

MSI Self-Assessment NAVAREA XVII and XVIII

Submitted by Canada / Canadian Coast Guard (CCG)

SUMMARY

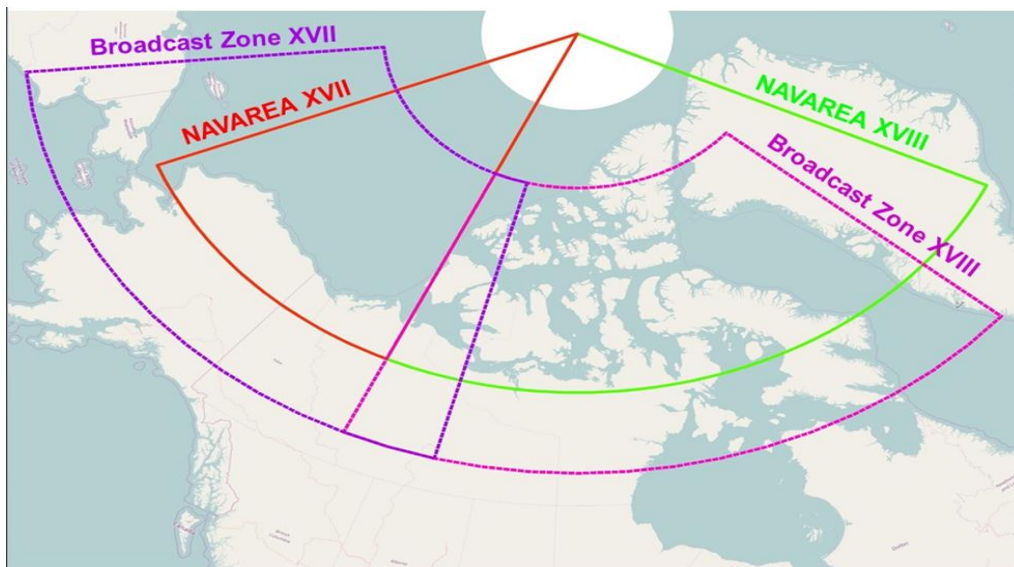
Executive Summary: Summary of activities within NAVAREAs XVII and XVIII since WVNWS-9

Action to be taken: Note the report

Related documents: Self-Assessment - Annex A

1. Background:

NAVAREA XVII limit	Rectangular Broadcast Zone
67°00N 168°58W 90°00N 168°58W 90°00N 120°00W	82°00N 175°00E 82°00N 120°00W 62°00N 120°00W 62°00N 175°00E
Thence, south to the Canadian coastline along the 120°00W meridian.	
NAVAREA XVII limit	Rectangular Broadcast Zone
A position on the Canadian coastline at the 120°00'.00W meridian to: 90°00N 120°00W 90°00N 035°00W 67°00N 035°00W	82°00N 120°00W 82°00N 035°00W 62°00N 035°00W 62°00N 120°00W



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 Point of Contact for National Co-ordinator 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	
Sailor TT-3026/s maritime mini-c	Build 27	2008-09-16
HF-NBDP Equipment	Prescom	2017-06-15
Transmitter SELEX 5kW	ST5000M	2017-06-15

NAVAREA XVII: (as of June 14th, 2018)

2016				2017				2018			
E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text
81	0	0	0	79	0	0	0	16	0	0	0

NAVAREA XVIII: (as of June 14th, 2018)

2016				2017				2018			
E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text
93	0	0	0	93	0	0	0	19	0	0	0

NAVAREA Warnings Promulgated during last 3 years: (as of June 14th, 2018)

	2016	2017	2018
NAVAREA XVII	137	130	40
NAVAREA XVIII	153	145	40
HF-NBDP XVII*	59	37	4
HF-NBDP XVIII*	133	116	6

* Iqaluit MCTS Centre's HF-NBDP broadcast numbers are lower than the NAVAREAs given that the Centre is only open during the Arctic navigational season, typically mid-May to mid-December.

Details of 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: (as of June 14th, 2018)

2016		2017		2018	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
20	41 Mins	16	40 Mins	1	45 Mins

NAVAREA XVIII: (as of June 14th, 2018)

2016		2017		2018	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
38	43 Mins	19	33 Mins	2	41 Mins

Requests for In-Force Warnings:

NAVAREA XVII: (as of June 14th, 2018)

2016		2017		2018	
Total	E-mail	Total	E-mail	Total	E-mail
0	0	0	0	0	0

NAVAREA XVIII: (as of June 14th, 2018)

