

# **INTERNATIONAL POLAR CODE THE HUMAN ELEMENT TRAINING**

**VLADIMIR KUZMIN, ADMINISTRATION OF THE BALTIC SEA PORTS,  
THE RUSSIAN FEDERATION**

**ARCTIC SHIPPING BEST PRACTICE INFORMATION FORUM**



**LONDON, 2019**

**Standard**

**Ratification**

**Audit and Monitoring**

**Implementation**

**Execution**

**Implementation of IMO instruments**

**IMO** is the UN specialized agency with responsibility for the safety and security of shipping and the prevention of marine and atmospheric pollution by ships, its main role is to create a regulatory framework for the shipping industry that is fair and effective, universally adopted and universally implemented, but it has no functions regarding enforcement of its standards.

**GOVERNMENTS** of Flag States, Port States and Coastal states have the rights to implement their policies and enforce them as necessary via PSC and FSC.

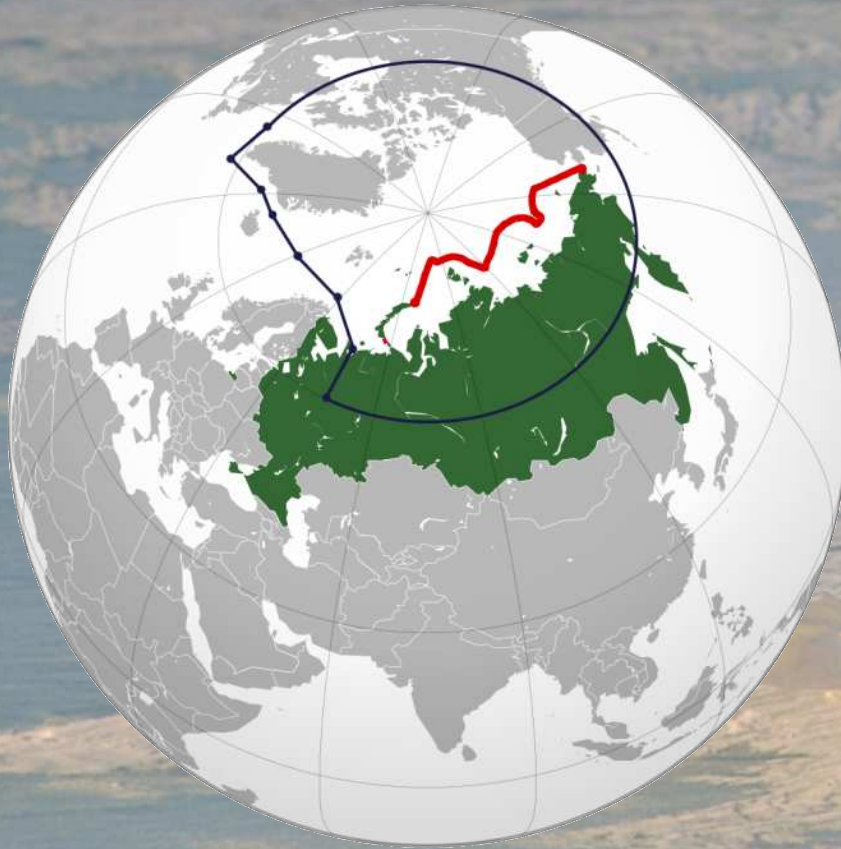
**RECOGNISED ORGANISATIONS (RO)** must be objective and professional during execution of their duties to ensure compliance with current standards on behalf of the Flag States.

**SHIPPING COMPANIES** bears responsibility for implementation of these standards on board their ships.

**SHIP CREW** hold direct responsibility for practical implementation of the safety and security of shipping and the prevention of marine and atmospheric pollution by ships in their day-to-day operation.



