



Regular updates of the EVIOR portal

11 April 2016 – Version 2

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European research fleets

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1. Introduction

The objectives of EUROFLEETS2 WP4 Task 4.3 Subtask 1 are to improve information sharing on planned, current and completed cruises and on details of ocean-going research vessels and specialised equipment owned by the EUROFLEETS2 beneficiaries, to enhance awareness of opportunities among the beneficiaries, and to durably improve cost-effectiveness of cruises. Therefore the WP4 partners maintain the population of databases as part of the European Virtual Infrastructure in Ocean Research (EVIOR). These databases concern:

- Research vessels, maintained by EurOcean with input of RV operators
- Cruise Programmes, maintained by BODC and MARIS with input of RV operators
- Cruise Summary Reports, maintained by BSH and MARIS with input from the SeaDataNet NODC's
- European Large Exchangeable Instruments, maintained by EurOcean with input of research institutes

These operations are continued from the previous EUROFLEETS project in which the initial EUROFLEETS Integrated Information Portal has been developed and launched mid March 2010. In May 2013, this has been upgraded to the European Virtual Infrastructure in Ocean Research (EVIOR) which is operational since.


The EVIOR portal can be found at the EUROFLEETS main website: <http://www.eurofleets.eu>.

This progress report gives an overview of the activities undertaken for populating and maintaining the infobases and the results achieved in the period up to M36 (February 2016). It also gives an overview of the usage of the portal by various users.

2. Modules of the EUROFLEETS European Virtual Infrastructure in Ocean Research - EVIOR

The EUROFLEETS European Virtual Infrastructure in Ocean Research - EVIOR portal can be found from the EUROFLEETS main website: <http://www.eurofleets.eu>



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 **Eurofleets 2**

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- Training Activities
- European Virtual RV Platform**
- EUROFLEETS2 Products
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European Virtual RV Platform expanded with modules for a Generic Cruise Planning System and for Dynamic Vessel Tracking & Events System

16/05/2013

A generic cruise planning system will facilitate a more efficient and harmonised planning and improved flow of programme information from operators to the Cruise Programme database. Therefore a DEMONSTRATOR of such a Eurofleets generic cruise planning system has been developed and launched. The main aim of the DEMONSTRATOR is to show the features that can be offered by such a cruise planning system. As example, cruises funded in the framework of the Eurofleets Transnational Access Activities (TNA) have been considered, and the results after the planning processes can be consulted. It is an ultimate goal of Eurofleets to establish a common system for giving e-access to underway and operational information and data from sailing research vessels. A first step has been undertaken in analysing and exploring the options by developing and launching a PROTOTYPE Dynamic Vessel Tracking & Events System. It gives dynamic charts of the momentary position and sailing tracks of selected RVs with position, speed, and bearing as well as 24 hour Ship Summary Reports (SSR) by clicking on any position of the vessel track; the SSR includes options to retrieve the event logs for the fixed instruments on board of the RVs.

Visit the EUROFLEETS Integrated Information Portal

The Eurofleets project has developed the **European Virtual Infrastructure in Ocean Research (EVIOR)** by way of an integrated information portal, providing up-to-date information about research vessels (RV), cruise programmes, completed cruises and special equipment. This portal is operational and maintained since March 2010 with in 2012 an expansion with large equipment information. In 2013 two more services have been added by means of a Generic Cruise Planning System and for Dynamic Vessel Tracking & Events System. The portal development did not start from scratch, but it integrates and upgrades a number of existing database modules from the SeaDataNet pan-European marine and ocean data management infrastructure, EurOcean and POGO - Partnership for Observation of the Global Oceans.

Intro to the EUROFLEETS EVIOR portal at the EUROFLEETS website

The EUROFLEETS main website gives a menu option to the EVIOR portal and an introductory page to present the EVIOR portal and its modules. The **European Virtual Infrastructure in Ocean Research (EVIOR)** has been implemented by way of an integrated information portal, providing up-to-date information about research vessels (RV), cruise programmes, completed cruises and special equipment. This portal is operational and maintained since March 2010 with in 2012 an expansion with large equipment information. In 2013 two more services have been added by means of a Generic Cruise Planning System and for Dynamic Vessel Tracking & Events System. The portal development did not start from scratch, but it integrates and upgrades a number of existing database modules from the SeaDataNet pan-European marine and ocean data management infrastructure, EurOcean and POGO - Partnership for Observation of the Global Oceans.

Clicking on the **"Visit the EUROFLEETS Integrated Information Portal"** leads to the main menu of the EVIOR portal as given below.



Eurofleets

Towards an Alliance
of European Research Fleets



European Virtual Infrastructure in Ocean Research (EVIOR)



Sharing information on planned, current and completed cruises and on details of European research vessels and specialized equipment
Giving e-access to underway events information, sailing tracks and current position of European research vessels

Main menu of the EVIOR portal

The EVIOR portal gives access to the following 4 main infobases:

- **Research Vessel Cruise Programme** database, containing planned cruises per research vessel and owner/operator.
- **Research Vessel** database, containing characteristics of each research vessel, owner/operator contact details and, if available, a link to the ship's web page.
- **Cruise Summary Reports (CSR)** database, containing details of completed cruises and providing a first level inventory of oceanographic measurements made and samples taken during the cruises
- **European Large Exchangeable Instruments (LEXI)** database, containing characteristics of twenty seven categories of instruments, including the previous LEXI – large Exchangeable Instruments InfoBase and the UV - European Underwater Vehicles InfoBase

In addition it gives access to:

- **Prototype for a Dynamic Vessel Tracking & Events System**
- **Generic Cruise Planning System**

This Deliverable D4.42 reports about the population of the 4 main infobases till M36.

