


European Maritime Safety Agency


CleanSeaNet Training

Alerting

1



CleanSeaNet SAFEMED Info Day - Lisbon - November 2013




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

2



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

3

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

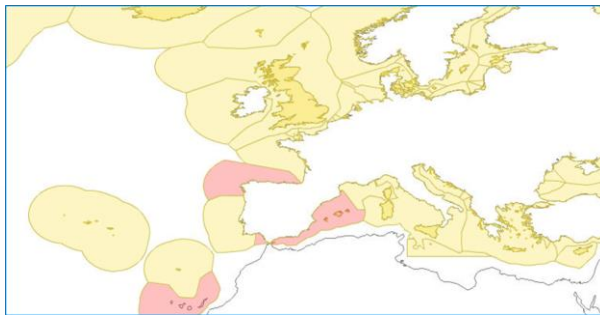
4

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

5

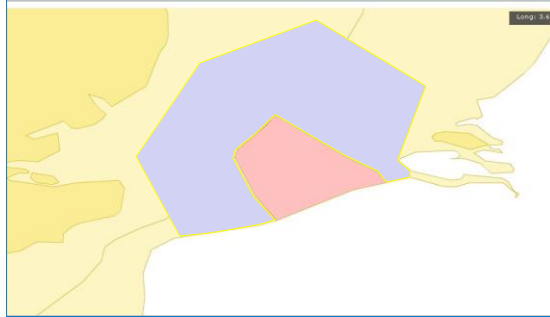
Alerting Principles – Alert Areas - Baseline



- 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

6

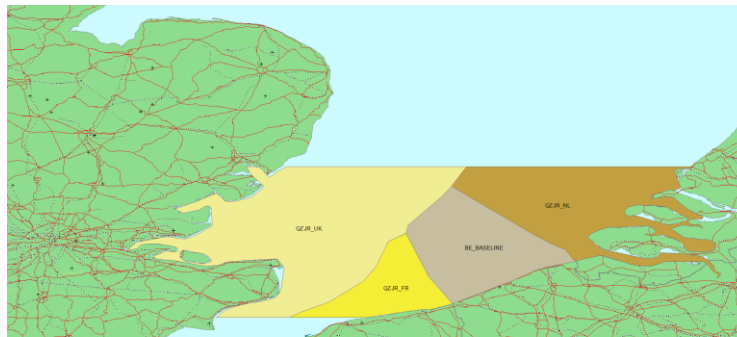
How to get alerts beyond the baseline



- 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...

7

How to get alerts beyond the baseline



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

8

How to deal with baseline sub areas



9

- 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

How to create Alert Areas

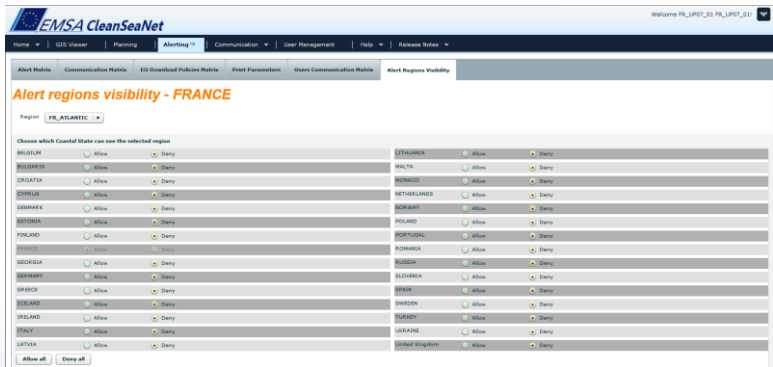
- Provided by Coastal States as shape files
- Uploaded by CSN Service Desk
- Configuration of Visibility by other Coastal States configured by the Coastal State itself



10



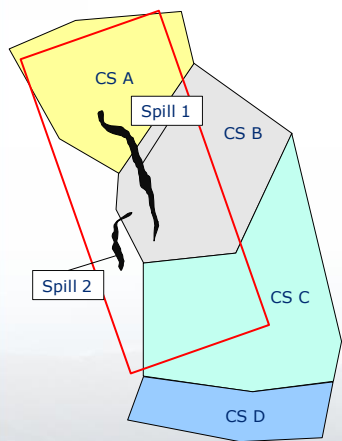
Managing Alert Areas



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

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

EMSA Maritime Support Services 247 - Tel: +351 21 1209 415 - Fax: +351 21 1209 480

