



Topic	H2020 – INFRAIA-2018-2020
Short Title	Eurofleets+
Title	An alliance of European marine research infrastructures to meet the evolving requirements of the research and industrial communities
Project Number	824077
Delivery Date	23/07/2019
Deliverable No	4.5
Lead Beneficiary	Marine Institute
Dissemination Level	Public

Handbook on Cruise Prerequisites



Document information	
Document Name	Eurofleets+ D4.5 Cruise Prerequisites
Document ID	Eurofleets+ D4.5 Cruise Prerequisites.docx
Revision	1
Revision Date	23/07/2019
Author	Bernadette Ní Chonghaile
Security	Public

Approvals			
	Name	Organisation	Date
Coordinator	Aodhán Fitzgerald	Marine Institute	31/07/2019
Activity Coordinator	Niamh Flavin	Marine Institute	31/07/2019
WP Leader	Dr Nicole Biebow	AWI	23/07/2019

History			
Revision	Date	Modification	Author
Version 0.1	22/07/2019	First Draft	Bernadette Ní Chonghaile
Version 1	23/07/2019	Minor Formatting	Bernadette Ní Chonghaile

This document contains information, which is proprietary to the EUROFLEETS+ consortium. Neither this document nor the information contained herein shall be used, duplicated or communicated by any means to any third party, in whole or in parts, except with prior written consent of the EUROFLEETS+ Coordinator.

The information in this document is provided as is and no guarantee or warranty is given that the information is fit for any particular purpose. The user thereof uses the information at its sole risk and liability.

TABLE OF CONTENTS

Contents

1	Introduction	1
2	Health & Safety Prerequisites	4
2.1	Medical Requirements	4
2.1.1	Seafarer's Medical Certification.....	4
2.2	Personal Survival Techniques (PST) Certification.....	5
2.3	Additional Individual Prerequisites.....	6
2.3.1	Security Awareness Training.....	6
2.3.2	Visa & Passport	7
3	Survey Specific Requirements.....	7
3.2	Diplomatic Clearance to conduct Marine Scientific Research (MSR)	7
3.3	Special Areas of Conservation.....	8
3.4	Additional Survey-specific clearances.....	8
3.4.1	Seismic	8
3.4.2	Other permits.....	8
4	Conclusion.....	9
5	Annex 1 - Eurofleets+ Research Vessels' Cruise Prerequisites	10

1 Introduction

This document outlines the prerequisites that need to be in place prior to a survey being conducted on a Eurofleets+ research vessel. It details the non-scientific requirements that vessel operators must comply with in accordance with international standards and statutory requirements. The Principle Investigator (PI) or Cruise Leader along with the vessel operator are responsible for ensuring that all obligatory certificates and clearances are in place, as not doing so can result in survey cancellation and/or seriously impede survey activities. The PI should check with the vessel operator what the requirements are, well in advance of the survey, to ensure there is adequate time to organise.

The requirements vary from vessel to vessel and jurisdiction to jurisdiction but in general they can be categorised into two broad categories;

- 1) Individual prerequisites which each scientist must hold and are generally concerned with the individual's wellbeing and safety on board.
and
- 2) Survey or vessel clearance which must be obtained in order to conduct that particular survey activity in a given area. These clearances are generally applied to and issued by statutory bodies.

In this document we will explain what the prerequisites are and provide information on which ones are obligatory on each vessel - see Table 1. Vessel users should note that the information contained in the document is subject to change and should always check with vessel operators in advance of a survey.

Table 1 Cruise Prerequisites on EF+ Research Vessels

Vessel Name	Organisation	Country	Medical Certification Required	Medical Form/Declaration Required	Personal Survival Training Certification Required	Additional Certification Required *	Diplomatic Clearance/ SAC Permit Required	Additional Clearances for Area/Type of Activity Required*
* Please refer to Annex 1 for further details and check with vessel operator prior to the survey commencing.								
RV Celtic Explorer	MI	Ireland	Yes	Yes	Yes	Yes	Yes	Yes
RV Magnus Heinason	HAVST	Faroes	Yes	No	No	No	Yes	No
RV Aranda	SYKE	Finland	Yes	Yes*	Yes	No	Yes	Yes
RV Simon Stevin	VLIZ	Belgium	No	No	No	No	Yes	Yes
RV Skagerak	UGOT	Sweden	No	No	No	No	Yes	Yes
RV Aegaeo	HCMR	Greece	No	No	No	Yes	Yes	Yes
RV Belgica	RBINS	Belgium	No	No	No	No	Yes	Yes
RV Mar Portugal	IPMA	Portugal	Yes	No	Yes	Yes	Yes	No
RV Laura Bassi	OGS	Italy	Yes	No	Yes	No	Yes	Yes
RV Tubitak Marmara	TUBITAK	Turkey	No*	No*	No	No	Yes	Yes

