MSI Self Assessment NAVAREA XVII_XVIII

Submitted by Canada (Canadian Coast Guard)

SUMMARY

Executive Summary: Summary of activities within NAVAREA XVII_XVIII since the WWNWS-8

Action to be taken: Please note this report.

Related documents:
Joint MET/NAVAREA XVII_XVIII Client Survey (see 2.1)
Canada's Progress towards a new Navigation Warning System (see 2.2)

1. Background:

NAVAREA XVII boundary limits:
67° 00′ .00N 168° 58′ .00W
90° 00′ .00N 168° 58′ .00W
90° 00′ .00N 120° 00′ .00W
south to the Canadian coastline along the 120° 00′ .00W meridian;

NAVAREA XVIII boundary limits:
A position on the Canadian coastline at the 120° 00′ .00W meridian to:
90° 00′ .00N 120° 00′ .00W
90° 00′ .00N 035° 00′ .00W
67° 00′ .00N 035° 00′ .00W

Scheduled Broadcast Times:

NAVAREA	Ocean Region	(UTC)
XVII	POR	1130 and 2330
XVIII	AOR-W	1100 and 2300
HF NBDP (XVII & XVIII)		0330 and 1530

During the Arctic navigational season, NAVAREA warnings and METAREA information are broadcast twice daily by means of HF Narrow Band Direct Printing (NBDP) on the 8 MHz (8416.5 kHz) maritime safety information (MSI) frequency for some arctic waters in the Canadian Search and Rescue Region which are not covered by the INMARSAT SafetyNET service.

Operational Points of Contact for National Co-ordinators within the NAVAREA

COUNTRY	INSTITUTION	TELEPHONE	FACSIMILE	EMAIL
Canada	Coast Guard	613-925-4471	613-925-4519	navarea17.18@innav.gc.ca

2. Comments:

Canadian content in the GMDSS Master Plan is accurate as of GMDSS.1/Circ.21 May 2017.

Equipment Type	Software Version	Date of Up-date
Inmarsat-C	easyMAIL 1.15	
Thrane & Thrane Sailor TT-3026/s maritime mini-c easyTrack transceivers	Build 27	2008-09-16
HF-NBDP Equipment	**Brand**	**Model**
Transmitter	Harris (5KW)	RF-1165A
Antenna (Broadband Dipole)	Andrew	1765
Receiver	Harris	RF-590A
Antenna (Quadrature Fed Loop Antenna)	TCI	625L
DSC2 Workstation Version 2.6 (1996-2002)	ICS Electronics	

Specifics of information and data received NAVAREA XVII:

2014				2015				2016			
E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text
88	0	2	0	87	0	0	0	81	0	0	0

Specifics of information and data received NAVAREA XVIII

2014				2015				2016			
E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text
123	0	0	0	98	0	0	0	93	0	0	0

NAVAREA Warnings Promulgated during last 3 years:

	2014	2015	2016
NAVAREA XVII	144	140	137
NAVAREA XVIII	177	154	153
HF-NBDP XVII*	114	98	59
HF-NBDP XVIII*	142	102	133

* Iqaluit MCTS Centre's HF-NBDP broadcast numbers are always lower than the NAVAREAs given that the Centre is only open during the Arctic navigational season.

The number of NAVAREA warnings identified as immediate priority (requiring transmission within 30 minutes) and the average elapsed time per broadcast via SafetyNET:

NAVAREA XVII

2014		2015		2016	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
27	69 mins	18	26 mins	20	41 mins

NAVAREA XVIII

2014		2015		2016	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
29	68 mins	21	26 mins	38	43 mins

Notes:

- There was one NAVAREA XVII warning which was Urgent priority.
- The remaining were routine (Safety) priority for radio services at Iqaluit MCTS Centre.

Specifics of requests for list of in-force navigation warnings:

NAVAREA XVII

2014		2015		2016	
Total	E-mail	Total	E-mail	Total	E-mail
0		0		0	

NAVAREA XVIII

2014		2015		2016	
Total	E-mail	Total	E-mail	Total	E-mail
0		0		2	2

2.1 Joint MET/NAVAREA XVII_XVIII Survey

As part of a condition for ongoing funding to support Canada's commitment to MET/NAVAREAs XVII_XVIII, the Canadian Coast Guard (CCG) and Environment and Climate Change Canada (ECCC) were required to conduct a client-focused survey.

