



Maritime &
Coastguard
Agency

Integrated Maritime Data Environment (IMDatE)

Operational experience of the United Kingdom

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Lisbon

Wednesday 7th May 2014



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UK IMDatE Users

- 19 Active users across 4 MCA departments
SAR Counter Pollution, Enforcement and Security.
- 2 users in other government departments –
 - a) National Maritime Information Centre
 - b) Marine Management Organisation (MMO)



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UK IMDatE User Quotes

- *“IMDate continues to be a very useful tool and is the first that is called upon in the event of a suspect slick reported by CSN”*
- *“I would loath to lose it”*
- *The AIS vessel tracking is a boon in its own right”*
- *“It is particularly useful as it is easily accessible from any internet enabled computer”*

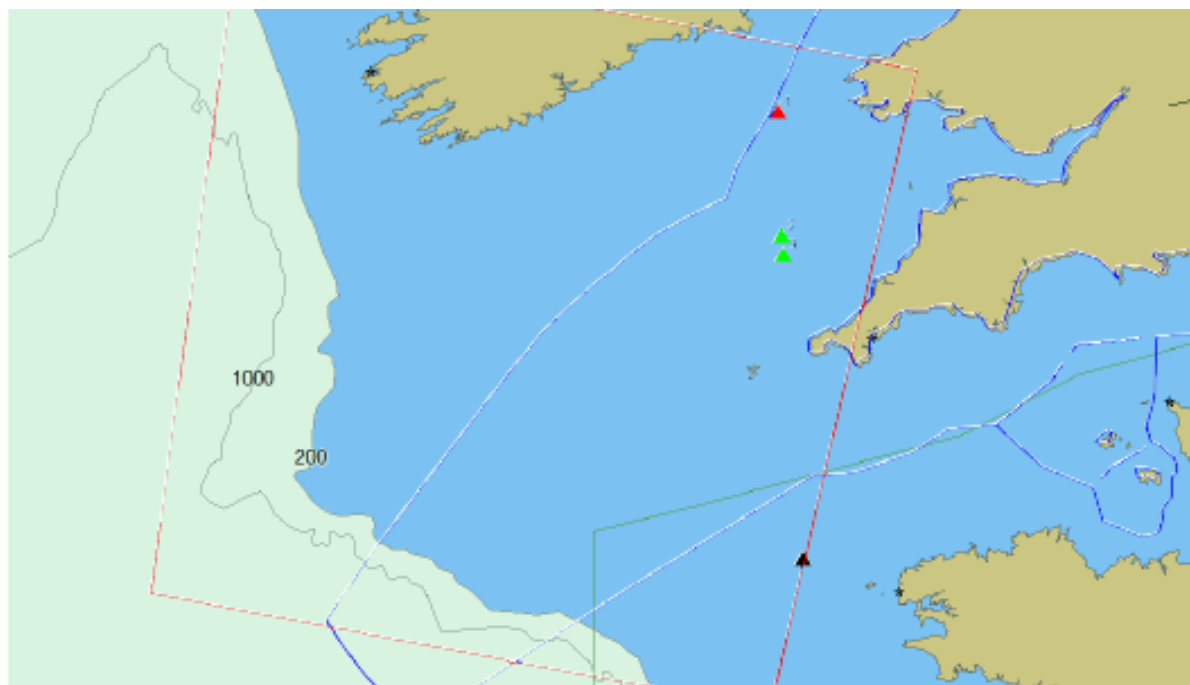


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CleanSeaNet Alert Report 1

Received 24/04/2014 06:47 UTC Scene ID: 132402

The triangles denote position of spills.

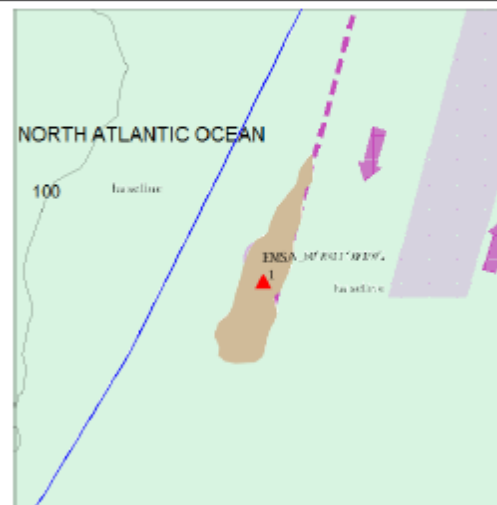
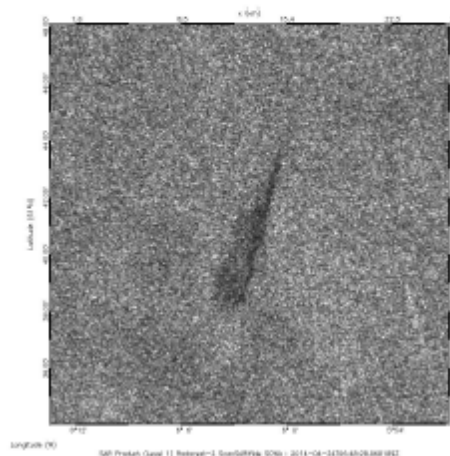




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Spill 1

Centre Position		SAR Wind at Center		Area (nm ²)	Length (nm)
Latitude	Longitude	Direction (From)	Speed (m/s)		
51° 40' 49" N	006° 01' 49" W	343.00	3.30	5.45	6.30



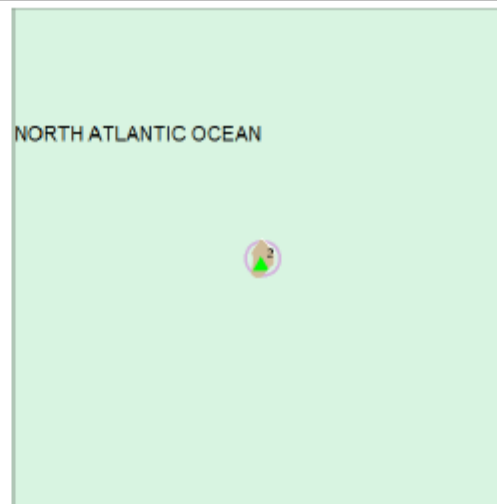
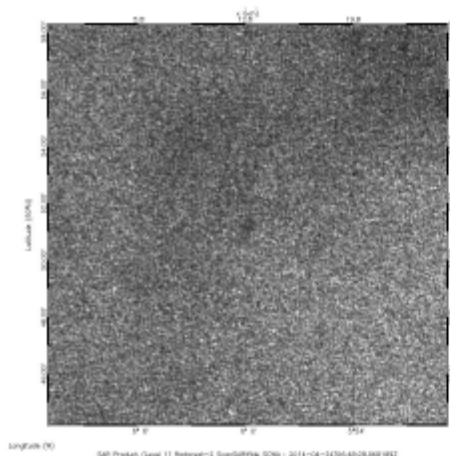
Spill 1 consists of one slick, the centre position of this spill is given as 51° 40' 49" N 006° 01' 49" W, The spill is approx 12.5nm West of The Smalls Lighthouse.