[Mail: MaritimeSupportServices@emsa.europa.eu](mailto:MaritimeSupportServices@emsa.europa.eu)

Page 1 of 7



CleanSeaNet Notification

EUROPEAN UNION

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

Scene ID: 19997

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

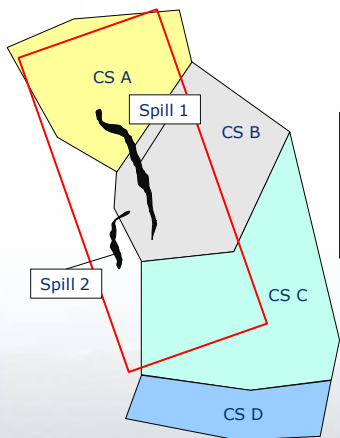
EMSA Maritime Support Services 247 - Tel: +351 21 1209 415 - Fax: +351 21 1209 480

[Mail: MaritimeSupportServices@emsa.europa.eu](mailto:MaritimeSupportServices@emsa.europa.eu)



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



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	1.469035	Green	N/A	Yes	No
2	OS_16203_2	35° 31' 11" N	012° 24' 39" E	29.30	37.16071	0.788332	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

EMSA Maritime Support Services 24/7 - Tel.: +351 21 1209 415 - Fax: +351 21 1209 480

[Mail: MaritimeSupportServices@emsa.europa.eu](mailto:MaritimeSupportServices@emsa.europa.eu)

Page 1 of 5



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

ENVISAT - 2011-12-02 09:18:17

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: 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
----	----------	-----------	------------	------	-----	------	------	-----	----------	-----------	------------	-------

EMSA Maritime Support Services 24/7 - Tel.: +351 21 1209 415 - Fax: +351 21 1209 480

Email: MaritimeSupportServices@emsa.europa.eu

Page 4 of 5

17



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

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' 39" E	29.30	37.16071	0.786332	Red	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

EMSA Maritime Support Services 24/7 - Tel.: +351 21 1209 415 - Fax: +351 21 1209 480


Email: MaritimeSupportServices@emsa.europa.eu

Page 1 of 3

18

Optimised zoom level for maps

ITALY Acquisition: 2011-12-02 09:18:31 UTC



Comments

ENVIAT - ASARWS


103

Spill # on map	Spill Identifier	Centre Position		Area (km²)	Length (km)	Width (km)	Alert	Oil Spill Planning Issued	Possible Source	
		Latitude	Longitude						Detected	Identified
1	OS_16201_1	39° 33' 58" N	012° 54' 22" E	12.81	8.718729	1.499005	Yes	N/A	Yes	No
2	OS_16201_2	39° 31' 11" N	012° 24' 38" E	29.30	37.16271	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

EMSA Maritime Support Services 24/7 - Tel: +351 21 1220 416 - Fax: +351 21 1220 480 NetInfoSupport@emsa.europa.eu Page 1 of 3

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



ENVIAT - ASARWS

103

Spill # on map	Spill Identifier	Centre Position		Area (km²)	Length (km)	Width (km)	Alert	Oil Spill Planning Issued	Possible Source	
		Latitude	Longitude						Detected	Identified
1	OS_16201_2	35° 31' 11" N	012° 24' 38" E	29.30	37.16271	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

EMSA Maritime Support Services 24/7 - Tel: +351 21 1220 416 - Fax: +351 21 1220 480 NetInfoSupport@emsa.europa.eu Page 1 of 3

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

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



21

Alert Level of Spills Reported - Impact

Tools to define Impact Alert Rules



22

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



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

23



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	RED	A	YELLOW	A	YELLOW
		B	YELLOW	B	YELLOW	B	YELLOW
	Low	A	YELLOW	A	GREEN	A	GREEN
		B	YELLOW	B	GREEN	B	GREEN

