

European Maritime Safety Agency


## CleanSeaNet Training

### Feedback

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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

- Why should users provide feedback
- Different types of feedback
- How to provide feedback
- How to search for feedback

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## Why should the users provide feedback?

By signing the conditions of use, CS accept to:

- “ensure follow-up on CleanSeaNet detections and verify spills as extensively as possible”
- “provide information regarding verification of possible oil spills reported by CleanSeaNet”
- “provide information on spills that were not reported”
- “inform EMSA on a best effort basis of any enforcement measures taken by a coastal State or a port State against potential polluters detected and identified using the CleanSeaNet service”

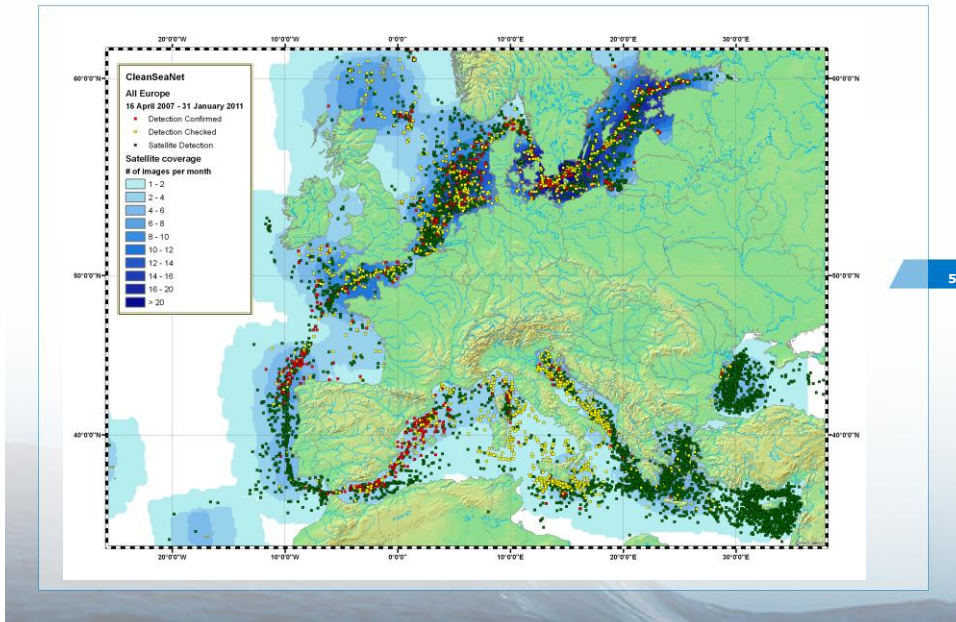
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## Why should the users provide feedback?

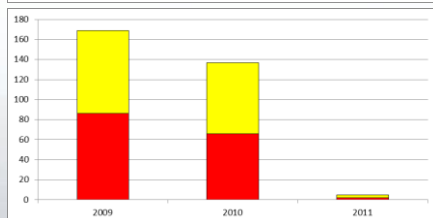
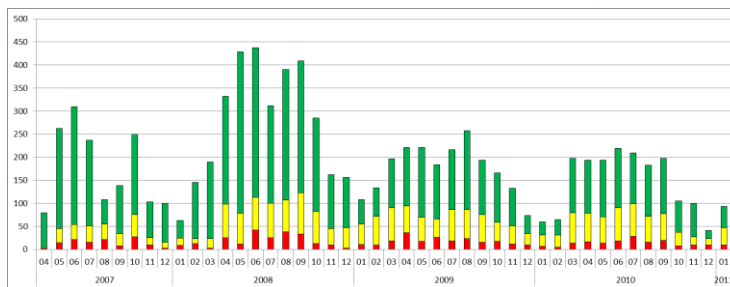
Feedback is important as it helps to:

- Validate the service in terms of delivery time, false positive, false negative (=missed spills)
- Build reliable statistics
- improve the effectiveness of the operational system by:
  - reducing the false positive/negative rate
  - improving the confidence information (reliability)

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## Key factors - Time and mean of observation



Rate of confirmation

- All 26%
- Aircraft < 3 hours 50%

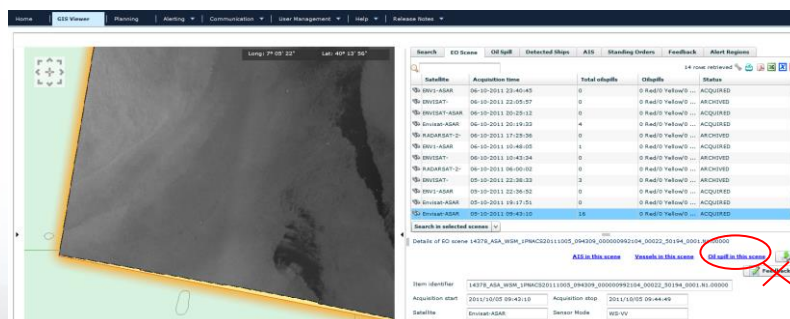
## Different types of feedback

- Feedback on possible spills reported by CleanSeaNet:
  - Verification results -> via GIS viewer (**CASE 1**)
  - Enforcement -> via GIS viewer (**CASE 1**)
- Feedback on spills not reported by CleanSeaNet
  - Same area and time than CleanSeaNet image -> via GIS Viewer (false negative but not only) (**CASE 2**)
  - Any area – any time (Not yet implemented)