3. Population, maintenance and usage of the Cruise Programme database

This database contains planned cruises per research vessel and owner / operator. Entries are to be collated from vessel operators and managed by BODC (contact: Louise Darroch atl@bodc.ac.uk) subcontractor to MARIS in EUROFLEETS 2, while the database is technically managed and operated by MARIS.

The Cruise Programme database was developed and launched with instructions and user manual for metadata collection/update by beneficiaries early 2010 and distributed to beneficiaries together with a template spreadsheet to be completed with cruise programme information. In 2015 an update has taken place by adopting the new version of the SeaDataNet Controlled Vocabularies (NVS2.0). The information required for the Research Vessel Cruise Programme Database is summarised below.

Research Vessel Cruise Programme Database Fields

Information requested	Vocabulary	Mandatory?	Comments
ICES Ship Code	C17	Mandatory	Provided on the list of research vessels and contacts
Cruise name/number		Mandatory	
Ship Operator	EDMO	Mandatory	Select entry from EDMO (e.g. EDMO Record Id)
Country of Ship Operator	C32	Mandatory	Select entry from vocabulary (e.g. BE = Belgium)
Departure Port	C38	Mandatory	Select entry from vocabulary (e.g. BSH118 = Lisbon)
Arrival Port	C38	Mandatory	Select entry from vocabulary
Departure Date		Mandatory	Year, month, day (YYYY-MM-DD)
Arrival Date		Mandatory	Year, month, day (YYYY-MM-DD)
Specific Area		Mandatory	Brief description of area to be visited
General Area	C16		These are based on IHB Sea Areas, but with some extensions for SeaDataNet (e.g. 28C = Strait of Sicily).
General Area 2	C16		
General Area 3	C16		
General Area 4	C16		
Latitude (most southerly)		Mandatory	Most southerly latitude (dd[.dd]) between +90 and -90. Latitudes south of the equator are negative.
Latitude (most northerly)		Mandatory	Most northerly latitude (dd[.dd]) between +90 and -90. Latitudes south of the equator are negative.
Longitude (most westerly)		Mandatory	Most westerly longitude (ddd[.dd]) between +180 and -180. Longitudes west of zero are negative
Longitude (most easterly)		Mandatory	Most easterly longitude (ddd[.dd]) between +180 and -180. Longitudes west of zero are negative.
General Discipline 1	P08		Select entry from vocabulary (e.g. DS01 = biological oceanography)
General Discipline 2	P08		Select entry from vocabulary
Chief Scientist name		Mandatory	
Chief scientist e-mail			
Organisation of Chief Scientist	EDMO		Select entry from EDMO (e.g. EDMO Record Id)
Funding Agency 1	EDMO	Mandatory	Select entry from EDMO (e.g. EDMO Record Id)
Funding Agency 2			
Proposal ID			
Project			Name and acronym of main project or experiment with which the cruise is associated (e.g. CLIVAR, RAPID, IMBER)
Subsidiary project 1			Other project or experiment associated with the cruise

Subsidiary project 2			Other project or experiment associated with the cruise
Berths Available	Y, N, U	Mandatory	Choose from Yes (Y), No (N) or Unknown (U)
Link to other relevant web sites 1			e.g. cruise or project website if available
Link to other relevant web sites 2			e.g. cruise or project website if available
Cruise Objectives			Any other relevant information, e.g. brief summary of cruise objective
Cruise status	L14	Mandatory	Use terms from L14 mapped as follows: PO = Scheduled; OP = Current; IA = Completed; CA = Cancelled
Planned cruise track			Name of image file showing planned cruise track if available (gif, jpg, jpeg)

Table: Metadata fields for Cruise Programme database

As far as possible the database has built on the work already carried out for the Partnership for Observation of the Global Ocean (POGO) and utilises the European Directory of Marine Organisations (EDMO) and common vocabularies developed and maintained by the EU FP6 - FP7 SeaDataNet projects.

In early 2010, beneficiaries were requested for the first time to provide the information required using a spreadsheet template. Alternatively provision was made for the information to be entered manually into an online Content Management System (CMS). Ever since each year updates are requested from the RV operators, giving a choice of both options. This has also resulted in a number of RV operators asking for an online account to the Cruise Programme online CMS to enter their entries themselves, while others make use of the spreadsheet template. The current status for the cruise programme database is given below:

Country	Research Vessels	2010	2011	2012	2013	2014	2015	2016
Belgium	Simon Stevin	0	0	0	0	0	6	0
	Belgica	40	38	37	38	36	36	27
Denmark	Dana	0	0	0	0	0	3	3
Estonia	Salme	0	5	0	0	0	0	7
Finland	Aranda	0	0	0	0	0	10	12
France	Pourquoi pas?	11	12	9	0	8	7	0
	L'Atalante	5	8	9	0	7	7	0
	Le Suroit	5	4	5	1	4	4	0
	Marion Dufresne	5	3	6	0	0	1	0
	Thalassa	8	3	9	0	6	6	0
Germany	Sonne	1	6	8	11	7	2	20
	Polarstern	8	9	9	14	10	8	14
	Poseidon	0	16	20	21	0	0	30
	Walther Herwig III	0	10	11	10	0	0	22
	Maria S. Merian	0	0	12	13	8	5	22
	Meteor	1	13	16	15	0	7	24
	Heincke	0	29	21	20	0	19	42
Greece	Aegaeo	21	10	12	0	0	7	10

