EUROFLEETS+ WEBINAR

12th January 2021

Eurofleets+

An alliance of European marine research infrastructure to meet the evolving needs of the research and industrial communities

# HOW TO APPLY FOR THE **CO-PRINCIPAL INVESTIGATOR (CO-PI)** PROGRAMME

Urmas Lips

TAL TECH

This project has received funding from the EU H2020 research and innovation programme under grant agreement No 824077

# TOPICS

**Potential Eurofleets+ Cruises – areas and schedules**

**Evaluation criteria – what should be taken into account when writing a proposal?**

www.eurofleets.eu/access/co-pi

# Eurofleets+ Provisional Transnational Access Schedule

Eurofleets+
An alliance of European marine research infrastructure to meet the evolving needs of the research and industrial communities

2021

| Vessel Name | Study Area | Location | CoPI | R | Timing | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arni Friedrikson | Marine Biology | North Western Iceland | Yes | Y | April | | | | | | | | | | |
| DANA | Marine Biology | Bredefjord, Greenland. Easily accessible (embark/disembark) from Nars[illegible], Greenland | Yes | Y | April/May | | | | | | | | | | |
| Celtic Explorer | Climate dynamics, Geophysics, Sedimentology, Training | NE Atlantic (S Rockall Plateau; Eriador Seamount; Porcupine Basin & Rid[illegible] East Thulean Rise) | Tentative | Y | April/May | | | | | | | | | | |
| GO Sars_Aegir | Marine Biology Physical Oceanography | Denmark Strait, between 64 and 68.5°N. | Yes | Y | Summer | | | | | | | | | | |
| Sanna | Biological Oceanography Biogeochemistry Physical Oceanography | Disco Bay, West Greenland coastline | No | Y | Summer | | | | | | | | | | |
| Thalassa_Ariane | Geology New technologies Marine Biology Physical Oceanography | SE Alboran Sea (W Mediterranean) | Yes | Y | Summer | | | | | | | | | | |
| Mare Nigrum | Geology, Geophysics, Sedimentology, Training | Danube Fan, 44°20′ N, 30°39′ E / 43°59′ N, 31°20′ E | No | Y | Summer | | | | | | | | | | |
| Aranda | Biological Oceanography | Gulf of Finland, Baltic Proper (Gotland Deep is the southernmost area). | Yes | Y | 4 days in April & 4 days in October 2021 | | | | | | | | | | |
| Tubitak Marmara | Biological Oceanography | Western Black Sea | No | Y | Autumn 2021 | | | | | | | | | | |
| SOCIB | New technologies, Marine Biology | Mallorca and Cabrera islands | Yes | Y | Autumn 2021 | | | | | | | | | | |
| Belgica II | Geology Geophysics Physical Oceanography Sedimentology | Ceuta Canyon and adjacent areas (West Moroccan Mediterranean margin). Shelf and slope environments. | Yes | Y | Late Autumn 2021 | | | | | | | | | | |
| Aegeo | Climate dynamics | Eastern Mediterranean, SW Aegean Sea, Myrtoon Basin | Tentative | Y | Early summer/Autumn | | | | | | | | | | |

