



INTERNATIONAL HYDROGRAPHY ORGANIZATION

DIRECTORATE OF HYDROGRAPHY AND
NAVIGATION (DHN)



MARITIME SAFETY INFORMATION (MSI) TRAINING COURSE

Date of report: 09 November 2018

Course: Maritime Safety Information (MSI) Training Course.

Date: 16 to 18 October, 2018.

Venue: Directorate of Hydrography and Navigation (DHN), Niterói, Rio de Janeiro, Brazil.

Instructors: Both instructors are from USA National Geospatial-Intelligence Agency. Mr Christopher G. Janus is the Branch Chief Notice to Mariners at the Maritime Safety Office, and Mr. Peter M. Doherty is the Deputy Director for NGA's Foundation GEOINT NSG Operations Executive (NOX) Office, Chair of the WWNWS and the Lead Instructor for the MSI training.

Instructional Support: Captain (Ret.) Luiz Claudio Monteiro da Fonseca (SWAtHC Capacity Building Coordinator) and Captain Sebastião Simões de Oliveira (Director of the Brazilian Navy Hydrographic Center).

Opening Address: Captain Sebastião Simões de Oliveira (CHM)

Administrative Support: Captain (Ret.) Luiz Claudio Monteiro da Fonseca (CB Coordinator).

Participants (18): Brazil (6), Argentina (2), Uruguay (1), Bolivia (1), Peru (1), Ecuador (1), Venezuela (1), El Salvador (1), Guyana (1), Paraguay (1), Colombia (1) and Liberia (1). (**Annex A**)

Introduction

On 16-18 October 2018, a Maritime Safety Information (MSI) Training Course to benefit countries in the area of influence of the Southwest Atlantic Hydrographic Commission (SWAtHC) was held at the Directorate of Hydrography and Navigation of Brazilian Navy (DHN) on behalf of the International Hydrographic Organization (IHO) Capacity Building Sub-Committee (CBSC) and the IHO's World-Wide Navigational Warning Service Sub-Committee (WWNWS-SC). The SWAtHC invited representatives from two others Latin American Hydrographic Commissions, the Southeast Pacific Regional Hydrographic Commission (SEPRHC) and the MesoAmerican and Caribbean Sea Hydrographic Commission (MACHC). Also, in order to publicize the importance of the subject as well as to disseminate the Capacity Building training program available to IHO members, it was possible to register a representative of Liberia.

This training provided the opportunity for representatives of Regional Hydrographic Communities to gain insight into the importance of the MSI and how to act to report certain events preventing a significant impact on the safety of navigation within its coastal region.

Objective

The objectives of this training course was to provide a practical guidance for drafting navigational warnings, explaining and demonstrating how the SafetyNET and NAVTEX services work together in order to increase the availability of MSI in the South West Atlantic Hydrographic Commission, as well as in the others Latin American hydrographic commissions areas.

Content

The Course content (Annex B) included all aspects of the importance of the WWNWS, the MSI and the role of the NAVAREA application to navigational warning. The participants engaged in practical exercises to demonstrate their proficiency in the subject areas including charting. Specifically they were informed of all events that could significantly affect the safety of navigation within their coastal region, assessed all the information in the light of the specialized knowledge of relevance for navigation in the coastal region, developed navigation alerts in accordance with the IMO / IHO / WMO Manual on MSI and performed a series of hands-on exercises simulating the publication of NAVAREA Warnings for further promulgation to the NAVAREA Coordinator, using the quickest means possible.

The course was presented over a period of 3 days, which included many practical exercises.

Instruction

Lectures was carried out by Peter M. Doherty and Christopher G. Janus, both from USA National Geospatial-Intelligence Agency, who shared the presentation duties. As respectively the Deputy Director for NGA's Foundation GEOINT NSG Operations Executive (NOX) Office and the Branch Chief Notice to Mariners at the Maritime Safety Office, Mr. Doherty and Mr. Janus demonstrated a great technical knowledge about the subject and were able to pass much of their experiences in navigational warnings to the students.

A high level of interaction between the instructors and the participants was achieved. All the participants were actively encouraged to discuss the course content and to clarify any doubt.

It was strongly emphasized to the participants that when they returned to their countries they should establish contact with the NAVAREA Coordinator in order to seek the accomplish of the first steps to improve the dissemination of MSI messages in their area.

At the end of the course, all of the participants were provided with digital media containing copies of the class presentations, the printed material and others publications about MSI. They are now able to transmit what has been learned and be a knowledge multiplier within their respective hydrographic services.

Participants / Language

The course was all taught in English. However, the participants of the same language were encouraged to help others who presented difficulties of understanding. Thus this effort ensured that they achieved all teaching goals.

