

# **EUROFLEETS2**

## **Preparation of the project's legacy**

by Valérie Mazauric, EUROFLEETS2 Coordinating team

## EUROFLEETS2 : 31 beneficiaries working together in three structuring activities

- **Trans National Access**, based on the process successfully proven in EUROFLEETS, strengthened with more RVs (22) and pieces of equipment (5)
- **Joint Research Activity** with 3 components focusing on innovative technologies for underwater systems, guidelines and generic designs for Regional, and software and tools with strong emphasis on standardisation
- **Networking Activity** with a range of actions aiming to **a better coordination** of European Research fleets (including the Polar ones), and a particular emphasis for the **training** of young scientists

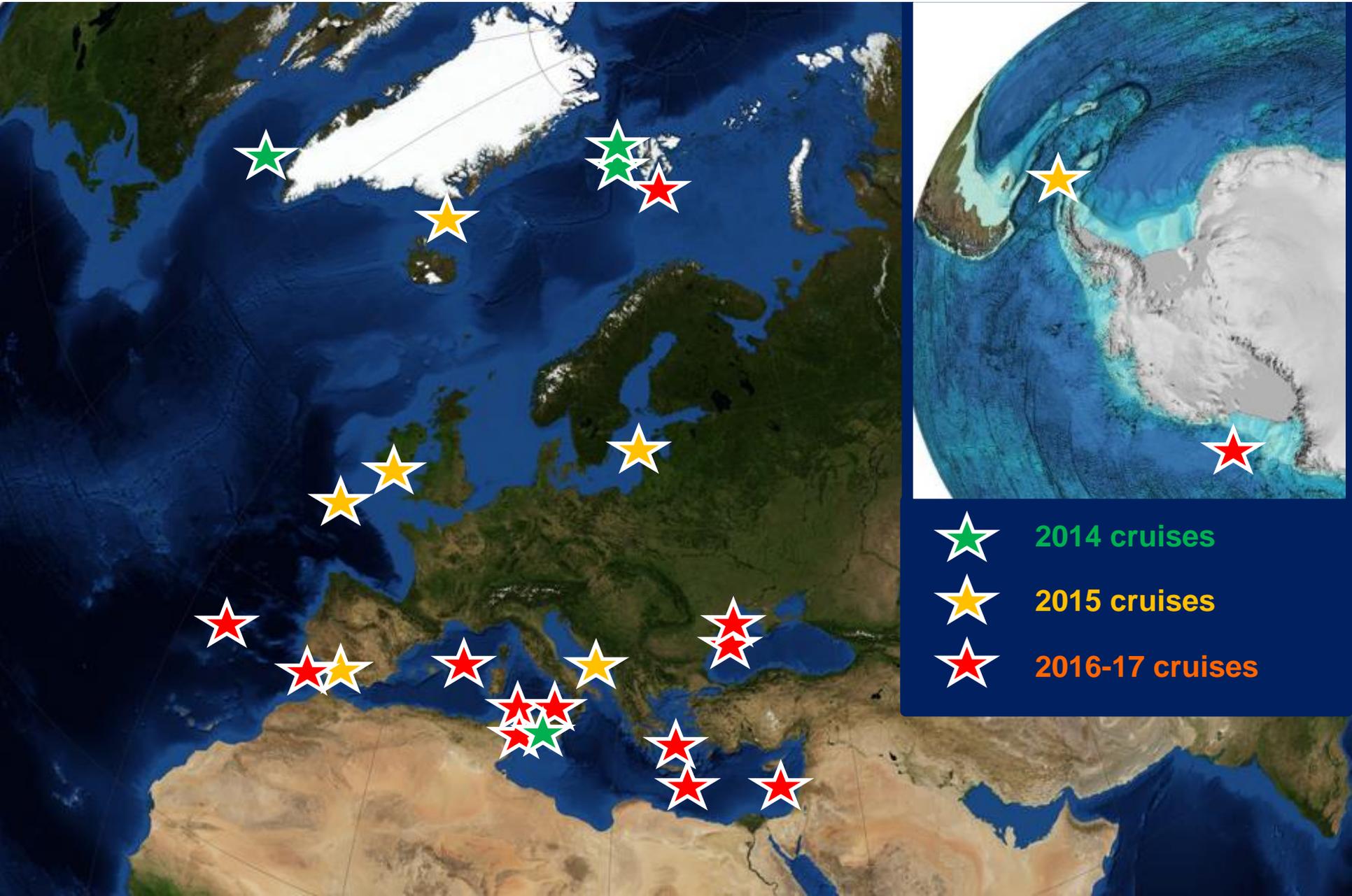


# The TNA activity, in summary

- **4 ship-time calls and 1 equipment-time call**
- **50 submitted proposals with multi-national groups from more than 180 institutions, from 39 countries**
- In total, **24 scientific projects** on board 17 RVs, representing more than 200 days of ship-time and 25 days of equipment-time
- **6 main geographic areas:** Sub-artic (5), Antarctic (2), Baltic Sea (1), Atlantic (4), Med. Sea (10) and Black sea (2)
- Access requested to carry out projects in a **wide range of scientific disciplines**



# EUROFLEETS2 funded cruises



# Project's timeline for its last year



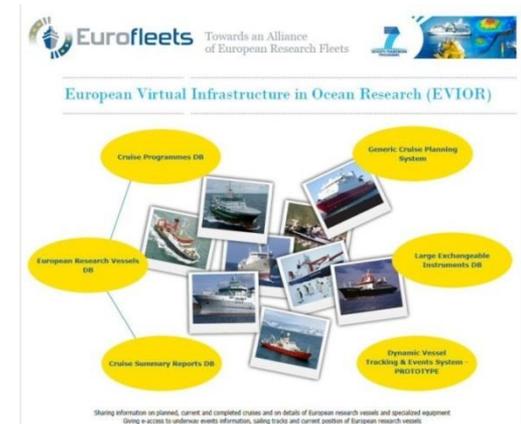
- 10 months to finalize the project delivery and to determine the components which can be transferred to other groups
- ... i.e 10 months for ERVO to determine which components or reports the ERVO group would be willing to take over, maintain or to further expand ...





# Some components of interest for ERVO

- **The EVIOR portal** (<http://eurofleet.maris2.nl/startpage.html>) with components still under development:
  - **Access to the RV and LEXI infobases** maintained by EurOcean
  - **Access to the Cruise Programmes DB (POGO)**
  - The EARS module for **RV tracking and event logging**
  - The **Generic Cruise planning tool**



Select research vessel

- Sarmiento de Gamboa
- Hesperides

Select Track

2015-08-23T00:00:52 (4700)

Track info

Date	Speed	Bearing
2015-08-23T00:00:52	9.97	229.3
2015-08-23T00:01:53	9.96	229.1
2015-08-23T00:02:54	9.99	229.1
2015-08-23T00:03:55	9.96	229.0
2015-08-23T00:04:56	9.98	229.2
2015-08-23T00:05:57	9.97	229.2
2015-08-23T00:06:58	9.95	229.3
2015-08-23T00:07:59	9.99	229.2
2015-08-23T00:09:00	10.02	229.1
2015-08-23T00:10:01	9.98	229.5
2015-08-23T00:11:02	10.02	228.9
2015-08-23T00:12:03	10.05	229.0
2015-08-23T00:13:04	10.01	229.0
2015-08-23T00:14:05	10.01	229.5
2015-08-23T00:15:06	9.99	229.0
2015-08-23T00:16:07	9.96	228.0
2015-08-23T00:17:08	10.0	228.1

Dynamic Vessel Tracking & Events System - PROTOTYPE

Description	Values
main_code	1
vessel_name	Sarmiento de Gamboa
vessel_c174	SDN:C174:124:29AH Vessel details

Full details ship summary report

Events During Track

Date	ID	Description



# Some components of interest for ERVO

- **On management procedures of European research fleets**
  - 2 reports (dated February 2011 and July 2012) on **existing procedures for RV management and cruise planning** in 15 European countries, with a **set of guidelines** aiming to foster common standards and harmonised procedures for RV management and cruise planning
- **TNA procedures for ship-time calls and proposals selection & evaluation?**
  - **Guidelines** for common peer review criteria and processes for scientific evaluation/selection (1 report dated July 2013)
  - Fundamental **Set of Rules for an European System** (1 report in 2016)



