollution

- **Pollution from ships (cargo, bunker, residual oils, ballast, litter,...)**
- **Pollution from oil platforms / rigs (explosions, fires, leakages,.....)**
- **Pollution from land-based activities (agriculture, industry, waste disposal...)**
- **Pollution from disasters (landslides, volcanoes, ...)**
- **Atmospheric fallout**
- **Natural seeps**

MARINE POLLUTION

- **Sources of pollution**
- **Generation of oily waste on-board ships**
- **Types of pollutants and their behavior at sea**
- **Paraffin and vegetable oils**

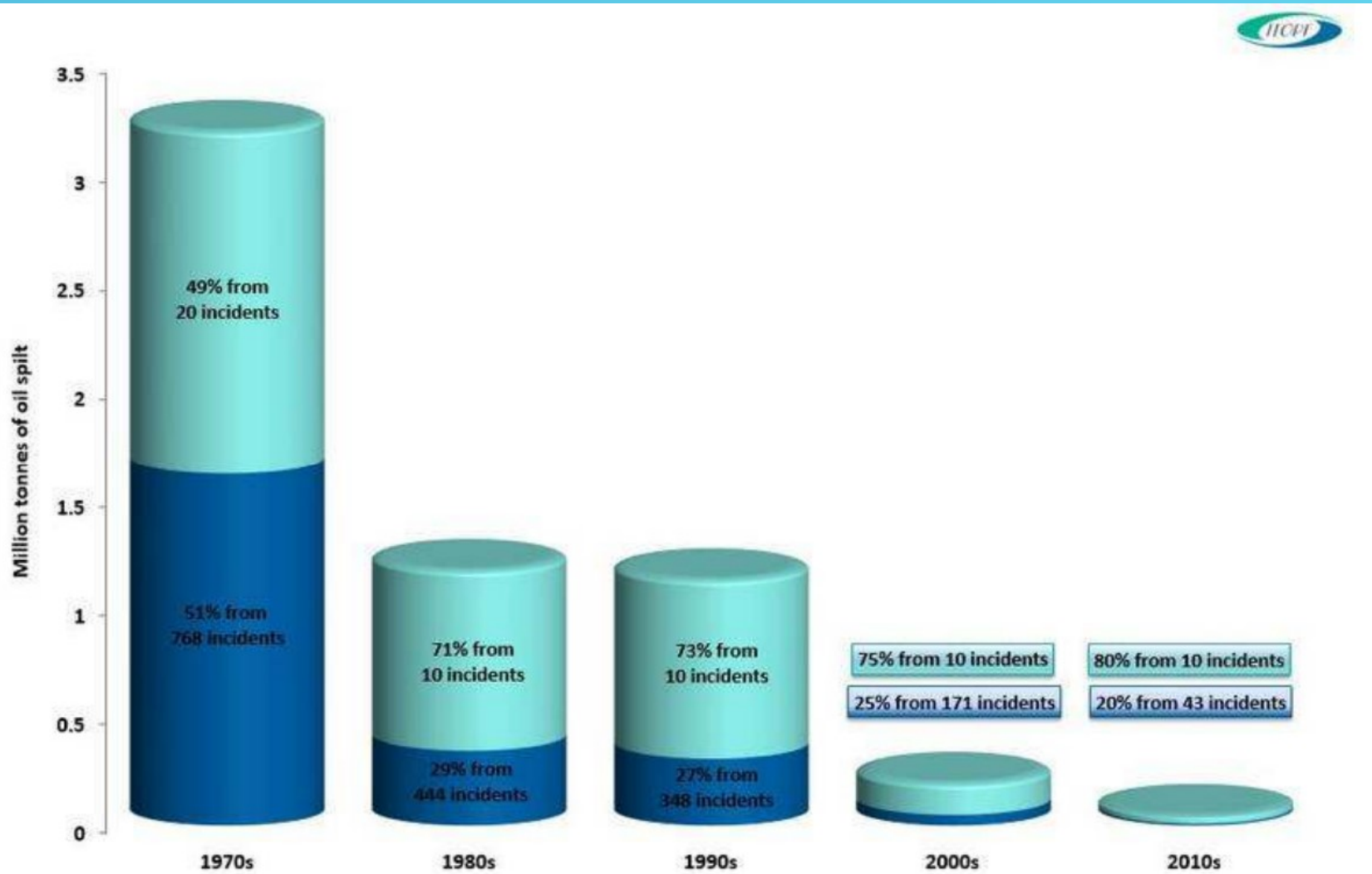


M.S. EVER ACE

- ▶ **Can carry 23 992 full 20-foot containers**
- ▶ **LOA 399 meters, B 61,5 meters**
- ▶ **Ca. 400 Tons of diesel oil**
- ▶ **... and ca. 18 000 Tons of heavy fuel oil**
- ▶ **(The Erika was carrying 31 000 Tons of HFO (cargo), spilled 19 to 20 000 Tons)**
- ▶ **... took more than 1 year to clean)**