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Spill 2

Centre Position		SAR Wind at Center		Area (nm ²)	Length (nm)
Latitude	Longitude	Direction (From)	Speed (m/s)		
50° 51' 12" N	005° 59' 54" W	334.00	1.60	0.46	1.13



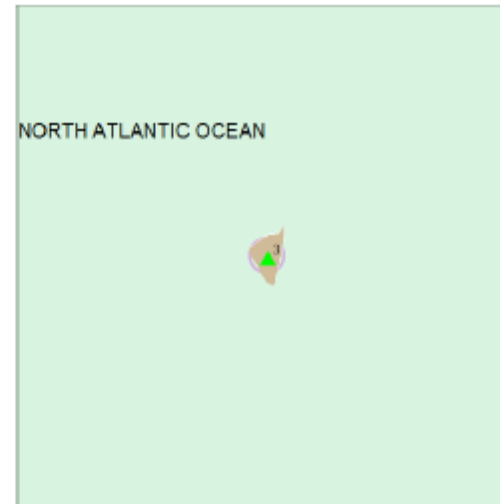
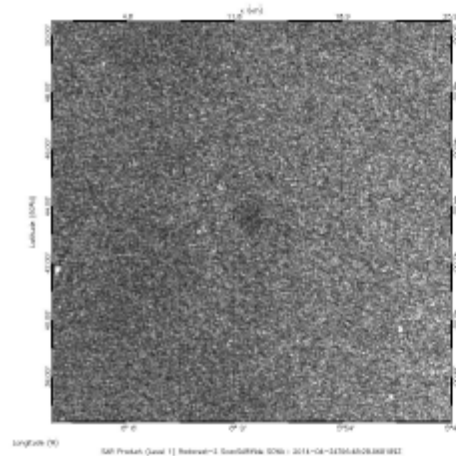
Spill 2 consists of one slick, the centre position of this spill is given as 50° 51' 12" N 005° 59' 54" E, The spill is approx 55nm West of Bude.



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Spill 3

Centre Position		SAR Wind at Center		Area (nm ²)	Length (nm)
Latitude	Longitude	Direction (From)	Speed (m/s)		
50° 43' 32" N	005° 58' 53" W	333.00	2.20	0.84	1.74



Spill 3 consists of one slick, the centre position of this spill is given as 50° 43' 32" N 005° 58' 53" E, The spill is approx 50nm West of Boscastle

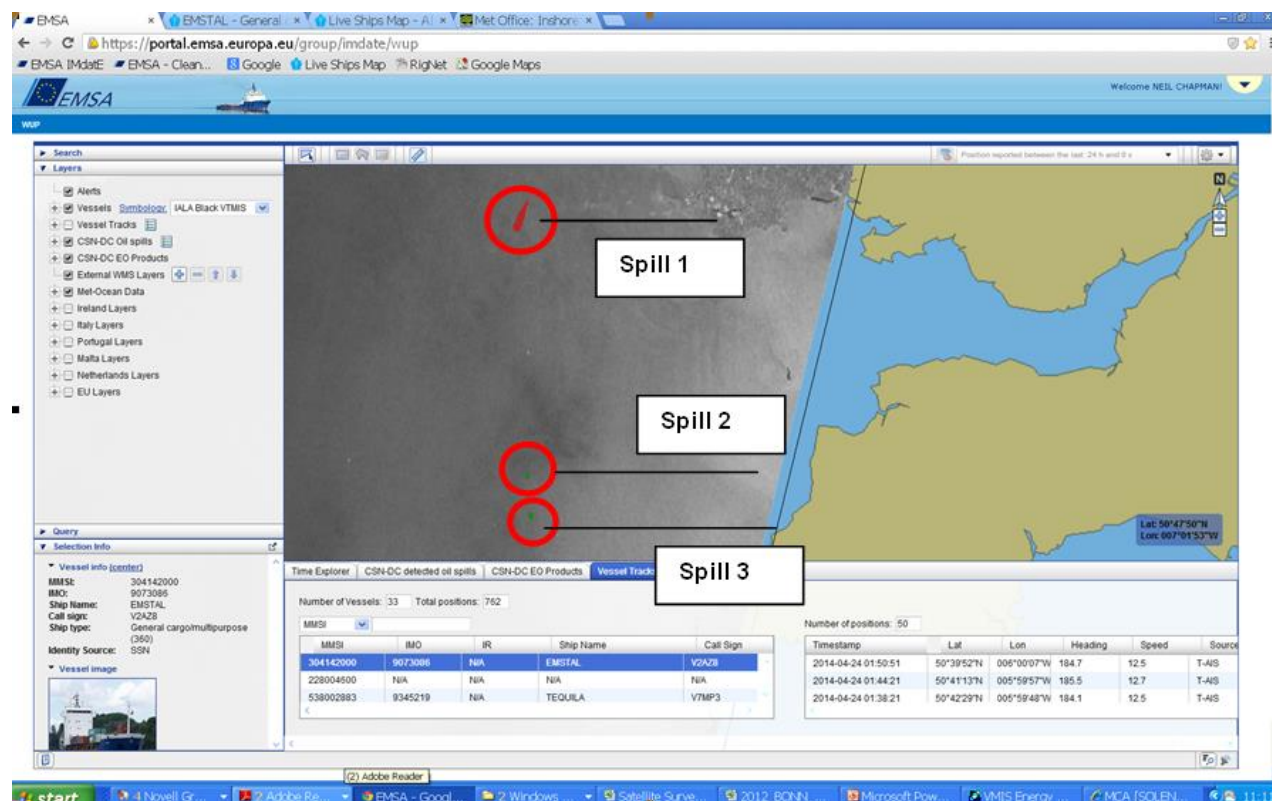


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Reviewed in IMDatE

Received 24/04/2014 06:47 UTC Scene ID: 132402

The circles denote position of spills.



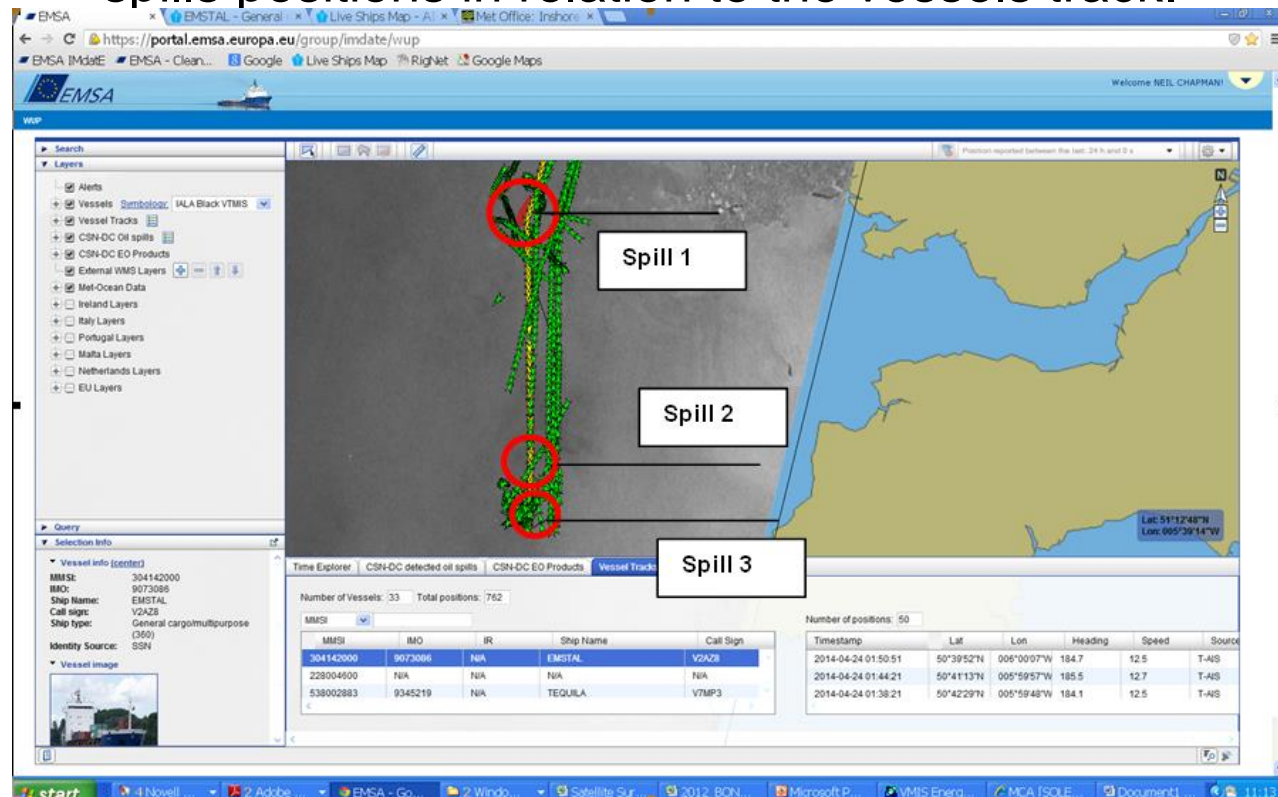
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Reviewed in IMDatE

