

**MSI Self Assessment NAVAREAs XVII and XVIII**

Submitted by Canada / Canadian Coast Guard

**SUMMARY**

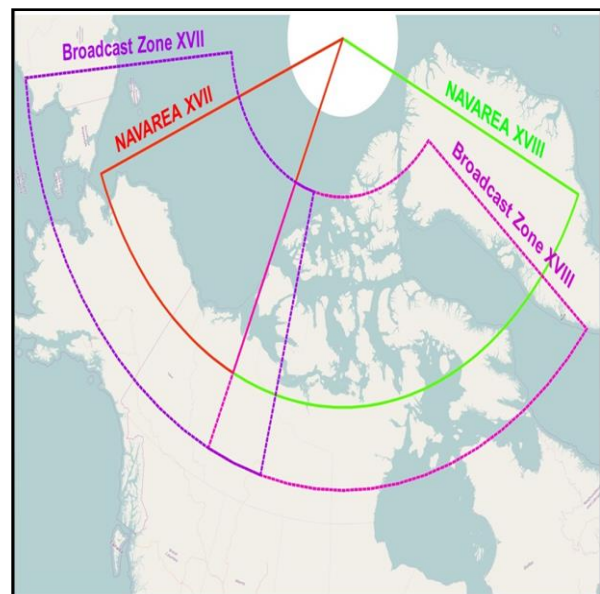
Executive Summary: Summary of activities within NAVAREAs XVII and XVIII since WWNWS-10

Action to be taken: Note the Report & Joint MET/NAVAREA XVII\_XVIII Client Survey  
Related documents: Joint 2017 MET/NAVAREA XVII\_XVIII Client Survey Results.

1. Background:

The limits of NAVAREAs XVII and XVIII and their associated rectangular broadcast zones are as noted/depicted below.

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



Canada provides an HF-NBDP supplemental SafetyNET Service from Iqaluit on a navigational season basis.

Schedule of INMARSAT EGC and HF-NBDP broadcasts:

Time (UTC)	System	Frequency / Satellite
0330	HF-NBDP	8416.5 kHz*
1100	NAV XVIII	AOR-W / AOR-E

1130	NAV XVII	POR / AOR-W
1530	HF-NBDP	8416.5 kHz*
2300	NAV XVIII	AOR-W / AOR-E
2330	NAV XII	POR / AOR-W

Operational points of contact for the National Coordinators within the two NAVAREAs:

COUNTRY	INSTITUTION	TELEPHONE	FACSIMILE	EMAIL
Canada	Iqaluit MCTS	867-979-5724	867-979-4264	iqanordreg@innav.gc.ca
Canada	MRCC Groennedal	+299-691911	+299-691949	mrcc@glk.gl

## 2. Comments:

Canadian content in the GMDSS Master Plan is accurate 22 July 2019.

Equipment in use in Canada:

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

2016				2017				2018			
E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text
81				79				77			

## NAVAREA XVIII

2016				2017				2018			
E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text	E-mail	Fax	Phone	Text
93				93				101			

NAVAREA XVII is broadcasting over: POR and AOR(W)

NAVAREA XVIII is broadcasting over: AOR(W) and AOR(E)

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

<b>NAVAREA XVII:</b>					
<b>2016</b>		<b>2017</b>		<b>2018</b>	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
20	41 Mins	16	40 Mins	0	0 Mins

<b>NAVAREA XVIII:</b>					
<b>2016</b>		<b>2017</b>		<b>2018</b>	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
38	43 Mins	19	33 Mins	0	0 Mins

This year, Canada re-assessed the broadcast priorities assigned to navigational warnings for NAVAREAs XVII and XVIII. As such, the majority of our Arctic NAVAREA warnings are broadcast during the allocated schedule.

Canada does not currently have an Iridium certificate of authorization from the IMO EGC Coordinating Panel, but expects to request one shortly, provided the issue of MSI monitoring over the Iridium system has been satisfactorily resolved.

There have been no requests for the list of in-force navigations warnings in the past 3 years.

