

European Research Fleet Developments

- Ocean research Fleets Working Group (OFWG)
- Ocean Facilities Exchange Group (OFEG)

RVOC 2007

European Research Fleet Developments

Ocean research Fleets Working Group



The ESF Marine Board Working Group report in print

Position Paper 10

European Ocean Research Fleets

March 2007

Towards a Common Strategy and Enhanced Use



the report can be downloaded from

www.esf.org/marineboard

The OFWG Report:

- ♦ gives an inventory of the current RV fleet and major equipment and its evolution as a basis for decision making on future investments in marine infrastructure, including fleet renewal. (A.1, A.2)
- ♦ gives an overview on the existing management and funding processes as well as on the existing partnerships as a basis for improvement and possibilities of further collaboration. (A.3, A.4)

Present status of the European

Academic Research Fleet,

CLASS	Europe		US		
	Number of vessels	%	Number of vessels (from UNOLS)	%	
GLOBAL	11	24%	10	38%	
OCEAN	15	33%	8	31%	
REGIONAL	20	43%	8	31%	



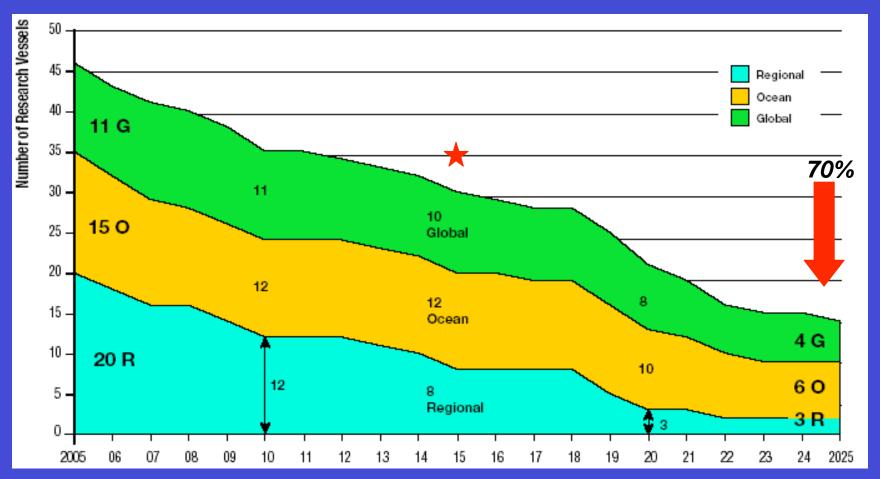
Table 1: European and US research class fleets