The position of the AIS track (yellow line) of the vessel EMSTAL (IMO: 9073086, MMSI: 304142000). The red and green areas highlight the spills positions in relation to the vessels track.



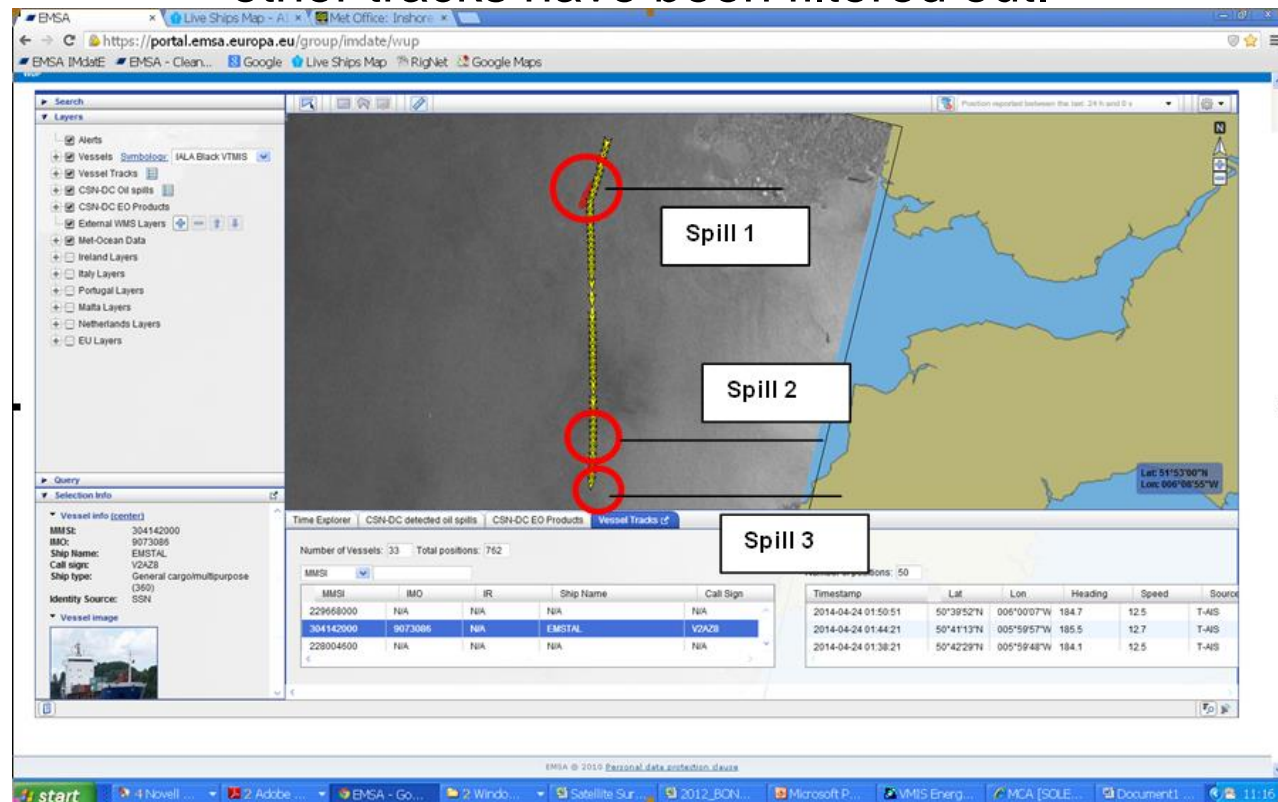
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Reviewed in IMDatE

Now showing only the AIS track (yellow line) of the vessel EMSTAL (IMO: 9073086, MMSI: 304142000) in relation to the spills positions, other tracks have been filtered out.



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CleanSeaNet Alert Report 2

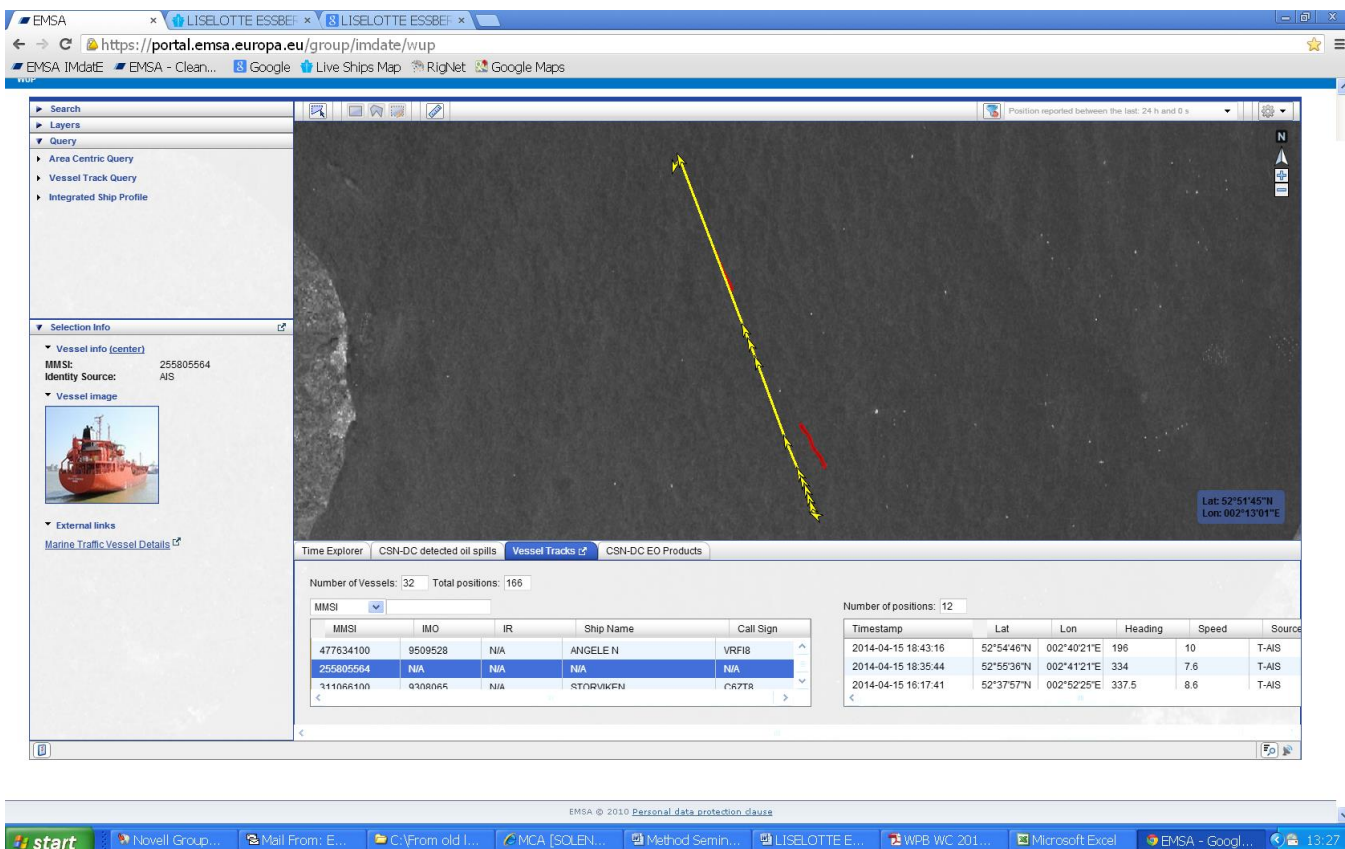
Received 15/04/2014 17:33 UTC Scene ID: 132386