# **NORTHERN SEA ROUTE AS A PART OF RUSSIAN POLAR WATERS WITHIN POLAR CODE AREA**



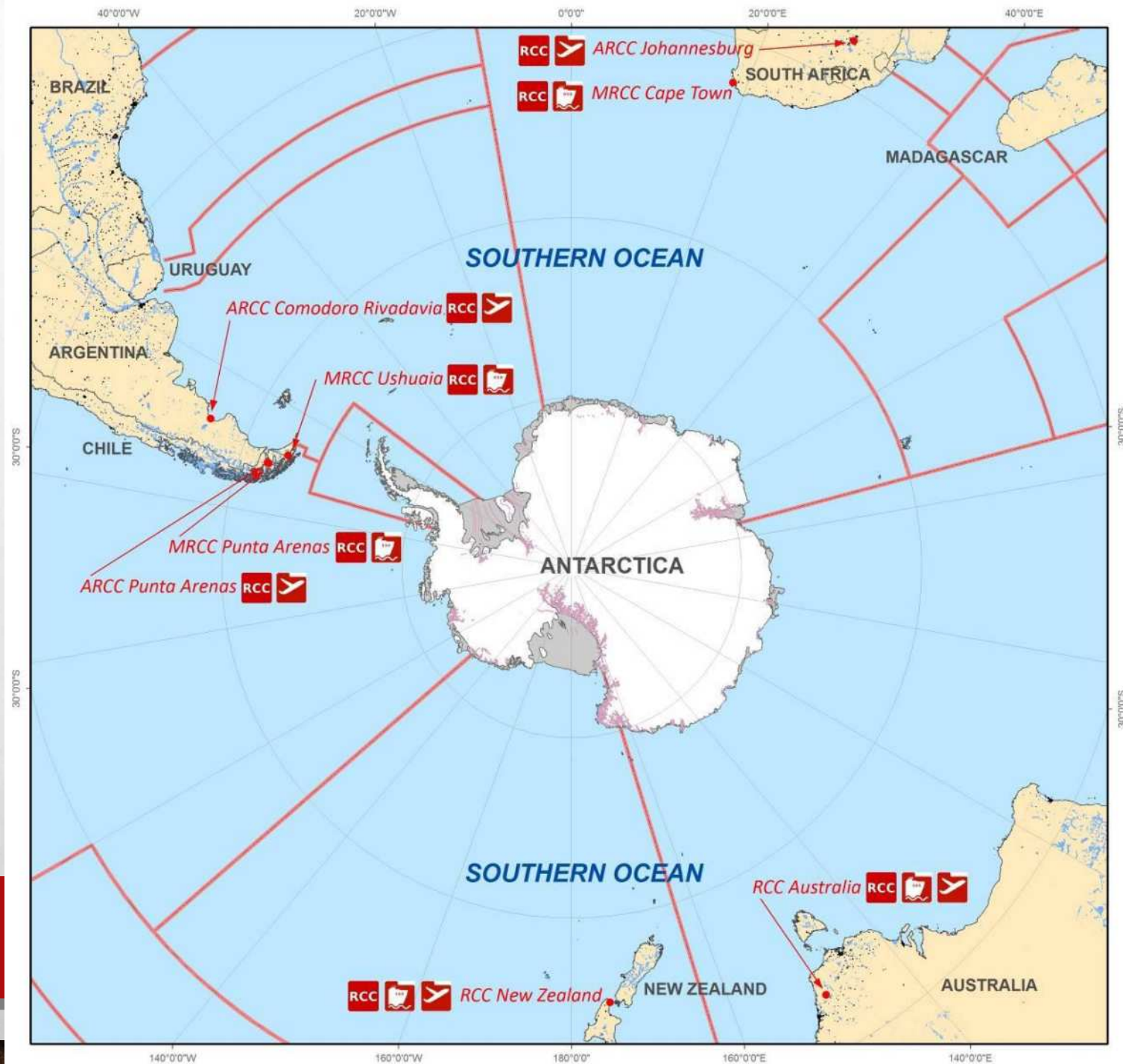


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# ARCTIC VS ANTARCTIC

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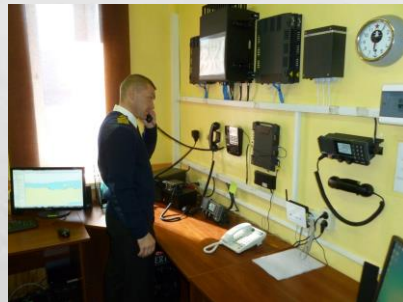
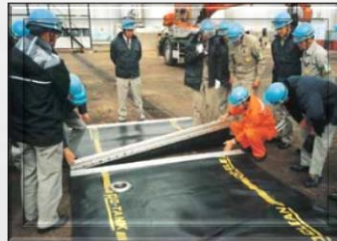
# ANTARCTIC SAR LIMITS



