



**Maritime Surveillance:
Cooperation in Practice
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EFCA at a glance



The European Fisheries Control Agency (EFCA) is a European Union body established in 2005 to organise operational coordination of fisheries control and inspection activities by Member States and to assist them to cooperate so as to comply with the rules of the Common EU Fisheries Policy in order to ensure its effective and uniform application.

- **Staff of 58** (19 Nationalities)

- **3 Units**

- Unit A (HR & Finance)

- Unit B Capacity Building

- Unit C Operational Coordination





The EU Common Fisheries Policy (CFP)



The CFP is a set of rules for managing European fishing fleets and for conserving fish stocks

One of the main CFP policies is **fisheries management**

Input/output controls:

- Access to waters
- Fishing licenses and permits
- Quota uptake
- Fishing effort
- Reporting requirements





Maritime Surveillance and fisheries management



Monitoring and enforcement of the Input/output controls requires effective maritime surveillance tools

Vessel Monitoring System (VMS)

- satellite based system providing position every 2 hours
- disadvantage: cooperative system, at relatively low frequency



IMDatE EFCA MARSURV Service

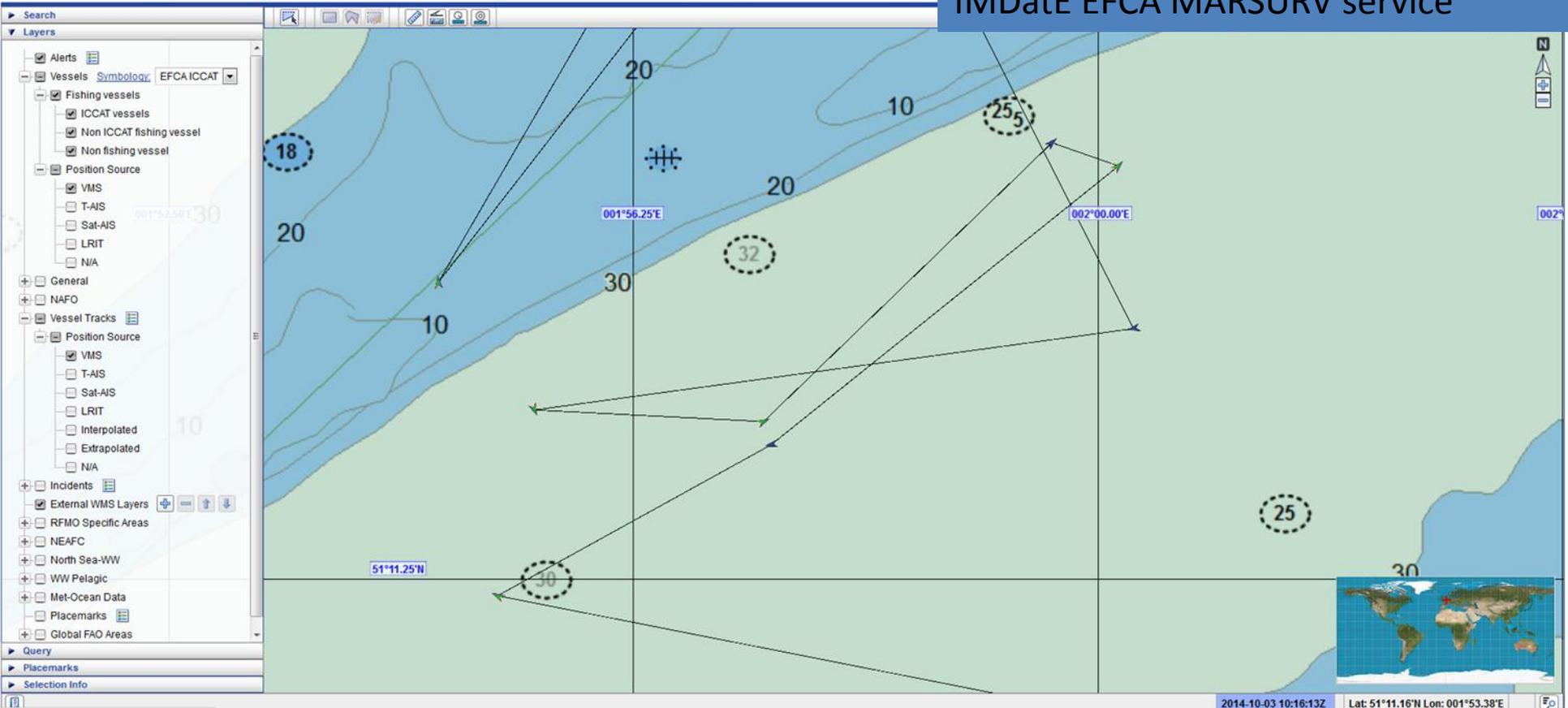
- providing access to other position data sources T-AIS, Sat-AIS and LRIT
- integration & correlation with VMS and other info providing for integrated tracks



