

# **Emergency Equipment Recovery- Establishment of an international co-operative approach?**

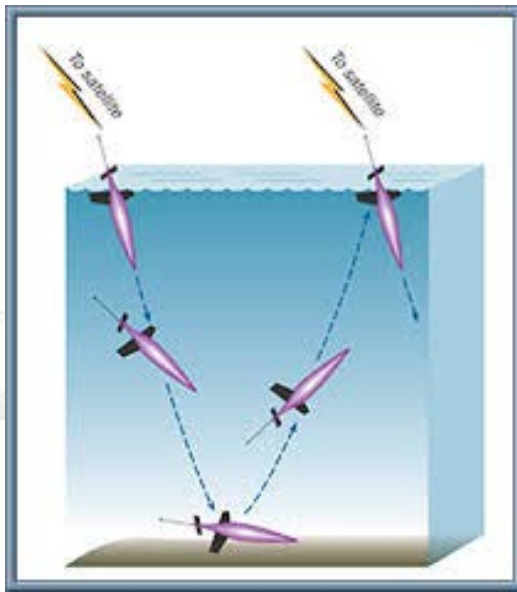
Per W. Nieuwejaar  
Director RV Department

IRSO 2015, La Jolla  
20-23 October 2015

# Background



Glider position  
26 Aug 2015



University of Bergen  
Seaglider

# Recovery process

- 26 Aug 2015 – UoB contacted IMR/RV Dept about drifting glider asking for help to find vessels in the area, or on its way in to the area, NE of Langanes, Iceland
- 26 and 27 Aug 2015 – IMR/RV Dept contacted:
  - RV operators in the area (Iceland, Greenland, Faroes, Denmark and Ireland)
  - OFEG partners (UK, Germany, Spain, Netherlands and France)
  - UNOLS, asking them to distribute the recovery request to its members and their Canadian partners
  - Other Norwegian oceangoing RV operators (University of Tromsø and Norwegian Polar Institute)
  - The Norwegian Coast Guard
  - All European Research Vessel Operator (ERVO) members
  - Norwegian fishing boat owner associations
- Many answers saying "sorry, not in the area", but the Faroe Marine Research Institute answered on 27 August that their R/V Magnus Heinason could be able to pick it up if the glider would drift in their direction and shortening the necessary deviation from their ongoing cruise, but in the end it was not feasible
- The glider was eventually recovered on 5 September by an Icelandic SAR vessel, being paid by UoB to make the recovery



# Proposal from Leigh

E-mail dated 27 August 2015:

I think this sort of request is going to become much more common and we will need to help each other out wherever possible.

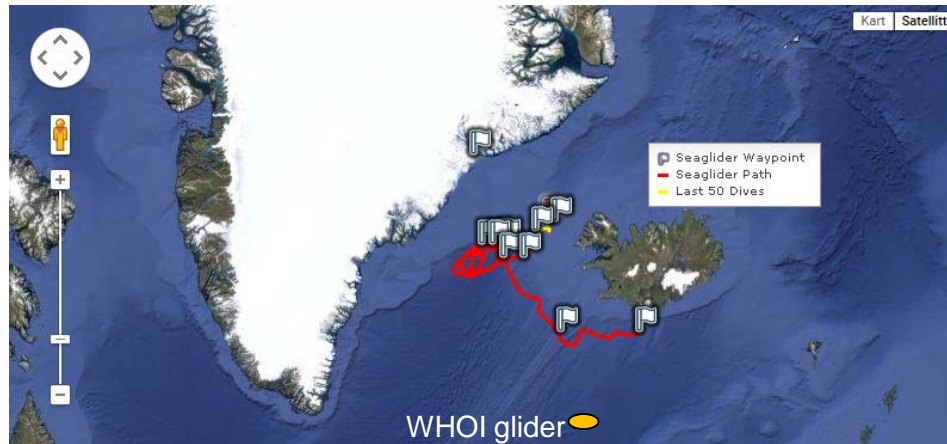
Leigh Storey  
Head National Marine Facilities-Sea Systems



So how do we go about it?



# More gliders to be recovered



## Message from David White at NOC on 21 September:

I am making contact as a result of something you broached at IRSO, passed to me by Leigh Storey, my department head concerning what to do about lost gliders. NOC will be having a good look at this as we have lost more than one glider this year, but our latest possible casualty was being piloted by SAMS (Oban, Scotland) west of Iceland, last position seven days ago was around 66 04N 26 33W. <http://velocity.sams.ac.uk/sg606/> I only have second-hand information but understand this was near your glider? And wondered if our glider groups could share any knowledge that might be helpful? At this stage we are still hoping it will surface before the batteries run out, hoping it might be stuck in fishing gear on the bottom.

