# International Mediterranean Shipping Conference

### Reducing air pollution from ships

# The potential of a Mediterranean Emission Control Area (ECA)

Why would France undertake action for designating a Mediterranean ECA?

March, 28th 2017 Rome

Cécile RAFAT
Ship pollution prevention officer
Directorate for Maritime Affairs
French Ministry of The Environment

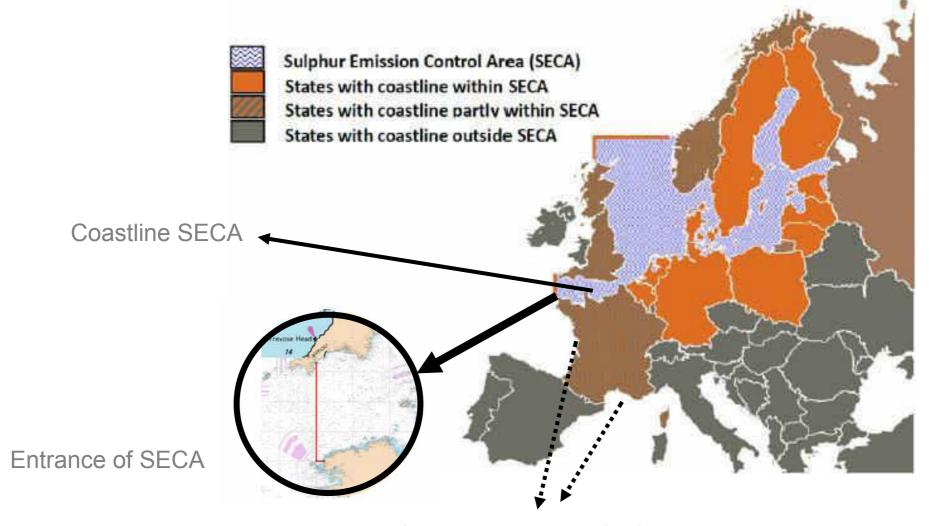




# France Strategic location and experience on implementing SOx regulations

## **Strategic location**

# Various and large coastlines coastlines within and outside SECA



Coastlines outside SECA

# Strategic location and experience on 0,1 %

### **Coastline within SECA**

### **English Channel-North Sea:**

 0,1 % of sulphur content for ships sailing in the SECA area since 2015

### Coastlines outside SECA

### **Atlantic-Mediterranean Sea:**

- 3,5 % of sulphur content (0,5 % in 2020)
- 1,5 % of sulphur content for passenger ships (EEZ)
- 0,1 % of sulphur content at berth when ships being at berth more than 2 hours

# Application and implementation of sulphur regulations

(MARPOL VI and EU regulation)

#### **Case of Cruise ships**

## How implement the judgment of the ECJ?

- ECJ, 23 January 2014, Manzi and Compagnia Naviera orchestra -

France has questioned the European Commission

France decided
1,5% of sulphur content
would apply to all
cruise ships

#### Inspections

654 documentary checks
225 in the Mediterranean Sea

2016

163 sampling and analysis 59 in the Mediterranean Sea

8 non-compliances
3 in the Mediterranean Sea
(1 cruise ship)

# Working toward more efficient ship monitoring

## Remote targeting

 France has been selected by EMSA for RPAS project (Remotly Piloting Aircraft Systems)

- What's RPAS ?
  - A tool for maritime surveillance, pollution monitoring, emission monitoring
  - An emission measurement tool: Sox ;Co2
- Tests in France are planned for summer or autumn 2017
- Benefits ?
  - Monitoring behaviours at sea
  - Increasing the likelyhood of getting caught of non compliant ships
  - targeting and enhancing Sox inspections by Port State Control

# Working toward more efficient ship monitoring

### **Fuel calculator**

- France is working on developping a fuel calculator (FC)
- FC is a tool used to control if a ship is compliant when it enters into a SECA area
- Benefits
  - monitoring behaviours at sea
  - Improving information for sanctions, FC is a useful tool for judicial proceeding

# The French initiative launch of an assessment for a Mediterranean ECA

### Political announcements

2016, Decembrer – COP 22, Marrakech



Monaco 's declaration in favour of a Mediterranean ECA

**2017**, February – International Conference « What solutions for Mediterranean », Paris



France's official announcement for an assessement

**2017**, March – 5th sulphur Committee, EC



**2017**, March – Union For Meditarranean



France's official announcement for an assessement

All funds for the assessment will be provided by France

## ECA procedures French capacities

# Experience: France took part in IMO process for designating ECA

 English Channel-North Sea NECA (2016): Entry into force on the 1st of january 2021

# Technical Expertise for designating a Mediterranean ECA(following criteria of MARPOL VI)

- Automatic Identification system (AIS) data analysis
- Definition of emission factor
- Meteorological parameters and emissions modeling capabilities (including dispersion)
- Analysis of the impacts on human health and the environment

## **Other French initiatives**

# Working on reducing particulate matter (PM) emissions from ship



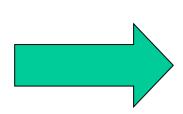
Which particules?

Which types of ship?



2017
Launch of working program

Which population?



roadmap for actions France could undertake to prevent and reduce PM emissions from ships (consolidation of R&D, proposal for regulation, undertake works at IMO)

## Working on alternative fuel distribution in Ports

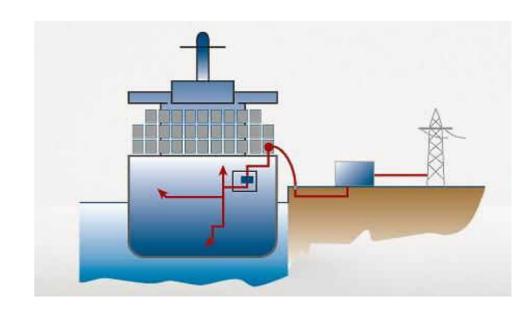
### Onshore power supply

### Port of Marseille:

- One terminal is equiped since july 2016
- 3 french ferries can use power supply at berth

#### Benefits:

- No emission any more at berth (Sox, Nox, PM)
- Reduction of nuisances (onboard,onshore)



## Working on alternative fuel distribution in Ports

### **Onshore power supply**

### **Environmental performance expected in Marseille**

Cut of vehicule

equivalent

D/R Mrs Aix (64 Kms) / ship/

day

CO2	4 298 T CO2 equivalent/an	2051
002	+ 200 i OO2 cquivalchivan	200

SOx 2,7 T/an

NOx 30,9 T/an 40 801

PM 4,8 T/an 1935

Source Ademe – April 2012

Source AirPaca -

November 2013

## Working on alternative fuel distribution in Ports

## Liquefied natural gas (LNG)

- National roadmap published in july 2016 for deploying LNG as marine fuel in France
- Projects for refueling infrastructure for LNG



# Thank you for your attention



