

Maritime Student's Perspective: Virtual Route Planning from Hamburg to Norilsk



Virtual Route Planning from Hamburg to Norilsk

• The aim was to find out whether the provided "Arctic Shipping Best Practice Information Forum" from the PAME working group can be used for planning a route from a mariner's side of view.

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 - Course: Nautical Science and Maritime Transport
 - 5th Semester

CONTENT



- 1. Voyage Preparation
- 2. Additional Preparation
- 3. Summary, Findings & Recommendations



1. Receiving the order for the new port

22.11.2018	LadT Hausarbeit WS18					Telex
Dreamshipping					Limassol	23.12.18
Voyage Order MS Hanse Porter - HP18/N/37						
Dear Captain	Kaiser !					
Pls proceed most economic speed to Montevideo Adjust arrival for 24.12.18/00:01 HRS Pls have vessel in all respects ready for loading and tender NOR upon arrival plt. stn Bunkering (DO and HFO) is scheduled for arrival load port. Issue bunker order for total voyage asap. Order only minimum bunker qtty. for total voyage incl. safety margin 3 days.						
LAYCAN	24.12.18	to	27.12.18			
Cargo to be loa	ded:					
1)						



2. Prepare a rough approximation of the route (total distance)

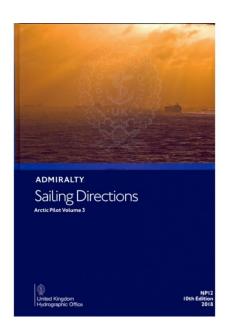


Route was planned with OpenCPN



3. Check expected weather

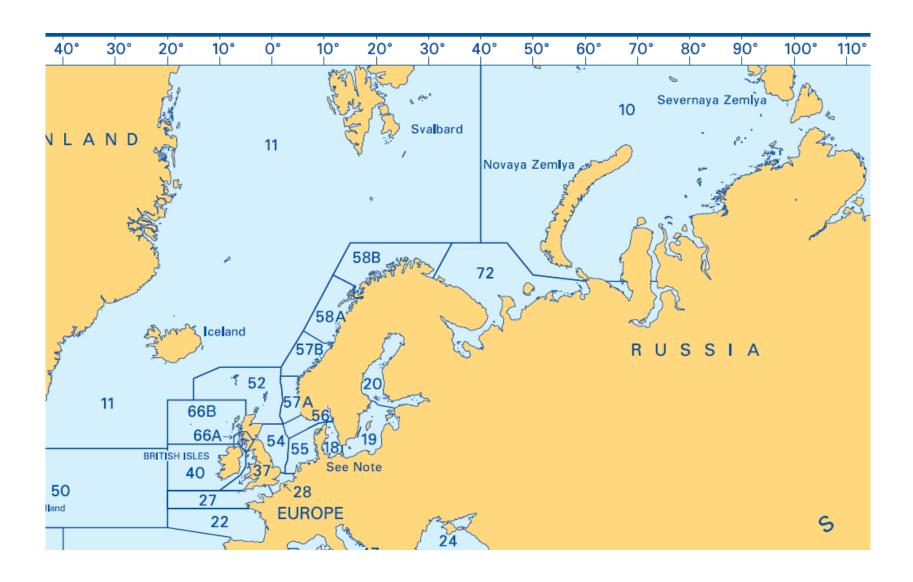
4. Research in "Sailing Directions"





https://mdnautical.com/37071-thickbox_default/d.jpg_https://mdnautical.com/37311-thickbox_default/admiralty-sailing-directions-np11-arctic-pilot-vol-2-10th-edition-2010.jpg









5. Check the "Notices to Mariners"

2784-2880/19



ADMIRALTY NOTICES TO MARINERS

Weekly Edition 23

06 June 2019 (Published on the ADMIRALTY website 24 May 2019)

CONTENTS

- I Explanatory Notes. Publications List
- II ADMIRALTY Notices to Mariners. Updates to Standard Nautical Charts
- III Reprints of NAVAREA I Navigational Warnings
- IV Updates to ADMIRALTY Sailing Directions
- V Updates to ADMIRALTY List of Lights and Fog Signals
- VI Updates to ADMIRALTY List of Radio Signals
- VII Updates to Miscellaneous ADMIRALTY Nautical Publications
- VIII Updates to ADMIRALTY Digital Services

For information on how to update your ADMIRALTY products using ADMIRALTY Notices to Mariners, please refer to NP294 How to Keep Your ADMIRALTY Products Up-to-Date.

