


European Maritime Safety Agency

## CleanSeaNet Training

### Alerting

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**Department C - Operations**  
**Unit C3 - Satellite Based Monitoring Services**  
**Section C.3.2 CleanSeaNet**



SAFEMED III Training for CleanSeaNet Operators – Lisbon– March 2014



European Maritime Safety Agency

## Contents

- Alerting Principles
- Alert Areas
- Oil Spill Centric Approach
- Alert Level
- Alert Report Content
- Phone Alert
- Communication Matrix
- Oil Spill Warning

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## Alerting principles

- Coastal States must be alerted when a possible spill is detected in **their alerting area**:
  - **Immediately** without waiting the end of image analysis if on-going or recent spill detected with a possibility to catch a polluter in the act: **Oil Spill Warning**
  - **Within NRT delays\*** for other spills: full **Alert report** containing all spills detected in the alert area
- Coastal States must be notified when no spill is detected in their alert area:
  - **Clean Sea Notification sent within NRT delays**

\* Satellite images are acquired in segments up to 1400 km long. Near Real Time delay is 30 min for a 400 km long image and increases with segment length up to 55 minutes for 1420 km long images

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## Alerting Principles – Alert Areas

- Alert Areas are areas where Coastal States want to be alerted by email and optionally by phone each time a possible spill is detected
- Alert areas definition has no legal consequence on the delimitation of maritime boundaries
- Alert Areas are national and have no impact on the alert configuration of other Coastal States
- Alert Areas common to 2 Coastal States A and B must be defined twice: once by A and once by B

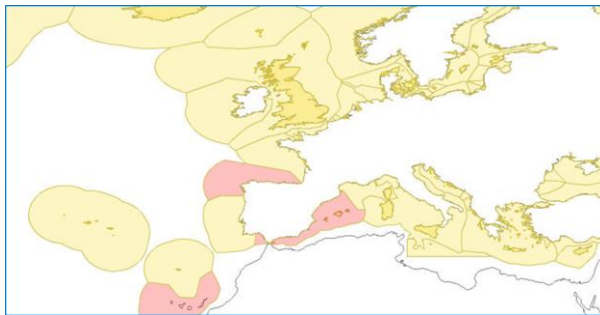
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## Alerting Principles – Alert Areas

- **For each individual alert area**, coastal States
  - Must select **at least one alert email recipient**
  - May select an unlimited number of additional alert email recipients
  - May select **optionally one but only one phone alert recipient**
  - May define **specific alert rules** different from the ones implemented by default
- CleanSeaNet is initially configured with one alert area per Coastal State called the “Baseline”
- Coastal States may define other alert areas. The number is not limited.
- Alert Areas may consist of one or several polygons

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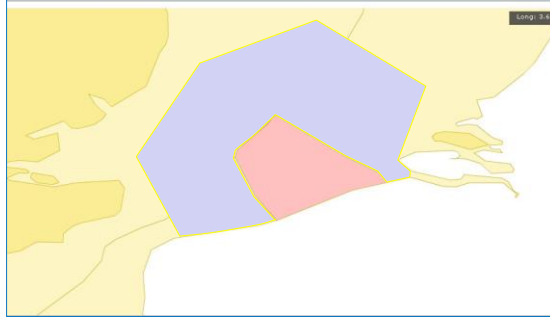
## Alerting Principles – Alert Areas - Baseline



- The union of baseline areas cover all EU waters.
  - One baseline per Coastal State
  - Can only be disabled if other national alert areas cover entirely the initial baseline
- => at least one Coastal State receive an alert email for each possible spill detected

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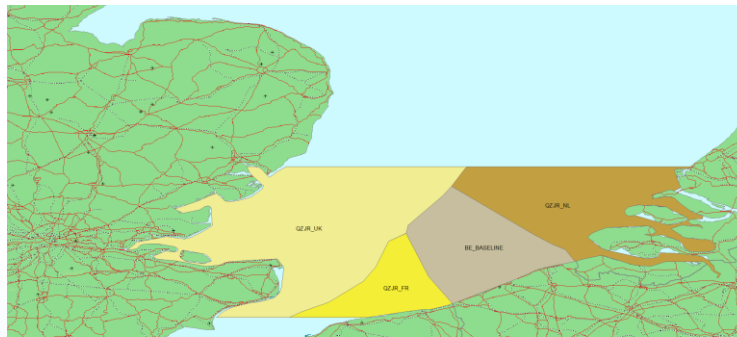
## How to get alerts beyond the baseline



- Create additional areas as per CS needs
- Additional alerting areas provided by CS uploaded by EMSA
- Format: shape files
- Examples: Regional Agreement areas, SUPERCEPCO areas, Sensitive areas...

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## How to get alerts beyond the baseline



- Example: Quadripartite zone of joint responsibility in the English Channel

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## How to deal with baseline sub areas

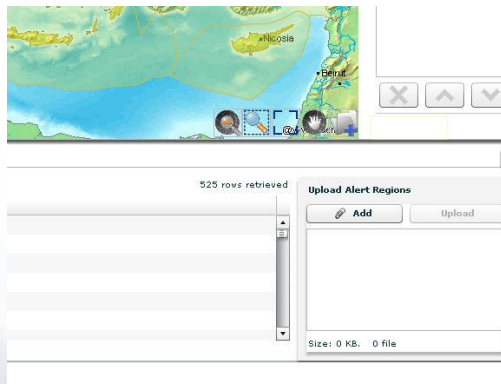


- Alerts centralised at CS level - No action required
- Alerts specific to sub areas:
  - Additional areas have to be created on top of baseline
  - Alerts are configured for each individual areas

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## How to create Alert Areas