- CleanSeaNet alert identifying possible release of hydrocarbon or other chemical.
- Spill consists of two slicks (red polygons), the spill is approx 43nm East of Great Yarmouth.
- The track (yellow line) shown relates to the vessel LISELOTTE ESSBERGER (IMO: 9020417, MMSI: 255805564)



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CleanSeaNet Alert Report 2

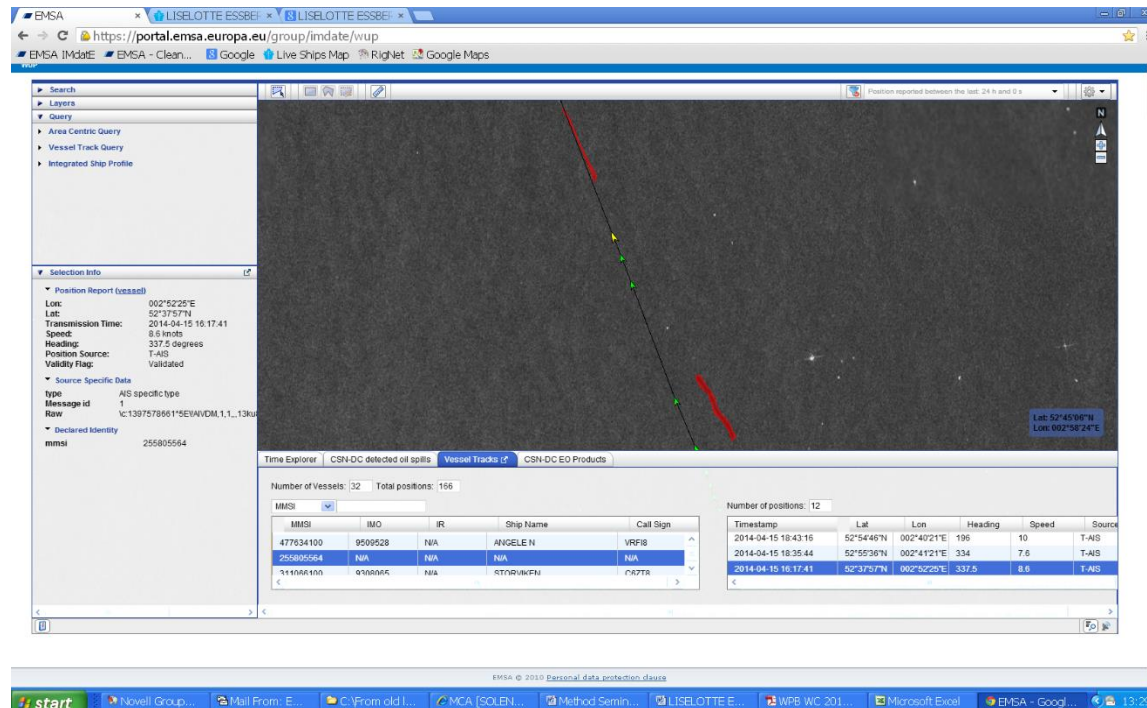


There are no other vessels in the area whose track closely matches that of the spill identified in the image acquired.



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CleanSeaNet Alert Report 2



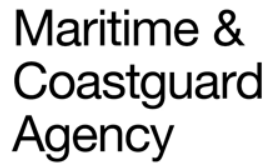
The above image shows the CleanSeaNet satellite image acquired at 17:35UTC and the position of the LISELOTTE ESSBERGER at 16:17UTC. At this point the vessel heading was 337.5°, Speed 8.6knts.



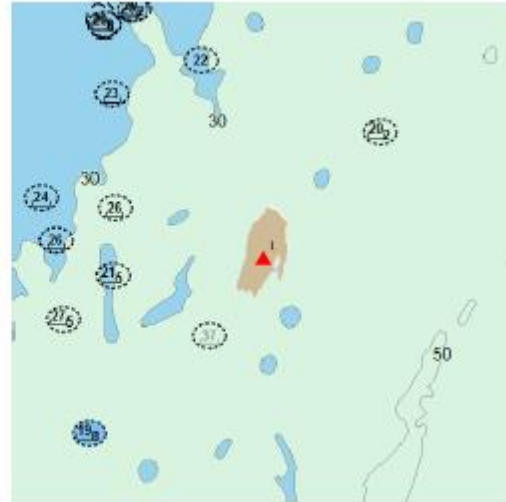
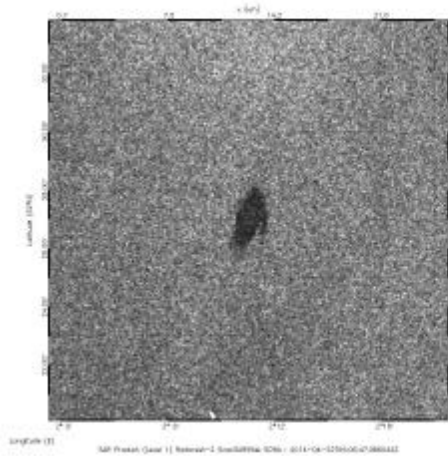
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CleanSeaNet Alert Report 3

- CleanSeaNet alert identifying possible release of hydrocarbon or other chemical.
- CleanSeaNet Alert Report, received 22/04/2014 06:04 UTC
- Scene ID: 132400



Spill 1

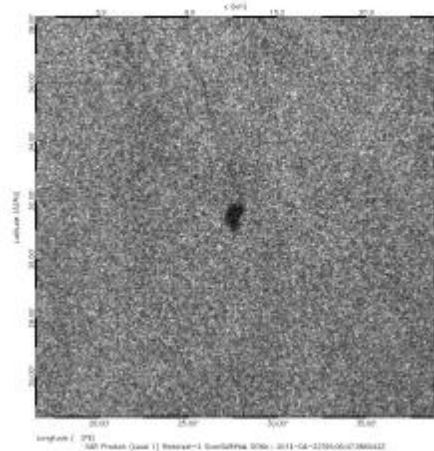


Spill 1 consists of one slick, the centre position of this spill is given as 52° 26' 49" N 002° 10' 38" E, the spill is approx 15nm East of Lowestoft.



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Spill 2



Spill 2 consists of one slick, the centre position of this spill is given as 52° 31' 31" N 002° 27' 40" E, the spill is approx 26nm East of Hopton on Sea.