This survey, comprised of 14 very specific questions, was launched July 4th, 2017 by a directed email campaign targeting maritime interests proceeding to and/or working within the Canadian Arctic MET/NAVAREAs.

Once the survey is completed, both Departments will analyze their respective data and generate a formal report. Survey questions are contained in the accompanying document.

2.2 Canada's Progress towards a new Navigation Warning Issuing System

Canada is approaching initial test phase of its new navigation warning (NAVWARN) issuing system. The web-based system is based on the Danish ACCESEAs model which was a preliminary contribution to the discussions of the S-124 Correspondence Group.

Permission is being sought through our security department to conduct a live demonstration for the meeting in South Africa.

In the meantime, a presentation providing some highlights of the NAVWARN system can be found in the accompanying PowerPoint.

3. NAVTEX Coverage:

There are no Canadian NAVTEX transmitters within NAVAREAs XVII or XVIII.

Although the NAVTEX transmitter located in Iqaluit, Nunavut (63 43N 68 33W) as operated by Iqaluit Marine Communications and Traffic Services (MCTS) Centre on a seasonal basis, it provides very limited coverage into NAVAREA XVIII. All information broadcast by the Iqaluit transmitter is associated with NAVAREA IV. The Canadian Coast Guard has no plans to expand NAVTEX coverage into Arctic waters.

The Danish Maritime Authority has three operational NAVTEX transmitters in West Greenland located at: Upernavik [I], Simiutaq [M] and Igdlutaligssuaq (NUUK) [W].

Canada is working to define Coverage and Service Areas for each NAVTEX transmitter. Once these have been finalized, appropriate diagrams will be submitted to the Chair, NAVTEX Coordinating Committee.

Canadian International NAVTEX Transmitters and Contact details:

NAVAREA IV				
NAVTEX Transmitter	Ident	Position	Controlled by	Telephone
Robin Hood Bay	O	47º36'N 52º40'W	Placentia MCTS	709-227-2182
Cartwright	X	53º42'N 57º01'W	Labrador MCTS	709-896-2252
Port Caledonia	Q	46º11'N 59º54'W	Sydney MCTS	902-564-7751
Chebogue	U	43º45'N 66º07'W	Halifax MCTS	902-426-9750
Moisie	C	50º15'N 66º10'W	Les Escoumins MCTS	418-233-2194
Pass Lake	P	48º34'N 88º39'W	Sarnia MCTS	519-336-4003

NAVAREA IV				
NAVTEX Transmitter	Ident	Position	Controlled by	Telephone
Ferndale	H	44º56'N 81º14'W	Prescott MCTS	613-925-4471
Iqaluit	T	63º43'N 68º33'W	Iqaluit MCTS	867-979-0310

NAVAREA XII				
NAVTEX Transmitter	Ident	Position	Controlled by	Telephone
Amphitrite Point	H	48°55'N 125°32'W	Prince Rupert MCTS	250-627-3074
Digby Island	D	54°17'N 130°25'W		

* As of July 21th, 2017, Iqaluit MCTS Centre reports that the Iqaluit NAVTEX transmitter is unserviceable. The link between the tower and Centre is severed and the ground is still too frozen to dig up and affect repairs.
[Notice to Shipping A19/17 and NAVAREA XVIII 35/2017 refer]

4. Operational Issues:

Details of MSI information received and typical topics/subjects:

NAVAREA XVII

Coastal State/Country	Number of MSI messages	Topics/Subjects of messages
Canada – CCG Ops	1	Rocket launch
Canada – MCTS Iqaluit	10	Aids to navigation
Canada – MCTS Iqaluit	54	Radio services
French Guiana	3	Rocket Launch
Japan - Jamstec	5	Scientific moorings
USCG	2	Subsurface moorings
Navarea IV	1	Cable laying operations

NAVAREA XVIII

Coastal State/Country	Number of MSI messages	Topics/Subjects of messages
Canada – MCTS Iqaluit	8	Aids to navigation
Canada – MCTS Iqaluit	66	Radio services
Canada –MCTS Iqaluit	3	Shoals
Canada –MCTS Iqaluit	1	Mooring
Canada – NTM or CHS	5	Chart corrections
Canada - CCGS	3	Scientific moorings, shoal
French Guiana	5	Rocket launch
Navarea - Russia	1	Rocket launch

NTM – Notice to Mariners
CHS – Canada Hydrographic Services

- No new infrastructure in accordance with GMDSS Master Plan.
- Other than the Iqaluit NAVTEX being unserviceable, no new problems have been encountered.