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## Case 1 - Feedback on spills reported by CleanSeaNet

### Access to feedback via the "EO Scene" tab

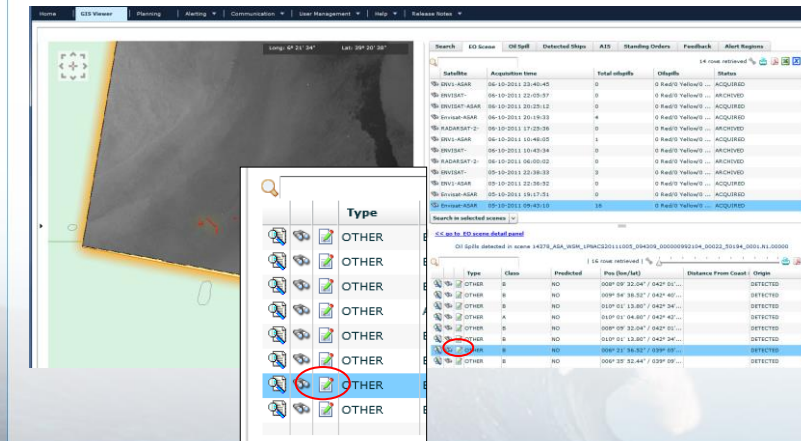


| Satellite    | Acquisition time    | Total volume | Offsets              | Status   |
|--------------|---------------------|--------------|----------------------|----------|
| ENVISAT-ASAR | 06-10-2011 23:40:43 | 0            | 0 Rad(0 Yellow(0 ... | ACQUIRED |
| ENVISAT-1    | 06-10-2011 22:08:57 | 0            | 0 Rad(0 Yellow(0 ... | ARCHIVED |
| ENVISAT-ASAR | 06-10-2011 20:28:12 | 0            | 0 Rad(0 Yellow(0 ... | ACQUIRED |
| ENVISAT-ASAR | 06-10-2011 20:19:32 | 4            | 0 Rad(0 Yellow(0 ... | ACQUIRED |
| ENVISAT-1    | 06-10-2011 17:29:06 | 0            | 0 Rad(0 Yellow(0 ... | ARCHIVED |
| ENVISAT-ASAR | 06-10-2011 16:48:08 | 1            | 0 Rad(0 Yellow(0 ... | ACQUIRED |
| ENVISAT-1    | 06-10-2011 16:42:34 | 0            | 0 Rad(0 Yellow(0 ... | ARCHIVED |
| ENVISAT-1    | 06-10-2011 16:00:02 | 0            | 0 Rad(0 Yellow(0 ... | ARCHIVED |
| ENVISAT-1    | 06-10-2011 22:38:32 | 0            | 0 Rad(0 Yellow(0 ... | ARCHIVED |
| ENVISAT-ASAR | 06-10-2011 19:17:51 | 0            | 0 Rad(0 Yellow(0 ... | ACQUIRED |
| ENVISAT-ASAR | 06-10-2011 19:49:05 | 18           | 0 Rad(0 Yellow(0 ... | ACQUIRED |

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## Case 1 - Feedback on spills reported by CleanSeaNet

### Access to feedback via the "EO Scene" tab

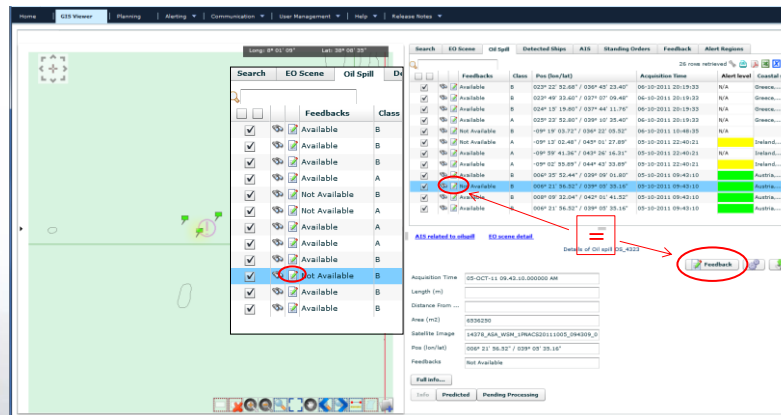


The screenshot shows the EMSA CleanSeaNet interface. The 'EO Scene' tab is selected. The map on the left shows a satellite image of a ship. The table on the right lists detected ships with columns for 'ShipName', 'Acquisition time', 'Total ship(s)', 'Offships', and 'Status'. A red circle highlights the 'Feedback' button in the bottom right corner of the interface.