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CleanSeaNet Alert Report 3

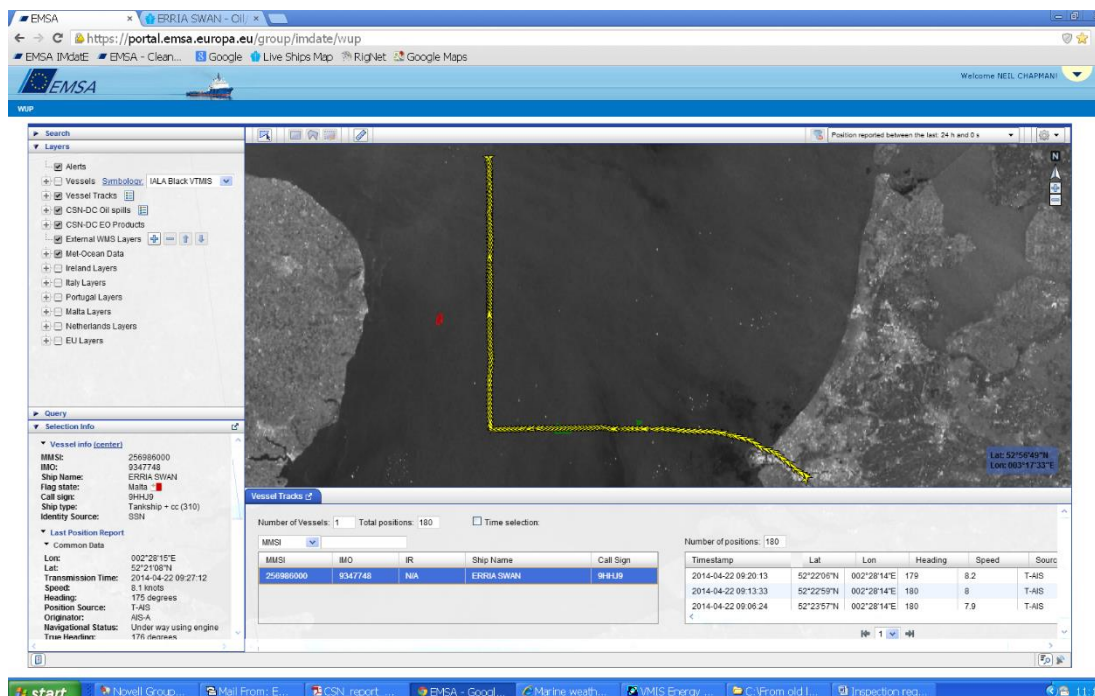


The CleanSeaNet report also identified two additional potential spills in Dutch waters (denoted by the black triangles), the red triangles relate to spill 1 & 2 previously shown:



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CleanSeaNet Alert Report 3

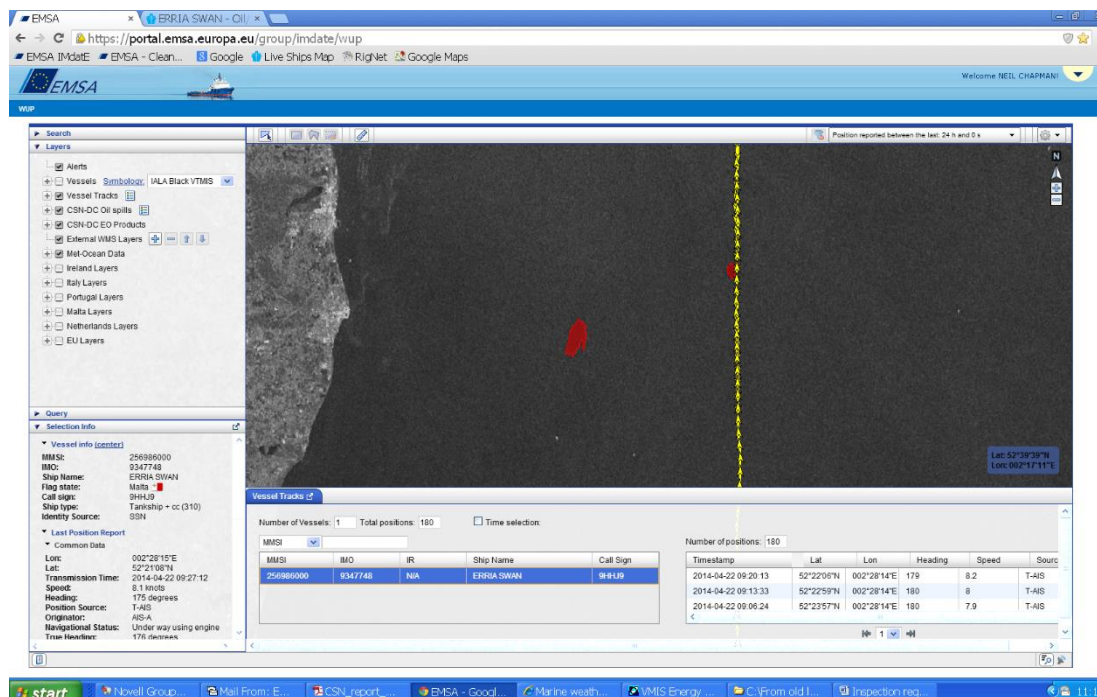


Reviewing vessel tracks in the area of the slick, IMDatE shows position of the AIS track (yellow line) of the vessel ERRIA SWAN (IMO: 9347748, MMSI: 256986000). The red and green areas highlight the spills positions in relation to the vessels track.



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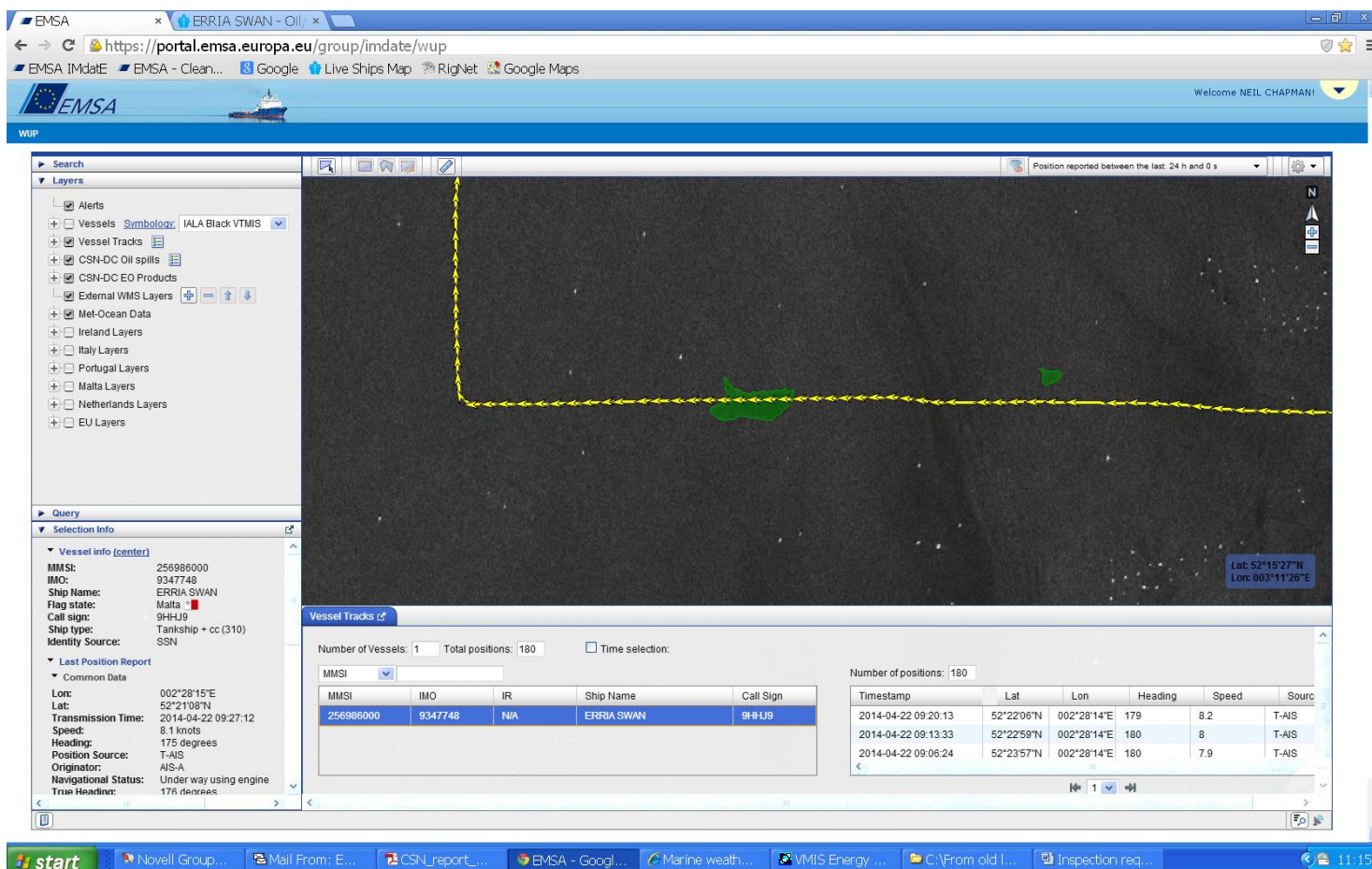


