



INVENTORY OF EU MEMBER STATES OIL POLLUTION RESPONSE VESSELS 2016

**INVENTORY OF EU MEMBER
STATES OIL POLLUTION
RESPONSE VESSELS 2016**



Introduction	4
Country profiles	7
Belgium	9
Bulgaria	15
Croatia	21
Cyprus	31
Denmark	35
Estonia	43
Finland	49
France	59
Germany	65
Greece	79
Iceland	87
Ireland	91
Italy	95
Latvia	111
Lithuania	117
Malta	123
Norway	129
Poland	141
Portugal	149
Romania	161
Slovenia	171
Spain	175
Sweden	183
The Netherlands	191
United Kingdom	201

INTRODUCTION

The European Maritime Safety Agency (EMSA) has been given the task by Regulation (EC) No 724/2004 to “draw up on a regular basis a list of the private and state pollution response mechanisms and response capabilities in the various regions of the European Union”.

In order to fulfil this task of providing accurate and up-to-date information on the pollution preparedness and response mechanisms and capabilities of the EU and EFTA coastal States, EMSA contacts the competent authorities in each State and prepares specific inventories such as this Inventory of EU Members States Oil Pollution Response Vessels 2016.

This is the fourth updated version of the inventory, first published in 2006 and revised in 2009 and 2012. The present edition of the Oil Pollution Response Vessels inventory replaces the previous versions. This update is based on information provided and verified by the competent national authorities in each Member State.

In particular, this inventory contains information for each Member State regarding:

- Profile for each EU Member State
- List of vessels regarding including ownership: Government owned (specialised and non-specialised vessels) and private resources for oil pollution response
- Previous experience with oil pollution response
- Regional and bilateral agreements
- Drills and exercises regarding oil pollution response
- Vessel's main characteristics
- Storage capacity and equipment details
- Equipment available on board for anti-pollution response.

EMSA would like to thank all parties that have contributed to the contents of this document



COUNTRY PROFILES





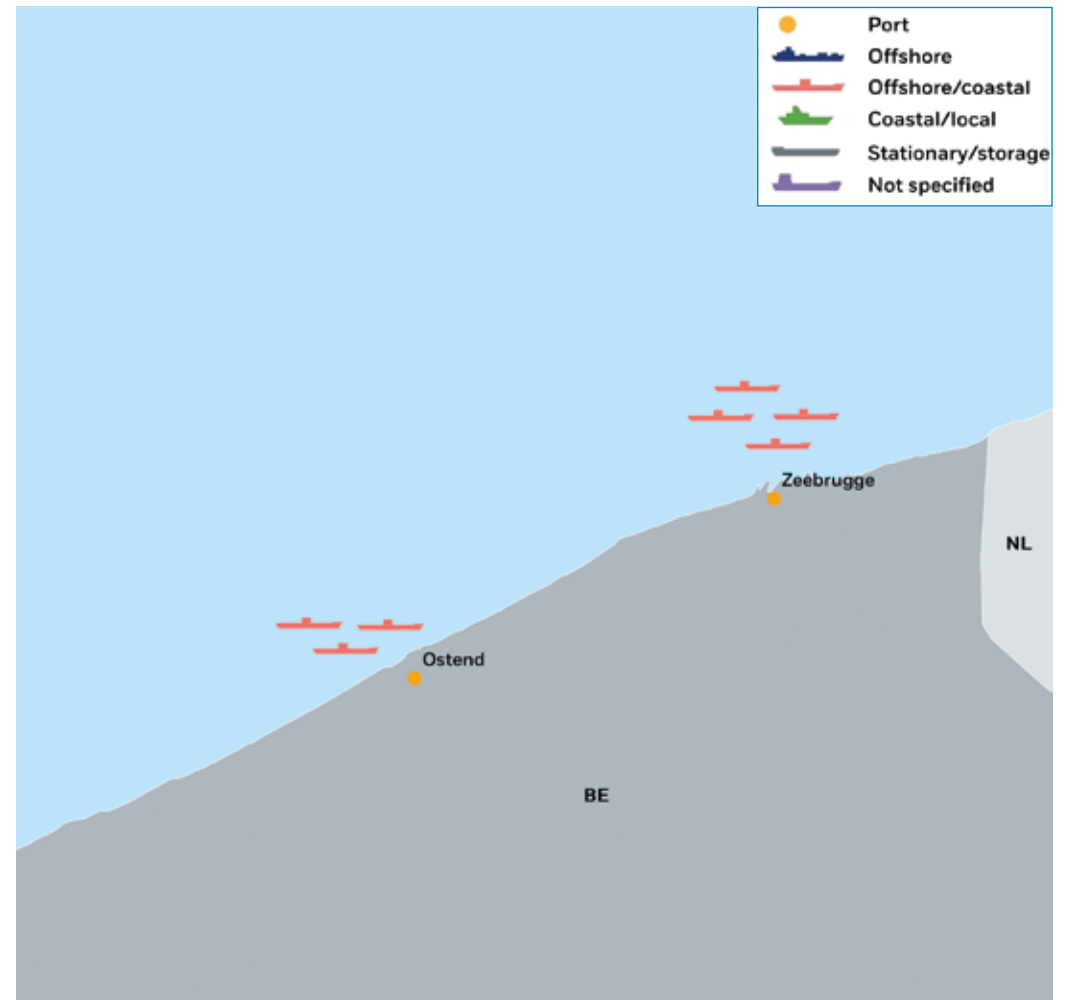
BELGIUM

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Directorate-General Environment of the Federal
Public Service Health, Food Chain Safety and
Environment

LOCATION OF OIL POLLUTION RESPONSE VESSELS

- Ostend
- Zeebrugge



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

Belgium does not own or have under charter any specialised pollution response vessels, however 'vessels of opportunity' are available for the deployment of specialised pollution response equipment owned by the Directorate-General Environment of the federal public service Health, Food Chain Safety & Environment (see 1.2).

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

The Directorate-General Environment of the Federal Public Service Public Health, Food Chain Safety & Environment owns a comprehensive stockpile of oil pollution response equipment located near Ostend. This equipment includes: one Vikoma Hi Sprint boom 1500 (300 m) and Sea Devil Skimmer or Vikoma sea Skimmer 50; one Nofi Vee Sweep 450/1000 system with 450S guide boom and Komara 40 skimmer or Komara Star skimmer; four Vikoma pollutant floating storage units and four Vikospray 2000 dispersant spraying unit as well as a stock of dispersants. Complete sets of oil recovery systems and dispersant-spraying gear can be deployed by several 'vessels of opportunity' belonging respectively to the fleet service of the Regional Flemish Maritime Services Agency and the Federal Science Policy Office, assisted by Ready Duty ships of the Belgian Navy.

The Belgian Navy permanently maintains one of three vessels on stand-by at Zeebrugge to accomplish different tasks, including SAR, fisheries inspections and anti-pollution operations. The three vessels available for such duties are: A950 VALCKE, A963 STERN and A996 ALBATROS. The vessels do not have permanently anti-pollution equipment and booms on-board. Skimmers or dispersant spraying equipment would be loaded as needed. However, the storage capacity of the vessels used for oil recovery is limited and dependent of the use of floating storage tanks.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

Belgium does not have any contracts for pollution response vessels with private companies. Major oil terminals have some equipment, including dispersant, to meet their own requirements but no formal agreements exist whereby this equipment could be pooled in the event of a large incident. However, Total and Esso have agreed to make their equipment available in the event of an oil spillage in the port of Antwerp.

The private companies 'URS Salvage & Maritime Contracting' and 'Multtraship Towage & Salvage' based in the Scheldt estuary area, operate several vessels which have salvage equipment on board for fire-fighting, re-floating of grounded or sunken ships, wreck removal and oil pollution response.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

The UNION BEAVER is a multi-purpose salvage vessel of the company "URS Salvage & Maritime Contracting". She is equipped with dispersant-spraying gear, and with two sweeping arms and LORI side-collector units. She has an on board autonomous oil-storage capacity of about 300 m³. The UNION BEAVER participated in the international response to the Prestige oil spill (2002-2003) and was engaged as first-line oil-combating vessel in the oil-pollution contingency arrangements on the site of the tricolor wreck-removal operation off Dunkirk (2003-2004). This vessel is not at the present time under contract of the Belgian authorities.

4. REGIONAL AND BILATERAL AGREEMENTS

Bonn Agreement Quadrupartite joint responsibility zone.

5. DRILLS AND EXERCISES

On land with response equipment: weekly.

Exercises at sea: yearly (deployment of response equipment in cooperation with neighbouring countries).

**ZEEHOND**

LOCATION	Ostend
OPERATIONS	Offshore/Coastal

VESSEL

Class	Emergency towing vessel ETV pollution response
LOA (m)	39.5
Breadth (m)	10
Draught (m)	3.45
GT (tonnes)	Not specified
Average speed (kn)	13
Age of vessel	21
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	50 m ³ per tank floating tanks (NOB)
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Dispersant spraying system (NOB)*
- Disk skimmer + floating storage tank (NOB)*
- NOFI V-Sweep boom (NOB)*

ZEETIJGER

LOCATION	Ostend
OPERATIONS	Offshore/Coastal

VESSEL

Class	Emergency towing vessel ETV pollution response
LOA (m)	30.08
Breadth (m)	9.1
Draught (m)	3.2
GT (tonnes)	309
Average speed (kn)	11.5
Age of vessel	1
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Dispersant spraying system (NOB)*
- Disk skimmer + floating storage tank (NOB)*
- NOFI V-Sweep boom (NOB)*
- Vikoma HiSprint boom (300 m³ on hydraulic reel)
(NOB)*

TER STREEP

LOCATION	Ostend
OPERATIONS	Offshore/Coastal

VESSEL

Class	Research vessel
LOA (m)	49.85
Breadth (m)	9.6
Draught (m)	3.65
GT (tonnes)	Not specified
Average speed (kn)	11
Age of vessel	26
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	100 m ³ per tank floating tanks (NOB)
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Dispersant spraying system (NOB)*
- Disk skimmer + floating storage tank (NOB)*
- NOFI V-Sweep boom (NOB)*
- Vikoma HiSprint boom (300 m³ on hydraulic reel)
(NOB)*

* NOB: Not on board

BELGICA

LOCATION	Zeebrugge
OPERATIONS	Offshore/Coastal

VESSEL

Class	Research vessel
LOA (m)	50.9
Breadth (m)	10
Draught (m)	4.6
GT (tonnes)	765
Average speed (kn)	11
Age of vessel	27
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	387 kNm, 2.9 t/13.6 m
Total storage capacity (m ³)	100 m ³ per tank floating tanks (NOB)
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Dispersant spraying system (NOB)*
- Disk skimmer + floating storage tank (NOB)*
- NOFI V-Sweep boom (NOB)*
- Vikoma HiSprint boom (300 m on hydraulic reel) (NOB)*

A950 VALCKE

LOCATION	Zeebrugge
OPERATIONS	Offshore/Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	30.68
Breadth (m)	7.55
Draught (m)	3.8
GT (tonnes)	316
Average speed (kn)	10
Age of vessel	51
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Dispersant spraying system (NOB)*
- Floating storage tanks (NOB)*

A963 STERN

LOCATION	Zeebrugge
OPERATIONS	Offshore/Coastal

VESSEL

Class	Patrol/Navy Vessel
LOA (m)	49.9
Breadth (m)	8.52
Draught (m)	2.9
GT (tonnes)	378
Average speed (kn)	13
Age of vessel	31
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1250
Total storage capacity (m ³)	50 m ³ per tank floating tanks (NOB)
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Dispersant spraying system (NOB)*

* NOB: Not on board



A996 ALBATROS

LOCATION	Zeebrugge
OPERATIONS	Offshore/Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	27.7
Breadth (m)	69.7
Draught (m)	2.8
GT (tonnes)	206
Average speed (kn)	10
Age of vessel	43
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Dispersant spraying system (NOB)*
- Floating storage tanks (NOB)*

* NOB: Not on board





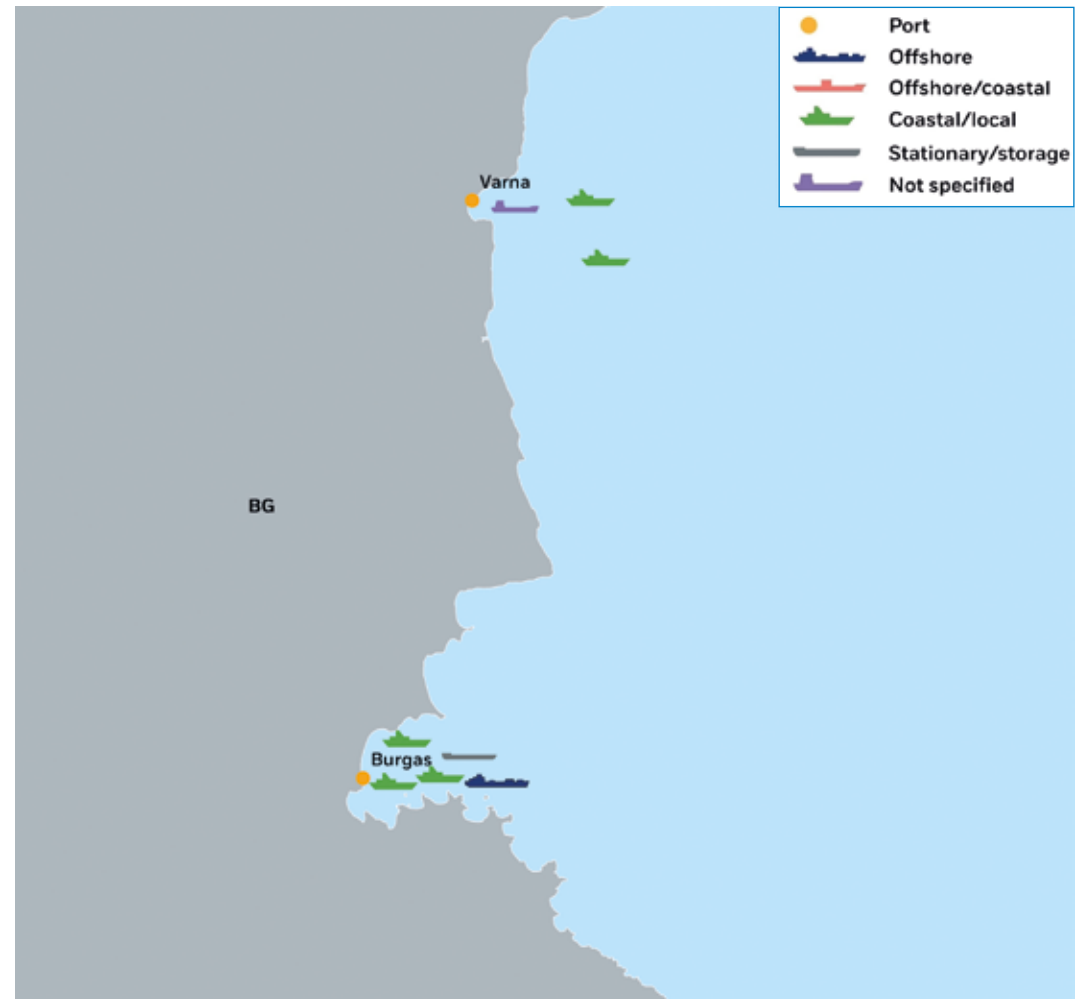
BULGARIA

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Executive Agency Maritime Administration to the
Ministry of Transport, Information Technologies and
Communications

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Burgas
- Varna



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

According to the National Oil Spill Contingency Plan, the lead role for at-sea spill response operations is assigned to the Bulgarian Maritime Administration (BMA) of the Ministry of Transport, Information Technology and Communications and is exercised through the Marine Emergency Response Squadron (MERS). Bulgarian territorial waters are divided into two regions of responsibility covering respectively the BMA's directorates in Varna and Burgas. The harbour masters of Varna and Burgas are in charge of the relevant MERSs.

Shoreline clean-up operations are dealt with by the Coastal Emergency Response Squadron (CERS) led by the "Fire Safety and Rescue" Directorate General to of the Ministry of Interior.

The coordination between different response teams is carried out by Headquarters for coordination and control there are two levels of the Permanent Commission (PC) – one national (to the Council of Ministers) and one regional level (to the Governors).

The preferred response is containment/recovery for at sea response and manual/mechanical techniques for shoreline clean-up. Special permission for the use of chemicals (e.g. dispersants) needs to be obtained from the Ministry of Environment and Waters. Limited stockpiles of equipment for at-sea response are held by the private company Marine

Antipollution Enterprise JSC. The Border Police and Bulgarian Navy can also provide a range of vessels and personnel to support the response, if needed.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

There are two survey vessels and 14 multipurpose vessels based in the ports of Varna and Burgas.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

There are eight oil spill response vessels in the main Bulgarian ports – Varna and Burgas. Oil recovery vessels of this type are operational in sea conditions up to two Beaufort scale.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

- UNIREA (1982) spilt an unknown quantity of bunkers after exploding off Cape Kaliakra
- KRITI LAND (1987) spilt 40-100 t of crude at the Druzba terminal, Burgas.
- HAWAIIAN LEADER (2006) spilt 20-30t of crude oil rebco during cargo operation in Port Rossetz, Burgas
- ADALBERT ANTONOV (2008) spilt 10-20 t of IFO 180 in port of Varna

4. REGIONAL AND BILATERAL AGREEMENTS

- Bucharest Convention
- Odessa Declaration

- Strategic Action Plan for the Rehabilitation and Protection of the Black Sea
- Sofia Declaration

5. DRILLS AND EXERCISES

Last national exercise was carried out between 8-10 March 2010 in Varna. This was a joint oil spill response exercise between EMSA and Bulgaria with main goal to evaluate the readiness of Bulgaria to deal with major oil spills by training of the following elements of:

1. The National Oil Spill Contingency Plan finalized in 2001 (NCP' 2001):

- Oil spill surveillance and evaluation (position, type and quantity of oil spilt);
- Modelling the movement of oil spill on the sea surface and possible risk assessment with regard to sensitive and protected areas (using the specialized software product GNOME);
- Mobilization and deployment of the national oil spill response resources.

2. The Regional Contingency Plan approved in 2003 by the Commission on the Protection of the Black Sea Against Pollution (RCP' 2003), duly signed by Bulgaria in October 2003 – communications testing for in the Black Sea region via BRAVO exercise carried out in line with the long-term Plan for Oil Spill Preparedness Exercises with leading country Bulgaria - BG-BRAVO N1/2010; testing the mechanisms of requesting and receiving European support (EMSA stand-by oil spill recovery vessels).

**RUSALKA**

LOCATION	Burgas
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	25.22
Breadth (m)	7.01
Draught (m)	3.24
GT (tonnes)	144
Average speed (kn)	10
Age of vessel	30
IMO No.	8100753

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	3
Total storage capacity (m ³)	128
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Boom - 1000 m
- DESMI Skimmer - 50 m³/hr

NS-26

LOCATION	Varna
OPERATIONS	Local

VESSEL

Class	Oil recovery vessel
LOA (m)	14.85
Breadth (m)	4.3
Draught (m)	1.6
GT (tonnes)	26
Average speed (kn)	2
Age of vessel	34
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	12
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Not specified

NS-28

LOCATION	Varna
OPERATIONS	Local

VESSEL

Class	Oil recovery vessel
LOA (m)	14.85
Breadth (m)	4.3
Draught (m)	1.6
GT (tonnes)	26
Average speed (kn)	2
Age of vessel	33
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	12
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Not specified

NS-23

LOCATION	Burgas
OPERATIONS	Local

VESSEL

Class	Oil recovery vessel
LOA (m)	14.85
Breadth (m)	4.3
Draught (m)	1.6
GT (tonnes)	26
Average speed (kn)	2
Age of vessel	35
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	14.8
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Not specified

NS-25

LOCATION	Burgas
OPERATIONS	Local

VESSEL

Class	Oil recovery vessel
LOA (m)	14.85
Breadth (m)	4.3
Draught (m)	1.6
GT (tonnes)	26
Average speed (kn)	2
Age of vessel	33
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	14.8
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Not specified

TYULENOVO - 2

LOCATION	Varna
OPERATIONS	Not specified

VESSEL

Class	Oil recovery vessel
LOA (m)	43.36
Breadth (m)	7.13
Draught (m)	3.5
GT (tonnes)	341
Average speed (kn)	7.8/7.2
Age of vessel	40
IMO No.	7516917

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	450
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Not specified

**TAYFUN 64**

LOCATION	Burgas
OPERATIONS	Local

VESSEL

Class	Multipurpose vessel
LOA (m)	11.76
Breadth (m)	2.86
Draught (m)	0.81
GT (tonnes)	11
Average speed (kn)	12
Age of vessel	27
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Not specified

STATIONARY FLOATING STORAGE TANK

LOCATION	Burgas
OPERATIONS	Stationary

VESSEL

Class	Oil recovery vessel
LOA (m)	14
Breadth (m)	6
Draught (m)	2
GT (tonnes)	26
Average speed (kn)	Not specified
Age of vessel	5
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	264
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Not specified



NS-23





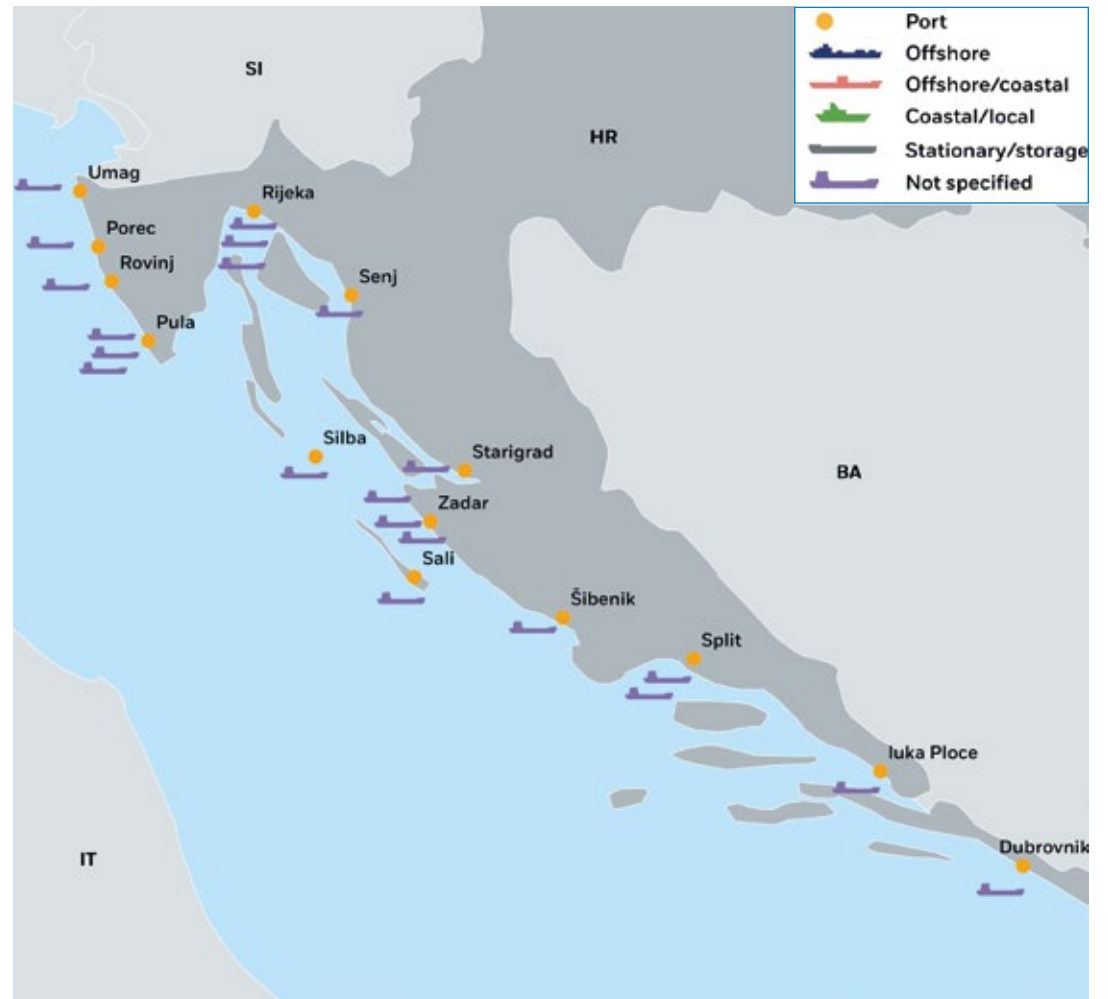
CROATIA

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Ministry of Maritime Affairs, Transport and Infrastructure, Ministry of Environmental and Nature Protection

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Dubrovnik
- Luka Ploče
- Poreč
- Pula
- Rijeka
- Rovinj
- Sali
- Senj
- Šibenik
- Silba
- Split
- Starigrad
- Umag
- Zadar



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

No information provided.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

No information provided.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

No information provided.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

No information provided.

4. REGIONAL AND BILATERAL AGREEMENTS

No information provided.

5. DRILLS AND EXERCISES

No information provided.



**ECO I**

LOCATION	Pula
OPERATIONS	Not specified

VESSEL

Class	Oil recovery vessel
LOA (m)	14.7
Breadth (m)	Not specified
Draught (m)	Not specified
GT (tonnes)	Not specified
Average speed (kn)	8
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

ECO II

LOCATION	Rijeka
OPERATIONS	Not specified

VESSEL

Class	Oil recovery vessel
LOA (m)	14.7
Breadth (m)	Not specified
Draught (m)	Not specified
GT (tonnes)	Not specified
Average speed (kn)	8
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

ECO III

LOCATION	Rijeka
OPERATIONS	Not specified

VESSEL

Class	Oil recovery vessel
LOA (m)	14.7
Breadth (m)	Not specified
Draught (m)	Not specified
GT (tonnes)	Not specified
Average speed (kn)	8
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

ECO 13/1

LOCATION	Luka Ploče
OPERATIONS	Not specified

VESSEL

Class	Oil recovery vessel
LOA (m)	13.25
Breadth (m)	4.4
Draught (m)	0.85
GT (tonnes)	Not specified
Average speed (kn)	25
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

ECO 13/2

LOCATION	Šibenik
OPERATIONS	Not specified

VESSEL

Class	Oil recovery vessel
LOA (m)	13.25
Breadth (m)	4.4
Draught (m)	0.85
GT (tonnes)	Not specified
Average speed (kn)	25
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

ECO 13/3

LOCATION	Zadar
OPERATIONS	Not specified

VESSEL

Class	Oil recovery vessel
LOA (m)	13.1
Breadth (m)	4.4
Draught (m)	1.3
GT (tonnes)	Not specified
Average speed (kn)	25
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

**ECO 13/4**

LOCATION	Rijeka
OPERATIONS	Not specified

VESSEL

Class	Oil recovery vessel
LOA (m)	13.1
Breadth (m)	4.4
Draught (m)	1.08
GT (tonnes)	Not specified
Average speed (kn)	25
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

ECO 13/5

LOCATION	Split
OPERATIONS	Not specified

VESSEL

Class	Oil recovery vessel
LOA (m)	13.1
Breadth (m)	4.4
Draught (m)	1.08
GT (tonnes)	Not specified
Average speed (kn)	25
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

INKOCLEAN EKO C1

LOCATION	Split
OPERATIONS	Not specified

VESSEL

Class	Oil recovery vessel
LOA (m)	9.5
Breadth (m)	3.8
Draught (m)	0.75
GT (tonnes)	Not specified
Average speed (kn)	7
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

INKOCLEAN EKO C2

LOCATION	Dubrovnik
OPERATIONS	Not specified

VESSEL

Class	Oil recovery vessel
LOA (m)	9.5
Breadth (m)	3.8
Draught (m)	0.75
GT (tonnes)	Not specified
Average speed (kn)	7
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

RH 1 ZD

LOCATION	Sali
OPERATIONS	Not specified

VESSEL

Class	Search and rescue vessel
LOA (m)	12.2
Breadth (m)	4.5
Draught (m)	Not specified
GT (tonnes)	Not specified
Average speed (kn)	24
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

RH 3 ST

LOCATION	Zadar
OPERATIONS	Not specified

VESSEL

Class	Search and rescue vessel
LOA (m)	14.45
Breadth (m)	-
Draught (m)	Not specified
GT (tonnes)	Not specified
Average speed (kn)	22
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

**RH 11 ZD**

LOCATION	Zadar
OPERATIONS	Not specified

VESSEL

Class	Search and rescue vessel
LOA (m)	10.9
Breadth (m)	4.2
Draught (m)	Not specified
GT (tonnes)	Not specified
Average speed (kn)	25
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

RH 6 ZD

LOCATION	Starigrad
OPERATIONS	Not specified

VESSEL

Class	Search and rescue vessel
LOA (m)	10.5
Breadth (m)	3.7
Draught (m)	Not specified
GT (tonnes)	Not specified
Average speed (kn)	22
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

RH 4 ZD

LOCATION	Silba
OPERATIONS	Not specified

VESSEL

Class	Search and rescue vessel
LOA (m)	8.7
Breadth (m)	3.05
Draught (m)	Not specified
GT (tonnes)	Not specified
Average speed (kn)	22
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

RH 3 SE NEHAJ

LOCATION	Senj
OPERATIONS	Not specified

VESSEL

Class	Search and rescue vessel
LOA (m)	12.7
Breadth (m)	3.9
Draught (m)	0.9
GT (tonnes)	15
Average speed (kn)	20
Age of vessel	11
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	No
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

RH 1 PU

LOCATION	Pula
OPERATIONS	Not specified

VESSEL

Class	Search and rescue vessel
LOA (m)	14
Breadth (m)	4.6
Draught (m)	Not specified
GT (tonnes)	16.73
Average speed (kn)	20
Age of vessel	20
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

RH 10 PU

LOCATION	Umag
OPERATIONS	Not specified

VESSEL

Class	Search and rescue vessel
LOA (m)	9.5
Breadth (m)	3.05
Draught (m)	Not specified
GT (tonnes)	5.8
Average speed (kn)	28
Age of vessel	8
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified



RH 5 PU

LOCATION	Poreč
OPERATIONS	Not specified

VESSEL

Class	Search and rescue vessel
LOA (m)	11.3
Breadth (m)	3.75
Draught (m)	Not specified
GT (tonnes)	10.81
Average speed (kn)	25
Age of vessel	20
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

RH 9 PU

LOCATION	Rovinj
OPERATIONS	Not specified

VESSEL

Class	Search and rescue vessel
LOA (m)	6.7
Breadth (m)	2.5
Draught (m)	Not specified
GT (tonnes)	2.48
Average speed (kn)	23
Age of vessel	8
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified

RH 2 PU

LOCATION	Pula
OPERATIONS	Not specified

VESSEL

Class	Search and rescue vessel
LOA (m)	6.7
Breadth (m)	2.5
Draught (m)	Not specified
GT (tonnes)	2.48
Average speed (kn)	23
Age of vessel	8
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- Not specified





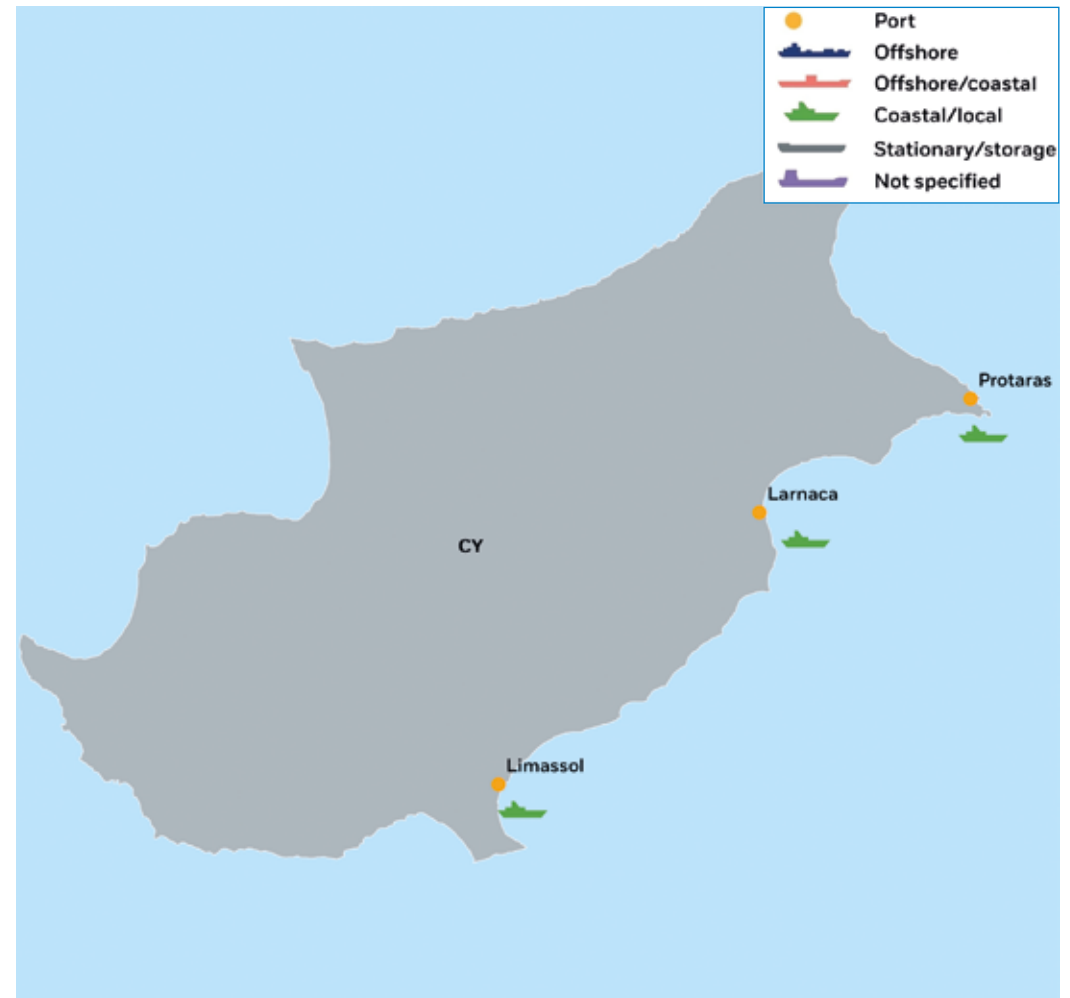
CYPRUS

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Department of Fisheries & Marine Research (DFMR), under the Ministry of Agriculture, Natural Resources and Environment

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Larnaca
- Limassol
- Protaras



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

The Department of Fisheries and Marine Research (DFMR) of the Ministry of Agriculture and Natural Resources is responsible for oil spill control and response at the national level and for the setting up of emergency response centers (ERCs) as follows:

The Department of Fisheries and Marine Research Headquarters responds to oil spill accidents, activates the National Contingency Plan and if necessary enforces the Sub-regional Agreement between Cyprus, Israel, and Egypt to combat oil spills.