Iceland	Arni Fridriksson	0	0	0	0	0	0	0
	Bjarni Saemundsson	0	0	1	1	0	0	0
Ireland	Celtic Explorer	17	17	16	17	19	16	16
	Celtic Voyager	25	33	29	21	19	29	46
Italy	G. Dallaporta	0	23	0	0	0	0	0
	OGS Explora	5	0	1	0	0	0	0
	Urania	0	21	0	0	24	11	2
Netherlands	Pelagia	8	17	11	19	10	10	4
Norway	Jan Mayen	0	3	0	0	0	0	0
	Johan Hjort	0	16	11	0	0	12	10
	Johan Ruud	0	0	0	0	0	0	2
	Libas	0	0	0	0	0	0	0
	Lance	0	0	12	0	0	0	0
	Eros	0	0	0	0	0	0	0
	Helmer Hanssen	0	0	10	0	0	0	3
	G. M. Dannevig	0	0	0	0	0	35	17
	G.O. Sars	0	17	19	1	0	18	19
	Haakon Mosby	0	0	0	0	0	25	15
	Dr. Fridtjof Nansen	0	0	0	0	0	0	13
Poland	Oceania	11	16	18	18	16	19	16
Portugal	D. Carlos I	0	0	0	1	3	4	3
	Auriga	0	0	6	7	3	0	3
	Almirante Gago Coutinho	0	0	2	2	2	4	3
	Andromeda	0	0	5	6	3	3	5
Romania	Mare Nigrum	5	9	9	0	0	9	0
Spain	Ramon Margalef	0	0	0	0	0	18	22
	Sarmiento de Gamboa	9	16	7	0	0	5	0
	Angeles Alvarino	0	0	0	0	0	14	23
	Hesperides	8	7	3	0	0	7	0
	Francisco De Paula Navarro	0	0	0	0	0	10	11
Sweden	Unknown	0	0	2	0	0	0	0
	Argos	19	0	0	0	0	0	0
	KBV 001 Poseidon	0	0	11	0	0	0	0
Turkey	Bilim-2	11	16	13	1	0	0	0
United Kingdom	Cefas Endeavour	0	0	0	17	16	13	15
	Alba Na Mara	0	0	0	0	4	2	1
	Discovery	7	10	6	0	2	10	8

	Ernest Shackleton	0	0	0	0	0	0	0
	James Clark Ross	2	0	0	0	1	4	5
	James Cook	4	8	6	0	5	13	5
	Scotia	0	15	10	0	3	4	3
Totals		236	410	392	254	216	423	503

Table: Cruise Programme Status since 2010 where the 'Year' is the year of cruise departure

The total number of cruises in the Cruise Programme Database, including information provided via the POGO International Cruise Information System prior to the EUROWLEETS project, has increased in the last year from 2650 to now 3125; the breakdown is shown below.

Cruise Programme Status - total number of cruises by year

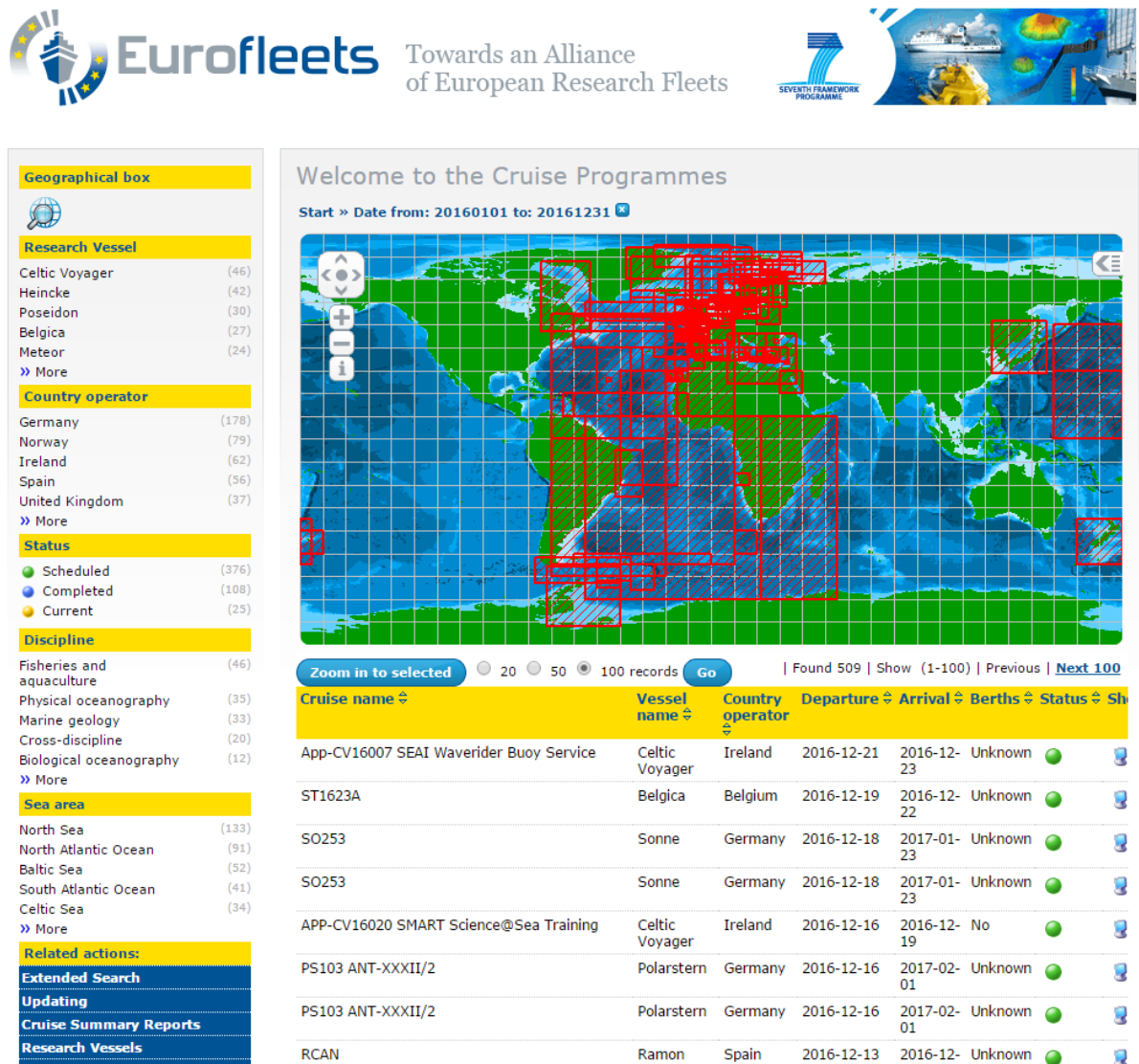
2007 - 224 cruises
 2008 - 249 cruises
 2009 - 218 cruises
 2010 - 236 cruises
 2011 - 410 cruises
 2012 - 392 cruises
 2013 - 254 cruises
 2014 - 216 cruises
 2015 - 423 cruises
 2016 - 503 cruises