2016		2017		2018	
Total	E-mail	Total	E-mail	Total	E-mail
0	0	0	0	0	0

3. NAVTEX Coverage:

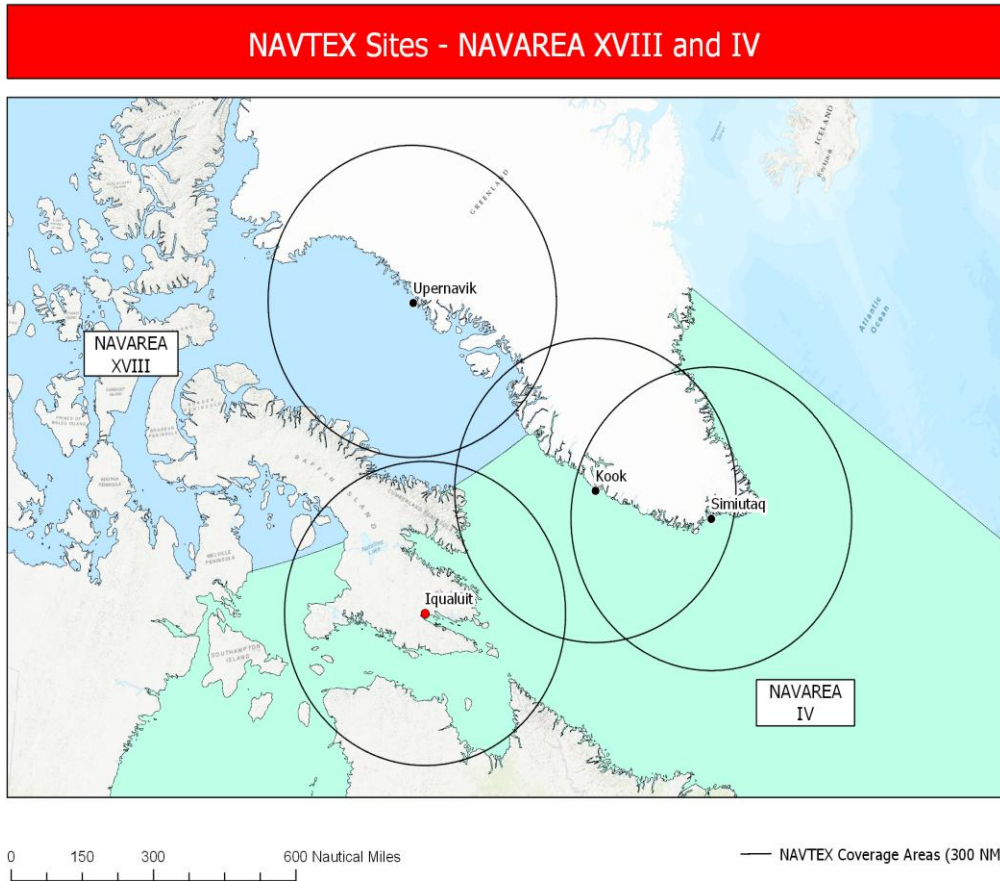
Denmark operates a NAVTEX transmitter from Upernavik, Greenland.

NAVTEX Transmitter	Ident	Position	Controlled by	Telephone
Upernavik	I	72°47'N 056°09'W	MCRCC Groennedal	299-691911

A Canadian 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, provides very limited coverage into NAVAREA XVIII.

The Canadian Coast Guard has no plans to expand NAVTEX coverage into Arctic waters.

The Danish Maritime Authority has two NAVTEX transmitters situated along the west coast of Greenland. Located at Simiutaq [M] and Igdlutaligssuaq (Kook Island) [W], these NAVTEX transmitters provide coverage into the southerly limit of NAVAREA XVIII and the northern limits of NAVAREA IV.



NAVTEX Transmitter	Ident	Position	Controlled by	Telephone
Iqaluit	T	63°43'N 068°33'W	Iqaluit MCTS	867-979-0310
Igdlutaligssuaq	W	64°04'N 052°01'W	MCRCC Groennedal	299-691911
Simiutaq	M	60°41'N 046°35'W	MCRCC Groennedal	299-691911

4. Operational Issues:

The Iqaluit NAVTEX was initially unserviceable when the Centre opened for the navigational season on May 15th, 2018.

However, the new NAVTEX replacement equipment was installed, tested and declared fully operational on June 7th at 1500 UTC.