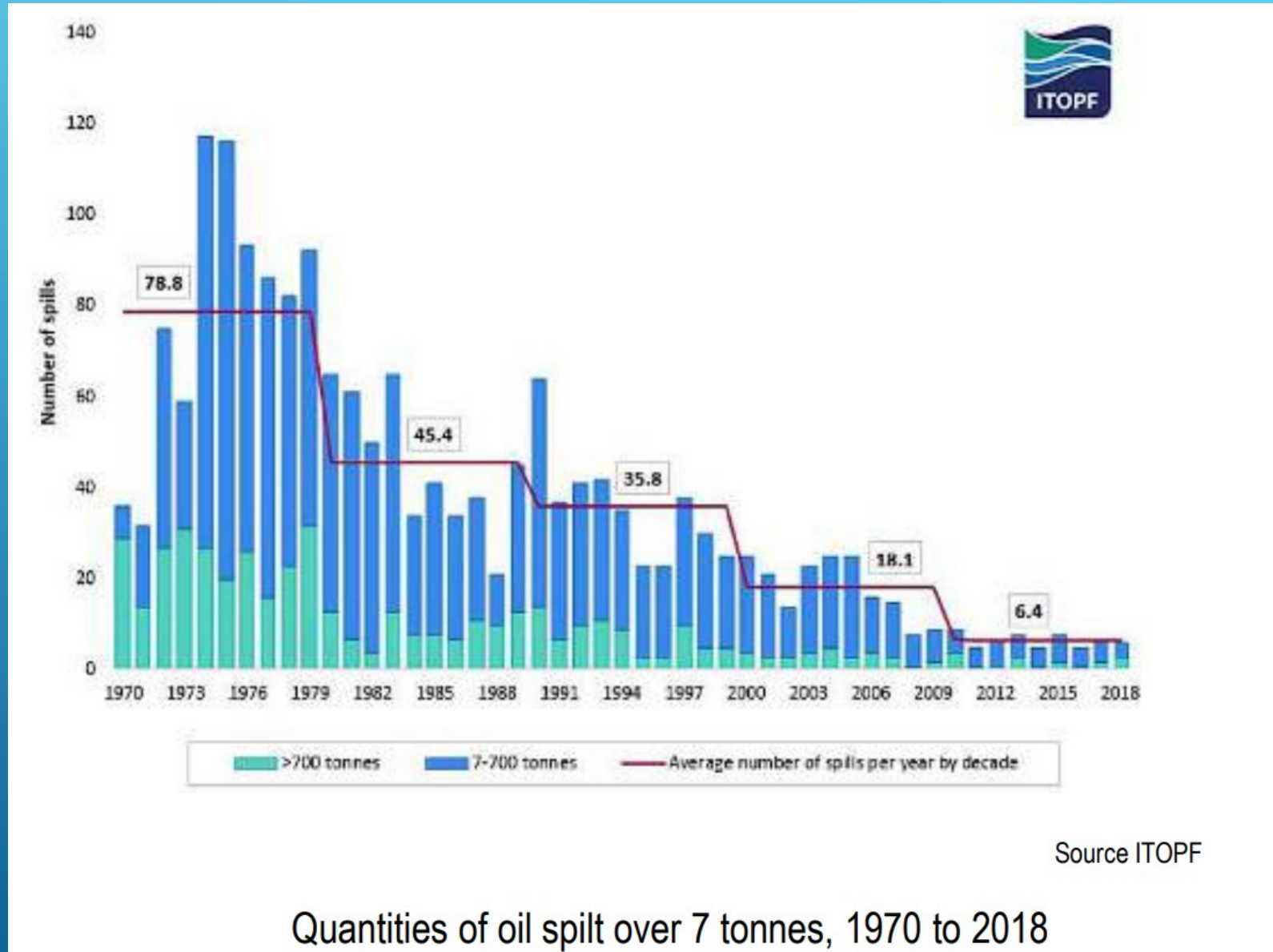


Major spills from tankers....