Coastline Europe versus US: 68,000 km vs 9,700 km

European Research Fleet Class & Length

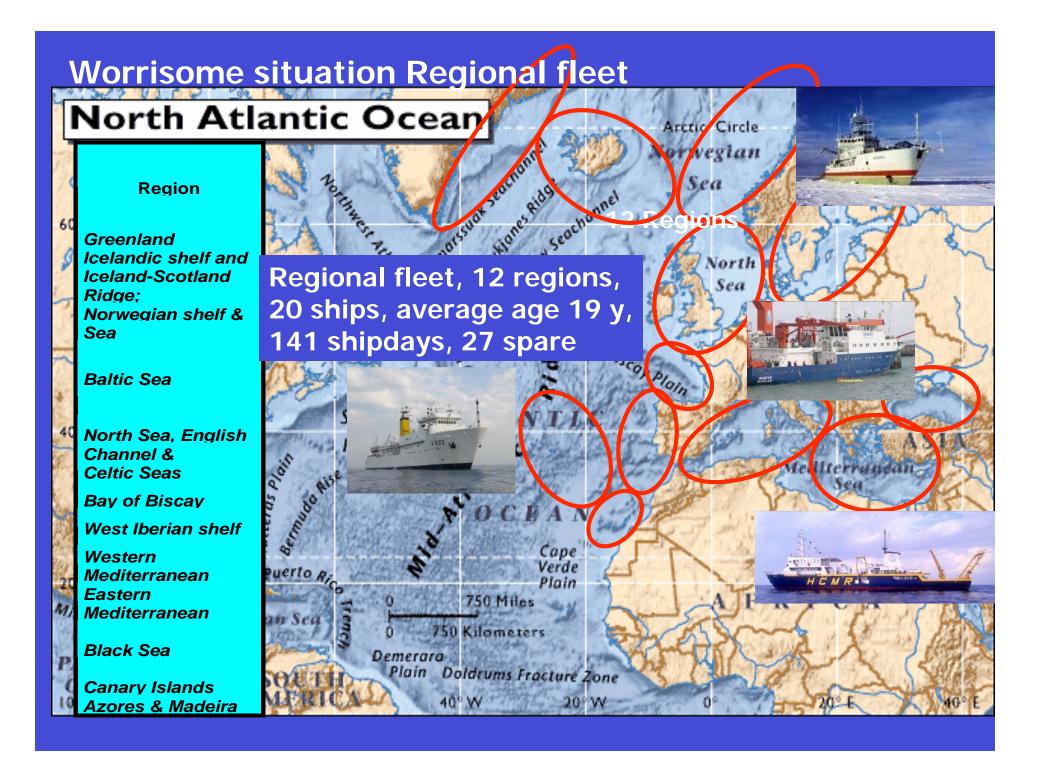
	51	Belgium	VEJAS	56 Lithuania
		Bulgaria	PELAGIA	
3 23 23 23 23 2	60	Finland	DR FRIDTJOF NANSE	
L'ATALANTE	85	France		77 Norway
	56	France	HAKON MOSBY	47 Norway
MARION DUFRESNI				64 Norway
POURQUOI PAS?			JOHAN HJORT	64 Norway
		France	OCEANIA	48 Poland
		Germany		68 Portugal
		Germany		
		Germany		47 Portugal
METEOR		Germany	NORUEGA	47 Portugal
		Germany		82 Romania
		Germany	CORNIDE DE SAAVEI	
	98	Germany	GARCIA DEL CID	37Spain
	62	Greece		83Spain
			SARMIENTO DE GAM	<u>-</u>
BJARNI SæMUNDS			VIZCONDE DE EZA	<u>-</u>
ÁRNI FRIÖRIKSSOI	70	Iceland	ARGOS	61 Sweden
CELTIC EXPLORER	65	Ireland	BILIM	40Turkey
CELTIC VOYAGER	31	Ireland	CHARLES DARWIN	69 UK
EXPLORA	73	Italy	DISCOVERY	90 UK
UNIVERSITATIS	45	Italy Italy	JAMES CLARK ROSS	99 UK
	61	Italy		35 UK
		_		

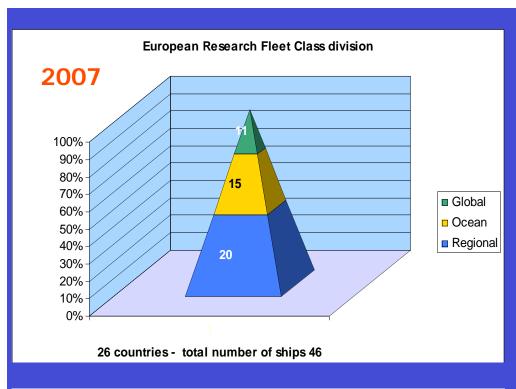
Evolution European Academic Research Fleet 2005 - 2025



Without any yet planned new builds, within 20 years the fleet will be reduced by 70%.

In 2006 James Cook (UK) replaces Charles Darwin (Ocean Class becomes Global Class)

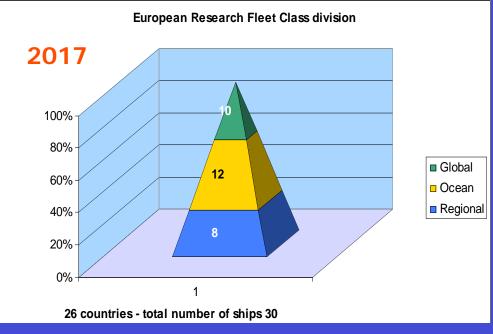






2007: 46

operated by 19 coastal states



2017: 30

operated by 14 coastal states

Regional Class 60% |

Conclusions:

- The aged Regional Class fleet and its rapid decline may jeopardize the continuity of research that is of high societal relevance and public interest for European citizens, such as:
 - environmental issues
 - living resources
 - water quality
- The Global and Ocean Class fleet is up to date and constitute an essential means for proper acces to high quality marine data

Recommendations regarding vessels:

I. Renewal

 a replacement strategy within the next 10 years is needed with high priority to renew the quickly ageing Regional Class fleet