RV Mare Nigrum	GEOECOMAR	Romania	No*	No	Yes	No	Yes	No
RV Ramon Margalef	IEO	Spain	No	No	No	No	Yes	No
RV Angeles Alvarino	IEO	Spain	No	No	No	No	Yes	No
RV Sanna	GRONLANDS	Greenland	Yes*	No	No	No	Yes	No
RV Arni Freidrickson	HAFRA	Iceland	No	No	Yes	No	Yes	No
RV DANA	DTU	Denmark	Yes	No	Yes	Yes	Yes	No
RV Thalassa	IFREMER	France	Yes	Yes*	No*	No*	Yes	Yes
RV L'Europe	IFREMER	France	Yes	Yes*	No*	No*	Yes	Yes
RV GO SARS	HAVFO	Norway	Yes*	No	Yes*	No	Yes	No
RV Sarmiento de Gamboa	CSIC	Spain	No	Yes	No	No	Yes	Yes
RV Pelagia	NIOZ	Netherlands	Yes	No	Yes	No	Yes	No
RV Alliance	NATO-CMRE	Nato/Italy	No	Yes	No	No	Yes	Yes
RV ALKOR	Geomar	Germany	No	No	No	No	Yes	Yes
RV Tangaroa	NIWA	New Zealand	Yes*	Yes*	Yes	No	Yes	Yes
RV SOCIB	SOCIB	Spain	No	No	No	No	Yes	Yes
RV Coriolis II	UQAR	Canada	No	No	No	Yes	No	No
RV Atlantic Explorer	BIOS	BERMUDA	No	Yes	No*	No	Yes	Yes

2 Health & Safety Prerequisites

These are concerned with a scientist's health and safety whilst on board a research vessel. There are two main types, medical certification and safety certification. It is mandatory on some but not all Eurofleets+ vessels for scientists to hold one or both certificates. It is the responsibility of the Principle Investigator (PI) or Cruise Leader to ensure all scientific staff are certified according to guidelines provided by the vessel operator. Please refer to Table 1 and Annex 1 for more detail and consult the vessel operator directly if any queries.

2.1 Medical Requirements

Most Eurofleets+ research vessels require some type of medical form, declaration or certification regarding a scientist's health prior to them boarding the ship. Conditions at sea can prove difficult and the weather, geographic area and certain on-board activities may involve specific risks and of course medical assistance is not on-hand if someone becomes ill.

Some vessel operators provide their own medical declaration form as well as or instead of certification which requires individuals to sign a declaration stating that they are in good health. Scientists may be asked to state any medical conditions they have and medication they are on - this enables crew on board to take appropriate action in the case of an incident. Other vessel operators require participants to provide a medical history questionnaire to the ship's captain in a "confidential" marked and sealed envelope, only opened in an emergency. However, it is mandatory on certain vessels that a scientist holds a seafarer's medical certificate and PI's should be aware of this.

2.1.1 Seafarer's Medical Certification

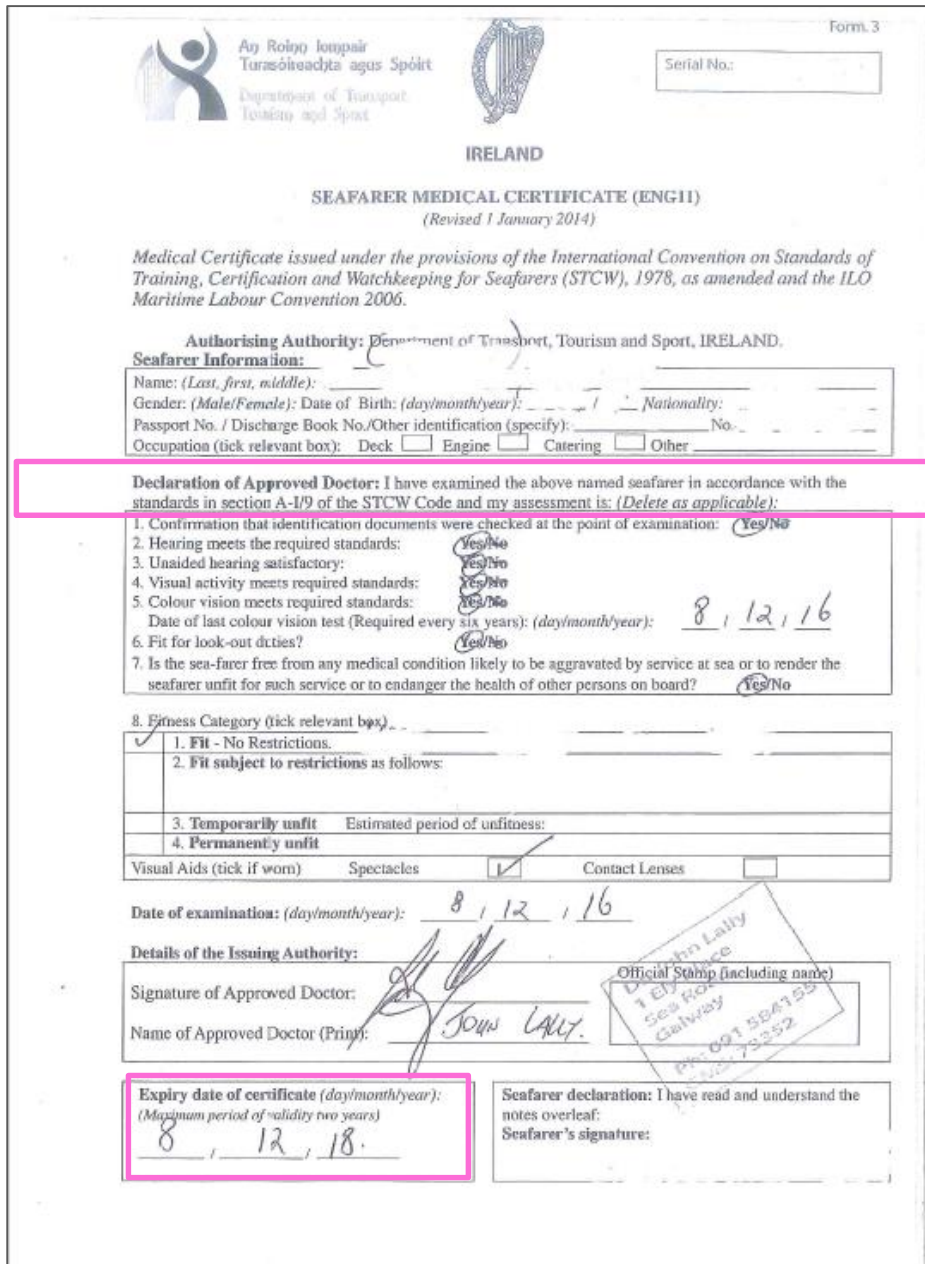
A Seafarer's Medical certificate, is a signed declaration by a qualified doctor that an individual is physically fit to work at sea. The most commonly required certificate on the Eurofleets+ vessels is the STCW detailed below, however the Maritime Labour Convention (MLC), Maritime and Coastguard Agency (MCA) and Australian Maritime Safety Authority (AMSA) are also required on Eurofleets+ vessels – the MLC on the RV *Dana* and the MCA and AMSA on the New Zealand vessel (RV *Tangaroa*).