2022

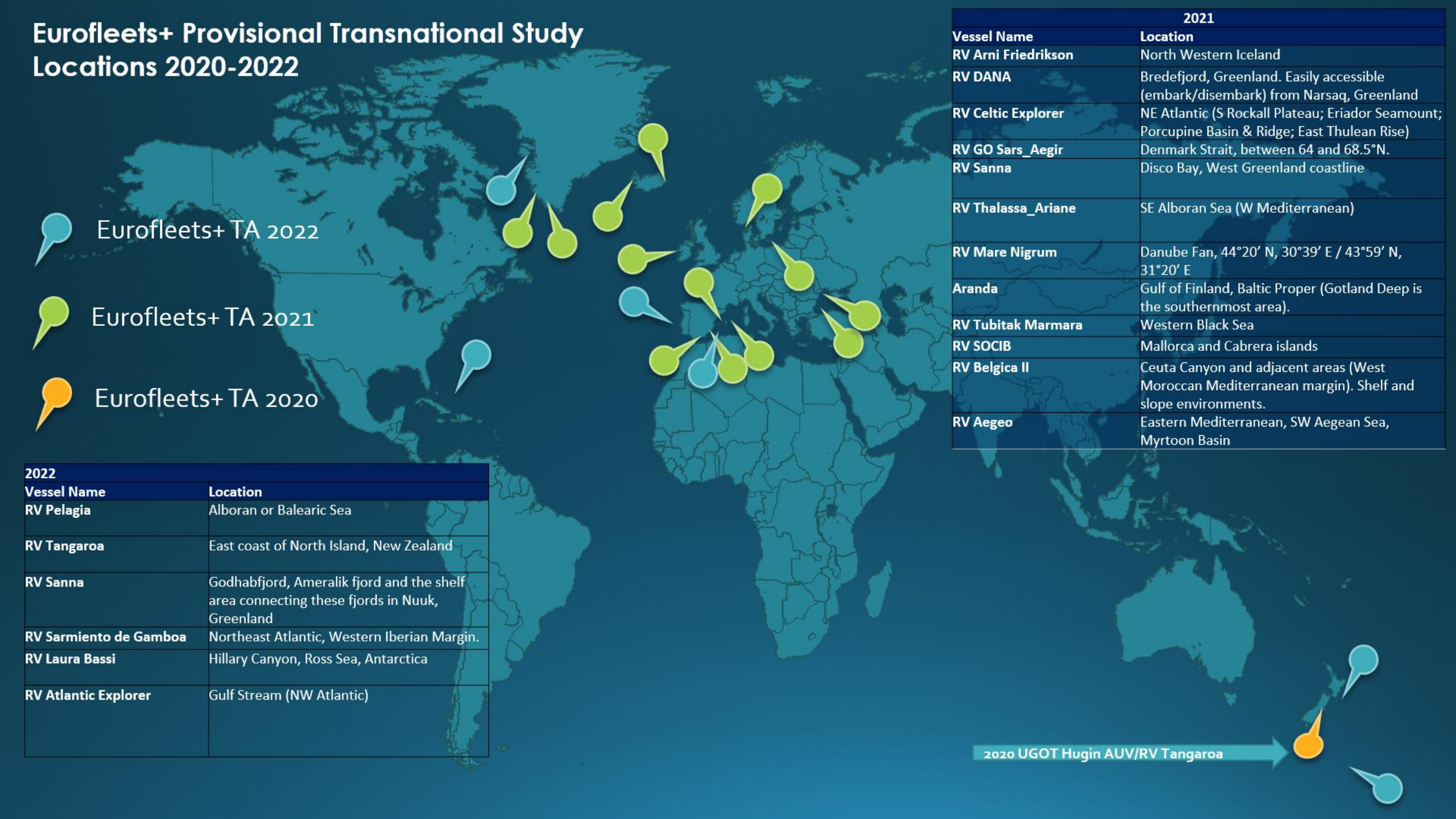
| Vessel Name | Study Area | Location | CoPI | R | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pelagia | Physical Oceanography | Alboran or Balearic Sea | No | Y | Early 2022 | | | | | | | | | | |
| Tangaroa | Geophysics | East coast of North Island, New Zealand | Yes | Y | Spring 2022 | | | | | | | | | | |
| Sanna | Biogeochemistry Climate dynamics New technologies Marine Biology Polar Biology Training | Godhabfjord, Ameralik fjord and the shelf area connecting these fjords [illegible] Nuuk, Greenland | No | Y | May | | | | | | | | | | |
| Sarmiento de Gamboa | Biogeochemistry | Northeast Atlantic, Western Iberian Margin. | Yes | Y | Autumn 2022 | | | | | | | | | | |
| Laura Bassi | Climate dynamics Deep Sea Research Geology Geophysics | Hillary Canyon, Ross Sea, Antarctica | Yes | Y | Spring 2022 | | | | | | | | | | |
| Atlantic Explorer | Biological Oceanography Biogeochemistry Microbiology Physical Oceanography | Gulf Stream (NW Atlantic) | Yes | Y | Summer 2022 | | | | | | | | | | |

# Check which infrastructure fits your research needs, and roughly operational areas and cruise timing

- **EF+ offers access to 27 RVs and 13 pieces of ME**
- **On the following geographic areas:**
  - Arctic Ocean, Atlantic Ocean
  - North Atlantic Ocean
  - Baltic Sea, North Sea
  - Mediterranean Sea
  - Black Sea
  - North-west Atlantic Ocean
  - Pacific Ocean

www.eurofleets.eu/infrastructures/
www.eurofleets.eu/access/

# Eurofleets+ Provisional Transnational Study Locations 2020-2022




| 2022 | |
|---|---|
| **Vessel Name** | **Location** |
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| **RV Tangaroa** | East coast of North Island, New Zealand |
| **RV Sanna** | Godhabfjord, Ameralik fjord and the shelf area connecting these fjords in Nuuk, Greenland |
| **RV Sarmiento de Gamboa** | Northeast Atlantic, Western Iberian Margin. |
| **RV Laura Bassi** | Hillary Canyon, Ross Sea, Antarctica |
| **RV Atlantic Explorer** | Gulf Stream (NW Atlantic) |