In case of larger oil spills which cannot be dealt with the national equipment and resources, the Department of Merchant Shipping is responsible to co-ordinate for international and EU assistance. Also, the Department of Merchant Shipping will liaise with EMSA in order to contract oil recovery services.

It is noted that Cyprus does not own specialized or dedicated anti-pollution vessels.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

The Cyprus National Authorities also have in their possession 1 550 m of open sea boom, 1 850 m of harbour boom, 600 m of coast boom, 10 dispersants spraying units, 11 skimmers units,

approximately 22 000 litres of Oil Dispersants, 6 Oil Holding Tank Units, 3 Submersible pump units, 4 pressure steam cleaner units, 5 Oil/Water Separator Units, 3 Generating Sets, Oil Sorbents, Vehicles, Portable Hydraulic Winches, 3 Water Pumps, and 1 Vacuum Cleaner.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

Cyprus oil refinery, BP and the cement factories all maintain stocks of boom, dispersants, skimmers and sorbents to varying degrees. A number of private contractors offer spill response equipment including dispersant spraying vessels. However, no information is presently available regarding vessel details. There is no present update on the equipment available through private resources.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

Several minor spills have occurred with an appropriate clean-up.

4. REGIONAL AND BILATERAL AGREEMENTS

- Barcelona Convention
- A trilateral agreement and subregional contingency plan with Egypt & Israel

5. DRILLS AND EXERCISES

On 2 September 2011, a boom deployment drill was performed at the Vassilikos electric power plant.

On 6 October 2011, a national oil spill response exercise with the cooperation of EMSA was held.

**ALKYON**

LOCATION	Larnaca
OPERATIONS	Coastal

VESSEL

Class	Multipurpose vessel
LOA (m)	11.58
Breadth (m)	3.85
Draught (m)	Not Specified
GT (tonnes)	Not Specified
Average speed (kn)	18
Age of vessel	25
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Dispersant sprays
- Transportation of response personnel
- Equipment and products

AMFITRITI

LOCATION	Protaras
OPERATIONS	Coastal

VESSEL

Class	Multipurpose vessel
LOA (m)	11.76
Breadth (m)	3.85
Draught (m)	Not Specified
GT (tonnes)	Not Specified
Average speed (kn)	18
Age of vessel	15
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Dispersant sprays
- Transportation of response personnel
- Equipment and products

GORGO

LOCATION	Limassol
OPERATIONS	Coastal

VESSEL

Class	Patrol/Navy Vessel
LOA (m)	12.7
Breadth (m)	4.26
Draught (m)	Not Specified
GT (tonnes)	Not Specified
Average speed (kn)	18
Age of vessel	13
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Dispersant sprays
- Transportation of response personnel
- Equipment and products





DENMARK

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Soevaerrnets Operative Kommando (SOK)
(Danish Royal Navy)

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Copenhagen
- Frederikshavn
- Korsoer



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

The Royal Danish Navy owns and operates seven specialized oil spill response vessels. These are equipped with a variety of booms, skimmers, pumps and other accessories and are stationed at centrally-located naval bases. Three dedicated storage barges are also kept on standby for emergency use. Further barge capacity can be chartered in the local shipping market. Special spill response vessels primarily carry out the combating operations at sea together with other ships from the Royal Danish Navy, the Naval Home Guard, the Royal Danish Administration of Navigation and Hydrography, private tug companies, etc. as well as aircrafts from the Royal Danish Airforce.

For combating oil pollution at sea the Danish contingency organisation is based on two different ways of procedures, both approved by the Government:

- The first way is to remove the oil from the surface of the sea by mechanical means. The Danish response capability is prepared for that and is the primary means of combating a pollution
- The second way of procedure is to combat an oil spill by dispersants. Dispersants are generally not used and only if there is a valid reason for doing so.

According to the Act of the Protection of the Marine Environment only the Danish EPA can grant permission to use dispersants.

There are no stock of dispersants in Denmark. Combating operations on shore are primarily carried out by the Danish Emergency Management Agency, local authorities, etc.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

- 6 Diana Class, 2 x 150 m Expandi Coastal
- 9 MHV 900 Class. 330 m Ro-Boom 1 300
- 1 MHV 851 Class. 330 m Ro-Boom 1300
- Nordsøen, 330 m Ro-Boom 1300
- General sweeping equipment and shallow water sweeping gear
- In process of acquiring stand alone Containerized Oil Spill Recovery System - COSRS with 200 m HDB 1800 from LAMOR

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

It is possible that private tug and salvage companies might become involved in a response operation, especially if there are salvage aspects to the incident. Though there is an internationally significant manufacturer of spill response equipment located in the country (Ro-clean DESMI), there are no specialised spill clean-up contractors that would operate at sea in Danish waters. Private firms are involved in off-loading oil from recovery vessels or in shoreline clean-up operations. Concerning offshore activities the oil drilling and oil producing companies, are obligated to have their own contingency

organisation and combating equipment, for starting combating in case of an oil spill or a blow-out. These plans must be approved by the Danish EPA.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

- FU SHAN HAI (2003), 1800 tonnes of heavy fuel + 110 diesel oil lubricants
- Prestige (2002)
- BALTIC CARRIER (2001), 2 700 tonnes of heavy fuel oil

4. REGIONAL AND BILATERAL AGREEMENTS

- Bonn Agreement
- Helsinki Convention
- Copenhagen Agreement
- DenGer Agreement with Germany covering the Wadden Sea and the southern Baltic Sea
- Bilateral agreement with Canada covering Baffin Bay, Davis Strait, etc.
- Member of the European Community Task Force
- DenGerNeth Agreement
- SweDenGer Agreement

5. DRILLS AND EXERCISES

Defence Command Denmark conduct between five and six exercise every year in cooperation with municipalities, the police and DEMA. International exercises in the Danish area of operations will be conducted together with the municipalities in the area.



A561 GUNNAR SEIDENFADEN

LOCATION	Korsoer
OPERATIONS	Offshore

VESSEL

Class	Offshore supply/Ice Class
LOA (m)	56
Breadth (m)	12.3
Draught (m)	4.59
GT (tonnes)	1660
Average speed (kn)	12
Age of vessel	34
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	28
Total storage capacity (m ³)	310.7
Heated storage (m ³)	219.2

ANTI-POLLUTION EQUIPMENT

- 3 x 200 Expandi 7 000 belt skimmer
- Terminator
- Destroil 250
- Ro-Sweep
- Grappe

A560 GUNNAR THORSEN

LOCATION	Frederikshavn
OPERATIONS	Offshore

VESSEL

Class	Offshore supply/Ice Class
LOA (m)	56
Breadth (m)	12.3
Draught (m)	4.59
GT (tonnes)	1660
Average speed (kn)	12
Age of vessel	34
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	28
Total storage capacity (m ³)	310.7
Heated storage (m ³)	219.2

ANTI-POLLUTION EQUIPMENT

- 3 x 200 Expandi 7 000 belt skimmer
- Terminator
- Destroil 250
- Ro-Sweep
- Grappe

A563 MARIE MILJOE

LOCATION	Korsoer
OPERATIONS	Coastal

VESSEL

Class	Sea Truck
LOA (m)	29.75
Breadth (m)	8.02
Draught (m)	2.38 (at full load)
GT (tonnes)	247
Average speed (kn)	9
Age of vessel	36
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	4
Total storage capacity (m ³)	75
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 200 m Ro-Boom ocean
- Fixed mounted LAMOR sweep system on starboard side
- DESMI DOP 250 pump

A562 METTE MILJOE

LOCATION	Frederikshavn
OPERATIONS	Coastal

VESSEL

Class	Sea Truck
LOA (m)	29.75
Breadth (m)	8.02
Draught (m)	2.38 (at full load)
GT (tonnes)	247
Average speed (kn)	9
Age of vessel	36
IMO No.	-

EQUIPMENT

Crane	yes
Crane capability (tonnes)	4
Total storage capacity (m ³)	75
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 200 m Ro-Boom ocean
- Fixed mounted LAMOR sweep system on starboard side
- DESMI DOP 250 pump

MS201

LOCATION	Korsoer
OPERATIONS	Storage

VESSEL

Class	Barge
LOA (m)	24
Breadth (m)	8
Draught (m)	2.20 (at full load)
GT (tonnes)	Not specified
Average speed (kn)	All barges must be towed or taken alongside. Towing speed app. 10 knots
Age of vessel	35
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	300
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Storage only

MS202

LOCATION	Copenhagen
OPERATIONS	Storage

VESSEL

Class	Barge
LOA (m)	24
Breadth (m)	8
Draught (m)	2.20 (at full load)
GT (tonnes)	Not specified
Average speed (kn)	All barges must be towed or taken alongside. Towing speed app. 10 knots
Age of vessel	35
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	300
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Storage only

**MS203**

LOCATION	Frederikshavn
OPERATIONS	Storage

VESSEL

Class	Barge
LOA (m)	24
Breadth (m)	8
Draught (m)	2.20 (at full load)
GT (tonnes)	Not specified
Average speed (kn)	All barges must be towed or taken alongside. Towing speed app. 10 kn
Age of vessel	35
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	300
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Storage only

MILJOE 103

LOCATION	Korsoer
OPERATIONS	Coastal

VESSEL

Class	Shallow water vessel
LOA (m)	16.38
Breadth (m)	4.6
Draught (m)	0.65
GT (tonnes)	30
Average speed (kn)	20
Age of vessel	7
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- LAMOR skimmer

MILJOE 102

LOCATION	Frederikshavn
OPERATIONS	Coastal

VESSEL

Class	Shallow water vessel
LOA (m)	16.4
Breadth (m)	4.3
Draught (m)	1.9
GT (tonnes)	16
Average speed (kn)	21
Age of vessel	38
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	0.4
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Minimax10

MILJOE 101

LOCATION	Korsoer
OPERATIONS	Coastal

VESSEL

Class	Shallow water vessel
LOA (m)	16.4
Breadth (m)	4.3
Draught (m)	1.9
GT (tonnes)	16
Average speed (kn)	21.0
Age of vessel	38
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	0.4
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Minimax 10





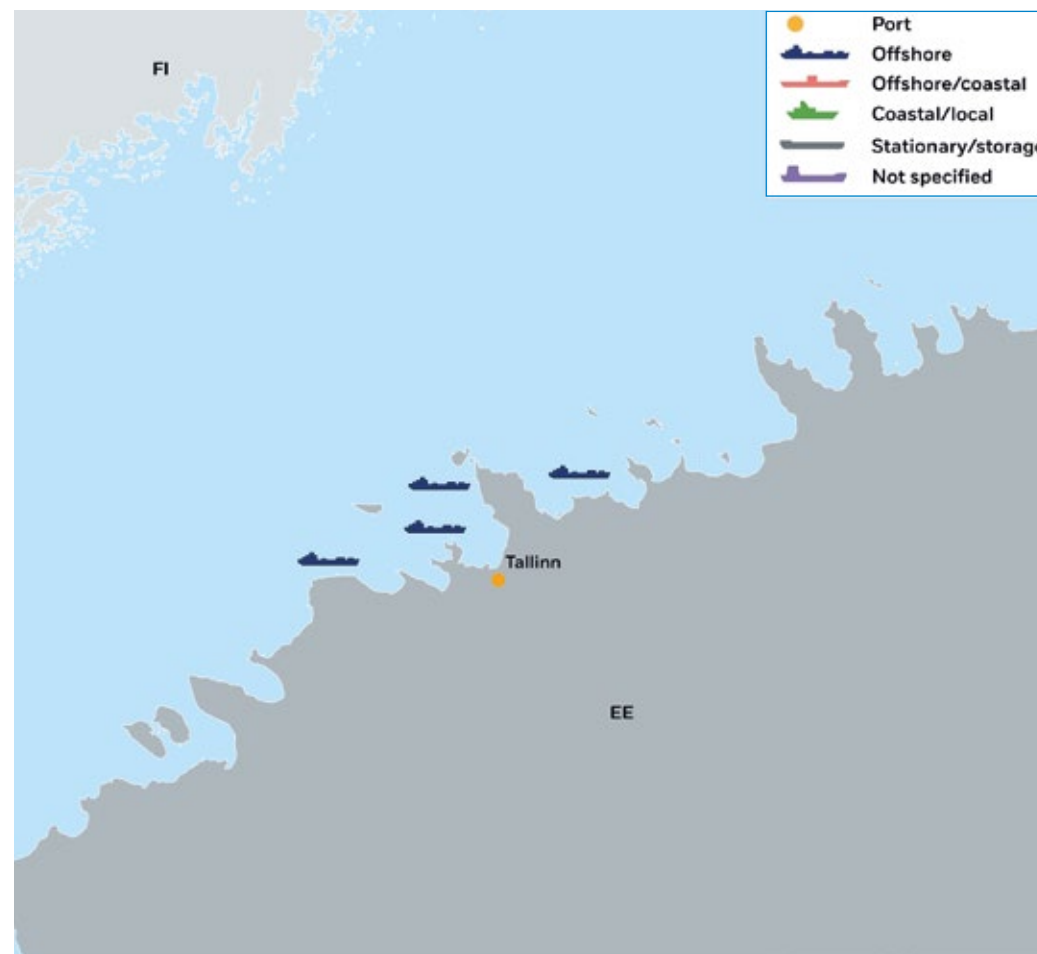
ESTONIA

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Estonia Police and Border Guard Board
under the Ministry of the Interior

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Pärnu
- Tallinn



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

Equipment including booms, skimmers, hot water cleaners and absorbents is stocked in Tallinn.

Estonian Police and Border Guard Board, responsible for oil spill combating has:

- 3 000 m of boom for coastal waters
- 2 000 m of boom for open sea

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

No information provided.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

The major ports have their own recovery equipment. Muuga, the biggest oil terminal has 3 350 m of oil booms, 1 offshore LAMOR brush skimmer, 3 LAMOR Minimax brush skimmers, 1 boom-layer and three smaller oil combating vessels.

A private contractor based in Pärnu has a significant amount of clean-up equipment for coastal waters.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

- Tanker KIHNU (in 1993) Kopli peninsula area, 85 t of light fuel oil.
- Tanker ALAMBRA (in 2000) 250 t of crude oil, Muuga Harbour.

4. REGIONAL AND BILATERAL AGREEMENTS

- Helsinki Convention
- Bilateral Agreement with the Finland for the Gulf of Finland area
- Agreement Between Government of Latvia and the Government of the of Estonia on Co-operation in the Combating of the Effects of Marine Pollution Incidents

5. DRILLS AND EXERCISES

- Exercise “Clean Sea” (Balex Charly), annual bilateral exercise with Finland in the Gulf of Finland
- Balex Delta

**PVL-202 KATI**

LOCATION	Tallinn (operated by Police and Border Guard Board)
OPERATIONS	Offshore

VESSEL

Class	Offshore supply
LOA (m)	40
Breadth (m)	6.6
Draught (m)	3
GT (tonnes)	471
Average speed (kn)	12
Age of vessel	45
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2
Total storage capacity (m ³)	113
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- LAMOR brush skimmer
- 2 x 80 m³/h (summer)
- 70 m³/h (winter)
- 200 m heavy duty boom

PVL-101 KINDRAL KURVITS

LOCATION	Tallinn (operated by Police and Border Guard Board)
OPERATIONS	Offshore

VESSEL

Class	Offshore supply/Ice Class
LOA (m)	63.9
Breadth (m)	10.2
Draught (m)	3.6 (max 4.2)
GT (tonnes)	1 053
Average speed (kn)	11 (max 15)
Age of vessel	3
IMO No.	9588770

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10
Total storage capacity (m ³)	100
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- LAMOR brush skimmer
- 2 x 200 m³/h (summer)
- 60 m³/h (winter)
- 600 m heavy duty boom

EVA-316

LOCATION	Summer-Tallinn Winter-Pärnu (Operated by Estonian Maritime Administration)
OPERATIONS	Offshore

VESSEL

Class	Offshore supply/Ice Class
LOA (m)	60
Breadth (m)	12.2
Draught (m)	5
GT (tonnes)	907
Average speed (kn)	11
Age of vessel	25
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	20
Total storage capacity (m ³)	196
Heated storage (m ³)	Yes

ANTI-POLLUTION EQUIPMENT

- LAMOR brush skimmer
- 2 x 200 m³/h (summer)
- 2 x 50 m³/h (winter)

SEKTORI

LOCATION	Tallinn (owner Finstaship, operated by Estonian Maritime Administration)
OPERATIONS	Offshore

VESSEL

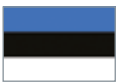
Class	Offshore supply/Ice Class
LOA (m)	33
Breadth (m)	7.9
Draught (m)	2.9
GT (tonnes)	215
Average speed (kn)	9.0
Age of vessel	26
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	5
Total storage capacity (m ³)	50
Heated storage (m ³)	Yes

ANTI-POLLUTION EQUIPMENT

- Lori brush skimmers 2 x25 m³/h



PVL-202 KATI



PVL-101 Kindral Kurvits



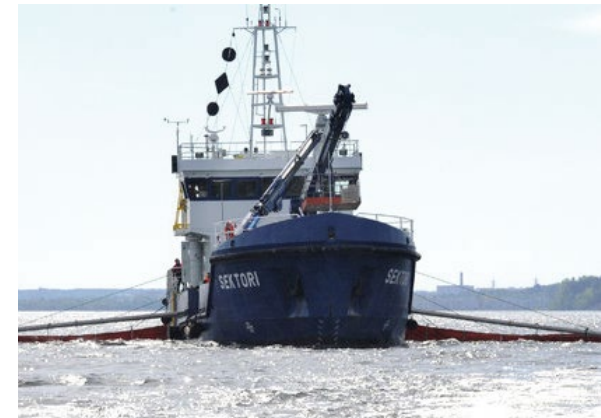
EVA-316



PVL-202 KATI



PVL-202 KATI



SEKTORI





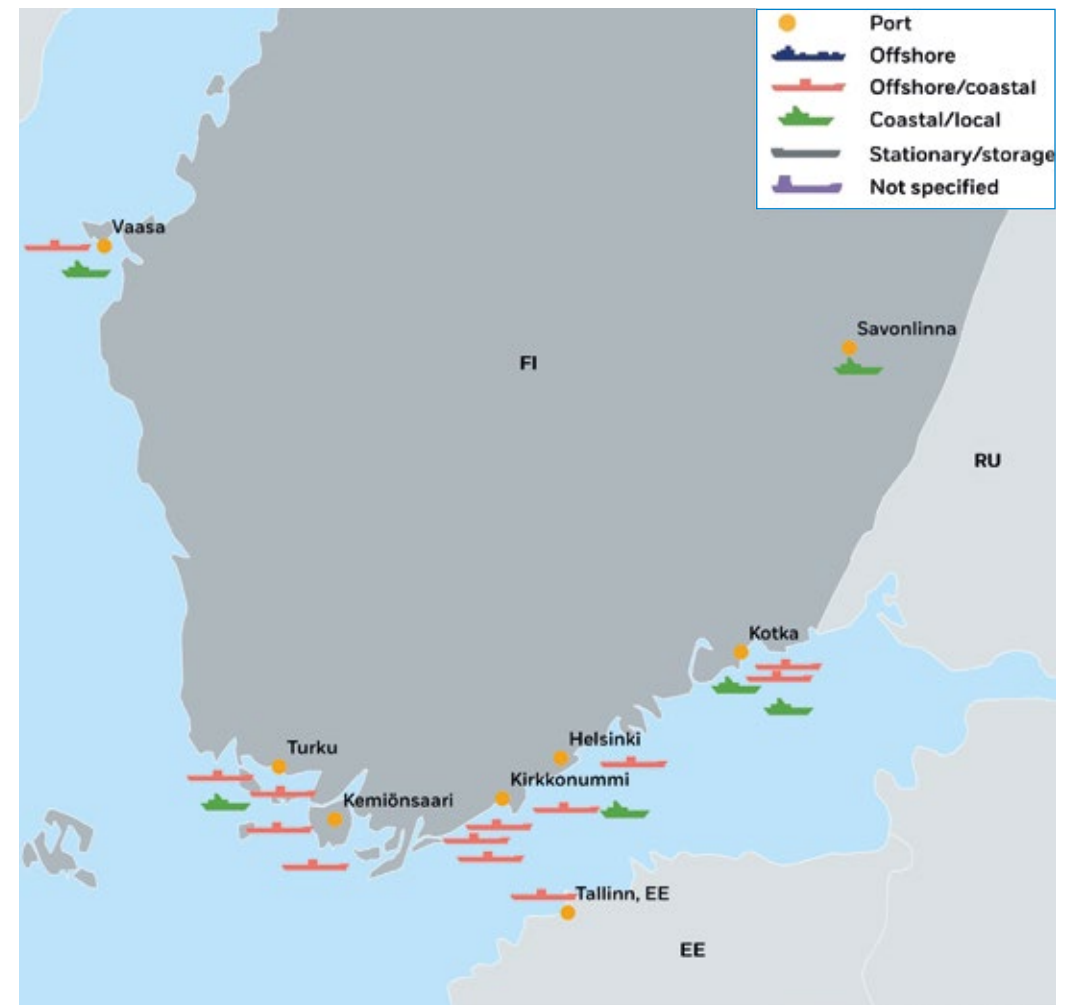
FINLAND

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Ministry of the Environment is responsible for general guidance and for the development of oil and chemical spill prevention and response. The Finnish Environment Institute (SYKE) is the competent marine pollution response authority.

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Helsinki
- Kemiönsaari
- Kirkkonummi
- Kotka
- Maarian-hamina
- Savonlinna
- Turku
- Vaasa



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

The Finnish oil spill response fleet comprises 18 government-owned and operated or contracted ship-sized recovery vessels. In addition, Åland Islands has one ship sized recovery vessel. It should be noted that only one of these vessels is classed to operate outside the Baltic Sea and that requests to send the vessel abroad are evaluated technically on a case by case basis.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

Municipalities also have a number of medium and small-size vessels that can be used in recovery operations. These include over 100 specialised oil-combating boats and rafts in the 10-20 m length range as well as hundreds of smaller, non specialised boats. Among the municipal boats, 32 are permanently outfitted with sweeping arm stiff-brush oil recovery systems. Ten of the ship-size vessels are suitable for operating in open waters/high seas and five in coastal waters. All of the vessels are equipped with sweeping arm oil recovery systems with ability to recover heavy viscous oils and have heated oil storage capacity (three biggest 800, 1 250 and 1 400 m³). Total storage capacity of 16 vessels is 4 500 m³ and total sweeping performance is 19.8 km² per 24 hours at vessel velocity of 2 knots. That total capacity will be used in any place of Finland's response region after three days.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

Private oil spill response vessels have contact with Government (are included in the list of vessels) or with Rescue Services (vessel AHTO).

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

Significant Oil Spill Incidents:

- ANTONIO GRAMSCI (1979), 5 000–6 000 t of crude oil

4. REGIONAL AND BILATERAL AGREEMENTS

- Helsinki Convention
- Copenhagen Agreement
- Bilateral agreements exist with the Russian Federation and with Estonia
- Arctic oil spill response agreement

5. DRILLS AND EXERCISES

Finland carries out annually several exercises with neighbouring countries - bi - and/or trilateral exercise with Estonia and Russia in Gulf of Finland area, and exercise within the framework of Copenhagen Agreement.

In addition national exercises are carried out both at sea and in the coastal area.

**HALLI**

LOCATION	Turku
OPERATIONS	Offshore and coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	61.5
Breadth (m)	12.8
Draught (m)	4
GT (tonnes)	2100
Average speed (kn)	10
Age of vessel	27
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	6
Total storage capacity (m ³)	1400
Heated storage (m ³)	1400

ANTI-POLLUTION EQUIPMENT

- 2 sweep arms (40 m sweeping width)
- 3 x 200 m of 2 m high Ro-Boom
- 3 x 200 m of 1.5 m high Ro-Boom

HYLJE

LOCATION	Kirkkonummi
OPERATIONS	Offshore and coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	64.3
Breadth (m)	12.5
Draught (m)	3
GT (tonnes)	1835
Average speed (kn)	10
Age of vessel	33
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	5.5
Total storage capacity (m ³)	900
Heated storage (m ³)	900

ANTI-POLLUTION EQUIPMENT

- 2 sweep arms (35 m sweeping width)
- 4 x 200 m of 2 m high Ro-Boom

KUMMELI

LOCATION	Savonlinna
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	28.2
Breadth (m)	7.9
Draught (m)	2.45
GT (tonnes)	197
Average speed (kn)	7
Age of vessel	29
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2.5
Total storage capacity (m ³)	70
Heated storage (m ³)	70

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arms (25 m sweeping width)

LETTO

LOCATION	Helsinki
OPERATIONS	Offshore and coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	42.7
Breadth (m)	12.2
Draught (m)	3.8
GT (tonnes)	735
Average speed (kn)	7
Age of vessel	34
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	20
Total storage capacity (m ³)	42.7
Heated storage (m ³)	42.7

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arms (30 m sweeping width)
- 3 x 200 m of 1,5 m high LAMOR Boom)

LINJA

LOCATION	Vaasa
OPERATIONS	Offshore and coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	34.9
Breadth (m)	9
Draught (m)	2.8
GT (tonnes)	298
Average speed (kn)	7
Age of vessel	26
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10
Total storage capacity (m ³)	77.4
Heated storage (m ³)	77.4

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arms (23 m sweeping width)

LOUHI

LOCATION	Kirkkonummi
OPERATIONS	Offshore and coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	71.4
Breadth (m)	14.5
Draught (m)	5.2
GT (tonnes)	3 450
Average speed (kn)	15
Age of vessel	4
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	18,8 t, 5,5 t and 1
Total storage capacity (m ³)	1 250
Heated storage (m ³)	1 250

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arms (45 m sweeping width)

**MERIKARHU**

LOCATION	Helsinki
OPERATIONS	Offshore and Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	58
Breadth (m)	11
Draught (m)	4.7
GT (tonnes)	1100
Average speed (kn)	11
Age of vessel	20
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	5
Total storage capacity (m ³)	40 + oil sack station
Heated storage (m ³)	40

ANTI-POLLUTION EQUIPMENT

- 3 x 200 m of 1,5 m high LAMOR boom

OILI I

LOCATION	Helsinki
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	24.5
Breadth (m)	6.6
Draught (m)	2.1
GT (tonnes)	114
Average speed (kn)	7
Age of vessel	32
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10
Total storage capacity (m ³)	80
Heated storage (m ³)	80

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arms (21 m sweeping width)

OILI II

LOCATION	Turku
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	24.5
Breadth (m)	6.6
Draught (m)	2.1
GT (tonnes)	114
Average speed (kn)	7
Age of vessel	32
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10
Total storage capacity (m ³)	80
Heated storage (m ³)	80

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arms (21 m sweeping width)

OILI III

LOCATION	Kotka
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	24.5
Breadth (m)	6.6
Draught (m)	2.1
GT (tonnes)	116
Average speed (kn)	7
Age of vessel	32
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10
Total storage capacity (m ³)	80
Heated storage (m ³)	80

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arms (21 m sweeping width)

OILI IV

LOCATION	Vaasa
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	19.9
Breadth (m)	6.5
Draught (m)	2
GT (tonnes)	71
Average speed (kn)	7
Age of vessel	28
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	8.2
Total storage capacity (m ³)	30
Heated storage (m ³)	30

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arms (21 m sweeping width)

SEILI

LOCATION	Kotka
OPERATIONS	Offshore and Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	50.5
Breadth (m)	12.2
Draught (m)	3.8
GT (tonnes)	735
Average speed (kn)	10
Age of vessel	35
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	20
Total storage capacity (m ³)	196
Heated storage (m ³)	196

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arms (30 m sweeping width)



SVÄRTAN

LOCATION	Maarian-hamina
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	24
Breadth (m)	6.6
Draught (m)	2.1
GT (tonnes)	111
Average speed (kn)	8
Age of vessel	22
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	5
Total storage capacity (m ³)	52
Heated storage (m ³)	52

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arms (21 m sweeping width)

TURSAS

LOCATION	Turku
OPERATIONS	Offshore and Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	61.45
Breadth (m)	10.2
Draught (m)	4.85
GT (tonnes)	1 300
Average speed (kn)	11
Age of vessel	28
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	26
Total storage capacity (m ³)	100+ oil sack station
Heated storage (m ³)	100

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arms (30 m sweeping width)

UISKO

LOCATION	Turku
OPERATIONS	Offshore and Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	61.45
Breadth (m)	10.2
Draught (m)	4.85
GT (tonnes)	1 300
Average speed (kn)	11
Age of vessel	27
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	26
Total storage capacity (m ³)	100+oil sack station
Heated storage (m ³)	100

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arms (30 m sweeping width)

TURVA

LOCATION	Kirkkonummi
OPERATIONS	Offshore and Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	95.9
Breadth (m)	17.4
Draught (m)	5.5
GT (tonnes)	4 000
Average speed (kn)	13
Age of vessel	2
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	15
Total storage capacity (m ³)	1200
Heated storage (m ³)	1200

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arms (45 m sweeping width)

OTAVA

LOCATION	Kotka
OPERATIONS	Offshore and Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	34.9
Breadth (m)	9
Draught (m)	2.75
GT (tonnes)	342
Average speed (kn)	10
Age of vessel	1
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2
Total storage capacity (m ³)	100
Heated storage (m ³)	100

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arms (25 m sweeping width)

STELLA

LOCATION	Kemiönsaari
OPERATIONS	Offshore and Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	33
Breadth (m)	9.4
Draught (m)	2.8
GT (tonnes)	300
Average speed (kn)	10.0
Age of vessel	37
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10
Total storage capacity (m ³)	100
Heated storage (m ³)	100

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arms (25 m sweeping width)



Hylje



Letto



Louhi



Oili III





FRANCE

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Maritime Prefet, is responsible for the response at sea during incidents.

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Boulogne
- Brest
- Cherbourg
- Toulon



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

No information provided.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

Stockpiles are located in different places along the French coastline such as Dunkerque, Le Havre, Brest, Saint-Nazaire, Nantes, Le Verdon, Bordeaux, Sete, Marseille and Ajaccio.

French Navy stockpiles : Cherbourg, Brest, Toulon. Coastal and port stockpiles.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

The French navy has contracts with private companies along the coasts, in order to benefit from heavy port tugs in emergency situations. Some of them have pollution response capacities (spraying dispersants) and could be employed with OSRV (because are tugs, some have cranes, ...)

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

- TORREY CANYON (1967), 121 000 t crude oil
- AMOCO CADIZ (1978), 227 000 t
- GINO (1979), 32 000 t carbon black
- TANIO (1980), 6 000 t heavy oil
- AMAZZONE (1988), 2 100 t crude oil

- HAVEN (1991), 144 000 t crude oil
- ERIKA (1999), 19 000-20 000 t heavy fuel oil
- PRESTIGE (2002) 64 000 tons heavy fuel oil No 2
- Total oil refinery, Donges (Atlantic coast) 2008 : 400 t IFO380.
- CMA-CGM STRAUSS, Mediterranean sea : 180 t IFO380.
- Oil recovery from wrecks : PETER SIF (wreckage 1979 - three operations : 2006, 2007, 2008 ; 11 t recovered), LAPLACE (wreckage 1949 - two operations, 2009 and 2010 ; 120 t recovered).