The STCW medical cert is a certificate issued under the provisions of the International Convention on Standards of Training, Certification and Watch-keeping for Seafarers (STCW), 1978 as amended and the International Labour Organisation (ILO) Maritime Labour Convention 2006. It involves a medical examination carried out by a qualified approved doctor and is a declaration that the individual is deemed fit to work at sea. The doctor must be approved by the relevant country's own maritime authority.

On passing the medical exam, the doctor must provide a signed certificate which is valid for 2 years. If an individual is sick for more than 30 days or his or her medical fitness changes significantly they are required to contact an approved doctor for medical review.

The PI or Cruise Leader should check that all scientific crew have the necessary certification and that it is still valid. Below is an example of an STCW approved medical – STCW is referenced on the cert

and the doctor is on the Approved Doctor's List in Ireland which is the country of issue. The cert is invalid however as it is over two years old.



Form 3

Serial No.:

IRELAND

SEAFARER MEDICAL CERTIFICATE (ENG11)
(Revised 1 January 2014)

Medical Certificate issued under the provisions of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW), 1978, as amended and the ILO Maritime Labour Convention 2006.

Authorising Authority: Department of Transport, Tourism and Sport, IRELAND.

Seafarer Information:

Name: (Last, first, middle):
Gender: (Male/Female): Date of Birth: (day/month/year): Nationality:
Passport No. / Discharge Book No./Other identification (specify): No.
Occupation (tick relevant box): Deck ☐ Engine ☐ Catering ☐ Other ☐

Declaration of Approved Doctor: I have examined the above named seafarer in accordance with the standards in section A-1/9 of the STCW Code and my assessment is: (Delete as applicable):

1. Confirmation that identification documents were checked at the point of examination: Yes/No
2. Hearing meets the required standards: Yes/No
3. Unaided hearing satisfactory: Yes/No
4. Visual activity meets required standards: Yes/No
5. Colour vision meets required standards: Yes/No
Date of last colour vision test (Required every six years): (day/month/year): 8, 12, 16
6. Fit for look-out duties? Yes/No
7. Is the sea-farer free from any medical condition likely to be aggravated by service at sea or to render the seafarer unfit for such service or to endanger the health of other persons on board? Yes/No

8. Fitness Category (tick relevant box):

1. Fit - No Restrictions.
2. Fit subject to restrictions as follows:
3. Temporarily unfit Estimated period of unfitness:
4. Permanently unfit

Visual Aids (tick if worn): Spectacles ☒ Contact Lenses ☐

Date of examination: (day/month/year): 8, 12, 16

Details of the Issuing Authority:

Signature of Approved Doctor:
Name of Approved Doctor (Print):

Official Stamp (including name):

Expiry date of certificate (day/month/year):
(Maximum period of validity two years): 8, 12, 18.

Seafarer declaration: I have read and understand the notes overleaf:
Seafarer's signature:

Figure 1 Example of an ENG11(Irish) STCW approved Medical Certificate – invalid as it has expired

2.2 Personal Survival Techniques (PST) Certification

It is mandatory for scientists joining a research cruise on some Eurofleets+ research vessels to hold a Personal Survival Techniques (PST) certificate. The standard most commonly required is Standards of Training, Certification and Watch-keeping for Seafarers (STCW) but Global Wind Organisation. (GWO) and Offshore Petroleum Industry Training Organization (OPITO) are others that may be accepted. The maritime authority in each state stipulates which standard is acceptable and vessel operators must comply. Cruise Leaders / PIs should check what the requirements are and ensure

their scientists have the required cert and that it's valid. Please consult Table 1 for each vessel's requirements and Annex 1 for further detail on same.

PST certification is acquired when an individual completes a comprehensive training course which equips them with the basic essential knowledge, understanding and proficiency to protect and maintain their own and others safety at sea in accordance with international regulations. The training includes a practical training element which takes place in a pool environment and simulates various scenarios that can happen at sea.

STCW PST Certificates expire after 5 years and the training must be undertaken again in order to renew. The certification must be approved under the STCW 78/95 convention and should reference this on the cert. The course providers must be approved by the appropriate maritime authority in that jurisdiction.