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## Case 1 - Feedback on spills reported by CleanSeaNet



### Access to feedback via the "Oil Spill" tab

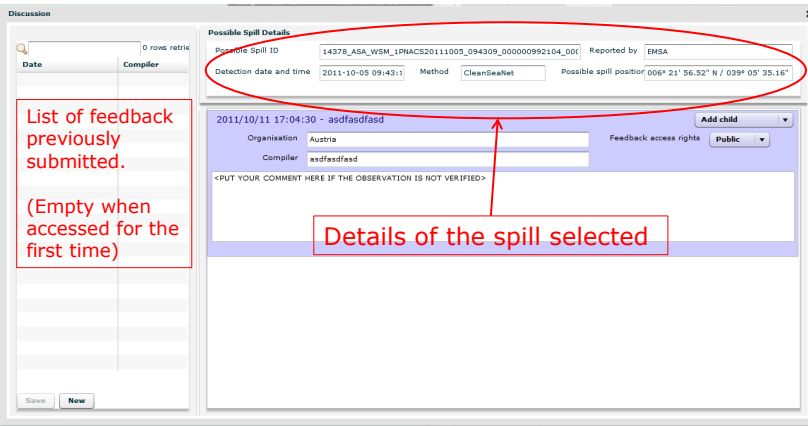


The screenshot shows the EMSA CleanSeaNet interface. The 'Oil Spill' tab is selected. The map on the left shows a satellite image of a ship. The table on the right lists detected oil spills with columns for 'Feedbacks', 'Class', 'Pos (lon/lat)', 'Acquisition Time', 'Alert level', and 'Created at'. A red circle highlights the 'Feedback' button in the bottom right corner of the interface.

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### Case 1 - Feedback on spills reported by CleanSeaNet

By clicking on any of the feedback buttons from the "EO Scene" tab or from the "Oil Spill" tab   the same feedback form will appear.



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### Case 1 - Feedback on spills reported by CleanSeaNet

It is possible to **create** new feedback or to **edit** an existing one

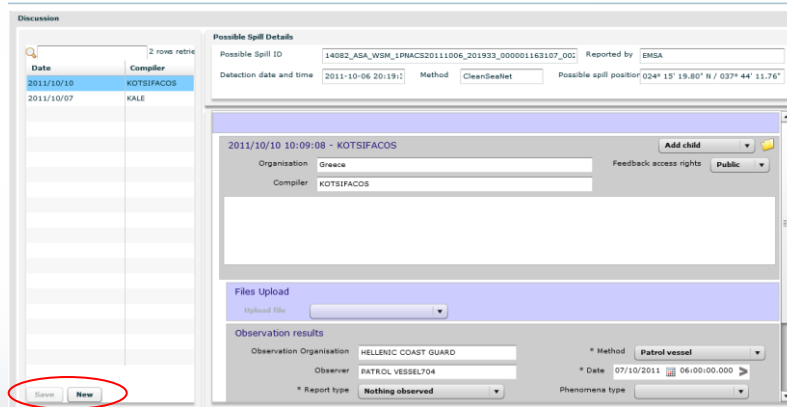
**IMPORTANT:** Do not create a new feedback to correct or complete a pre-existing feedback.

Feedback should be submitted to report:

- That the spill was **not checked**
- the **results of an observation** on site
- a **possible source** identified by the end user
- **Confirm a possible source** previously reported / **indicate follow-up** (use EDIT mode only)
- **Upload a file** (only possible if a feedback already exists)

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### Case 1 - Feedback on spills reported by CleanSeaNet

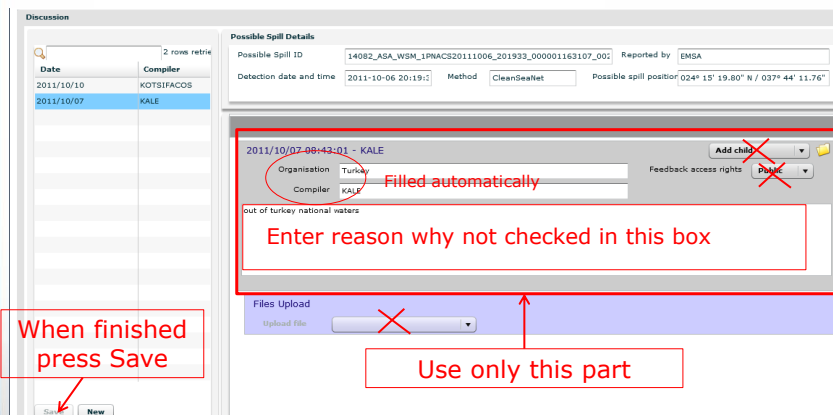


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To submit a new feedback, press "New", fill the form and press "Save"  
To edit an existing feedback, select it from the list, edit the form and press "Save"