It is possible, with the prevailing weather and tidal conditions, that spill 1 may have been produced as the vessel transited north (approx 00:00 22/04/14).



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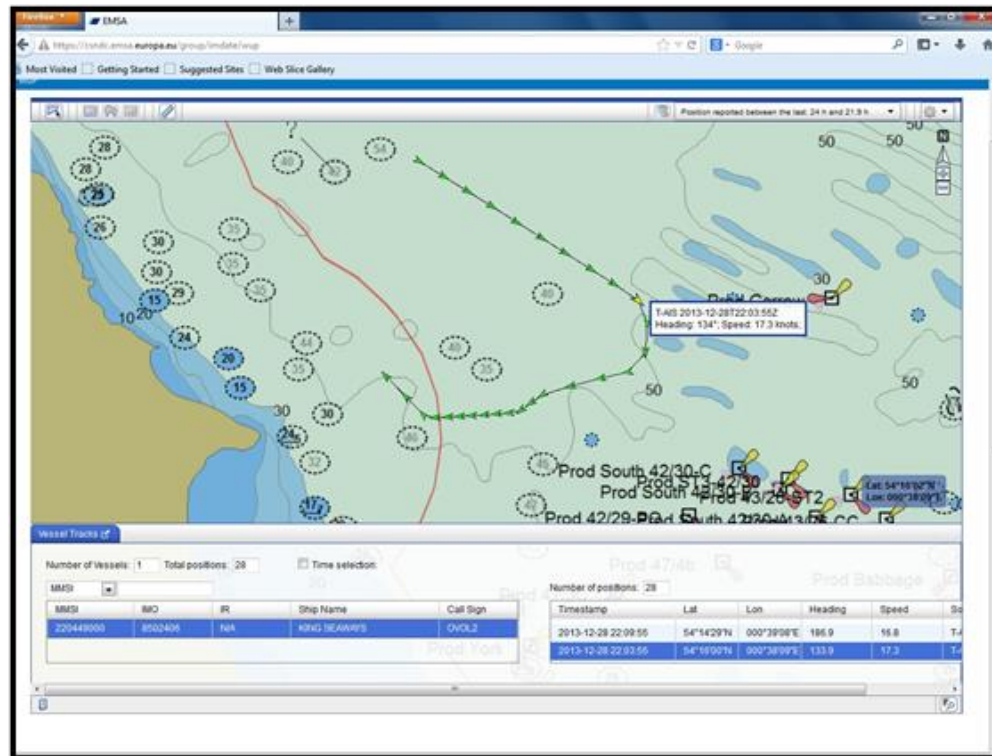
Ferry Fire (MRCC Humber)

- 28/12/2013 22:02UTC
- Vessel name – KING SEAWAYS
- Passenger ship on route from North Shields, river Tyne to Ijmuiden
- Passengers 946
- Crew 127
- Position 30 miles off Flamborough Head



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Ferry Fire (MRCC Humber)



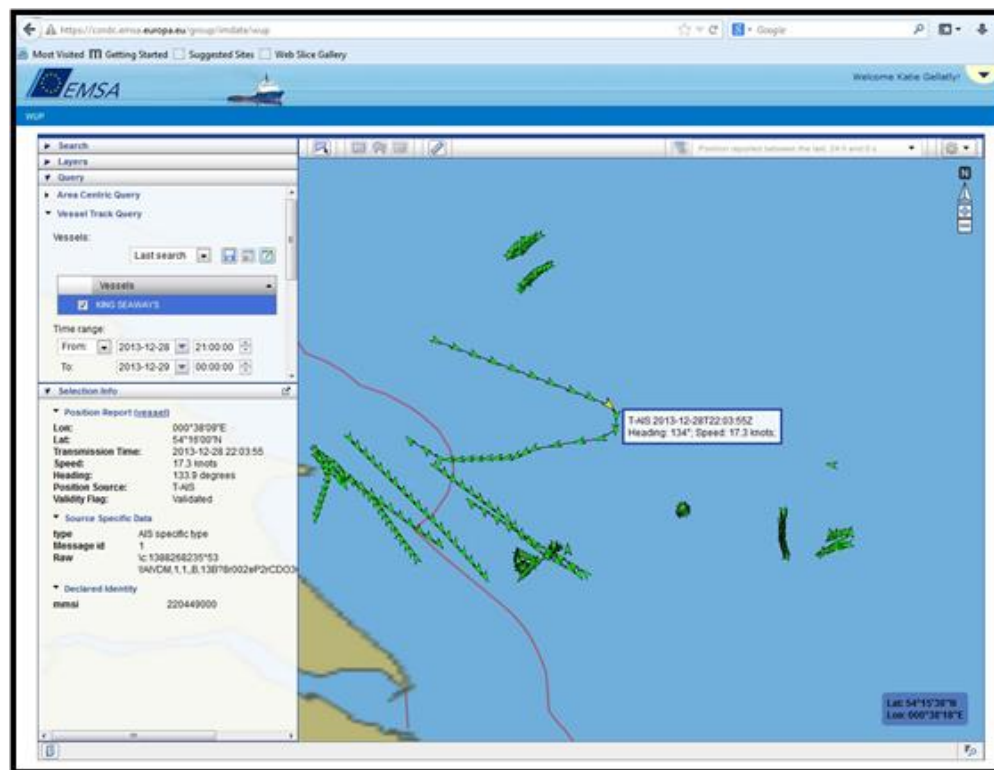
- Pan Pan on VHF CH16 stating they had a fire on board in part of the accommodation block.
- Issue with AIS so IMDate used for Domain Awareness
- King Seaway's track, with the yellow icon highlighted to indicate their position at first communication with MRCC Humber.