## Message from Amy Bower, WHOI on 24 September:

A colleague from Woods Hole Oceanographic Institution recently reached out to ask for help in rescuing a glider that has left the range of their vessel. The glider is currently about 320 miles south of Iceland, 58 N, 22.5 W. The team is in communication with it and can provide more accurate positions if and when a rescue seems possible. It is being tracked with GPS. If you are able to provide assistance, please contact Amy Bower (info below).



## Procedure on rapid response capabilities

04 June 2013 - V1

Grant Agreement n° 228344

Acronym: EUROFLEETS

Title: Towards an alliance of European research fleets

**Activity type: Networking**

**WP N°: 4**

**Task N°: 3**

**Deliverable N°: D4.5**

<http://www.eurofleets.eu/np4/29>

Listed under Deliverables at Month 36

# Report methodology (1)

1. Check Sailwx.info, AIS, etc for RVs in the area of interest



<http://www.sailwx.info/shiptrack/researchships.phtml>

# Marinetraffic.com



**BEITIR**

Flag: Iceland

Ship Type: Fishing Vessel

Length x Breadth: 76m x 13m

Draught: 7.6m

CALL SIGN: TFEE

IMO: 9161950

MMSI: 251022000

Received: 4 h, 45 min ago (AIS Source: 2132)

Status: Underway using Engine

Speed/Course: 10.2kn / 112°

Destination: CH 16 FOR INFO

ETA: -

- Show Vessel's Track
- Distance to...
- Itineraries History
- Position History
- Port Calls
- Nearby Vessels

[Add to Fleet](#)

[Vessel's Details](#)





# Report methodology (2)

- Find RV operator Point Of Contact, e.g from EurOcean RV infobase (Europe) [www.rvinfobase.eurocean.org](http://www.rvinfobase.eurocean.org) or Oceanic (Global) [www.researchvessels.org](http://www.researchvessels.org)

The screenshot displays the EurOcean RV infobase search results for the vessel 'Aranda'. The interface includes a search bar with filters for Vessel Name, Category, Country, Length, and Main Activity. A search button is present. Below the search bar, a list of vessels is shown with columns for Vessel Name, Country, and a status indicator (L, G, C, U, R, B, N). The vessel 'Aranda' is highlighted in green. To the right of the vessel list, a detailed view for 'Aranda' is shown, including a photo of the vessel and various technical details. A 'CONTACT INFORMATION' section is also visible on the right side of the page.

**OPERATING RVs**

[Vessel Name]   
[Vessel Category]   
[Country]   
[Length]   
[Main Activity]   
[Available for charter]   
RESET  SEARCH

Your search has returned 305 vessels. [Print Table PDF](#)

Vessel Name	Country	
Aade	Germany	L
Actinia	United Kingdom	L
Aegano	Greece	C
Águas Vivas	Portugal	L
Akademik	Bulgaria	C
Akademik A. Karpinsky	Russia	G
Akademik Ioffe	Russia	G
Akademik Lazarev	Russia	G
Akademik Motislav Keldysh	Russia	G
Akademik Nemchinov	Russia	G
Akademik Sergey Vavilov	Russia	G
Akademik Shatskiy	Russia	G
Alba Na Mara	United Kingdom	L
Albert Lucas	France	L
Alexey Maryshev	Russia	C
Alis	France	L
Alk	Netherlands	L
Alkor	Germany	R
AluDevil	Estonia	L
Anatoly Schilinsky	Russia	B
Andrea	Italy	L
Ángeles Alvarito	Spain	N
Antea	France	R
Antedon II	France	L
Aora	United Kingdom	L
Aranda	Finland	C

**EurOcean\_RV**

**EUROPEAN RESEARCH VESSELS INFOBASE**

[BACK TO SEARCH](#)

**Aranda**

**Status** Operating  
**Main activity** Multiple activities  
**Operating area** Baltic Sea, Arctic  
**Country** Finland  
**ICES code** 34AR  
**NODC code** 34AR  
**Call sign** OIRY  
**Year built** 1989  
**Homeport** Helsinki  
**Length** 59.20 m  
**Avail. for charter** Yes  
**Last update** 05.02.2015

CONTACT INFORMATION  
 TECHNICAL DETAILS  
 SCHEDULE HOMEPAGE

Time position n/a  
[Update this vessel](#)