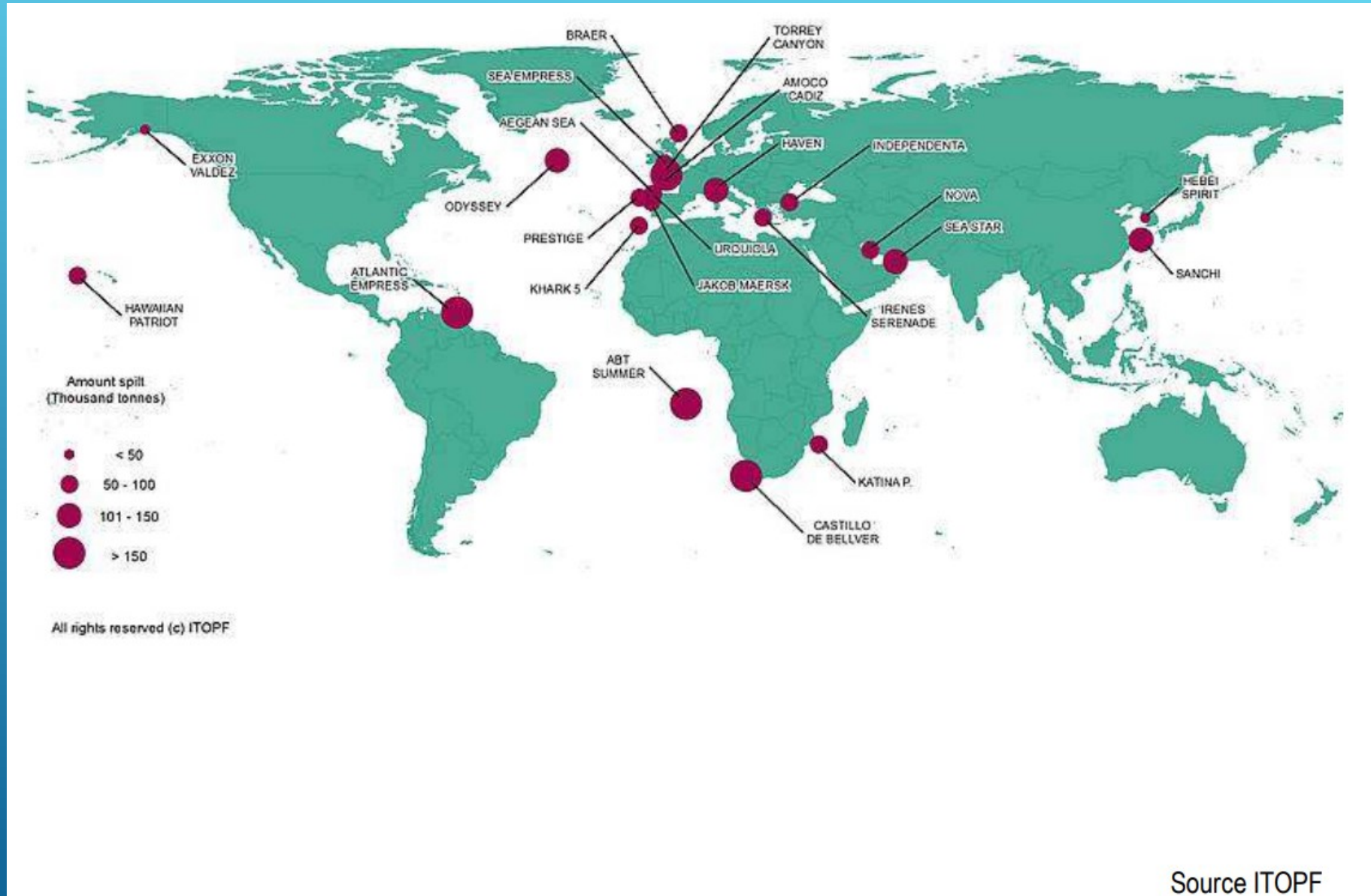
Major spills from tankers as a percentage of those recorded from 1970 to 2017 per decade