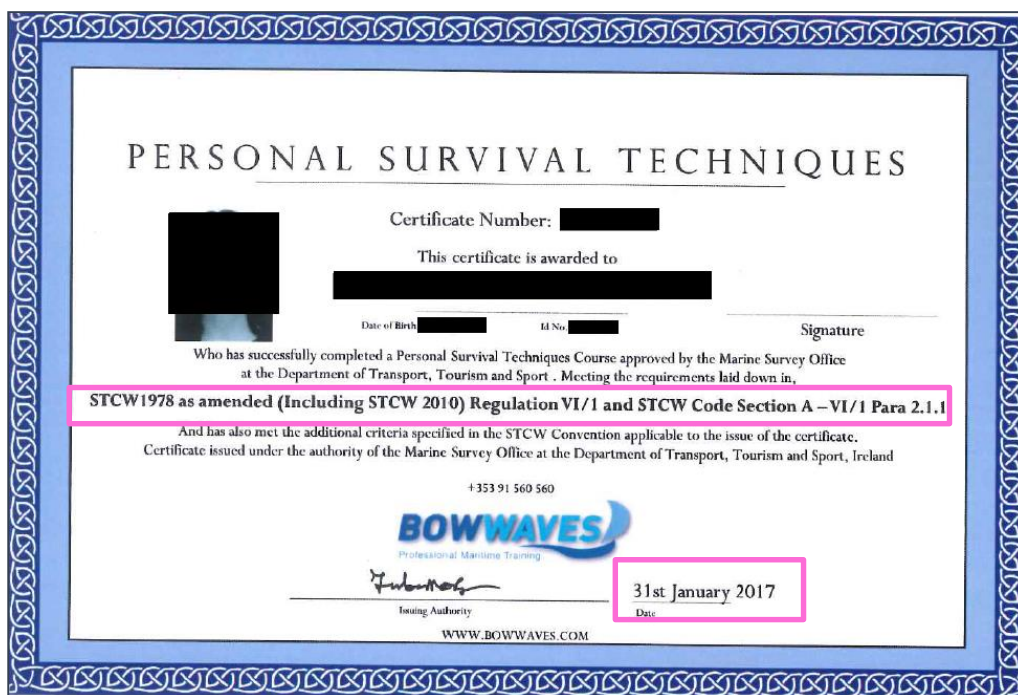


Figure 2 Example of a valid STCW PST Cert which references STCW and is less than *five* years' old

2.3 Additional Individual Prerequisites

Some vessels depending on the type of survey or area will require further personal certification, training or documentation.

2.3.1 Security Awareness Training

Scientists joining some Eurofleets+ vessels will be required to undertake further training in Ships Security Awareness depending on the numbers on board.

This training aims to provide those onboard the ship who do not have a designated security duty the essential education and training to meet the knowledge, understanding and proficiency requirements which supports Chapter XI-2 of the annex to the International Convention for the Safety of Life at Sea (SOLAS) 1974, as amended and the International Ship and Port Facility Security (ISPS) Code.

The training can be done online or in person with an approved course provider. Once certified, the cert is valid for life. Vessel operators will inform the Cruise Leader what the course options are and how many scientists if any need to undertake the training as it varies from vessel to vessel and survey to survey.



Figure 3 Image of a valid Certificate of Proficiency in Security Awareness

2.3.2 Visa & Passport

Depending on scientists' nationalities, Visas may be required when joining a research vessel in another country. As the application process can be quite lengthy in some countries, this requirement should be considered early on in the cruise planning process.

Scientists are advised to bring a current, valid passport even when working within their own country's waters, in the event that the ship needs to enter a foreign port for some unplanned reason. (It is better to have a passport than a national ID card, which might not be recognized in every country).

3 Survey Specific Requirements

3.2 Diplomatic Clearance to conduct Marine Scientific Research (MSR)

The United Nations Convention on the Law of the Sea (UNCLOS) dictates that if a state is conducting Marine Scientific Research (MSR) in another state's territorial sea then it must apply for consent from that coastal state (the country whose jurisdiction the MSR is taking place in). The coastal state has the right to refuse and/or impose certain conditions or restrictions on the scientific activity planned. It is a requirement under UNCLOS that **6 months' notice** is given to the coastal state of planned MSR.

Principle Investigators (PI) and/or Cruise Leaders in conjunction with the vessel operators should complete an application form to conduct Marine Scientific Research in the relevant state and forward the application via diplomatic channels to the relevant authority. The forms generally require information about the vessel and the scientific activity planned and will also request charts and/or coordinates of planned areas of operation.

UNCLOS also stipulates that the coastal state has the right to place an observer on board for the duration of the MSR activity. Therefore, PIs/Cruise Leaders and vessel operators should be aware that they need to keep a berth available for an observer in the event that the coastal state wishes to place one.

3.3 Special Areas of Conservation

Special Areas of Conservation (SACs) are internationally important areas that are given special protection due to their habitats, species and significant environmental importance. Special permits will need to be acquired in order to conduct marine scientific research in these areas and some scientific activity may be completely prohibited if it's deemed harmful to the environment.

PIs and Cruise leaders should ensure that if the scientific research is taking place in a Special Area of Conservation that they apply for a permit from the relevant statutory body responsible. Vessel operators will be able to advise on the responsible organisation but it is the responsibility of the cruise leader to secure the permit.

3.4 Additional Survey-specific clearances

3.4.1 *Seismic*

Seismic operations will require additional permits in certain jurisdictions. PIs and/or Cruise Leaders should consult with the vessel operators and the relevant maritime authority in that country for confirmation. In Irish waters for example, all Cruise Leaders of seismic surveys are required to comply with the guidelines to Manage the Risk to Marine Mammals from Man-made Sound Sources as prepared by the National Parks and Wildlife Service.

