

Remote sensing, Marpol regulations & Initiating legal proceedings



Bonn Agreement
Bonn Agreement
Accord de
Bonn



Introduction

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Maritime Police**

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Netherlands Coast Guard



Located in Den Helder – the Netherlands

Participating Ministries

- **Infrastructure and Environment**
- **Defence**
- **Safety and Justice (Police)**
- **Finance**
- **Economic Affairs**

Area of responsibility – Coast Guard

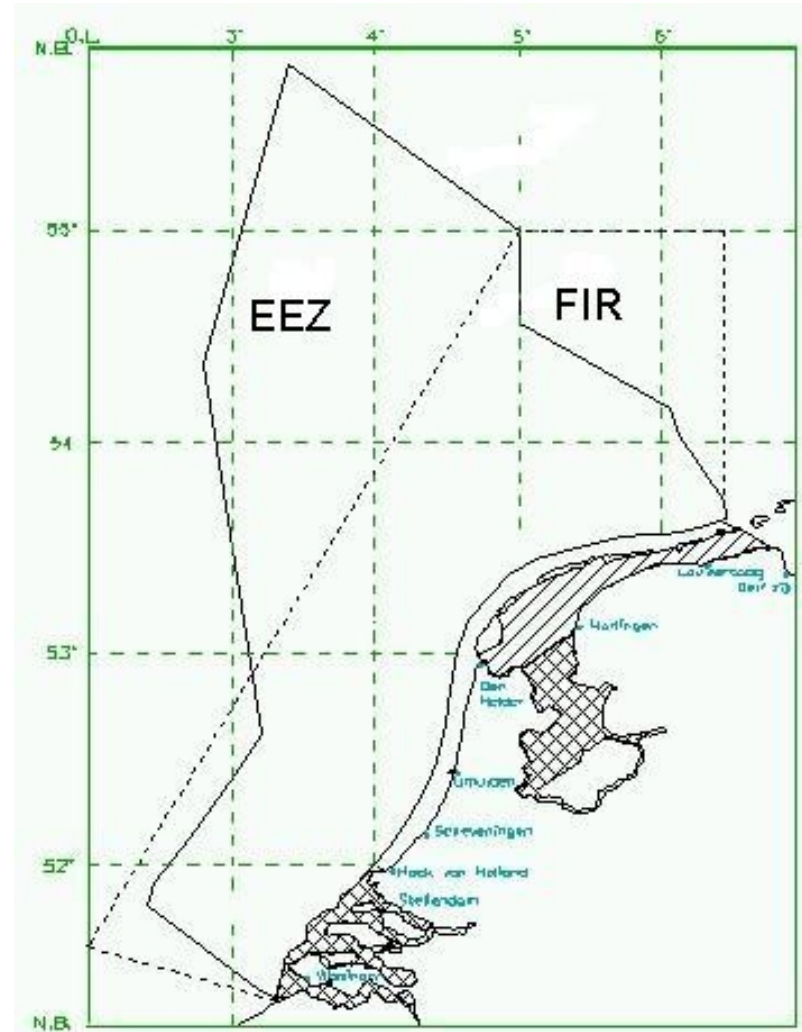
MRCC:

**Territorial Sea and
Adjacent Exclusive
Economic Zone (EEZ)**

**For Search and Rescue
also Major Inland
Waters**

ARCC:

**FIR Amsterdam
including Dutch
Territory**



Coast Guard tasks

SERVICE TASKS:

- **Distress, Emergency and Safety Traffic**
- **Maritime Assistance and Search & Rescue**
- **Disaster and Incident Prevention / Handling**
- **Aids to Navigation**
- **Vessel Traffic Services**
- **Maritime traffic Research**

LAW ENFORCEMENT TASKS:

- **Police Task**
- **Customs Task**

UPHOLDING OF:

- **Environmental Laws**
- **Sea Fishing Laws**
- **Nautical Traffic Laws**
- **Ship Equipment Laws**
- **Offshore Laws**
- **Border Control**

Area of responsibility (Maritime) Police



Maritime Pollution Enforcement

Is carried out

Under responsibility of the Public Prosecutor

by

Maritime Police – ships

Port State Control – ships

Mining Inspectors – offshore installations

Legal Framework

- **Marpol Convention**
- **National Act to prevent illegal discharges from ships into the sea**

- **Ospar Convention / 1972 London Dumping Convention**
- **National Water Act**

National Water Act

- **In case when Marpol is not appropriate**
- **Enforcement will be carried out in respect of National Water act**
- **Substances discharged should be:**
 - Harmful to the environment**
 - Pollutant to the environment; or**
 - Classified as waste**
- **For discharge into the sea a permit is required by the Ministry of Infrastructure & Environment**