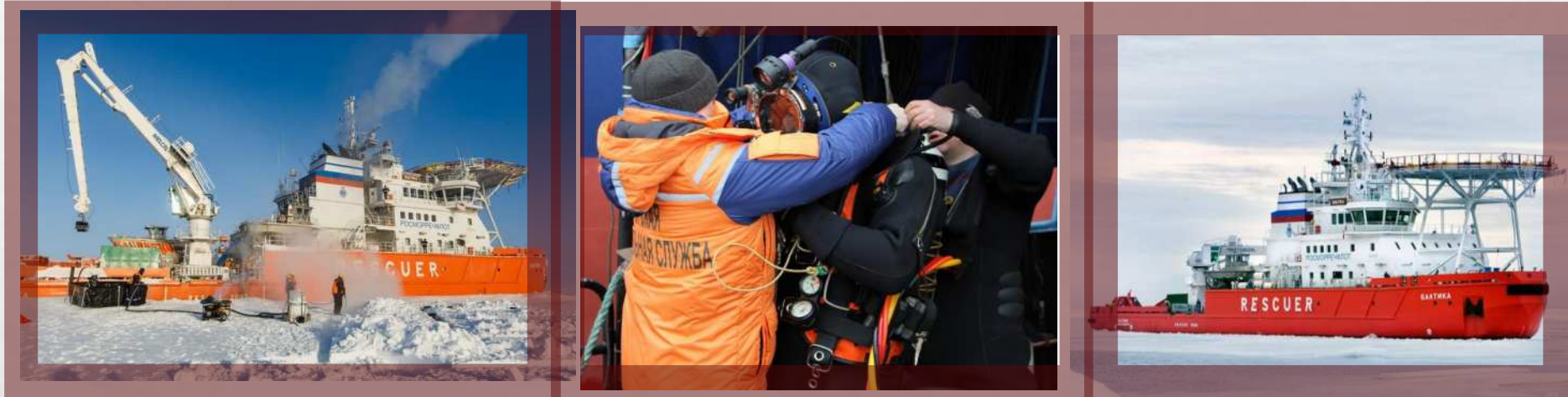


# SAR BASES IN ARCTIC WATERS

Bases of SAR and points of their location



# SAR IN THE ARTIC AREA



Search and rescue in the NSR waters is done by special service – Marine Rescue Service (MRS) using multifunctional search and rescue vessels with high ice class and with use of nuclear icebreakers.



# **SABETTA TERMINAL IS A DRIVER FOR DEVELOPMENT OF PORT INFRASTRUCTURE IN THE ARCTIC**



- **EXPECTED CARGO TURN-OVER FOR SABETTA:**
  - **LPG – 16,5 MLN. TON/YEAR;**
  - **LNG – 1,35 MLN. TON/YEAR;**
- **INPUT INTO OPERATION:**
  - **2017 – 6 MLN. TONS,**
  - **2018 - 6 MLN. TONS,**
  - **2019 – 5,85 MLN. TONS**
- **INCREASE IN CAPACITY UPTO - 30 MLN. TONS, INCLUDING:**
  - **LNG – UPTO 25 MLN. TON/YEAR;**
  - **LPG – UPTO 2,2 MLN. TON/YEAR;**
  - **PETROLEUM – 3,5 MLN. TON/YEAR.**
- **COMPLETION OF PROJECT – 2018.**