Country	No. of Cruises
Belgium	372
Denmark	6
Estonia	12
Finland	39
France	212
Germany	610
Greece	60
Iceland	20
Ireland	355
Italy	98
Netherlands	125
Norway	414
Poland	114
Portugal	65
Romania	32
Spain	198
Sweden	87
Turkey	41
United Kingdom	265

Table: Cruise Programme Status - total number of cruise programmes by country since 2007

Routine activities include continuing to chase up outstanding cruise programmes, responding to beneficiaries' questions and queries, ensuring that also the research vessel information is kept up to date and encouraging submission of also Cruise Summary Reports.

The following images give illustrations of the Cruise Programme database search dialogue.



Welcome to the Cruise Programmes

Start » Date from: 20160101 to: 20161231

Zoom in to selected 20 50 100 records Go | Found 509 | Show (1-100) | Previous | Next 100

Cruise name	Vessel name	Country operator	Departure	Arrival	Berths	Status	Sh
App-CV16007 SEAI Waverider Buoy Service	Celtic Voyager	Ireland	2016-12-21	2016-12-23	Unknown	●	
ST1623A	Belgica	Belgium	2016-12-19	2016-12-22	Unknown	●	
SO253	Sonne	Germany	2016-12-18	2017-01-23	Unknown	●	
SO253	Sonne	Germany	2016-12-18	2017-01-23	Unknown	●	
APP-CV16020 SMART Science@Sea Training	Celtic Voyager	Ireland	2016-12-16	2016-12-19	No	●	
PS103 ANT-XXXII/2	Polarstern	Germany	2016-12-16	2017-02-01	Unknown	●	
PS103 ANT-XXXII/2	Polarstern	Germany	2016-12-16	2017-02-01	Unknown	●	
RCAN	Ramon	Spain	2016-12-13	2016-12-13	Unknown	●	


Figure: Cruise Programme database –search for cruises in 2016

The next image gives the details of a selected Cruise Programme entry. It contains various hyperlinks to retrieve:

- More information about the Research Vessel from the EUROFLEETS RV database by Shipcode and Vessel name
- More information about the Ship Operator from the SeaDataNet EDMO (European Directory of Marine Organisations) database
- More information about the Chief Scientist Organisation from the SeaDataNet EDMO database

- More information from the Funding Organisation from the SeaDataNet EDMO database
- More information about Cruise Summary Reports of the Research Vessel from the EUROFLEETS Cruise Summary Reports database

Geographical box



Research Vessel

Celtic Voyager (46)

Heincke (42)

Poseidon (30)

Belgica (27)

Meteor (24)

[» More](#)

Country operator

Germany (178)

Norway (79)

Ireland (62)

Spain (56)

United Kingdom (37)

[» More](#)

Status

● Scheduled (376)

● Completed (108)

● Current (25)

Discipline

Fisheries and aquaculture (46)

Physical oceanography (35)

Marine geology (33)

Cross-discipline (20)

Biological oceanography (12)

[» More](#)

Sea area

North Sea (133)

North Atlantic Ocean (91)

Baltic Sea (52)

South Atlantic Ocean (41)

Celtic Sea (34)

[» More](#)

Related actions:

[Extended Search](#)


[Updating](#)

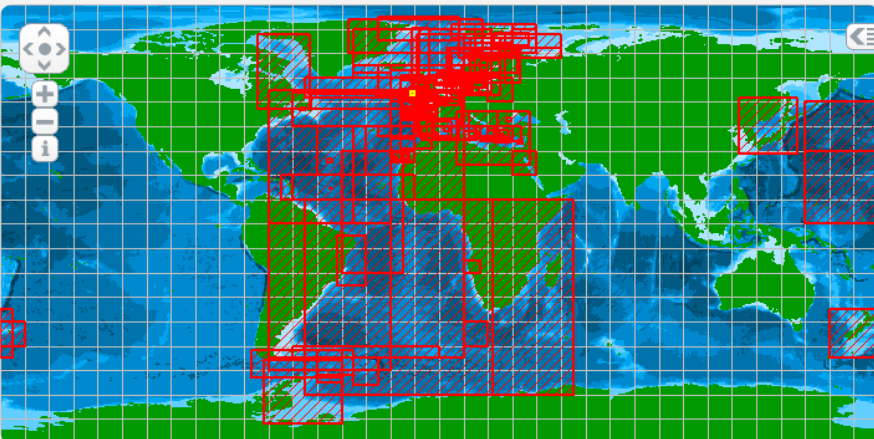
[Cruise Summary Reports](#)

[Research Vessels](#)

[Large Expendable Instruments](#)

Welcome to the Cruise Programmes

Start » Date from: 20160101 to: 20161231 



| [Results](#) | Found 509 | Show 1 | [Previous](#) | [Next](#)

Details

Input date	3/1/2016 11:17:02 AM
Cruise name	App-CV16007 SEAI Waverider Buoy Service
Status	Scheduled
Shipcode	45CV
Vessel name	Celtic Voyager
Ship operator	Marine Institute
Country operator	Ireland
Departure	2016-12-21
Arrival	2016-12-23
Berths	Unknown
Departure port	Galway
Arrival port	Galway
Sea area	Atlantic Ocean
Latitude1	52.538
Latitude2	54.319
Longitude1	-11.475
Longitude2	-10.292
Discipline	Physical oceanography
Chief scientist name	Mr Alan Berry

Figure: Cruise Programme database –Detailed factsheet for one planned cruise

Usage of the Cruise Programme database

The Cruise Programme database service was launched in March 2010 and user statistics are maintained using AW Stats. The following table gives the number of users and visited pages since March 2010. This also includes the related Cruise Summary Reports database service.