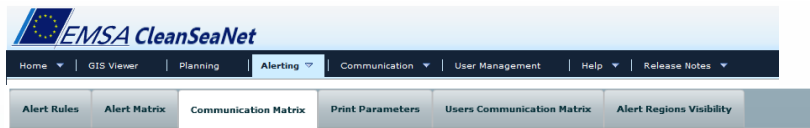
- Provided by Coastal States as shape files
- Uploaded by CSN Service Desk
- Configuration of Visibility by other Coastal States configured by the Coastal State itself



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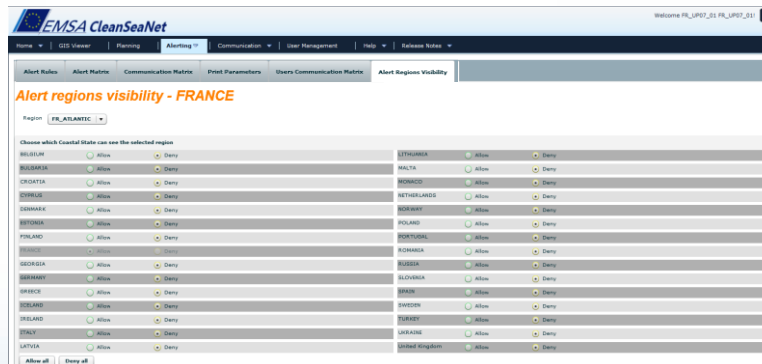
## Alerting menu

- Available only to Operational representatives (UP20)
- Used to configure the Alerting system for all areas in the country



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## Managing Alert Areas



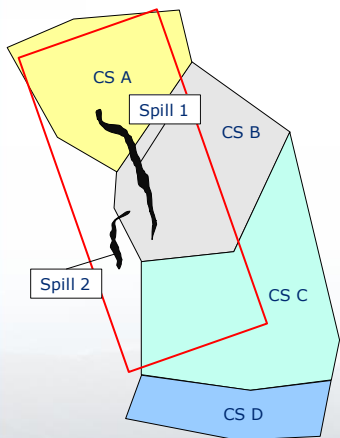
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Authorising other Coastal States to see national Alert Areas

Only operational representatives can manage the alert system



Alerting principles – Oil Spill Centric Approach



Each time a satellite image is covering even partially one national Alert Area, the Coastal State will receive:

- A “CleanSeaNet Alert Report” if at least one spill polygon is intersecting one national Alert Area
- a “CleanSeaNet Notification” of Clean Sea if no spill intersects the national Alert Areas

CS A and CS B will receive an Alert Report  
CS C will receive a CleanSeaNet Notification  
CS D will not be alerted



CleanSeaNet Alert Report

SPAIN

Acquisition: 2011-10-05 22:38:46 UTC

Scene ID: 13977

ENVISAT - ASAR/WS

GIS Viewer



Comments




List of possible spills


Spill # on map	Spill Identifier	Centre Position		Area (nm²)	Length (nm)	Width (nm)	Alert	Oil Spill Warning Issued	Possible Source	
		Latitude	Longitude						Detected	Identified
1	OS_13977_1	43.43787	-9.99482	1.30	9.996851	0.396560	Green	N/A	Yes	No
2	OS_13977_2	44.72608	-9.04886	0.93	1.766042	0.747524	Green	N/A	Yes	No
3	OS_13977_3	45.02441	-9.21735	0.66	3.002023	0.493563	Green	N/A	Yes	No

Note: Possible spills outside alert area are presented on map as - Additional spills may also have been reported outside the map - Please consult GIS Viewer





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CleanSeaNet Notification

EUROPEAN UNION

Acquisition: 2012-03-21 08:06:20 UTC


Scene ID: 19897

RADARSAT-2 - SAR\_R

[GIS Viewer](#)



Comments




Clean sea

No possible spills have been detected in the alert area

Note: Possible spills outside alert area are presented on map as  - Additional spills may also have been reported outside the map - Please consult GIS Viewer

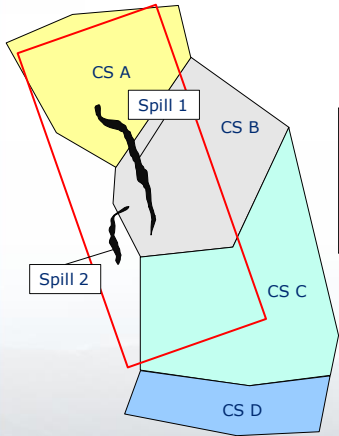
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### Alerting principles – Spills reported in Alert Report



The Alert Report reports spills whose polygons intersect one of the national alert areas

"Alert Report" for CS A will report Spill 1

"Alert Report" for CS B will report Spill 1 and Spill 2

"Notification" for CS C will report a Clean Sea

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Spills reported in the Alert report - Example

CleanSeaNet Alert Report

ITALY

Acquisition: 2011-12-02 09:18:21 UTC

Scene ID: 16203

ENVISAT - ASAR/WS

[GIS Viewer](#)

Comments

List of possible spills

Spill # on map	Spill Identifier	Centre Position		Area (km²)	Length (km)	Width (km)	Alert	Oil Spill Warning Issued	Possible Source	
		Latitude	Longitude						Detected	Identified
1	OS_16203_1	39° 33' 56" N	012° 54' 22" E	12.81	8.718729	1.469036	Green	N/A	Yes	No
2	OS_16203_2	35° 31' 11" N	012° 24' 39" E	29.30	37.16071	0.786332	Green	N/A	Yes	No

Note: Possible spills outside alert area are presented on map as - Additional spills may also have been reported outside the map - Please consult GIS Viewer

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Spills reported in the Alert report - Example

CleanSeaNet Alert Report

ITALY

Acquisition: 2011-12-02 09:18:21 UTC

Scene ID: 16203

ENVISAT - ASAR/WS

[List of Spills](#) [GIS Viewer](#)