**Pragmatic and flexible approach to any mandatory measures**



# **POLAR SHIP CERTIFICATES (END OF 2018)**

- **20 SHIPS OF CATEGORY A**
- **22 SHIPS OF CATEGORY B**
- **19 SHIPS OF CATEGORY C**



**TOTALLY 61 SHIPS HAVE POLAR SHIP CERTIFICATE  
FLYING RUSSIAN FLAG**



# PORT STATE CONTROL

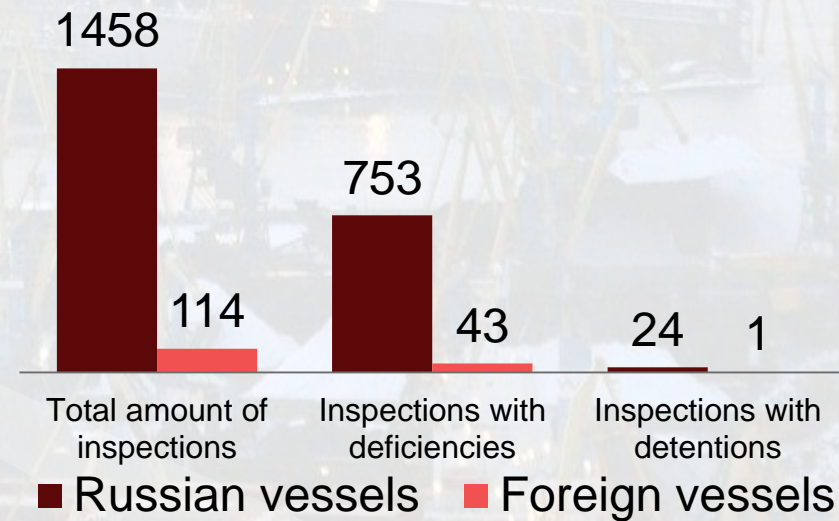
## Paris MoU



Port State Control in sea ports of Russian Federation  
in Arctic zone within the Polar Code area



Port State Control in sea ports of Russian Federation  
in Arctic zone outside of the Polar Code area





# ABSTRACTS FROM GUIDELINES FOR THE PSCOFFICER ON IMO POLAR CODE

- DURING THE INITIAL PSC INSPECTION, THE PSCO SHOULD VERIFY IF THE SHIP CARRIES A **VALID POLAR SHIP CERTIFICATE** AND, IF SO, THAT THE SHIP ALSO HAS A **POLAR WATER OPERATIONAL MANUAL (PWOM)**.

IN ADDITION, THE PSCO SHOULD CHECK THE FOLLOWING:

- SUPPLEMENT TO THE INTERNATIONAL OIL POLLUTION PREVENTION CERTIFICATE (IOPP CERTIFICATE) – FORMS A AND B;
- STANDARD FORMAT FOR THE PROCEDURES AND ARRANGEMENTS MANUAL
- FORM OF GARBAGE RECORD BOOK;
- SHIPS CARRYING NOXIOUS LIQUID SUBSTANCES IN BULK SHOULD HAVE REMARKS IN THE NLS CERTIFICATE.