Mariners are requested to inform the UKHO immediately of the discovery of new or suspected dangers to navigation, observed changes to navigational aids and of shortcomings in both paper and digital ADMIRALTY Charts or Publications.

The H-Note App helps you to send H-Notes to the UKHO, using your device's camera, GPS and email. It is available for free download on Google Play and on the App Store.

The Hydrographic Note Form (H102) should be used to forward this information and to report any ENC display issues.

H102A should be used for reporting changes to Port Information.

H102B should be used for reporting GPS/Chart Datum observations.

Copies of these forms can be found at the back of this bulletin and on the UKHO website.

The following communication facilities are available:

NMs on ADMIRALTY website: Web: admiralty.co.uk/msi

Searchable Notices to Mariners: www.ukho.gov.uk/nmwebsearch Urgent navigational information: e-mail: navwarn Phone: +44(0)1823 353448

Fax: +44(0)1823 322352 e-mail: sdr@ukho.gov.uk (see back pages of this Weekly Edition) Post: UKHO, Admiralty Way, Taunton,

Somerset, TA1 2DN, UK All other enquiries/information

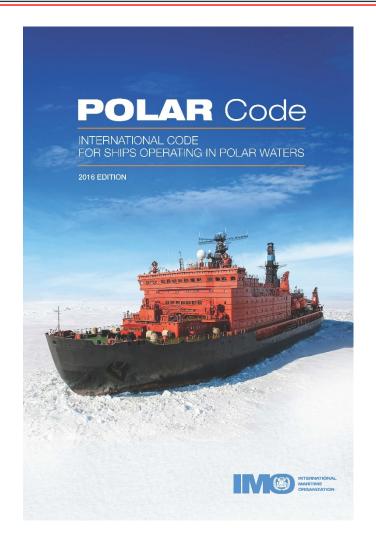
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6. Check the "Polar Code"



http://www.imo.org/en/MediaCentre/HotTopics/polar/PublishingImages/Pages/default/Polar%20Code%20front%20cover 2016%20edition%20%282%29.jpg



- 7. Prepare the radio communication for the route
 - SAR Operations
 - Reporting Procedure

- 8. Check for additional information
 - Agents
 - Company
 - Captain
 - Vessel in the same trade

ADDITIONAL PREPARATION



Google

- 1. Wikipedia
- 2. IMO
 - Summary of "Polar Code"
 - Two explanatory videos
 - Posters
- 3. PAME 4th result

Polar Code – Wikipedia

https://de.wikipedia.org/wiki/Polar_Code ▼

Der Polar Code (eigentlich International Code for Ships Operating in Polar Waters, englisch für Kevin McGwin: Lloyd's guidelines to "complement" Polar Code, The Arctic Journal – Website, 18. März 2014. Abgerufen am 8. Januar 2017.

Inhalte \cdot Zertifizierung von Schiffen \cdot Verhandlungspartner \cdot Bewertung & Kritik

International Code for Ships Operating in Polar Waters - Wikipedia

https://en.wikipedia.org/.../International_Code_for_Ships_Operati... ▼ Diese Seite übersetzen
The International Code for Ships Operating in Polar Waters or Polar Code is an international ... The
Polar Code is a proposed binding international framework to protect the two polar regions—Arctic
(north pole region) and Antarctic (south pole ...