4. REGIONAL AND BILATERAL AGREEMENTS

- Barcelona Convention
- Manche Plan
- Mediplan
- RAMOGE
- Member of the European Community Task Force
- Quadrapartite Plan
- Lisbon Agreement (signed but not approved, consequently not into force)
- Bonn Agreement
- Biscaye Plan
- Lion Plan

5. DRILLS AND EXERCISES

One exercise per year and for each coast Channel - North sea, Mediterranean and Atlantic, consequently three exercises per year for France.

The exercises are made in cooperation with other Member State.

**AILETTE**

LOCATION	Toulon
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	53
Breadth (m)	13
Draught (m)	6.75
GT (tonnes)	1 000
Average speed (kn)	14
Age of vessel	29
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	23
Total storage capacity (m ³)	480
Heated storage (m ³)	Yes

ANTI-POLLUTION EQUIPMENT

- 2 skimmers
- 1 sweeping arm
- Two 9 m dispersant spraying arms
- 300 m high sea booms
- 1 transfer pump 300m³/h

SAPEUR

LOCATION	Brest
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	75.54
Breadth (m)	16.6
Draught (m)	8
GT (tonnes)	2 686
Average speed (kn)	12
Age of vessel	30
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	23
Total storage capacity (m ³)	1000
Heated storage (m ³)	Yes

ANTI-POLLUTION EQUIPMENT

- 2 skimmers
- 1 sweeping arm
- Two 9 m dispersant spraying arms
- 300 m high sea booms
- 1 transfer pump 300m³/h

JASON

LOCATION	Toulon
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	67
Breadth (m)	16
Draught (m)	7.3
GT (tonnes)	2 310
Average speed (kn)	15
Age of vessel	6
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	28
Total storage capacity (m ³)	480
Heated storage (m ³)	Yes

ANTI-POLLUTION EQUIPMENT

- 2 skimmers
- Two 12 m dispersants spraying arms
- High sea booms
- 2 pumps two 96 m³/h transfer pump
- High sea booms, 2 pumps two 96 m³/h transfer pump

ARGONAUTE

LOCATION	Brest
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	69
Breadth (m)	15.5
Draught (m)	7.3
GT (tonnes)	2 373
Average speed (kn)	15
Age of vessel	8
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	23
Total storage capacity (m ³)	Between 1.1 t/1.5 t
Heated storage (m ³)	Yes

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arm
- Two 9m dispersant spraying arms
- 2 x 300 m high sea booms
- 1 transfer pump 300m³/h
- Oil recovery capacity : 1500m³

ELAN

LOCATION	Cherbourg
OPERATIONS	Offshore

VESSEL

Class	Multipurpose vessel
LOA (m)	41.5
Breadth (m)	7.5
Draught (m)	3.3
GT (tonnes)	400
Average speed (kn)	12
Age of vessel	33
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	5.6
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

Not always on ship but can operate :

- Oil skimmer
- Booms
- Floating storage tank

ABEILLE BOURBON

LOCATION	Brest
OPERATIONS	Offshore

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	80
Breadth (m)	16.5
Draught (m)	6.5
GT (tonnes)	3 200
Average speed (kn)	19.5
Age of vessel	6
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	23
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- 4 engines 16 000 HP
- 2 propellers
- 2 sweeping arms with pump



ABEILLE LIBERTE

LOCATION	Cherbourg
OPERATIONS	Offshore

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	80
Breadth (m)	16.5
Draught (m)	6.5
GT (tonnes)	3 200
Average speed (kn)	19.5
Age of vessel	5
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	23
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- 4 engines 16 000 HP
- 2 propellers
- 2 sweeping arms with pump

ABEILLE FLANDRE

LOCATION	Toulon
OPERATIONS	Offshore

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	63.4
Breadth (m)	14.4
Draught (m)	7.3
GT (tonnes)	1 933
Average speed (kn)	17
Age of vessel	32
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	4
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- 4 engines 16 000 HP
- 2 propellers

ABEILLE LANGUEDOC

LOCATION	Boulogne
OPERATIONS	Offshore

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	63.4
Breadth (m)	14.4
Draught (m)	7.3
GT (tonnes)	1 933
Average speed (kn)	17
Age of vessel	32
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	5
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- 4 engines 12 800 HP
- 2 propellers
- 1 pump





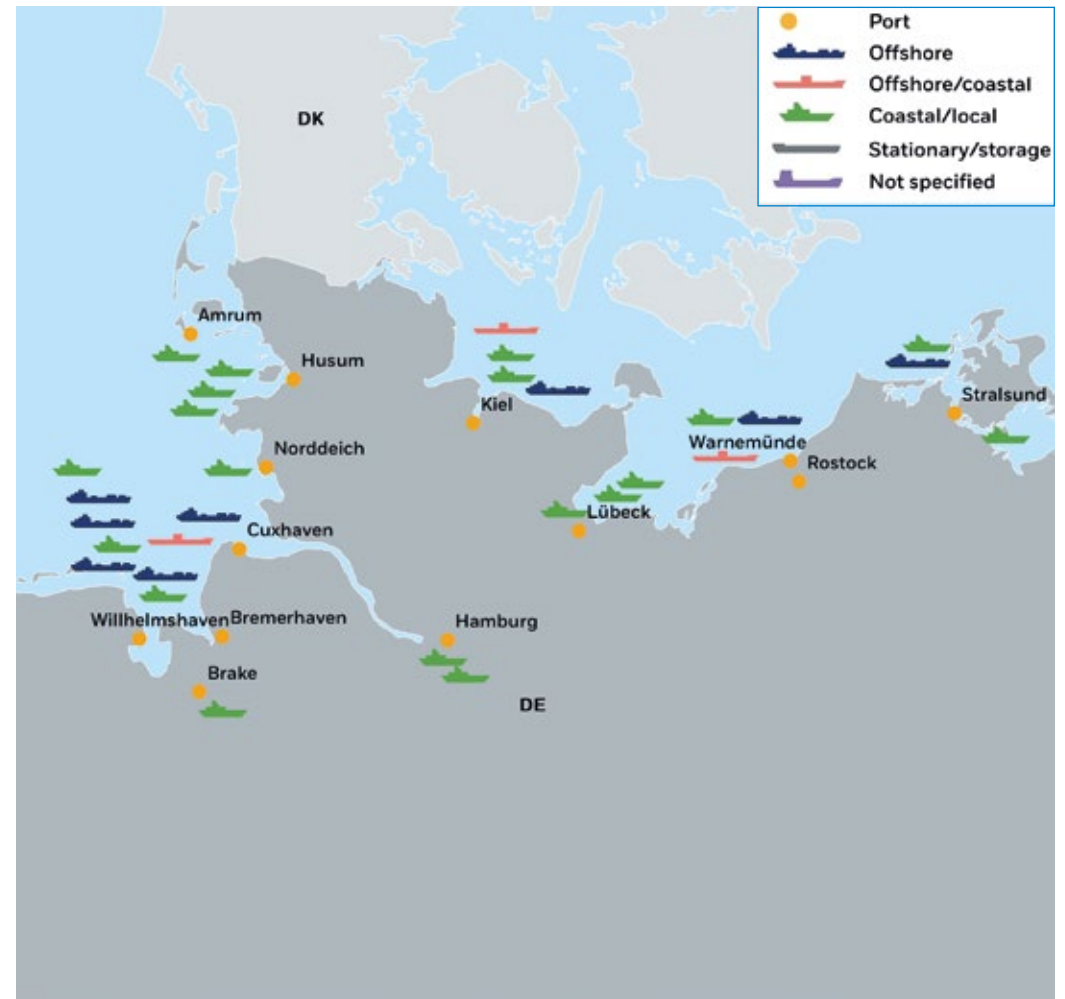
GERMANY

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Central Command for Maritime Emergencies (CCME) under the Federal Ministry of Transport, Building and Urban Development

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Amrum
- Brake
- Bremerhaven
- Cuxhaven
- Hamburg
- Husum
- Kiel
- Lübeck
- Norddeich
- Rostock
- Stralsund
- Warnemünde
- Wilhelmshaven



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

Federal depot with further equipment for the anti pollution vessels are located in Wilhelmshaven, Cuxhaven, Lübeck, Stralsund and Sassnitz.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

Federal stockpiles are located in Wilhelmshaven, Cuxhaven, Kiel. State stockpiles are located in Bremen, Bremerhaven, Cuxhaven, Flensburg, Hamburg, Heiligendamm, Hilgenriedersiel, Husum, Jever, Kiel, Lübeck, Meldorf, Nordenhamm, Rostock, Stralsund, Wilhelmshaven, Wittmund.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

There are a number of oil spill clean-up contractors in Germany, most of them are based in the major ports. These operate a number of specialised vessels and maintain equipment stockpiles relevant for spill response. While much of this equipment is held in readiness for incidents involving small ships in ports and terminals, some of it could be relevant for large spills where resources are pooled from different stockpiles. A number of the nation's recovery vessels are owned and operated under contract with the federal government. Where appropriate, private salvage companies could also be contracted to assist in response operations.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

There have been a number of small to moderate spills offshore.

4. REGIONAL AND BILATERAL AGREEMENTS

- Bonn Agreement
- Helsinki Convention
- DenGerNeth Agreement
- SweDenGer Agreement
- Bilateral Agreement with Poland for the Pomeranian Bight
- Member of the European Community Task Force

5. DRILLS AND EXERCISES

Annual drill and training plan with federal states and coastal states vessels. Drill and exercises take place 75 per/annum, in the North and Baltic sea, with all listed vessels. Including Exercises: DENGERNET, SWEDENGER, BALEC Delta, POLGER, BONNEX.

**NEUWERK**

LOCATION	Cuxhaven
OPERATIONS	Offshore

VESSEL

Class	Emergency towing vessel ETV Pollution Response Ice breaker
LOA (m)	78.91
Breadth (m)	18
Draught (m)	5.79
GT (tonnes)	3 422
Average speed (kn)	15
Age of vessel	17
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	22 t /25 m, 12,5 t /15 m
Total storage capacity (m ³)	1000
Heated storage (m ³)	1000

ANTI-POLLUTION EQUIPMENT

- 2 x 15 m sweeping arms
- Suction pumps
- Grab
- 2 x 200 high sea booms
- Deck storage tanks
- Oil/water separation unit
- 2/4 high sea fenders

NORDSEE

LOCATION	Willhelmshaven
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	131.75
Breadth (m)	23
Draught (m)	6.88
GT (tonnes)	8 785
Average speed (kn)	13
Age of vessel	37
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	20
Total storage capacity (m ³)	5400
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 2 x 22 m sweep arms
- Gravity separation system

MELLUM

LOCATION	Willhelmshaven
OPERATIONS	Offshore

VESSEL

Class	Emergency towing vessel ETV Pollution Response Ice breaker
LOA (m)	80.45
Breadth (m)	15
Draught (m)	5.78
GT (tonnes)	2 546
Average speed (kn)	16
Age of vessel	31
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	12 t /13 m, 8 t /15 m
Total storage capacity (m ³)	910
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 2 x 15 m sweep arms
- Suction pumps
- Grab
- 2 x 200 high sea booms
- Deck storage tanks
- Oil/water separation unit
- 2/4 high sea fenders

SCHARHÖRN

LOCATION	Kiel
OPERATIONS	Offshore

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	56.1
Breadth (m)	14.23
Draught (m)	5.8
GT (tonnes)	1305
Average speed (kn)	14
Age of vessel	41
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	12
Total storage capacity (m ³)	430
Heated storage (m ³)	430

ANTI-POLLUTION EQUIPMENT

- 2 x 13.5 sweep arms
- Grab
- 2 x 200 high sea booms
- Deck storage tanks
- Oil/water separation unit
- 2/4 high sea fenders

BOTTSAND

LOCATION	Warnemünde
OPERATIONS	Offshore

VESSEL

Class	Scissor-ship
LOA (m)	46.3
Breadth (m)	12
Draught (m)	3.1
GT (tonnes)	500
Average speed (kn)	10
Age of vessel	31
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	790
Heated storage (m ³)	790

ANTI-POLLUTION EQUIPMENT

- Twin hull vessel equipped with skimmers, oil/water separation unit

EVERSAND

LOCATION	Willhelmshaven
OPERATIONS	Offshore

VESSEL

Class	Scissor-ship
LOA (m)	48.7
Breadth (m)	12
Draught (m)	3.5
GT (tonnes)	900
Average speed (kn)	10.5
Age of vessel	27
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	790
Heated storage (m ³)	790

ANTI-POLLUTION EQUIPMENT

- Twin hull vessel equipped with skimmers, oil/water separation unit

**VILM**

LOCATION	Rostock / Lübeck
OPERATIONS	Offshore/coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	48.5
Breadth (m)	10.2
Draught (m)	2.6
GT (tonnes)	590
Average speed (kn)	10.2
Age of vessel	12
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1,5 t/8 m
Total storage capacity (m ³)	500
Heated storage (m ³)	500

ANTI-POLLUTION EQUIPMENT

- Lightering equipment
- 2 sweeping arms

KIEL

LOCATION	Kiel
OPERATIONS	Offshore/coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	48
Breadth (m)	9.2
Draught (m)	3
GT (tonnes)	465
Average speed (kn)	13
Age of vessel	25
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	7 t/10 m
Total storage capacity (m ³)	325
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 2 Jibs with inflatable booms
- 2 LAMOR OPC-4 over the side systems
- 2 GT 260 skimmers
- Boom-laying launch
- Oil/water separation unit

WESTENSEE

LOCATION	Bremerhaven
OPERATIONS	Offshore

VESSEL

Class	Non propelled barge
LOA (m)	48.7
Breadth (m)	27.1
Draught (m)	4.4
GT (tonnes)	967
Average speed (kn)	5
Age of vessel	27
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	1960
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Non self propelled unit for recovery in rough seas
- Skimming system
- Gravitation separation system

ARKONA

LOCATION	Stralsund
OPERATIONS	Offshore

VESSEL

Class	Emergency towing vessel ETV Pollution Response Ice breaker
LOA (m)	68.2
Breadth (m)	15.4
Draught (m)	4.5
GT (tonnes)	2 056
Average speed (kn)	13.1
Age of vessel	7
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	12.5
Total storage capacity (m ³)	430
Heated storage (m ³)	430

ANTI-POLLUTION EQUIPMENT

- 2 x 15 sweep arms
- Suction pumps
- Grab
- 2 x 200 high sea booms
- Deck storage tanks oil/water separation unit
- 2/4 high sea fenders

LEYHÖRN

LOCATION	Norddeich
OPERATIONS	Coastal

VESSEL

Class	Offshore supply
LOA (m)	39.5
Breadth (m)	8.4
Draught (m)	2.1
GT (tonnes)	Not specified
Average speed (kn)	10.5
Age of vessel	10
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0,9 t/10,5m
Total storage capacity (m ³)	200
Heated storage (m ³)	Heating system for external steam supply

ANTI-POLLUTION EQUIPMENT

- 2 Jibs with inflatable booms
- 2 LAMOR OPC-4 over the side systems
- Mobile pump equipment
- High pressure cleaner

THOR

LOCATION	Willhelmshaven
OPERATIONS	Coastal

VESSEL

Class	Scissor-ship
LOA (m)	34.65
Breadth (m)	8.2
Draught (m)	2.74
GT (tonnes)	Not specified
Average speed (kn)	9
Age of vessel	25
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	280
Heated storage (m ³)	Yes

ANTI-POLLUTION EQUIPMENT

- Twin hull oil recovery vessel, equipped with skimming system

**JANSSAND**

LOCATION	Norddeich
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	30
Breadth (m)	7
Draught (m)	1.6
GT (tonnes)	Not Specified
Average speed (kn)	9.5
Age of vessel	57
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	3,3 t / 1.9 m
Total storage capacity (m ³)	93
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 2 Jibs with inflatable booms
- 2 LAMOR LPC-2 over the side systems
- Mobile pump equipment
- High pressure cleaner
- 63 m³ in mobile storage tanks

ÖSK 1

LOCATION	Brake
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	23.1
Breadth (m)	8.1
Draught (m)	1.7
GT (tonnes)	Not specified
Average speed (kn)	10
Age of vessel	32
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	18
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- LAMOR bow collector
- Conveyor belt for high viscous oil

KNECHTSAND

LOCATION	Cuxhaven
OPERATIONS	Offshore/Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	38.5
Breadth (m)	13.2
Draught (m)	2.4
GT (tonnes)	462
Average speed (kn)	8.5
Age of vessel	17
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1,5 t / 11,5 m
Total storage capacity (m ³)	400
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Multipurpose oil skimming system
- Chemical storage tank
- Pumps
- High pressure cleaner

MPOSS

LOCATION	Hamburg
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	34.24
Breadth (m)	12.15
Draught (m)	2.35
GT (tonnes)	221
Average speed (kn)	7.5
Age of vessel	17
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	5 t /1-5 m
Total storage capacity (m ³)	300
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Multipurpose oil skimming system
- Pumps, high pressure cleaner

ODIN

LOCATION	Husum
OPERATIONS	Coastal

VESSEL

Class	Tug
LOA (m)	32.5
Breadth (m)	9.8
Draught (m)	1.9
GT (tonnes)	Not specified
Average speed (kn)	10.6
Age of vessel	5
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	3,2 t / 7.5 m
Total storage capacity (m ³)	-
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Tug for pushing the oil recovery barge LÜTTMOOR

LÜTTMOOR

LOCATION	Husum
OPERATIONS	Coastal

VESSEL

Class	Oil recovery barge
LOA (m)	30
Breadth (m)	8.6
Draught (m)	1.9
GT (tonnes)	Not specified
Average speed (kn)	10.6
Age of vessel	5
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.16 t / 7.60 m
Total storage capacity (m ³)	285
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 2 Jibs with inflatable booms
- 2 LAMOR LSC – 4 C over the side systems
- Mobile pump

**STRELASUND**

LOCATION	Stralsund
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	32.5
Breadth (m)	8.4
Draught (m)	2.6
GT (tonnes)	303
Average speed (kn)	10
Age of vessel	8
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0,9 t / 10,6 m
Total storage capacity (m ³)	200
Heated storage (m ³)	Heating system for external steam supply

ANTI-POLLUTION EQUIPMENT

- 2 Jibs with inflatable booms
- 2 LAMOR OPC-4 over the side systems
- Mobile pump equipment
- High pressure cleaner mobile pump

LUNEPLATE

LOCATION	Bremerhaven
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	66.3
Breadth (m)	11.4
Draught (m)	2.8
GT (tonnes)	1 056
Average speed (kn)	8.5
Age of vessel	28
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2,2 t / 11,32 m
Total storage capacity (m ³)	550
Heated storage (m ³)	550

ANTI-POLLUTION EQUIPMENT

- 2 x sweeping arms
- Bow collector
- Mobile pump
- Vacuum system
- 60 to heating boiler

SARDINE

LOCATION	Amrum
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	22.9
Breadth (m)	6.4
Draught (m)	1.15
GT (tonnes)	100
Average speed (kn)	8
Age of vessel	45
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0,9 t / 5 m
Total storage capacity (m ³)	20
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Landing craft with
- 1 x outrigger system
- Brushskimmer
- Only mobile storage tanks

STINT

LOCATION	Lübeck
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	22.9
Breadth (m)	6.4
Draught (m)	1.15
GT (tonnes)	100
Average speed (kn)	8
Age of vessel	45
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0,9 t / 5 m
Total storage capacity (m ³)	20
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Landing craft with
- 1 x outrigger system
- Brushskimmer
- Only mobile storage tanks

ÄSCHE

LOCATION	Rostock
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	22.9
Breadth (m)	6.4
Draught (m)	1.15
GT (tonnes)	100
Average speed (kn)	8
Age of vessel	45
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0,9 t / 5 m
Total storage capacity (m ³)	20
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Landing craft with
- 1 x outrigger system
- Brushskimmer
- Only mobile storage tanks

ORFE

LOCATION	Stralsund
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	22.9
Breadth (m)	6.4
Draught (m)	1.15
GT (tonnes)	100
Average speed (kn)	8
Age of vessel	45
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0,9 t / 5 m
Total storage capacity (m ³)	20
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Landing craft with
- 1 x outrigger system
- Brushskimmer
- Only mobile storage tanks

**OLAND**

LOCATION	Husum
OPERATIONS	Coastal

VESSEL

Class	Research vessel
LOA (m)	26
Breadth (m)	7.2
Draught (m)	1.8
GT (tonnes)	Not specified
Average speed (kn)	10
Age of vessel	27
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Assistance in oil covered areas

NORDERHEVER

LOCATION	Husum
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	40.5
Breadth (m)	9
Draught (m)	1.45
GT (tonnes)	Not specified
Average speed (kn)	8.2
Age of vessel	33
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	150
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Landing craft with
- 1 x outrigger system
- Brushskimmer
- Only mobile storage tanks

MELISA

LOCATION	Lübeck
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	16
Breadth (m)	5
Draught (m)	1.8
GT (tonnes)	Not specified
Average speed (kn)	10
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	10
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 1 x outrigger system
- Skimmer

OS 01

LOCATION	Hamburg
OPERATIONS	Local

VESSEL

Class	Oil recovery vessel
LOA (m)	18.3
Breadth (m)	4.3
Draught (m)	1.8
GT (tonnes)	Not specified
Average speed (kn)	5
Age of vessel	31
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	20
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Only for operation in ports, canals and rivers
- Built-in Weir with self-priming function and flotsam sweeping Basket

FOILINE

LOCATION	Kiel
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	26.5
Breadth (m)	5.3
Draught (m)	1.75
GT (tonnes)	Not specified
Average speed (kn)	9
Age of vessel	90
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	244
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Wallosep W1 skimmer

HAITHABU

LOCATION	Kiel
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	40
Breadth (m)	9.5
Draught (m)	2.6
GT (tonnes)	500
Average speed (kn)	10
Age of vessel	1
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	-
Total storage capacity (m ³)	200
Heated storage (m ³)	Heating system for external steam supply

ANTI-POLLUTION EQUIPMENT

- 2 Jibs with inflatable booms
- 2 LAMOR OPC-4 over the side systems
- Mobile pump equipment
- High pressure cleaner mobile pump





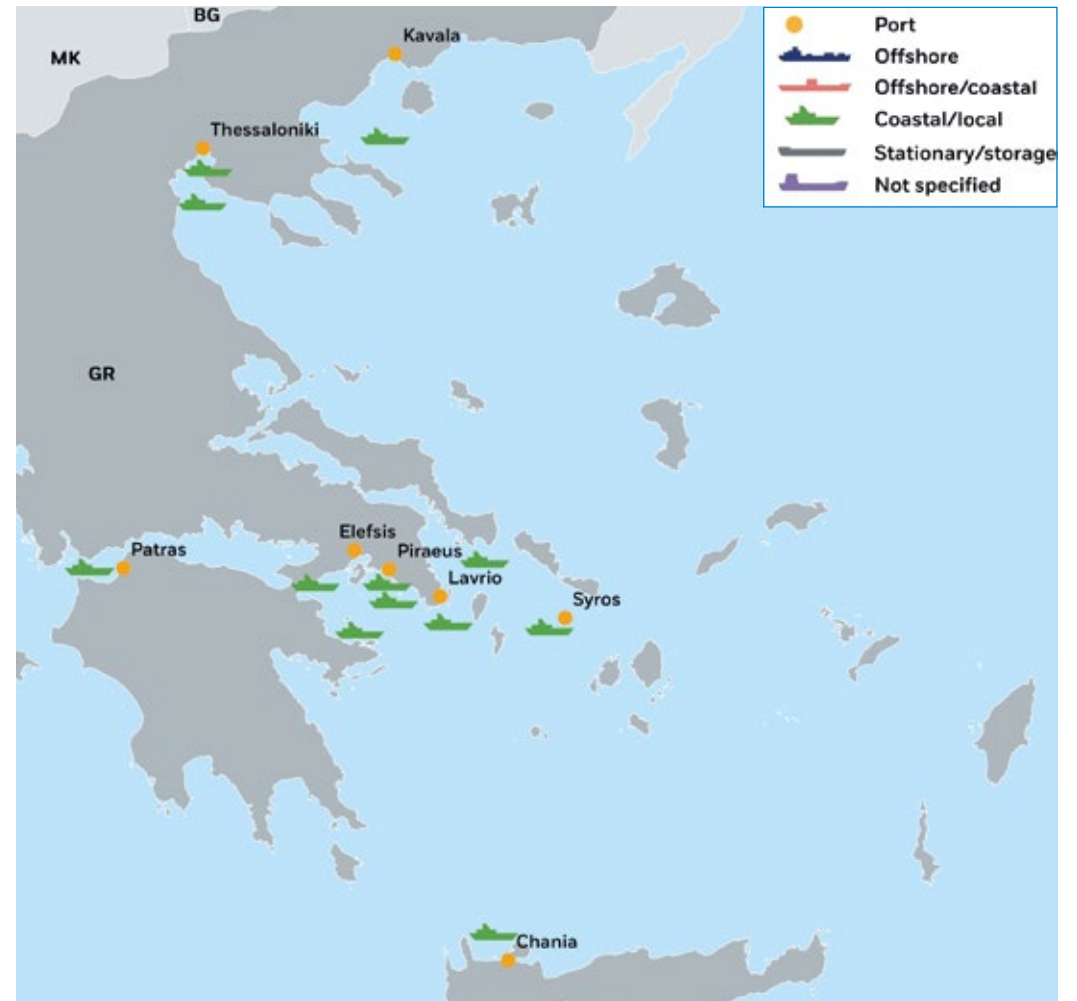
GREECE

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Marine Environment Protection Division (MEPD)
under Ministry of Shipping, Maritime Affairs and the
Aegean

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Chania
- Elefsis
- Kavala
- Lavrio
- Patras
- Piraeus
- Syros
- Thessaloniki



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

24 Regional Marine Pollution Combating Centres (RMPCCs) have been set-up in the following Greek ports: Piraeus, Elefsis, Kavala, Thessaloniki, Patra, Chania, Isthmia, Syros, Neapolis Vion, Volos, Pylos, Alexandroupolis, Limnos, Chios, Rhodes, Zakynthos, Igoumenitsa, Iraklio, Thira, Corfu, Lavrio, Mitilini, Preveza and Samos. These centres, which are under the supervision of port authorities, have been manned with experienced personnel and are equipped with appropriate means and equipment (booms, skimmers, dispersants, absorbents, etc.) in order to enable immediate intervention and control of any pollution incident.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

Stockpiles are located at the majority of the Greek National Port Authorities, which also have in their possession:

- 23 000 m oil containment booms (not including the aforementioned equipment on vessels 401, 413-414-415, 416-417)
- 53 units dispersant application equipment (not including the aforementioned equipment on vessels 401, 413-414-415, 416-417)
- 51 units skimmers/pumps (not including the aforementioned equipment on vessels 401, 413-414-415, 416-417)

- 13 units beach cleaners (Vacuum equipment: 9 units Powervac Vikoma + 4 Scorvac 10/ trailer 2 000 m³)
- 2 units Gerni systems (hot water/high pressure cleaners)
- 2 800 barrels chemical dispersants
- 83 t sorbents (rolls, pads, booms, pillows)
- 14.5 t sorbent wigs

Additionally, the Directorate has planned to supply antipollution equipment that will equip even more the port authorities of the country, taking advantage of the financial resources provided by the European Community and the limited resources of the State budget.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

- EPE owns and operates a number of vessels, the majority of which (15 skimming vessels, one tugboat and a barge) are based at their headquarters in Piraeus (Keratsini port). A further seven stations located in Greece and Cyprus each have a skimming vessel.
- The vessels for Anti-Pollution Response can operate all over the Greek territory servicing either private entities or national ones, in the framework of relevant contingency plans.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

- MESSINIAKI FRONTIS (1979), 7 000 t of crude oil
- GEROI CHERNOMORYA (1992), 8 000 t of crude
- M/T "LA GUARDIA" (1994) 400 t crude fuel diesel oil
- Floating SEPARATOR "Slops I" (2000), 570 t fuel oil
- M/V "EUROBULLKER X" (2001), 475 t fuel diesel oil
- C/S SEADIAMOND (2007), 430 t fuel oil, 63 t diesel oil, 34 t lubricants, 9.5 t sludges, 14 t bilges, 9.5 t lubricant residues.

4. REGIONAL AND BILATERAL AGREEMENTS

- Barcelona Convention
- Bilateral agreement with Italy
- Member of the European Community Task Force

5. DRILLS AND EXERCISES

In the years 2007 and 2010 Greece arranged and carried out a joint exercise with the European Maritime Safety Agency.

HCG's antipollution means and vessels and EMSA's contracted vessels participated in these two exercises, which were extremely successful and led to a strengthened cooperation between all involved parties.