### Case 1 - Feedback on spills reported by CleanSeaNet

#### Feedback to report that the spill was **not checked**



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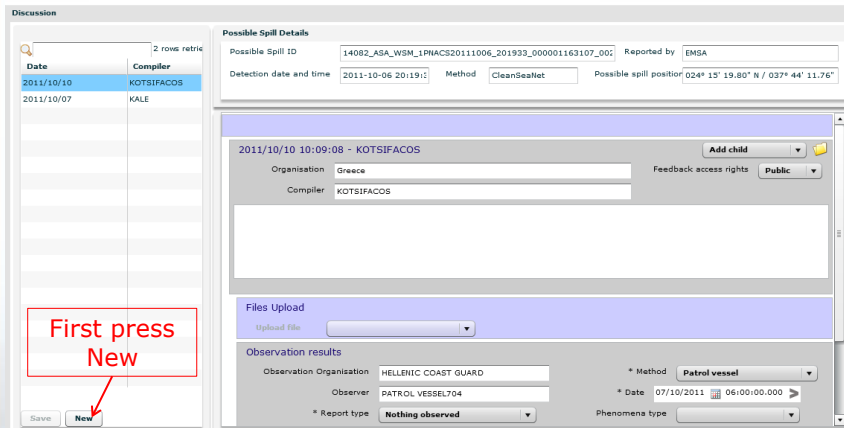
When finished  
press Save

Use only this part



## Case 1 - Feedback on spills reported by CleanSeaNet

Feedback to report the **results of an observation** on site



**Discussion**

| Date       | Compiler   |
|------------|------------|
| 2011/10/10 | KOTSIFACOS |
| 2011/10/07 | KALE       |

2 rows retrieved

Save New

**Possible Spill Details**

Possible Spill ID: 14082\_ASA\_WSM\_IPNACS20111006\_201933\_000001163107\_00; Reported by: EMSA

Detection date and time: 2011-10-06 20:19:12 Method: CleanSeaNet Possible spill position: 024° 15' 19.80" N / 037° 44' 11.76"

**2011/10/10 10:09:08 - KOTSIFACOS**

Organisation: Greece Feedback access rights: Public

Compiler: KOTSIFACOS

**Files Upload**

Upload file: [ ]

**Observation results**

Observation Organisation: HELLENIC COAST GUARD \* Method: Patrol vessel

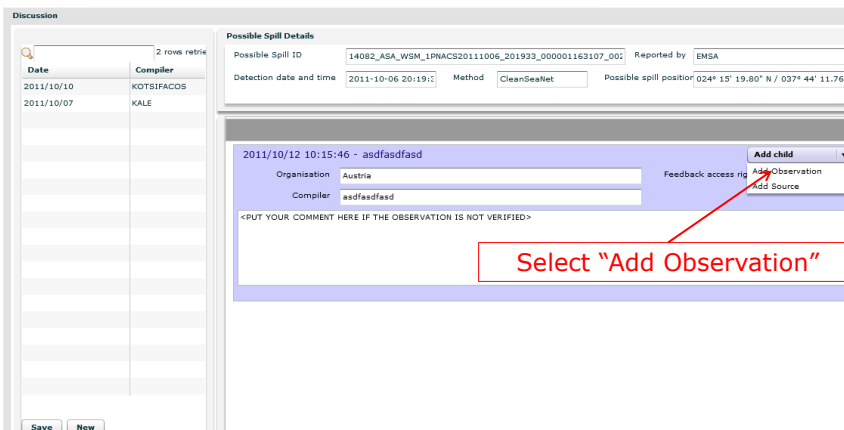
Observer: PATROL VESSEL704 \* Date: 07/10/2011 06:00:00.000

\* Report type: Nothing observed Phenomena type: [ ]

**Note:** before pressing "New" the last feedback submitted is always displayed

## Case 1 - Feedback on spills reported by CleanSeaNet

Feedback to report the **results of an observation** on site



**Discussion**

| Date       | Compiler   |
|------------|------------|
| 2011/10/10 | KOTSIFACOS |
| 2011/10/07 | KALE       |

2 rows retrieved

Save New

**Possible Spill Details**

Possible Spill ID: 14082\_ASA\_WSM\_IPNACS20111006\_201933\_000001163107\_00; Reported by: EMSA

Detection date and time: 2011-10-06 20:19:12 Method: CleanSeaNet Possible spill position: 024° 15' 19.80" N / 037° 44' 11.76"