| 2021 | |
|---|---|
| **Vessel Name** | **Location** |
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| **RV DANA** | Bredefjord, Greenland. Easily accessible (embark/disembark) from Narsaq, Greenland |
| **RV Celtic Explorer** | NE Atlantic (S Rockall Plateau; Eriador Seamount; Porcupine Basin & Ridge; East Thulean Rise) |
| **RV GO Sars_Aegir** | Denmark Strait, between 64 and 68.5°N. |
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| **RV Thalassa_Ariane** | SE Alboran Sea (W Mediterranean) |
| **RV Mare Nigrum** | Danube Fan, 44°20' N, 30°39' E / 43°59' N, 31°20' E |
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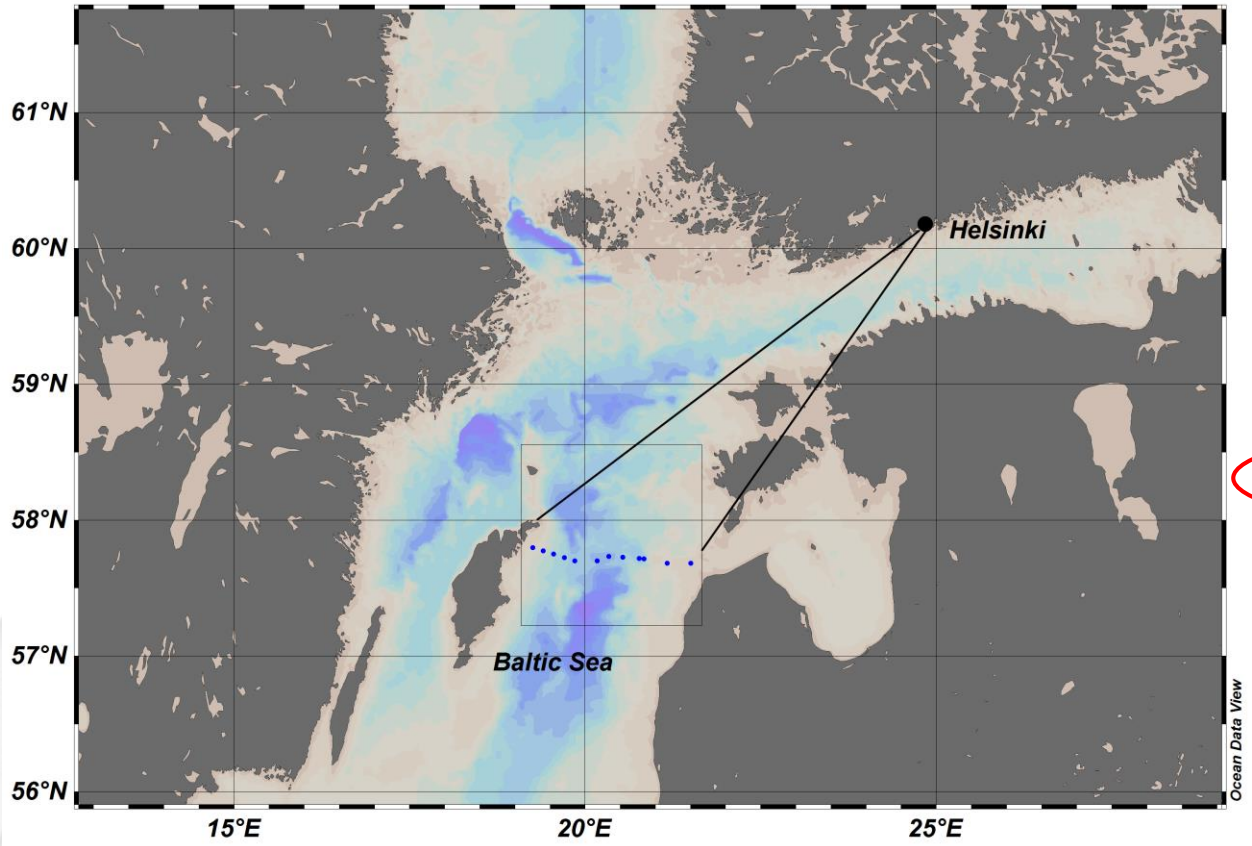
| **RV Aegeo** | Eastern Mediterranean, SW Aegean Sea, Myrtoon Basin |

# EF+ CRUISES

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**Potential Eurofleets+ Cruises – Baltic Sea (spring and autumn 2021)**

# EF+ VESSELS

## RV ARANDA

### Vessel Profile

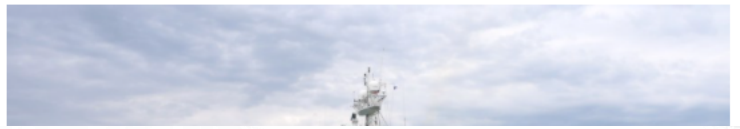
| | |
|---|---|
| **Home port:** | Helsinki, Finland |
| **Home port Coordinates:** | Latitude: N60° 9,714 Longitude: E024° 54,081996 |
| **Organisation & Address:** | Finnish Environment Institute SYKE, Marine Research Centre. Latokartanonkaari 11 FIN-00790 Helsinki, Finland |
| **Vessel Web site address:** | https://www.syke.fi/en-US/Services/Research_Vessel_Aranda |
| **Link to Vessel Schedules:** | https://www.syke.fi/en-US/Services/Research_Vessel_Aranda |
| **Normal Area of Operation:** | The Baltic Sea, from N 53 ° to N66 °, and E 10 ° to E30 °, all conditions and seasons. Oceans with no restrictions, Polar areas in spring, summer and fall. |
| **Max No of EF+ Days:** | 8 |
| **Vessel details:** | |

| Length | Breadth | Draught | Gross Tonnage | Ice class | DP | Service speed | Max No. Scientific Berths | No. of EF+ Scientific Berths |
|---|---|---|---|---|---|---|---|---|
| 66.3m | 13.80m | 5.00m | 1969 RT | Ice 1A*, PC6 or 7 in 2020. | Yes, DP1 | 12kn | 27 | 25 |

Finland's National Research vessel, 66.3m long. Commissioned 1989, major refit 2017-2018. Operates currently ca. 200 days per annum. DNVGL Class 1A Research Ship E0 Ice(1A) Battery power.