413

LOCATION	Elefsis
OPERATIONS	Coastal

VESSEL

Class	Multipurpose vessel
LOA (m)	29.1
Breadth (m)	6.2
Draught (m)	2.6
GT (tonnes)	210
Average speed (kn)	15
Age of vessel	22
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.1
Total storage capacity (m ³)	10
Heated storage (m ³)	(2 x 5 heated tanks)

ANTI-POLLUTION EQUIPMENT

- 105 m fence type boom (scorpion 1150)
- Skimmer type T-Disk 18 Vikoma
- Absorbents (booms, pads, rolls, wigs)
- Dispersant spray capability

414

LOCATION	Chania
OPERATIONS	Coastal

VESSEL

Class	Multipurpose vessel
LOA (m)	29.1
Breadth (m)	6.2
Draught (m)	2.4
GT (tonnes)	210
Average speed (kn)	15
Age of vessel	22
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.1
Total storage capacity (m ³)	10
Heated storage (m ³)	(2 x 5 heated tanks)

ANTI-POLLUTION EQUIPMENT

- 480 m fence type boom (Flexi 1100)
- Skimmer type T-Disk 18 Vikoma
- Absorbents (booms, pads, rolls, wigs)
- Dispersant spray capability

415

LOCATION	Kavala
OPERATIONS	Coastal

VESSEL

Class	Multipurpose vessel
LOA (m)	29.1
Breadth (m)	6.2
Draught (m)	2.4
GT (tonnes)	210
Average speed (kn)	15
Age of vessel	22
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.1
Total storage capacity (m ³)	10
Heated storage (m ³)	(2 x 5 heated tanks)

ANTI-POLLUTION EQUIPMENT

- 480 m fence type boom (Flexi 1100)
- Skimmer type T-Disk 18 Vikoma
- Absorbents (booms, pads, rolls, wigs)
- Dispersant spray capability

416

LOCATION	Piraeus
OPERATIONS	Coastal

VESSEL

Class	Anti-Pollution vessel
LOA (m)	19
Breadth (m)	6
Draught (m)	1.7
GT (tonnes)	58
Average speed (kn)	9.5
Age of vessel	17
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.5
Total storage capacity (m ³)	27
Heated storage (m ³)	(2 x 13,5 heated tanks)

ANTI-POLLUTION EQUIPMENT

- 250 m air inflatable trol boom A/F 1300
- Mop skimmer
- Skimming pump DESMI Dop-160
- Dispersant spray capability
- Absorbents (booms, pillows, pads and rolls, wigs)

417

LOCATION	Lavrio
OPERATIONS	Coastal

VESSEL

Class	Anti-Pollution vessel
LOA (m)	19
Breadth (m)	6
Draught (m)	1.7
GT (tonnes)	58
Average speed (kn)	9.5
Age of vessel	16
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.5
Total storage capacity (m ³)	27
Heated storage (m ³)	(2 x 13,5 heated tanks)

ANTI-POLLUTION EQUIPMENT

- 250 m air inflatable trol boom A/F 1300
- Mop skimmer
- Skimming pump DESMI Dop-160
- Dispersant spray capability
- Absorbents (booms, pillows, pads and rolls, wigs)

401

LOCATION	Piraeus
OPERATIONS	Coastal

VESSEL

Class	Multipurpose vessel
LOA (m)	19.3
Breadth (m)	5.55
Draught (m)	1.7
GT (tonnes)	50
Average speed (kn)	9.5
Age of vessel	26
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	6
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 180 m fence type boom (Troilboom 1100)
- Skimmer type Komara 12 K
- Dispersant spray capability
- Absorbents (booms, pillows, rolls)



418

LOCATION	Thessaloniki
OPERATIONS	Coastal

VESSEL

Class	Anti-Pollution vessel
LOA (m)	19
Breadth (m)	6
Draught (m)	1.2-1.7
GT (tonnes)	58
Average speed (kn)	9.5
Age of vessel	11
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.5
Total storage capacity (m ³)	50
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 250 m air inflatable trol boom A/F 1300
- Mop skimmer, absorbents (booms, pillows, pads and rolls, wigs)
- Skimmer type DESMI Dop-160
- Dispersant spray capability

419

LOCATION	Patras
OPERATIONS	Coastal

VESSEL

Class	Anti-Pollution vessel
LOA (m)	19
Breadth (m)	6
Draught (m)	1.2-1.7
GT (tonnes)	58
Average speed (kn)	9.5
Age of vessel	11
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.5
Total storage capacity (m ³)	50
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 250 m air inflatable trol boom A/F 1300
- Mop skimmer, absorbents (booms, pillows, pads and rolls, wigs)
- Skimmer type DESMI Dop-160
- Dispersant spray capability

420

LOCATION	Piraeus
OPERATIONS	Coastal

VESSEL

Class	Anti-Pollution vessel
LOA (m)	19
Breadth (m)	6
Draught (m)	1.2-1.7
GT (tonnes)	58
Average speed (kn)	9.5
Age of vessel	10
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.5
Total storage capacity (m ³)	50
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 250 m air inflatable trol boom A/F 1300
- Mop skimmer, absorbents (booms, pillows, pads and rolls, wigs)
- Skimmer type DESMI Dop-160
- Dispersant spray capability

421

LOCATION	Syros
OPERATIONS	Coastal

VESSEL

Class	Anti-Pollution vessel
LOA (m)	19
Breadth (m)	6
Draught (m)	1.2-1.7
GT (tonnes)	58
Average speed (kn)	9.5
Age of vessel	9
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.5
Total storage capacity (m ³)	50
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 250 m air inflatable trol boom A/F 1300
- Mop skimmer, absorbents (booms, pillows, pads and rolls, wigs)
- Skimmer type DESMI Dop-160
- Dispersant spray capability



PLS_413



PLS_416



PLS_418



PLS_419



PLS_420



PLS_421





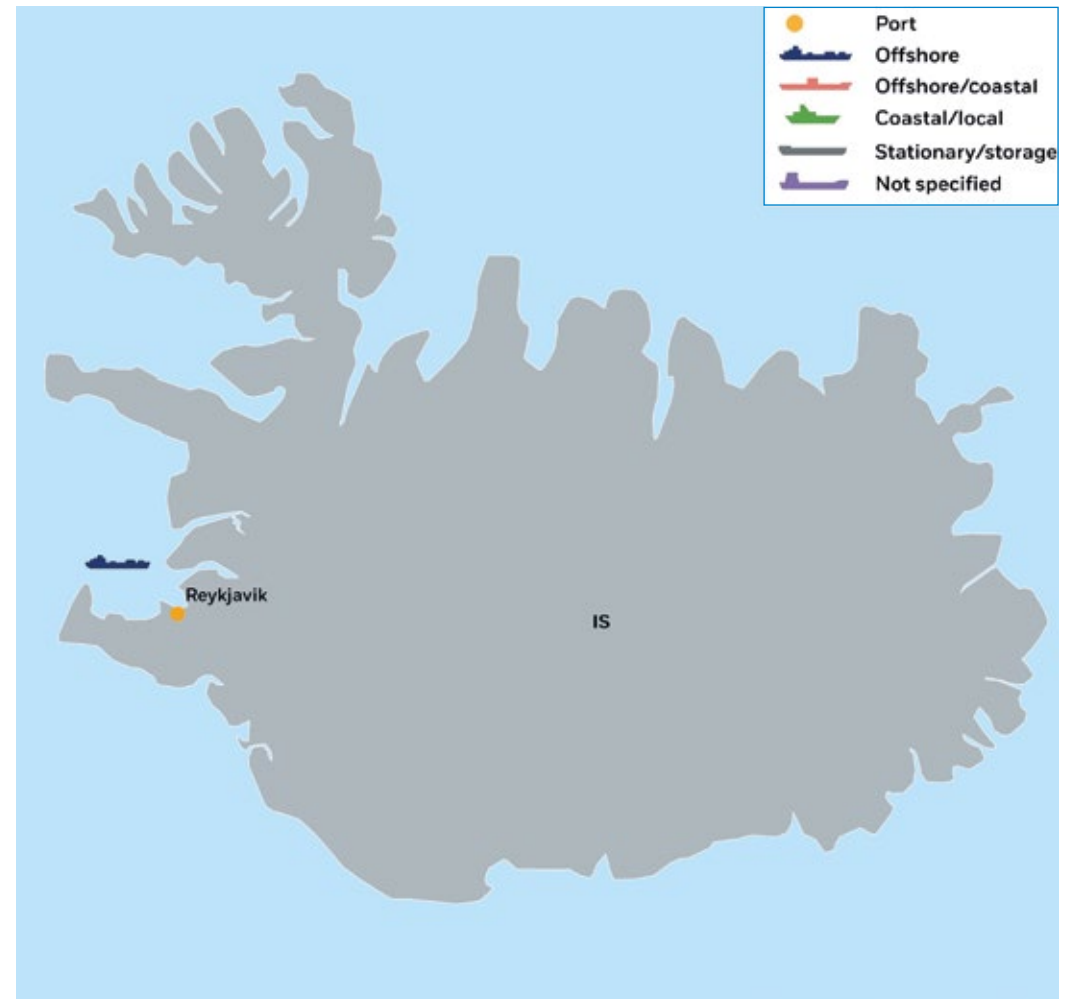
ICELAND

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Environment Agency of Iceland (EAI) under the
auspices of the Ministry of Environment

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

■ Reykjavik



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

National authorities do not own Specialised Anti-Pollution Vessels.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

The Coast Guard Vessel Þór (Thor) c/x TFIA is equipped with 300 m boom, skimmers and heated onboard tanks.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

Not applicable.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

There have been no major spills. However, small spills are not uncommon and several have occurred in remote areas.

4. REGIONAL AND BILATERAL AGREEMENTS

- Copenhagen Agreement

5. DRILLS AND EXERCISES

- Copenhagen Agreement: In accordance with Copenhagen Agreement Manual
- North Atlantic Coast Guard Forum: Participation and observation as applicable
- Local exercises: Annual exercise using Environmental Agency of Iceland local equipment



C/S TFIA

LOCATION	Reykjavik
OPERATIONS	Offshore

VESSEL

Class	Patrol/Navy Vessel
LOA (m)	94
Breadth (m)	16
Draught (m)	5.8
GT (tonnes)	4 049
Average speed (kn)	14
Age of vessel	1
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	100
Total storage capacity (m ³)	640
Heated storage (m ³)	Yes

ANTI-POLLUTION EQUIPMENT

- 300 m Norlense Offshore oil boom NO-800-R
- 1 Brush Skimmer Free floating LFF400-4W





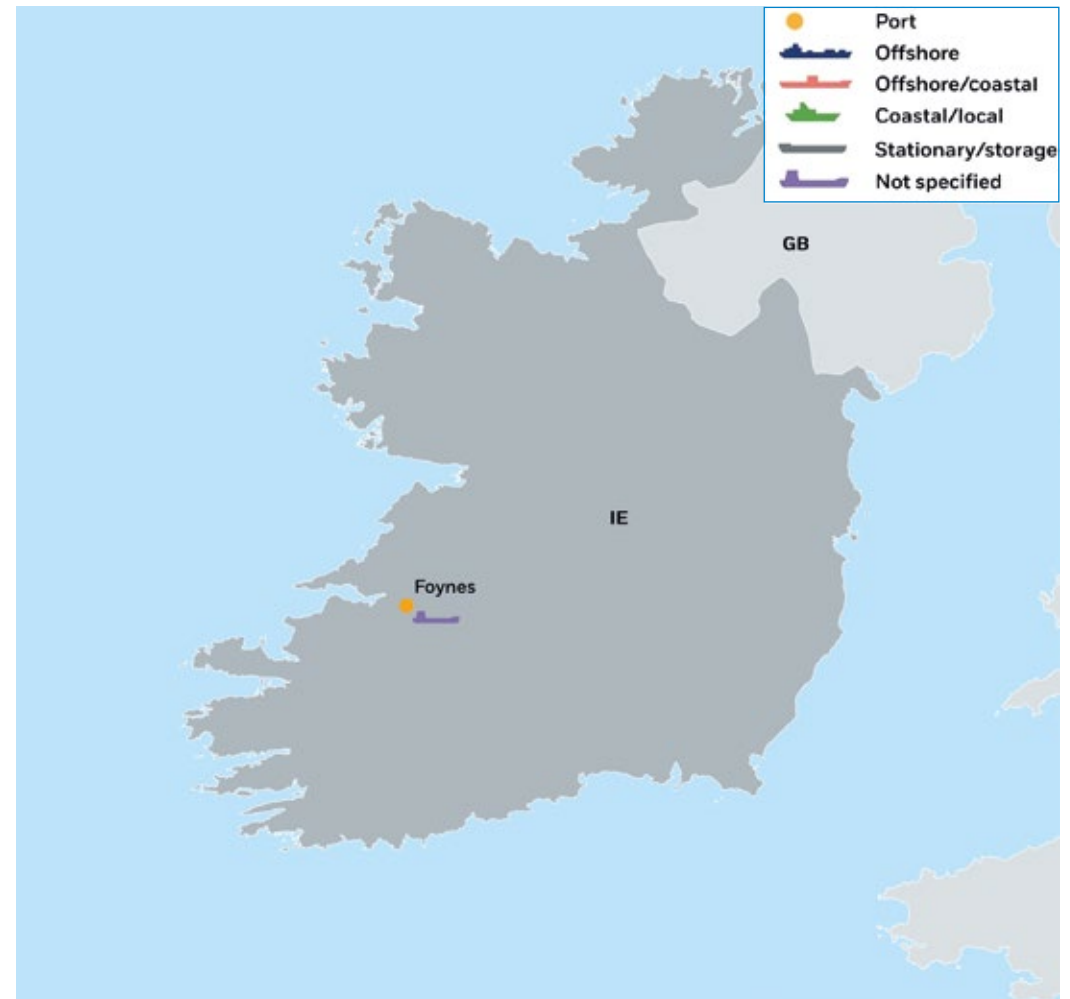
IRELAND

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Marine Rescue Coordination Centre, the Irish Coast Guard, the Department of Transport

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Foynes on the River Shannon West of Ireland



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

The Irish Coast Guard operates a fleet of semi-rigid and inflatable boats (rib) around the coast for patrol, transport and assistance to shore units. These may be available to assist in boom deployment. The IRCG and Shannon Foynes Port Company, in joint ownership, have taken delivery of a Cataglop XLD oil and waste recovery boat. This vessel is 9.90m long (LOA) and is capable of recovering 2 700 litres of oil to an inboard storage tank. It also can tow a 5 m³ storage flexible tank for further recovery capacity. However, this vessel is intended for calm/still water conditions e.g. small harbours/marinas. In the event of a sizeable spill occurring, Ireland would look to Bonn Agreement neighbours for assistance in recovery of oil on water. Ireland does not own or have under charter, any specialised anti-pollution vessels.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

The IRCG has no emergency towing vessels. However, provision of an emergency towing capability is under consideration with national and international towing, and salvage companies and harbour authorities. IRCG Oil response equipment stockpiles are located at Killybegs, Dublin and Castletownbere. The IRCG has in place pre-signed contracts with tug owners of vessels of greater than 50 t bollard pull.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

Bantry Terminals Limited has a recovery vessel based in Bantry Bay. This is limited to recovery operations in near-shore waters.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

- KOWLOON BRIDGE (1986), 1 200 t of bunker fuel

4. REGIONAL AND BILATERAL AGREEMENTS

- Bonn Agreement
- A bilateral agreement exists with the United Kingdom covering the Irish Sea
- Member of the European Community Task Force

5. DRILLS AND EXERCISES

No information provided.



OSCAR

LOCATION	Foynes on the River Shannon West of Ireland
OPERATIONS	Not Specified

VESSEL

Class	Oil recovery vessel
LOA (m)	-
Breadth (m)	-
Draught (m)	-
GT (tonnes)	-
Average speed (kn)	-
Age of vessel	-
IMO No.	-

EQUIPMENT

Crane	-
Crane capability (tonnes)	-
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

-	
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Oscar





ITALY

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Ministry for Environment and Territory and Sea

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- | | | |
|----------------------|-------------------------|-------------------|
| ■ Ancona | ■ Messina/Lipari | ■ Termini Imerese |
| ■ Arbatax | ■ Molfetta | ■ Termoli |
| ■ Augusta | ■ Monopoli | ■ Trapani |
| ■ Cagliari | ■ Oristano | ■ Trieste |
| ■ Cetraro | ■ Otranto | ■ Vibo Valentia |
| ■ Chioggia | ■ Piombino/Portoferraio | |
| ■ Civitavecchia | ■ Porto Nogaro | |
| ■ Corigliano Calabro | ■ Porto S.Stefano | |
| ■ Crotone | ■ Porto Torres | |
| ■ Gaeta | ■ Pozzallo/Lampedusa | |
| ■ Genova | ■ Ravenna | |
| ■ Giulianova | ■ Roccella Jonica | |
| ■ Golfo Aranci | ■ Salerno | |
| ■ Imperia | ■ S.Agata di Militello | |
| ■ La Spezia | ■ S.Teresa di Gallura | |
| ■ Licata | ■ Savona | |
| ■ Livorno | ■ Sciacca | |



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

No information provided.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

No information provided.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

Italian authorities charter anti-pollution vessels. There are 40 specialised response vessels available: ten vessels are offshore supply vessels and 30 are coastal vessels. Ten of these vessels can operate in open water/high seas; they are in stand by and they are ready to start within five hours from the call.

The Ministry of Environment agreed a contract with Castalia S.C.p.A., in 2011, which expired on 13 March 2013, for the provision of at-sea oil pollution response services. As a consequence, there are presently 40 specialised response vessels located along Italy's 7 500 km of coastline, primarily in areas with a higher risk of accidents and within marine protected areas.

3. PREVIOUS EXPERIENCE WITH OIL

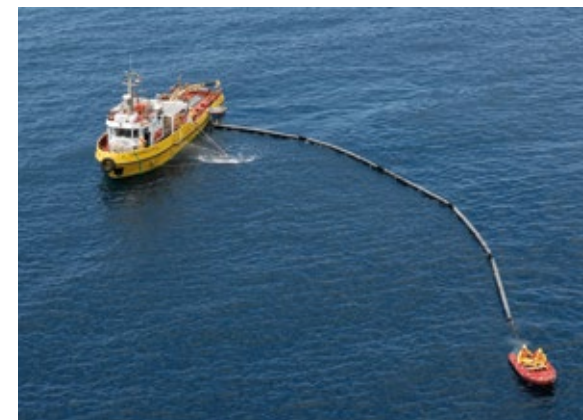
- M/V MARGARET (03/12/2005 - 31/12/2005)
Golfo di La Spezia. Aground Recovered material: 301.5 m³ mixed oil - 630 m absorbents cloth of oily mixtures buffered, 0.7 m³ solid waste arising from the ship
- OSTUNI (BR) (10/02/2006 - 04/30/2006)
Costa Merlata - 177.5 m³ of oily emulsions and 4.2 m³ of absorbent cloth and rags tinted oil pollution response

4. REGIONAL AND BILATERAL AGREEMENTS

- Barcelona Convention
- RAMOGE
- Adriatic & Ionian Initiative
- Mixed agreement for the protection of the Adriatic Italy-Slovenia-Croatia-Montenegro
- Mediplan

5. DRILLS AND EXERCISES

- 2005: 16 antipollution exercises
- 2006: 19 antipollution exercises
- 2007: 28 antipollution exercises
- 2008: 19 antipollution exercises



Supergabbiano Sette

**ALCE NERO**

LOCATION	Otranto
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	38
Breadth (m)	9
Draught (m)	4.8
GT (tonnes)	299
Average speed (kn)	13
Age of vessel	37
IMO No.	7324118

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	reach 5 m, lift 1 t
Total storage capacity (m ³)	80
Heated storage (m ³)	Not specified

ANTI-POLLUTION EQUIPMENT

- High sea boom 200 m
- Coastal boom 100 m
- Skimmer 200 m³/h

BINO

LOCATION	Gaeta
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	38.7
Breadth (m)	10.2
Draught (m)	4.6
GT (tonnes)	429
Average speed (kn)	12.5
Age of vessel	28
IMO No.	8226557

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2.9
Total storage capacity (m ³)	200
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- High sea boom 200 m
- Coastal boom 100 m
- Skimmer 200 m³/h

BONASSOLA

LOCATION	Genova
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	58.95
Breadth (m)	13
Draught (m)	2.8
GT (tonnes)	1 064
Average speed (kn)	10
Age of vessel	36
IMO No.	7396769

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	3
Total storage capacity (m ³)	734
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- High sea boom 200 m
- Coastal boom 100 m
- Skimmer 200 m³/h

CORRADO NERI

LOCATION	Cagliari
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	35
Breadth (m)	14
Draught (m)	6.2
GT (tonnes)	733
Average speed (kn)	13.0
Age of vessel	2
IMO No.	9443748

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	12.5
Total storage capacity (m ³)	146
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- High sea boom 200 m
- Coastal boom 100 m
- Skimmer 200 m³/h

ESINO

LOCATION	Ancona
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	35.1
Breadth (m)	10.6
Draught (m)	4.6
GT (tonnes)	456
Average speed (kn)	12.5
Age of vessel	5
IMO No.	9372781

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	4.5
Total storage capacity (m ³)	110
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- High sea boom 200 m
- Coastal boom 100 m
- Skimmer 200 m³/h

IEVOLI RED

LOCATION	Messina/Lipari
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	36
Breadth (m)	10.2
Draught (m)	4.2
GT (tonnes)	466
Average speed (kn)	12.5
Age of vessel	10
IMO No.	9249764

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	4.9
Total storage capacity (m ³)	218.8
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- High sea Boom 200m
- Coastal Boom 100m
- skimmer 200m³/h

**SANTANGELO**

LOCATION	Trapani
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	35.6
Breadth (m)	11.6
Draught (m)	5.4
GT (tonnes)	461
Average speed (kn)	13.0
Age of vessel	5
IMO No.	9343948

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	15
Total storage capacity (m ³)	80
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- High sea boom 200 m
- Coastal boom 100 m
- Skimmer 200 m³/h

SPICA

LOCATION	Trieste
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	54.5
Breadth (m)	12
Draught (m)	5
GT (tonnes)	498
Average speed (kn)	12.0
Age of vessel	4
IMO No.	9438951

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	Not Specified
Total storage capacity (m ³)	Not Specified
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- High sea boom 200 m
- Coastal boom 100 m
- Skimmer 200 m³/h

TIRRENO

LOCATION	Golfo Aranci
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	35
Breadth (m)	11.6
Draught (m)	4.8
GT (tonnes)	466
Average speed (kn)	13.0
Age of vessel	5
IMO No.	9359181

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	5
Total storage capacity (m ³)	80
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- High sea boom 200 m
- Coastal boom 100 m
- Skimmer 200 m³/h

TITO

LOCATION	Livorno
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	62.82
Breadth (m)	13
Draught (m)	5.4
GT (tonnes)	1154
Average speed (kn)	12.0
Age of vessel	20
IMO No.	7711672

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	8
Total storage capacity (m ³)	218
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- High sea boom 200 m
- Coastal boom 100 m
- Skimmer 200 m³/h

ALCIDE

LOCATION	Porto Torres
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	34.94
Breadth (m)	Not specified
Draught (m)	Not specified
GT (tonnes)	142.5
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	Not Specified
Total storage capacity (m ³)	Not Specified
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

ARMONIA

LOCATION	Arbatax
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	36.5
Breadth (m)	10.02
Draught (m)	2.8
GT (tonnes)	307
Average speed (kn)	12
Age of vessel	29
IMO No.	8830176

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2.9+1
Total storage capacity (m ³)	208.5
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- High sea boom 200 m
- Coastal boom 100 m
- Skimmer 200 m³/h

**BELUGA**

LOCATION	Porto Nogaro
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	23.73
Breadth (m)	6.9
Draught (m)	2.6
GT (tonnes)	108.7
Average speed (kn)	12
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	106.6
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- High sea boom 200 m
- Coastal boom 100 m
- Skimmer 150 m³/h

CITTÀ DI RAVENNA

LOCATION	Corigliano Calabro
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	32.1
Breadth (m)	9.2
Draught (m)	4.3
GT (tonnes)	199.6
Average speed (kn)	12
Age of vessel	29
IMO No.	8120480

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	3.2
Total storage capacity (m ³)	74.4
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

COMANDANTE UGO CASA

LOCATION	Imperia
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	20.0
Breadth (m)	5
Draught (m)	2.8
GT (tonnes)	45.81
Average speed (kn)	11
Age of vessel	20
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0.4
Total storage capacity (m ³)	2.0
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

CRISTALLINA BUNKER

LOCATION	Oriстано
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	28.61
Breadth (m)	Not specified
Draught (m)	2.4
GT (tonnes)	97.6
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

ECO AUGUSTA

LOCATION	Licata
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	24.0
Breadth (m)	5.5
Draught (m)	2
GT (tonnes)	89
Average speed (kn)	12.5
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2
Total storage capacity (m ³)	101
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

ECO ELBA

LOCATION	Santa Tereasa di Gallura
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	20.7
Breadth (m)	6
Draught (m)	1.8
GT (tonnes)	70.45
Average speed (kn)	Not specified
Age of vessel	5
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	Not Specified
Total storage capacity (m ³)	Not Specified
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

**ECO GIGLIO**

LOCATION	Porto Santo Stefano
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	20.7
Breadth (m)	6
Draught (m)	1.5
GT (tonnes)	70.45
Average speed (kn)	12
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0.5
Total storage capacity (m ³)	30
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

ECOLAGUNA 4 F.Z

LOCATION	Chioggia
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	35.8
Breadth (m)	9.5
Draught (m)	2.6
GT (tonnes)	281
Average speed (kn)	10
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	6.9
Total storage capacity (m ³)	530
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- High sea boom 200 m
- Coastal boom 100 m
- Skimmer 200 m³/h

FORTITUDO

LOCATION	Termoli
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	33
Breadth (m)	8.8
Draught (m)	3.7
GT (tonnes)	275
Average speed (kn)	Not specified
Age of vessel	24
IMO No.	8521256

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	Not specified
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

IEVOLECO

LOCATION	Civitavecchia
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	27.0
Breadth (m)	7
Draught (m)	2.6
GT (tonnes)	149.2
Average speed (kn)	12
Age of vessel	11
IMO No.	9248760

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0.5
Total storage capacity (m ³)	60
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

IEVOLECO QUARTO

LOCATION	Cetraro
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	24.6
Breadth (m)	6.7
Draught (m)	1.6
GT (tonnes)	137.9
Average speed (kn)	12
Age of vessel	19
IMO No.	9070412

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0.5
Total storage capacity (m ³)	86
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

IEVOLECO TERZO

LOCATION	Vibo Valentia
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	24.6
Breadth (m)	6.7
Draught (m)	1.6
GT (tonnes)	137.9
Average speed (kn)	12
Age of vessel	19
IMO No.	9070395

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0.5
Total storage capacity (m ³)	86
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

**JERZY**

LOCATION	Piombino/Portoferraio
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	22.1
Breadth (m)	6
Draught (m)	2.3
GT (tonnes)	87.91
Average speed (kn)	9.2
Age of vessel	16
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0.3
Total storage capacity (m ³)	20
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

KORAL

LOCATION	La Spezia
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	36.7
Breadth (m)	10
Draught (m)	5.2
GT (tonnes)	481
Average speed (kn)	10
Age of vessel	35
IMO No.	7607089

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2.5
Total storage capacity (m ³)	230
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

LAMU

LOCATION	Monopoli
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	37.3
Breadth (m)	10.6
Draught (m)	2.4
GT (tonnes)	363
Average speed (kn)	10
Age of vessel	27
IMO No.	8321125

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	50+2.8
Total storage capacity (m ³)	54
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

LEONCILLO

LOCATION	Termini Imerese
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	38.0
Breadth (m)	9.1
Draught (m)	3.9
GT (tonnes)	279
Average speed (kn)	14
Age of vessel	41
IMO No.	6929882

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	Not Specified
Total storage capacity (m ³)	Not Specified
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

MARFIN QUARTO

LOCATION	Crotone
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	20.5
Breadth (m)	6.7
Draught (m)	1.3
GT (tonnes)	124
Average speed (kn)	8
Age of vessel	19
IMO No.	9070400

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2
Total storage capacity (m ³)	32.4
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

MELILLI

LOCATION	Pozzallo/Lampedusa
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	27.62
Breadth (m)	7.3
Draught (m)	3.4
GT (tonnes)	149.17
Average speed (kn)	Not specified
Age of vessel	31
IMO No.	7907386

EQUIPMENT

Crane	Not Specified
Crane capability (tonnes)	Not Specified
Total storage capacity (m ³)	Not Specified
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h



MONTE ROSA

LOCATION	Giulianova
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	30.54
Breadth (m)	7.3
Draught (m)	2.9
GT (tonnes)	173
Average speed (kn)	10
Age of vessel	36
IMO No.	7428744

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	3.2
Total storage capacity (m ³)	80
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

PIEMONTE

LOCATION	Molfetta
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	31.11
Breadth (m)	8.4
Draught (m)	3.9
GT (tonnes)	228
Average speed (kn)	10
Age of vessel	35
IMO No.	7427556

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	4
Total storage capacity (m ³)	80
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

PUNTA IZZO

LOCATION	Roccella Jonica
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	20.12
Breadth (m)	4.8
Draught (m)	1.95
GT (tonnes)	47
Average speed (kn)	10
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.35
Total storage capacity (m ³)	25.26
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

REC OIL IV

LOCATION	San'Agata di Militello
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	20.9
Breadth (m)	4.9
Draught (m)	1.9
GT (tonnes)	69
Average speed (kn)	10
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.1
Total storage capacity (m ³)	96
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

SAN GIACOMO

LOCATION	Salerno
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	45.5
Breadth (m)	8.1
Draught (m)	3.2
GT (tonnes)	406
Average speed (kn)	10.2
Age of vessel	43
IMO No.	6821793

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2
Total storage capacity (m ³)	528
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

SECOMAR QUATTRO

LOCATION	Ravenna
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	43
Breadth (m)	9.3
Draught (m)	2.5
GT (tonnes)	377
Average speed (kn)	11
Age of vessel	24
IMO No.	8502975

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	5
Total storage capacity (m ³)	308.3
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h



SUPERGABBIANO SEI

LOCATION	Augusta
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	21.7
Breadth (m)	5.2
Draught (m)	2.3
GT (tonnes)	57
Average speed (kn)	10
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0.5
Total storage capacity (m ³)	40
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

SUPERGABBIANO SETTE

LOCATION	Sciacca
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	20.5
Breadth (m)	5
Draught (m)	2.2
GT (tonnes)	60
Average speed (kn)	12
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0.78
Total storage capacity (m ³)	39.8
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h

TAGIS

LOCATION	Savona
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	23.98
Breadth (m)	6
Draught (m)	2.2
GT (tonnes)	61.33
Average speed (kn)	12.5
Age of vessel	19
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.5
Total storage capacity (m ³)	20
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Coastal boom 100 m
- Skimmer 80 m³/h





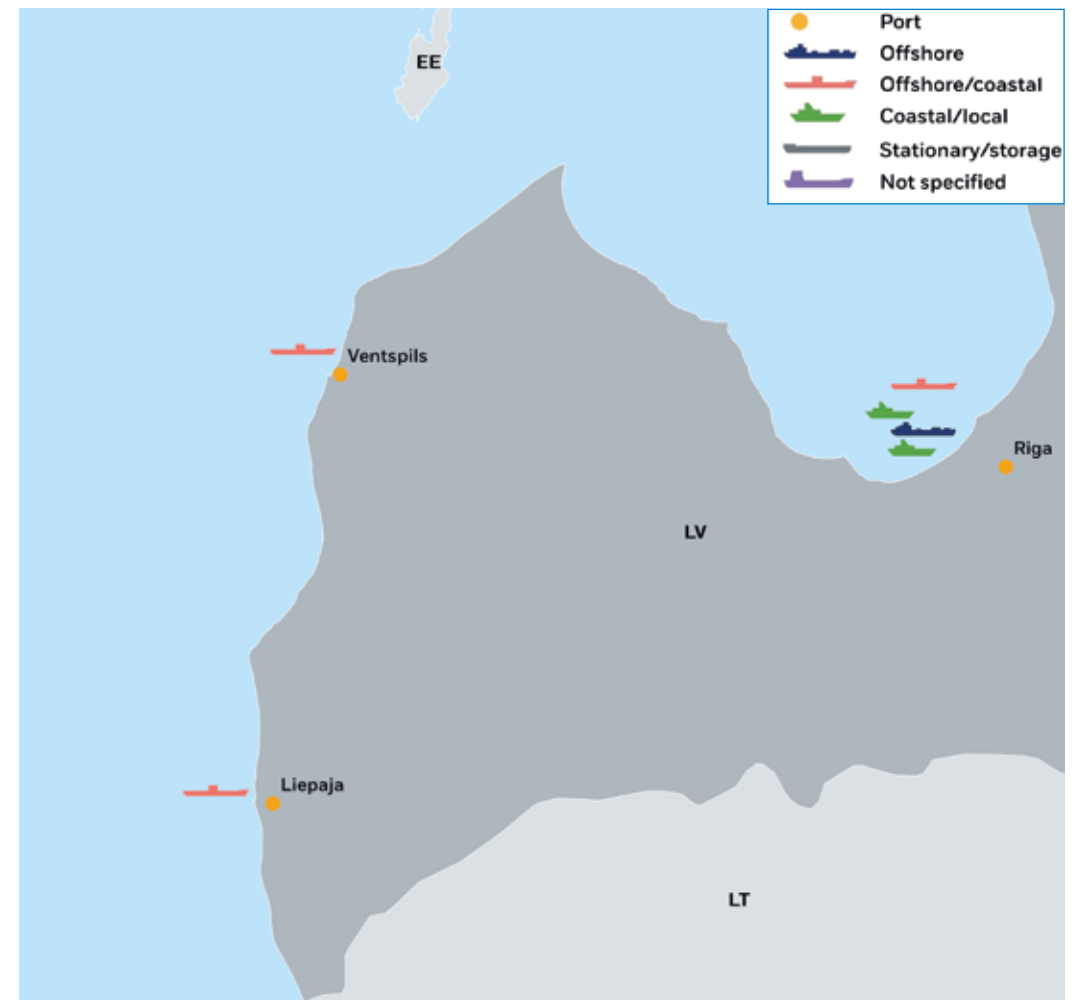
LATVIA

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The State Environmental Service under the Ministry of Environmental Protection and Regional Development is the coordinating authority for implementation of the National Oil and HNS Contingency Plan. The Latvian Naval Forces is the executive authority for dealing with oil/chemical pollution response at sea.

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Liepaja
- Riga
- Ventspils



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

Latvian Coast Guard Service operates two naval vessels, one non-propelled barge and two coastal response vessels, each of them fitted with oil spill response equipment, such as brush type skimmer systems, open sea booms and submersible skimmers.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

The total oil spill response equipment of the Latvian Coast Guard Service consists of 2 200 m of open sea boom, 120 m of coastal boom, 500 m of harbour boom, 5 400 m of absorbent boom, 6 t of absorbent granules, 4 brush type skimmer systems for a vessel of opportunity, 3 submersible skimmers, 9 high capacity oil/water transfer pumps, 8 floating oil bags with total capacity of 110 m³, 1 dispersant spray system with 2 000 litres of dispersant concentrate, 1 steam generator, 1 oil trawl system. As an assisting vessel in a response operation any vessel of the Latvian Naval Flotilla and State Boarder Guard can be used. These include search and rescue vessels, patrol vessels, boarder guard vessels and minesweeping vessels.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

No agreements in place.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

There have been no major oil spills in Latvian waters.

4. REGIONAL AND BILATERAL AGREEMENTS

- Helsinki Convention
- Latvian-Estonian bilateral co-operation agreement

5. DRILLS AND EXERCISES

Annual drills - table-top, at sea and training for personnel (Alfa, Bravo and Charlie) is carried out by the Latvian Coast Guard Service.

Latvian vessels participate at the annual Baltic Sea international exercise BALEX DELTA.