A NAVAREA "In Force Warning" bulletin is issued once weekly. Any "In Force" warning messages more than 42 days old are found on the Canadian Coast Guard website or can be requested by email.

- The complete text of all In-Force NAVAREA XVII and XVIII warnings found on the Canadian Coast Guard website: http://www.ccg-gcc.gc.ca/eng/ccg/notship-home

- These may also be requested by email from the NAVAREA Operations desk at: NAVAREA17.18@INNAV.gc.ca

- The information on how to find these warnings is promulgated as part of the text of the "In Force" bulletin.

5. Quality Management Survey

NAVAREA	ISO 9001 -2008	Promulgate "In-Force" Bulletins	Promulgate "No-Warning" Messages	Monitor Broadcast	24/7 contact information provided	Promulgate two scheduled broadcasts	IMO Master Plan updated
XVII XVIII	NO*	YES	YES	YES	YES	YES	YES

* The CCG-MCTS Program has just received funding to launch a project to develop a nation-wide Quality Management System which will meet the objectives of this standard.

6. Contingency Planning

NAVAREA XVII_XVIII, operates from a single location with all equipment fully redundant. Although there are established business continuity plans, these have not been exercised/tested. Contingency measures include requesting METAREA XVII_XVIII or adjacent NAVAREAs IV/XII to assist.

7. Capacity Building:

None required.

8. Other Activities of the NAVAREA Coordinator:

1. Provide assistance to the Canadian Coast Guard's e-NAV Program:
   a) which participates in the **IMO Correspondence Group** developing the "Guidelines for Harmonized Display of navigation information received via communication equipment"; and,

b) which participates in the **IALA** lead initiative on the development of "draft Guidelines on MSPs".

2. Member of the Canadian delegation to **IMO's NCSR**, with a focus on the GMDSS Radiocommunication Systems.

3. Participant of WWNWS – Draft Working Group.

4. Participant of WWNWS S-124 Correspondence Group.

5. Project Lead, Canadian Coast Guard - MCTS Program, for the new NAVWARN Issuing System web-application.

9. NAVAREA Website:

Website: www.ccg-gcc.gc.ca/eng/ccg/notship_home

- The website is updated shortly after the initial broadcast of a new NAVAREA warning.
- Mariners can search Broadcast Warnings for a specific NAVAREA or both NAVAREAs and may also select a broadcast period using the drop-down calendar.
- Mariners can search a list of the In-force Bulletins.
- The website does not display the date/time of the last update.
- Statistics are available by email request only.

10. NAVAREA Contact Information:

No changes to contact information. The SA Template (Annex A) is submitted with this report.

11. Recommendations:

None.

12. Actions requested:

Note the information provided.

13. Summary:

The NAVAREA XVII_XVIII Coordinator provided a summary of Canada's Self-Assessment Report to the sub-committee, including:

- Noting that technicians will begin work on repairing the Iqaluit NAVTEX transmitter once the ground has thawed sufficiently to permit them to dig up the transmission line between the tower and Centre.

- Indicating that Canada continues to work towards resolving inter-regional concerns over the establishment of formal Coverage and Service Areas for all NAVTEX transmitters. A report regarding these Coverage/Service Areas is expected to be presented to the IMO NAVTEX Coordinating Panel before the end of 2017.

- Providing a brief overview of the Joint MET/NAVAREA XVII_XVIII Client Survey, indicating that the formal assessment report will be submitted to the Committee later this year.

- Informing the Committee that Canada is hoping to provide a live demonstration on the latest developments of their web-based NAVWARN Issuing System.