Silent class R (approval in progress).

Special purpose ship code (max 60 persons).

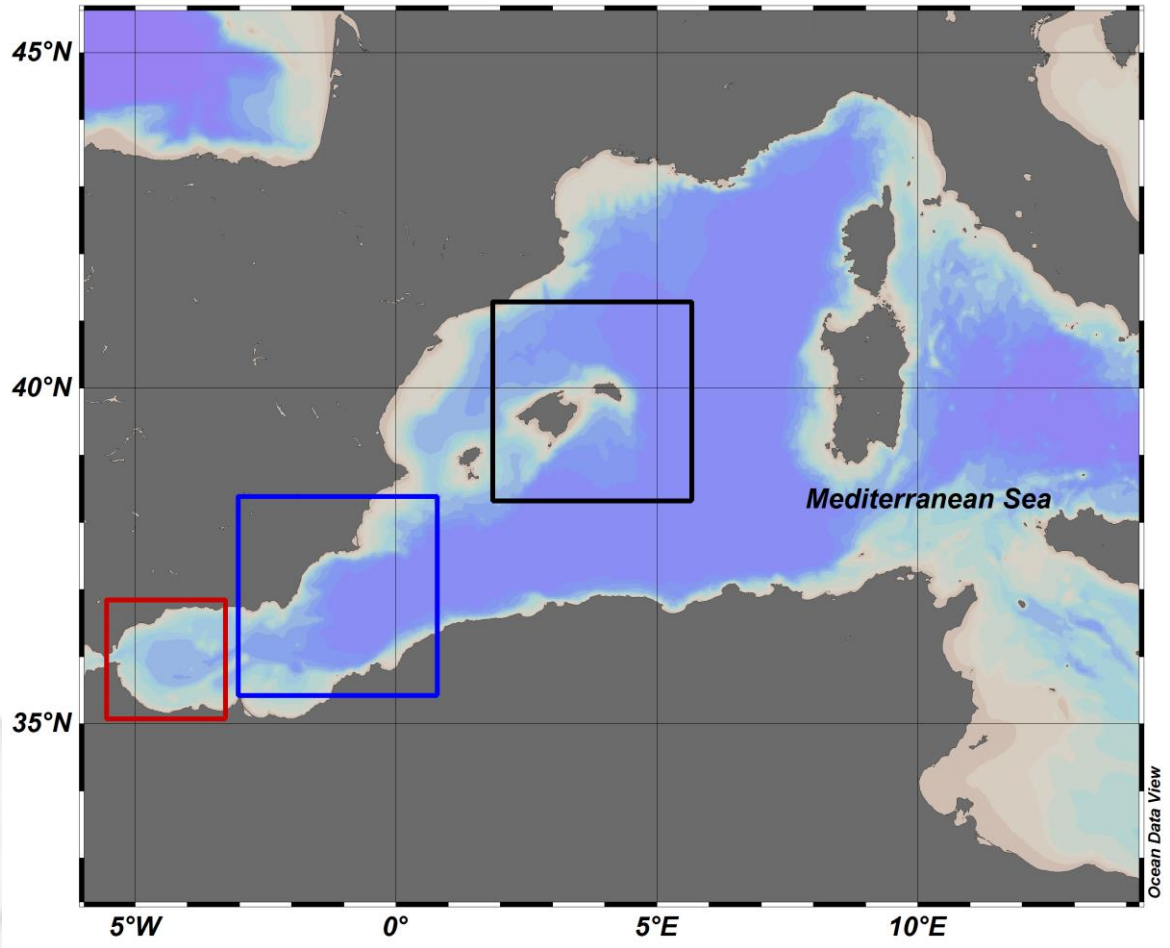



# EF+ VESSELS

## Technical Detail

| | |
|---|---|
| **Laboratory Facilities (fixed and temporary):** | Laboratory space 260m$^2$ including 5 labs (biological, nutrient, hydrography, isotope, flex) wet lab, 3 clima rooms. Sampling facility 132m$^2$, sampling deck 190m$^2$, capacity for 5 20' containers, or 10 10' containers, or combination. Specific fish handling container lab. Underway complete flow through system with fluorometers, thermo-salinometers, sampling automatics, underway ADCP, complete meteorological station w/ ceilometer (Vaisala). Freezers (-18°, -80°), complete nutrient analysis onboard (SEAL) |
| **CTD/Plankton sampling:** | SBE 911 CTD w/ 12 bottle Rosette sampler 4000m deployment, HydriBios serial water sampler, Towed plankton and hydrography samplers (Utow, AquaShuttle, MultiNet Midi), complete set of HydroBios vertical plankton nets (Phytoplankton, WP-2) |
| **Multi-Beam(s)/ Sub Bottom profiling:** | Shelf depth (500m) Multibeam system and SSS under procurement, installed in 2019-2020 in drop keel and separate SSS winch system. Single-beam chirp 12-22 kHz (drop keel), single-beam12 kHz (hull), both attached to Meridata high-definition sub-bottom profiler system. 28 kHz single-beam for CTD work, 50 kHz single-beam for use in back deck instrument operations/installations (e.g. piston corer), ADCP |
| **Fisheries Echo Sounders/Sonar:** | EK60 38kHz, EK80 with 38, 70, 120, 200 and 333kHz; Scanmar trawl control system, Marport trawl control system |
| **USBL:** | BATS |
| **Coring/Sampling Capabilities:** | Van Ween, box corer, Gemax sediment samplers |
| **Winches:** | Deck crane SWL 20 kN/16 m, 30 kN/ 8 m<br><br>Aft A-frame SWL 50 kN/100 kN + towing winch |