Facilities / Support

The training course took place at the Brazilian Navy Hydrographic Center (CHM) meeting room, wich proved to be a well-equipped place. Accommodation, breakfasts and dinners for the instructors and foreign students were at the H Niterói Hotel, a high quality hotel close to DHN. The Navy Hydrographic Base at Niterói (BHMN) support team performed local transportation, printed all the required charts and documents and provided all the necessary material support for the instructors and students. All printed material was provided by the instructors, except the nautical

charts, which was just indicated by them. For future courses, the CHM shows up able to hold similar events.

During the course, students visited the NAVAREA V installations, located in the CHM.

Acknowledgements

To the IHO/CBSC that funded the costs related to lectures, accommodation and flight tickets for foreign students. To the CHM that provided meeting room and organized the coffee breaks. To the BHMN which provided the meals, the local transportation and printed the didactic material and certificates. Finally, to the DHN who authorized all of this to happen.

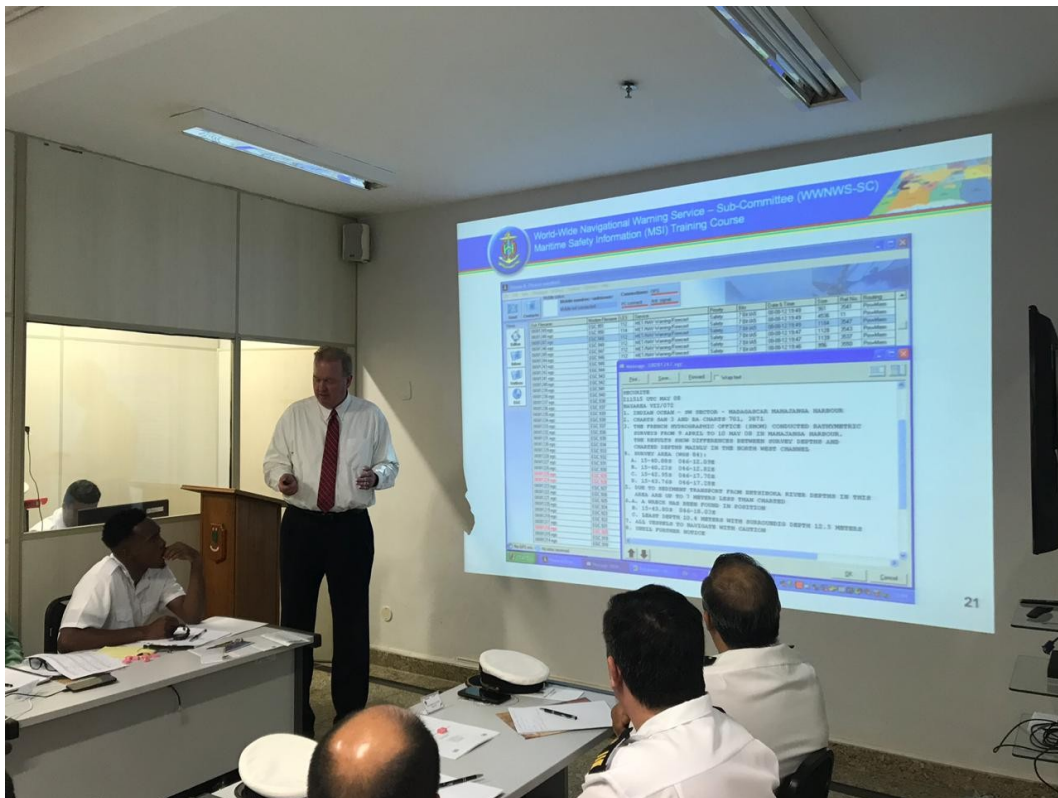
Conclusion

This training provided extremely practical guidance for the development of navigational warnings, explaining and demonstrating how SafetyNET and NAVTEX services work together. The course has proved to be an important tool to increase the availability of MSI in the Regional Hydrographic Community as well as a first step to be taken by countries wishing to establish safer navigation in their waters. All the objectives were met and the overall assessment of the course, made by the analysis of the participants' feedback (**Annex C**), recorded the score of 98% of answers rated at Very Good or Excellent.