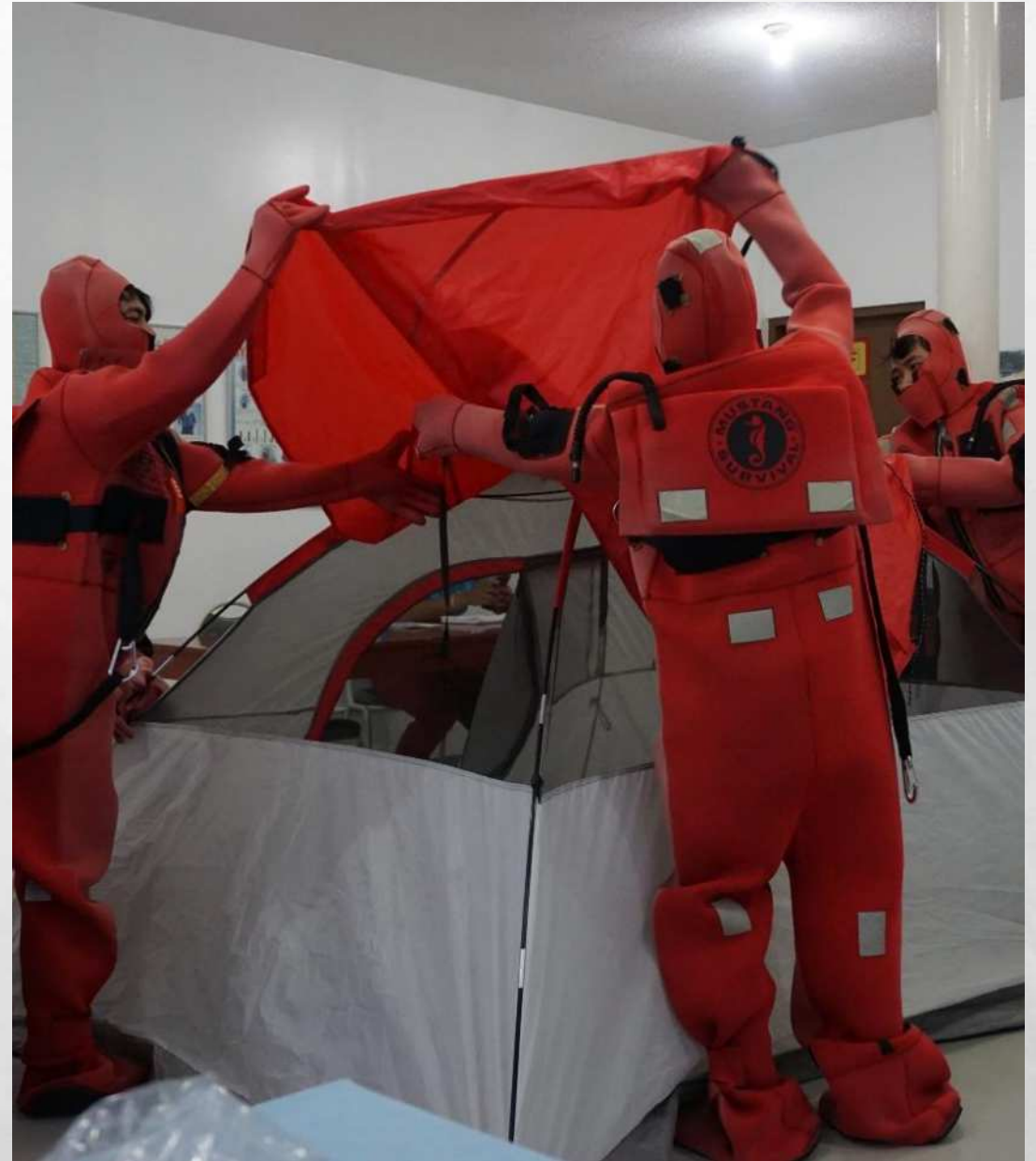
INTERNATIONAL  
POLAR CODE  
ARE YOU PREPARED?



**If no clear grounds are found during the initial inspection, there is no further need to consider the Polar Code.**

# NOTES FOR THE PSC OFFICER

- THE PSCO MAY VERIFY THAT THE **PWOM CONTAINS PROCEDURES FOR ANY OF THE OPERATIONS SET OUT IN CHAPTER 2** EITHER DIRECTLY OR BY CROSS-REFERENCE TO APPROPRIATE INFORMATION, PROCEDURES OR PLANS THAT EXIST ELSEWHERE IN A SHIP'S DOCUMENTATION.
- THERE IS **NO LANGUAGE REQUIREMENT FOR THE PWOM**. THE PWOM MAY BE IN A LANGUAGE NOT UNDERSTOOD BY THE PSCO. SIMILAR TO THE ISM DOCUMENTATION, IT IS NOT A HARMONISED PROCEDURE IF THE PSCO LOOKS AT THE DOCUMENTATION ON ONLY THOSE SHIPS WHERE THEY CAN UNDERSTAND THE LANGUAGE.
- **TRAINING**, REFERENCE IS MADE TO CHAPTER 12 OF THE POLAR CODE, MANNING AND TRAINING. THE GOAL OF THIS CHAPTER IS TO ENSURE THAT SHIPS OPERATING IN POLAR WATERS ARE **APPROPRIATELY MANNED BY ADEQUATELY QUALIFIED, TRAINED AND EXPERIENCED PERSONNEL**.