Quantities of oil spilled 1970 - 2018

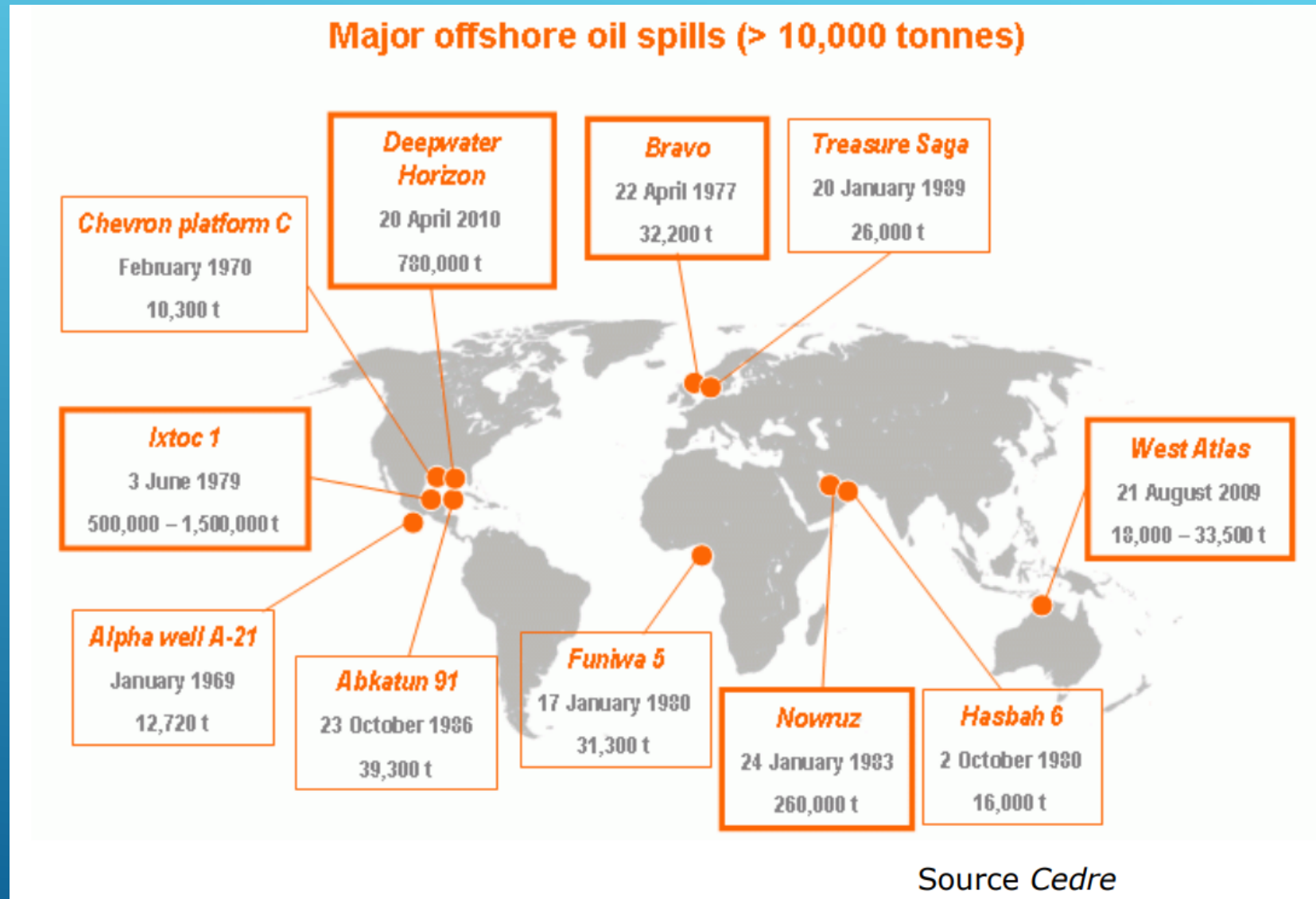


Quantities of oil spilt over 7 tonnes, 1970 to 2018

Location of major spills from tankers 1970 - 2018



What about oil platforms?



Main international legal framework

UNCLOS

- **United Nations Convention on the Law of the Sea**
 - **Prevention of marine environmental discharges**
 - **Freedom of the high seas**
 - **Jurisdiction and enforcement at sea**

MARPOL

- **The International Convention for the Prevention of Pollution from Ships**
 - **Prevention of intentional discharges**
 - **Limit accidental pollution**
 - **Construction requirements**
 - **Limits for legal discharges of substances from vessel to sea**



Cooperation - illegal discharges

- **MARPOL**

- Cooperation in detection and enforcement of violations

- **UNCLOS**

- Facilitate hearing of witnesses and admission of evidence
 - Notification of Flag State

- **Port State Control** (Paris MOU and EU Directive on PSC)

- **Police cooperation**
(INTERPOL and Schengen agreement)

- **EU legislation on**
 - extradition
 - mutual assistance in criminal matters
 - transfer of proceedings in criminal matters