**CONTACT INFORMATION**

<b>Owner</b>	Finnish Environment Institute (SYKE)
<b>Operator</b>	Finnish Institute of Marine Research (FIMR)
<b>Contact person</b>	Mr Juha Flinkman
<b>Address</b>	Erik Palménin aukio 1 P.O.Box 2  00561 Helsinki Finland
<b>Telephone</b>	+358 40 7503911 (mobile)
<b>Fax</b>	--
<b>Website</b>	<a href="http://www.syke.fi/en-US/Services/Research/_vessels/Research_Vessel_Aranda">http://www.syke.fi/en-US/Services/Research/_vessels/Research_Vessel_Aranda</a>
<b>Email</b>	<a href="mailto:juha.flinkman@ymparisto.fi">juha.flinkman@ymparisto.fi</a>
<b>Observations</b>	--

[Printable detailed PDF](#)

# What about planned cruises?

## OCEAN-GOING RESEARCH VESSELS - INTERNATIONAL CRUISE INFORMATION

[Home](#) | [Background](#)

QUICKSTART ::

[RESEARCH VESSEL CHARACTERISTICS](#)

[PLANNED CRUISE PROGRAMMES](#)

[CRUISE SUMMARY REPORTS](#)

NEWS :: [News archive](#)



**Welcome to the Cruise Programmes**  
**Start**

This directory is a searchable database of the cruise programmes of global ocean-going research vessels. The numbers in brackets behind the items in the left menu column indicate the number of related programme records. A user can select relevant programme records and narrow down its selection by clicking on these items in the left menu column. The individual records give further details on the planned cruise and related contacts. Clicking on the vessel name gives a detailed factsheet of the RV characteristics. Clicking on the organisation names gives the full addresses. The button on the right side of the Map gives the user a menu to select map layers.

This is an alternative user interface to the [Extended Search interface](#) which includes additional search criteria and combinations, but requires more knowledge of the user.

The cruise programme directory is maintained with input from the operators of the research vessels. A survey format has been defined, which forms the basis of the database. Operators can use an online Content Management System to update the planning of their ocean-going cruises regularly online. Alternatively operators can deliver their planning as a file for import into the database. This file has to conform to the survey format.

The compilation of the cruise programme directory is coordinated by BODC, that is approaching all operators, that are managing identified research vessels. At the same time qualifying operators are invited to contact [BODC](#) by e-mail, so that arrangements can be agreed for their regular input by online CMS or by file transfer.

Country operator	Count
United States	(364)
Germany	(348)
Belgium	(339)
Ireland	(293)
Norway	(268)
<a href="#">More</a>	

Status	Count
Completed	(2499)
Scheduled	(88)
Current	(11)

Discipline	Count
Marine geology	(463)
Biological oceanography	(461)
Physical oceanography	(360)
Cross-discipline	(335)
Chemical oceanography	(237)
<a href="#">More</a>	

