Arctic Regional Hydrographic Commission (ARHC) St. Petersburg, Russian Federation October 28-30, 2015

Status Report on AVPG Project and Proposal for an ARHC AVPG Portal

Submitted by: United States of America, Denmark, Canada

Executive Summary:

Beginning in 2010 at the ARHC-1, member states agreed to pursue collaboration on assembling maritime voyage planning information for Arctic waters. At ARHC-4, member states and the IHO agreed to a path forward with individual member states producing voyage planning guides for web-based users to access information. This report provides a record of the project, a current status, and a proposed portal designed for users to have common access through the IHO ARHC website.

Related Documents:

ArHC2-06A Establishment of a Mariners Routeing Guide for the Arctic – Status report, by Denmark ARHC2-06B A Web-based Arctic Mariners Routeing Guide

ARHC3-3.2_INF1 Proposed Canadian Arctic Voyage Planning Guide (2)

ARHC3-3.3INF2 INF Paper on Mariners Routeing Guide

ARHC4-3.3 Harmonization of Arctic Voyage Planning Guides for Pan Arctic Coverage

Related Projects:

Introduction/Background

ARHC-1 member states decided that a "working group [be formed] to develop the Mariner Routeing Guide for the Arctic concept be established under the Chair of Denmark and assisted by the United States." 1

ARHC-2, member states discussed the report of the Arctic Mariner Routeing Guide working group and "agreed that a product of this type was an appropriate activity of the ARHC though further stakeholder investigation was now required to identify the most suitable content along with the appropriate governance structure and specific national interest items."²

ARHC-3 "the common term Arctic Voyage Planning Guide was unanimously adopted by the ARHC." And action item ARHC3-14 "Canada to convene USA and Denmark to commence drafting the Arctic Voyage Planning Guide."

ARHC-4, U.S., Canada, and Denmark proposed a minimum presentation standard for the AVPG that included the following theme: Carriage requirements, Regulatory Requirements, Arctic Environmental Conditions, Route Planning, Reporting and Communicating, Marine Services, Nautical Charts and

¹ http://www.iho.int/mtg docs/rhc/ArHC/ArHC1/ARHC1 Report.pdf

² http://www.iho.int/mtg_docs/rhc/ArHC/ArHC2/ArHC2_Report.pdf

Publication. In addition, the committee recommended AVPGs developed by Member States incorporate two key principles for product delivery: 1) Web interface and 2) Printability.³

Also at ARHC-4, the IHB agreed to host a portal site and provide links to member state voyage planning guides. Action ARHC4-04 called on the U.S. to liaise with the IHB for hosting a web site location for the Voyage Planning documents. This was completed in 2014. The IHB also adopted a disclaimer policy subsequently posted to the IHB webpage.

Relevant sites currently available:

ARHC	http://www.iho.int/srv1/index.php?option=com_content&view=article&id=435&Itemid					
Website	=690⟨=en					
Canada	http://geoportail-geoportal.gc.ca/eng/Gallery/mapprofile/5					
Denmark	http://eng.navigation.gl/					
Norway						
Russia	http://asmp.morflot.ru/en/celi_funktsii/					
United States	http://www.nauticalcharts.noaa.gov/avpg/guide.htm					
of America						
PROPOSED	See Appendix A. This hyperlink would be offered on the IHO's ARHC meeting website.					
IHO ARHC						
Hyperlink						
PROPOSED	See Appendix B. This full page portal would offer the users direct linkage to five voyage					
IHO AVPG	planning sites.					
Portal						
IHO	http://www.iho.int/srv1/index.php?option=com_content&view=article&id=618&Itemid					
Disclaimer	<u>=854⟨=en</u> .					
	See also Appendix C					

Analysis/Discussion

IHO ARHC Meeting site Hyperlink to IHO AVPG portal

This site provides a convenient hyperlink for internet users interested in the work of Arctic Regional Hydrographic Organization allowing access to specific sites managed directly by the members of the ARHC. See Appendix A for design proposal.

IHO Portal

A concept of a portal was presented at ARHC-4 and is offered for formal consideration at ARHC-5 for the purposes of launching the service. The portal would be maintained by the IHB on their ARHC website and provide links to member state managed arctic voyage planning guides. A copy of a proposed portal is provided as Appendix B.