Year	Unique visitors	Number of visits	Pages	Hits	Bandwidth (MB)
2010	377	627	16,568	43,974	233.36
2011	520	769	23,837	55,917	356.42
2012	848	1,186	35,712	75,864	425.39
2013	1,309	2,815	38,874	73,820	1,710.00

2014	1,314	2,028	19,270	39,047	892.79
2015	972	1,545	36,268	63,909	1,700.00
2016*	284	369	10,607	18,981	250.63
TOTAL	5624.00	9,339.00	181,136.00	371,512.00	5,568.59

* Status on 31 March 2016

Table: Web statistics for the Cruise Programme and Cruise Summary Reports databases

4. Population and maintenance of the Cruise Summary Reports database

The Cruise Summary Reports (CSR) database contains details of completed cruises and provides a first level inventory of oceanographic measurements made and samples taken during the cruises. It is managed as a SeaDataNet Directory by BSH from Germany, who is subcontractor to MARIS in EUROFLEETS2.

In the first EUROFLEETS project a dedicated version of the CSR User Interface has been developed in a cooperation between MARIS and BSH. The EUROFLEETS CSR database is updated automatically by web service from the SeaDataNet CSR database which serves as master containing also many historical reports. The EUROFLEETS CSR database contains entries from 2005 onwards. In 2015 activities were undertaken in EUROFLEETS to upgrade the CSR database, import and user interface to using the new SeaDataNet vocabularies (NVS2.0).

The maintenance of the CSR database is done following the current SeaDataNet practice. The Chief Scientist of a cruise must report a Cruise Summary Report (CSR) immediately after the cruise.

There are 2 routes to submit new CSR entries, depending on the country:

- In a number of European countries Chief Scientists of research cruises are requested to report CSR's to their National Oceanographic Data Centre (NODC) directly after the cruise, using a local system. The NODC will then make sure that the CSR's are included in the overall SeaDataNet CSR database. The list of European NODC's can be found at: <http://eurofleets.maris2.nl/csr-list-nodcs.html>
- in other countries the Chief Scientists of research cruises are requested to report CSR directly themselves via the online CSR Content Management System (CMS).

The Cruise Summary Report database currently contains the following content:

Year	No. of Cruise Summary Reports	No. of countries
2005	737	23
2006	843	26
2007	995	25
2008	1406	24
2009	1436	26
2010	1622	24
2011	1024	25
2012	877	24
2013	873	24
2014	766	24
2015	538	17

2016	27	6
------	----	---

Status 31 March 2016

Table: Number of Cruise Summary Reports – 31 March 2016

The overview per country of ship per year is given in the following Table.

country	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Albania	0	0	0	0	2	0	0	0	0	0	0	0
Belgium	52	71	70	77	90	102	99	34	29	9	3	0
Bulgaria	5	5	0	0	17	0	0	6	5	7	0	0
Croatia	15	28	19	19	12	13	17	21	18	14	26	0
Cyprus	11	1	2	6	8	6	6	5	2	1	0	0
Denmark	0	6	5	17	39	40	29	30	28	27	26	2
Estonia	0	0	0	0	0	46	39	38	27	39	29	0
France	192	204	213	257	196	237	217	209	215	205	210	2
Germany	130	144	143	117	74	96	121	142	133	126	95	4
Greece	4	8	12	1	0	0	2	8	2	3	0	0
Iceland	5	4	5	4	4	4	4	4	4	3	1	0
Ireland	37	48	49	58	59	52	59	49	42	42	24	0
Israel	5	4	3	4	1	1	2	3	0	0	0	0
Italy	16	6	15	18	8	4	1	6	7	7	0	0
Latvia	7	13	14	13	5	2	1	1	1	1	1	0
Lithuania	4	4	72	424	441	537	37	2	15	19	2	0
Netherlands	8	8	13	12	15	27	23	13	17	9	4	0
Norway	45	58	43	57	68	58	59	64	64	75	64	13
Poland	0	4	6	3	6	9	5	11	6	7	6	1
Portugal	0	0	1	0	0	1	1	0	12	5	3	0
Romania	5	8	9	11	5	5	4	3	2	3	0	0
Russian Federation	14	2	0	0	3	4	5	0	0	0	0	0
Slovenia	0	13	64	25	34	34	34	34	36	33	0	0
Spain	25	39	36	53	47	54	54	52	72	67	12	0
Sweden	39	52	43	43	52	52	49	53	34	27	22	5
Tunisia	5	5	2	3	2	0	0	0	0	0	0	0
Turkey	10	5	8	14	26	27	30	5	31	29	0	0
Ukraine	1	1	5	2	3	0	0	0	0	0	0	0
United Kingdom	102	102	143	168	219	211	126	84	71	8	10	0
Totals	737	843	995	1406	1436	1622	1024	877	873	766	538	27

Table: Number of Cruise Summary Reports per country per year

Welcome to the Cruise Summary Reports

Search

Free search

Country of ship

Date (yyyy-mm-dd) from to

Ship(s)

Project

Cruise name/nr

Discipline

Ports

Country of institute

Oceans/Sea area(s)

Data type(s)

Institute(s)

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[Search](#) [Reset](#)