# Some components of interest for ERVO

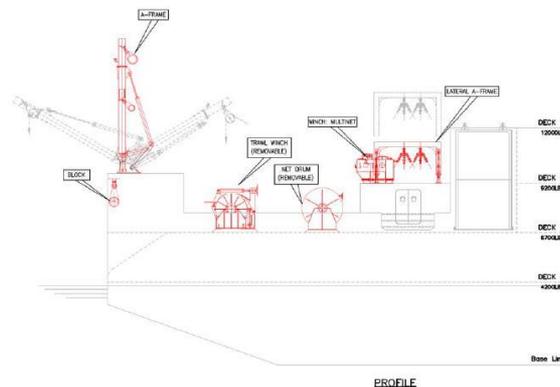
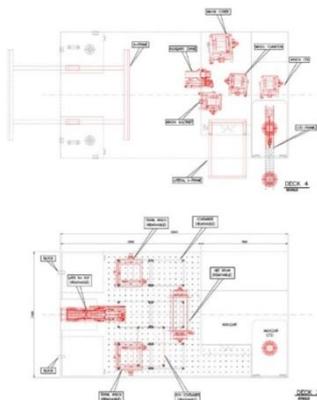
- For more interoperability between research fleets
  - Procedures & protocols for deploying (23) Large Exchangeable Instruments (LEXI), including nearly 900 individual interoperability assessments for Large Exchangeable Instruments across (39) European Global & Ocean RVs (2 reports dated September 2011 and September 2013)

LEGEND		RV																MRV										AV										NOV										ERMO SYSTEM									
RVs	Country	Length	MaxDepth	Depth	Water 4000	Isis	Logos	Albatros	Max Rover	Rail 6000	Luso	Proca	Melto	ABYSS	Autosub	SEAL	Bluefin2	HUGIN	Autosub	NAUTILUS	JAGO	Bergan	CBC	FCI	Ami																																
French access through TNA1	France	200m	400m	4000m	4500m	200m	200m	200m	200m	200m	200m	200m	200m	200m	200m	200m	200m	200m	200m	200m	200m	200m	200m	200m	200m																																
Portugal past?	France	150.00 m																																																							
France	France	75.00 m																																																							
Meteor	Germany	57.50 m																																																							
Recherche de Gombos	Spain	75.00 m																																																							
Berlin Dubna	France	150.00 m																																																							
NOF-Europa	Spain	75.00 m																																																							
Polycova, Svalbardmen	United Kingdom	170 m																																																							
Marko Taper	Germany	55.00 m																																																							
James Clark Ross	United Kingdom	99.04 m																																																							
Recherche	Germany	115.00 m																																																							
Recherche	Spain	52.50 m																																																							
Recherche	Spain	175.00 m																																																							
NOF - Du Carlos I'	Portugal	68.30 m																																																							
NOF - Recherche Svald Gommor	Portugal	65.20 m																																																							
Autosub	France	54.00 m																																																							
James Cook	United Kingdom	60.00 m																																																							
Ernst Shackleton	United Kingdom	60.00 m																																																							
Trifone	France	75.00 m																																																							
Recherche-Bismark	France	75.00 m																																																							
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- **For more interoperability between research fleets**
  - Thematic guidelines on: **All reports are public!**
    - **Ship greening** (1 report on guidelines for RV eco-design dated Oct. 2012)
    - **Noise and vibration reduction** (1 report dated Dec. 2014)
    - **Bubble sweep down avoidance** (1 report soon available)
    - **Work deck installations for Regional RVs** (1 report dated Nov. 2015)  
A tutorial document useful for scientists, technicians but also ship designers, RV operators and crew!

CTD	Plankton nets	Electronic Plankton nets	Trawls	Sledges	Grabs	Coring	Dredging	Electronic/Acoustic towed equipment	Seismic	AUVs, ROV, Drifting buoys, Moorings ...
CTD & Rosette	Bongo net	LHPR	Bottom trawls	Neuston		Gravity coring	Geological dredge	Sidescan sonar	Streamers	
Undulating CTD	WP2	MOCNESS	Pelagic trawls	Benthic		Multicoring	Agassiz or fishing dredge	Magnetometers	Airguns, sparkers	
MVP	Phytoplankton nets	MULTINET	Other trawls	Landers/Video		Box coring		Acoustic towed fish		
	IKMT and RMT					Vibrocoring				





Photos courtesy of Renata Lucchi (OGS)



Photos courtesy of Amy Lusher (MRFC, IE)



Thank you for your attention



Photos courtesy of Laura de Steur (NIOZ)



Photos courtesy of MED-SUV.ISES Team