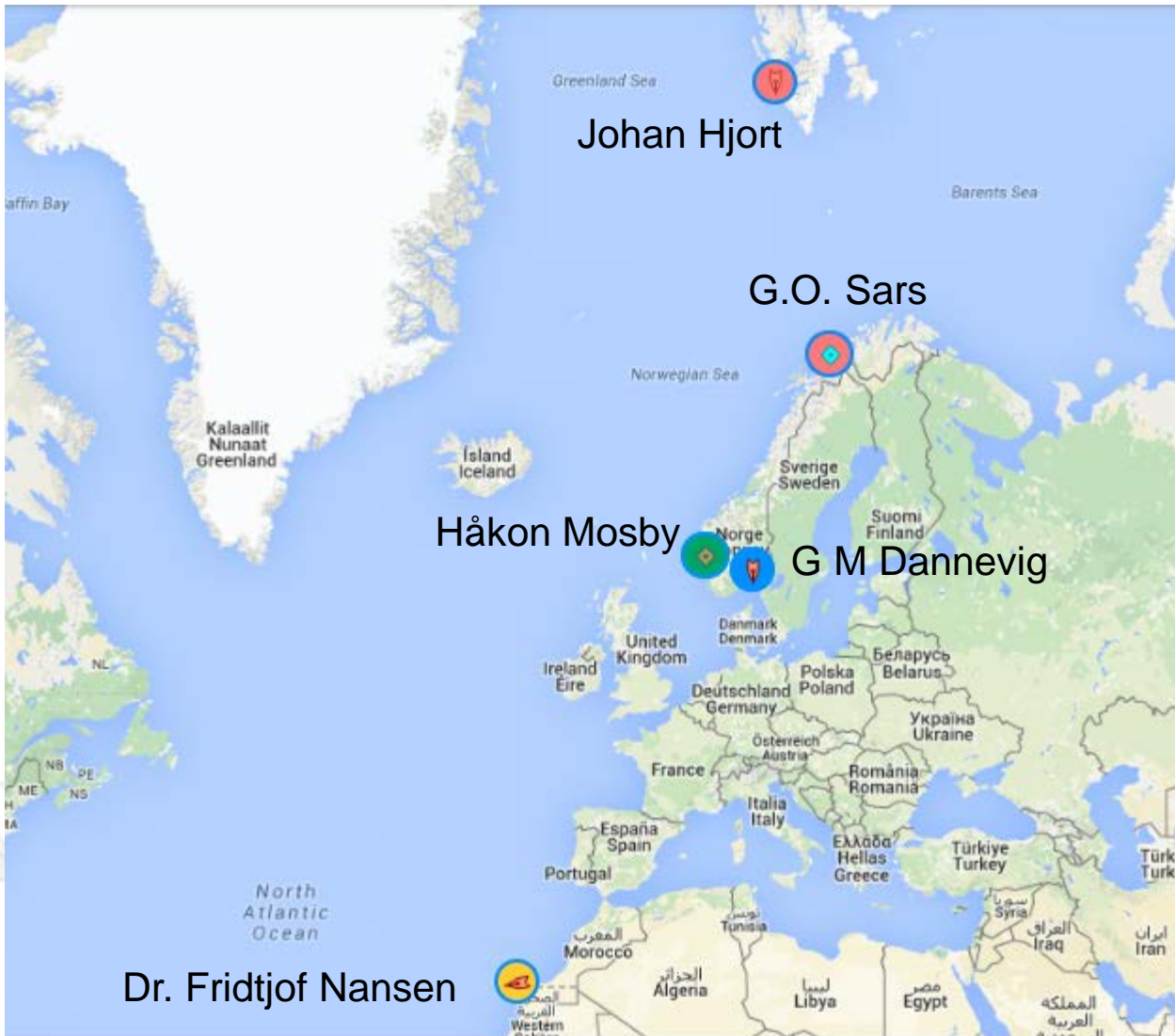
Sea area	Count
North Atlantic Ocean	(421)
North Sea	(346)
North Pacific Ocean	(270)
North East Atlantic Ocean (limit 40W)	(149)
Philippine Sea	(123)
<a href="#">More</a>	

www.pogo-oceancruises.org



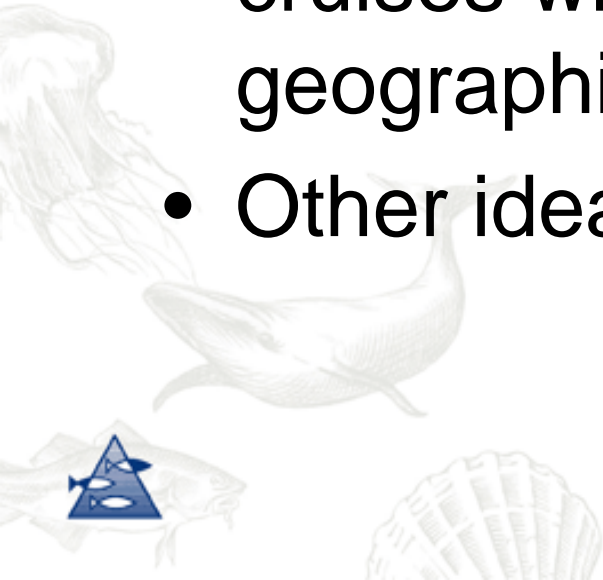


# "My Fleet" –IMR vessels



# Other possibilities

- Have EurOcean, OCEANIC and POGO to include functionality to generate mailing lists for RV operators/cruise leaders registered in their respective databases over vessels and/or planned cruises with the possibility to apply geographical filters etc?
- Other ideas?



# How to compensate for the intervention?

- Eurofleets report lists three options:

## 1. Charter cost.

May not be costeffective since charter cost quickly exceeds value of equipment and data

## 2. Fixed rate to be agreed between the parties (1-100% of charter rate).

How to determine the rate? Distance to go, value of equipment to be recovered, next time you help me .....

## 3. Barter.

OFEG does it already. Establish a barter club for equipment recovery incidents?

## 4. Other ideas?