3.4.2 *Other permits*

Additional clearances are required in Belgium for example if working within offshore windmill parks; prior approval needs to be obtained from the operators. In Sweden permission needs to be sought from the Swedish military if performing research with bottom data. Specific Finnish coastal defensive zones require additional permits and use of radioactive isotopes require completion and approval of BIOS isotope application in Bermuda. In New Zealand an application must be submitted to the Environmental Protection Act (EPA) in order to conduct seabed sampling and to NZ Biosecurity Act for landing of biological samples.

Customs clearance may also be a requirement if shipping equipment from one country to another when scientists are bringing their own equipment. If there is a lot of equipment it is highly recommended to use a customs clearance broker or agent to hopefully avoid unnecessary delays.

4 Conclusion

It is recommended that Principle Investigators (PIs) and Cruise Leaders familiarise themselves with the requirements in Annex 1 of this document outlining the various certification, survey specific clearances and other permits required on the relevant vessel. Training courses take time to organise as do appointments for Seafarer's medical exams and this needs to be considered whilst planning the survey.

Applying for and waiting for permits to be issued can take considerable time also so sufficient time should be allowed in the cruise planning process to allow for this. Vessel operators and/or the statutory body responsible for maritime affairs in each jurisdiction can give further information and assistance with the application process.

The prerequisites outlined in this document are subject to change and may change during the lifetime of the Eurofleets+ project as legislation in the various jurisdictions changes so PIs and Cruise Leaders should take advice from the relevant vessel operators prior to the survey.

5 Annex 1 - Eurofleets+ Research Vessels' Cruise Prerequisites

RV Celtic Explorer 	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	<p>Up to 12 scientists can be embarked without certification.</p> <p>For additional scientists the STCW seafarers medical (Known as ENG 11 (Irl) or ENG1 (UK) (Validity 2 Years) is required.</p> <p>Note: please contact RV@marine.ie for any queries regarding certification further information here https://www.marine.ie/Home/site-area/infrastructure-facilities/research-vessels/vessel-user-information?language=en</p>
Are additional medical checks required? If yes, please describe.	None in addition to STCW seafarers medical
Survival training certification required for joining vessel	STCW Personal survival techniques certificate (5 years' validity)
Additional certification required e.g. Ship security awareness / other	Ships security awareness training for seafarers without designated security duties (Valid for life). Note this is only required for number in excess of 12 as per medical above.
Diplomatic clearance required for area of operation?	Yes, for operation in neighbouring EEZ's e.g. UK, France, Norway, Spain, Denmark/Faroes (and others as applicable). Required to be submitted to RV@marine.ie 6 months prior to cruise
Please indicate any additional clearances required for area or type of activity?	<p>Requirements for other jurisdictions to be addressed via Diplomatic clearance process. If undertaking a seismic survey in Irish waters, there's a requirement to comply with the guidelines to manage the Risk to Marine Mammals from Man-made Sound Sources in Irish Waters.</p> <p>https://www.npws.ie/sites/default/files/general/Underwater%20sound%20guidance_Jan%202014.pdf</p> <p>Permits must be obtained in order to work in Special Areas of Conservation.</p>

RV Magnus Heinason



Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	Health Certificate for Seafarers (STCW)
Are additional medical checks required? If yes, please describe.	None in addition to STCW seafarers medical (above)
Survival training certification required for joining vessel	N/A
Additional certification required e.g. Ship security awareness / other	N/A
Diplomatic clearance required for area of operation?	Yes, for operation in EEZ's other than Faroese. Should be submitted to hav@hav.fo 6 months prior to cruise
Please indicate any additional clearances required for area or type of activity?	Other requirements for other jurisdictions to be addressed via Diplomatic clearance process.

RV Aranda



Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	For scientists joining a cruise, a seafarer's medical certificate is required. A SAR course ("light" 1-day version) is appreciated, and can be organised for participants. More detailed information available from Mr. Panu Hänninen, panu.hanninen@ymparisto.fi
Are additional medical checks required? If yes, please describe.	Only divers are required to have a valid diver's health certificate along with professional scientific diver's certificate

Survival training certification required for joining vessel	SCTW Personal survival techniques training
Additional certification required e.g. Ship security awareness / other	No
Diplomatic clearance required for area of operation?	Yes, when operating in neighbouring countries territorial and EEZ waters. Usually minimum of 6 months handling time required prior to cruise. Clearance is handled by R/V Aranda office.
Please indicate any additional clearances required for area or type of activity?	Additional clearance is required for operation within specific Finnish coastal defensive zones. Aranda office will handle permits, but allow for at least 3 months handling time prior to cruise.

RV Simon Stevin



Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	No medical certification needed
Are additional medical checks required? If yes, please describe.	No
Survival training certification required for joining vessel	No
Additional certification required e.g. Ship security awareness / other	No
Diplomatic clearance required for area of operation?	Yes when in Dutch, French or UK waters
Please indicate any additional clearances required for area or type of activity?	Research tasks within offshore windmill parks require approval of WMP operators

RV Skagerak		
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	None	
Are additional medical checks required? If yes, please describe.	No	
Survival training certification required for joining vessel	No	
Additional certification required e.g. Ship security awareness / other	No	
Diplomatic clearance required for area of operation?	None in the usual areas of operation	
Please indicate any additional clearances required for area or type of activity?	Permission from Swedish military to perform research with bottom data	

RV Aegaeo




Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	No certification required by scientists and or technicians other than seamen.
Are additional medical checks required? If yes, please describe.	No medical check required for personnel other than seamen.
Survival training certification required for joining vessel	None required. The participants are obliged to attend training on board.
Additional certification required e.g. Ship security awareness / other	Insurance Certification is required.
Diplomatic clearance required for area of operation?	For all research operations, diplomatic clearance required for the Greek EEZ and for neighbouring EEZs as applicable.
Please indicate any additional clearances required for area or type of activity?	Seismic operations require additional permits. Other requirements for other jurisdictions to be addressed via Diplomatic clearance process.