Details of possible Spill n°2 - OS\_16203\_2

Centre Position		SAR Wind at Center		Area (km²)	Length (km)	Width (km)	Class (A/B)	Alert Level	Number of slicks	Oilspill Warning Issued
Latitude	Longitude	Direction (From)	Speed (m/s)							
35° 31' 11" N	012° 24' 39" E	304	2.7	29.30	37.16071	0.786332	B	Green	2	Unknown

Meteorological and Ocean Data

Sea State	N/A	Wave Height	0.5
Met Wind	Direction (from)		290
	Speed (m/s)		2
Current	Direction (from)		N/A
	Speed (m/s)		N/A

Note: Gray fields are parameters set as "invisible" in the Print Parameters matrix or not available

Comments from Service Provider

Possible source information

N.	Detected	Dist.(km)	Identified	Type	IMO	Name	MMSI	C/S	Latitude	Longitude	Time (UTC)	Track
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Spills reported in the Alert report - Example

CleanSeaNet Alert Report



MALTA

Acquisition: 2011-12-02 09:18:21 UTC

Scene ID: 16203

ENVISAT - ASAR/WS

[GIS Viewer](#)



Comments

Spill # on map	Spill Identifier	Centre Position		Area (km²)	Length (km)	Width (km)	Alert	Oil Spill Warning Issued?	Possible Source	
		Latitude	Longitude						Detected	Identified
1	OS_16203_2	35° 31' 11" N	012° 24' 39" E	29.30	37.16071	0.788332	Yes	N/A	Yes	No

Note: Possible spills outside alert area are presented on map as - Additional spills may also have been reported outside the map - Please consult GIS Viewer

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Optimised zoom level for maps

CleanSeaNet Alert Report



ITALY

Acquisition: 2011-12-02 09:18:21 UTC

Scene ID: 1603

ENVISAT - ASAR/WS

[GIS Viewer](#)



Comments

Spill # on map	Spill Identifier	Centre Position		Area (km²)	Length (km)	Width (km)	Alert	Oil Spill Warning Issued?	Possible Source	
		Latitude	Longitude						Detected	Identified
1	OS_1603_1	39° 02' 38" N	012° 04' 22" E	12.84	14.718729	1.496033	N/A	Yes	No	No
2	OS_1603_2	39° 31' 11" N	012° 24' 39" E	29.30	37.16071	0.788332	Yes	N/A	Yes	No

Note: Possible spills outside alert area are presented on map as - Additional spills may also have been reported outside the map - Please consult GIS Viewer

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Net Alert Report

MALTA

Acquisition: 2011-12-02 09:18:21 UTC

Scene ID: 162

ENVISAT - ASAR/WS

[GIS Viewer](#)



Spill # on map	Spill Identifier	Centre Position		Area (km²)	Length (km)	Width (km)	Alert	Oil Spill Warning Issued?	Possible Source	
		Latitude	Longitude						Detected	Identified
1	OS_16203_2	35° 31' 11" N	012° 24' 39" E	29.30	37.16071	0.788332	Yes	N/A	Yes	No

Note: Possible spills outside alert area are presented on map as - Additional spills may also have been reported outside the map - Please consult GIS Viewer

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Extent of the map: Intersection between scene footprint and national alert areas

## Alert Level of Spills Reported

Based on 3 factors:

- **Likelihood**
  - Likelihood of the reported spill being oil
  - 2 values: classification A or classification B
  - Information provided by CleanSeaNet service providers
- **Culprit**
  - Probability that a clear culprit can be identified
  - Information calculated by CleanSeaNet data centre based on culprit rules defined by Coastal States for each alert area
  - 3 values: High, Medium, or Low
- **Impact**
  - Level of potential damage to the environment
  - Information calculated by CleanSeaNet data centre based on impact rules defined by Coastal States for each alert area
  - 3 values: High, Medium, or Low

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## Alert Level of Spills Reported - Culprit

Tools to define Culprit Alert Rules

- Vessel connected
- Possible Polluter Identified
- Vessel track matches spill's shape
- Distance to TSS, Rigs, Pipelines
- Traffic Density



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## Alert Level of Spills Reported - Impact

Tools to define Impact Alert Rules



- Surface area
- Distance to Sensitive Areas
- Distance to Shoreline

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## Alert Level of Spills Reported – Alert Rules

- Operational rules defined by each CS for each CS alerting area using Culprit and Impact tools
- Entered into the system by the CSN Service Desk
- Alert rules are defined Only culprit and impact alert rules (Spill Confidence level provided by Service provider)
- By default all alert rules are set to Low. Consequently, only high and medium levels need to be defined

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Alert Level of Spills Reported

Three Alert Levels: GREEN, YELLOW, and RED calculated by the CleanSeaNet Data Centre via the Alert Matrix

		Impact					
		High		Medium		Low	
Culprit	High	A	Red	A	Red	A	Red
		B	Red	B	Red	B	Yellow
	Medium	A	Yellow	A	Yellow	A	Yellow
		B	Yellow	B	Yellow	B	Yellow
	Low	A	Yellow	A	Green	A	Green
		B	Yellow	B	Green	B	Green

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- Impact and Culprit values result from rules defined for each area
- Likelihood, Impact and Culprit used as input for the Alert Matrix which is unique per Coastal State

Consequently, if the same spill affects 2 countries, the alert level will be calculated separately based on the alert level configuration of each country.