Posting the portal on the ARHC IHO website would provide the benefit to raise visibility and awareness of the ARHC and its operations.

³ http://www.iho.int/mtg docs/rhc/ArHC/ArHC4/ARHC4-

^{3.3}_Arctic_Voyage_Planning_Guide_Drafting_Team_Proposal.pdf

The U.S. suggests at subsequent full meetings of the ARHC, alternative designs could be offered and which could emphasize different Arctic views or design improvements.

IHO Disclaimer

The IHO disclaimer policy, Privacy, and Copyright Notice concerning information that can be accessed via the IHO website is posted on the website. The disclaimer notes Information appearing on this website is not intended to reflect an interpretation by the IHO or any of its Member States of any law or policy referenced" and "is offered without prejudice to, or limitation on, any view of position that may be taken by the IHO or an IHO member State regarding any matter or issue."

AVPG Content

Annex D provides a framework for an initial rapid assessment as to the content of the identified AVPGs compared to ARHC4-3.3 "Harmonization of Arctic Voyage Planning Guides for Pan Arctic Coverage" document.

It appears the content of the available AVPGs meets the intended requirements.

Printability

While originally envisioned as a web accessible information service with print options, none of the sites appear readily printable in current form.

Maintenance

Each member state is responsible for maintaining the content of their respective site.

The IHB maintains the link on the ARHC meeting site and the AVPG Portal.

Recommendations

- Note this report
- Discuss at ARHC-5 and consider appropriate actions related to launching, improving, and maintaining the AVPG information service for mariners contemplating navigation in the Arctic.

Action Required of ARHC

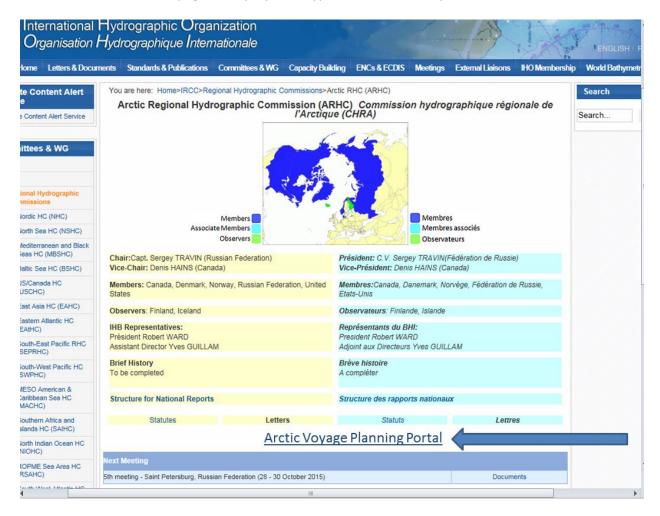
The ARHC is invited to:

- 1. Review the attached proposed Portal
- 2. make any adjustments and decisions as warranted.

⁴ http://www.iho.int/srv1/index.php?option=com_content&view=article&id=618&Itemid=854&lang=en

Appendix A

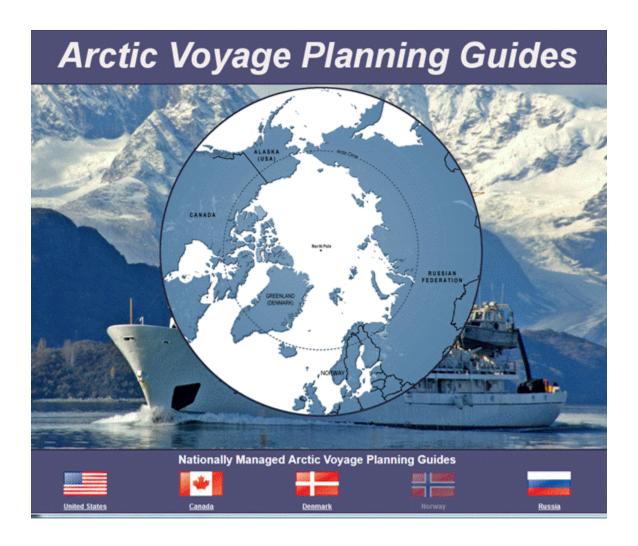
IHB maintained ARHC webpage⁵ with proposed hyperlink to the AVPG portal.