**2011/10/12 10:15:46 - asdfasdfasd**

Organisation: Austria Feedback access rights: Add Observation Add Source

Compiler: asdfasdfasd

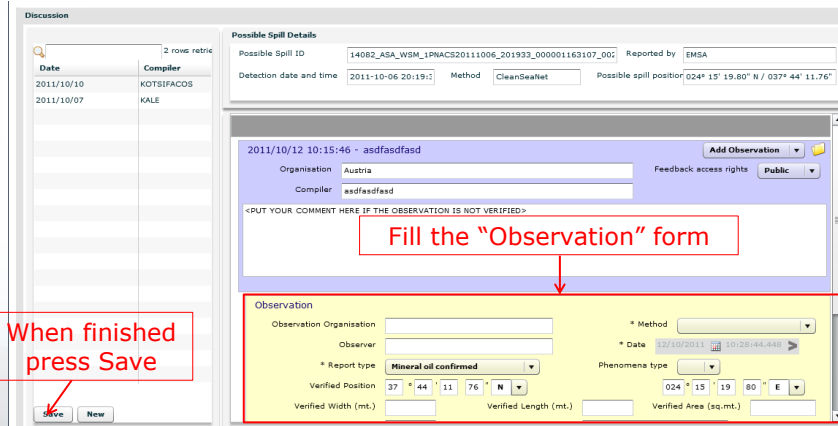
<PUT YOUR COMMENT HERE IF THE OBSERVATION IS NOT VERIFIED>

Select "Add Observation"



## Case 1 - Feedback on spills reported by CleanSeaNet

Feedback to report the **results of an observation** on site



Discussion

Possible Spill Details

Possible Spill ID: 14082\_ASA\_WSM\_IPNACS20111006\_201932\_000001163107\_002 Reported by: EMSA

Detection date and time: 2011-10-06 20:19:02 Method: CleanSeaNet Possible spill position: 024° 15' 19.80" N / 037° 44' 11.76" E

2011/10/12 10:15:46 - asdfasfadsd

Organisation: Austria Compiler: asdfasfadsd Feedback access rights: Public

<PUT YOUR COMMENT HERE IF THE OBSERVATION IS NOT VERIFIED>

Fill the "Observation" form

When finished press Save

Observation

Observation Organisation: Observer: \* Method: \* Date: 12/10/2011 10:28:44:448

\* Report type: Mineral oil confirmed Phenomena type: 024° 15' 19.80" N / 037° 44' 11.76" E

Verified Position: 37° 44' 11.76" N 024° 15' 19.80" E

Verified Width (mt.): Verified Length (mt.): Verified Area (sq.mt.):

Verified Thickness: Thickness estimation method: BAOAC

Verified volume: Additional Information: <PUT YOUR COMMENT HERE>

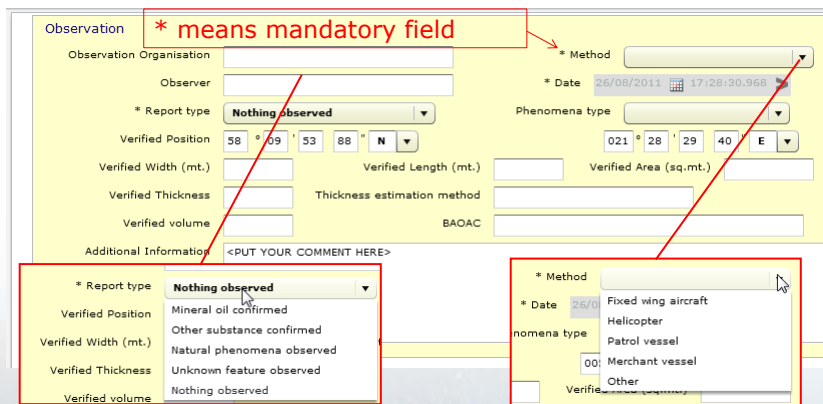
Save New

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## Case 1 - Feedback on spills reported by CleanSeaNet

Feedback to report the **results of an observation** on site

Observation form details



Observation \* means mandatory field

Observation Organisation: Observer: \* Method: \* Date: 26/08/2011 17:28:30.968

\* Report type: Nothing observed Phenomena type: 021° 28' 29.40" E

Verified Position: 58° 09' 53.88" N 021° 28' 29.40" E

Verified Width (mt.): Verified Length (mt.): Verified Area (sq.mt.):

Verified Thickness: Thickness estimation method: BAOAC

Verified volume: Additional Information: <PUT YOUR COMMENT HERE>

\* Report type: Nothing observed

Verified Position: Mineral oil confirmed

Verified Width (mt.): Other substance confirmed

Verified Thickness: Natural phenomena observed

Verified volume: Unknown feature observed

Nothing observed

\* Method: Fixed wing aircraft

\* Date: 26/08/2011

Phenomena type: Helicopter

Patrol vessel

Merchant vessel

Other

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Note: Fields in the "Observation" form are identical to CSN V1

## Case 1 - Feedback on spills reported by CleanSeaNet

Feedback to report a **possible source** identified by the end user

Discussion

2 rows retrieved

| Date       | Compiler   |
|------------|------------|
| 2011/10/10 | KOTSIFACOS |
| 2011/10/07 | KALE       |