Alert Level of Spills Reported – Example

CleanSeaNet Alert Report  
ITALY  
Source ID: 16203  
ENVIAT - ASARWS  
Acquisition: 2011-12-02 09:18:21 UTC  
GIS Viewer

Comments

List of possible spills

Spill # on map	Spill Identifier	Centre Position	Area (km²)	Length (km)	Width (km)	Alert	Oil Spill Warning Issued	Possible Source	
		Latitude	Longitude					Detected	Identified
1	OS_16203_1	38° 38' 38" N	012° 24' 22" E	12.85	0.116229	0.788332	Green	Yes	No
2	OS_16203_2	38° 31' 11" N	012° 24' 38" E	29.30	0.116271	0.788332	Green	Yes	No

Note: Possible spills outside alert area are presented on map as ... Additional spills may also have been reported outside the map - Please consult GIS Viewer

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Net Alert Report  
MALTA  
Acquisition: 2011-12-02 09:18:21 UTC  
GIS Viewer

List of possible spills

Spill # on map	Spill Identifier	Centre Position	Area (km²)	Length (km)	Width (km)	Alert	Oil Spill Warning Issued	Possible Source	
		Latitude	Longitude					Detected	Identified
1	OS_16203_2	35° 31' 11" N	012° 24' 38" E	29.30	0.116271	0.788332	Red	Yes	No

Note: Possible spills outside alert area are presented on map as ... Additional spills may also have been reported outside the map - Please consult GIS Viewer

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Alert Level defined per Coastal State

Same possible spill: Red alert for Malta – Green for Italy

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## Alert Level of Spills Reported

How to configure the Alert Matrix

Alert Matrix			
Communication Matrix			
Print Parameters			
Alert Matrix - Netherlands			
Culpitt	Impact	Likelihood	ALERT LEVEL
High	High	A	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
High	High	B	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
High	Medium	A	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
High	Medium	B	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
High	Low	A	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
High	Low	B	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Medium	High	A	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Medium	High	B	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Medium	Medium	A	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Medium	Medium	B	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Medium	Low	A	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Medium	Low	B	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Low	High	A	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Low	High	B	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Low	Medium	A	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Low	Medium	B	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Low	Low	A	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Low	Low	B	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green



Only operational representatives can configure the alert system

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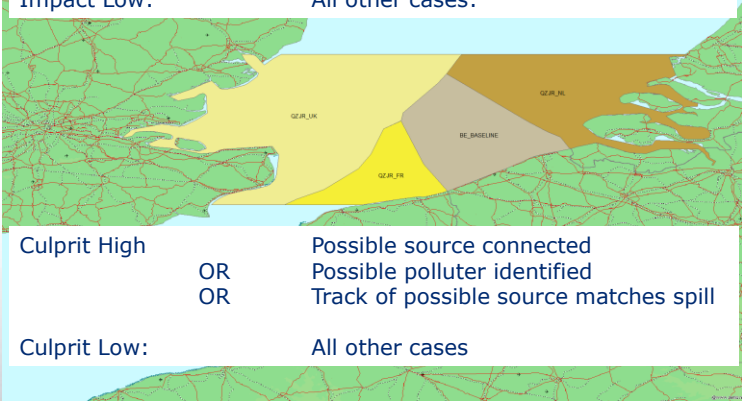
## Alert configuration: the UK example

Alert Rules			
Alert Matrix			
Communication Matrix			
Print Parameters			
Users Communication Matrix			
Alert Regions Visibility			
Alert Matrix			
Coastal State: <span>United Kingdom</span>			
Use only the classification (Likelihood)			
Culpitt	Impact	Likelihood	ALERT LEVEL
High	High	<span>A</span>	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
High	High	<span>B</span>	<input type="radio"/> Red <input type="radio"/> Yellow <input checked="" type="radio"/> Green
High	Medium	<span>A</span>	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
High	Medium	<span>B</span>	<input type="radio"/> Red <input type="radio"/> Yellow <input checked="" type="radio"/> Green
High	Low	<span>A</span>	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
High	Low	<span>B</span>	<input type="radio"/> Red <input type="radio"/> Yellow <input checked="" type="radio"/> Green
Medium	High	<span>A</span>	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Medium	High	<span>B</span>	<input type="radio"/> Red <input type="radio"/> Yellow <input checked="" type="radio"/> Green
Medium	Medium	<span>A</span>	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Medium	Medium	<span>B</span>	<input type="radio"/> Red <input type="radio"/> Yellow <input checked="" type="radio"/> Green
Medium	Low	<span>A</span>	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Medium	Low	<span>B</span>	<input type="radio"/> Red <input type="radio"/> Yellow <input checked="" type="radio"/> Green
Low	High	<span>A</span>	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Low	High	<span>B</span>	<input type="radio"/> Red <input type="radio"/> Yellow <input checked="" type="radio"/> Green
Low	Medium	<span>A</span>	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Low	Medium	<span>B</span>	<input type="radio"/> Red <input type="radio"/> Yellow <input checked="" type="radio"/> Green
Low	Low	<span>A</span>	<input checked="" type="radio"/> Red <input type="radio"/> Yellow <input type="radio"/> Green
Low	Low	<span>B</span>	<input type="radio"/> Red <input type="radio"/> Yellow <input checked="" type="radio"/> Green

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Alert Configuration: the Belgian example

Quadrupartite Zone of Joint Responsibility: BE, FR, NL, UK  
Same Impact and Culprit rules for the 4 areas:  
Impact High: Possible spill > 1 km<sup>2</sup>  
OR Distance to coastline < 12 nm  
Impact Low: All other cases:  
  
Culprit High: Possible source connected  
OR Possible polluter identified  
OR Track of possible source matches spill  
Culprit Low: All other cases



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Alert configuration: the Belgian example


Alert Rules	Alert Matrix	Communication Matrix	Print Parameters	Users Communication Matrix	Alert Regions Visibility
<b>Alert Matrix</b>					
Coastal State: <b>BELGIUM</b>					
No medium value defined => High or Low					
Culprit	Impact	Likelihood	ALERT LEVEL		
High	High	A	Red	Yellow	Green
High	High	B	Red	Yellow	Green
High	Medium	A	Red	Yellow	Green
High	Medium	B	Red	Yellow	Green
High	Low	A	Red	Yellow	Green
High	Low	B	Red	Yellow	Green
Medium	High	A	Red	Yellow	Green
Medium	High	B	Red	Yellow	Green
Medium	Medium	A	Red	Yellow	Green
Medium	Medium	B	Red	Yellow	Green
Medium	Low	A	Red	Yellow	Green
Medium	Low	B	Red	Yellow	Green
Low	High	A	Red	Yellow	Green
Low	High	B	Red	Yellow	Green
Low	Medium	A	Red	Yellow	Green
Low	Medium	B	Red	Yellow	Green
Low	Low	A	Red	Yellow	Green
Low	Low	B	Red	Yellow	Green