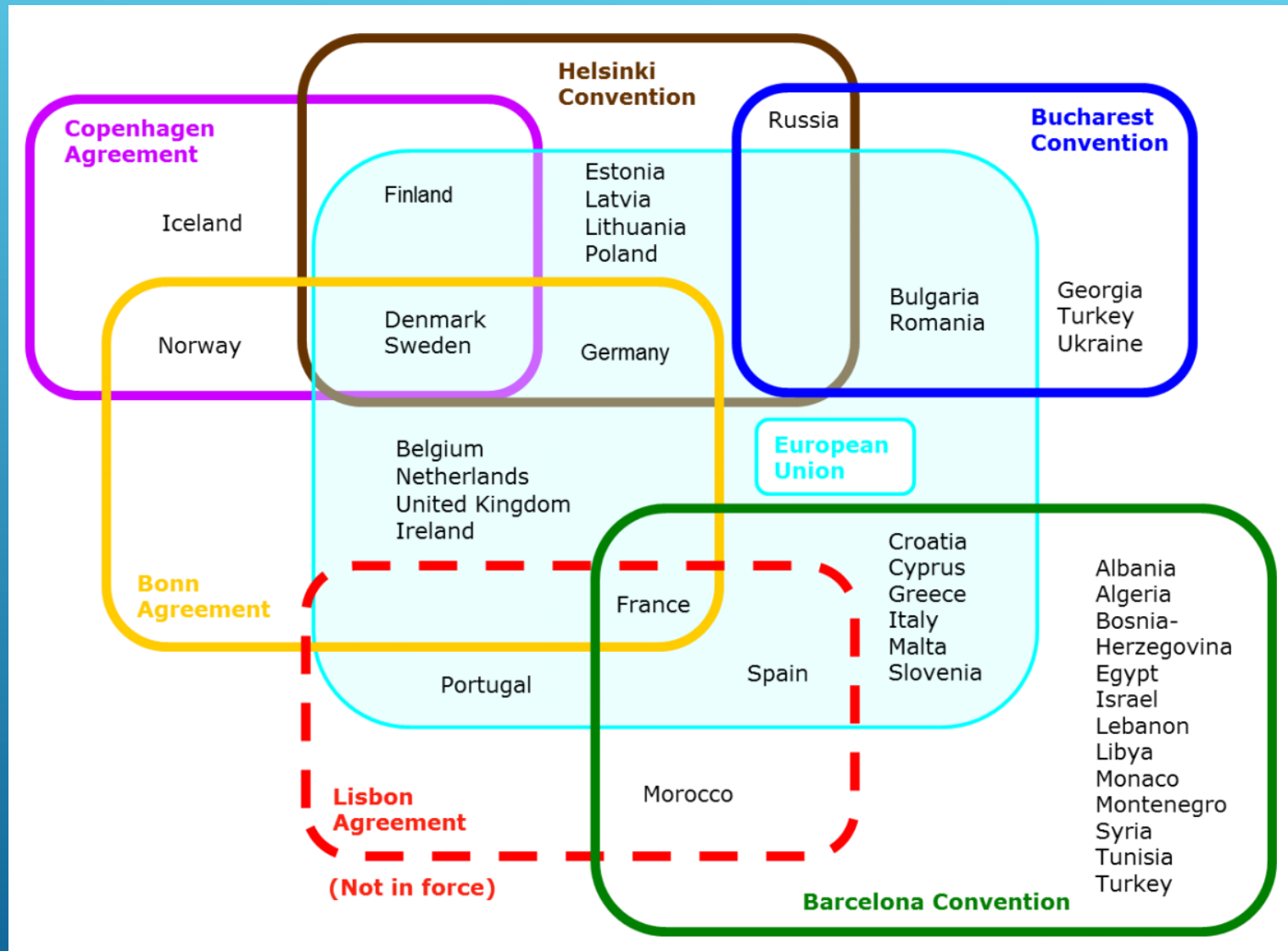
Directive on ship-source pollution

Directive 35/2005/EC on ship-source pollution and on the introduction of penalties, including criminal penalties, for pollution offences, as amended by Directive 2009/123/EC

- **Aims to incorporate MARPOL standards in EU law**
- **Ensure adequate penalties**
- **Applies to discharge of oil and other noxious substances from ships (MARPOL Annex I and II)**
- **Wide scope – in general MS internal waters, territorial sea, EEZ and high seas and any ship**
- **Requires MS to criminalize discharges if intent, recklessness or serious negligence**
- **Offences should be punishable with effective, proportionate and dissuasive criminal penalties**



Overview of Regional Agreements



Emergency Response Coordination Centre (ERCC)

What is it

- The Emergency Response Coordination Centre (ERCC) is the heart of the EU Civil Protection Mechanism. It coordinates the delivery of assistance to disaster stricken countries, such as relief items, expertise, civil protection teams and specialized equipment. The center ensures the rapid deployment of emergency support and acts as a coordination hub between all EU Member States, the 6 additional Participating States, the affected country, and civil protection and humanitarian experts. The center operates 24/7 and can help any country inside or outside the EU affected by a major disaster upon request from the national authorities or a UN body.

Why is this important

- A well-coordinated response to man-made disasters and natural hazards at European level can avoid duplication of relief efforts and ensure that assistance is tailored to the needs of those affected. To lessen the burden on contributing states, the Emergency Response Coordination Centre can liaise directly with the national civil protection authorities of the country in need and can also financially support the delivery of civil protection teams and assets to the affected country.



ERCC activations 2020

EU Civil Protection Mechanism



102 activations in 2020,
more than 2/3 COVID-19 related



Flood



Repatriation



Tropical
cyclone



Earthquake



Forest
fire



Population
displacement



Epidemic



Accident



European
Commission

EMSA

- **The Agency provides technical assistance and support to the European Commission and Member States in the development and implementation of EU legislation on maritime safety, pollution by ships and maritime security.**
- **It has also been given operational tasks in the field of oil pollution response, vessel monitoring and in long range identification and tracking of vessels.**

Directive 2005/35/EC, as amended, tasks EMSA working with Member States in relation to the implementation of the Directive.