Save New

Possible Spill Details

Possible Spill ID: 14082\_ASA\_WSM\_1PNACS20111006\_201933\_000001163107\_00; Reported by: EMSA

Detection date and time: 2011-10-06 20:19:12 Method: CleanSeaNet Possible spill position: 024° 15' 19.80" N / 037° 44' 11.76"

2011/10/12 10:15:46 - asdfasdfasd

Organisation: Austria Feedback access rights: Add child Add Observation Add Source

Compiler: asdfasdfasd

<PUT YOUR COMMENT HERE IF THE OBSERVATION IS NOT VERIFIED>

Select "Add Source"

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## Case 1 - Feedback on spills reported by CleanSeaNet

Feedback to report a **possible source** identified by the end user

Discussion

2 rows retrieved

| Date       | Compiler   |
|------------|------------|
| 2011/10/10 | KOTSIFACOS |
| 2011/10/07 | KALE       |

Save New

Possible Spill Details

Possible Spill ID: 14082\_ASA\_WSM\_1PNACS20111006\_201933\_000001163107\_00; Reported by: EMSA

Detection date and time: 2011-10-06 20:19:12 Method: CleanSeaNet Possible spill position: 024° 15' 19.80" N / 037° 44' 11.76"

2011/10/12 10:48:34 - asdfasdfasd

Organisation: Austria Feedback access rights: Public

Compiler: asdfasdfasd

<PUT YOUR COMMENT HERE IF THE OBSERVATION IS NOT VERIFIED>

Fill the "Source" form

New Possible Source

| Type | Connected | Aligned | Name | IMO# | MMSI | Confirmed | Inspected | Follow-up description |
|------|-----------|---------|------|------|------|-----------|-----------|-----------------------|
|      |           |         |      |      |      | No        | No        |                       |

When finished press Save

Save New

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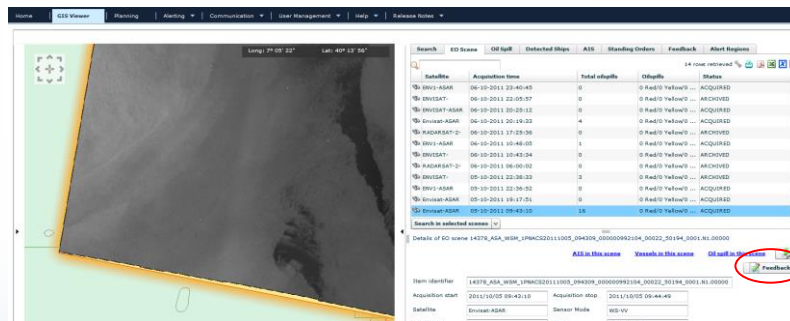
### Case 1 - Feedback on spills reported by CleanSeaNet

Feedback to **Confirm a possible source** previously reported / **indicate follow-up** (EDIT mode only)

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### Case 2 - Feedback on spills not reported by CleanSeaNet

Access to feedback via the "EO Scene" tab only



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## Case 2 - Feedback on spills not reported by CleanSeaNet

Clicking on the feedback button from the "EO Scene" tab will display the feedback form



Discussion

0 rows retrieved

Possible Spill Details

Possible Spill ID: E\_1PACLS20111005\_023833\_000002200000\_00000\_00202\_4013 Reported by: EMSA

Detection date and time: 2011/10/12 13:04:31 Method: CleanSeaNet Possible spill position: 047° 34' 27.04" N / 012° 23' 29.00" E

2011/10/12 13:04:31 - Austria

Organisation: Austria Feedback access rights: Public

Compiler: Austria

<PUT YOUR COMMENT HERE IF THE OBSERVATION IS NOT VERIFIED>

Save New

Not the "Possible Spill ID" as wrongly indicated but the "Scene ID"

Not the "Possible Spill position" as wrongly indicated but the "Scene centre position"

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## Feedback Search in the GIS viewer

Only works on feedback containing "Observations"  
Does not provide results on "Not Checked"

EMSA CleanSeaNet

Home EO Viewer Communication Help Release Notes

Select Feedback

Select area or Enter coordinates of area of Observation

Select time window of Observation

Search EO Scenes EO Spill Detected Objects AIS Standing Orders Feedback Alert Regions

Map List

Min List

Max List

Response Time

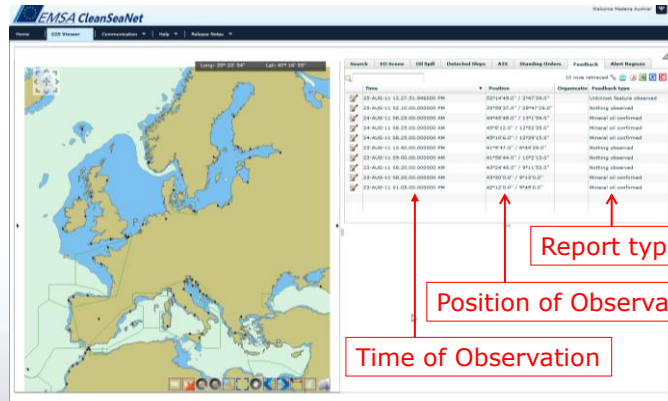
17-01-11 17:01:11 to 28/06/2011 10:30:00