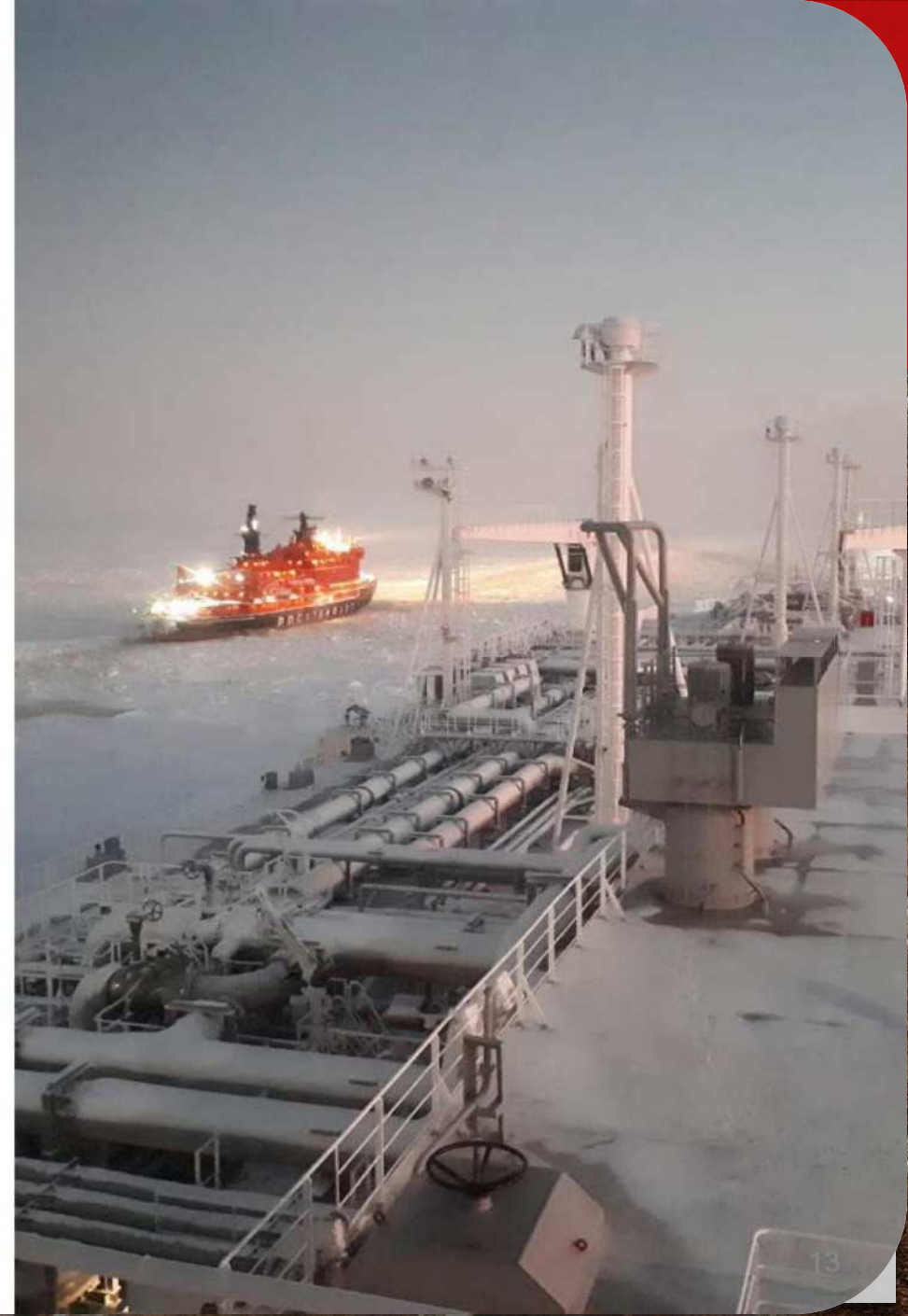


# Operational Project Statistics

- Project plan totalling 1534 tasks and sub task
- Total time spent 33 months
- 13,000 plus emails generated
- 249 conference and video calls
- 176 individuals consulted
- 49 Individual Organisations consulted
- 23,769 man hours of work undertaken by the team on top of their day jobs