⁵ http://www.iho.int/srv1/index.php?option=com_content&view=article&id=435&Itemid=690&lang=en

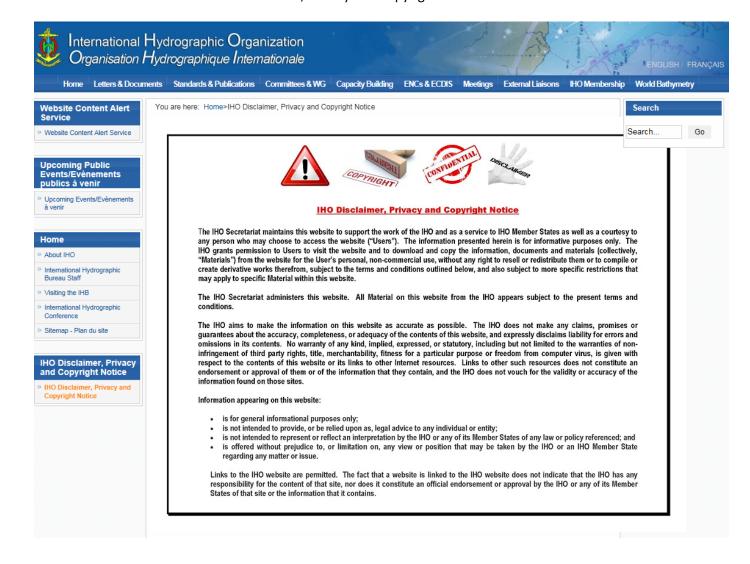
Appendix B

Proposed initial design of an AVPG portal which would provide the user with hyperlinks to voyage planning information from the member states of the ARHC. Portal is hosted on IHB server. User would click on the flag and be directed to the corresponding site listed in table above.



Note: flags are illuminated where AVPG links have been provided or are known as of September 15, 2015. By clicking on the flag, the user will be directed to the relevant site.

IHO Disclaimer, Privacy and Copyright Notice



Appendix D

Information Content Identified by the ARHC for Arctic Voyage Planning Guides From ARHC4-3.3 "Hamonization of Arctic Voyage Planning Guides for Pan Arctic Coverage"

		Canada	Denmark	Norway	Russia	USA
Theme 1:	Navigational					
Carriage	Warnings Services					
Requirements	Radio Aids to					
	Navigation					
	List of Lights and					
	Buoys and Aids to					
	Navigation					
	Nautical Charts and					
	Publications					
	services					
Theme 2	Acts and					
Regulatory	Regulations specific					
Requirements	to marine					
	navigation (similar					
	to S-49 E.3.2)					
	IMO Guidelines for					
	Operating in Polar					
	Waters					
Theme 3 Arctic	Communities and					
Environment	Populated Areas					
Considerations	Information					
	Weather Station					
	Locations and					
	Services Available					
	(similar to S-49					
	E.4.2 and U.4))					
	Airports and					
	Hospitals					
	Resource					
	Development					
	Significant					
	Locations					
Theme 4 Route	Traditional Traffic					
Planning	Routes (similar to					
	S-49 E.3.2)					
	Controlled					
	Navigational Areas					
	including Vessel					
	Traffic Services					
	Zones					
	Limiting Depth For					

	I a	1		T	
	Constricted				
	Waterways				
	Tide, Current and				
	Water Level				
	information (similar				
	to S-49 U.6.1)				
	Environment				
	Protected Areas				
	Major Aids to				
	Navigations (similar				
	to S-49 E.1.2 and				
	U.1.2)				
	Places of refuge or				
	Pilot Boarding				
	Stations (similar to				
	S-49 E.1.5)				
	Calling-in Points				
	(similar to S-49				
	E.4.1)				
Theme 5	Areas of Legislative				
Reporting and	Importance to				
Communicating	Navigation				
	Marine				
	Communication				
	Services (similar				
	calling-in info to S-				
	49 E.4.1)				
Theme 6	Ice Breaking				
Marine	Support Services				
Services					
	Search and Rescue				
	Support Services				
	Ice Services				
	Information (similar				
	to S-49 U.6.4)				
Theme 7	Nautical Chart				
Nautical Charts	Catalogue and				
and Publication	Coverage				
	Publication				
	Catalogue and				
	Coverage				
		1	I	I	1