24

- 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



Comments

ENVIAT - ASARWS

Spill #	Spill Identifier	Centre Position	Area	Length	Width	Alert	Oil Spill	Possible Source	
on map		Latitude	Longitude	(km ²)	(km)	(km)	Warning	Detected	Identified
1	OS_16023_1	39° 33' 38" N	12° 24' 22" E	12.81	8.718728	1.438033	Green	Yes	No
2	OS_16023_2	39° 31' 17" N	12° 24' 38" E	29.35	37.16271	0.786332	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

Net Alert Report

ENVIAT - ASARWS

Spill #	Spill Identifier	Centre Position	Area	Length	Width	Alert	Oil Spill	Possible Source	
on map		Latitude	Longitude	(km ²)	(km)	(km)	Warning	Detected	Identified
1	OS_16023_1	39° 31' 17" N	12° 24' 38" E	29.35	37.16271	0.786332	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

Alert Level defined per Coastal State

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

Alert Level of Spills Reported

How to configure the Alert Matrix

Alert Matrix

Communication Matrix

Print Parameters

Alert Matrix - Netherlands

Culpert	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



Only operational representatives can configure the alert system



Alert configuration: the UK example

Alert Rules	Alert Matrix	EO Download Policies Matrix	Users & Roles	Users Communication Matrix	Alert Regions Visibility
Alert Matrix					
Coastal State: United Kingdom					
Use only the classification (Likelihood)					
Culprit	Impact	Likelihood	ALERT LEVEL		
High	High	A	<input checked="" type="radio"/> Red	<input type="radio"/> Yellow	<input type="radio"/> Green
High	High	B	<input type="radio"/> Red	<input type="radio"/> Yellow	<input checked="" type="radio"/> Green
High	Medium	A	<input checked="" type="radio"/> Red	<input type="radio"/> Yellow	<input type="radio"/> Green
High	Medium	B	<input type="radio"/> Red	<input type="radio"/> Yellow	<input checked="" type="radio"/> Green
High	Low	A	<input checked="" type="radio"/> Red	<input type="radio"/> Yellow	<input type="radio"/> Green
High	Low	B	<input type="radio"/> Red	<input type="radio"/> Yellow	<input checked="" type="radio"/> Green
Medium	High	A	<input checked="" type="radio"/> Red	<input type="radio"/> Yellow	<input type="radio"/> Green
Medium	High	B	<input type="radio"/> Red	<input type="radio"/> Yellow	<input checked="" type="radio"/> Green
Medium	Medium	A	<input checked="" type="radio"/> Red	<input type="radio"/> Yellow	<input type="radio"/> Green
Medium	Medium	B	<input type="radio"/> Red	<input type="radio"/> Yellow	<input checked="" type="radio"/> Green
Medium	Low	A	<input checked="" type="radio"/> Red	<input type="radio"/> Yellow	<input type="radio"/> Green
Medium	Low	B	<input type="radio"/> Red	<input type="radio"/> Yellow	<input checked="" type="radio"/> Green
Low	High	A	<input checked="" type="radio"/> Red	<input type="radio"/> Yellow	<input type="radio"/> Green
Low	High	B	<input type="radio"/> Red	<input type="radio"/> Yellow	<input checked="" type="radio"/> Green
Low	Medium	A	<input checked="" type="radio"/> Red	<input type="radio"/> Yellow	<input type="radio"/> Green
Low	Medium	B	<input type="radio"/> Red	<input type="radio"/> Yellow	<input checked="" type="radio"/> Green
Low	Low	A	<input checked="" type="radio"/> Red	<input type="radio"/> Yellow	<input type="radio"/> Green
Low	Low	B	<input type="radio"/> Red	<input type="radio"/> Yellow	<input checked="" type="radio"/> Green

27



Alert Configuration: the Belgian example

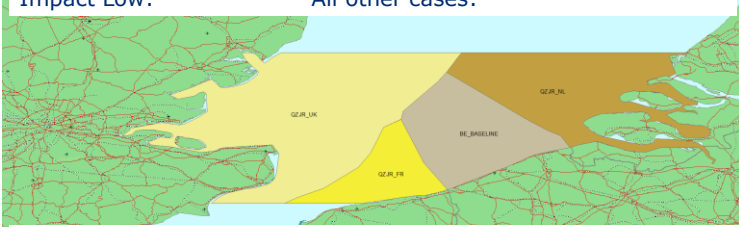
Quadrupartite Zone of Joint Responsibility: BE, FR, NL, UK