This includes a range of activities, such as

- **developing information systems,**
- **establishing common practices and guidelines,**
- **developing technical solutions (e.g. satellite monitoring),**
- **and assisting the Commission.**

EMSA guidelines

This publication is intended to support authorities involved in the enforcement chain addressing illegal pollution e.g.

- **surveillance operators,**
- **inspectors and investigators,**
- **Port State Control Officers,**
- **law enforcement officials**

However, the document has been developed so that each chapter can also be read in isolation, and readers can quickly identify the specific information they require.



EMSA - Pollution Response Services

Network of Standby Oil Spill Response Vessels

➤ Vessels Info-sheets

Equipment Assistance Service

➤ EAS Info-sheets

Chemical Spill Response

➤ MAR-CIS Infosheets

Technical cooperation

➤ International Forums

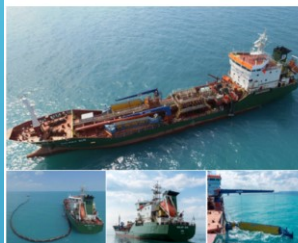
➤ Empollex Expert Exchange

➤ How to apply

➤ Guidelines

➤ Consultative Technical Group (CTG-MPPR)

Galaxy Eco

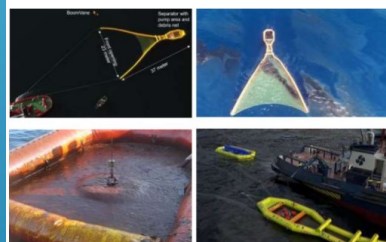


Type: Oil Tanker.

Operational Area: Black Sea.

Equipment Depot: Varna, Bulgaria.

Combined recovery system NOFI current buster 4 (AllMaritim)



WHO CAN ACCESS MAR-CIS?



Public administrations (e.g. marine pollution response authorities, harbour authorities, coast guard) from EU member states and EFTA coastal states can access the MAR-CIS information.


HOW TO ACCESS MAR-CIS INFORMATION

MAR-CIS information is available online through a web portal and through a downloadable application for mobile devices for both online and offline use. Both systems allow users to search, print and share the dataset as a pdf file.


- The web portal is accessible via the EMSA Maritime Applications Portal <https://portal.emsa.europa.eu>
- The application for mobile devices is available on the Google Play Store and Apple App Store.

Please contact the MAR-CIS contact point MAR-CIS@emsa.europa.eu to get access to both systems, or for more information.



Responders coating a container on the MSC FLAMINGO, 2012




MAR-CIS

MARINE CHEMICAL INFORMATION SHEETS

[emsa.europa.eu](https://portal.emsa.europa.eu)

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European Maritime Safety Agency (EMSA)
Princesa Europa 4 / 1249-2016 Lisbon / Portugal