RV Belgica II




Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	No certification required. Any possible health issues should be discussed prior to the campaign with the Coordinator RV Belgica and the Commander RV Belgica.
Are additional medical checks required? If yes, please describe.	No medical checks required. Any possible health issues should be discussed prior to the campaign with the Coordinator RV Belgica and the Commander RV Belgica.


Survival training certification required for joining vessel	No certification requirements.
Additional certification required e.g. Ship security awareness / other	No certification requirements.
Diplomatic clearance required for area of operation?	Yes, for operation in neighbouring EEZ's e.g. UK, France, Netherlands, Spain, Ireland (and others as applicable). Required to be submitted to MSO@naturalsciences.be 6 months prior to cruise
Please indicate any additional clearances required for area or type of activity?	Requirements for other jurisdictions to be addressed via the diplomatic clearance process.


<i>RV Mar Portugal</i>	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	Up to 12 scientists can be embarked without certification. For more than 12 scientists the following certification is required: STCW seafarers medical.
Are additional medical checks required? If yes, please describe.	None
Survival training certification required for joining vessel	STCW personal survival techniques training for more than 12 scientists.
Additional certification required e.g. Ship security awareness / other	For more than 12 scientists - ships security awareness training for seafarers without designated security duties.
Diplomatic clearance required for area of operation?	Yes, for operation in neighbouring EEZ's. Required to be submitted to info.marportugal@ipma.pt
Please indicate any additional clearances required for area or type of activity?	N/A

RV Laura Bassi	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	<p>Up to 12 scientists can be embarked without certification.</p> <p>For additional scientists above 12 the following certification is required:</p> <p>STCW seafarers medical (Known as ENG 11 (Irl) or ENG1 (UK) (Validity 2 Years)</p>
Are additional medical checks required? If yes, please describe.	No
Survival training certification required for joining vessel	STCW Personal survival techniques certificate (5 years' validity)
Additional certification required e.g. Ship security awareness / other	N/A
Diplomatic clearance required for area of operation?	Yes, for operation in Territorial Waters and neighbouring EEZ's. (when applicable). Required to be submitted by Chief Scientist
Please indicate any additional clearances required for area or type of activity?	For Seismic operations refer to local authorities regulations

RV Tubitak Marmara	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	Personal Statements will be negotiated accordingly.


Are additional medical checks required? If yes, please describe.	Personal Statements will be negotiated accordingly.
Survival training certification required for joining vessel	N/A
Additional certification required e.g. Ship security awareness / other	Familiarisation Briefing applied
Diplomatic clearance required for area of operation?	Yes, the vessel is owned by Turkish Ministry of Science & Technology and Governmental permissions required for all processes.
Please indicate any additional clearances required for area or type of activity?	Turkish Ministry of Science & Technology and Governmental permissions (Ministry of Foreign Affairs) required for all processes.

RV <i>Mare Nigrum</i>	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	All scientific staff can be embarked without a certificate. Everyone will sign a statement on their own responsibility that they are medically fit.
Are additional medical checks required? If yes, please describe.	None
Survival training certification required for joining vessel	SCTW Personal survival techniques training.
Additional certification required e.g. Ship security awareness / other	None
Diplomatic clearance required for area of operation?	Yes, for operation in neighbouring EEZs e.g. Ukraine, Bulgaria, Turkey, Russian Federation, Georgia.
Please indicate any additional clearances required for area or type of activity?	N/A

RV Ramon Margalef	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	None
Are additional medical checks required? If yes, please describe.	No
Survival training certification required for joining vessel	N/A
Additional certification required e.g. Ship security awareness / other	N/A
Diplomatic clearance required for area of operation?	Yes, if not in Spanish waters
Please indicate any additional clearances required for area or type of activity?	None

RV Angeles Alvarino	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	None
Are additional medical checks required? If yes, please describe.	No
Survival training certification required for joining vessel	N/A

Additional certification required e.g. Ship security awareness / other	N/A
Diplomatic clearance required for area of operation?	Yes, if not in Spanish waters
Please indicate any additional clearances required for area or type of activity?	None


RV Sanna	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	Up to 7 scientific scientists can embark without certification.
Are additional medical checks required? If yes, please describe.	None
Survival training certification required for joining vessel	None
Additional certification required e.g. Ship security awareness / other	None
Diplomatic clearance required for area of operation?	No
Please indicate any additional clearances required for area or type of activity?	N/A

RV Arni Freidrickson	
-----------------------------	--

Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	None
Are additional medical checks required? If yes, please describe.	None
Survival training certification required for joining vessel	SCTW survival training certification
Additional certification required e.g. Ship security awareness / other	No
Diplomatic clearance required for area of operation?	Yes, for operation in neighbouring EEZ's e.g. Greenland, Faroes, Norway, (and others as applicable). Required to prepare with MFRI at least 6 months in advance – solmundur.mar.jonsson@hafogvatn.is
Please indicate any additional clearances required for area or type of activity?	N/A