What do we investigate

- **Every spill from Vessels at Sea**
- **Within the Netherlands Territorial Waters and Exclusive Economic Zone; or**
- **On legal request done by other parties**
- **Covering: Marpol Annex I – mineral oil**
 - Marpol Annex II – bulk liquids**
 - Marpol Annex V – Garbage and Dry Cargo Residues**
- **Discharges without permit (Water Act)**
- **Investigation by Maritime Police (leading)**
- **Assistance by Port State Control inspectors**

Marpol Annex I investigation

- **Reactive – as a result of an oil pollution**

- **Pro active – as a result of a certain amount of annually detected oil spills in the Netherlands area of the North Sea Investigation of:**
 - **Certificates (IOPP)**
 - **Oil record book**
 - **Engine Room (discharge equipment / tanks)**

Other investigations

- **Reactive – as a result of a pollution**

Marpol Annex II – chemicals, vegetable oils, paraffines and waxes (Bulk liquids)

Marpol Annex V – garbage and cargo residues

National Water Act – pollutions not covered by Marpol

Criminal Investigations

- **Starting a criminal investigation as soon as possible**
- **Collecting information from different sources**

Use of:

- **Pollution Observation Report on Polluters and Combatable Spills Bonn Agreement Aerial Surveillance North Sea**
- **To Bonn Agreement Members**
- **To Other parties: Thetis**

- **Legal Request**

Collecting Information

- **EMSA Clean Sea Net information – satellite pictures**
- **Aerial Surveillance - report**
- **AIS (track) Information – Coast Guard**
- **Other - civil information**

Clean Sea Net – Satellite Images

- **Analysing images received, as a start of an investigation**
- **Use of images, when available as additional evidence to investigations**
- **Feed back to EMSA**

Clean Sea Net - Example

The screenshot displays the EMSA CleanSeaNet Community web application. The interface is split into two main sections: a map on the left and a data table on the right.

Map Section: The map shows a portion of the North Sea, labeled "Nordschillgrund". A red line with circular markers indicates a search track. A specific vessel, "F3-FB-1", is highlighted with a pink circle. The map also shows several other vessels represented by white icons.

Data Table Section: The table displays search results for a radar scan. The top row is highlighted in blue and contains the following information: "RADARSA...", "2014-03-05 06:05:09", "6", "2 Red/2 Yello...", and "Delivered". Below this, there is a search bar and a link to "EO Scene Detail Panel". A table with 4300 rows is shown, with the following columns: MMSI, IMO, Name, Callsign, Length, Typ, Draught, Hazarc, Destin, and ETA. The first few rows of data are as follows:

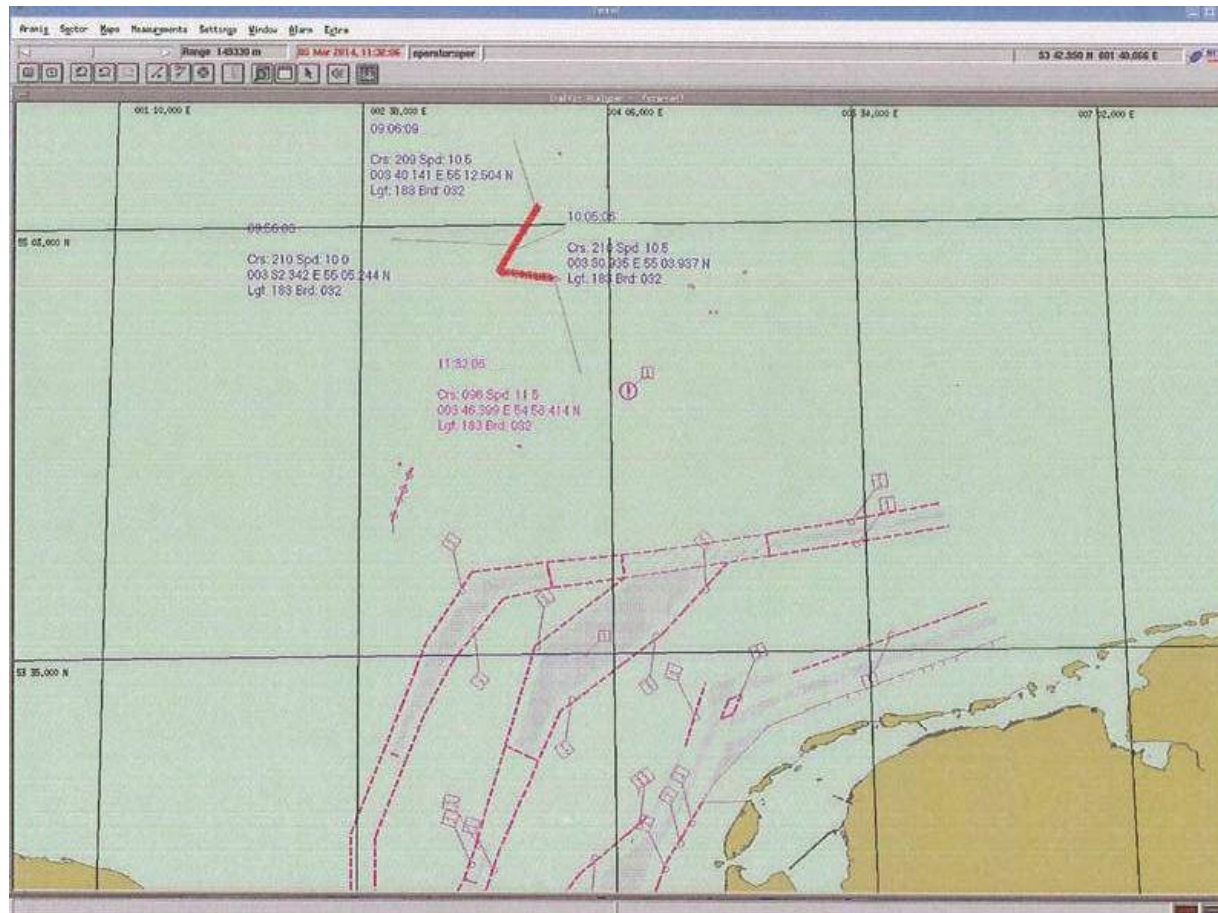
MMSI	IMO	Name	Callsign	Length	Typ	Draught	Hazarc	Destin	ETA
538005088		unknown	unknown					NLAMS	
235103453	81...	POLAR ...	2HGI7	73	95	4	U	GBHUL	
244690017		PONT 6	PC3808	36	60	1	U		
477017200		unknown	unknown					ANT...	
244780452		DERRA	PD5180	33	60	2	U	HOORN	
245999290	10...	APOLLO	PC8999	53	37		U	NLVLI	
5439490		SULA4YNE	OT4849	55	99	0	U	BEANR	
538005345	96...	GLOVIS...	V7CX5	199	73	8	N	ANT...	
236364000	93...	LS EVA	ZDHU4	100	81	5	U	MALMO	

The bottom status bar shows "Gereed" on the left and "Internet | Beveiligde modus: uitgeschakeld" on the right, along with a 100% zoom level.