Cruise Summary Reports database –User Interface

Welcome to the Cruise Summary Reports

Search results

20 50 100 records [Go](#) | [Refine query](#) | [New query](#) | Found 8805 | Show (1-20) | [Previous](#) | [Next 20](#)

Platform/Ship Name	Country of ship	Cruise name	From	To	Show
Ramon Margalef	Spain	RADCAN 1307	2013-07-14	2013-07-16	Show
Angeles Alvarino	Spain	ECOTRANS 0713	2013-07-02	2013-07-16	Show
Lotty	Sweden	2013K17	2013-06-27	2013-06-27	Show
Ramon Margalef	Spain	ASIMUTH2013	2013-06-17	2013-06-21	Show
Cornide de Saavedra	Spain	MEDITS_ES_1305_3	2013-06-14	2013-06-28	Show
Johan Hjort	Norway	2013205	2013-06-12	2013-06-28	Show
Ramon Margalef	Spain	RADCAN 201306	2013-06-10	2013-06-12	Show
Belgica	Belgium	2013/17	2013-06-10	2013-06-18	Show
Haakon Mosby	Norway	2013614	2013-06-08	2014-06-10	Show
Angeles Alvarino	Spain	INGRES3-8 / STOCA 2013 06 / ECOBOGUE 0613	2013-06-06	2013-06-14	Show

Cruise Summary Reports database –Result of search for all CSR entries



Welcome to the Cruise Summary Reports

Details

| [Refine query](#) | [New query](#) | [Results](#) | Found 3851 | [Show 1](#) | [Previous](#) | [Next](#)

Details of 2011209 (BSH20113211)

General Information

Platform/Ship	Johan Hjort
Cruise name	2011209
Cruise begin	2011-06-16
Cruise end	2011-06-21
Port of departure	Bodø
Port of return	Bergen
Chief Scientist(s)	Dr. Erling Kaare Stenevik - Institute of Marine Research
Responsible Laboratory	Institute of Marine Research
Country	Norway

Location

General Ocean Areas	Norwegian Sea			
Marsden squares (S,N,E,W)	251 (60.0, 70.0, 10.0, 20.0) 252 (60.0, 70.0, 0.0, 10.0)			
Bounding Box(es)	South	West	North	East
	60	0	70	10
	60	10	70	20

Specific Geographic Areas Norwegian shelf

Objectives

Description Study the abundance and distribution of postlarval Norwegian spring spawning herring and their predators on the Norwegian shelf and in selected fjords.

Additional information

Parameters measured Acoustic reflection on marine organisms.
Ammonia
CTD stations
Eggs and larvae
Nitrate
Nitrite
Pelagic fish
Phosphate
Phytoplankton pigs (eg chlorophyll, fluorescence)
Routine standard measurements

Cruise Summary Reports database –Details of a selected CSR entry

5. Population, maintenance and usage of the Research Vessels database

The European Research Vessel InfoBase, launched in 2006, is managed by EurOcean and contains characteristics of each research vessel (RV), owner/operator contact details and, if available, a link to the ship's web page. For EUROFLEETS a dedicated version of the European Research Vessels InfoBase has been developed by EurOcean at <http://www.eurofleets.eu/rvs/>.

The EUROFLEETS European Vessel Database module of the European Virtual RV Platform was launched by EurOcean on March 5th 2010. Currently it contains information on: 309 Operating Research Vessels and 60 Out of Service, larger than 10 meters (from the coastal to high seas). Additionally the Database provides information of owner/operator contact details and, if available, a link to the ship's web page. The available information can be accessed by using a set of drop-down menus (Vessel Name; Vessel Category; Country; Length; Main Activity and Availability for charter) as well as, through a dedicated query link by using a research vessel ICES Shipcode.

The European Research Vessel InfoBase is regularly updated by the RV operators/owners either by a dedicated request addressed to the EurOcean Office, or by direct update by filling-in an electronic form available through the homepage (<http://www.rvinfobase.eurocean.org/>). All requested updates are however only made public after validation by EurOcean Team, the InfoBase manager and master editor.

Even though the InfoBase is continuously updated, EurOcean releases an annual update request to all the RV operators/owners as to guarantee the relevance of the InfoBase information. As a result of the undertaken activities, 181 RV operators/owners, including the planned/under construction RV's (not available in the EUROFLEETS European Vessel Database) were last contacted on May 29th 2015, which turned in information updates of 5 of the 22 EUROFLEETS vessels (circa 22.7%), and 37 of the 309 remaining Infobase RV's (circa 12%), as showed in the Table below.

Update Status	EUROFLEETS RV's	Remaining Infobase RV's
	Update N.º	Update N.º
2016	0	1
2015	5	36
2014	3	11
2013	2	16

Table: European Research Vessel InfoBase update status of the operating and out of service RV per Year for the period of the EUROFLEETS Project (2013-2016).

Due to the nature of the infrastructures, most updates are related to the contact of the vessel operator/owner and therefore, even if no update is made after the inclusion of the vessel in the InfoBase the vessel available information can be updated.

Usage of the EUROFLEETS Research Vessel database

For the given date the InfoBase registered a total of 5015 Visits, since the beginning of the project. In the chart below it is possible to establish a correlation between the visits picks and the launch of EUROFLEETS calls and the update request.