A-90 VARONIS

LOCATION	Riga
OPERATIONS	Offshore

VESSEL

Class	Patrol/Navy Vessel
LOA (m)	59.5
Breadth (m)	11.12
Draught (m)	3.69
GT (tonnes)	1037
Average speed (kn)	10
Age of vessel	38
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	4
Total storage capacity (m ³)	170
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Open sea Ro-Boom 1500 (800 m)
- 1 floating submersible DESMI Terminator skimmer system with a DOP screw pump (100m³/h) and DESMI belt cassette for viscous oil
- 2 over the side LAMOR brush type skimmer systems OPC-4 with a Marflex pump (80 m³/h) and two flexible sweeping arms
- 70 m³ stationary tank/100 m³ floating tanks (2 x 50 m³)

KA-14 ASTRA

LOCATION	Ventspils
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	Search and Rescue Vessel
LOA (m)	22.8
Breadth (m)	6
Draught (m)	1.2
GT (tonnes)	45
Average speed (kn)	20.0
Age of vessel	15
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0.7
Total storage capacity (m ³)	-
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 2 over the side LAMOR brush type skimmer systems OPC-4 with a Marflex pump (80 m³/h) and two flexible sweeping arms
- 2 LAMOR oil packing units with 300 sealable polyethylene bags (0,68 m³/each)

SEA BARGE JL-1

LOCATION	Liepaja
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	Non propelled barge
LOA (m)	19.85
Breadth (m)	5.7
Draught (m)	1.3
GT (tonnes)	40
Average speed (kn)	Not specified
Age of vessel	10
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	3.9
Total storage capacity (m ³)	100
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Open sea boom Ro-Boom 1500 (800 m)
- 1 over the side LAMOR brush type skimmer system OPC-4 with a Marflex pump (80 m³/h) and one flexible sweeping arm
- 1 floating submersible DESMI Terminator skimmer system with a DOP screw pump (100 m³/h) and remote control

RK-12 VALPAS

LOCATION	Riga
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	Patrol/Navy Vessel
LOA (m)	49
Breadth (m)	8.6
Draught (m)	4.3
GT (tonnes)	61
Average speed (kn)	10
Age of vessel	40
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	3
Total storage capacity (m ³)	13
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Open sea boom AP 3001 (600 m)
- 1 floating submersible DESMI Terminator
- Skimmer system with a DOP-200 screw pump (60m³/h) and disc/brush skimmer cassette

AGE

LOCATION	Riga
OPERATIONS	Coastal

VESSEL

Class	OSR vessel
LOA (m)	10.5
Breadth (m)	3.3
Draught (m)	0.7
GT (tonnes)	8
Average speed (kn)	12
Age of vessel	14
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0.6
Total storage capacity (m ³)	1.5
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- LAMOR bow brush skimmer

ATE

LOCATION	Riga
OPERATIONS	Coastal

VESSEL

Class	OSR vessel
LOA (m)	10.5
Breadth (m)	3.3
Draught (m)	0.7
GT (tonnes)	8
Average speed (kn)	12
Age of vessel	14
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0.6
Total storage capacity (m ³)	1.5
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- LAMOR bow brush skimmer



KA-14 Astra



A-90 Varonis





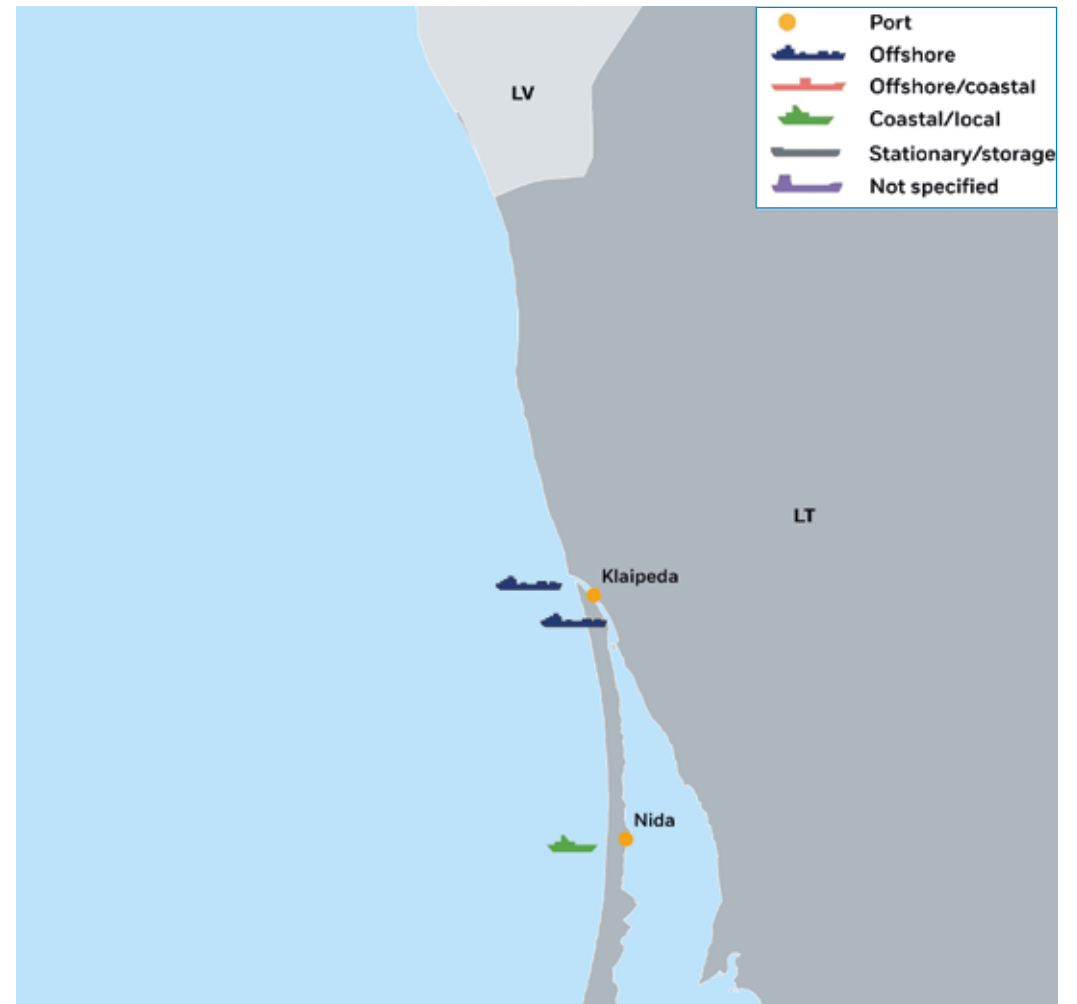
LITHUANIA

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Lithuanian Naval Force of Ministry of National Defence

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Klaipeda
- Klaipeda port/ Butinge terminal by SPM buoy
- Port of Nida /Port of Klaipeda



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

The Lithuanian Government owns two specialised anti-pollution vessels. The Navy of the Lithuanian Armed Forces operates the multipurpose vessel SAKIAI, which is suitable for at sea operation with storage capacity of 228 m³.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

In addition, a number of booms and skimmers are stationed in the Klaipeda State Seaport area. The Lithuanian Coast Guard operates M/V MADELEINE which is suitable for operation in shallow waters. Power stations LAMOR 4 x 50 kW, Terminator skimmers x3, Ro-Boom 1 500 booms 4 x 200 m, skimmer Ro-Skim 1 500, Dispersant spray system, Power stations 2x10 kW and other equipment are stored in the Lithuanian Navy warehouse.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

There are no private resources in Lithuania, except at the Butinge offshore oil terminal, where there is some oil response equipment, located on board terminal-serving tugs for local needs. The Butinge terminal vessel SOLL TENGIZ is suitable for at-sea operation, with storage capacity 100 m³. Fire fighting equipment:

- 2 x Skum 1 400 m³/hr at 13 bar;

- 2 x Skum 1 200 m³/hr water/foam/fog monitors, remote controlled;
- Hose flushing facility on deck;
- Bollard pull - 60 t.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

- GLOBE ASSIMI (1981), Klaipeda port, 16 493 t of fuel oil.

On 23 November 2001, due to extreme weather conditions, the breaking of the underwater oil filler pipe during the oil transfusion in Butinge Oil Terminal caused a 59 t oil spill into the sea. Each year, inside the Klaipeda port area and near the quays is a small pollution occurs. On 6 December 1999, the first oil spillage took place in the Butinge terminal. Approximately 4 t of oil was spilled out. On 6 March 2001, there was a similar accident and about 3.5 t of oil was spilled then. On 31 January 2008, – around 7.6 t of oil.

4. REGIONAL AND BILATERAL AGREEMENTS

- Helsinki Convention
- MARPOL 73/78
- ORPC Convention - International Convention on Oil Pollution Preparedness, Response and Co-operation
- Intergovernmental agreement between the Governments of the Russian Federation and Lithuania on joint actions of preventing pollution of the Baltic Sea with oil and other hazardous materials

5. DRILLS AND EXERCISES

2009

- International oil spill response exercise BALEX DELTA 2009 in the Latvian waters. Participated: oil-pollution-combating vessels and observers from HELCOM countries and from EMSA.
- National oil spill response exercise. Participated: MRCC and vessel ŠAKIAI of the LT NAVY, Butinge oil terminal forces, tugboats: SMIT SULAWESI and TAK-3.

2010

- National exercise oil spill response exercise. Participated: MRCC and vessel ŠAKIAI of the LT NAVY, helicopter, Butinge oil terminal forces, tugboats: SMIT SULAWESI and TAK-3.
- LIT NAVY fleet oil spill response exercise. Participated: MRCC of the LT NAVY, LT NAVY vessels: ŠAKIAI ir PL AUKŠTAITIS (P14).
- International (Regional) SAR and oil spill response exercise RU-POL-LIT SAREX 2010 in the south-eastern Baltic sea part. Participated vessels and MRCC staffs from Russian, Lithuanian, Poland countries.
- International oil spill response exercise BALEX DELTA 2010 in the Lithuanian territorial waters. Participated: oil-pollution-combating vessels and observers from HELCOM countries and from EMSA

2011

- National oil spill response and SAR exercise. Participated: MRCC and vessel ŠAKIAI of the



- Lithuanian NAVY, Butinge oil terminal forces, tugboats: SOLL TENGIZ and TAK-3.
- International (Regional) oil spill response exercise RU-POL-LIT ZATOKA 2011. Participated MRCC staffs from Russian, Lithuanian, Poland countries.
 - International oil spill response exercise BALEX DELTA 2011 in the Denmark territorial waters. Participated: oil-pollution-combating vessels and observers from HELCOM countries and from EMSA
 - Lithuanian Navy is responsible for coordinating and conducting oil contingency abolishment operations from 1 January 2009.

SAKIAI

LOCATION	Klaipeda
OPERATIONS	Offshore

VESSEL

Class	Multipurpose vessel
LOA (m)	56.4
Breadth (m)	10.5
Draught (m)	4.65
GT (tonnes)	1350
Average speed (kn)	9.5
Age of vessel	25
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	3 t – max 7 m 1,8 t max – max 12 m 3,1 t – 1,8 m 0,8 t – 6,9 m
Total storage capacity (m ³)	228
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 1 LAMOR free floating brush skimmer
- 2 Terminator skimmer
- Ro-Boom 1 500, 2 x 200 m.

MADELEINE

LOCATION	Port of Nida / Port of Klaipeda
OPERATIONS	Coastal

VESSEL

Class	Patrol Vessel
LOA (m)	22.5
Breadth (m)	5.4
Draught (m)	1.7
GT (tonnes)	74
Average speed (kn)	9
Age of vessel	39
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1 t - 6 m 9 t - 2 m
Total storage capacity (m ³)	25
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Disk skimmer Vikoma Komara 12 m³
- 25 bags with capacity 1 m³ each

SOLL TENGIZ

LOCATION	Klaipeda port/ Butinge terminal by SPM buoy.
OPERATIONS	Offshore

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	48
Breadth (m)	13
Draught (m)	4.83
GT (tonnes)	896
Average speed (kn)	13.5
Age of vessel	13
IMO No.	9269300

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2 t - 16 m 4 t - 8 m
Total storage capacity (m ³)	100
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Ro-Boom 1 500 - 250 m;
- LAMOR brush skimmer free floating LFF 100 2C
- 100 m³/h
- Dispersant spray system



Sakiai 6



Sakiai and TAK3



Sakiai and TAK3



Sakiai and TAK3





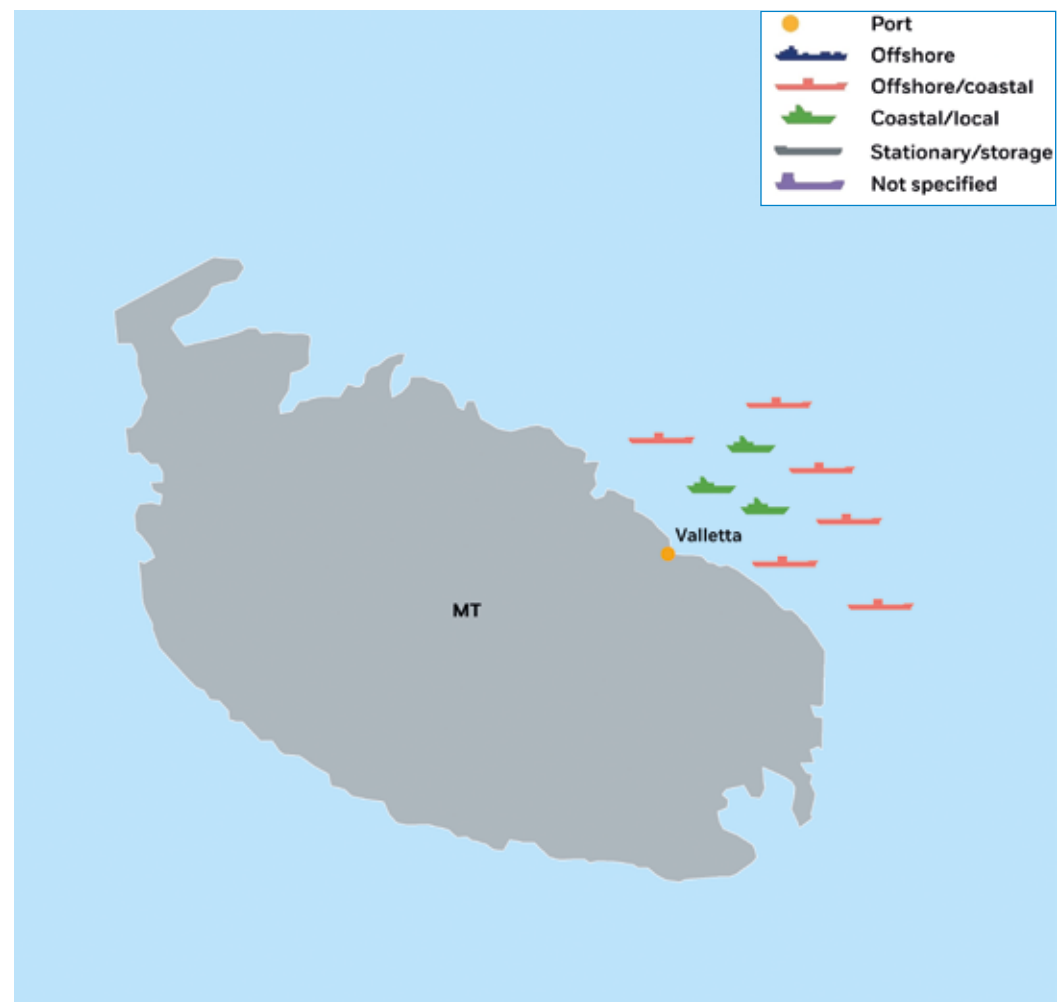
MALTA

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Authority for Transport in Malta

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

■ Valletta



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

No information provided.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

No information provided.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

The Authority for Transport Malta has entered into an agreement with Tug Malta Ltd as part of the harbour towage agreement to load and operate the Authority's offshore equipment.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

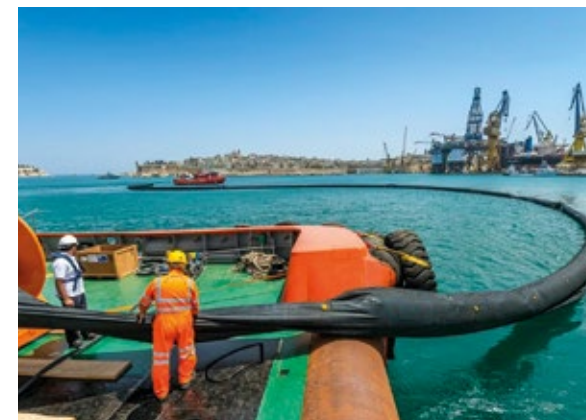
No information provided.

4. REGIONAL AND BILATERAL AGREEMENTS

No information provided.

5. DRILLS AND EXERCISES

Towing of booms with EMSA vessels - BALLUTA BAY and SANTA MARIA and Tug ST. ELMO during EMSA Quarterly drills and annual Maltex Exercise



Stephen Galea - TM 067

**CMS SEADOG**

LOCATION	Valletta
OPERATIONS	Offshore/Coastal

VESSEL

Class	Utility vessel
LOA (m)	30.84
Breadth (m)	6.1
Draught (m)	2.4
GT (tonnes)	136
Average speed (kn)	12.5
Age of vessel	35
IMO No.	8015415

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2
Total storage capacity (m ³)	15
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Vikoma Komara sea skimmer 50 system 50 m³/hr

SEAWOLF 2

LOCATION	Valletta
OPERATIONS	Offshore/Coastal

VESSEL

Class	Workboat/ self propelled 'A' Frame Barge
LOA (m)	20
Breadth (m)	9
Draught (m)	2
GT (tonnes)	121.94
Average speed (kn)	7
Age of vessel	44
IMO No.	7225128

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2
Total storage capacity (m ³)	5
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 300 m Oil containment floating booms

SPINOLA

LOCATION	Valletta
OPERATIONS	Offshore/Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	36.65
Breadth (m)	13.6
Draught (m)	6.60
GT (tonnes)	707
Average speed (kn)	13.2
Age of vessel	6
IMO No.	9495258

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2.5 t / 10 m reach
Total storage capacity (m ³)	210
Heated storage (m ³)	Yes, however steam generator for heating coils not available

ANTI-POLLUTION EQUIPMENT

- LAMOR multi skimmer capacity 150m³
- Heavy duty boom type HDB 2 000 /200 m
- Inflatable light oil boom type ILB 1200/100 m
- Booms stowed on hydraulic driven reels
- 2 diesel driven inflators/deflators
- Hoses and towing attachments for the booms

PAWLINA

LOCATION	Valletta
OPERATIONS	Offshore/Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	30.6
Breadth (m)	11.2
Draught (m)	5.5
GT (tonnes)	323
Average speed (kn)	13.5
Age of vessel	9
IMO No.	9237929

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

-

SEA SALVOR

LOCATION	Valletta
OPERATIONS	Offshore/Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	29.95
Breadth (m)	10.2
Draught (m)	5
GT (tonnes)	323
Average speed (kn)	12.5
Age of vessel	13
IMO No.	9203100

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2.5
Total storage capacity (m ³)	34.2
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

<ul style="list-style-type: none"> Clear Spray 50 dispersant system with a capacity 50l/min at 10bar

ST. ELMO

LOCATION	Valletta
OPERATIONS	Offshore/Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	30.25
Breadth (m)	11.72
Draught (m)	5.33
GT (tonnes)	455
Average speed (kn)	13.4
Age of vessel	4
IMO No.	9594999

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2.1 t / 12 m reach
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

-

**MARI**

LOCATION	Valletta
OPERATIONS	Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	32.83
Breadth (m)	9.5
Draught (m)	4.3
GT (tonnes)	292
Average speed (kn)	13.3
Age of vessel	32
IMO No.	8216851

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	No
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

-

WENZINA

LOCATION	Valletta
OPERATIONS	Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	24.55
Breadth (m)	11.49
Draught (m)	4.59
GT (tonnes)	207
Average speed (kn)	13.1
Age of vessel	9
IMO No.	9364124

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	No
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

-

LIENI

LOCATION	Valletta
OPERATIONS	Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	28
Breadth (m)	9.8
Draught (m)	4.5
GT (tonnes)	267
Average speed (kn)	12.9
Age of vessel	24
IMO No.	8922333

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	No
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

-





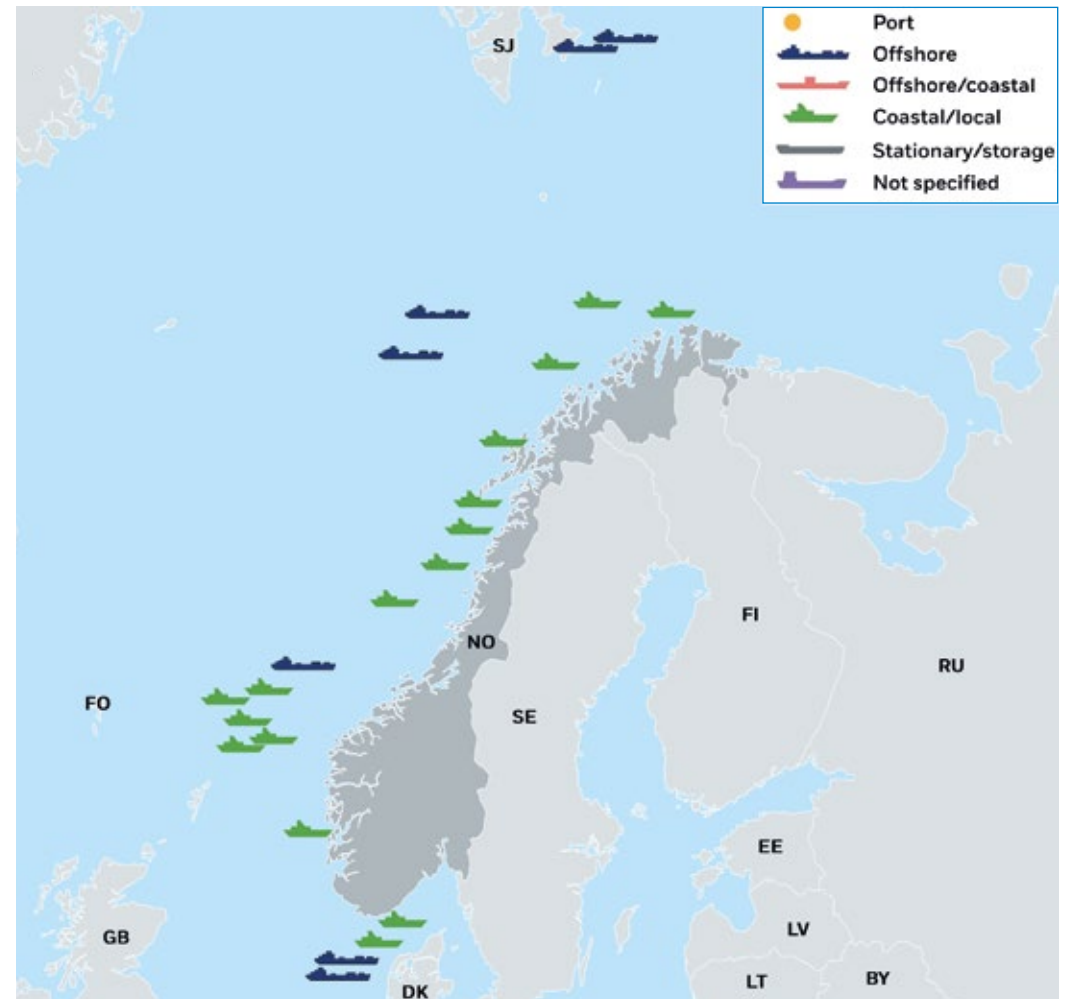
NORWAY

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Norwegian Coastal Authority (NCA)

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Mid/North Norway
- Nordland
- North Norway
- North Norway/Svalbard
- North Sea,(South)
- South Norway
- South-East Norway
- Svalbard
- The Norwegian Sea
- The Norwegian Sea (North)
- Troms and Finnmark
- West Norway



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

The Norwegian Government, through the Ministry of Fisheries and the Norwegian Coastal Administration (NCA), own or operate oil spill response vessels in coordination with local authorities and the Royal Norwegian Coast Guard (NOCG). In addition, the Norwegian preparedness system is based on the use of vessels of opportunity to be chartered for use during actual spill response operations. The vessels of opportunity will be chartered from the substantial fleet of offshore supply vessels, fishing vessels, tugs and ferries or indeed any vessel deemed suitable for oil spill response operations. Several annual exercises take place in which these vessels are chartered to take part.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

The oil spill response equipment for the vessel of opportunity system is stored in NCA equipment depots along the coast. In total, NCA has approximately 43 000 m of oil booms (heavy, medium and lightweight), 32 sweep booms (Buster type), approximately 120 oil skimmers, hydraulic power packs, storage tanks, beach-cleaning equipment, etc. stored at all the depots. The 16 main depots are located at: Horten, Kristiansand, Stavanger, Bergen, Fedje, Florø, Solund, Ålesund, Ørlandet, Sandnessjøen, Bodø, Lødingen, Tromsø, Hammerfest, Vadsø and Longyearbyen. At each

of these depots there are typically between 800 and 1 000 m of heavy weight (offshore) oil booms (e.g. NO80), between 800 and 1 000 m of medium weight (coastal) oil booms (e.g. NO 450, Expandi 4 300) and a varied collection of skimmers and storage tanks. This equipment is all designed and suitable for at sea response operations. In addition to the main depots there are 9 secondary (intermediate) depots at which NCA owned equipment is stored at the local inter-municipal contingency region. This equipment includes medium weight oil booms (300 – 600 m) and two oil skimmers.

In addition, the NCA operates one surveillance aircraft equipped with FLIR, SLAR and IR/UV, and utilises satellite surveillance in selected areas.

The Norwegian municipalities have their own requirement to store and maintain equipment suitable for typical oil spill scenarios within the municipality. In order to achieve a more cost-effective solution to purchasing expensive equipment, and to the upkeep of a desired level of proficiency the municipalities are organised into 33 inter-municipal contingency regions (IUA). The oil spill response equipment available to the IUAs and municipalities is generally smaller, medium- and lightweight booms, smaller oil skimmers, beach-cleaning equipment, etc.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

According to the Norwegian Pollution Control Act, private parties involved in activities that may result in oil spills must be prepared to respond and recover lost oil. A further aspect of the Norwegian spill preparedness law is that private companies are required to work together in their preparation and response to pollution incidents. In order to meet this co-operation requirement for their exploration and production operations, the Norwegian oil companies joined in 1978 to create an association now called the Norwegian Clean Seas Association for Operating Companies (NOFO). NOFO is a relatively small organisation with access to a great amount of equipment and manpower. A special pool of large supply vessels, operating between the coast and the offshore areas, provides the necessary vessels. Since July 2001, NOFO's area of responsibility has been widened from the seas around the offshore oil fields to the coastal waters and even to onshore response.

As a result of this overall system, there is no need for, and there are no, private contractors operating specialised oil spill response equipment in Norway. However, once spilled oil comes ashore, private companies/contractors may be called in to augment the inter-community equipment resources.

NOFO has created a pool of vessels available for pollution response. It is important to note is that these vessels are not dedicated to oil spill response, but carry out regular tasks (supply, etc.) for the operator on a daily basis. If an incident should occur,



the NOFO members have committed themselves, without further negotiation, to make these vessels available to NOFO, even if the vessel in question is scheduled for other tasks. Vessels currently in the NOFO pool (May 2008) are as follows:

The vessels Stril Poseidon, Havilla Troll, Havilla Runde and Strilmøy carry NOFO pollution response equipment on board. In the Barents Sea, the equipment and vessels will be changed based on the activity in the area. All NOFO vessels participate in annual exercises in order to maintain their NOFO contingency role.

For further details about NOFOs resources, see: www.nof.no/

The private resources available in Norway are belonging to the approximately 80 private companies that have received contingency requirements from the authorities. The number includes the offshore operating companies, refineries and oil terminals. The offshore operating companies own the Norwegian Clean Seas Association for Operating Companies.

The oil refineries at Slagentangen in the Oslofjord (Exxon/Mobile), and Mongstad north of Bergen (StatoilHydro), and the oil terminal at Sture north of Bergen (StatoilHydro) all have oil spill response equipment and vessels suitable for near shore response operations. In addition, they have a limited amount of dispersants.

At some of the offshore oil production installations, dispersants and oil recovery equipment are available as at-field (first line) response resources and are stored on-board rescue vessels, etc. at the oil fields.

NOFO maintains an inventory of equipment which is designated for offshore use. In total, NOFO have 14 offshore recovery systems, each consisting of 400 m heavy weight (offshore) booms and one TransRec 350 oil skimmer. The TransRec skimmer can work with either a weir or a HiWax skimmer head. This equipment is stored at 5 depots located in: Stavanger, Mongstad, Kristiansund, Træna and Hammerfest. To mobilise the equipment on vessels, NOFO maintains a list of dedicated vessels that may be called upon for oil spill response operations, all built according to the OilRec classification and the NOFO standard (regarding recovered oil capacities and equipment connections). In total, some 20-30 vessels are currently available in the NOFO pool.

Furthermore, NOFO maintains dispersant preparedness via a location in mid-Norway (Haltenbanken).

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

- BRAVO (1977), 32 200 t crude oil
- ROCKNES (2004), 450 t heavy crude oil
- STATFORD A (2007), 4 000 t crude oil
- FULL CITY (2009), 800 t heavy bunker fuel oil
- GODAFOSS (2011) 400 t Heavy bunker fuel oil

4. REGIONAL AND BILATERAL AGREEMENTS

- Bonn Agreement
- Norbrit Plan
- Copenhagen Agreement
- Bilateral agreement with the Russian Federation for the Barents Sea

5. DRILLS AND EXERCISES

The responsibility for oil spill response is divided in three; the private sector, the municipalities and the governmental response.

The private sector can be divided into offshore industry and land based industry included tank facilities.

In the regulations and permits it is stated that they should have drills and exercises. The offshore oil industry have an extensive drill/exercise plan.

NOFO is an important organization to assist the oil companies with this issue, please see: www.nof.no.

For the municipalities it is stated in their contingency plan that they should have an annual exercise and training.