# EF+ CRUISES




| 2021 | |
|---|---|
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| RV Aegeo | Eastern Mediterranean, SW Aegean Sea, Myrtoon Basin |

**Potential Eurofleets+ Cruises – Mediterranea Sea: RV Thalassa and ROV Ariane (summer 2021), RV SOCIB (autumn 2021), RV Belgica II (late autumn 2021)**

# EF+ VESSELS

## RV THALASSA

### Vessel Profile

| | |
|---|---|
| **Home port:** | Brest, France |
| **Home port Coordinates:** | Latitude: 48° 23' 60.00" N Longitude: 4° 28' 59.99" W |
| **Organisation & Address:** | French Oceanographic Fleet Management, Ifremer Brest,<br>165 Sainte Anne Road, CS 10070, 29280 Plouzané, France |
| **Vessel Web site address:** | http://www.flotteoceanographique.fr/La-flotte/Navires/Navires-hauturiers/Thalassa |
| **Link to Vessel Schedules:** | https://www.flotteoceanographique.fr/Les-campagnes/Calendriers/Calendrier-en-cours |
| **Normal Area of Operation:** | North Atlantic and Mediterranean Sea in the area 10-60 N, 40W-35E and on a case by case basis depending on annual operation plan. |
| **Max No of EF+ Days:** | 11 |
| **Vessel details:** | |

| Length | Breadth | Draught | Gross Tonnage | Ice class | DP | Service speed | Max No. Scientific Berths | No. of EF+ Scientific Berths |
|---|---|---|---|---|---|---|---|---|
| 73.65 | 14.90 | 6.1 | 2803 UMS | Ice II + Polar Code | No | 11 knots | 25 | 25 |

Fisheries research vessel, 73 m long, delivered in 1996.

The primarily fisheries-based missions are :

- Population ecology
- Fisheries stock assessment
- Study of fish resources distribution over time and space
- Fishery and product processing techniques

The ship carries out other types of missions:

- Geosciences and physical oceanography
- Deployment of the ROV Victor 6000

# EF+ VESSELS

## RV SOCIB

### Vessel Profile

| | |
|---|---|
| **Home port:** | Palma de Mallorca |
| **Home port Coordinates:** | Latitude: 39° 33' 47.42" N Longitude:2° 38' 10.34" E |
| **Organisation & Address:** | ICTS SOCIB – Balearic Islands Coastal Observing and Forecasting System. Parc Bit, Naorte, Bloc A 2°p. pta. 3<br>Palma de Mallorca SPAIN. E-07121. Tel: +034 971 43 99 98. CIF: Q0700535H. |
| **Vessel Web site address:** | http://socib.es/?seccion=vesselPage&facility=vesselPage |
| **Link to Vessel Schedules:** | http://socib.es/?seccion=vesselPage&facility=schedulePage |
| **Normal Area of Operation:** | Western Mediterranean |
| **Max No of EF+ Days:** | 7 |
| **Vessel details:** | |

| Length | Breadth | Draught | Gross Tonnage | Ice class | DP | Service speed | Max No. Scientific Berths | No. of EF+ Scientific Berths |
|---|---|---|---|---|---|---|---|---|
| 23m | 9m | 1.75 | 172 | – | Yes DP0 | 12 kts | 8h: 13 | 8h: 13 |

Balearic Islands Coastal Observing and Forecasting System

23m long, delivered in September 2012. Operates <150 days per annum

# EF+ VESSELS

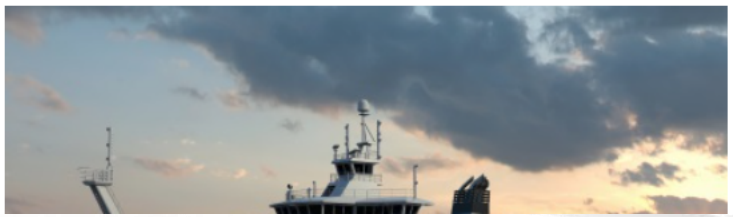
## RV BELGICA II

### Vessel Profile

| | |
|---|---|
| **Home port:** | Zeebrugge, Belgium |
| **Home port Coordinates:** | Latitude: 51.3360 Longitude: 3.1986 |
| **Organisation & Address:** | Royal Belgian Institute of Natural Sciences – Operational Directorate Natural Environment (RBINS-OD Nature)<br>3de en 23ste Linieregimentsplein, B-8400 Ostend, Belgium |
| **Vessel Web site address:** | https://odnature.naturalsciences.be/belgica/en/ |
| **Link to Vessel Schedules:** | https://odnature.naturalsciences.be/belgica/en/table |
| **Normal Area of Operation:** | 80N – 28N & 55W – 36E<br>North Atlantic Ocean, North Sea, Mediterranean Sea, Black Sea, Baltic Sea |
| **Max No of EF+ Days:** | 11 |
| **Vessel details:** | |

| Length | Breadth | Draught | Gross Tonnage | Ice class | DP | Service speed | Max No. Scientific Berths | No. of EF+ Scientific Berths |
|---|---|---|---|---|---|---|---|---|
| 71.4 | 16.8 | 4.8 | 3691 | DNV-GL ICE-1 | DP2 | 11 kn | 28 | 28 |

RV Belgica II is a silent multidisciplinary oceanographic & fisheries research vessel built in 2020. She will be replace the current RV Belgica at the end of 2020.