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Alert Report Content – Summary page



CleanSeaNet Alert Report


SPAIN

Acquisition: 2011-10-05 22:38:46 UTC


Scene ID: 13977

ENVISAT - ASAR/WS

[GIS Viewer](#)



Comments



List of possible spills

Spill # on map	Spill Identifier	Centre Position		Area (nm²)	Length (nm)	Width (nm)	Alert	Oil Spill Warning Issued	Possible Source	
		Latitude	Longitude						Detected	Identified
1	OS_13977_1	43.43787	-9.99482	1.30	9.996851	0.396560	Green	N/A	Yes	No
2	OS_13977_2	44.72608	-9.04886	0.93	1.766042	0.747524	Green	N/A	Yes	No
3	OS_13977_3	45.02441	-9.21735	0.66	3.002023	0.493583	Green	N/A	Yes	No

Note: Possible spills outside alert area are presented on map as - Additional spills may also have been reported outside the map - Please consult GIS Viewer


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Alert Report Content – Spill Details page 1/2



CleanSeaNet Alert Report

SPAIN

Acquisition: 2011-10-05 22:38:46 UTC


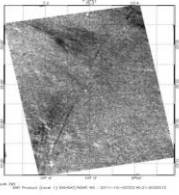
Scene ID: 13977

ENVISAT - ASAR/WS

[List of Spills](#) [GIS Viewer](#)

Details of possible Spill n°1 - OS\_13977\_1

Centre Position		SAR Wind at Center		Area (nm²)	Length (nm)	Width (nm)	Class (A/B)	Alert Level	Number of slicks	Oilspill Warning Issued
Latitude	Longitude	Direction (From)	Speed (m/s)							
43.43787	-9.99482	0	0	1.30	9.996851	0.396560	A	Green	3	Unknown



Meteorological and Ocean Data

Sea State	N/A	Wave Height	0
Met. Wind		Direction (from)	0
		Speed (m/s)	0
Current		Direction (from)	N/A
		Speed (m/s)	N/A

Note: Grey fields are parameters set as "invisible" in the Print Parameters matrix or not available

Comments from Service Provider

Possible source information

N.	Detected	Dist.(Km)	Identified	Type	IMO	Name	MMSI	C/S	Latitude	Longitude	Time (UTC)	Track
----	----------	-----------	------------	------	-----	------	------	-----	----------	-----------	------------	-------

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Alert Report Content – Spill Details page 2/2

CleanSeaNet Alert Report

SPAIN

Acquisition: 2011-10-05 22:38:46 UTC

Scene ID: 13977

ENVISAT - ASARI/WS

List of Spills

GIS Viewer

Additional Information

Distance (null) to					Traffic Density
Sensitive Areas	Shoreline	TSS/Shipping Lanes	Rigs/Offshore	Known Wrecks	
N/A	N/A	0	N/A	N/A	N/A

Note: Grey fields are parameters set as "invisible" in the Print Parameters matrix

Alert rules parameters

Classification

A

Note: Classification level is set by the operator analysing the satellite image  
Impact and Culprit values ("High", "Medium" or "Low") are the result of alert level rules defined by the Coastal State.  
Grey fields are parameters selected as "invisible" in the Print Parameters matrix or parameters for which the alert rules

List of slicks composing the spill

Slick ref. on Map	Centre position		Area (nm²)	Length (nm)	Width (nm)
	Latitude	Longitude			
A	43.30190	-10.06871	0.9625310452	7.6435500	0.3965608
B	43.48050	-9.98330	0.1979454721	1.1568202	0.2468185
C	43.56197	-9.90990	0.1439302114	1.1964816	0.1627469

List of affected areas

Country	Zone	Impact	Culprit
Spain	ES_ATLANTIC	Low	Low
Spain	baseline	Low	Low

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Alerting Matrix - Print Parameters

Alert Rules

Alert Matrix

Communication Matrix

Print Parameters

Users Communication Matrix

Alert Regions Visibility

Print Parameters - GERMANY

Likelihood

Likely of a detection being a oil

☒ Visible

☐ Invisible

Impact

Distance to sensitive areas

☒ Visible

☐ Invisible

Distance to shoreline

☒ Visible

☐ Invisible

Surface area of detected slick

☒ Visible

☐ Invisible

Culprit

Distance to TSS or shipping lanes

☐ Visible

☒ Invisible

Distance to Pipelines

☒ Visible

☐ Invisible

Distance to rigs and offshore installations

☒ Visible

☐ Invisible

Distance to known wrecks

☒ Visible

☐ Invisible

Possible polluter identified

☒ Visible

☐ Invisible

Shape of the slick aligned with track

☒ Visible

☐ Invisible

Traffic density

☒ Visible

☐ Invisible

Vessel connected to the detected slick

☒ Visible

☐ Invisible

Met and Ocean

Currents

☒ Visible

☐ Invisible

Sea state assessment

☒ Visible

☐ Invisible

Wave height

☒ Visible

☐ Invisible

Wind speed

☒ Visible

☐ Invisible

Units of measure

Coordinates

☐ Decimal

☒ Sexagesimal

Distances


☐ m

☒ Km

Print parameters affect the content of the alert report but not the alert level


Only operational representatives can configure the alert system: UP20

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European Maritime Safety Agency