 **EMSA**
European Maritime Safety Agency

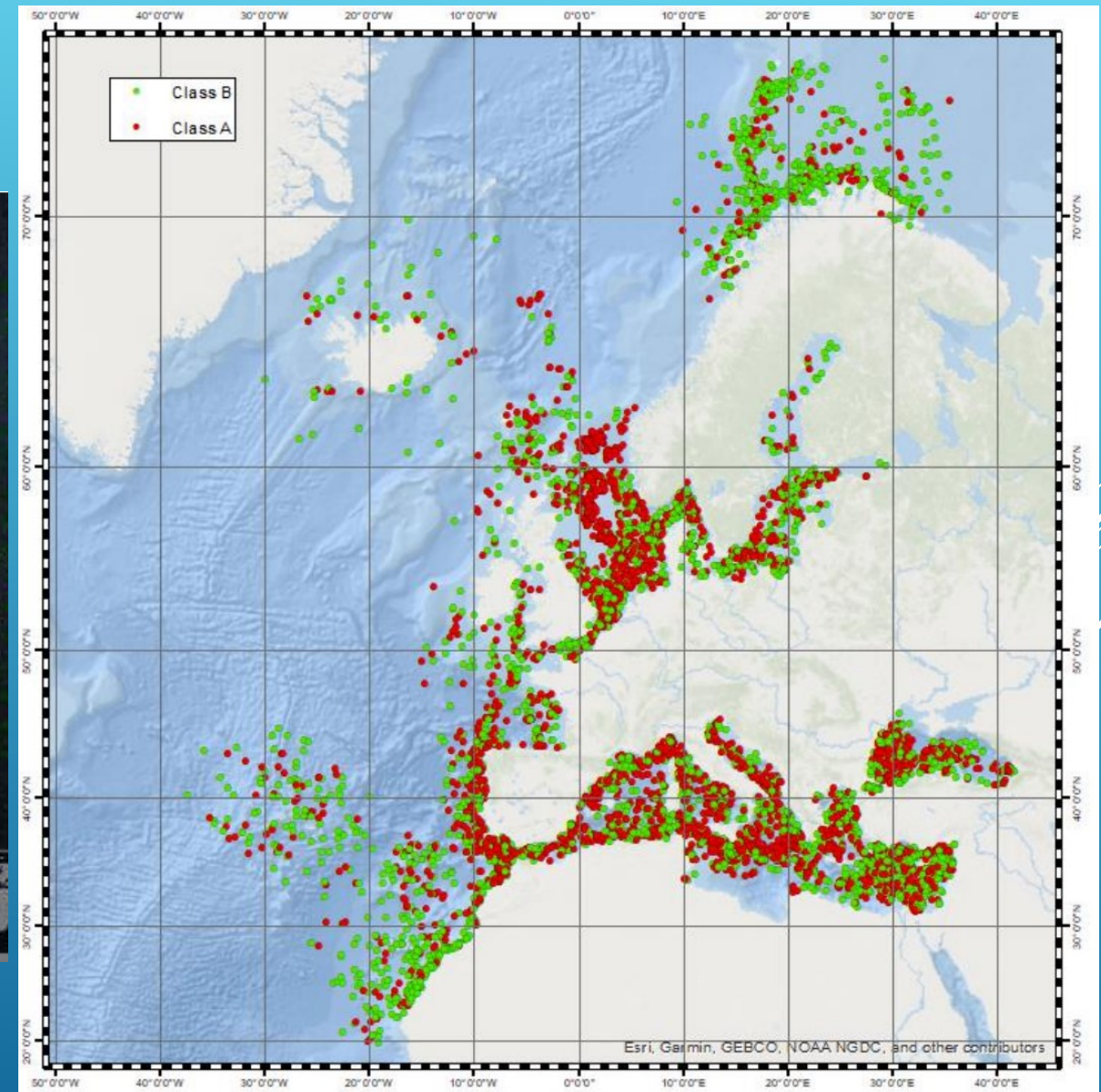
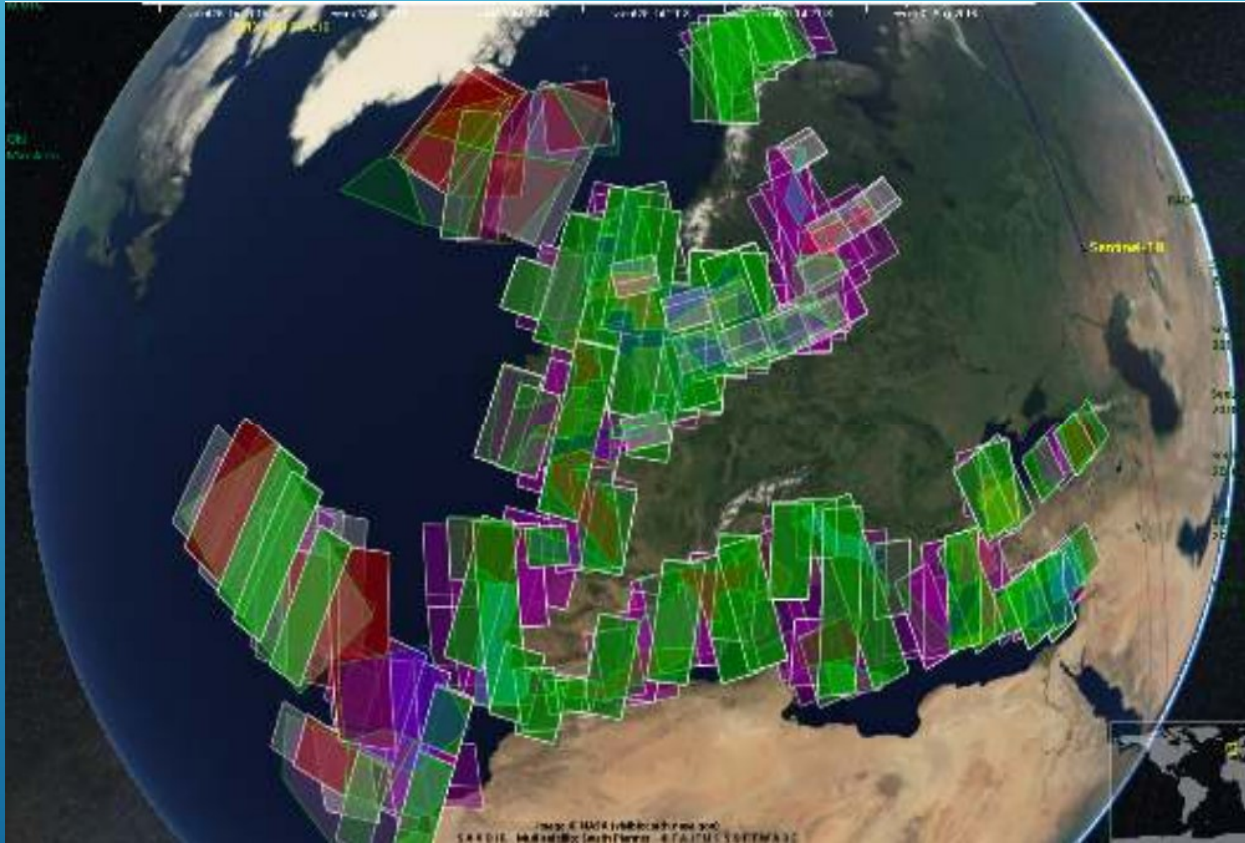
CleanSeaNet