OLJEVERN 01 (NCA)

LOCATION	West Norway
OPERATIONS	Coastal

VESSEL

Class	Coastal
LOA (m)	32.5
Breadth (m)	6.81
Draught (m)	2.3
GT (tonnes)	233
Average speed (kn)	9
Age of vessel	34
IMO No.	7712949

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1 t / 18,9 m
Total storage capacity (m ³)	90
Heated storage (m ³)	90

ANTI-POLLUTION EQUIPMENT

- 304 m Expandi 4 300
- Foxtail VAB 4-9
- Bandskimmer (at depot)

OLJEVERN 02 (NCA)

LOCATION	Nordland
OPERATIONS	Coastal

VESSEL

Class	Coastal
LOA (m)	32.5
Breadth (m)	6.81
Draught (m)	2.3
GT (tonnes)	233
Average speed (kn)	9
Age of vessel	33
IMO No.	7728479

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1 t / 18,9 m
Total storage capacity (m ³)	90
Heated storage (m ³)	90

ANTI-POLLUTION EQUIPMENT

- 304 m Expandi 4 300
- Foxtail VAB 4-9
- Bandskimmer (at depot)

OLJEVERN 03 (NCA)

LOCATION	South-East Norway
OPERATIONS	Coastal

VESSEL

Class	Coastal
LOA (m)	32.5
Breadth (m)	6.81
Draught (m)	2.3
GT (tonnes)	233
Average speed (kn)	9
Age of vessel	33
IMO No.	7728481

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0.5 t / 18,8 m
Total storage capacity (m ³)	90
Heated storage (m ³)	90

ANTI-POLLUTION EQUIPMENT

- 304 m Expandi 4 300
- Foxtail VAB 4-9
- Bandskimmer (at depot)

**OLJEVERN 04 (NCA)**

LOCATION	Troms and Finnmark
OPERATIONS	Coastal

VESSEL

Class	Coastal
LOA (m)	32.5
Breadth (m)	6.81
Draught (m)	2.3
GT (tonnes)	233
Average speed (kn)	9
Age of vessel	33
IMO No.	7728493

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1 t / 18,9 m
Total storage capacity (m ³)	90
Heated storage (m ³)	90

ANTI-POLLUTION EQUIPMENT

- 304 m Expandi 4300
- Foxtail VAB 4-9
- Bandskimmer (at depot)

OV UTVÆR

LOCATION	West Norway
OPERATIONS	Coastal

VESSEL

Class	Coastal
LOA (m)	44
Breadth (m)	12
Draught (m)	3.5
GT (tonnes)	907
Average speed (kn)	12
Age of vessel	3
IMO No.	96286609

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2,8 t / 21,5 m; 7 t / 11 m
Total storage capacity (m ³)	160
Heated storage (m ³)	160

ANTI-POLLUTION EQUIPMENT

- LAMOR LORS 4C sweep arms
- LAMOR LRB 150 bucket skimmer
- Foxtail 4-9, 200 m NO 450 oil boom
- 304 m Expandi 4 300
- Aptomar securus

OV SKOMVÆR

LOCATION	Nordland
OPERATIONS	Coastal

VESSEL

Class	Coastal
LOA (m)	44
Breadth (m)	12
Draught (m)	3.5
GT (tonnes)	907
Average speed (kn)	12
Age of vessel	2
IMO No.	95331189

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2,8 t / 21,5 m ; 7 t / 11 m
Total storage capacity (m ³)	160
Heated storage (m ³)	160

ANTI-POLLUTION EQUIPMENT

- LAMOR LORS 4C sweep arms
- LAMOR LRB 150 Bucket skimmer
- Foxtail VAB 4-9, 200 m NO 450 oil boom
- 304 m Expandi 4 300
- Aptomar securus

ALESUND (NOCG)

LOCATION	North Sea , (South)
OPERATIONS	Offshore

VESSEL

Class	Offshore
LOA (m)	63
Breadth (m)	11.5
Draught (m)	6.2
GT (tonnes)	1357
Average speed (kn)	12
Age of vessel	15
IMO No.	9139763

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	3.5
Total storage capacity (m ³)	765
Heated storage (m ³)	765

ANTI-POLLUTION EQUIPMENT

- 300 m NO 800R,
- TransRec 125 (high viscosity skimmer head)
- Foxtail VAB 4-9
- Emergency offloading pump TK 150

KV HARSTAD (NOCG)

LOCATION	The Norwegian Sea
OPERATIONS	Offshore

VESSEL

Class	Offshore
LOA (m)	83
Breadth (m)	15.5
Draught (m)	6
GT (tonnes)	3132
Average speed (kn)	18
Age of vessel	6
IMO No.	9312107

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	-
Total storage capacity (m ³)	1116
Heated storage (m ³)	1116

ANTI-POLLUTION EQUIPMENT

- 300 m NO 800R
- TransRec 125 (high viscosity skimmer head)
- Foxtail VAB 4-9
- 152 m Expandi 4 300
- Emergency offloading pump TK 150
- Oil detection radar

KV BARENTSHAV (NOCG)

LOCATION	The Norwegian Sea (North)
OPERATIONS	Offshore

VESSEL

Class	Offshore
LOA (m)	93
Breadth (m)	17
Draught (m)	6.5
GT (tonnes)	4025
Average speed (kn)	15
Age of vessel	2
IMO No.	9389356

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	3.5 t /17m, 8 t/6m
Total storage capacity (m ³)	1 075
Heated storage (m ³)	1 075

ANTI-POLLUTION EQUIPMENT

- 300 m NO 800R
- NorMar 200 (multi skimmer, weir, disc, brush)
- Foxtail VAB 4-9
- 304 m Expandi 4300



KV BERGEN (NOCG)

LOCATION	The Norwegian Sea (South)
OPERATIONS	Offshore

VESSEL

Class	Offshore
LOA (m)	93
Breadth (m)	17
Draught (m)	6.5
GT (tonnes)	4025
Average speed (kn)	15
Age of vessel	2
IMO No.	9389368

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	3,5 t /17m, 8 t /6m
Total storage capacity (m ³)	1 075
Heated storage (m ³)	1 075

ANTI-POLLUTION EQUIPMENT

- 300 m NO 800R
- NorMar 200 (multi skimmer, weir, disc, brush)
- Foxtail VAB 4-9
- 304 m Expandi 4 300

KV SORTLAND (NOCG)

LOCATION	The Norwegian Sea (North)
OPERATIONS	Offshore

VESSEL

Class	Offshore
LOA (m)	93
Breadth (m)	17
Draught (m)	6.5
GT (tonnes)	4025
Average speed (kn)	15
Age of vessel	1
IMO No.	9432646

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	3,5 t /17m, 8 t /6m
Total storage capacity (m ³)	1 075
Heated storage (m ³)	1 075

ANTI-POLLUTION EQUIPMENT

- 300 m NO 800R
- NorMar 200 (multi skimmer, weir, disc, brush)
- Foxtail VAB 4-9
- 304 m Expandi 4 300

KV SVALBARD (NOCG)

LOCATION	North Norway/ Svalbard
OPERATIONS	Offshore

VESSEL

Class	Offshore
LOA (m)	103.7
Breadth (m)	19.1
Draught (m)	6.5
GT (tonnes)	6375
Average speed (kn)	17
Age of vessel	9
IMO No.	8640387

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	-
Total storage capacity (m ³)	50 (Oil bags)
Heated storage (m ³)	no

ANTI-POLLUTION EQUIPMENT

- 304 m Expandi 4 300
- 2 x 25 m³ oilbags
- Foxtail VAB 2-6
- Hyd. Agg. 19 kW (HPU for foxtail)

KV NORLEN (NOCG)

LOCATION	South Norway
OPERATIONS	Coastal

VESSEL

Class	Coastal
LOA (m)	47
Breadth (m)	10.3
Draught (m)	5
GT (tonnes)	761
Average speed (kn)	12
Age of vessel	5
IMO No.	9353321

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.5
Total storage capacity (m ³)	155
Heated storage (m ³)	155

ANTI-POLLUTION EQUIPMENT

- 200 m NO 450 S oil boom
- Foxtail VAB 4-9

KV TOR (NOCG)

LOCATION	West Norway
OPERATIONS	Coastal

VESSEL

Class	Coastal
LOA (m)	47
Breadth (m)	10.3
Draught (m)	5
GT (tonnes)	761
Average speed (kn)	12
Age of vessel	4
IMO No.	9353369

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.5
Total storage capacity (m ³)	155
Heated storage (m ³)	155

ANTI-POLLUTION EQUIPMENT

- 200 m NO450 S oil boom
- Foxtail VAB 4-9

KV NJORD (NOCG)

LOCATION	Mid North Norway
OPERATIONS	Coastal

VESSEL

Class	Coastal
LOA (m)	47
Breadth (m)	10.3
Draught (m)	5
GT (tonnes)	761
Average speed (kn)	12
Age of vessel	4
IMO No.	9353357

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.5
Total storage capacity (m ³)	155
Heated storage (m ³)	155

ANTI-POLLUTION EQUIPMENT

- 200 m NO450 S oil boom
- Foxtail VAB 4-9



KV HEIMDAL (NOCG)

LOCATION	North Norway
OPERATIONS	Coastal

VESSEL

Class	Coastal
LOA (m)	47
Breadth (m)	10.3
Draught (m)	5
GT (tonnes)	761
Average speed (kn)	12
Age of vessel	5
IMO No.	9353345

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.5
Total storage capacity (m ³)	155
Heated storage (m ³)	155

ANTI-POLLUTION EQUIPMENT

- 200 m NO450 S oil boom
- Foxtail VAB 4-9

KV FARM (NOCG)

LOCATION	North Norway
OPERATIONS	Coastal

VESSEL

Class	Coastal
LOA (m)	47
Breadth (m)	10.3
Draught (m)	5
GT (tonnes)	761
Average speed (kn)	12
Age of vessel	4
IMO No.	9353333

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.5
Total storage capacity (m ³)	155
Heated storage (m ³)	155

ANTI-POLLUTION EQUIPMENT

- 200 m NO 450 S oil boom
- Foxtail VAB 4-9

POLARSYSEL (SYSELMANNEN)

LOCATION	Svalbard
OPERATIONS	Offshore

VESSEL

Class	Offshore
LOA (m)	89
Breadth (m)	18
Draught (m)	7.7
GT (tonnes)	4 324
Average speed (kn)	15
Age of vessel	28
IMO No.	9690949

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	12
Total storage capacity (m ³)	1 510
Heated storage (m ³)	1 510

ANTI-POLLUTION EQUIPMENT

- 300 m NO 35 oil boom
- Foxtail VAB 4-9
- Power Pack for foxtail
only in operation during summer months

VESTFJORD (NCA)

LOCATION	North Norway
OPERATIONS	Coastal

VESSEL

Class	Coastal
LOA (m)	31
Breadth (m)	8
Draught (m)	3.9
GT (tonnes)	267
Average speed (kn)	10.5
Age of vessel	27
IMO No.	8417651

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1 t /24 m
Total storage capacity (m ³)	150
Heated storage (m ³)	150

ANTI-POLLUTION EQUIPMENT

- Oil spill response can be transferred onboard the vessel

VILLA (NCA)

LOCATION	West Norway
OPERATIONS	Coastal

VESSEL

Class	Coastal
LOA (m)	42
Breadth (m)	10
Draught (m)	4
GT (tonnes)	554
Average speed (kn)	11.5
Age of vessel	36
IMO No.	7382641

EQUIPMENT

Crane	No
Crane capability (tonnes)	12 t derrick
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Oil spill response can be transferred onboard the vessel

LINDESNES (NCA)

LOCATION	West Norway
OPERATIONS	Coastal

VESSEL

Class	Coastal
LOA (m)	20
Breadth (m)	9
Draught (m)	1.7
GT (tonnes)	141
Average speed (kn)	18
Age of vessel	2
IMO No.	9570618

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	500 kg / 20 m
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Equipment transferred onboard at oil spills

**ONA (NCA)**

LOCATION	West Norway
OPERATIONS	Coastal

VESSEL

Class	Coastal
LOA (m)	37
Breadth (m)	8
Draught (m)	3.6
GT (tonnes)	351
Average speed (kn)	10.5
Age of vessel	26
IMO No.	8417663

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2.4 t / 21 m
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Equipment transferred onboard at oil spills.

TRÆNEN (NCA)

LOCATION	Mid/North Norway
OPERATIONS	Coastal

VESSEL

Class	Coastal
LOA (m)	26
Breadth (m)	7
Draught (m)	3.5
GT (tonnes)	187
Average speed (kn)	10
Age of vessel	34
IMO No.	7607106

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2.8 t / 7m
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Equipment transferred onboard at oil spills.





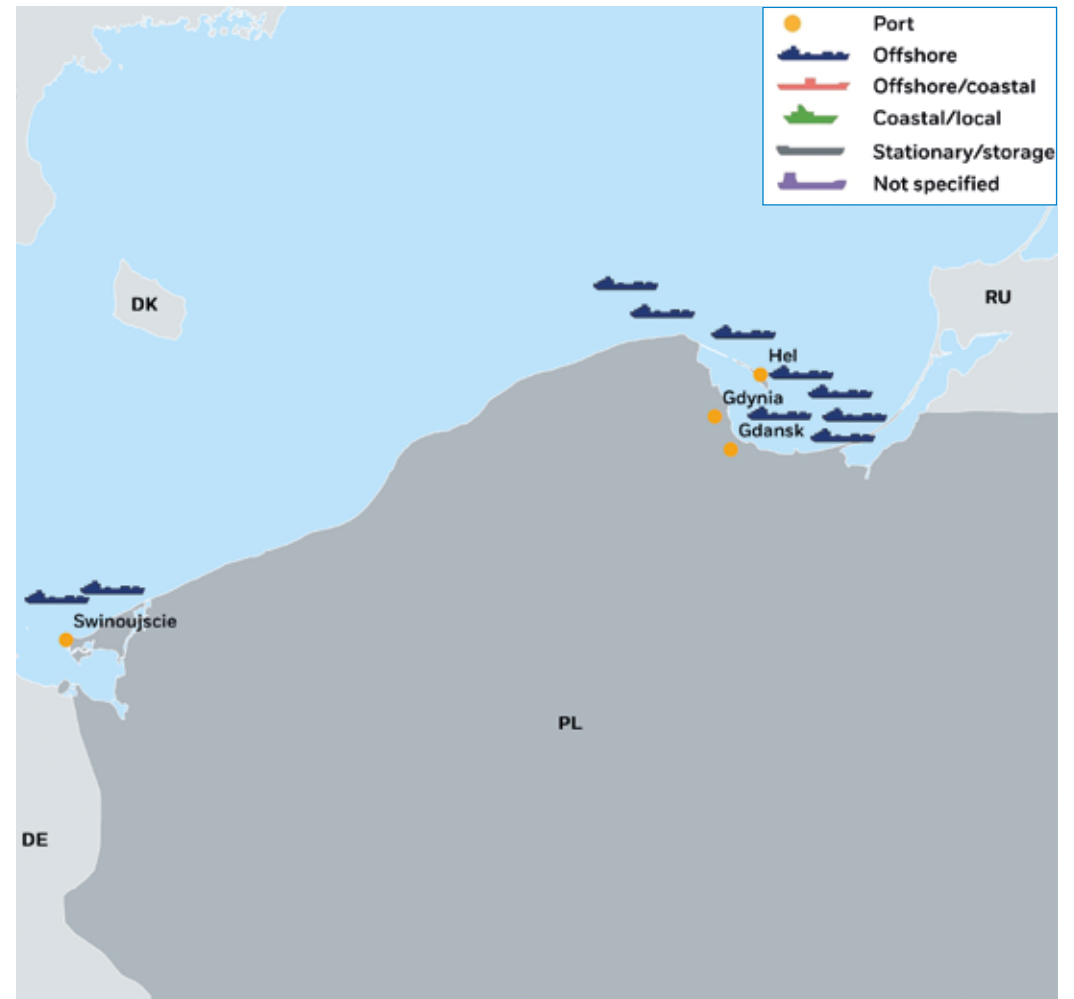
POLAND

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Ministry of Infrastructure and the Shipping
Safety Department

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Gdansk
- Gdynia
- Hel
- Świnoujście



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

No information provided.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

There are also different types of specialised antipollution equipment in Poland such as: approximately 7 000 m of different types of booms; 15 skimmer units; 7 different types of specially designed trawling nets for heavy oils; 1 mini vac system; small spraying equipment; storage facilities such as portable and floating tanks; cargo transfer pumps and auxiliary equipment for heavy oil pumping as steam rings and water flanges.

At present, there are two investment projects aimed at upgrading the oil pollution response capacity in Poland:

1) A long term project for the development of national resources approved by the Polish government in 2000. This project includes:

- The building of a new base in Świnoujście. The new oil spill response equipment will be made available in the first quarter of 2009
- The building of two rescue vessels mainly designed for SAR missions, but also to be used for oil pollution response

The new oil spill response base is in operation from 1 January 2010. This allows us to displace equipment and includes also a new washing station for the oiled equipment. Two rescue vessels could be used as the vessels of opportunity .

2) A short term project for the purchase of new equipment including: 900 m of booms, 3 skimmers, trawling nets and a number of temporary storage tanks, with two floating of 50 m³ each.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

The Oil and Gas Exploration and Production Co. Ltd. is the only firm in Poland performing exploration and production of crude oil in the Baltic Sea.

“Petrobaltic Co., Ltd” has sufficient equipment including oil booms (1 000 m), small capacity skimmers and technical support in order to provide additional support in the event of an accident. “Petrobaltic” has also five vessels (SANTA BARBARA, GRANIT, BAZALT, APHRODITE and KAMBR) located in Gdansk.

As the largest oil terminal in Poland the Oil Terminal located in the northern port in Gdansk, “NAFTOPORT”, has its own response system based on cooperation with commercial rescue units as Harbour Fire Brigade “FLORIAN” Ltd, and Maritime Fire and Rescue Brigade. Both units own equipment including: 4 500 m of different type of booms,

two high capacity skimmers, cargo transfer pumps and five fire fighting vessels. A number of small harbour tugboats is also available.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

There have been no major spills in Polish waters.

4. REGIONAL AND BILATERAL AGREEMENTS

- Helsinki Convention
- Bilateral agreement with Russia
- Bilateral agreement with Germany

5. DRILLS AND EXERCISES

Government specialised anti-pollution vessels take regularly part in international oil spill exercises like the HELCOM BALEX DELTA Exercise. They also take part in exercises organised once per year to fulfil the bilateral agreements with Germany and Russia.

**KAPITAN POINC**

LOCATION	Gdynia
OPERATIONS	Offshore

VESSEL

Class	Multipurpose vessel
LOA (m)	53.4
Breadth (m)	13.6
Draught (m)	4.6
GT (tonnes)	1 347
Average speed (kn)	10
Age of vessel	15
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	12
Total storage capacity (m ³)	512
Heated storage (m ³)	244

ANTI-POLLUTION EQUIPMENT

- Two sweeping arms
- Brush system LAMOR max 2x140 m³/h
- Free floating Terminator skimmer 100 m³/h with disc and belt adaptor for heavy oils
- Ro-Boom 1 500 oil boom (600 m)
- Expandi 4 300 oil boom (90 m)
- Sea Eye ROV

ZODIAC

LOCATION	Gdansk
OPERATIONS	Offshore

VESSEL

Class	Oil Recovery vessel
LOA (m)	61.3
Breadth (m)	10.83
Draught (m)	3.2
GT (tonnes)	751
Average speed (kn)	11
Age of vessel	29
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	7
Total storage capacity (m ³)	72
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Two sweeping arms
- Brush system LAMOR max 2x80 m³/h

CZESLAW II

LOCATION	Świnoujście
OPERATIONS	Offshore

VESSEL

Class	Oil Recovery vessel
LOA (m)	21.99
Breadth (m)	6.01
Draught (m)	2.36
GT (tonnes)	102
Average speed (kn)	7
Age of vessel	23
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0.3
Total storage capacity (m ³)	20
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Two sweeping arms
- Brush system LAMOR max 2x20 m³/h
- Komara 12k skimmer 12m³/h
- Vicospray 1 000 dispersion system
- Expandi 4 300 oil boom (340 m)

ORKAN

LOCATION	Hel
OPERATIONS	Offshore

VESSEL

Class	Search and Rescue Vessel
LOA (m)	36.9
Breadth (m)	8.1
Draught (m)	2.52
GT (tonnes)	276
Average speed (kn)	24
Age of vessel	1
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.3
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Possibility of assistance and towage of the oil spill preventing booms.

PASAT

LOCATION	Świnoujście
OPERATIONS	Offshore

VESSEL

Class	Search and Rescue Vessel
LOA (m)	36.9
Breadth (m)	8.1
Draught (m)	2.52
GT (tonnes)	276
Average speed (kn)	24
Age of vessel	1
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.3
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Possibility of assistance and towage of the oil spill preventing booms.

SANTA BARBARA

LOCATION	Gdansk
OPERATIONS	Offshore

VESSEL

Class	Research vessel
LOA (m)	78.6
Breadth (m)	13.7
Draught (m)	5.012
GT (tonnes)	2 324
Average speed (kn)	11
Age of vessel	34
IMO No.	7406021

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	20
Total storage capacity (m ³)	60
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Oil spill preventing boom with power pack and airblower – Ro-Boom DESMI 1500 – length 500 m
- Oil spill preventing boom with power pack and airblower – Ro-Boom DESMI 1500 – length 250 m
- RO-Disc Skimmer 40P – 2 pcs
- Oil spill storage tanks – 2 x 30 cbm

**GRANIT**

LOCATION	Gdansk
OPERATIONS	Offshore

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	64.54
Breadth (m)	13.81
Draught (m)	5.5
GT (tonnes)	1 313
Average speed (kn)	16
Age of vessel	31
IMO No.	7911260

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	4
Total storage capacity (m ³)	60
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Oil spill preventing boom with power pack and airblower – Ro-Boom DESMI 1500 – length 500 m
- Oil spill preventing boom with power pack and airblower – Ro-Boom DESMI 1500 – length 250 m
- RO-Disc Skimmer 40P – 2 pcs
- Oil spill storage tanks – 2 x 30 cbm

BAZALT

LOCATION	Gdansk
OPERATIONS	Offshore

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	64.54
Breadth (m)	13.81
Draught (m)	5.5
GT (tonnes)	1 313
Average speed (kn)	16.1
Age of vessel	51
IMO No.	7911636

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	4
Total storage capacity (m ³)	60
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Oil spill preventing boom with power pack and airblower – Ro-Boom DESMI 1500 – length 500 m
- Oil spill preventing boom with power pack and airblower – Ro-Boom DESMI 1500 – length 250 m
- RO-Disc Skimmer 40P – 2 pcs
- Oil spill storage tanks – 2 x 30 cbm

APHRODITE

LOCATION	Gdansk
OPERATIONS	Offshore

VESSEL

Class	Search and Rescue vessel
LOA (m)	33
Breadth (m)	6.7
Draught (m)	4
GT (tonnes)	205
Average speed (kn)	13
Age of vessel	20
IMO No.	5353426

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0.7
Total storage capacity (m ³)	No
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Possibility of assistance and towage of the oil spill preventing booms.

KAMBR

LOCATION	Gdansk
OPERATIONS	Offshore

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	36
Breadth (m)	9
Draught (m)	3.25
GT (tonnes)	299
Average speed (kn)	10.5
Age of vessel	5
IMO No.	9348223

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2
Total storage capacity (m ³)	60
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Oil spill preventing boom with power pack and airblower – Ro-Boom DESMI 1500 – length 250 m
- NOB*: 1. RO-Disc Skimmer 40P – 2 pcs
- Oil spill storage tanks – 2 x 30 cbm

* NOB: Not on board



DSC1312



DSC1360



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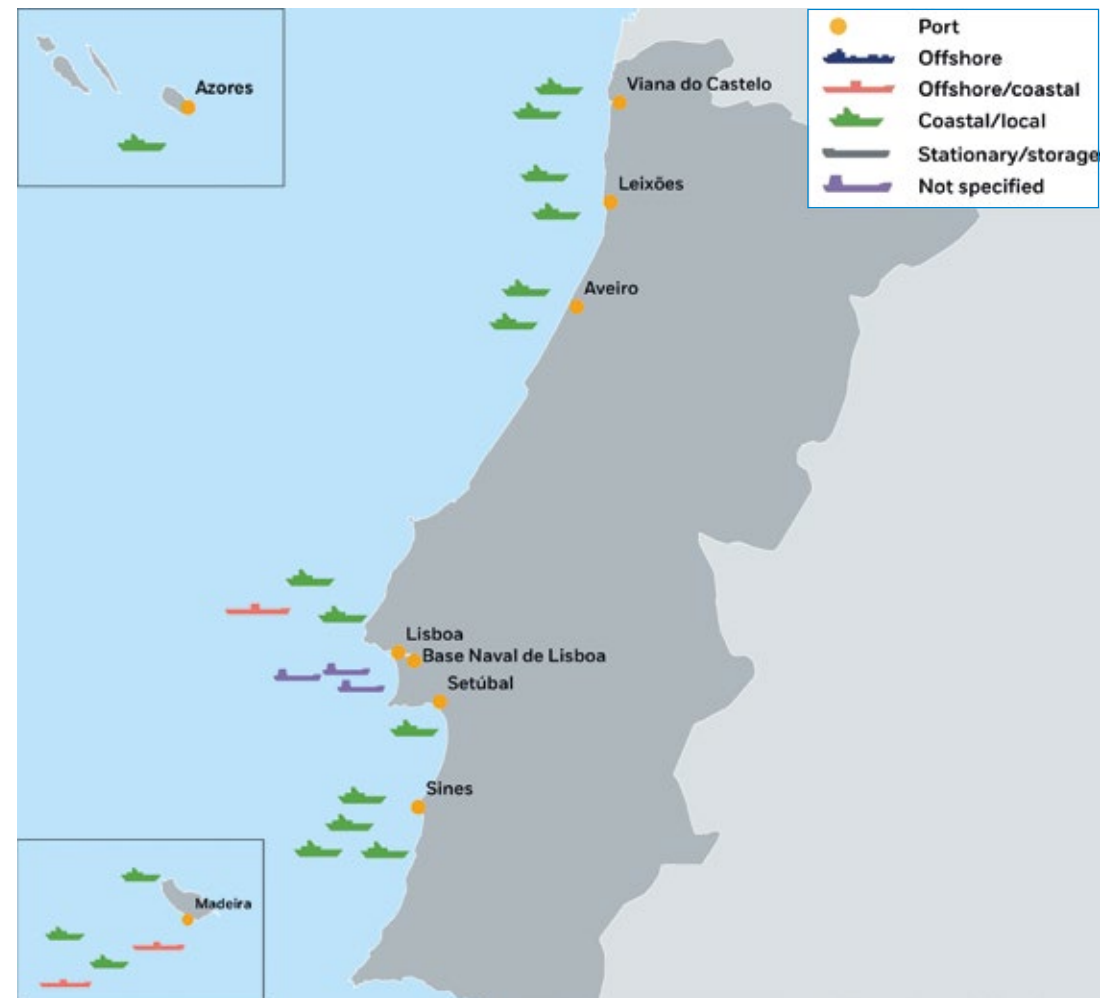
PORTUGAL

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Maritime Authority Directorate General (DGAM)

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Azores-Praia da Vitória
- Base Naval de Lisboa
- Leixões
- Lisboa
- Madeira Island
- Porto Aveiro
- Porto de Viana do Castelo
- Setúbal
- Sines



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

The Port Authority and Navy own vessels used for oil spill response in sheltered coastal areas. Stockpiles are located in all ports. The Navy has stockpiles located at Tróia, Leixões, Lisbon, Setúbal, Faro, Ponta Delgada and Funchal.

The Navy also owns equipment for anti-pollution response, such as: a mobile operation centre (1); ocean booms (2 500 m); estuary booms (4,800 m); various pumps (49); absorbent products (3 500 m); portable tanks (35); various skimmers (45); detection, protection, cutting and cleaning equipment (20); transport and handling means (36); repair container (1).

The Portuguese Navy are planning the construction of two marine patrol vessels which can act as anti-pollution vessels.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

No information provided.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

There are no known private contractors for at sea response in Portugal. Nevertheless, private oil terminals and oil handling facilities own limited equipment to respond to small spills.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

- ACOB MAERSK (1975), 88 000 t
- ARAGON (1989), 25 000 t of Mexican crude oil
- MARAO (1989), 5 000 t crude oil
- CERCAL (1994), 3 000 t of light crude

4. REGIONAL AND BILATERAL AGREEMENTS

- Lisbon Agreement (the agreement is not yet in force)
- Member of the European Community Task Force

5. DRILLS AND EXERCISES

2 drills and 1 exercise / year.

- Drill – GALEOTA 2010, CONCHA 2009 and regional exercises organized by Maritime Departments.
- Exercises – FOZ 2011, ESPADARTE 2009, MERO 2009, AUSTRAL 2008, DARQUE 2008.

**UAM 688 “ENCHENTE”**

LOCATION	Base naval de Lisboa
OPERATIONS	Local

VESSEL

Class	Oil recovery vessel
LOA (m)	17.5
Breadth (m)	5.64
Draught (m)	0.7
GT (tonnes)	Not specified
Average speed (kn)	11.5
Age of vessel	17
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	30
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Boom and oil recovery system
- Operating speed: 2 to 4 kn

UAM 687 “VAZANTE”

LOCATION	Base naval de Lisboa
OPERATIONS	Local

VESSEL

Class	Oil recovery vessel
LOA (m)	8.84
Breadth (m)	3
Draught (m)	0.86
GT (tonnes)	14.1
Average speed (kn)	8.5
Age of vessel	15
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	8
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Boom and external lori brush system
- Operating speed: 1 to 2 kn

GOLFINHO DO SADO

LOCATION	Setúbal
OPERATIONS	Local

VESSEL

Class	Oil recovery vessel
LOA (m)	12.68
Breadth (m)	4.842
Draught (m)	0.8
GT (tonnes)	17.84
Average speed (kn)	6
Age of vessel	17
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2,5 t / 1 m 0,34 t / 5,9 m
Total storage capacity (m ³)	7
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 2 lori bristle aggregate channels, each one with 4 lori oleophilic brush chains
- 2 lori skimming booms (6 m)
- 1 DESMI dop 250 transfer pump

CTE PASSOS GOUVEIA

LOCATION	Madeira Island
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	25
Breadth (m)	9
Draught (m)	4.8
GT (tonnes)	244
Average speed (kn)	11
Age of vessel	8
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1 t / 7m
Total storage capacity (m ³)	No
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Dispersant spray booms
- Container for logistic support

PONTA DO PARGO

LOCATION	Madeira Island
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	25
Breadth (m)	9.8
Draught (m)	4.3
GT (tonnes)	268
Average speed (kn)	11
Age of vessel	6
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1 t / 7m
Total storage capacity (m ³)	-
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Dispersant spray booms
- Internal power pack and universal hydraulic jacks
- Locking pins on deck for securing of O P equipment
- Nofi current boomer
- Skimmer Morris
- 20 t floating tank
- Can transport the vessel "Ecomar", listed below on board

BOQUEIRÃO

LOCATION	Madeira Island
OPERATIONS	Coastal/Local

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	20
Breadth (m)	7
Draught (m)	3
GT (tonnes)	124
Average speed (kn)	11
Age of vessel	4
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1 t / 7m
Total storage capacity (m ³)	-
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Dispersant spray booms
- Internal power pack and universal hydraulic jacks
- Locking pins on deck for securing of O P equipment



ILHÉU DE CIMA

LOCATION	Madeira Island
OPERATIONS	Coastal/Local

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	13.82
Breadth (m)	5.15
Draught (m)	2.4
GT (tonnes)	43
Average speed (kn)	8
Age of vessel	4
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1 t / 7 m
Total storage capacity (m ³)	8
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Dispersant spray booms
- Internal power pack and universal hydraulic jacks
- Locking pins on deck for securing of O P equipment
- Boom reel
- Oil discharge pump

ECOMAR

LOCATION	Madeira Island
OPERATIONS	Local

VESSEL

Class	Oil recovery vessel
LOA (m)	7
Breadth (m)	2.32
Draught (m)	0.46
GT (tonnes)	2.9
Average speed (kn)	2
Age of vessel	4
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	1
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Film skimming plate
- Solid debris 1 m³ basket
- Oil tank 1 m³
- Shore pumping equipment

PRAIA DO MOLHE

LOCATION	Leixões
OPERATIONS	Local

VESSEL

Class	-
LOA (m)	8
Breadth (m)	3.4
Draught (m)	1.5
GT (tonnes)	5.52
Average speed (kn)	3
Age of vessel	17
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	8
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Disk skimmer assembly

PRAIA DA MEMÓRIA

LOCATION	Leixões
OPERATIONS	Local

VESSEL

Class	Barge
LOA (m)	26
Breadth (m)	6.51
Draught (m)	1.7
GT (tonnes)	88.2
Average speed (kn)	Not specified
Age of vessel	19
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	200
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- No

RIA LIMPA

LOCATION	Porto de Aveiro
OPERATIONS	Local

VESSEL

Class	Multipurpose vessel
LOA (m)	12.5
Breadth (m)	4
Draught (m)	1.2
GT (tonnes)	22.7
Average speed (kn)	5
Age of vessel	17
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2.2
Total storage capacity (m ³)	27
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- No fix anti pollution equipment.
- General usage portable equipments are put onboard accordingly to the needs of each situation.