Search Stop Search Order

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## Feedback Search in the GIS viewer

### List of Results in Feedback Tab



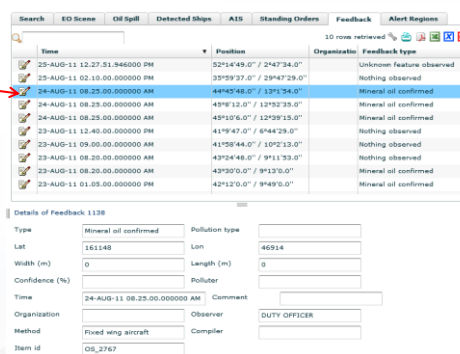
| Time                         | Position                  | Organization             | Feedback type         |
|------------------------------|---------------------------|--------------------------|-----------------------|
| 25-AUG-11 12:07:51.946000 PM | 52°14'49.0" / 2°47'34.0"  | Unknown feature observed | Nothing observed      |
| 25-AUG-11 02:10:00.000000 PM | 39°29'37.0" / 29°47'29.0" | Nothing observed         | Nothing observed      |
| 24-AUG-11 08:25:00.000000 AM | 43°02'46.0" / 1°51'24.0"  | Mineral oil confirmed    | Mineral oil confirmed |
| 24-AUG-11 08:25:00.000000 AM | 43°12'0.0" / 1°52'35.0"   | Mineral oil confirmed    | Mineral oil confirmed |
| 24-AUG-11 08:25:00.000000 AM | 43°12'0.0" / 1°52'35.0"   | Mineral oil confirmed    | Mineral oil confirmed |
| 24-AUG-11 12:40:00.000000 PM | 41°59'47.0" / 6°44'29.0"  | Nothing observed         | Nothing observed      |
| 23-AUG-11 09:00:00.000000 AM | 41°58'44.0" / 10°12'33.0" | Nothing observed         | Nothing observed      |
| 23-AUG-11 08:30:00.000000 AM | 43°12'48.0" / 9°11'33.0"  | Nothing observed         | Nothing observed      |
| 23-AUG-11 08:20:00.000000 AM | 43°10'0.0" / 9°11'33.0"   | Mineral oil confirmed    | Mineral oil confirmed |
| 23-AUG-11 01:05:00.000000 PM | 43°12'0.0" / 9°49'0.0"    | Mineral oil confirmed    | Mineral oil confirmed |

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## Feedback Search in the GIS viewer

### Select row to see feedback details

Click on the button to open the feedback form



| Time                         | Position                  | Organization             | Feedback type         |
|------------------------------|---------------------------|--------------------------|-----------------------|
| 25-AUG-11 12:27:51.946000 PM | 52°14'49.0" / 2°47'34.0"  | Unknown feature observed | Nothing observed      |
| 25-AUG-11 02:10:00.000000 PM | 39°29'37.0" / 29°47'29.0" | Nothing observed         | Nothing observed      |
| 24-AUG-11 08:25:00.000000 AM | 43°02'46.0" / 1°51'24.0"  | Mineral oil confirmed    | Mineral oil confirmed |
| 24-AUG-11 08:25:00.000000 AM | 43°12'0.0" / 1°52'35.0"   | Mineral oil confirmed    | Mineral oil confirmed |
| 24-AUG-11 08:25:00.000000 AM | 43°12'0.0" / 1°52'35.0"   | Mineral oil confirmed    | Mineral oil confirmed |
| 24-AUG-11 12:40:00.000000 PM | 41°59'47.0" / 6°44'29.0"  | Nothing observed         | Nothing observed      |
| 23-AUG-11 09:00:00.000000 AM | 41°58'44.0" / 10°12'33.0" | Nothing observed         | Nothing observed      |
| 23-AUG-11 08:30:00.000000 AM | 43°12'48.0" / 9°11'33.0"  | Nothing observed         | Nothing observed      |
| 23-AUG-11 08:20:00.000000 AM | 43°10'0.0" / 9°11'33.0"   | Mineral oil confirmed    | Mineral oil confirmed |
| 23-AUG-11 01:05:00.000000 PM | 43°12'0.0" / 9°49'0.0"    | Mineral oil confirmed    | Mineral oil confirmed |

Details of Feedback 1138

Type: Mineral oil confirmed

Lat: 52°14'49.0"