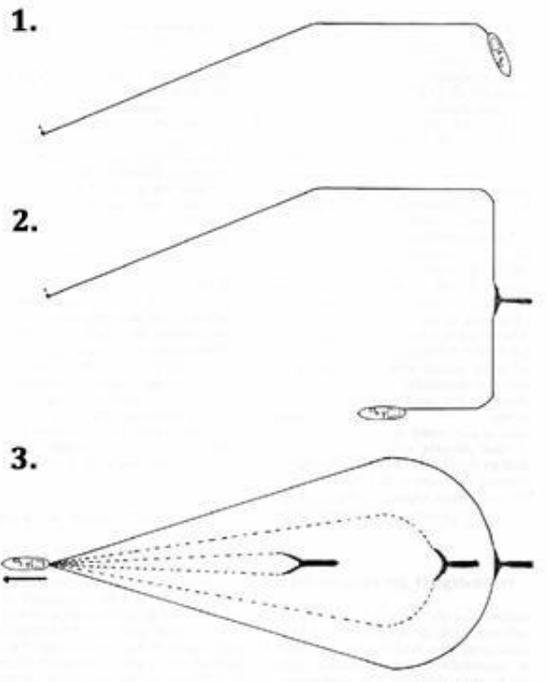
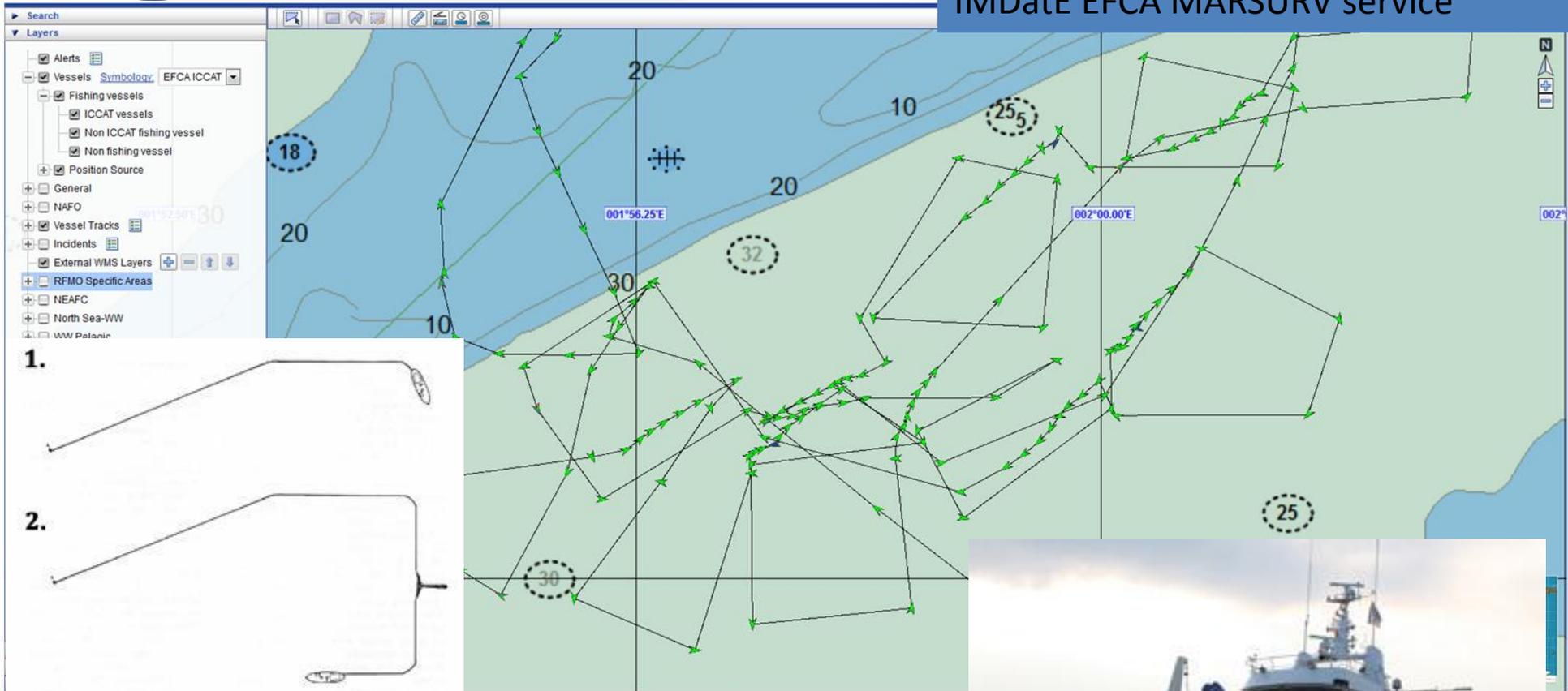
Vessel Monitoring System (VMS)