## Alerting Matrix - Print Parameters



CleanSeaNet Alert Report

FRANCE

Acquisition: 2011-10-05 09:43:14 UTC

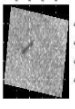
Scene ID: 14378

ENVISAT - ASARWS

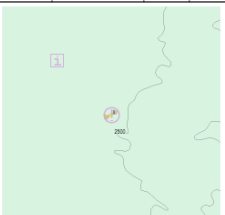
List of SpillsGIS Viewer

Details of possible Spill n°1 - OS\_14378\_4

Centre Position		SAR Wind at Center		Area (km²)	Length (km)	Width (km)	Class (A/B)	Alert Level	Number of slicks	Oilspill Warning Issued
Latitude	Longitude	Direction (From)	Speed (m/s)							
42° 01' 42" N	008° 09' 32" E	126	3.2	0.80	1.968660	0.405732	B	Yellow	1	Unknown



ENVISAT - 2011-10-05 09:43:10



Meteorological and Ocean Data

Sea State	N/A	Wave Height	0.2
Met Wind	Direction (from)	Speed (m/s)	
Current	Direction (from)	Speed (m/s)	N/A

Note: Grey fields are parameters set as "invisible" in the Print Parameters matrix or not available

Comments from Service Provider


N. Detected

If Met and Ocean data information is displayed or not depends of the Print Parameters configured by CS

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Email: MaritimeSupportServices@emsa.europa.eu

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European Maritime Safety Agency

## Alerting Matrix - Print Parameters



CleanSeaNet Alert Report

FRANCE

Acquisition: 2011-10-05 09:43:14 UTC

Scene ID: 14378

ENVISAT - ASARWS

List of SpillsGIS Viewer

Additional Information

Sensitive Areas	Shoreline	Distance (km) to TSS/Shipping Lanes	Rigs/Offshore	Known Wrecks	Traffic Density
1258.7	N/A	471.6	N/A	N/A	N/A

Note: Grey fields are parameters set as "invisible" in the Print Parameters matrix

Alert rules parameters

Classification: B

Note: Classification level is set by the operator analysing the satellite image. Impact and Culprit values ("High", "Medium" or "Low") are the result of alert level rules defined by the Coastal State. Grey fields are parameters selected as "invisible" in the Print Parameters matrix or parameters for which the alert rules

List of slicks composing the spill

Slick ref. on Map	Centre position	Area (km²)	Length (km)	Width (km)	
	Latitude	Longitude			
A	42° 01' 41" N	008° 09' 33" E	0.79875	1.9686608	0.4057327

List of affected areas

Country	Zone	Impact	Culprit
France	baseline	Medium	Low
France	FR_MEDITERRANE	Low	Low

If "Additional information" and "Alert rule parameters" is displayed or not depends of the "Print Parameters" configured by CS

Geographical Position formats and units are also configured via the "Print Parameters "

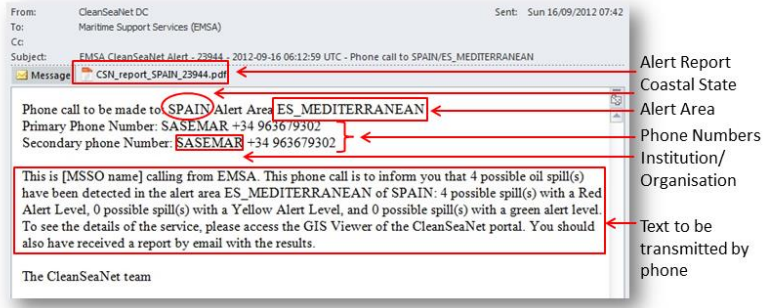
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## Phone alert

- Email to MSS for each alert area affected by one or more possible spills:



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## Communication matrix

- Used to select which users should be alerted and how when a spill affects an alerting area.
- Defined and Configured by Coastal State
- Only one communication matrix per Coastal State
- By default, only one Primary and one secondary voice contacts for phone alerts. Possibility to have one per area.
- One email per area is mandatory
- Only CS Operational representatives can configure the alert system hence the communication matrix
- **IMPORTANT:** Changing User details may affect the behavior of the alerting system. Make sure that user management and communication matrix are configured in a consistent way

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Communication Matrix Example

Alert RulesAlert MatrixCommunication MatrixPrint ParametersUsers Communication MatrixAlert Regions Visibility

Communication Matrix - GERMANY

Sub Areas

Sub Area

DE\_Alert\_Zone

Primary Voice

DE\_MLZ

Secondary Voice

DE\_MLZ

Red

Yellow

Green

User

DE\_ALEXANDER.BRU...☐ Email

DE\_ANDREAS.EICKEN...☐ Email

DE\_BFG1☒ Email

DE\_BFG2☒ Email

DE\_BFG3☒ Email

DE\_BFG4☐ Email

DE\_BSH1☒ Email

DE\_BSH2☒ Email

RED

YELLOW

GREEN

Not in place

If a spill affects Portugal baseline, the user Portugal\_001 will:

- Always receive an email alert
- Receive a phone alert for Red or Yellow alert level spill