RV DANA	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	Health Certificate for Seafarers and Fishermen; Danish Maritime Authority (or Health certificate MLC and STCW compliant)
Are additional medical checks required? If yes, please describe.	N/A
Survival training certification required for joining vessel	Basic Firefighting: STCW: A-code, sec VI/1, par. 2, table A-VI/1-3 Personal Surviving Techniques, STCW: A-code, sec VI/1, par. 2, table A-VI/1-1
Additional certification required e.g. Ship security awareness / other	First aid STCW A-V1/4-1 Security awareness A-V1/6-1


Diplomatic clearance required for area of operation?	Yes, 3-5 months in advance
Please indicate any additional clearances required for area or type of activity?	N/A

RV Thalassa	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	<p>The following certification is required:</p> <p>Confidential medical information</p> <p>Note please contact Francois.Perroud@ifremer.fr for any queries regarding certification further information here http://www.flotteoceanographique.fr/campagnesscient/Aptitude-medicale (English version) and recommendations to medical practitioners regarding medical contraindications for embarkation concerning non-mariner professional personnel (English version)</p>
Are additional medical checks required? If yes, please describe.	Yes if additional diving activity during the cruise
Survival training certification required for joining vessel	None but SCTW personal survival techniques training is recommended
Additional certification required e.g. Ship security awareness / other	None but ships security awareness knowledge is recommended
Diplomatic clearance required for area of operation?	Yes, for operations in the states EEZ's. Required to be submitted to Francois.Perroud@ifremer.fr 8 months prior to the cruise. Link to the form: http://www.flotteoceanographique.fr/campagnesscient/Demande-de-travaux-dans-les-eaux-etrangees
Please indicate any additional clearances required for area or type of activity?	<p>Additional clearances for operations:</p> <ul style="list-style-type: none"> - in special areas of Conservation (Marine Natural parks, protected marine areas, ...) - seismic operations: Required to be submitted to Francois.Perroud@ifremer.fr 8 months prior to the cruise.


	<p>Link to information concerning risks for marine mammals: http://www.flotteoceanographique.fr/campagnesscient/Controle-des-risques-sonores-pour-les-mammiferes-marins</p> <p>Link to acoustic noise requirements and protocol for seismic emissions: http://www.flotteoceanographique.fr/content/download/27312/186312/file/AS-2016-5-Protocole-Protection-Mammiferes-Sismique.pdf</p> <p>- access and benefit-sharing established by Article 14 of the Nagoya Protocol (https://absch.cbd.int/)</p> <p>Other requirements for other jurisdictions to be addressed via diplomatic clearance process.</p>
--	---


RV L'Europe	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	<p>The following certification is required: Confidential medical information</p> <p>Note please contact Francois.Perroud@ifremer.fr for any queries regarding certification further information here http://www.flotteoceanographique.fr/campagnesscient/Aptitude-medicale (English version) and recommendations to medical practitioners regarding medical contraindications for embarkation concerning non-mariner professional personnel (English version)</p>
Are additional medical checks required? If yes, please describe.	Yes if additional diving activity during the cruise
Survival training certification required for joining vessel	None but SCTW personal survival techniques training is recommended
Additional certification required e.g. Ship security awareness / other	None but ships security awareness knowledge is recommended

Diplomatic clearance required for area of operation?	<p>Yes, for operations in the states EEZ's. Required to be submitted to Francois.Perroud@ifremer.fr 8 months prior to the cruise. Link to the form: http://www.flotteoceanographique.fr/campagnesscient/Demande-de-travaux-dans-les-eaux-etrangees</p>
Please indicate any additional clearances required for area or type of activity?	<p>Additional clearances for operations:</p> <ul style="list-style-type: none"> - in special areas of Conservation (Marine Natural parks, protected marine areas, ...) - seismic operations: Required to be submitted to Francois.Perroud@ifremer.fr 8 months prior to the cruise. <p>Link to information concerning risks for marine mammals: http://www.flotteoceanographique.fr/campagnesscient/Controle-des-risques-sonores-pour-les-mammiferes-marins</p> <p>Link to acoustic noise requirements and protocol for seismic emissions: http://www.flotteoceanographique.fr/content/download/27312/186312/file/AS-2016-5-Protocole-Protection-Mammiferes-Sismique.pdf</p> <ul style="list-style-type: none"> - access and benefit-sharing established by Article 14 of the Nagoya Protocol (https://absch.cbd.int/) <p>Other requirements for other jurisdictions to be addressed via diplomatic clearance process.</p>

G.O. SARS	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	<p>Mandatory: Valid health certificate from a seafarers doctor approved by Norwegian Maritime Authority.</p>
Are additional medical checks required? If yes, please describe.	<p>N/A</p>


Survival training certification required for joining vessel	Desirable: Basic safety training (survival suit use, entering life raft etc)
Additional certification required e.g. Ship security awareness / other	N/A
Diplomatic clearance required for area of operation?	Yes, for operation in neighbouring EEZ's e.g. UK, Denmark, Sweden, Russia, Iceland, Faroes (and others as applicable). Required to be submitted to pern@hi.no at least 6 months prior to cruise
Please indicate any additional clearances required for area or type of activity?	N/A

RV Sarmiento de Gamboa	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	<p>A medical questionnaire provided by UTM should be filled and required for joining.</p> <p>Any medical certification will be accepted but not mandatory.</p> <p>Note please contact info@utm.csic.es for any queries regarding certification</p>
Are additional medical checks required? If yes, please describe.	None.
Survival training certification required for joining vessel	No certification in survival training is required but SCTW personal survival techniques training will be welcome.
Additional certification required e.g. Ship security awareness / other	None
Diplomatic clearance required for area of operation?	Yes, for operation in neighbouring EEZ's. Required to be submitted to info@utm.csic.es 6 months prior to cruise
Please indicate any additional clearances required for area or type of activity?	<p>Additional clearances for operations in Spanish Special areas of Conservation if applicable</p> <p>Seismic operations require additional permits</p> <p>Other requirements for other jurisdictions to be addressed via Diplomatic clearance process</p>


RV Pelagia	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	ENG1 or equivalent (not older than 2yrs)
Are additional medical checks required? If yes, please describe.	No
Survival training certification required for joining vessel	PST (<5yrs), equivalent STCW training TBD
Additional certification required e.g. Ship security awareness / other	None
Diplomatic clearance required for area of operation?	If <200nm offshore, yes.
Please indicate any additional clearances required for area or type of activity?	N/A

RV Alliance	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	CMRE medical form will be provided.