IMDatE EFCA MARSURV service



IMDatE EFCA MARSURV service



The use of static gear is regulated (technical measures), some static gear can only be used at certain depths.

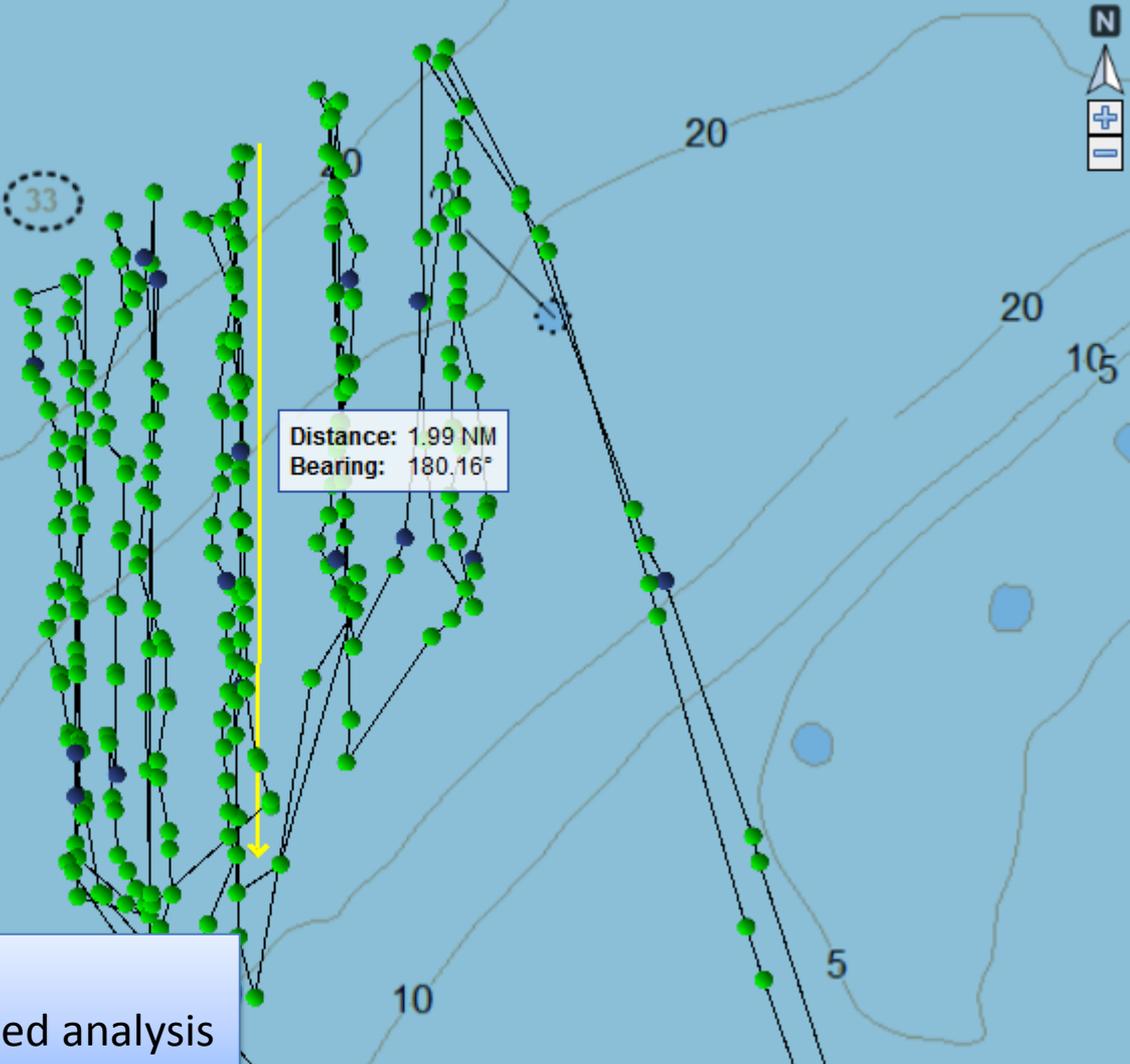
Challenge:

- Technical inspection at sea is cumbersome (mesh size, length)
- Gear can be several km long
- Difficult to detect the gear & establish dimensions visually



Monitoring of deployment of static fishing gear

2015-04-16 06:20:00Z	51°12.84'N	002°13.67'E	182.5	5.3	T-AIS
2015-04-16 06:17:39Z	51°13.07'N	002°13.66'E	180.3	5.6	T-AIS
2015-04-16 06:16:00Z	51°13.20'N	002°13.68'E	187	5.7	VMS
2015-04-16 06:13:32Z	51°13.45'N	002°13.68'E	177.6	6	T-AIS