The Polar Code - PAME

https://www.pame.is/index.php/projects/arctic.../the-polar-code ▼ Diese Seite übersetzen
Only vessels that intend to operate within the Arctic and Antarctic areas as defined in the Polar Code
need to comply with the code. The areas are as follows ...

[PDF] IMO Polar Code Advisory - American Bureau of Shipping

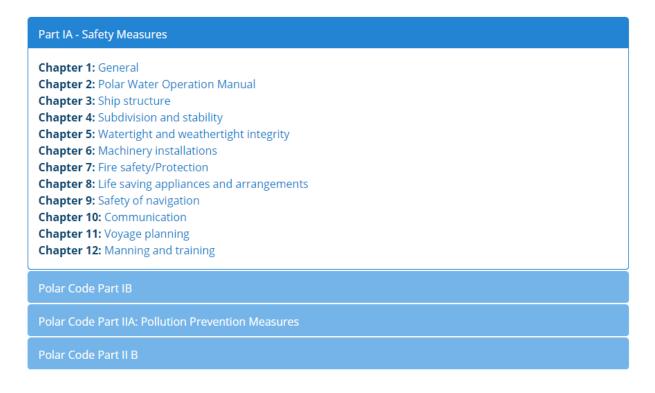
https://ww2.eagle.org/.../ABS_Polar_Code_Advisory_15239.pdf ▼ Diese Seite übersetzen Drivers for the Mandatory Polar Code Section 1 IMO Polar Code Overview Canadian Arctic Ice Regime Shipping System .

ARCTIC SHIPPING BEST PRACTICE INFORMATION FORUM



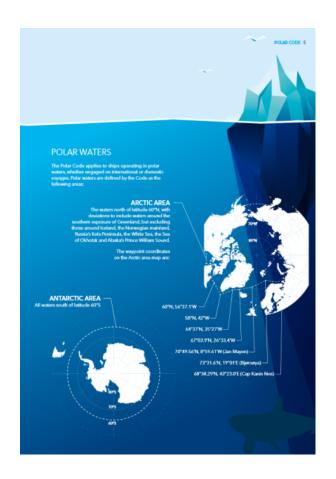
Plenty of practical information

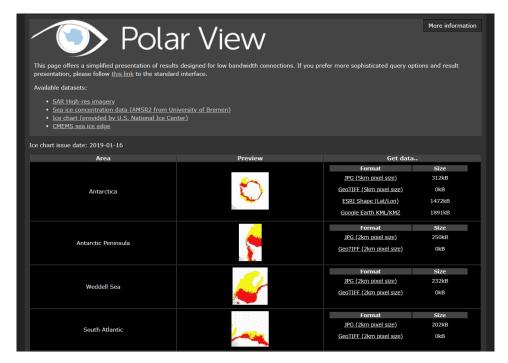
POLAR CODE CHAPTERS: EXPLANATION AND SUBMISSIONS



ARCTIC SHIPPING BEST PRACTICE INFORMATION FORUM







https://www.polarview.aq/tablelisting/nic

Polar Code. Understand the code's requirements to take the right steps for smooth compliance. (Page 5)

SUMMARY, FINDINGS & RECOMMENDATION



• The Arctic Best Practise Shipping Forum is really useful as it contains practical advice as well as further navigational information for instance

 The layout of the forum is perfectly divided, like the polar code, so it is easy to search precisely for the relevant information

SUMMARY, FINDINGS & RECOMMENDATION



At sea internet access is limited

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Time pressure



Mariners are dependent on reliable, offline, fast, correct and available information.

SUMMARY, FINDINGS & RECOMMENDATION



Mariners are dependent on reliable, offline, fast, correct and available information.

- Arctic Best Practise Shipping Forum is only available online
 - → Offline
 - → Alternatively a new and easily accessible website (low bandwith)
 - → Sometimes data cannot be accessed or used by Mariners
- Planning Chart like Port Approach Guide
- Inform nautical universities and shipping companies about the work of PAME and the Arctic Council
 - → Information brochures
 - → Presentations
 - → Videos



Thank you for your attention