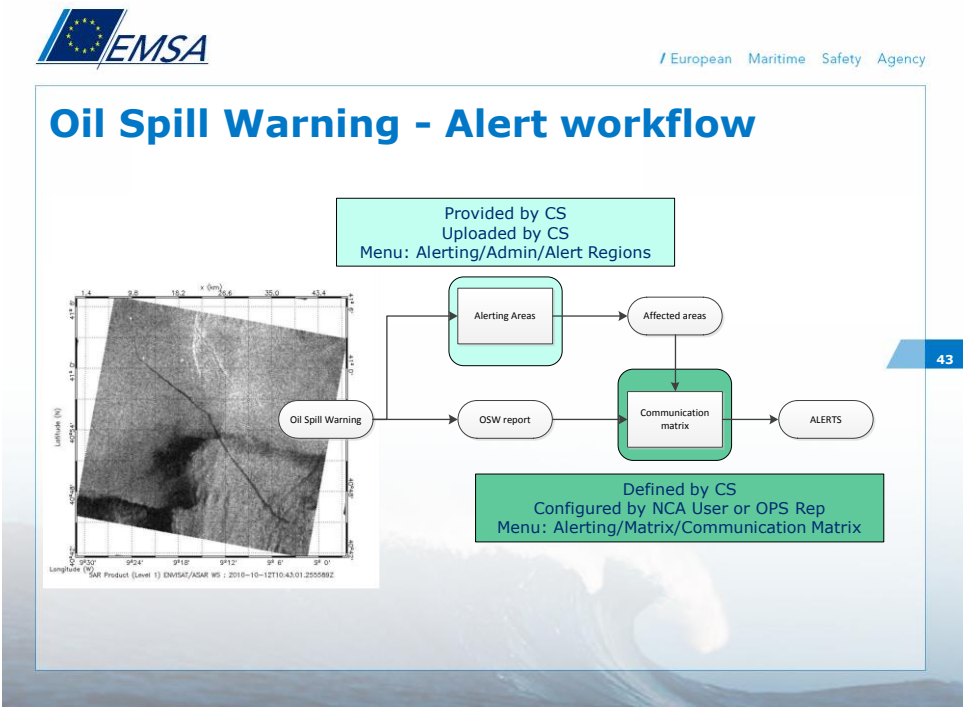
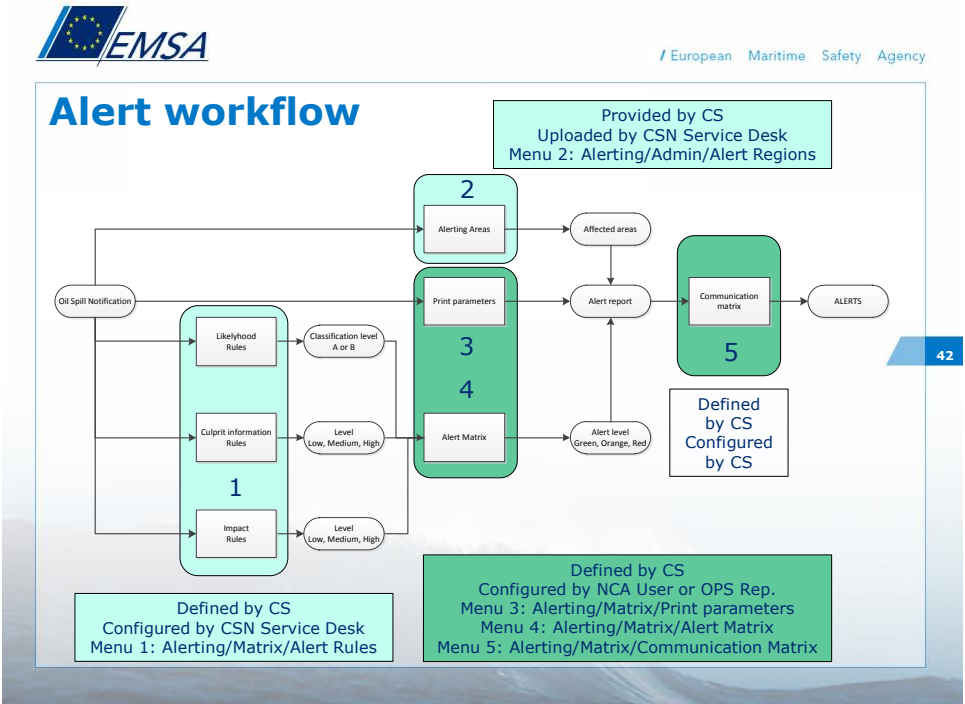
In case, it is not possible to join the user Portugal\_001, the user Portugal\_002 will be called.