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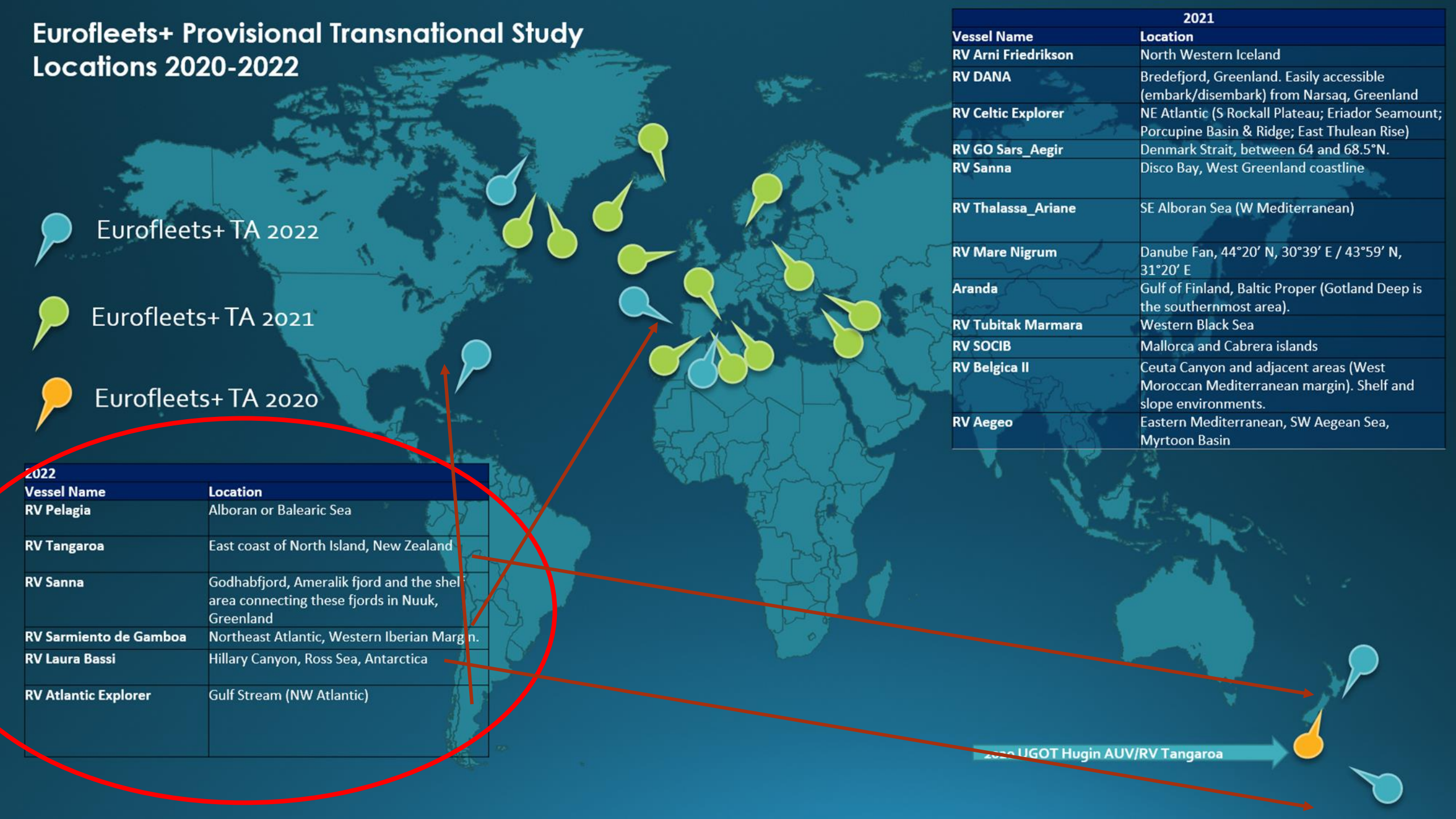


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# TOPICS

**Potential Eurofleets+ Cruises – areas and schedules**

**Evaluation criteria – what should be taken into account when writing a proposal?**

# EVALUATION CRITERIA

**1. Scientific and technical quality of the ship-time proposal – 35%**

**a) General scientific background**

Is the **current state of knowledge** in the research area well described?

Are cited **references** relevant and reflect the state-of-the-art?

**b) Specific aims of the expedition**

Is the proposed topic of high **scientific quality** and does it provide **innovative aspects**?