Same Impact and Culprit rules for the 4 areas:

Impact High: Possible spill > 1 km²

Impact Low: OR Distance to coastline < 12 nm

All other cases:



Culprit High

OR

OR

Possible source connected

Possible polluter identified

Track of possible source matches spill

Culprit Low:

All other cases

28



Alert configuration: the Belgian example

Alert RulesAlert MatrixEO Download Policies MatrixUsers & RolesUsers Communication MatrixAlert Regions Visibility

Alert Matrix

Coastal StateBELGIUM

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

30



Alert Report Content – Summary page

EMSA

CleanSeaNet Alert Report

SPAIN

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

Scene ID: 13977

ENVISAT - ASAR/WS

GIS Viewer

Comments

Map of Europe with Spain highlighted

Map of Spain showing the alert area

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	0.83	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

EMSA Maritime Support Services 24/7 - Tel: +351 21 1209 415 - Fax: +351 21 1209 480

Mail: MaritimeSupportServices@emsa.europa.eu

Page 1 of 7

31



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 SpillsGIS Viewer

Details of possible Spill n°1 - OS_13977_1

Centre Position		SAR Wind at Center		Area	Length	Width	Class	Alert Level	Number of slicks	Oilspill Warning Issued
Latitude	Longitude	Direction (From)	Speed (m/s)	(nm²)	(nm)	(nm)	(A/B)			
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
Max 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
----	----------	-----------	------------	------	-----	------	------	-----	----------	-----------	------------	-------

EMSA Maritime Support Services 24/7 - Tel: +351 21 1209 415 - Fax: +351 21 1209 480

Mail: MaritimeSupportServices@emas.europa.eu

Page 2 of 7



Alert Report Content – Spill Details page 2/2

CleanSeaNet Alert Report

SPAIN

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

Scene ID: 13977

ENVISAT - ASAR/WS

List of SpillsGIS 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 Culpit 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	Length	Width
	Latitude	Longitude	(nm²)	(nm)	(nm)
A	43.30190	-10.06871	0.9625310452	7.6435500	0.3965608
B	43.48050	-9.98330	0.1979454721	1.1568202	0.2488185
C	43.56197	-9.90990	0.1439302114	1.1964816	0.1627469


List of affected areas

Country	Zone	Impact	Culpit
Spain	ES_ATLANTIC	Low	Low
Spain	baseline	Low	Low

EMSA Maritime Support Services 24/7 - Tel: +351 21 1209 415 - Fax: +351 21 1209 480

Mail: MaritimeSupportServices@emas.europa.eu

Page 3 of 7



European Maritime Safety Agency

Alerting Matrix - Print Parameters

EMSA CleanSeaNet

Welcome FR_LP07_01 FR_LP07_01

Home

GIS Viewer

Planning

Alerting

Communication

User Management

Help

Release Notes

Alert Matrix

Communication Matrix

ED Download Policies Matrix

Print Parameters

Users Communication Matrix

Alert Region Visibility

Print Parameters - FRANCE

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

Context

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

Speed 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 ☒ Degree/minute


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

34



European Maritime Safety Agency

Alerting Matrix - Print Parameters

EMSA

CleanSeaNet Alert Report

FRANCE

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

Scene ID: 14378

ENVISAT - ASAR-WS


List of Spills

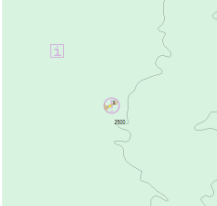
GIS Viewer

Details of possible Spill n°1 - OS_14378_4

Centre Position		SAR Wind at Center		Area	Length	Width	Class	Alert Level	Number of slicks	Oilspill Warning Issued
Latitude	Longitude	Direction (From)	Speed (m/s)	(km²)	(km)	(km)	(A/B)			
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


EMSA Maritime Support Services 24/7 - Tel.: +351 21 1209 415 - Fax: +351 21 1209 480

Mail: MaritimeSupportServices@emsa.europa.eu

Page 2 of 3

35

Alerting Matrix - Print Parameters

 CleanSeaNet Alert Report **FRANCE** Acquisition: 2011-10-05 09:43:14 UTC

Scene ID: 14378 ENVISAT - ASARWS [List of Spills](#) [GIS Viewer](#)