Width (m): 0

Confidence (%): 0

Time: 24-AUG-11 08:25:00.000000 AM

Organization: Observer: DUTY OFFICER

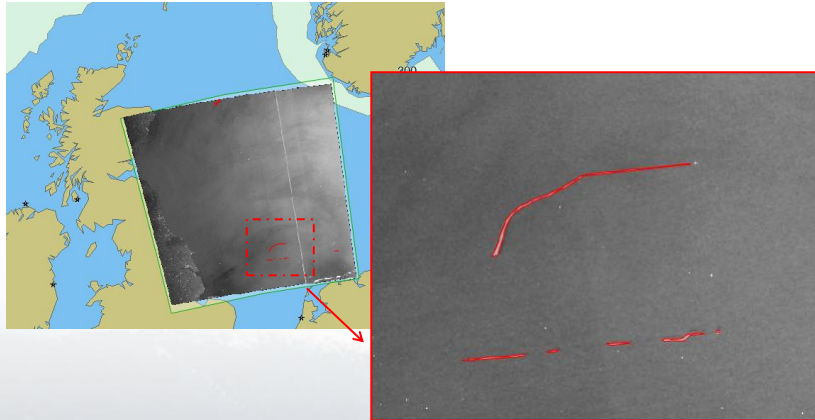
Method: Fixed wing aircraft

Item id: OS\_2767

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If the feedback is attached to a spill, full feedback information for that spill will be presented when opening the feedback form. It means that all feedback submitted for that spill will be listed.

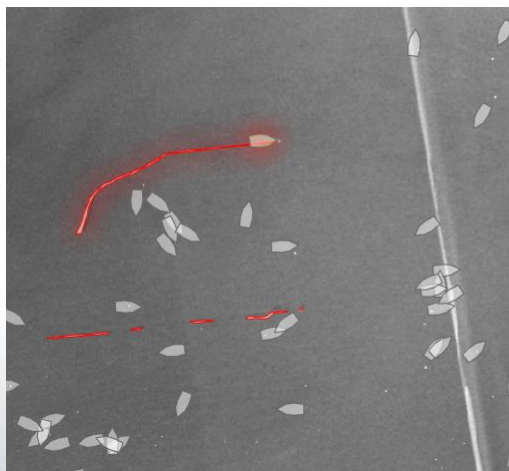
## Feedback Examples in GISViewer



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RADARSAT-1 2012-10-22 17:32:16 UTC – Class A potential spill detected scene ID 123591









## Feedback Examples in GISViewer



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Search in selected scenes

[<< go to EO scene detail panel](#)

|   | MMSI      | IMO     | Name            |   |
|---|-----------|---------|-----------------|---|
|  | 538004282 | 9466... | INTREPID CANADA |   |
|  | 311558000 | 8757... | COSL RIVAL      |   |
|  | 244730824 |         | unknown         | u |
|  | 244779000 |         | unknown         | u |
|  | 259989000 | 9592... | NORMAND ARCTIC  |   |
|  | 636014431 |         |                 |   |
|  | 246396000 | 9288... | SAMPOGRACHT     |   |
|  | 233638000 |         | unknown         | u |

| 1410 rc

## Feedback Examples in GISViewer



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## Feedback Examples in GISViewer

2012/10/24 12:09:54 - Kientz Add child

Organisation:  Feedback access rights:

Compiler:

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**Observation results**

Observation Organisation:  \* Method:

Observer:

\* Report type:  \* Date:

Phenomena type:

Verified Position:

Verified Width (mt.):  Verified Length (mt.):  Verified Area (sq.mt.):

Verified Thickness:  Thickness estimation method:

Verified volume:  BAOAC:

Additional Information:

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## Feedback Examples in GISViewer

2012/11/05 20:03:54 - Costerus

Organisation:  Feedback access rights:

Compiler:

Files Upload

Upload file:

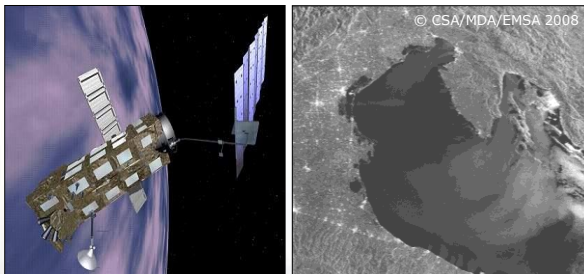
New Possible Source

| Type                                | Connected                        | Aligned                          | Name            | IMO#    | MMSI | Confirmed                        | Inspected                        | Follow-up description    |
|-------------------------------------|----------------------------------|----------------------------------|-----------------|---------|------|----------------------------------|----------------------------------|--------------------------|
| <input type="text" value="Vessel"/> | <input type="text" value="Yes"/> | <input type="text" value="Yes"/> | Interpid Canadi | 9466740 | 0    | <input type="text" value="Yes"/> | <input type="text" value="Yes"/> | tankwash according to Ma |

Vessel has been inspected and investigated in Rotterdam on 27 October 2012. Discharge of washing containing palmoil were carried out in accordance with Marpol Annex II regulations.

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



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

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