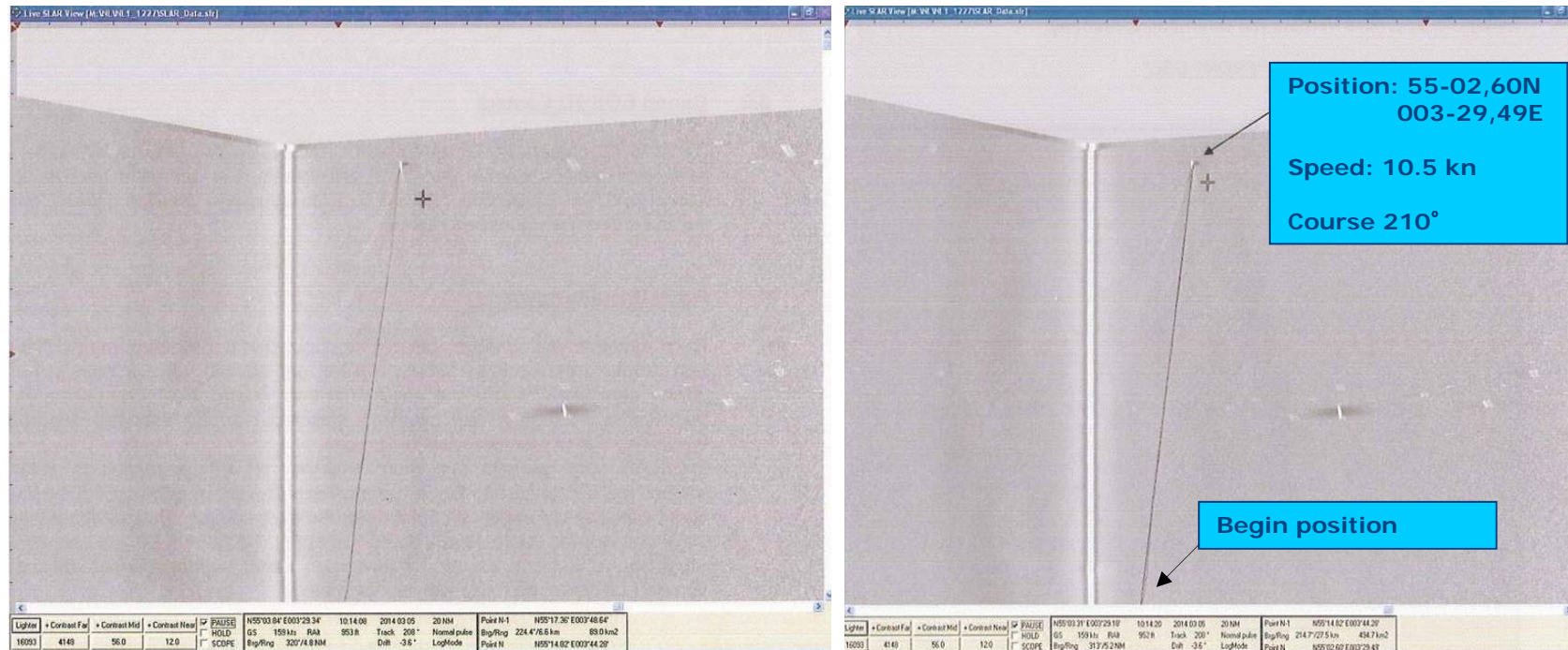
Aerial Surveillance

- **FLIR - Forward Looking Infra Red**
- **SLAR – Side Looking Airborne Radar**
- **Photos**
- **Oil Sampling Device (Discussion)**

AIS track information



Aerial Surveillance - SLAR



Adding of valuable information

Photos

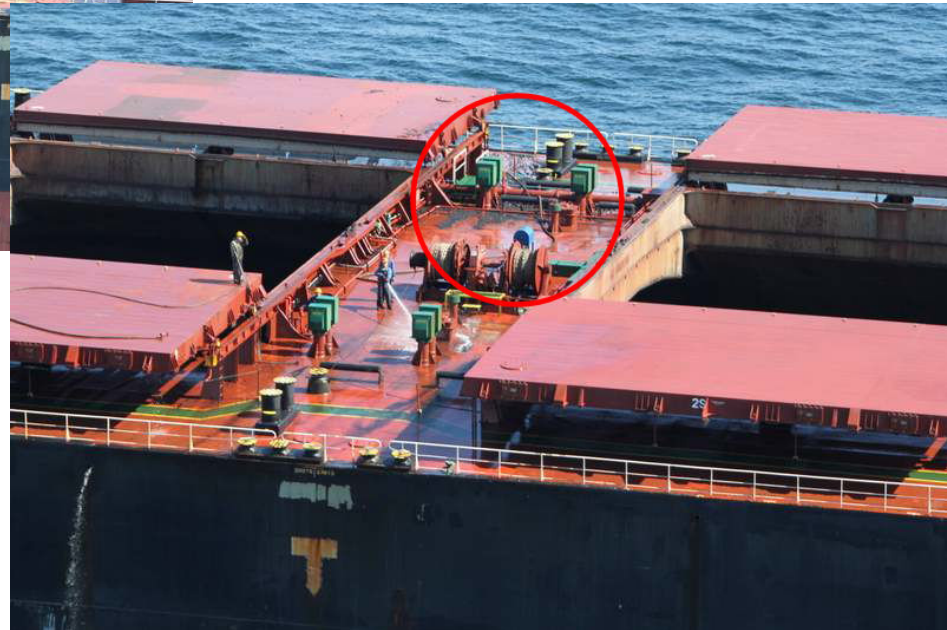


Connected hose to manifold;
discharge overboard



Criminal Offence !!

Photos



Criminal Offence !!

Photos



Criminal Offence !!



Sampling / Oil sampling device

Has it been useful in the past?

Useful to compare substances in the water with substances on board ship?

Useful for identification substance?

Special rules for taking samples !

How to bring samples to shore?

Accreditation of laboratory

Responsibility Pollution

Natural persons:

- **Master**
- **Acting Officers**

Legal bodies

- **Safety Management**
- **Ships Operator**
- **Ships Owner**

International Activities

Participation in:

- **NSN – North Sea Network of Investigators and Prosecutors**
- **Interpol – Environmental Crime Working Group – Clean Seas (Interpol Manuals on illegal discharging)**
- **Aquapol – Working Group Maritime Shipping**
- **EMSA – Combating illegal discharges in the marine environment**

Trainings

National and International level:

- **Marpol Annex I – Engine Room**
- **Marpol Annex II**

Any Questions !!

Thanks for the attention