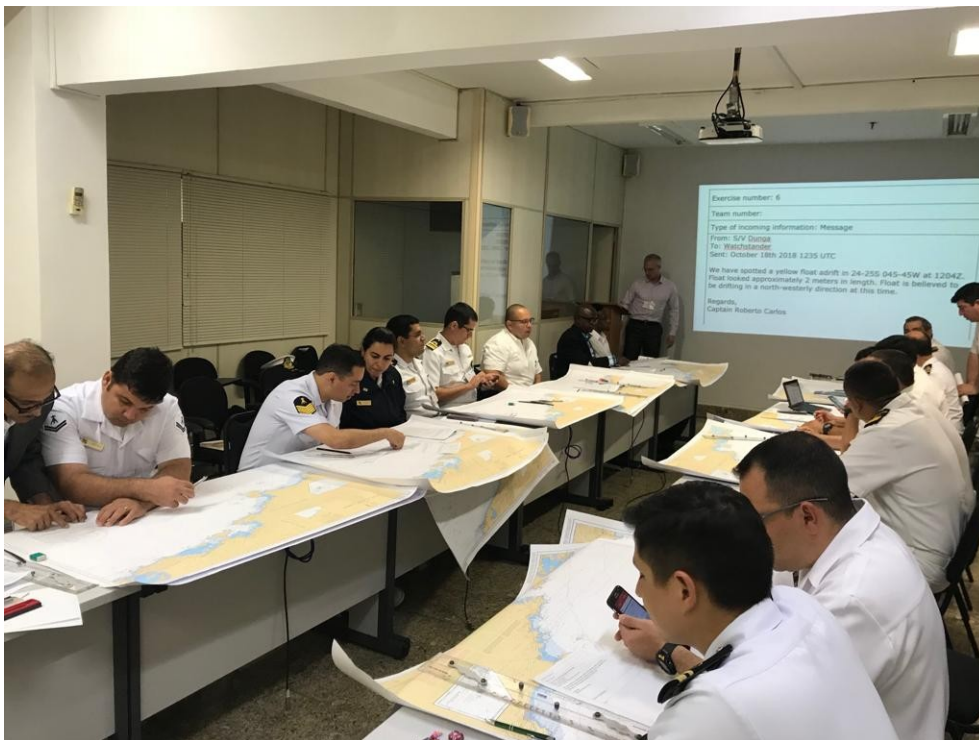
Course photos




Official photo. Vice Admiral Garcez (DHN Director) and Captain Sebastião (CHM Director) in the center with both Instructors, Students and the Support Team.



Mr. Peter Doherty in one of his lectures.



Students during a practical exercise with Mr. Christopher Janus.


 Captain (Ret.) LUIZ CLAUDIO Monteiro da Fonseca
 SWATHC/Capacity Building Coordinator
 Project Leader

ANNEX A

LIST OF PARTICIPANTS, MARITIME SAFETY INFORMATION (MSI) TRAINING COURSE, DHN, NITERÓI, RJ, BRAZIL

Instructors:


	Surname	First Name	Country	Org.	Rank/ Title	E-mail:	Telephone
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Trainees:

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 Captain (Ret.) LUIZ CLAUDIO Monteiro da Fonseca
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ANNEX B

SYLLABUS AND TIMETABLE


IHO MARITIME SAFETY INFORMATION (MSI) TRAINING COURSE				
SYLLABUS AND TIMETABLE – DHN, BRAZIL 16-18 OCTOBER 2018				
Time	Session	16 October	17 October	18 October
0900-1030	First session	Welcome	National Coordinator Requirements	Practical exercise Day 2 review Message formatting
		Administration – Introduction of participants	NAVARAEA V Overview	Chart updating & liaison with charting HO
		Introduction to GMDSS	MSI Manual	Practical Exercise “A day in the life of a National Coordinator”
1030-1045	Coffee			
1045-1200	Second session	Introduction to GMDSS (Continued)	NAVAREA V Installation visit	Practical Exercise “A day in the life of a National Coordinator”
		Introduction to WNWNS		
1200-1300	Lunch			
1300-1430	Third session	Introduction to MSI	Practical Exercise Information assessment for Navigation Warnings	Practical Exercise “A day in the life of a National Coordinator”
		Introduction to the SafetyNET System		
1430-1445	Coffee			
1445-1700	Fourth session	Introduction to the NAVTEX System	Practical Exercise Information assessment for Navigation Warnings	Practical Exercise Review
		WWNWS Guidance Documents		Lessons Learned
				Closing Remark

ANNEX C

MARITIME SAFETY INFORMATION (MSI) TRAINING COURSE – THE STUDENTS’ FEEDBACK

Question	Bad	Regular	Good	Very good	Excellent	Total
The overall assessment of the course			1	3	14	18
The objectives were achieved			1	2	15	18
The instructors assessment, related to teaching techniques				3	15	18
The instructors assessment, related to positioning knowledge				1	17	18
The general organization of the course				6	12	18
The assessment of course support infrastructure				6	12	18
The assessment of the didactic material			1	4	13	18
Future perspectives – Impact on future development				6	12	18

Very Good / Excellent: 97,92%


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