Are additional medical checks required? If yes, please describe.	No
Survival training certification required for joining vessel	N/A
Additional certification required e.g. Ship security awareness / other	Safety and Security briefings will be provided on board the vessel.
Diplomatic clearance required for area of operation?	Yes
Please indicate any additional clearances required for area or type of activity?	Possibly depending on operational area (e.g. protected/restricted areas)

RV ALKOR	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	None
Are additional medical checks required? If yes, please describe.	None
Survival training certification required for joining vessel	None
Additional certification required e.g. Ship security awareness / other	N/a
Diplomatic clearance required for area of operation?	Yes, for operation in neighbouring EEZ's e.g. UK, Netherlands, Norway, Denmark, Sweden, Finland, Poland, Livonia, Latvia, Estonia (and others as applicable). Required to be submitted to forschungsschiffe@geomar.de 6 months prior to cruise

<p>Please indicate any additional clearances required for area or type of activity?</p>	<p>Additional clearances for operations in Special areas of Conservation if applicable</p> <p>Seismic operations require additional permits</p> <p>Other requirements for other jurisdictions to be addressed via Diplomatic clearance process.</p>
---	---

<p><i>RV Tangaroa</i></p>	
<p>Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.</p>	<p>Maritime NZ Seafarers Medical Certificate</p> <p>MCA seafarers medical (UK)</p> <p>AMSA seafarers medical (Aust) or equivalent</p> <p>STCW Certification accepted also (<2 years)</p>
<p>Are additional medical checks required? If yes, please describe.</p>	<p>NIWA (enhanced) Antarctic Medical required for Antarctic Voyages</p>
<p>Survival training certification required for joining vessel</p>	<p>SCTW Personal survival techniques training</p>
<p>Additional certification required e.g. Ship security awareness / other</p>	<p>No certification for security is required/just an awareness of what is consider normal security measures.</p>
<p>Diplomatic clearance required for area of operation?</p>	<p>Yes for some Pacific regions</p>
<p>Please indicate any additional clearances required for area or type of activity?</p>	<p>Environmental Protection Act (EPA) application required for seabed sampling</p> <p>NZ Biosecurity Act – permits required for landing of biological samples</p> <p>Marine scientific activities that interact with the seabed, subsoil or marine life living on or in the seabed in the EEZ, and extended continental shelf or that places equipment in the water column of the EEZ, may require notification to the EPA as a permitted activity, at least 40</p>

	<p>working days prior to the activity commencing. It is important NIWA are consulted on any application that involved Tangaroa. Please contact: activitynotifications@niwa.co.nz and for biosecurity: biosecuritywellington@niwa.co.nz</p> <p>See http://www.epa.govt.nz/EEZ/undertake_activity/Marine-scientific-research/Pages/default.aspx</p> <p>Any samples that are obtained may need MPI clearance. See https://www.mpi.govt.nz/importing/border-clearance/vessels/arrival-process-steps/</p> <p>Any items that are intended to be dumped in the EEZ or extended continental shelf as part of marine scientific research may require a marine dumping consent from the EPA. Applying for a marine dumping consent requires at least 60 working days' notice be given to the EPA. http://www.epa.govt.nz/EEZ/undertake_activity/dumping/Pages/default.aspx</p> <p>If the vessel is to leave the EEZ you will be responsible for organising Customs clearance. http://www.customs.govt.nz/news/resources/factsheets/Documents/Fact%20Sheet%2039.pdf</p> <p>(NIWA are well versed in the procedures and processes and can facilitate the applications for permits etc)</p>
--	--


RV SOCIB	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	None
Are additional medical checks required? If yes, please describe.	None
Survival training certification required for joining vessel	None

Additional certification required e.g. Ship security awareness / other	None
Diplomatic clearance required for area of operation?	Not in Spanish EEZ
Please indicate any additional clearances required for area or type of activity?	Depending on the location and type of work to develop

RV Coriolis II



Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	No medical required
Are additional medical checks required? If yes, please describe.	N/A
Survival training certification required for joining vessel	N/A
Additional certification required e.g. Ship security awareness / other	Workplace Hazardous Materials Information System (WHMIS)
Diplomatic clearance required for area of operation?	No
Please indicate any additional clearances required for area or type of activity?	None

RV Atlantic Explorer	
Certification requirements: Please indicate the medical certification required for joining the vessel and the list of acceptable certificates.	BIOS Medical History and Waiver forms required prior to departure
Are additional medical checks required? If yes, please describe.	None
Survival training certification required for joining vessel	STCW PST preferred, but not required
Additional certification required e.g. Ship security awareness / other	None
Diplomatic clearance required for area of operation?	None for Bermuda or US waters, all others require clearance through US State Department
Please indicate any additional clearances required for area or type of activity?	Use of radioactive isotopes requires completion and approval of BIOS isotope application, available on BIOS website