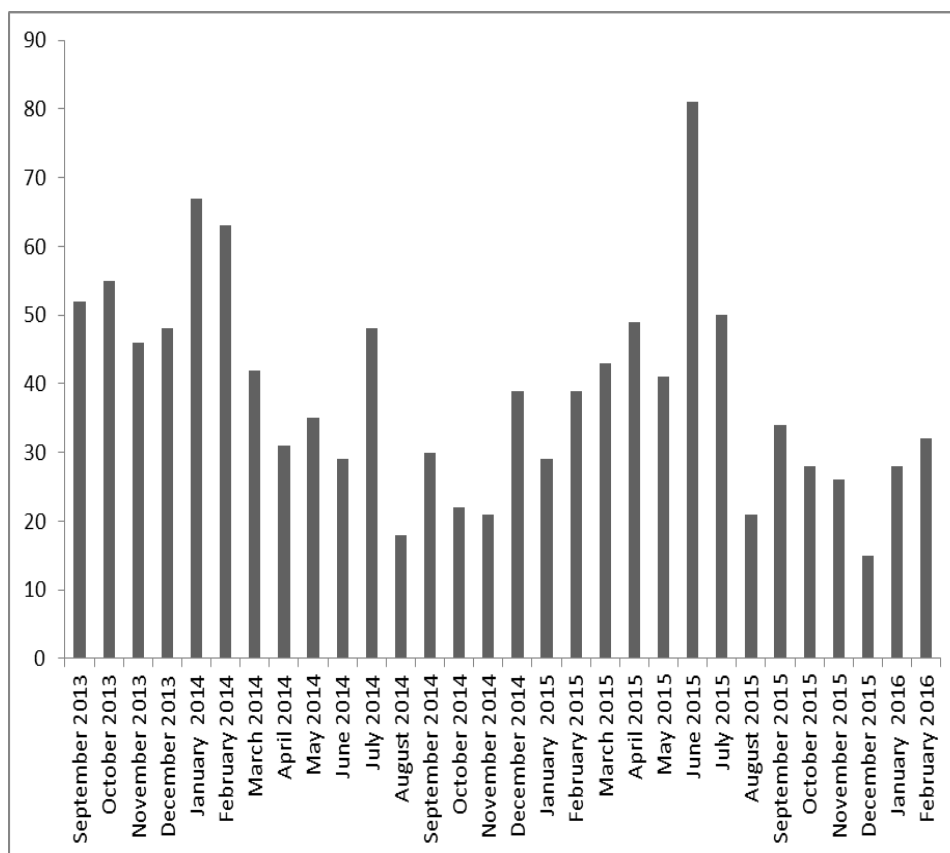


Figure: Monthly evolution of the unique page views of the EUROFLEETS European Vessel Database Module



Eurofleets European Vessel Database



This directory is a searchable database of European research vessels. Operators/managers can enter/update their research vessels [online](#). Please contact the [helpdesk](#) for an account.

[Cruise Programmes database](#)

[Cruise Summary Reports database](#)

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Operating RVs

Prepare your query with a combination of the following criteria:

<input type="text" value="[Vessel Name]"/>	<input type="text" value="[Vessel Category]"/>
<input type="text" value="[Country]"/>	<input type="text" value="[Length]"/>
<input type="text" value="[Main Activity]"/>	<input type="text" value="[Available for charter]"/>
<input type="text" value="Operating RVs"/>	<input type="button" value="reset"/> <input type="button" value="search"/>

Search results Your search has returned 264 vessels.

[Print PDF](#)

Vessel Name	Country	Category	Length
Aade	Germany	Local/Coastal	12.50 m
Actinia	United Kingdom	Local/Coastal	10.85 m
Aegaeo	Greece	Oceanic	61.50 m
Águas Vivas	Portugal	Local/Coastal	11.00 m
Akademik	Bulgaria	Oceanic	55.50 m
Akademik A. Karpinsky	Russia	Global	104.50 m
Akademik Ioffe	Russia	Global	117.10 m
Akademik Lazarev	Russia	Global	81.80 m
Akademik Mstislav Keldysh	Russia	Global	122.20 m
Akademik Nemchinov	Russia	Global	84.00 m

Research Vessel database –User Interface for searching Research Vessels



Eurofleets European Vessel Database



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[Pourquoi pas?](#)

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Status Operating
Main activity Multiple activities
Operating area --
Country France
ICES code 35PK
NODC code
Call sign FMCY
Year built 2005
Homeport
Length 107.60 m
Avail. for charter No
Last update 15.06.2007

This directory is a searchable database of European research vessels. Operators/managers can enter/update their research vessels [online](#). Please contact the [helpdesk](#) for an account.

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Contact Information

Owner Institut français de recherche pour l'exploitation de la mer (IFREMER)

Operator IFREMER / GENAIVR BREST

Contact person Jean Xavier Castrec

Address Centre IFREMER de Brest, BP 71

29280 PLOUZANE

France

Telephone +33 298 224453

Fax

Website <http://www.ifremer.fr/flotte/navires/hauturiers/pourquoipas/index.htm>

Email jean.xavier.castrec@ifremer.fr

Observations --

Technical Details

Main Dimensions

Length 107.60

Draft (m) 6.9

Main Vessel Activity

Main Activity Multiple activities

Operating area --

Research Vessel database –Details of a Research Vessel

6. Population, maintenance and usage of the European Large Exchangeable Instruments database

The European Large Exchangeable Instruments, launched in November 24th 2011, is managed by EurOcean and contains characteristics of twenty seven categories of instruments, included in the previous EurOcean_LEXI – Large Exchangeable Instruments InfoBase and the EurOcean_UV - European Underwater Vehicles InfoBase. For EUROFLEETS a dedicated version of the European Large Exchangeable Instruments InfoBase has been made operational by EurOcean at <http://www.eurofleets.eu/lexi/>.

The EUROFLEETS European Large Exchangeable Instruments Database module of the European Virtual RV Platform, launched by EurOcean, was integrated in the European Virtual RV Platform on March 18th 2012. Presently it contains information on 152 (instruments as well as information of owner/operator contact details and, if available, a technical details document. The available information can be accessed by using a number of pull-down menus (Free Text; Type of Instrument; Country and Depth Range).