Are the **research objectives** and **expected outputs** of the proposal clearly stated? Are they **achievable** from a scientific point of view?

To which extent do the expected results lead to a **progress beyond the current state-of-the-art**?

# EVALUATION CRITERIA

**2. Quality of the work programme – 35%**

Is the **work plan adequate**? Is it **clearly** described and well defined? Is the **research area**, the **number of planned stations** and transects well justified? Can the proposed work plan **be realized in the set time**?

Are the **scheduled tasks and methods adequate** to the set objectives? Is it clearly stated which **methods and equipment** will be employed?

Has the proposal assessed any likely **risks** and are provisions for **downtime/bad weather** included?

# EVALUATION CRITERIA

**3. Scientific qualification/track record of the proposing PI and user group – 10%**

Background/track record of the **PI**/cruise leader.

Background/track record of the **project team** (if applicable)

Are the **roles and responsibilities** of the project team clearly stated? Is the combined **expertise suitable** to achieve the research objectives of the cruise?

# EVALUATION CRITERIA

**4. Technical capability to carry out the research cruise and data exploitation – 10%**

Is all **necessary equipment** available to carry out the proposed project?

Is a clear concept presented how the gathered **data will be analysed and published**?

Is **additional funding** available to support the research cruise and analysis of gathered data and samples?

Will data be fed into **international/national data banks or models**?

# EVALUATION CRITERIA

**5. Public outreach – 10%**

Are **dissemination activities addressing the general public** planned?

# SURVEY DESIGN AND PLANNING

**by Pauhla McGrane and John Boyd, Marine Institute and Helene Leau, IPEV**

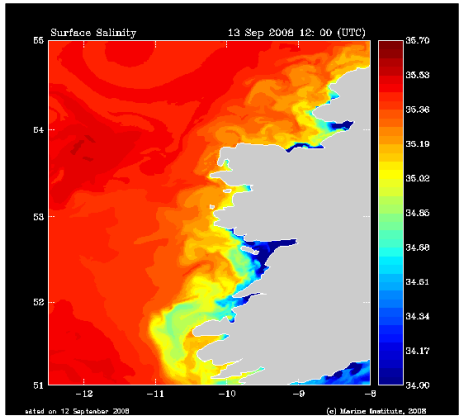
Clearly State:

Why?
- Justification for Survey and Data Sets Targeted

Where?
- Plot of Survey Site, Charts, GIS

When?
- Season, Survey Dates

How?
- Track Plan and Station Sequence




**https://www.youtube.com/watch?v=8fYucfvgDH8&feature=youtu.be**

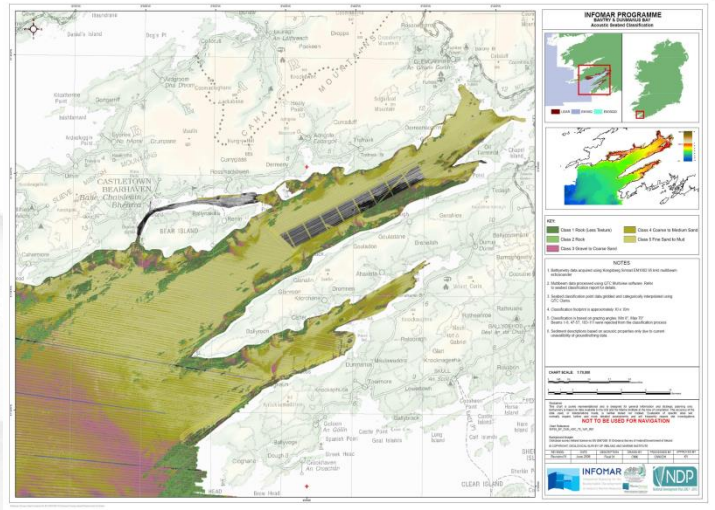
# SURVEY DESIGN: WHERE?

Extent of Survey Area Determined by:

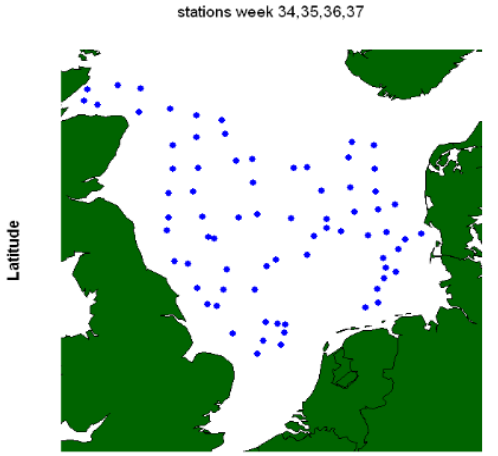
- Survey Objectives
- Previous Survey
- Time Available
- Funding

Cruise Track determined by:

- Continuous Data Acquisition = Transects
- Station Data = Number of Stations
- Physical Boundaries: Depth, Estuary, Fjord