European satellite-based oil spill monitoring service operated by EMSA

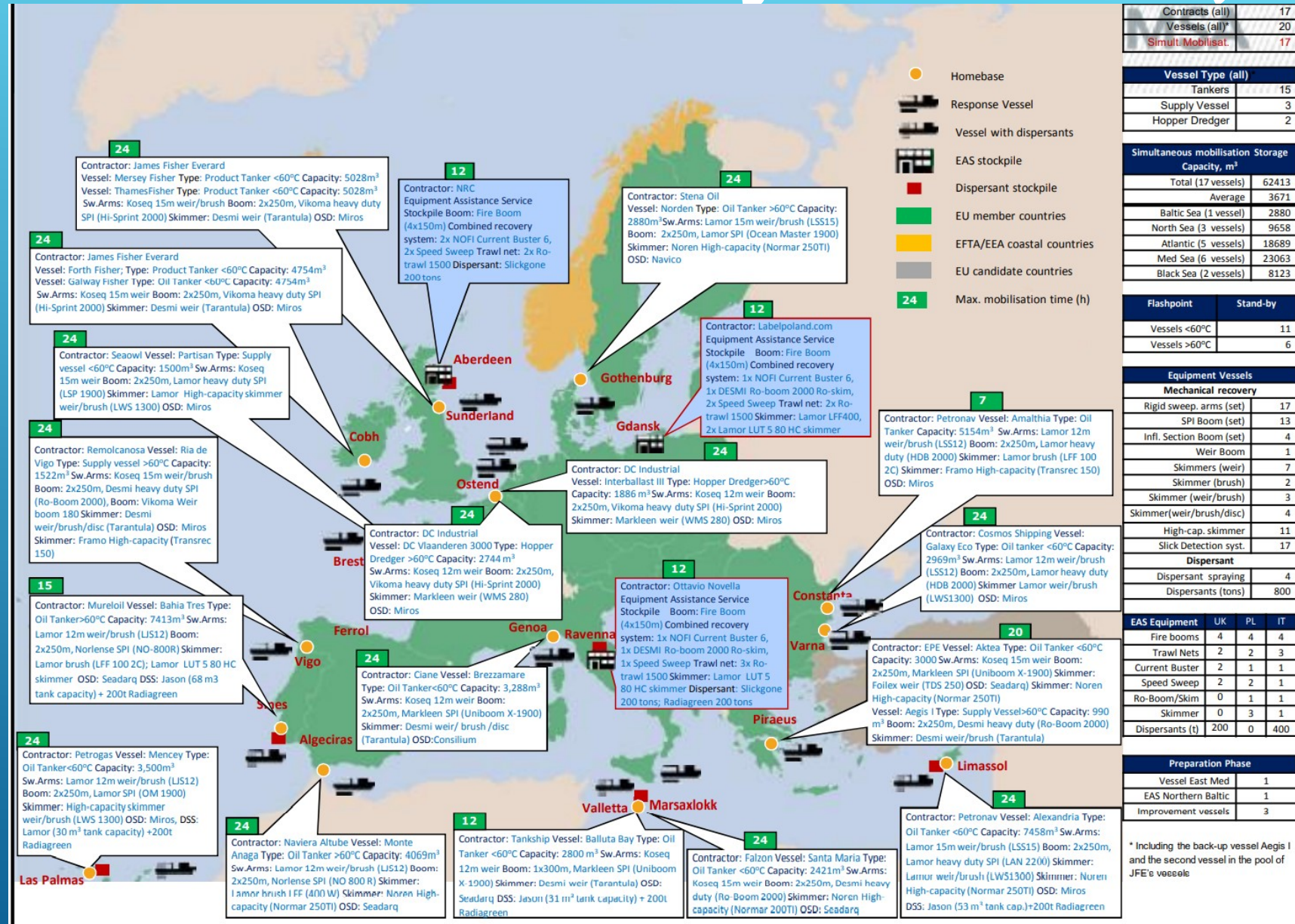
- **Available to EU Member States, candidate countries and EFTA: MRCC's, Environmental Agencies and Coastguards**
- **Analysed information is delivered to users in quasi real time (20 min. after satellite overpass)**
- **Regular monitoring of European waters**
- **Identification of polluters by combining satellite information and vessel traffic data**
- **24/7/365 support in case of emergencies**



EMSA facilitating services and collaboration



EMSA OPR Services Summary Information, II/2019





THANK YOU VERY MUCH!