2015-04-16 06:11:30Z	51°13.67'N	002°13.68'E	176.1	6.2	T-AIS
2015-04-16 06:07:30Z	51°14.05'N	002°13.70'E	185	5.6	T-AIS
2015-04-16 06:05:30Z	51°14.26'N	002°13.67'E	174.5	5.1	T-AIS
2015-04-16 06:00:30Z	51°14.49'N	002°13.53'E	123.2	2.5	T-AIS
2015-04-16 05:59:30Z	51°14.51'N	002°13.47'E	257.6	3.3	T-AIS
2015-04-16 05:54:02Z	51°14.53'N	002°13.62'E	16.7	1.5	T-AIS
2015-04-16 05:53:18Z	51°14.51'N	002°13.60'E	323.3	2.3	T-AIS
2015-04-16 05:47:06Z	51°14.35'N	002°13.66'E	8.3	1.6	T-AIS
2015-04-16 05:46:31Z	51°14.33'N	002°13.66'E	13.6	1.8	T-AIS
2015-04-16 05:40:54Z	51°14.17'N	002°13.61'E	1.5	1.6	T-AIS
2015-04-16 05:40:02Z	51°14.14'N	002°13.61'E	351.8	0.6	T-AIS
2015-04-16 05:34:52Z	51°14.00'N	002°13.58'E	327.7	0.8	T-AIS



