

# ERVO Cruise leader training

12 – 14 June 2023  
Stockholm, Sweden

Per W. Nieuwejaar  
Institute of Marine Research  
pern@hi.no



# Background

- Proposal to the ERVO Excom on 27 January 2023 to develop a framework for an ERVO Cruise leader training “basic package” to be tailored for each RV fleet in order to harmonize the cruise leader training between fleets and to be used as a starting point for those who are in the process of developing such instructions/training courses.
- Two Teams meetings arranged on 9 March and 23 March to discuss draft Cruise Leader Instructions, a slide package for a Cruise Leader course and a slide package for polar operations.

- Participants in one or both meetings were:
  - Per W. Nieuwejaar (IMR), Norway
  - Erica Koning, NIOZ, Netherlands
  - Felix Lauber, Laeisz, Germany
  - Bjela Koenig, AWI, Germany
  - Frank Armstrong, MI, Ireland
  - Francesco Coslovich, OGS, Italy
  - Javier Prades Vilarroya, UTM/CSIC, Spain
  - Manuel Paredes, UTM/CSIC, Spain
  - Robert Sparrock, ONR, USA
  - Panu Hänninen, SYKE, Finland
  - Rose Dufour, NSF, USA
  - Brandi Murphy, ONR, USA
  - Roberto Rome, OGS, Italy
  - Lorenzo Facchin, OGS, Italy



# Cruise leader instructions template content

## Chapters:

1. Purpose
2. Target group and responsibilities
3. Definitions
4. Description
5. Step by step checklist



# 1 Purpose

The purpose of these Cruise leader instructions is to ensure that cruises are planned, executed, and completed in the best possible manner in accordance with the aim of the research cruise.

# 2 Target group and responsibilities

This instruction applies to all cruises on research vessels manned and operated by *{RV Operator name}* or chartered by *{Institution}*. It covers cruise planning, preparation, execution, and post cruise activities.

# 3 Definitions

Cruise coordinator	Person named «Cruise coordinator " in the cruise program and therefore has a particular responsibility for the planning and execution of cruises that includes two or more projects and/or two or more vessels. The Cruise coordinator can appoint cruise leader(s) as necessary.
Cruise leader	Person responsible for the scientific activities on board in such a manner he/she think is the best for the execution of the cruise.
Cruise participants	Scientists, technicians and students participating in the cruise.
Ship worker	All persons working on board.
Passenger/Guest	Persons who are on board only as «passengers» and not doing any kind of work on board related to the vessel or the scientific work performed on board.




# Chapter 4 Description

- 4.1 Planning and preparations
- 4.2 Cooperation
- 4.3 Personal code of conduct
- 4.4 Drugs and alcohol policy
- 4.5 Safety
- 4.6 Risk assessment
- 4.7 Scientific work
- 4.8 Storage and use of chemicals and other substances harmful to human health
- 4.9 Use of gases on board
- 4.10 Certification and control of scientific equipment to be handled with vessel cranes or winches
- 4.11 Rest periods
- 4.12 Dietary requirements
- 4.13 Diplomatic clearance to operate in other countries exclusive economic zones
- 4.14 Course and station net
- 4.15 Marine Protected Areas
- 4.16 Collection of high-resolution bottom contour data
  - 4.16.1 Non-disclosure agreement
- 4.17 Personal safety training for cruise participants
- 4.18 Health certificate and passport requirement for cruise participants
  - 4.18.1 Exemptions
- 4.19 Information regarding Next of Kin for cruise participant
- 4.20 Guidelines for border control at sea, entering or leaving a Schengen area
- 4.21 Work environment committee
- 4.22 Use of spare cruise time
- 4.23 Start and end time for cruises
- 4.24 Information to media
- 4.25 Delayed cruise start
- 4.26 Calibration



# Chapter 5 Step by step checklist

- 5.1 Before the cruise
- 5.2 At cruise start 
- 5.3 During the cruise
- 5.4 At the end of the cruise

Responsibility	Action/activity
Cruise leader	Inform cruise participants and crew about the cruise objective(s), data collection, sampling, processing routines and procedures, health and safety and environment protections requirements and procedures on board.
Cruise leader	Inform all cruise participants about “Code of conduct” with regards to other persons on board during the cruise with regards to sexual harassment, unwanted personal attention etc.
Cruise leader/ Cruise participant	Those who bring chemicals on board must:  Check if the chemical(s) in question already are available on board in the required quantities to avoid storing unnecessary amounts on board during the cruise.  Check if the Captain and the Cruise leader are informed about the governing regulations for transport, storage, and use of the chemicals.  Check the required data sheets are on board. Make sure that all chemicals are properly marked and stored, in particular in case of bad weather.
Captain	Ensure that cruise participants receive the required information about ship safety routines, daily routines on board etc. in accordance with instructions and routines described in the ship operation manual for the vessel, in addition to participate in safety drills before and during the cruise.  Check relevant performed risk assessments.
Captain/Instrument Chief	Inform all cruise participants about rules and procedures for internet access during the cruise to ensure that the available bandwidth is used efficient for the vessel administration and operations, and for the benefit of all personnel on board.



# Cruise leader course

European Research Vessel Operators

2023

(81 slides)



# Course topics

- Opening/admin info
- Purpose
- Legal framework
- Own organization's cruise planning system and procedures
- Cruise planning and execution
- Web-based cruise planning system
- Summary/End of course





# Purpose/Goal

To give both new and experienced cruise leaders and cruise participants necessary knowledge about :

- Cruise preparation
- Cruise execution
- Ending a cruise
- Post-cruise tasks

primarily from a Research Vessel Operator's point of view



# ERVO Cruise leader course Polar operations

(72 slides)



# Purpose/Goal

To give new and experienced cruise leaders and cruise personnel necessary knowledge about:

- Preparations for cruises in ice covered waters
- Execution of cruises in ice covered waters



# Course topics

- What is the difference between cruises in open and ice covered waters?
- The IMO Polar Code and Polar Water Operation Manual (PWOM)
- Survival gear and equipment (personal and group equipment)
- Planning cruises in ice covered waters
- Staying and working on the ice
- Working in extreme low temperatures (on deck/on ice/on land)
- Polar bears
- Trawling in ice-covered waters
- Towing of scientific equipment and instruments
- Launch and recovery through moonpool
- Launch and recovery over the side in ice-covered water
- Diving in ice-covered water
- Use of workboats ice-covered water
- Helicopter operations
- Environmental protection management in Arctic



# Way ahead

- Cruise leader instructions (Word format), and cruise leader course slides (.ppt) to be made available to ERVO members and other interested parties.

## Possible methods:

- Posting files on ERVO web portal
  - Distribute on request to interested parties (zip-files)
  - Other?
- Share content with IRSO members?
  - Establish a ERVO working group for interested parties to discuss further developments and updates to this basic course package?



Thank you for your attention!