NAVAREA XVII (as of June 14th, 2018)

Coastal State/Country	Number of MSI messages	Topics/Subjects of messages
Canada – CCG Ops	2	NORDREG
Canada – CCG Ops	6	Science
Canada – MCTS Iqaluit	15	Aids to navigation
Canada – MCTS Iqaluit	50	Radio services
Canada – French CNES	5	Rocket Launch
Canada – Japan (Jamstec)	3	Scientific moorings
Canada – Transport Canada	1	Marine Security

NAVAREA XVIII (as of June 14th, 2018)

Coastal State/Country	Number of MSI messages	Topics/Subjects of messages
Canada – DFO	11	Canadian Hydrographic Services
Canada – MCTS Iqaluit	62	Radio Services
Canada – CCG Ops	2	NORDREG
Canada – MCTS Iqaluit	8	Aids to Navigation
Canada – CCG Ops	4	Science
Canada – Russia (Roscosmos)	1	Rocket Launch
Canada – Transport Canada	1	Marine Security

There has been no new infrastructure in accordance with latest edition of the GMDSS Master Plan.

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

- * In September 2018, the Canadian Coast Guard – Marine Communications and Traffic Services (MCTS) Programme will launch a national Quality Management System which will meet the objectives of the ISO 9001-2008 standard. The domestic and international navigational warning services will be scheduled for review/assessment in the near future.

6. Contingency Planning

NAVAREA XVII/XVIII is operated from a single location with all equipment fully redundant and has an established business continuity plan.

On March 16th, 2018 a successful contingency test was conducted with NAVAREA IV, noting the following outcomes:

- i. NAVAREA IV sent test messages into NAVAREA XVII and XVIII using both our current rectangular coordinates and the established NAVAREA zones.
- ii. We observed that the centre INMARSAT mini-c receiver copied the transmissions which were directed into the advertised rectangular coordinates, but did not receive those sent directly to the NAVAREA zones.
- iii. NAVAREA IV received our test transmissions into IV and XII, though there were some delays in their reception as a result of the routing over their accessible receiver sites

NAVAREA XVII/XVIII is now working with our METAREA XVII_XVIII to conduct a similar contingency test in the near future.

7. Capacity Building:

There has been no offer of/demand for MSI training in Canada. However, with the development of the new national navigational warning issue system, there has been considerable national dialogue with other federal operational programmes which is helping to bring awareness to the development and life-cycle management of navigational warnings. This dialogue is bringing forth opportunities to enhance national consistency/efficiency in the navigational warning service.

8. Other Activities:

- a) Provide assistance to the CCG e-NAV Programme which participates in the:
 - i. **IMO Correspondence Group** developing the “Guidelines for Harmonized Display of navigation information received via communication equipment”;
 - ii. **IALA e-NAV Committee** which leads the initiative on the development of “draft Guidelines on MSPs”.
- b) Liaised with Canada Hydrographic Services (Regional Hydrographic Commission) and provided updates on the Canadian maritime safety information published in C55.
- c) Attended **IMO’s NCSR-5** as a member of the Canadian delegation with a focus on the GMDSS Radiocommunication Systems.

- d) Attended WWNWS – Draft Working Group, 16th session.
- e) Actively participate in the WWNWS S-124 Correspondence Group.
- f) As Project Lead for the new national NAVWARN System web-application, working on the national level to improve the navigational warning services, including the linkages to the Notice to Mariner process.
- g) Provided draft NAVTEX Service area proposals to both Denmark and the United States of America concerning transmitters with overlapping Coverage Areas.
 - a. Denmark has requested our Iqaluit and Cartwright Service Areas follow their formally declared service area boundaries where overlap may occur; and,
 - b. United States has not yet provided their feedback.
- h) Provided final imagery of proposed Service Areas to regional administrations for the remaining Canadian NAVTEX transmitters and currently awaiting their feedback.

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:

Please note the following correction for the NAVAREA Coordinator:

*CANADA (NAVAREA XVII & XVIII)
Miss Lucia Bakker
Operational Support
Canadian Coast Guard
Centennial Towers
200 Kent Street
Ottawa
Ontario K1A 0E6
Tel: + 1 613 323-6499
Fax: + 1 613 998-0460
E-mail: Lucia.Bakker@dfo-mpo.gc.ca*

11. Recommendations: None

12. Actions requested: Note the information provided

13. Summary:

The NAVAREA XVII/XVIII Coordinator introduced Canada's Self-Assessment Report, noting that the new NAVTEX transmitter was installed in Iqaluit after the Centre opened for the navigational season this spring. It's up and running smoothly now.

In March, Canada and the USA conducted a successful joint NAVAREA Contingency test. We noted that our INMARSAT receiver will only receive messages which are addressed to the advertised rectangular areas. Our receiver has not been updated to reflect the established NAVAREA boundaries. Given the success of this test, Canada MET/NAVAREAs are in discussions regarding conducting a similar contingency test in the near future.

Proposed NAVTEX Service Areas have been developed and sent to Denmark, United States of America and the relevant regional administrations in Canada. Denmark has requested that where our proposed boundaries may overlap, we cede to their already declared Service Area boundaries. Feedback from both the USA and Canadian regions is still pending.