RIA AZUL

LOCATION	Porto de Aveiro
OPERATIONS	Local

VESSEL

Class	Multipurpose vessel
LOA (m)	12
Breadth (m)	3.7
Draught (m)	0.6
GT (tonnes)	14.37
Average speed (kn)	20
Age of vessel	17
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Hydraulic reel drive, with 150 m
- Vikoma SL/9858-3 inflatable barrier model
- Vikoma Seasentinel into barracks

**PORTO VIANA**

LOCATION	Porto de Viana do Castelo
OPERATIONS	Local

VESSEL

Class	Multipurpose vessel
LOA (m)	12
Breadth (m)	3.65
Draught (m)	1.2
GT (tonnes)	13.64
Average speed (kn)	25
Age of vessel	17
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- 2 x 150 m inflatable anti pollution barriers
- Vikoma Hoyle Seasentinel
- 2 air compressors for barriers
- 1 Skimmer Vikoma Komara 12K, for dynamic oil spill recovery
- 2 power pack units for skimmer
- 2 inflatable and floatable tanks 5 m³
- 2 inflatable and floatable tanks 12 m³

PORTO LIMPO

LOCATION	Porto de Viana do Castelo
OPERATIONS	Local

VESSEL

Class	Multipurpose vessel
LOA (m)	13.5
Breadth (m)	4
Draught (m)	1
GT (tonnes)	32
Average speed (kn)	5
Age of vessel	17
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.8
Total storage capacity (m ³)	27
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 2 motor pumps, 30 m³ /h for viscous products

MARCO

LOCATION	Sines
OPERATIONS	Local

VESSEL

Class	Oil recovery vessel
LOA (m)	9.32
Breadth (m)	2.35
Draught (m)	0.3
GT (tonnes)	3.7
Average speed (kn)	13.
Age of vessel	1
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	3.7
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Marco System – (Filterbelt)

MAR LIMPO

LOCATION	Sines
OPERATIONS	Local

VESSEL

Class	Oil recovery vessel
LOA (m)	14.9
Breadth (m)	5.39
Draught (m)	1.6
GT (tonnes)	48.07
Average speed (kn)	8
Age of vessel	24
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2.2
Total storage capacity (m ³)	18
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- OMI System

MARÉ AZUL

LOCATION	Sines
OPERATIONS	Local

VESSEL

Class	Oil recovery vessel
LOA (m)	15.5
Breadth (m)	5.32
Draught (m)	1.34
GT (tonnes)	32.23
Average speed (kn)	8
Age of vessel	16
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.48
Total storage capacity (m ³)	20.8
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Lors system

PRAIA AZUL

LOCATION	Sines
OPERATIONS	Local

VESSEL

Class	Oil recovery vessel
LOA (m)	9.9
Breadth (m)	3.2
Draught (m)	0.26
GT (tonnes)	3.77
Average speed (kn)	15
Age of vessel	16
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	2.2
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Lors system

**LAIBEQUE**

LOCATION	Lisboa
OPERATIONS	Not Specified

VESSEL

Class	Multipurpose vessel
LOA (m)	14.6
Breadth (m)	Not Specified
Draught (m)	Not Specified
GT (tonnes)	Not Specified
Average speed (kn)	Not Specified
Age of vessel	Not Specified
IMO No.	-

EQUIPMENT

Crane	Not Specified
Crane capability (tonnes)	Not Specified
Total storage capacity (m ³)	Not Specified
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Not Specified

AMETISTA

LOCATION	Lisboa
OPERATIONS	Not Specified

VESSEL

Class	-
LOA (m)	18
Breadth (m)	Not Specified
Draught (m)	Not Specified
GT (tonnes)	Not Specified
Average speed (kn)	Not Specified
Age of vessel	Not Specified
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	Not Specified
Total storage capacity (m ³)	Not Specified
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Not Specified

ALCAMÉ

LOCATION	Lisboa
OPERATIONS	Not Specified

VESSEL

Class	Barge
LOA (m)	7.5
Breadth (m)	Not Specified
Draught (m)	Not Specified
GT (tonnes)	Not Specified
Average speed (kn)	Not Specified
Age of vessel	Not Specified
IMO No.	-

EQUIPMENT

Crane	Not Specified
Crane capability (tonnes)	Not Specified
Total storage capacity (m ³)	Not Specified
Heated storage (m ³)	Not Specified

ANTI-POLLUTION EQUIPMENT

- Dispersants spray equipment

N.R.P. SCHULTZ XAVIER

LOCATION	Base Naval de Lisboa
OPERATIONS	Offshore/Coastal

VESSEL

Class	Multipurpose vessel
LOA (m)	56
Breadth (m)	10
Draught (m)	3.8
GT (tonnes)	900
Average speed (kn)	12.5
Age of vessel	39
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	12
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Dispersants spray equipment

O BRAVO

LOCATION	Azores-Praia da Vitória
OPERATIONS	Local

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	26.09
Breadth (m)	7.94
Draught (m)	4.05
GT (tonnes)	183
Average speed (kn)	11
Age of vessel	7
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Dispersants spray equipment





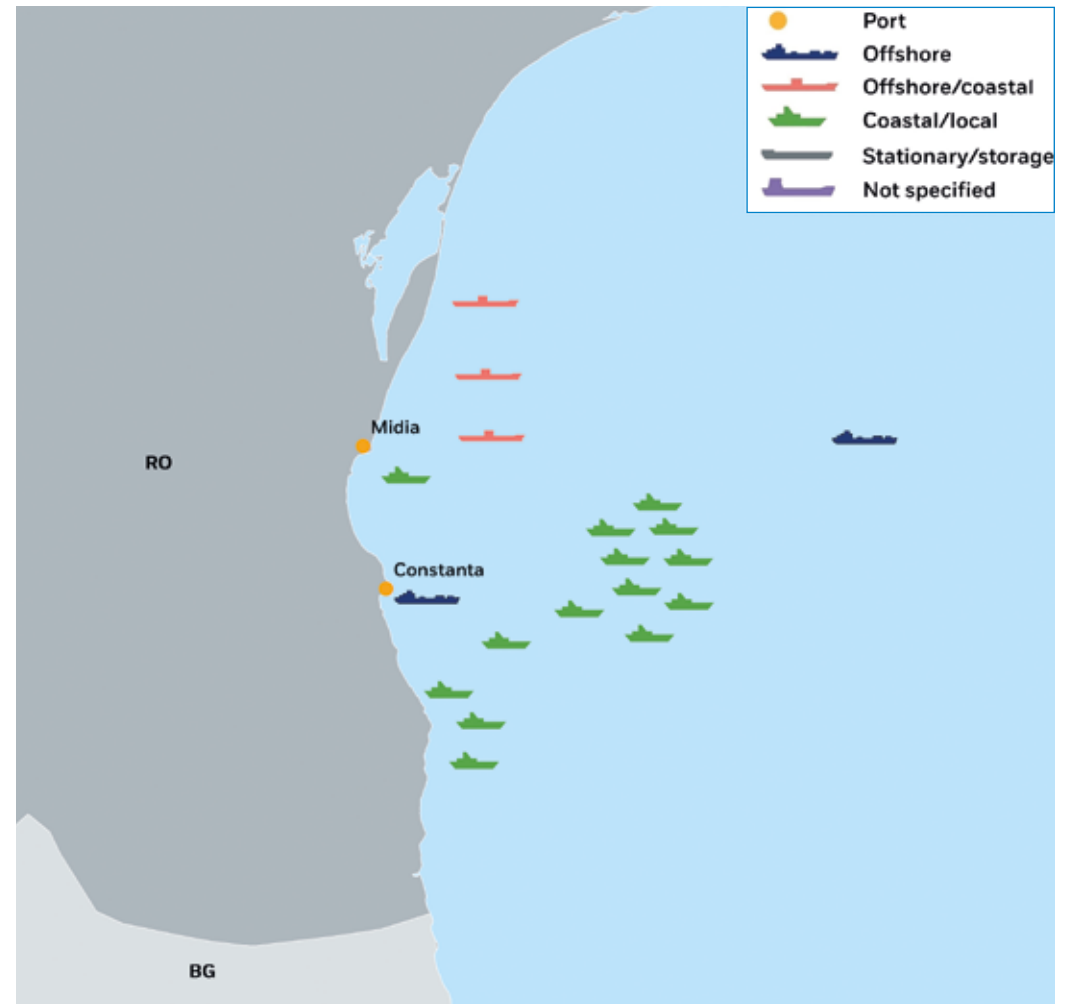
ROMANIA

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Ministry of Environment and Climate Changes,
Ministry of Transport, Ministry of Internal Affairs and
Constanta County Prefect

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Constanta
- Midia



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

No information provided.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

Limited stockpiles of equipment for at-sea response are held by the National Agency for Search & Rescue Constanta, the National Maritime Port Administration in Constanta. Their response equipment includes booms, skimmers, oil storage facilities, pumps and auxiliary vessels. The Border Police and Romanian Navy can also provide a range of vessels and personnel to support the response if needed.

Resources operated by Romanian SAR Agency and Maritime Port Administration also include different types of specialised antipollution equipment, such as:

- 3 300 m sea boom type Ro-Boom 1300
- 2 000 m coastal boom type Ro-Boom 1500
- 1 700 m off-shore floating booms C 600
- 1 000 m floating booms Courtain
- 10 storage tanks for oil recovered (25 cm each)
- 2 pcs DESMI Terminator Weir skimmer 130 m³/h
- 5 pcs DESMI Termite Weir skimmer 20 m³/h
- 6 t biodegradable absorbent products
- 350 absorbents pads

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

In addition to these, there are a number of resources operated by private companies and the local oil industry (oil terminal, oil handling facilities) who own limited equipment to respond to small spills. There are some private contractors, representatives of some foreign specialised response companies that could provide, on request, equipment for open sea response actions.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

There have been no major spills in Romanian waters.

4. REGIONAL AND BILATERAL AGREEMENTS

- Bucharest Convention
- The Strategic Action Plan for the Rehabilitation and Protection of the Black Sea
- Black Sea Regional Contingency Plan
- The Strategic Action Plan for the Rehabilitation and Protection of the Black Sea
- Black Sea Regional Contingency Plan

5. DRILLS AND EXERCISES

National level: First national complex exercise (SAR-oil pollution-HNS) was organised in 2004. Starting in 2007, Romania organised table-top or operational exercises every year.

Regional level: The Advisory Group on Environmental Safety Aspects of Shipping, within Black Sea Commission, was established the long-term Plan for the Oil spill response exercises in the Black Sea. The principle for Alpha exercises is clock-wise geographically, for Delta – also the clock-wise mode was chosen, once per two years. The Bravo exercises go in alphabetically order, on a quarterly basis.

EU level: Romania participated to all communication exercises organised by MIC, via e-mail or through CECIS system.

ARSVOM Constanta (government dedicated company for at sea oil pollution response) organise exercises according their annual programme – equipment deployment every 2 months.

Until now, Romania initiated two BRAVO exercises (in 2008 and 2010) and hosted the second DELTA regional exercise in Black Sea, RODELTA 2009, with participation of two EMSA - OSRV.

**HERCULES**

LOCATION	Constanta
OPERATIONS	Offshore

VESSEL

Class	Multipurpose vessel
LOA (m)	68.55
Breadth (m)	16.5
Draught (m)	6.5
GT (tonnes)	2 388
Average speed (kn)	9
Age of vessel	23
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- 1,200 m Ro-Boom 1 500
- DESMI Termite skimmer - 1 pc
- DESMI Terminator - 1 pc
- ENVIROPEAT absorbent product - 800kg
- Fire-fighting pumps
- Ice-breaker

MARINA 1

LOCATION	Constanta
OPERATIONS	Coastal

VESSEL

Class	Research vessel
LOA (m)	30
Breadth (m)	6.5
Draught (m)	2.2
GT (tonnes)	140
Average speed (kn)	15
Age of vessel	7
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Sampling

SAFIR

LOCATION	Constanta
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	18.7
Breadth (m)	4.95
Draught (m)	1.5
GT (tonnes)	46
Average speed (kn)	16
Age of vessel	9
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Used for boom towing
- ENVIROPEAT absorbent product - 748kg

RUBIN

LOCATION	Constanta
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	18.8
Breadth (m)	4.95
Draught (m)	1.5
GT (tonnes)	46
Average speed (kn)	16
Age of vessel	9
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Used for boom towing
- ENVIROPEAT absorbent product - 748 kg

CRISTAL

LOCATION	Constanta
OPERATIONS	Coastal

VESSEL

Class	Oil recovery vessel
LOA (m)	18.9
Breadth (m)	4.95
Draught (m)	1.5
GT (tonnes)	46
Average speed (kn)	16
Age of vessel	9
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Used for boom towing
- ENVIROPEAT absorbent product - 748 kg

STEAUA DE MARE 1

LOCATION	Constanta
OPERATIONS	Coastal

VESSEL

Class	Fishing vessel
LOA (m)	25.8
Breadth (m)	7.22
Draught (m)	2.91
GT (tonnes)	134
Average speed (kn)	7
Age of vessel	34
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0.5
Total storage capacity (m ³)	40
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Can be used for transport and deploying booms

**MSV TIRRENO**

LOCATION	Midia
OPERATIONS	Offshore/Coastal

VESSEL

Class	Offshore supply
LOA (m)	32
Breadth (m)	11.6
Draught (m)	5.36
GT (tonnes)	466
Average speed (kn)	12
Age of vessel	9
IMO No.	9359181

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	4.5
Total storage capacity (m ³)	190
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Used for transport, deploying booms and recover oil activities
- Sea boom type Vikoma HD 800 with 370 m length and hydraulic Skimer
- 6 high power magnets type MIKO
- 2 storage barges (50m³)
- Recover oil tank (150 m³)
- Dispersant tank (2.57 m³)
- Absorbent booms & sample kit
- 3 GPS Buoy

LINE RUNNER BUCURESTI/ BLUEBIRD

LOCATION	Midia
OPERATIONS	Offshore/Coastal

VESSEL

Class	Offshore supply
LOA (m)	26.09
Breadth (m)	7.94
Draught (m)	4.05
GT (tonnes)	186
Average speed (kn)	10.0
Age of vessel	8
IMO No.	9412191

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.6 t / 2.94 m
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Used for transport, deploying booms and recover oil activities
- Sea boom type Vikoma Hi Sprint 1500 with 250m length and hydraulic Skimer FOILEX TDS 200
- Absorbent pads
- 100 m port boom type MP 500
- 200 m port boom type MP 750
- 2 skimmers
- Absorbent booms & pom-pom

LINE RUNNER ASTANA/STARLING

LOCATION	Midia
OPERATIONS	Offshore/Coastal

VESSEL

Class	Offshore supply
LOA (m)	26.09
Breadth (m)	7.94
Draught (m)	4.05
GT (tonnes)	186
Average speed (kn)	10.0
Age of vessel	9
IMO No.	9414204

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.6 t / 12.94 m
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Used, in tandem with Line Runner Bucuresti deploying booms and recover oil activities

ZIMBRU 3

LOCATION	Constanta
OPERATIONS	Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	35.76
Breadth (m)	10.8
Draught (m)	4.24
GT (tonnes)	464
Average speed (kn)	7
Age of vessel	29
IMO No.	8861228

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Not Specified

ZIMBRU 4

LOCATION	Constanta
OPERATIONS	Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	35.76
Breadth (m)	10.8
Draught (m)	4.24
GT (tonnes)	464
Average speed (kn)	7
Age of vessel	29
IMO No.	8861230

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Not Specified

ALEXANDRIA 4

LOCATION	Constanta
OPERATIONS	Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	35.81
Breadth (m)	9.71
Draught (m)	3.35
GT (tonnes)	354
Average speed (kn)	10
Age of vessel	34
IMO No.	8037839

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Not Specified

**ALEXANDRIA 5**

LOCATION	Constanta
OPERATIONS	Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	35.81
Breadth (m)	9.71
Draught (m)	3.35
GT (tonnes)	385
Average speed (kn)	8
Age of vessel	33
IMO No.	8523228

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Not Specified

GALATI 4

LOCATION	Constanta
OPERATIONS	Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	35.81
Breadth (m)	9.71
Draught (m)	3.35
GT (tonnes)	333
Average speed (kn)	8
Age of vessel	27
IMO No.	8861307

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Not Specified

GALATI 5

LOCATION	Constanta Constanta
OPERATIONS	Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	35.79
Breadth (m)	9.69
Draught (m)	3.35
GT (tonnes)	333
Average speed (kn)	8
Age of vessel	25
IMO No.	8861319

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Not Specified

METEOR

LOCATION	Constanta
OPERATIONS	Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	16.56
Breadth (m)	5.5
Draught (m)	1.91
GT (tonnes)	46
Average speed (kn)	9
Age of vessel	6
IMO No.	-

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Not Specified

GALATI 6

LOCATION	Constanta
OPERATIONS	Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	35.81
Breadth (m)	9.69
Draught (m)	3.35
GT (tonnes)	333
Average speed (kn)	8
Age of vessel	24
IMO No.	8861321

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Not Specified

GALATI 7

LOCATION	Constanta
OPERATIONS	Coastal

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	35.75
Breadth (m)	9.7
Draught (m)	3.35
GT (tonnes)	333
Average speed (kn)	10
Age of vessel	23
IMO No.	8938409

EQUIPMENT

Crane	No
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Not Specified



Hercules



Hercules



Hercules



Hercules



MAI 1105



Cristal and Safir





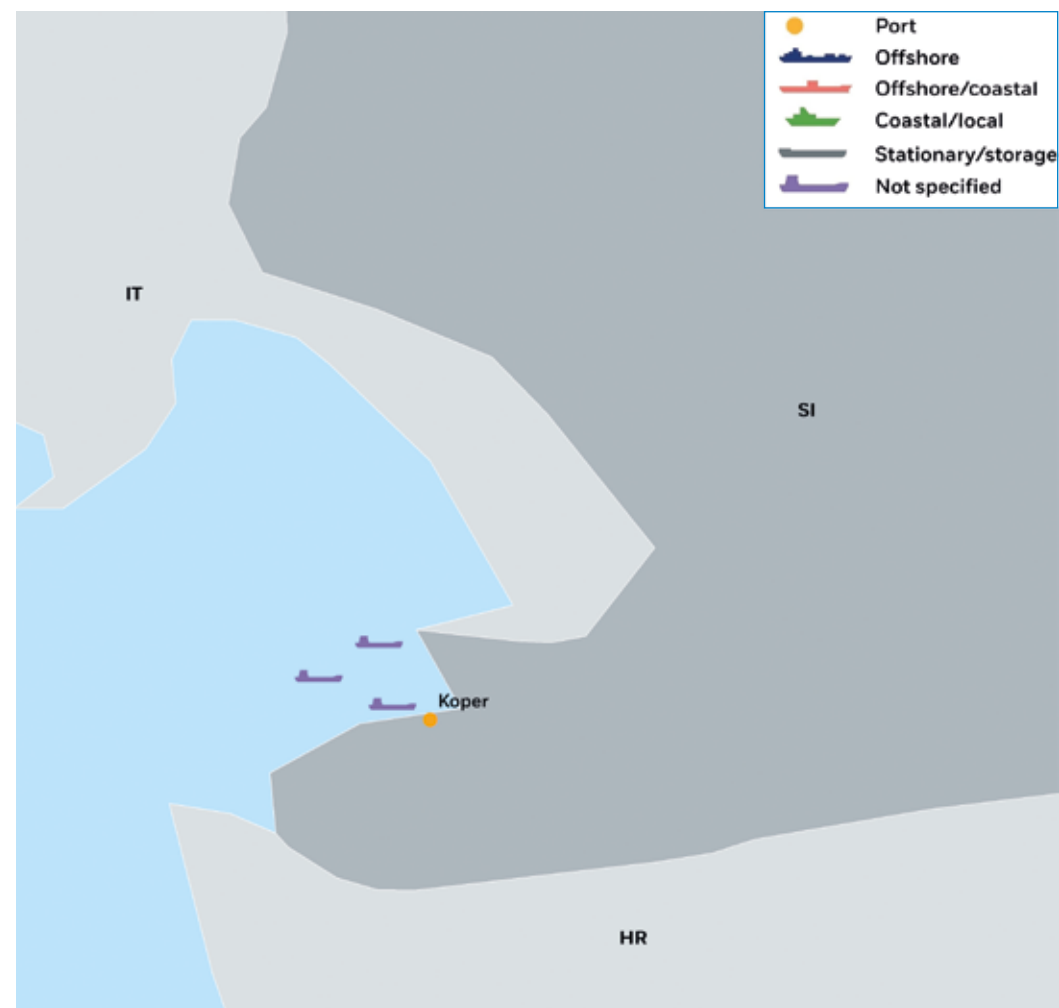
SLOVENIA

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

No information provided.

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

■ Koper



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

No information provided.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

Tug boat ZEUS: storage capacity 1200 m³.

Tug boat MAKs: storage capacity 1200 m³.

Tug boat NEPTUN: storage capacity 500 m³.

Tug boat SIRIUS: storage capacity 500 m³.

Tug boat WOTAN storage capacity 500 m³.

More information please see: www.Adria-tow.si/flota

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

There have been no major oil pollution incidents in Slovenian waters.

4. REGIONAL AND BILATERAL AGREEMENTS

- Barcelona Convention.

5. DRILLS AND EXERCISES

Last big exercises in 2011/ smaller every year.

**KP - 10**

LOCATION	Koper
OPERATIONS	Not Specified

VESSEL

Class	Rescue vessel
LOA (m)	13.7
Breadth (m)	4.3
Draught (m)	0.8
GT (tonnes)	-
Average speed (kn)	40
Age of vessel	16
IMO No.	-

EQUIPMENT

Crane	-
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

-

KP - 580

LOCATION	Koper
OPERATIONS	Not Specified

VESSEL

Class	Rescue vessel
LOA (m)	6.5
Breadth (m)	2.68
Draught (m)	-
GT (tonnes)	-
Average speed (kn)	45
Age of vessel	9
IMO No.	-

EQUIPMENT

Crane	-
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

-

KP - 271

LOCATION	Koper
OPERATIONS	Not Specified

VESSEL

Class	Response vessel
LOA (m)	13
Breadth (m)	5
Draught (m)	-
GT (tonnes)	-
Average speed (kn)	10
Age of vessel	26
IMO No.	-

EQUIPMENT

Crane	-
Crane capability (tonnes)	-
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- Inflatable curtain boom





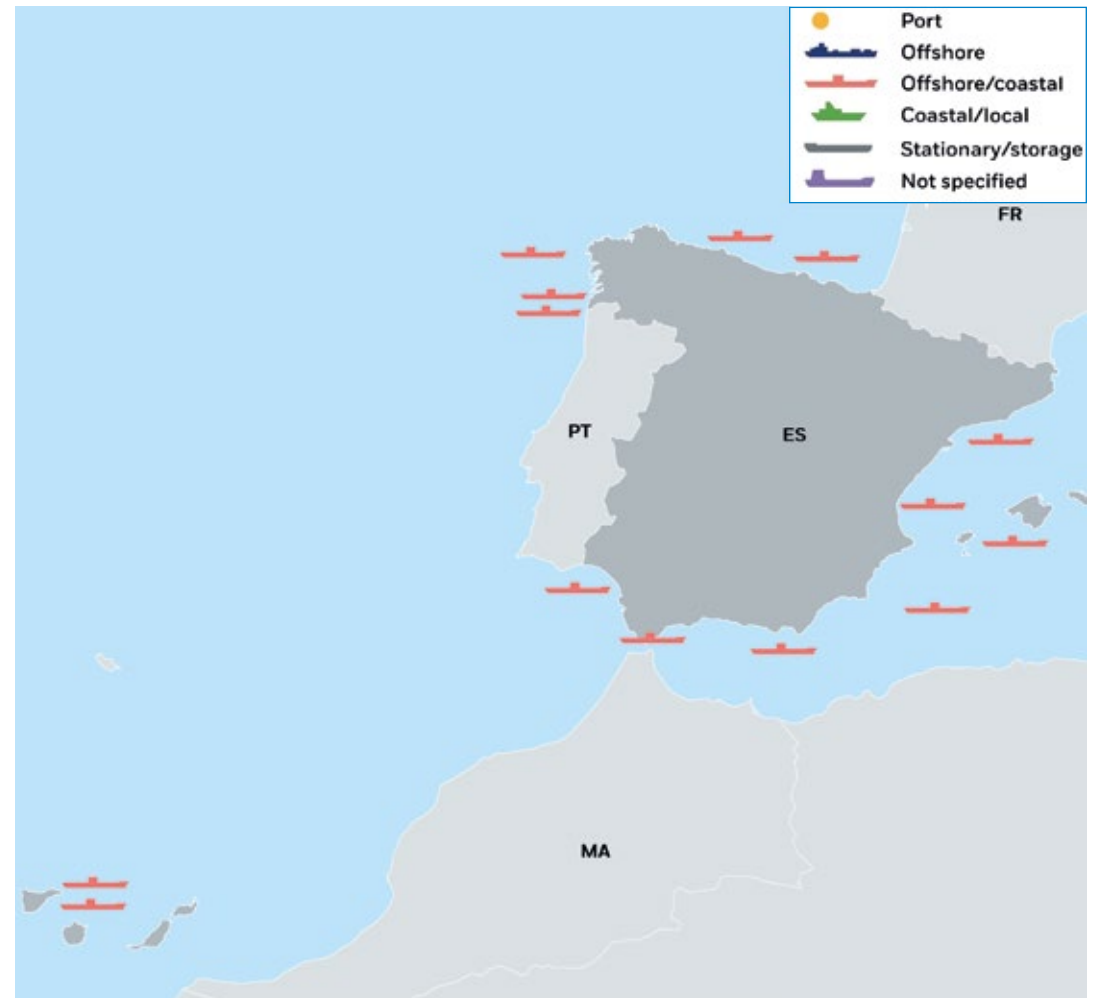
SPAIN

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Maritime Authority in the Directorate General Merchant Marine (DGMM) under the Ministry for Transport and Public Works

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Atlantic/Northwest coast
- Canary Islands
- Mediterranean/East coast
- Mediteranean/South coast
- Northern coast
- Western part of Gibraltar Strait



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

The Spanish Maritime Safety Agency owns 14 oil pollution response vessels especially prepared for towing (ETVs), SAR (Search and Rescue) and oil spill response purposes. They all have self operating cranes to load and unload equipment, and oil booms and skimmers ready to load. Five units are equipped with sweeping arms. The vessels DON INDA, CLARA CAMPOAMOR, LUZ DE MAR, MIGUEL DE CERVANTES, ALONSO DE CHAVES and PUNTA SALINAS have ORO tanks. The rest of the vessels have open decks that make them suitable to deploy booms in recovery operations, but their storage capacity is limited.

The maritime fleet also includes 55 fast response vessels of a smaller size (15 and 21 m length) and 4 patrol boats (32 m length) positioned along the coastline for SAR and pollution activities. They are currently used as auxiliary units to tender booms, help the tugs in response operations and take samples. The geographical distribution of these vessels can vary depending on season and specific needs.

The Spanish Maritime Safety Agency owns three fixed wing aircraft CASA CN-235, especially equipped to detect spills and to monitor and identify polluting vessels. Eleven helicopter bases can support the aerial surveillance if necessary and take samples.

Stockpiles are located in six different strategic bases along the Spanish coastline: Santander, A Coruña, Sevilla, Cartagena, Castellón y Tenerife, with 60 km of oil booms, 46 skimmers, 40 fast tanks of 10 m³ capacity, 18 portable tanks of 7.5 m³ and subacoustic equipment.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

Spanish Authorities do not have any vessels under contract nowadays.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

Spanish Authorities do not have any fleet under contract nowadays.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

- AEGEAN SEA (1992), 67 000 t light crude oil
- PRESTIGE (2002, Galicia), 77 000 t heavy fuel oil
- SPABUNKER IV (2003, Algeciras), 1 075 m³ IFO 180, 92 m³ GO, 98 m³ DO
- DON PEDRO (2007, Islas Baleares), 150 m³ IFO 180, 60 m³ DO, 10m³ LO
- NEW FLAME (2007, Gibraltar Strait), 277 t IFO 380
- FEDRA (2008, Gibraltar Strait), 428 m³ IFO 380, 60 m³ GO, 47 m³ LO
- OLEG NAYDENOV (2015, Canary Islands), 1 400 t IFO 380, 30 t DO, 70 t LO.

4. REGIONAL AND BILATERAL AGREEMENTS

- Barcelona Convention
- Lisbon Agreement
- Spain-Argelia Plan SARMED
- Lion Plan
- Biscay Plan
- Spain has observer status under the Bonn Agreement
- Spain has observer status under RAMOGEPOL

5. DRILLS AND EXERCISES

Spain organizes/participates in the following exercises:

- National pollution exercise
- In the Biscay Gulf with France in the framework of Biscay Plan
- In the Lion Gulf with France in the framework of Lion Plan
- In the Mediterranean Sea with France, Italy and Monaco in the framework of Ramogepol Plan



DON INDA

LOCATION	Atlantic/Northwest coast
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	Multipurpose vessel
LOA (m)	80.6
Breadth (m)	18
Draught (m)	7
GT (tonnes)	3 646
Average speed (kn)	17
Age of vessel	8
IMO No.	9338010

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2 cranes of 20 t each one
Total storage capacity (m ³)	1 750
Heated storage (m ³)	1 750

ANTI-POLLUTION EQUIPMENT

- Sweeping arms with weir skimmer
- Transrec with weir and drum skimmers
- 300 m boom, Oil slick detection system
- Dispersant spray arms & structural tank

CLARA CAMPOAMOR

LOCATION	Mediterranean/East coast
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	Multipurpose vessel
LOA (m)	80.6
Breadth (m)	18
Draught (m)	7
GT (tonnes)	3 646
Average speed (kn)	17
Age of vessel	8
IMO No.	9338022

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2 cranes of 20 t each one
Total storage capacity (m ³)	1 750
Heated storage (m ³)	1 750

ANTI-POLLUTION EQUIPMENT

- Sweeping arms with weir skimmer
- Transrec with weir and drum skimmers
- 300 m boom, Oil slick detection system
- Dispersant spray arms & structural tank

LUZ DE MAR

LOCATION	Western part of Gibraltar Strait
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	Multipurpose vessel
LOA (m)	56
Breadth (m)	15
Draught (m)	5.5
GT (tonnes)	1 780
Average speed (kn)	15.5
Age of vessel	10
IMO No.	9320104

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2 cranes of 20 and 10 t
Total storage capacity (m ³)	287
Heated storage (m ³)	287

ANTI-POLLUTION EQUIPMENT

- Sweeping arms with weir skimmer,
- Noren skimmer system with weir and
- Brush skimmers
- Dispersant spray arms & structural tank

MIGUEL DE CERVANTES

LOCATION	Canary Islands
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	Multipurpose vessel
LOA (m)	56
Breadth (m)	15
Draught (m)	5.5
GT (tonnes)	1780
Average speed (kn)	15.5
Age of vessel	10
IMO No.	9320116

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2 cranes of 20 and 10 tons
Total storage capacity (m ³)	287
Heated storage (m ³)	287

ANTI-POLLUTION EQUIPMENT

- Sweeping arms with weir skimmer
- Noren skimmer system with weir and brush skimmers
- Dispersant spray arms & structural tank

ALONSO DE CHAVES

LOCATION	Northern coast
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	Multipurpose vessel
LOA (m)	58.08
Breadth (m)	13.3
Draught (m)	5.51
GT (tonnes)	1549
Average speed (kn)	15
Age of vessel	29
IMO No.	8411164

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10
Total storage capacity (m ³)	25 (FAST TANK)
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Disk skimmer
- Two arms Kamper of 12 m with Marflex MSP-150 pumps

PUNTA MAYOR

LOCATION	Mediterranean/East Coast
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	Multipurpose vessel
LOA (m)	60
Breadth (m)	12.8
Draught (m)	4.61
GT (tonnes)	1047
Average speed (kn)	13
Age of vessel	31
IMO No.	8305066

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10
Total storage capacity (m ³)	198
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Sweeping arms
- Side boom and weir skimmer, 200 meters boom



PUNTA SALINAS

LOCATION	Canary Islands
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	Multipurpose vessel
LOA (m)	57.5
Breadth (m)	13
Draught (m)	5.45
GT (tonnes)	1178
Average speed (kn)	15.5
Age of vessel	33
IMO No.	7931894

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10
Total storage capacity (m ³)	145
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Side boom and weir skimmer

MARÍA DE MAEZTU

LOCATION	Northern coast
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	ETV-Pollution Response
LOA (m)	39.7
Breadth (m)	12.5
Draught (m)	4.85
GT (tonnes)	907
Average speed (kn)	13
Age of vessel	8
IMO No.	9429091

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10.15
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- She has not any anti Pollution Equipment on board, but can storage a fast tank on deck and a skimmer pump
- Dispersant spray arms & structural tank

MARÍA ZAMBRANO

LOCATION	Western Part of Gibraltar Strait
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	ETV-Pollution Response
LOA (m)	39.7
Breadth (m)	12.5
Draught (m)	4.85
GT (tonnes)	907
Average speed (kn)	13
Age of vessel	7
IMO No.	9429106

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10.15
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- She has not any anti Pollution Equipment on board, but can storage a fast tank on deck and a skimmer pump
- Dispersant spray arms & structural tank

MARÍA PITA

LOCATION	Atlantic northwest coast
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	ETV-Pollution Response
LOA (m)	39.7
Breadth (m)	12.5
Draught (m)	4.85
GT (tonnes)	907
Average speed (kn)	13
Age of vessel	8
IMO No.	9429118

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10.15
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- She has not any anti Pollution Equipment on board, but can storage a fast tank on deck and a skimmer pump
- Dispersant spray arms & structural tank

MARTA MATA

LOCATION	Atlantic northwest coast
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	ETV-Pollution Response
LOA (m)	39.7
Breadth (m)	12.5
Draught (m)	4.85
GT (tonnes)	907
Average speed (kn)	13
Age of vessel	8
IMO No.	9429120

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10.15
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- She has not any anti Pollution Equipment on board, but can storage a fast tank on deck and a skimmer pump
- Dispersant spray arms & structural tank

SAR GAVIA

LOCATION	Atlantic northwest coast
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	ETV-Pollution Response
LOA (m)	39.7
Breadth (m)	12.5
Draught (m)	4.85
GT (tonnes)	912
Average speed (kn)	13
Age of vessel	6
IMO No.	9525742

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10.15
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- She has not any anti Pollution Equipment on board, but can storage a fast tank on deck and a skimmer pump
- Dispersant spray arms & structural tank



SAR MASTELERO

LOCATION	Atlantic northwest coast
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	ETV-Pollution Response
LOA (m)	39.7
Breadth (m)	12.5
Draught (m)	4.85
GT (tonnes)	912
Average speed (kn)	13
Age of vessel	5
IMO No.	9525730

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10.15
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- She has not any anti Pollution Equipment on board, but can storage a fast tank on deck and a skimmer pump
- Dispersant spray arms & structural tank

SAR MESANA

LOCATION	Atlantic northwest coast
OPERATIONS	Offshore/Coastal/Local

VESSEL

Class	ETV-Pollution Response
LOA (m)	39.7
Breadth (m)	12.5
Draught (m)	4.85
GT (tonnes)	912
Average speed (kn)	13
Age of vessel	6
IMO No.	9525754

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	10.15
Total storage capacity (m ³)	-
Heated storage (m ³)	-

ANTI-POLLUTION EQUIPMENT

- She has not any anti Pollution Equipment on board, but can storage a fast tank on deck and a skimmer pump
- Dispersant spray arms & structural tank



Clara Campoamor



Luz de Mar





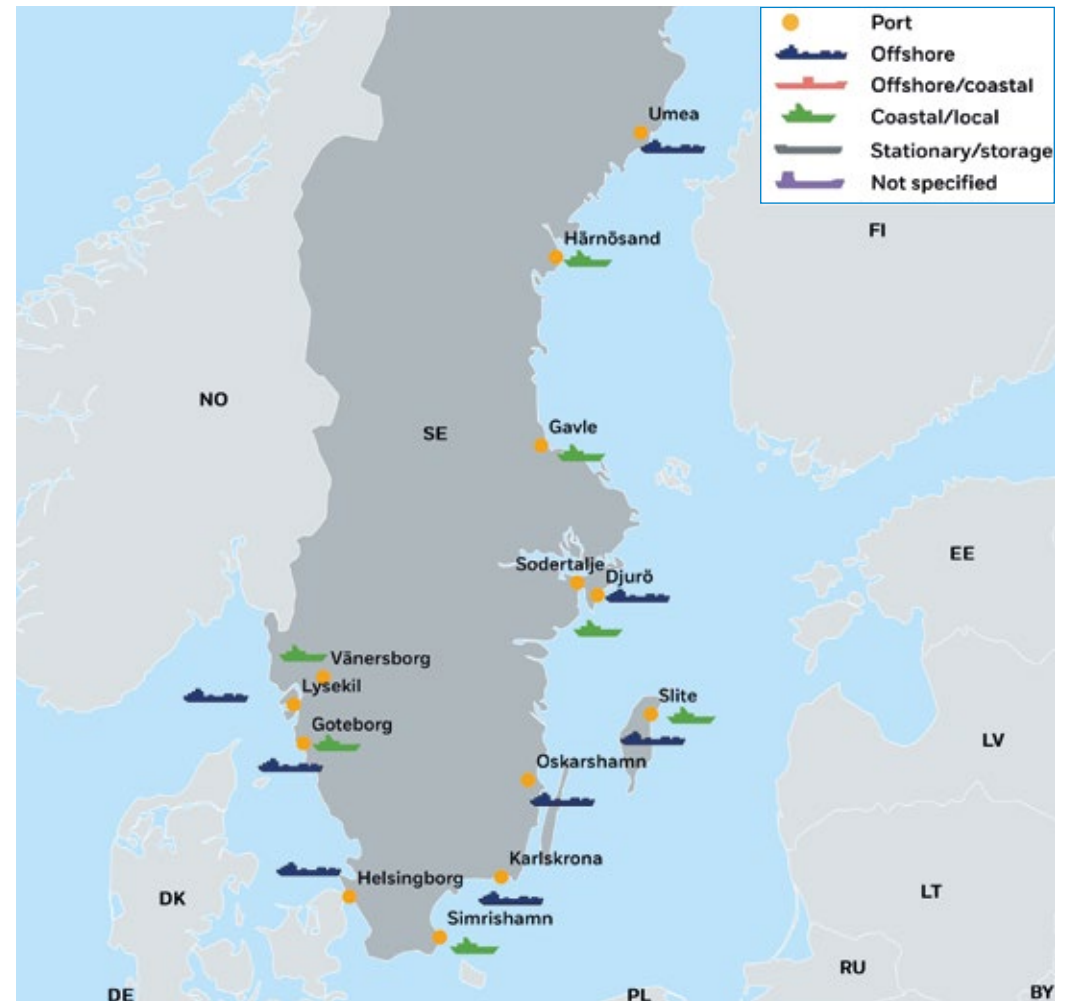
SWEDEN

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Swedish Coast Guard

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Djurö
- Gavle
- Gothenburg
- Härnösand
- Helsingborg
- Karlskrona
- Lysekil
- Oskarshamn
- Simrishamn
- Slite
- Sodertalje
- Umea
- Vänersborg



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

Technical details of Swedish offshore response vessels: stockpiles are located at Harnosand, Djuro, Slite, Karlskrona and Goteborg.