**79 Documents and  
468 pages later**

**Paper safety?**



# DEFICIENCIES WARRANTING DETENTION

1. MISSING OR INVALID POLAR CODE CERTIFICATE
2. MISSING OR INCOMPLETE PWOM
3. MISSING OR DEFECTIVE EQUIPMENT
4. TRAINING NOT APPROPRIATE AND ACCORDING TO THE POLAR CODE
5. OPERATION OF THE VESSEL BEYOND ASSESSED AREA, PERIOD AND THE LIMITATIONS AND CAPABILITIES AS STATED IN THE CERTIFICATE.





# CIC OR HAVEP ON POLAR CODE?



- **CONCENTRATED INSPECTION CAMPAIGN OR HAZARD VERIFICATION PROGRAMME?**
- **WHAT FOR THE NON-POLAR COUNTRIES?**
- **WHAT SHOULD BE CHECKED?**

**Season? Duration? Polar Countries only or world-wide?**

# POLAR WATERS NAVIGATION TRAINING

- **BASIC**
- **ADVANCED**
- **SURVIVAL IN COLD CLIMATE**

**ALL THESE ARE AVAILABLE ACROSS THE WORLD NOW**





# MODEL COURSE DEVELOPMENT, ST JOHNS, NL







## **MAKAROV TC COOPERATES WITH KRYLOV STATE RESEARCH CENTRE**







# Admiral Makarov State University of Maritime and Inland Shipping

This is how the Campus at Okhta will look like after the reconstruction (this fall):



## **DURING THE COURSE WE INVITE:**

- **EXPERIENCED ICE MASTERS WHO WORKED AT THE NSR FOR MANY YEARS**
- **EXPERIENCED ICE BREAKER MASTER**
- **EXPERIENCED ICE PILOT**
- **AMSUMIS ARCTIC FACULTY PROFESSORS**
- **MAKAROV TC ICENAVSIM INSTRUCTORS**







- **MAKAROV TRAINING CENTRE HAS SUCCESSFULLY PASSED INTERNATIONAL ACCREDITATION OF ITS POLAR NAVIGATION COURSES.**





**Accredited by  
Marshall Islands**

**Republic of the Marshall Islands**  
OFFICE OF THE MARITIME ADMINISTRATOR

**CERTIFICATE OF APPROVAL  
TRAINING CENTERS**



*It is my pleasure to inform you that the*

- Basic Training for Ships in Polar Waters (PWBT) and
- Advanced Training for Ships in Polar Waters (PWAT)

*courses offered by*

**MAKAROV TRAINING CENTER  
of the ADMIRAL MAKAROV STATE UNIVERSITY OF MARITIME  
AND INLAND SHIPPING**

are hereby recognized as approved training courses as outlined in the STCW Convention, as amended. This approval is valid through the expiration date below, unless sooner surrendered or revoked.

*Issued by order of the Maritime Administrator this* 21st *day of* March 2017 .

*Expires* 20 March 2022 .



*John K. Hafner*  
MARITIME OFFICER



# APPROVED BY THE RUSSIAN FEDERATION AS FLAG STATE ON 11/09/2018



МИНИСТЕРСТВО ТРАНСПОРТА  
РОССИЙСКОЙ ФЕДЕРАЦИИ  
(МИНТРАНС РОССИИ)

Рождественка ул., д. 1, стр. 1, Москва, 109012  
Тел.: (499) 495-00-00, факс: (499) 495-00-10  
E-mail: info@mintrans.ru, http://www.mintrans.ru

11.09.2018 № 05.03/20322-40

На № \_\_\_\_\_ от \_\_\_\_\_

Ректору  
ФГБОУ ВО  
«ГУМРФ им. адм. С.О. Макарова»

С.О. Барышникову

Уважаемый Сергей Олегович!