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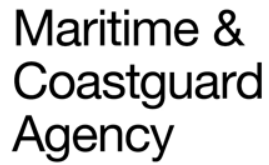


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Ferry Fire (MRCC Humber)



- 16 vessels in the area with the closest just over 10nm
- IMDate link to Marine Traffic gave quick access to essential information on each vessel.
- Forward planning tool for the SMC

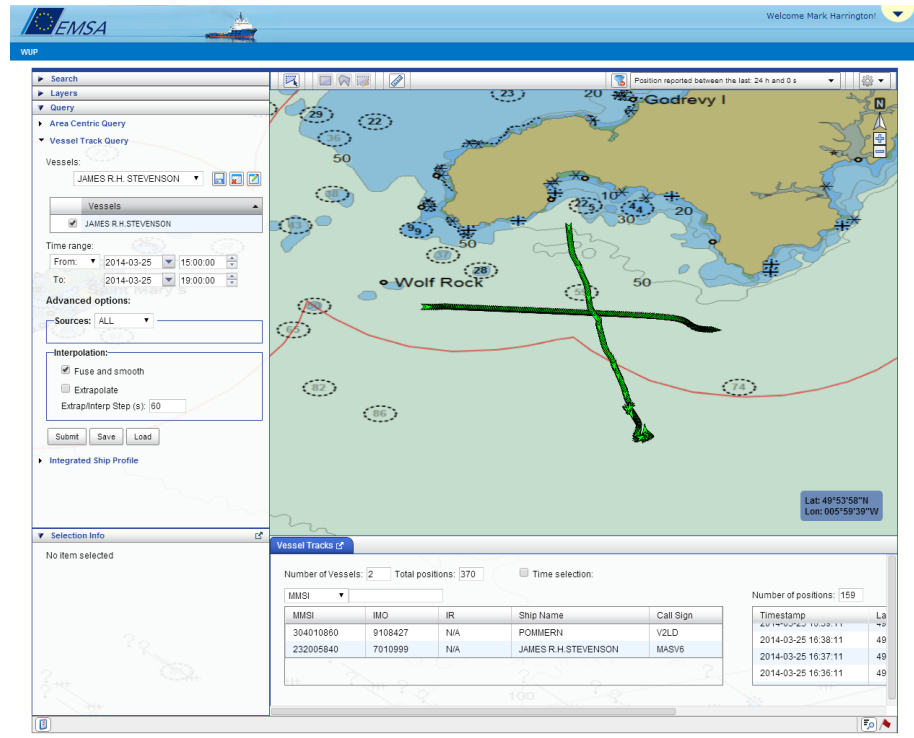


Collision between FV James Ralston and cargo ship POMMERN



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Learning Point

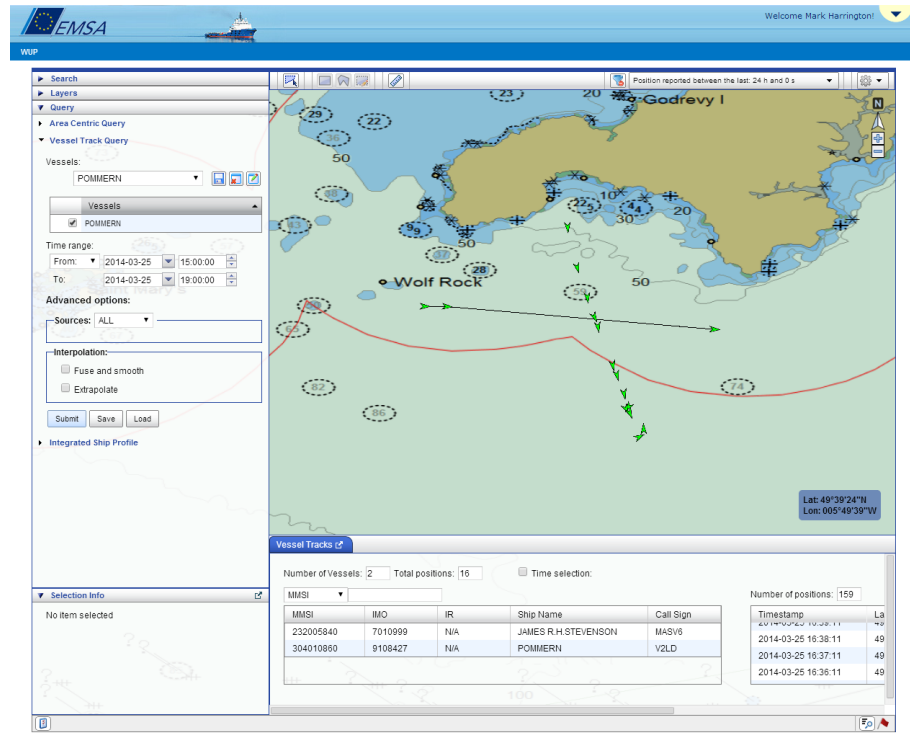


- Collision between FV James Ralston and cargo ship POMMERN
- In IMDatE the course change by POMMERN was not shown
- MCA Enforcement reported the “error”



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Learning Point



- Collision between FV James Ralston and cargo ship POMMERN
- Only 3 actual positions for POMMERN
- Fuse and Smooth had filled in the gaps



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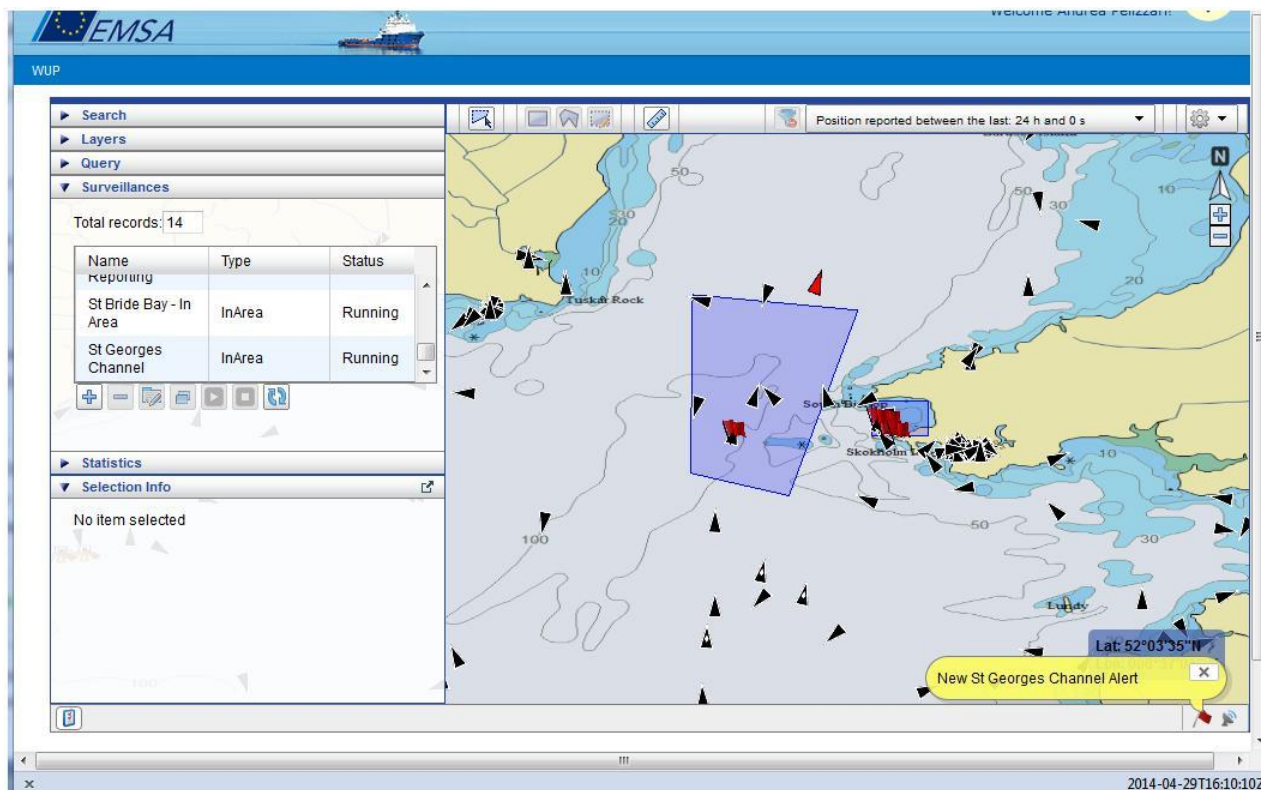
IMDatE Alerts