IMDatE EFCA MARSURV picture
Gear length measurement + speed analysis



In practice: Bluefin tuna (BFT) fisheries

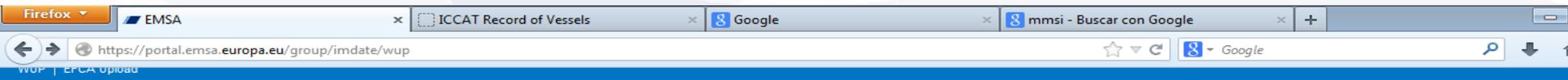


The BFT fishing vessels have to adhere to strict reporting and catch recording rules

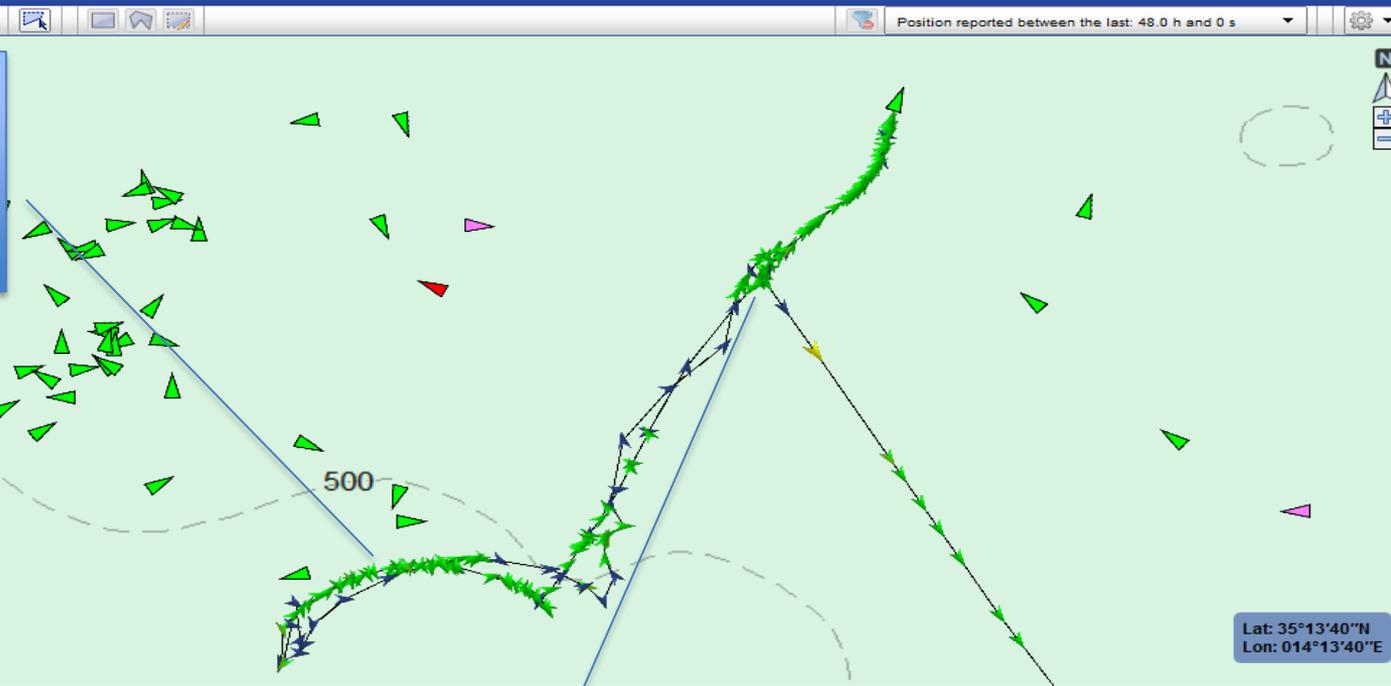
Challenge:

- BFT catching operations are very fast
- Complex operations involving different vessels
- High value fish, transferred & transported at sea
- Fishing season is very short

Monitoring of BFT fisheries reporting obligations



2 BFT tugs with same speed & course each towing cage



Vessel Tracks

Number of tracks: 3 Total track points: 225 Track animation

MMSI	IMO
247228800	N/A
247158700	N/A
247141200	N/A

Lat	Lon	Heading	Speed	Sou
5°10'15"N	014°14'24"E	150.20	7.80	1
5°10'43"N	014°14'05"E	150.50	8.00	5
5°13'40"N	014°11'59"E	147.80	6.80	7

point of cage transfer 1 tug with 2 cages continues, other tug speeds up and changes course



Improved behavior monitoring and targeting



Automated correlation of various datasets provided by different user communities result in a more focused detection of possible non compliance .

Adding an additional dimension to the classic datasets, innovative inter-agency cooperation projects are looking at;

- Including VDS detection
- Using RPAS technologies
- Exchanging surveillance information

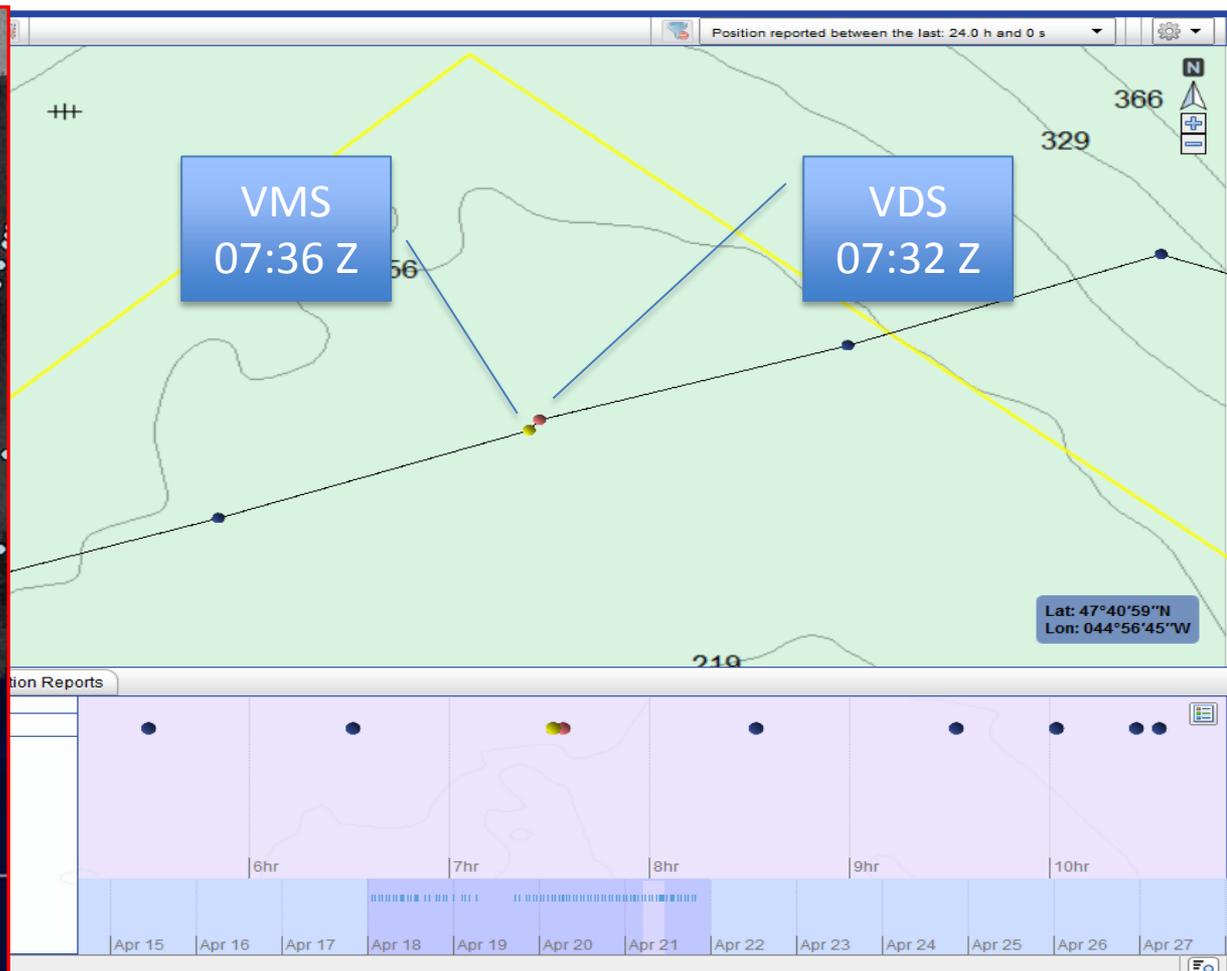
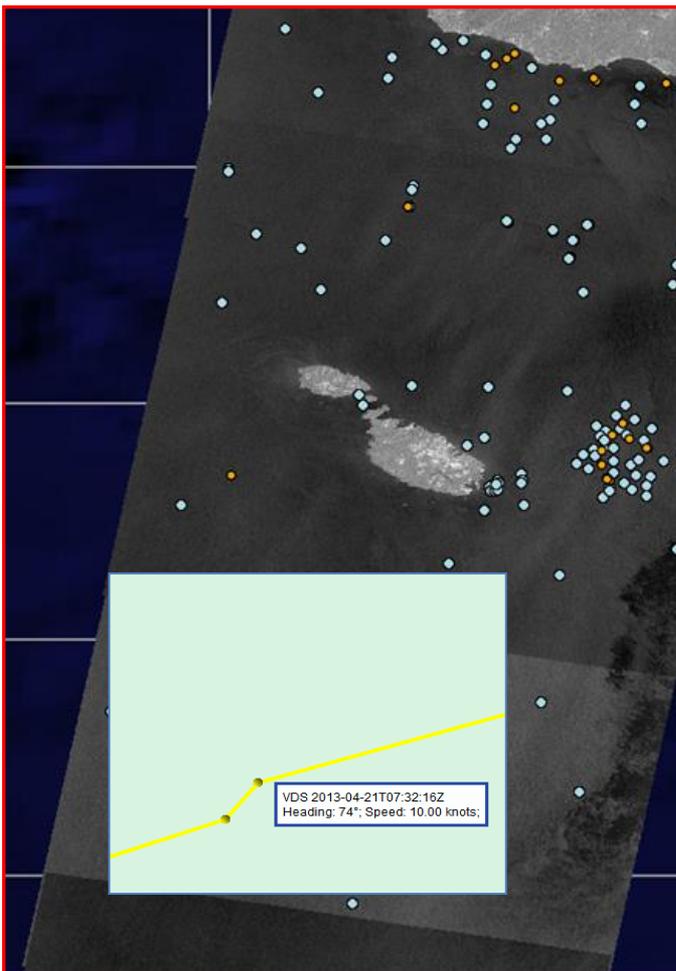




Cross checking using VDS



Firefox EMSA
https://portal.emsa.europa.eu/group/imdate/wup#
Welcome efca nafo operator!





Inter-agency cooperation

Cooperation arrangement between Frontex, EMSA and EFCA (since 2009)

- Exchange of best practices (training, seminars)
- Cooperation in various projects (IMDatE, CYRIS, etc...)
- Exchange of information
- ...

Challenge:

- Sharing VMS (SARSURPIC, EUROSUR...)





THANK YOU!