В Минтрансе России в соответствии с Порядком признания организаций в целях наделения их полномочиями по освидетельствованию судов и организаций, осуществляющих подготовку членов экипажей морских судов в соответствии с Международной конвенцией о подготовке и дипломировании моряков и несении вахты от 1978 года с поправками, а также по проведению проверок, связанных с освидетельствованием этих судов и организаций, утвержденным приказом Минтранса России от 8 июня 2011 г. № 157 (далее – Порядок), рассмотрено заявление ФГБОУ ВО «ГУМРФ имени адмирала С.О. Макарова» от 8 августа 2018 г. № 125-16/2266 на право осуществления деятельности в качестве признанной организации по подготовке членов экипажей морских судов и приложенный к заявлению пакет документов.

В соответствии с п. 18 Порядка уполномоченным в установленном порядке заместителем Министра транспорта Российской Федерации – руководителем Федерального агентства морского и речного транспорта Ю.А. Цветковым принято решение о наделении ФГБОУ ВО «ГУМРФ имени адмирала С.О. Макарова» полномочиями признанной организации по подготовке членов экипажей морских судов, с правом выдачи соответствующих свидетельств от имени Российской Федерации в порядке, предусмотренном международными договорами Российской Федерации, по программам подготовки:

Подготовка по плаванию в полярных водах базового уровня;

Подготовка по плаванию в полярных водах по расширенной программе для старших помощников капитана и капитанов.

И.о. директора Департамента  
государственной политики  
в области морского и речного транспорта

Б.В. Французов

Гуренко Нина Андреевна  
8 (499) 495 00 00 доб. (1736)

ГУМРФ им. адм. С.О. Макарова  
Пост № 125-16/2266  
« 11 » 09 2018



# MAKAROV + KRYLOV



Course	Number
Polar Basic	1528
Polar advanced	282
Survival	249
Altogether:	2059

- **SINCE 2001 MAKAROV TRAINING CENTER ALONE HAS TRAINED MORE THAN 2000 SEAFARERS**
- **IN COOPERATION WITH ITF BOOKLET WAS CREATED ON POLAR CODE**
- **SPECIAL SURVIVAL COURSE HAS BEEN DEVELOPED FOR ENTIRE CREW**

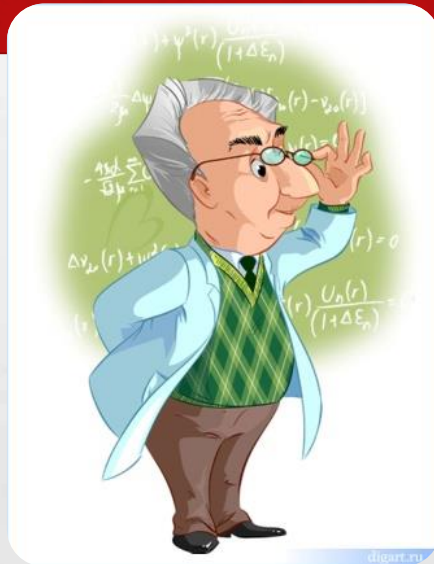


# NON-POLAR CREW TRAINING IN NON-POLAR ENVIRONMENT





# TEACHING EXPERIENCE



- + methodical skills
- + effective communication skills
- lack of practical experience at sea
- overestimates lectures value

# ICE NAVIGATION EXPERIENCE



- + practical experience at sea
- + skills of working with modern equipment
- lack of teaching skills
- underestimates methodological work



# ICE SELFIE – IMPORTANT PART OF TRAINING







**Environmental limitations,  
Lack of practical experience,  
Limited area for exercises**



# Snow World Facilities





# Snow World Facilities







# THANK YOU FOR ATTENTION

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