SMS and MMS are not in service for the time being



User Communication Matrix Example

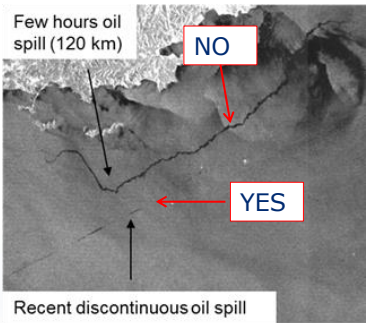
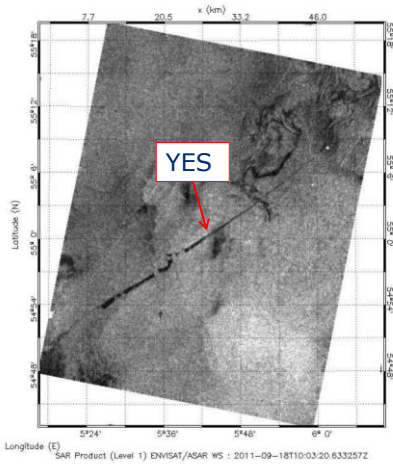
Organisation	Area	Account	Alert Level	Alert channel	Surname	Name	Alert Email	Alert Phone	Alert SMS
GERMANY	DE_Alert_Zone	DE_ALEXANDER...	Green	None	BRUENS	ALEXANDER	alexanderbruens@bund...	+494741942700	
GERMANY	DE_Alert_Zone	DE_ALEXANDER...	Red	None	BRUENS	ALEXANDER	alexanderbruens@bund...	+494741942700	
GERMANY	DE_Alert_Zone	DE_ALEXANDER...	Yellow	None	BRUENS	ALEXANDER	alexanderbruens@bund...	+494741942700	
GERMANY	DE_Alert_Zone	DE_ANDREAS.E...	Green	None	EICKENJAEGER	ANDREAS	andreas.eickenjager@b...	+494741942700	
GERMANY	DE_Alert_Zone	DE_ANDREAS.E...	Red	None	EICKENJAEGER	ANDREAS	andreas.eickenjager@b...	+494741942700	
GERMANY	DE_Alert_Zone	DE_ANDREAS.E...	Yellow	None	EICKENJAEGER	ANDREAS	andreas.eickenjager@b...	+494741942700	
GERMANY	DE_Alert_Zone	DE_BFG1	Green	None	BASCHEK	BJOERN	baschek@bafg.de	0000	
GERMANY	DE_Alert_Zone	DE_BFG1	Red	None	BASCHEK	BJOERN	baschek@bafg.de	0000	
GERMANY	DE_Alert_Zone	DE_BFG1	Red/Yellow/Green	Email	BASCHEK	BJOERN	baschek@bafg.de	0000	
GERMANY	DE_Alert_Zone	DE_BFG1	Yellow	None	BASCHEK	BJOERN	baschek@bafg.de	0000	
GERMANY	DE_Alert_Zone	DE_BFG2	Green	None	HUNSAENGER	THOMAS	hunsae...@bafg.de	+4926113065346	
GERMANY	DE_Alert_Zone	DE_BFG2	Red	None	HUNSAENGER	THOMAS	hunsae...@bafg.de	+4926113065346	
GERMANY	DE_Alert_Zone	DE_BFG2	Red/Yellow/Green	Email	HUNSAENGER	THOMAS	hunsae...@bafg.de	+4926113065346	
GERMANY	DE_Alert_Zone	DE_BFG2	Yellow	None	HUNSAENGER	THOMAS	hunsae...@bafg.de	+4926113065346	
GERMANY	DE_Alert_Zone	DE_BFG3	Green	None	KRANZ	SUSANNE	kranz@bafg.de	+4926113065410	
GERMANY	DE_Alert_Zone	DE_BFG3	Red	None	KRANZ	SUSANNE	kranz@bafg.de	+4926113065410	
GERMANY	DE_Alert_Zone	DE_BFG3	Red/Yellow/Green	Email	KRANZ	SUSANNE	kranz@bafg.de	+4926113065410	
GERMANY	DE_Alert_Zone	DE_BFG3	Yellow	None	KRANZ	SUSANNE	kranz@bafg.de	+4926113065410	
GERMANY	DE_Alert_Zone	DE_BSH1	Green	None	JANSSEN	FRANK	frank.janssen@bsh.de	+494031903130	
GERMANY	DE_Alert_Zone	DE_BSH1	Red	None	JANSSEN	FRANK	frank.janssen@bsh.de	+494031903130	
GERMANY	DE_Alert_Zone	DE_BSH1	Red/Yellow/Green	Email	JANSSEN	FRANK	frank.janssen@bsh.de	+494031903130	
GERMANY	DE_Alert_Zone	DE_BSH1	Yellow	None	JANSSEN	FRANK	frank.janssen@bsh.de	+494031903130	
GERMANY	DE_Alert_Zone	DE_BSH2	Green	None	MASSMANN	SILVIA	silvia.massmann@bsh.de	+494031903136	
GERMANY	DE_Alert_Zone	DE_BSH2	Red	None	MASSMANN	SILVIA	silvia.massmann@bsh.de	+494031903136	
GERMANY	DE_Alert_Zone	DE_BSH2	Red/Yellow/Green	Email	MASSMANN	SILVIA	silvia.massmann@bsh.de	+494031903136	
GERMANY	DE_Alert_Zone	DE_BSH2	Yellow	None	MASSMANN	SILVIA	silvia.massmann@bsh.de	+494031903136	
GERMANY	DE_Alert_Zone	DE_BSH3	Green	None	WASSERSTAND...	24-7	wdg@bsh.de	+494031903190	
GERMANY	DE_Alert_Zone	DE_BSH3	Red	None	WASSERSTAND...	24-7	wdg@bsh.de	+494031903190	
GERMANY	DE_Alert_Zone	DE_BSH3	Red/Yellow/Green	Email	WASSERSTAND...	24-7	wdg@bsh.de	+494031903190	







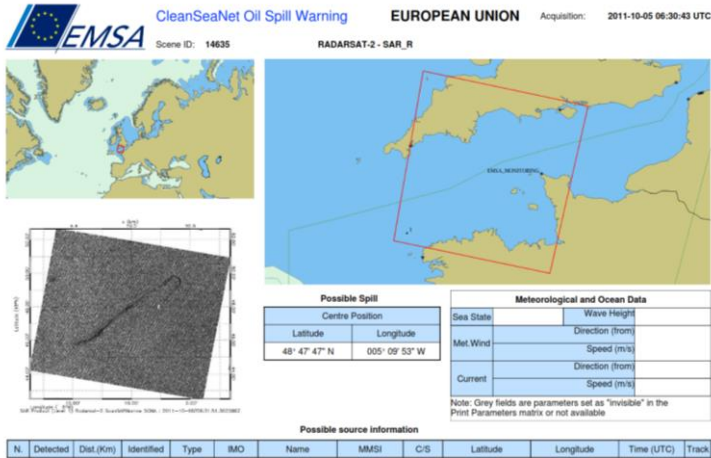
Oil Spill Warning - Examples



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Oil Spill Warning - Example

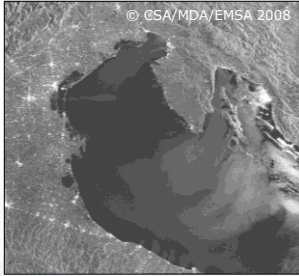
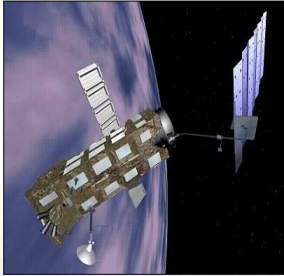


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**CleanSeaNet User portal:**  
**<http://cleanseanet.emsa.europa.eu>**



[satellite coordinators@emsa.europa.eu](mailto:satellite coordinators@emsa.europa.eu)