- Two IMDatE Alerts activated
 1. St Brides Bay - anchorage area for the port of Milford Haven (In Area Alert)
 2. St Georges Channel (Sudden change of Speed Alert)
- Alerts by email and/or shown in IMDatE
- No Surveillances section shown in my account



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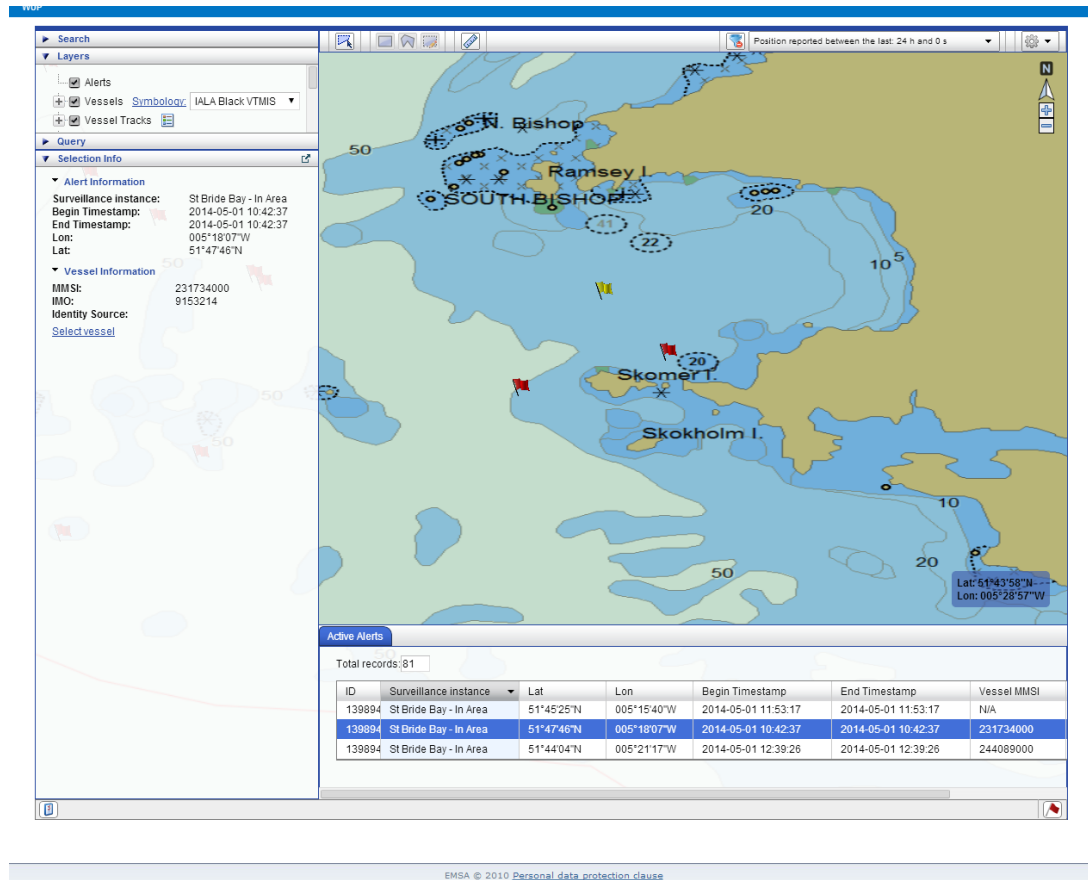
IMDatE Alerts





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IMDatE Alerts



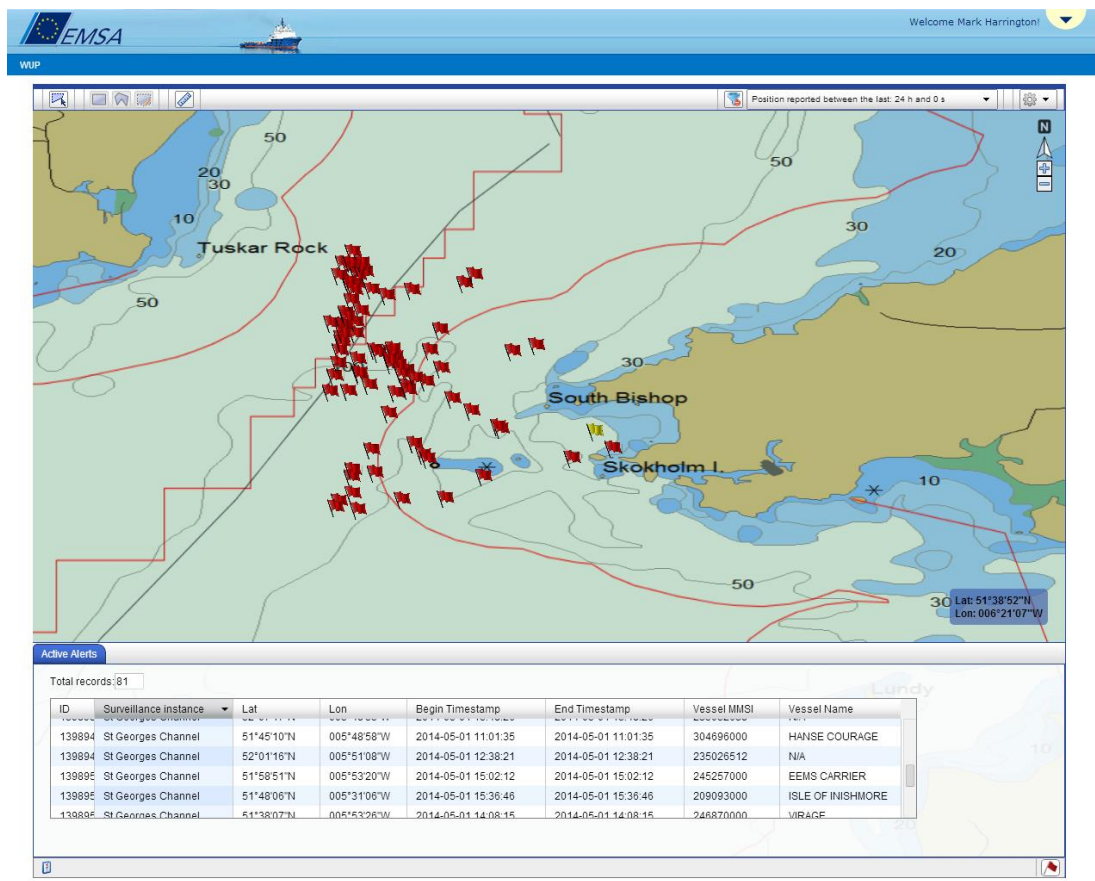
St Brides Bay (In Area) – works well

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IMDatE Alerts



St Georges Channel (speed change) – unsure



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New Functionalities

- Drawing tool to place a marker or draw a boundary
- CleanSeaNet Alert Area
- UK Maritime boundaries (under change)
- IMDatE Alert Areas
- Improved Technology (MCA)



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The End

THANK YOU FOR YOUR ATTENTION