II. More efficient use by:

- Coordination of fleet scheduling
- Stimulating bartering arrangements, regional or thematic
- Encouraging chartering processes for non-funded shiptime
- Creation of a "scrap premium" to decommission old under-utilised ships

III. Long term investment strategy by:

• integrating strategies, stimulating partnerships and facilitate co-ownership

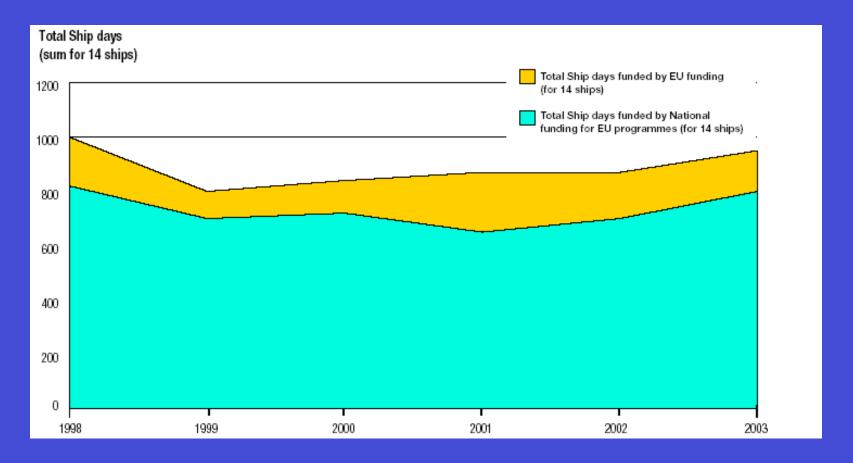
Conclusions regarding large exchangeable equipment:

The European set is state-of-the-art, performing excellently, and is more extensive than elsewhere in the world.

but

- A limited number of nations own most of the large and exchangeable instruments
- The availability of the more sophisticated and most capable instruments is very limited
- Technical support, insurance and scheduling are crucial issues for exchange of instruments

Influence of EU funded projects on national ship time



average 900 days/year of ship time for EU projects (14 ships)

> 80% of ship time for EU projects is funded by national bodies!

Conclusion:

The national funding bodies, not the EU, will have to generate European RV fleet integration

Existing partnerships, in particular OFEG, to take the lead for the Ocean and Global Class RV fleet

OFEG as a virtual European RV Fleet and Equipment Pool, to maintain the much-praised flexibility and exchange of know-how, and guarantee an optimal mix of large and medium sized vessels

together with a range of ROVs, and heavy exchangeable equipment.













Present OFEG fleet

L'ATALANTE	85	France	PELAGIA	66	Netherlands
LE SUROIT	56	France			
POURQUOI PAS?*	105	France	G.O. SARS*	77	Norway
THALASSA	74	France /	JAN MAYEN	64	Norway
		Spain	JOHAN HJORT	64	Norway
ALKOR	55	Germany	GARCIA DEL CID	47	Spain
HEINCKE	55	Germany	HESPERIDES	82	Spain
MARIA S. MERIAN*	95	Germany	SARMIENTO DE GAM	BOA	* 70 Spain
METEOR	98	Germany			
POLARSTERN	118	Germany	DISCOVERY	90	UK
POSEIDON	61	Germany	JAMES CLARK ROSS	99	UK
SONNE	98	Germany	JAMES COOK*	90	UK

OFEG fleet - 10 Global Class - 90% of European GC Fleet

21 RVs - 8 Ocean Class - 53% of European OC Fleet

6 countries - 3 Regional Class - 15% of European RC Fleet

^{*} newly built < 3 years old













OFEG (Ocean Facilities Exchange Group) recently increased with 2 new members, CSIC, Spain and IMR, Norway, bringing in 6 research ships

All OFEG members, except NIOZ run multiple fleets - totalling 22 of 26 Ocean and Clubal Class ships in Europe, including most heavy equipment

OFEG may be considered as a premature UNOLS, but, with one important disparity: no central, European funding.













Hopefully this might change in the near future

On the way to integration harmonization and interoperability are an essential first step

On 23 April an OFEG delegation had a first meeting with the European Commission in Brussels to discuss the possibility of EU funding for interoperability issues and trans-national operational teams.





L'Atalante



Alkor



Ifremer





James Cook



G.O.Sars





Discovery



Heincke







Poseidon

Meteor



Questions??

Pourquoi Pas?

Pelagia



James Clark Ross



Hesperides

Sonne



Le Suroit

Thalassa