Similarly to the RV's InfoBase, the LEXI InfoBase it is regularly updated by the instrument operators/owners either by a dedicated request addressed to the EurOcean Office or, by direct update by filling-in an electronic form available through the InfoBase homepage (http://www.lexiinfobase.eurocean.org/insert_uv.jsp?new=t). All requested updates are however only made public after acceptance by EurOcean Office, the InfoBase manager and master editor.

Even though the InfoBase is continuously updated, EurOcean releases an annual update request to all the instrument operators/owners as to guarantee the relevance of the InfoBase information. As a result of the undertaken activities, 75 operators/owners were contacted on May 29th 2015, which translated in information updates 7 of the 150 instruments (circa 4,7%).

Usage of the EUROFLEETS Large Exchangeable Instruments database

The EUROFLEETS Large Exchangeable Instruments database registered, for the given period, 1162 in the chart below it is possible to visualise the monthly evolution of the InfoBase.

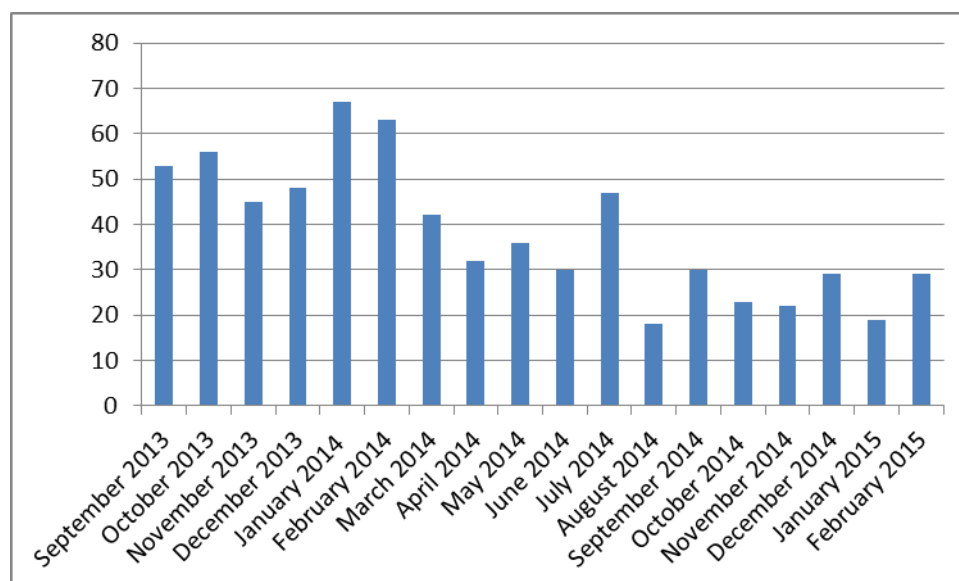


Figure: Monthly evolution of the unique page views of the EUROFLEETS large Exchangeable Instruments Module

[< Back to Eurofleets homepage](#)

Towards an Alliance of European Research Fleets



Eurofleets European Large Exchangeable Instruments



This directory is a searchable database of Large Exchangeable Instruments used in Europe for Scientific research. Operators/managers can [enter/update](#) their research instruments online or contact the [helpdesk](#).

[Cruise Programmes database](#)

[Cruise Summary Reports database](#)

[Research Vessels database](#)

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Prepare your query with a combination of the following criteria:

[Free text search]

[Type of instrument]

[Country]

[Depth range]

[reset](#)

[search](#)

Search results Your search has returned 118 instruments.

[Print PDF](#)

Name	Type of instrument	Country	Depth
ABYSS	Autonomous underwater vehicle	Germany	6000
Argus	Manned submersibles	Russia	600
ASTERx	Autonomous underwater vehicle	France	3000
Autosub	Autonomous underwater vehicle	United Kingdom	1600
Autosub6000	Autonomous underwater vehicle	United Kingdom	6000
AUV ISR	Autonomous underwater vehicle	Portugal	100
AUV Light	Autonomous underwater vehicle	Portugal	150
AWI-OFOS (Ocean Floor Observation System)	Towed camera systems	Germany	
Bathysaurus	Remote Operated Vehicles	Norway	6000

European Large Exchangeable Instruments Database –User Interface for searching Large Exchangeable Instruments

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Towards an Alliance of European Research Fleets



Eurofleets European Large Exchangeable Instruments



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ABYSS

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Instrument Information and Contact

Name	ABYSS
Owner	Helmholtz Center for Ocean Research (GEOMAR)
Operator	GEOMAR
Type	Autonomous underwater vehicle
Contact person	Klas Lackschewitz
Link Contact Person	klackschewitz@geomar.de
Phone	49 (0)431 600-2132
Address	Wischofstr. 1-3 D-24148 Kiel
Country	Germany
Link Institution	http://www.geomar.de/institut/einrichtungen/technik-und-logi...
Model	Remus 6000
Manufacturer	Hydroid, LLC
Year Built	2008
Last Update	2012/05/17

General Specifications

Lenght (m)	3.84
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European Large Exchangeable Instruments Database–Details of a Large Exchangeable Instrument

7. Conclusions and Recommendations

It can be concluded that the 4 databases are well maintained on a European scale as there is a regular population of database records by a wide number of countries. The operation of these modules has been continued from the previous EUROFLEETS project. It is recommended that the EUROFLEETS2 Executive Committee will keep on urging partners to take care of updating of their entries, next to the maintenance activities by the database managers and their networks. Especially it should be encouraged that operators provide their Cruise Programme information more in advance (at least 6 months) and in more geographic detail to be really of use for shared cruise planning, as aimed for by POGO, and for planning deployment of Argo floats.

The usage of the 4 databases is slowly increasing but still limited in total number of users and pageviews. This should be further improved. The promotion around EUROFLEETS must make more effort to pinpoint target users to EVIOR and these 4 databases. Also the upgrading of the EUROFLEETS website as underway by EurOcean should lead to more users finding their way to the EVIOR and its databases.