From 2015 stockpile MSB are located in Harosand, Djuro, Oskarshamn, Slite and Goteborg.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

-

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

There are no known privately-owned resources for at-sea response in Sweden. Unlike its neighbours, Norway and Denmark, Sweden does not have any offshore oil production in the North Sea. For this reason, it does not have the availability of private sector spill response capability from the oil industry.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

- TSEIS (1977), 1 000 t
- ANTONIO GRAMSCI (1979), 5 000 – 6 000 t
- VOLGONEFT 263 (1990) 1 000 t
- KYRKESUND (2013) , 600 t HFO

4. REGIONAL AND BILATERAL AGREEMENTS

- Bonn Agreement
- Helsinki Convention
- Copenhagen Agreement
- SweDenGer Agreement

5. DRILLS AND EXERCISES

Drills are performed for all crews and vessels in local/regional exercises annually. Swedish vessels also participate in the exercises that are conducted within the regional agreements we are part of, Copenhagen agreement, HELCOM and Bonn Agreement.



KBV 001S



KBV 010

**KBV 201**

LOCATION	Härnösand
OPERATIONS	Coastal

VESSEL

Class	Patrol/Navy Vessel
LOA (m)	52
Breadth (m)	8.6
Draught (m)	2.8
GT (tonnes)	476
Average speed (kn)	21
Age of vessel	14
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0,7/16,8 Range
Total storage capacity (m ³)	213 (104 + 110 m ³ oil bags)
Heated storage (m ³)	103

ANTI-POLLUTION EQUIPMENT

- Sweeping arms
- LAMOR brush skimmers
- Two free- floating skimmers
- 300 m boom
- Response divers

KBV 202

LOCATION	Gavle
OPERATIONS	Coastal

VESSEL

Class	Patrol/Navy Vessel
LOA (m)	52
Breadth (m)	8.6
Draught (m)	2.8
GT (tonnes)	476
Average speed (kn)	21
Age of vessel	14
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	0,7/16,8 Range
Total storage capacity (m ³)	213 (104 + 110 m ³ oil bags)
Heated storage (m ³)	104

ANTI-POLLUTION EQUIPMENT

- Sweeping arms
- LAMOR brush skimmers
- Two free-floating skimmers
- 300 m boom
- Response divers

KBV050

LOCATION	Sodertalje
OPERATIONS	Coastal

VESSEL

Class	Anti-Pollution vessel
LOA (m)	38
Breadth (m)	8.5
Draught (m)	2.4
GT (tonnes)	375
Average speed (kn)	11
Age of vessel	32
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2/8,4 Range
Total storage capacity (m ³)	300 (190 + 110 m ³ oil bags)
Heated storage (m ³)	190

ANTI-POLLUTION EQUIPMENT

- Sweeping arms
- LAMOR brush skimmer
- Two free-floating skimmers
- 300 m boom

KBV033

LOCATION	Oskarshamn
OPERATIONS	Offshore

VESSEL

Class	Anti-Pollution vessel
LOA (m)	49.9
Breadth (m)	10.5
Draught (m)	4
GT (tonnes)	801
Average speed (kn)	12.0
Age of vessel	5
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.9/19,3 2,75/10
Total storage capacity (m ³)	355 (255+ 100m ³ oilbag)
Heated storage (m ³)	255

ANTI-POLLUTION EQUIPMENT

- Sweeping arms
- LAMOR brush skimmers
- Two free-floating skimmers
- 300 m boom
- Response divers

KBV051

LOCATION	Vänernborg
OPERATIONS	Coastal

VESSEL

Class	Anti-Pollution vessel
LOA (m)	38
Breadth (m)	8.5
Draught (m)	2.4
GT (tonnes)	375
Average speed (kn)	11.0
Age of vessel	32
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2/8,4 Range
Total storage capacity (m ³)	300 (190 + 110 m ³ oil bags)
Heated storage (m ³)	190

ANTI-POLLUTION EQUIPMENT

- Sweeping arms
- LAMOR brush skimmer
- Two free-floating skimmers
- 300 m boom

KBV032

LOCATION	Lysekil
OPERATIONS	Offshore

VESSEL

Class	Anti-Pollution vessel
LOA (m)	49.9
Breadth (m)	10.5
Draught (m)	4
GT (tonnes)	801
Average speed (kn)	12.0
Age of vessel	5
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.9/19,3 2,75/10
Total storage capacity (m ³)	355 (255+ 100m ³ oilbag)
Heated storage (m ³)	255

ANTI-POLLUTION EQUIPMENT

- Sweeping arms
- LAMOR brush skimmers,
- Two free-floating skimmers
- 300 m boom
- Response divers

**KBV010**

LOCATION	Goteborg
OPERATIONS	Coastal

VESSEL

Class	Anti-Pollution vessel
LOA (m)	46.1
Breadth (m)	8.6
Draught (m)	3.7
GT (tonnes)	430
Average speed (kn)	12
Age of vessel	30
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	75 t /m , 20 t/m
Total storage capacity (m ³)	312 (220+ 100 m ³ oil bags)
Heated storage (m ³)	212

ANTI-POLLUTION EQUIPMENT

- Sweeping arm
- LAMOR brush skimmer
- Two free-floating skimmers
- 300 m boom

KBV181

LOCATION	Umea
OPERATIONS	Offshore

VESSEL

Class	Patrol/Navy Vessel
LOA (m)	56
Breadth (m)	10.2
Draught (m)	5.3
GT (tonnes)	991
Average speed (kn)	15
Age of vessel	30
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	3.1/13.2 Range
Total storage capacity (m ³)	50 oil bags
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- One side brush skimmer advancing system with sweeping arm
- Two free-floating skimmer
- 300 m boom

KBV034

LOCATION	Helsingborg
OPERATIONS	Offshore

VESSEL

Class	Anti-Pollution vessel
LOA (m)	49.9
Breadth (m)	10.5
Draught (m)	4
GT (tonnes)	801
Average speed (kn)	12
Age of vessel	4
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.9/19,3 2,75/10
Total storage capacity (m ³)	355 (255+ 100m ³ oilbag)
Heated storage (m ³)	255

ANTI-POLLUTION EQUIPMENT

- Sweeping arms
- LAMOR brush skimmers
- Two free-floating skimmers
- 300m boom
- Response divers

KBV048

LOCATION	Simrishamn
OPERATIONS	Coastal

VESSEL

Class	Anti-Pollution vessel
LOA (m)	36.4
Breadth (m)	7.3
Draught (m)	3.7
GT (tonnes)	340
Average speed (kn)	10
Age of vessel	33
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2/8,4 Range
Total storage capacity (m ³)	260 (150 + 110 m ³ oil bags)
Heated storage (m ³)	150

ANTI-POLLUTION EQUIPMENT

- Sweeping arms
- LAMOR brush skimmer
- Two free-floating skimmer
- 300 m boom

KBV 001 POSEIDON

LOCATION	Gothenburg
OPERATIONS	Offshore

VESSEL

Class	Anti-Pollution vessel
LOA (m)	81.2
Breadth (m)	16.2
Draught (m)	6.5
GT (tonnes)	3 760
Average speed (kn)	16
Age of vessel	7
IMO No.	-

EQUIPMENT

Crane	Yes (3)
Crane capability (tonnes)	24/7 Remote, 8/21 Remote, 1/17 Remote
Total storage capacity (m ³)	1 050
Heated storage (m ³)	1 050

ANTI-POLLUTION EQUIPMENT

- Towing capacity 100 tonnes/1000m
- Advance fire fighting 2x1200 m³/h water, 1x300 m³/h foam
- Recovery system 400m³/h 10000 cSt, 100m³/h 1000000 cSt
- Sweeparms 32 m
- Skimmer 100m³/h
- Bucketskimmer 3m, Multihose 90m, Cargo capacity 4x20' container. Response divers

KBV 002 TRITON

LOCATION	Slite
OPERATIONS	Offshore

VESSEL

Class	Anti-Pollution vessel
LOA (m)	81.2
Breadth (m)	16.2
Draught (m)	6.5
GT (tonnes)	3 760
Average speed (kn)	16
Age of vessel	7
IMO No.	-

EQUIPMENT

Crane	Yes (3)
Crane capability (tonnes)	24/7 Remote, 8/21 Remote, 1/17 Remote
Total storage capacity (m ³)	1 050
Heated storage (m ³)	1 050

ANTI-POLLUTION EQUIPMENT

- Towing capacity 100 tonnes/1000m
- Advance fire fighting 2x1200 m³/h water, 1x300 m³/h foam
- Recovery system 400m³/h 10000 cSt, 100m³/h 1000000 cSt
- Sweeparms 32 m
- Skimmer 100m³/h
- Bucketskimmer 3m, Multihose 90m, Cargo capacity 4x20' container. Response divers

**KBV 003 AMFITRITE**

LOCATION	Karlskrona
OPERATIONS	Offshore

VESSEL

Class	Anti-Pollution vessel
LOA (m)	81.3
Breadth (m)	16.3
Draught (m)	6.5
GT (tonnes)	3760
Average speed (kn)	16
Age of vessel	6
IMO No.	-

EQUIPMENT

Crane	X (3)
Crane capability (tonnes)	24/7 Remote, 8/21 Remote, 1/17 Remote
Total storage capacity (m ³)	1100
Heated storage (m ³)	1100

ANTI-POLLUTION EQUIPMENT

- Towing capacity 100 tonnes/1000m
- Advance fire fighting 2x1200 m³/h water, 1x300 m³/h foam
- Recovery system 400m³/h 10000 cSt, 100m³/h 1000000 cSt
- Sweeparms 32 m
- Skimmer 100m³/h, Bucketskimmer 3m, Multihose 90m, Cargo capacity 4x20' container. Recovery tanks in SS 160 m³
- Recovery capacity in hot area. Response divers

KBV031

LOCATION	Djurö
OPERATIONS	Offshore

VESSEL

Class	Anti-Pollution vessel
LOA (m)	49.9
Breadth (m)	10.5
Draught (m)	4
GT (tonnes)	801
Average speed (kn)	12
Age of vessel	5
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	1.9/19,3 2,75/10
Total storage capacity (m ³)	355 (255+ 100m ³ oilbag)
Heated storage (m ³)	255

ANTI-POLLUTION EQUIPMENT

- Sweeping arms
- LAMOR brush skimmers
- Two free- floating skimmers
- 300 m boom
- Response divers

KBV047

LOCATION	Slite
OPERATIONS	Coastal

VESSEL

Class	Anti-Pollution vessel
LOA (m)	36.4
Breadth (m)	7.3
Draught (m)	3.7
GT (tonnes)	340
Average speed (kn)	10
Age of vessel	33
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	2/8,4 Range
Total storage capacity (m ³)	260 (150 + 110 m ³ oil bags)
Heated storage (m ³)	150

ANTI-POLLUTION EQUIPMENT

- Sweeping arms
- LAMOR brush skimmer
- Two free-floating skimmer
- 300 m boom





THE NETHERLANDS

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Netherlands Coast Guard Centre assisted by
RWS Noordzee

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

- Scheveningen
- Vlissingen
- Terschelling
- Rotterdam
- Den Helder
- Rotterdam
- Breskens
- Dordrecht



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

All skimmers on board the vessels are of the sweeping arm type (inner pontoon carrying the pump; bridge part; outer pontoon) 12 to 15 meters length.

- FRANS NAEREBOUT, TERSCHELLING and ROTTERDAM are recovery-assisting vessels that normally handle booms or current buster. All vessels can be fitted with sweeping arm and one or two tank containers.
- EVOLI BLACK primarily is an emergency towing vessel. It also can be fitted with sweeping arm.

The Netherlands relies heavily on recovery vessels to combat oil spills at sea and has a relatively large fleet at its disposal. Five vessels are owned by the government and form what is referred to as the first line of defence. They were designed specifically for oil spill response but can also be used for other purposes (e.g. survey ships and buoy tendering). The ARCA is a tanker class oil recovery vessel that means she is allowed to recover oil with a flash point below 61°C. Vessels forming the second line of defence are mainly hopper dredger vessels that have been slightly modified to accommodate oil recovery equipment. They can be mobilised directly when permanently equipped and the others are ready within six hours; this is mainly because they have to return to port to load the required oil recovery equipment.

The Netherlands maintains a significant fleet with large recovered oil storage capacity, many of which have sweeping arm oil recovery systems.

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

No information provided.

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

All TSHDs and the IEVOLI BLACK (ETV) are privately owned and contracted on a 3-5 year basis by RWS Noordzee.

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

There have been no major oil spills.

4. REGIONAL AND BILATERAL AGREEMENTS

- Bonn Agreement
- DenGerNeth Tripartite Agreement
- Quadrapartite Plan
- Member of the European Community Task Force

5. DRILLS AND EXERCISES

All contracted vessels are trained and exercised twice per annum.



ARCA

LOCATION	Scheveningen
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	83
Breadth (m)	12.8
Draught (m)	5.5
GT (tonnes)	Not specified
Average speed (kn)	14.0
Age of vessel	18
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	7 and 6 tonnes SWL
Total storage capacity (m ³)	1018
Heated storage (m ³)	Yes

ANTI-POLLUTION EQUIPMENT

- 2 skimmers
- 2x100 m boom Ro-Boom 2000
- Current Buster
- SeadarQ oil detection and monitoring

FRANS NEARBOUT

LOCATION	Vlissingen
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	44.4
Breadth (m)	10.25
Draught (m)	3.1
GT (tonnes)	Not specified
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	20
Total storage capacity (m ³)	30
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Can be equipped with 1 sweeping arm, power pack and tank container
- Can be used for current buster or boom handling

TERSCHELLING

LOCATION	Terschelling
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	44.4
Breadth (m)	10.25
Draught (m)	3.1
GT (tonnes)	Not specified
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	20
Total storage capacity (m ³)	30
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Can be equipped with 1 sweeping arm, power pack and tank container
- Can be used for current buster or boom handling

ROTTERDAM

LOCATION	Rotterdam
OPERATIONS	Not specified

VESSEL

Class	Oil recovery vessel
LOA (m)	44.4
Breadth (m)	10.25
Draught (m)	3.1
GT (tonnes)	Not specified
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	20
Total storage capacity (m ³)	30
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Can be equipped with 1 sweeping arm, power pack and tank container
- Can be used for current buster or boom handling

HEIN

LOCATION	Rotterdam
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	113.01
Breadth (m)	18.47
Draught (m)	8
GT (tonnes)	Not specified
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	3656
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 1 sweeping arm (p).
- 2nd sweeping arm can be mounted

RIJNDELTA

LOCATION	Rotterdam
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	112.9
Breadth (m)	18.1
Draught (m)	7.2
GT (tonnes)	Not specified
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	3599
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 2 sweeping arms (p)

**ETV**

LOCATION	Den Helder
OPERATIONS	Offshore

VESSEL

Class	Emergency towing vessel ETV Pollution Response
LOA (m)	70
Breadth (m)	15.5
Draught (m)	5.1
GT (tonnes)	2018
Average speed (kn)	15.0
Age of vessel	7
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	3
Total storage capacity (m ³)	600
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Can be equipped with 1 sweeping arm, power pack and tank container
- Can be used for current buster or boom handling

CRESTWAY

LOCATION	Rotterdam
OPERATIONS	Not Specified

VESSEL

Class	Oil recovery vessel
LOA (m)	97,7
Breadth (m)	23
Draught (m)	6.6
GT (tonnes)	Not specified
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	5600
Total storage capacity (m ³)	-
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Can be equipped with 1 sweeping arm

RIO

LOCATION	Breskens
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	Not specified
Breadth (m)	Not specified
Draught (m)	Not specified
GT (tonnes)	Not specified
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Yes
Crane capability (tonnes)	-
Total storage capacity (m ³)	2430
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 1 sweeping arm (p)

INTER-BALLAST-1

LOCATION	Breskens
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
	Not specified
Breadth (m)	Not specified
Draught (m)	Not specified
GT (tonnes)	Not specified
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	2500
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- 1 sweeping arm (p)

WATERWAY

LOCATION	Rotterdam
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	97.7
Breadth (m)	23
Draught (m)	6.6
GT (tonnes)	Not specified
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	4906
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Can be equipped with 1 sweeping arm

SHOREWAY

LOCATION	Rotterdam
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	112.8
Breadth (m)	19.6
Draught (m)	7.5
GT (tonnes)	Not specified
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	5600
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Can be equipped with 1 sweeping arm

**COASTWAY**

LOCATION	Rotterdam
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	97.7
Breadth (m)	23
Draught (m)	6.6
GT (tonnes)	Not specified
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	4906
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Can be equipped with 1 sweeping arm

ELBE

LOCATION	Dordrecht
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	79.8
Breadth (m)	15.2
Draught (m)	Not specified
GT (tonnes)	2358
Average speed (kn)	13
Age of vessel	2010
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	2500
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Can be equipped with 1 sweeping arm

AMAZONE

LOCATION	Dordrecht
OPERATIONS	Offshore

VESSEL

Class	Oil recovery vessel
LOA (m)	Not specified
Breadth (m)	Not specified
Draught (m)	Not specified
GT (tonnes)	Not specified
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	2680
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Can be equipped with 1 sweeping arm

ADELAAR

LOCATION	Dordrecht
OPERATIONS	Not specified

VESSEL

Class	Oil recovery vessel
LOA (m)	Not specified
Breadth (m)	Not specified
Draught (m)	Not specified
GT (tonnes)	Not specified
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	600
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Can be equipped with 1 sweeping arm

CAUSWAY

LOCATION	Rotterdam
OPERATIONS	Not specified

VESSEL

Class	Oil recovery vessel
LOA (m)	Not specified
Breadth (m)	Not specified
Draught (m)	Not specified
GT (tonnes)	Not specified
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	4906
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Can be equipped with 1 sweeping arm

SHOALWAY

LOCATION	Rotterdam
OPERATIONS	Not specified

VESSEL

Class	Oil recovery vessel
LOA (m)	Not specified
Breadth (m)	Not specified
Draught (m)	Not specified
GT (tonnes)	Not specified
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	4500
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Can be equipped with 1 sweeping arm



STRANDWAY

LOCATION	Rotterdam
OPERATIONS	Not specified

VESSEL

Class	Oil recovery vessel
LOA (m)	Not specified
Breadth (m)	Not specified
Draught (m)	Not specified
GT (tonnes)	Not specified
Average speed (kn)	Not specified
Age of vessel	Not specified
IMO No.	-

EQUIPMENT

Crane	Not specified
Crane capability (tonnes)	Not specified
Total storage capacity (m ³)	4500
Heated storage (m ³)	No

ANTI-POLLUTION EQUIPMENT

- Can be equipped with 1 sweeping arm





UNITED KINGDOM

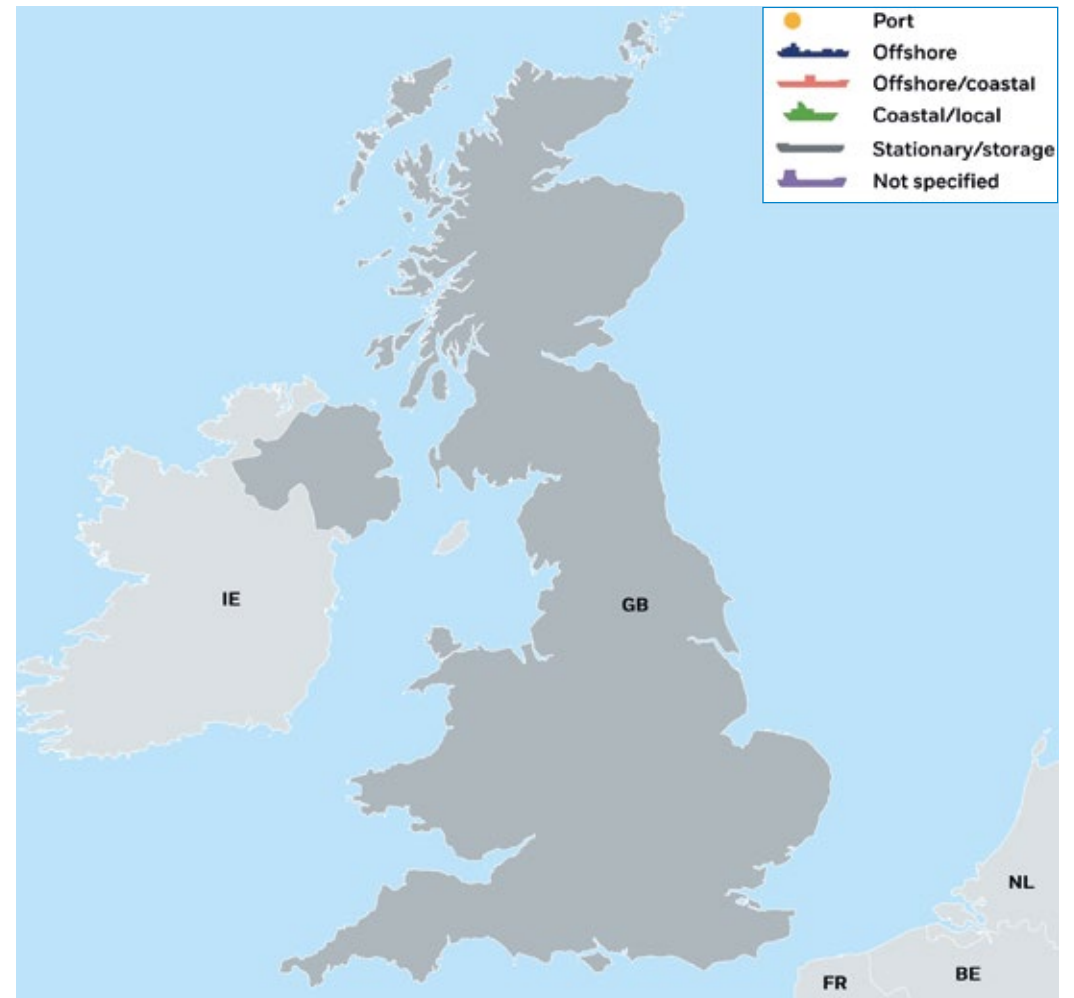
OIL SPILL RECOVERY VESSELS INVENTORY 2016

COMPETENT NATIONAL AUTHORITY WITH OVERALL RESPONSIBILITY FOR OIL POLLUTION RESPONSE

The Maritime and Coastguard Agency is the lead organisation for marine pollution from shipping, and the Department for Energy and Climate Change are the lead for pollution from oil and gas exploration.

LOCATION OF OIL POLLUTION RESPONSE VESSELS 2016

■ N/A



1. GOVERNMENT OWNED RESOURCES

1.1. Government Specialised Anti-Pollution Vessels

The United Kingdom (UK) has a highly developed OPRC arrangement, the key factor being co-operation with industry. This includes a requirement for all medium to major UK ports and harbours to maintain comprehensive Marine Pollution Preparedness and Response Contingency Plans that are approved and continuously reviewed by the UK's Maritime and Coastguard Agency (MCA).

1.2. Government Non-Specialised Vessels and Equipment for Anti-Pollution Response

A 16,000 tonne oil slick can be treated in 48 hours, drawing on dispersants held in eleven government stockpiles strategically located around the UK. Scientific and monitoring support, along with rapid liaison with other Government departments, forms part of the UK's response. This allows rapid determination on whether chemical dispersion is appropriate for a given scenario and also allows on-going efficacy assessments during operations. To provide an enhanced towing and salvage capability the MCA has put in place the Coastguard Agreement for Salvage and Towing (CAST). CAST is a standing agreement with the operators of tugs and other vessels capable of assisting MCA with towage, salvage or other work related to the saving of life, property or environmental protection. It enables the

rapid deployment of suitable vessels under MCA control with pre-agreed terms and conditions of service.

- A robust working relationship with towing and salvage brokers also gives rapid access to resources that may be available on the commercial market.
- Current satellite surveillance includes a shared programme with the German, Belgian and Netherlands authorities covering the Southern North Sea and Dover Straits. Any future satellite surveillance programme will also be targeted on a defined area.
- A robust and decisive command and control system encompassing the Secretary of State's Representative for Maritime Salvage and Intervention (SOSREP) function

The MCA maintains a stockpile of counter pollution and salvage equipment on behalf of the UK Government. Oil recovery equipment includes;

- Ro-skim 1500 single-ship recovery system
- Three scan trawls systems
- Three heavy oil skimmers
- Weir skimmer
- Oleophilic disc skimmers

In addition to at sea oil recovery equipment, the stockpile also includes booming and temporary storage, ship-to-ship transfer packages, inert gas generation and hazardous & noxious substance response equipment.

In addition to the contingency planning arrangements for ports and harbours, similar requirements are placed on UK continental shelf operators. All offshore installations have aerial surveillance and/or dispersant spraying resources. These installations are also required by Government to have Tier 3 contractual arrangements with Briggs Marine Environmental Services and/or Oil Spill Response Limited.

Oil recovery capability is a requirement for several offshore operators. Through OPRC and government/industry understandings vessels with this capability can be made available. Through the highly developed regional OPRC arrangements under the Bonn Agreement, substantial resources, including oil recovery ships, can be made available for use in the UK pollution control zone.

Additionally, through the civil protection arrangements of the European Community further resources can be made available from maritime Member States

2. PRIVATE RESOURCES (UNDER CONTRACT OR AGREEMENT)

N/A

3. PREVIOUS EXPERIENCE WITH OIL POLLUTION RESPONSE

- SIVAND (1983), 6,000 t light crude oil
- BRAER (1993), 85,000 t of crude oil
- SEA EMPRESS (1996), 72,000 t of crude oil



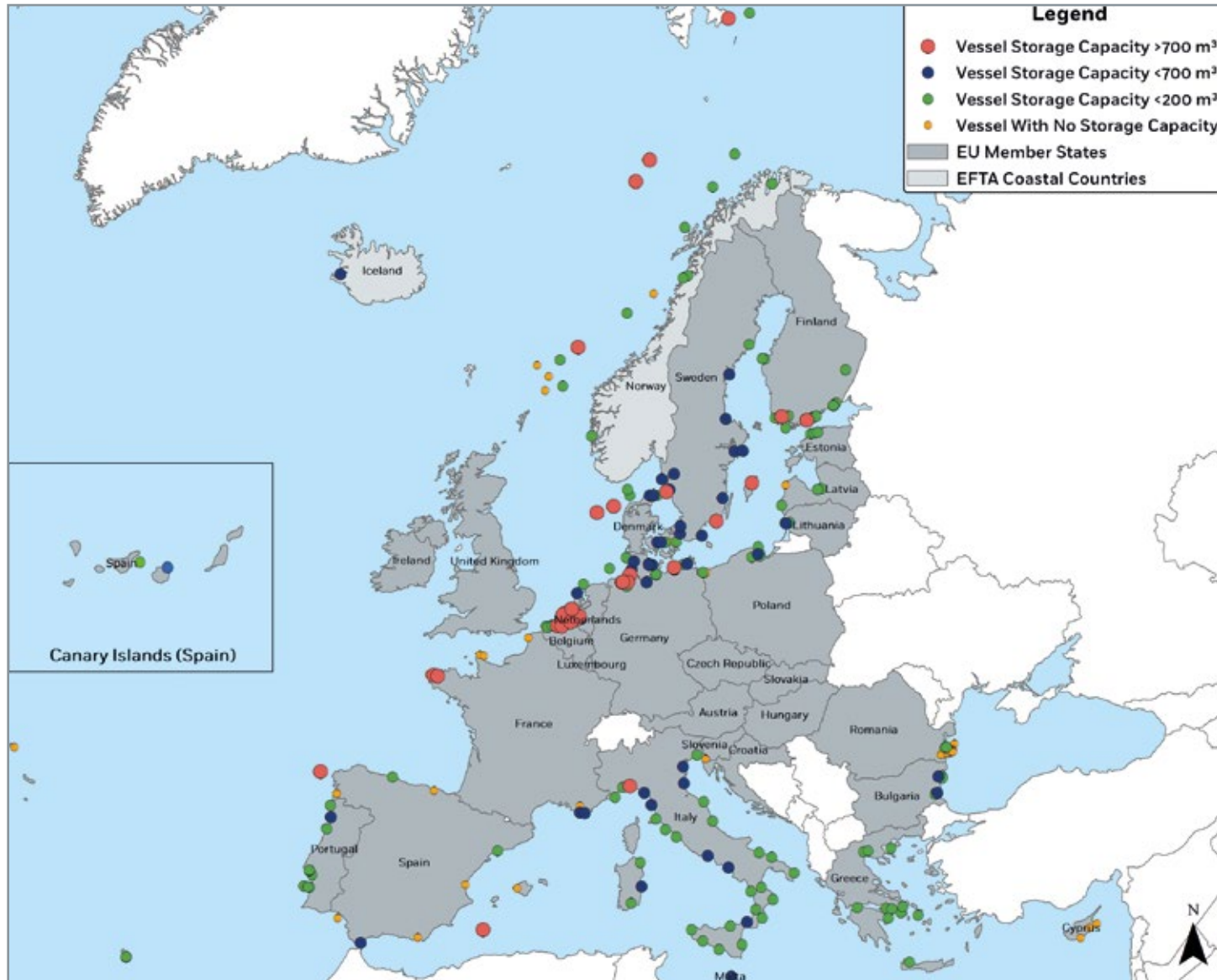
4. REGIONAL AND BILATERAL AGREEMENTS

- Bonn Agreement (with countries bordering the North Sea)
- Manche Plan (a bilateral agreement with France)
- Norbrit Plan (a bilateral contingency plan with Norway)
- Arrangements exist to aid the Channel Islands & Isle of Man if requested through the Manche Plan
- Member of the European Community Task Force
- A bilateral agreement exists with the United Kingdom and Ireland.
- Quadrapartite Plan (with France, UK, Netherlands and Belgium)

5. DRILLS AND EXERCISES

N/A

MEMBER STATE VESSELS AND STORAGE CAPACITY FOR OIL RECOVERY



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The European Maritime Safety Agency is one of the European Union's decentralised agencies. Based in Lisbon, the Agency's mission is to ensure a high level of maritime safety, maritime security, prevention of and response to pollution from ships, as well as response to marine pollution from oil and gas installations. The overall purpose is to promote a safe, clean and economically viable maritime sector in the EU.



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