Additional Information

Sensitive Areas	Shoreline	Distance (km) to TSS/Shipping Lanes	Rigs/Offshore	Known Wrecks	Traffic Density
1268.7	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)
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

36

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 "

EMSA Maritime Support Services 24/7 - Tel: +351 21 1209 410 - Fax: +351 21 1209 480

Mail: MaritimeSupportServices@emsa.europa.eu

Page 3 of 3

Phone alert

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

From: CleanSeaNet DC Sent: Sun 16/09/2012 07:42
To: Maritime Support Services (EMSA)
Cc:
Subject: EMSA CleanSeaNet Alert - 23944 - 2012-09-16 06:12:59 UTC - Phone call to SPAIN/ES_MEDITERRANEAN

Message: [CSN_report_SPAIN_23944.pdf](#)

Phone call to be made to **SPAIN** Alert Area **ES_MEDITERRANEAN**

Primary Phone Number: **SASEMAR** +34 963679302

Secondary phone Number: **SASEMAR** +34 963679302

This is [MSSO name] calling from EMSA. This phone call is to inform you that 4 possible oil spill(s) have been detected in the alert area ES_MEDITERRANEAN of SPAIN: 4 possible spill(s) with a Red Alert Level, 0 possible spill(s) with a Yellow Alert Level, and 0 possible spill(s) with a green alert level. To see the details of the service, please access the GIS Viewer of the CleanSeaNet portal. You should also have received a report by email with the results.

The CleanSeaNet team

Alert Report
Coastal State
Alert Area
Phone Numbers
Institution/
Organisation
Text to be transmitted by phone

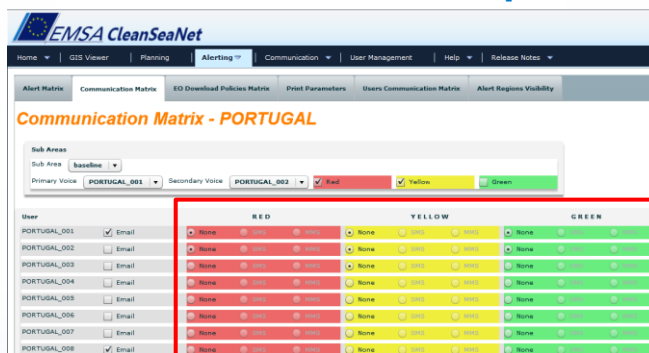
37

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

38

Communication Matrix Example



Not in place

39

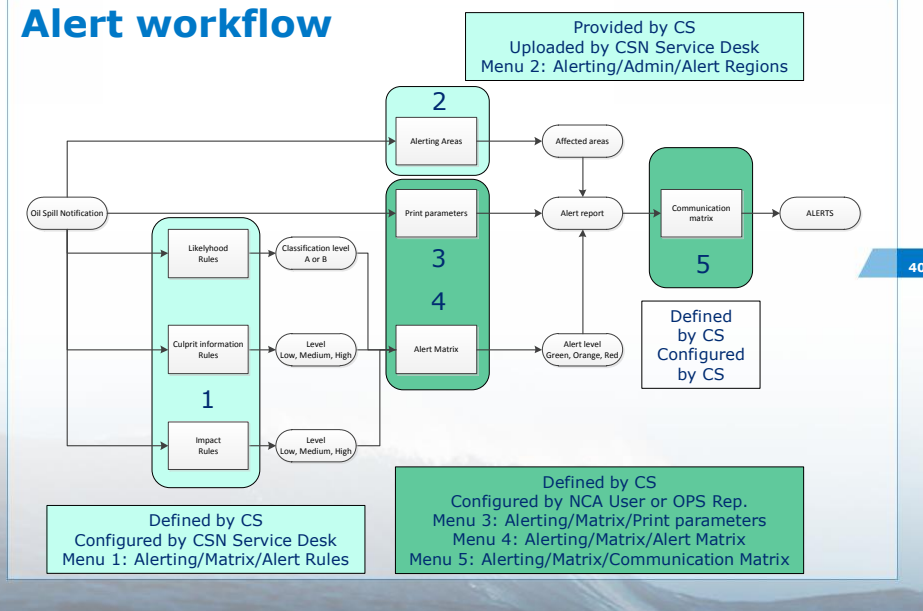
If a spill affects Portugal baseline, the user Portugal_001 will:

- 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

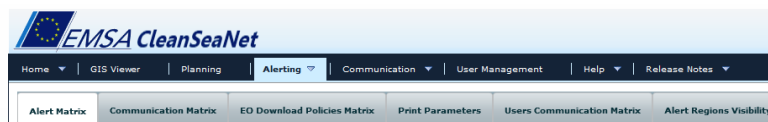
Alert workflow



40

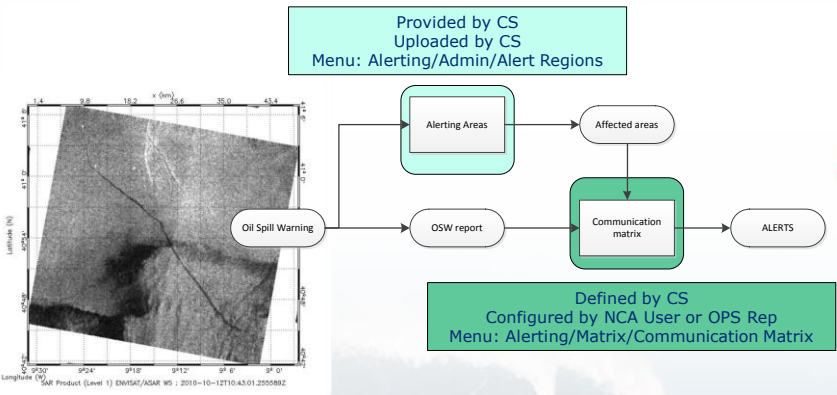
Alerting menu

- Available only to Operational representatives (UP07)
- Used to configure the Alerting system for all areas in the country



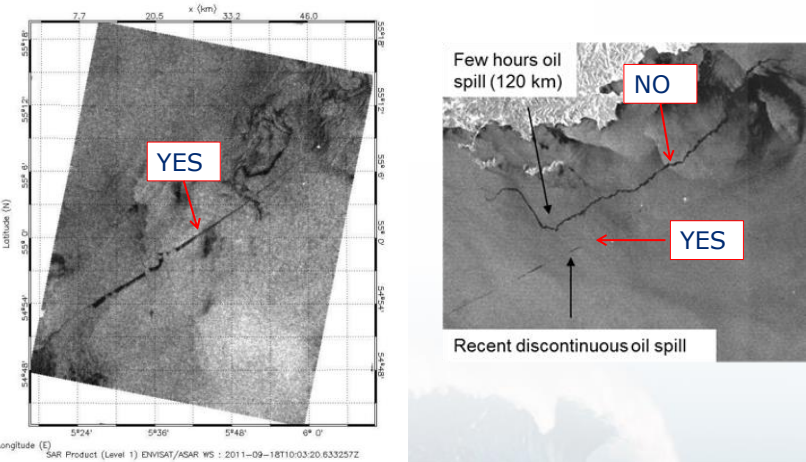
41

Oil Spill Warning - Alert workflow



42


Oil Spill Warning - Examples



43



Oil Spill Warning - Example




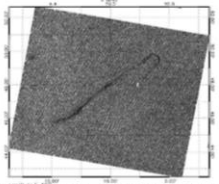

CleanSeaNet Oil Spill Warning

EUROPEAN UNION

Acquisition: 2011-10-05 06:30:43 UTC

Scene ID: 14635

RADARSAT-2 - SAR_R



Possible Spill

Centre Position	
Latitude	Longitude
48° 47' 47" N	005° 09' 53" W

Meteorological and Ocean Data

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

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

Possible source information

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

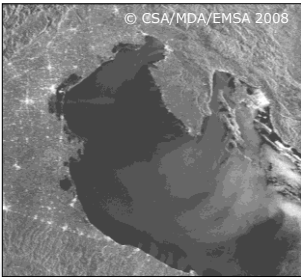
EMSA Maritime Support Services 24/7 - Tel.: +351 21 1209 415 - Fax: +351 21 1209 480

Mail: MaritimeSupportServices@emsa.europa.eu

Page 1 of 1



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



satellite coordinators@emsa.europa.eu