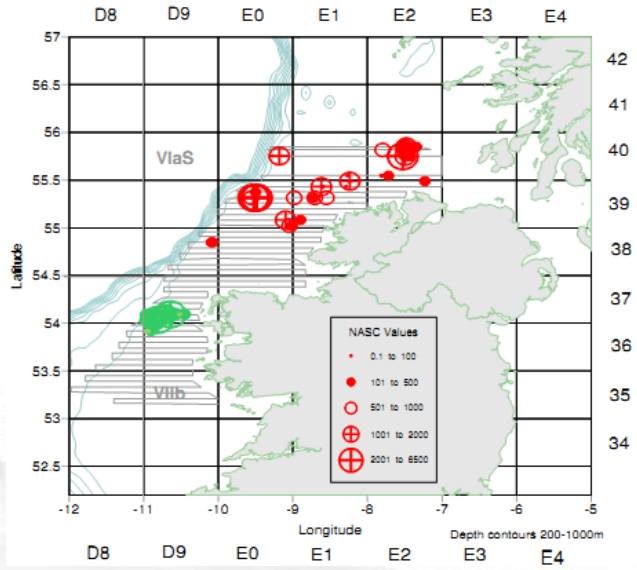


Bathymetric Survey of Bantry Bay, Transects




"IMARES Wageningen UR"

Annual Trawl Survey Stations

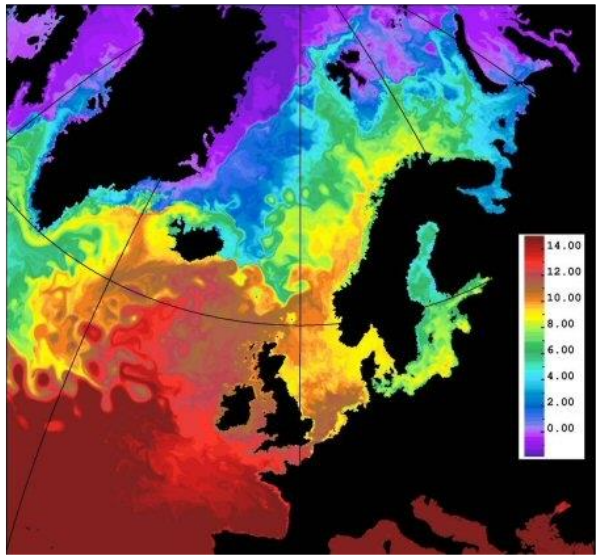



Herring Acoustic Survey, Transects and Stations

# SURVEY DESIGN: WHEN?

Timing
- One off
- Annual
- Monthly
- Weekly

Influenced by:
- Weather
- Clients
- Biology
- Previous Surveys
- Permission
- Stakeholders




Shelf Edge, Spring Coccolithophore Bloom

# IDENTIFYING A SUITABLE VESSEL

Choosing a survey vessel :

- Coastal or offshore capabilities
- Communications
- Navigational equipment
- Suitable winches & derricks
- Sample storage facilities
- Sufficient stowage of equipment
- Accommodation
- 12 or 24 hour operations

Ensure Appropriate Certification:

- ENG 11 Medical
- PST Sea Survival
- Liability and Insurance

*RV Celtic Explorer*
MI - Ireland


*RV Thalassa*
IFREMER– France


*RV Aranda*- SYKE
MRC - Finland

*RV Simon Stevin*
VLIZ - Belgium

# CRUISE PLANNING – ESTIMATION OF TIME

**Basic information needed**

- Cruising speed of the vessel = max speed between two locations without performing operation
- Estimation of weather and sea conditions = take a look at the pilot chart
- Estimation of time needed for each type of operation (can depend on WD)
- Estimation of time needed to prepare the operation

**Three types of operations**

- En route operations: Acquisition of ADCP, EK60, thermosalinograph, etc.
- Reduced speed operations:
  - A – XBT launch, XCTD launch, some types of sounding acquisition , etc.
  - B – Swath acquisition (profiles) with hull mounted equipment : e.g. bathymetry
- Station operations: A – CTD; B – coring; etc.

# DISSEMINATION

Public outreach will take place before, during and after the cruise as announcements and information on the project shall be posted on the websites of the ... . A field blog where scientific background, purpose of the cruise, methods and cruise updates will be given along with pictures and short movies shall be set up. The research program shall also be disseminated on public science days at ... and we aim to involve Dutch, Danish, Greenlandic and U.S. media

Reviewers opinion – very good

# DISSEMINATION

To inform the general public and to comply with the IPY objective of attracting and developing the next generation of polar scientists, engineers and leaders, we aim to:

- issue press releases sent to the Universities/institutions press offices of each of the participants, for publication on the partner's websites. They may then widen the dissemination toward their local/national press. Connect with dissemination initiatives in the framework of the International Arctic Science Committee (IASC).
- devote a website (may be part of the project website) to provide information to the general public and stakeholders. The web site will have links and interaction with the EUROFLEETS portal and ... websites

Reviewers opinion – excellent

Eurofleets+

An alliance of European marine research infrastructure
to meet the evolving needs of the research and industrial communities

# EUROFLEETS+ Webinar
# Co-PI Programme

## Thank you very much and good luck with your proposals!

www.eurofleets.eu
eurofleetsplus@awi.de

Eurofleets+ Webinar – How to write a proposal for the SEA Programme
https://www.youtube.com/watch?v=8fYucfvgDH8&feature=youtu.be

Proposal Writing - a general introduction: https://www.arice.eu/training/webinars