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

Katharina Kaiser
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.

• Katharina Kaiser
• Student at the Jade University of Applied Sciences in Elsfleth / Germany
  • Course: Nautical Science and Maritime Transport
  • 5th Semester
1. Voyage Preparation

2. Additional Preparation

3. Summary, Findings & Recommendations
1. Receiving the order for the new port

22.11.2018

Dreamshipping

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 qty. for total voyage
incl. safety margin 3 days.

LAYCAN 24.12.18 to 27.12.18

Cargo to be loaded:

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”
VOYAGE PREPARATION
5. Check the “Notices to Mariners”
6. Check the “Polar Code”

http://www.imo.org/en/MediaCentre/HotTopics/polar/PublishingImages/Pages/default/Polar%20Code%20front%20cover_2016%20edition%2082%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
• Plenty of practical information

**POLAR CODE CHAPTERS:** EXPLANATION AND SUBMISSIONS

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Polar Code Part 1B

Polar Code Part IIA: Pollution Prevention Measures

Polar Code Part II B
Polar Code. Understand the code’s requirements to take the right steps for smooth compliance. (Page 5)
• 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
At sea internet access is limited
+
Time pressure

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