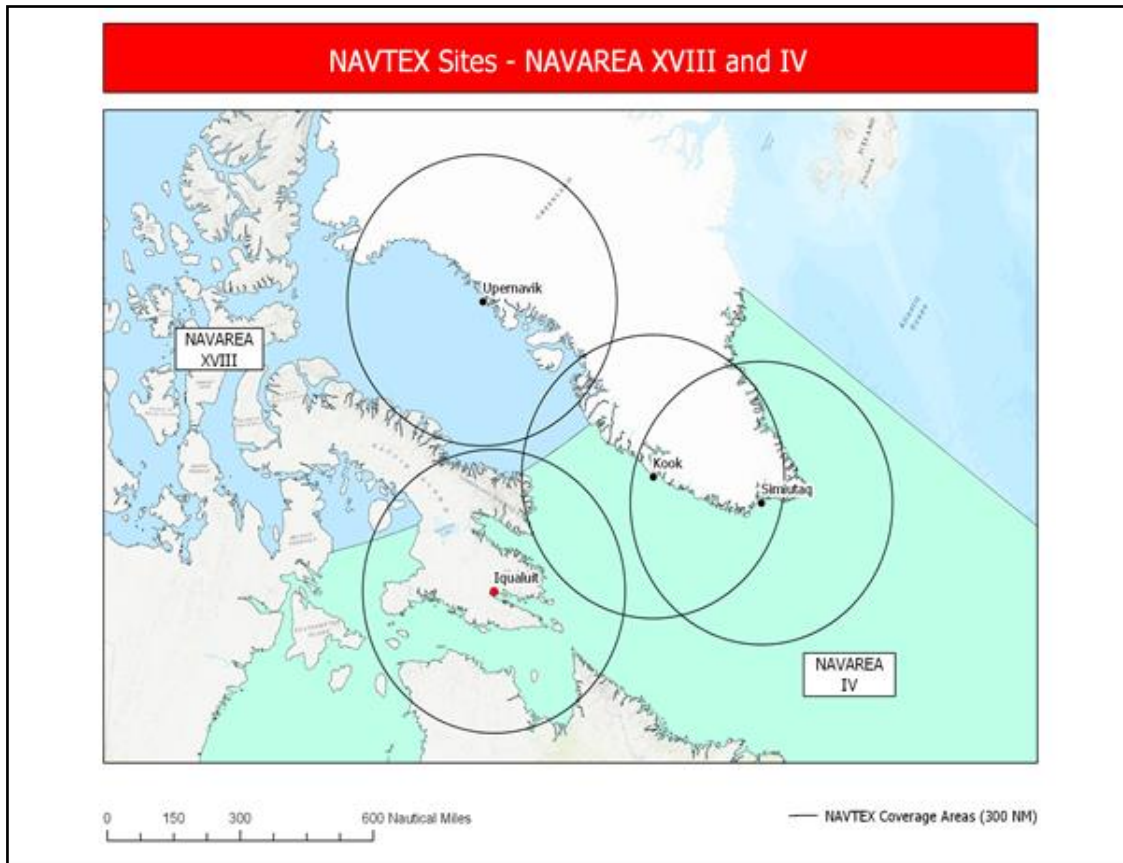
<b>2016</b>		<b>2017</b>		<b>2018</b>	
Total	E-mail	Total	E-mail	Total	E-mail
0		0		0	

### 3. NAVTEX Coverage:

There is very limited NAVTEX coverage into NAVAREA XVIII provided by the Canadian NAVTEX station located in Iqaluit, Nunavut. The NAVTEX service is provided only on a navigational season basis, from mid-May to mid-December.

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

See the image below for Iqaluit's NAVTEX coverage area.



4. Operational Issues:

NAVAREA XVII – 2018 MSI received and typical topics/subjects:

Coastal State/Country	# of MSI messages	Topics/Subjects of messages
Canada – CCG Ops	2	NORDREG
Canada – MCTS Iqaluit	9	Aids to navigation
	47	Radio services
Canada – French CNES	5	Rocket Launch
Canada – CCGS	11	Scientific moorings
Canada – DFO	2	Canada Hydrographic Services
Inmarsat	9	Satellite Migration

NAVAREA XVIII – 2018 MSI received and typical topics/subjects:

Coastal State/Country	# of MSI messages	Topics/Subjects of messages
Canada – DFO	14	Canada Hydrographic Services
Canada – MCTS Iqaluit	60	Radio Services
	3	Construction

	2	Barge adrift
	13	Aids to Navigation
Canada – CCG Ops	2	NORDREG
	8	Science
Canada – GOC	1	Rocket Launch
Canada – NOTMAR	3	Notice to Mariners
Inmarsat	9	Satellite Migration

CCG = Canadian Coast Guard

CCG OPS = CCG Operations (program)

CCG DFO = Department of Fisheries and Oceans Canada, CCG

CCG GOC = Government of Canada [National Operations Centre]

CCGS = CCG ship

No new infrastructure has been established in accordance with GMDSS Master Plan which was updated in GISIS in July 2019.

The following issues with GMDSS infrastructure were reported in 2018:

<b>NAVTEX Transmitter</b>	<b>Off Air</b>	<b>On Air</b>	<b>Duration: HH:MM</b>
Iqaluit	151400 UTC May	071500 UTC Jun	553:00
	191500 UTC Aug	211900 UTC Aug	52:00
	261750 UTC Nov	291500 UTC Nov	69:10
		<b>Total:</b>	674:10

The NAVTEX equipment and transmitter-to-tower feeds were replaced at the commencement of the 2019 navigational season (mid-May 2019).

<b>HF-NBP Transmitter</b>	<b>Off Air</b>	<b>On Air</b>	<b>Duration: HH:MM</b>
Iqaluit	032146 UTC Aug	040130 UTC Aug	3:44
	180330 UTC Aug	181730 UTC Aug	17:00
	021530 UTC Sep	021625 UTC Sep	0:55
	050400 UTC Oct	060400 UTC Oct	48:00
	311230 UTC Oct	011230 UTC Nov	24:00
	251350 UTC Nov	251435 UTC Nov	0:45
		<b>Total:</b>	94:44

Since the opening of the navigational season in May 2019, the HF-NBDP, as well as HF DSC and RT, has continued to operate as ‘unreliable’ given that high winds are causing intermittent antenna problems. The tower outriggers are scheduled to fly into the area in early August 2019 to fix the antenna problem.

In June 2019, the Chair of the IMO NAVTEX Coordinating Panel advised he had received a complaint that Robin Hood Bay NAVTEX was transmitting outside of its allocated broadcast schedule and causing interference with Jeloya, Norway. An investigation revealed that the system was transmitting the 0220 broadcast 20 minutes early. The technicians resolved the issue and the transmitter is now compliant with its broadcast schedule.

The following table depicts the number of broadcasts managed by each system in the last 3 years, noting that HF-NBDP services are only available during the navigational seasonal.

	2016	2017	2018
NAVAREA XVII	137	130	140
NAVAREA XVIII	153	145	156
HF-NBDP XVII*	59	37	28
HF-NBDP XVIII*	133	116	105

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](mailto: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

#### 6. Contingency Planning

NAVAREAs XVII and XVIII did not conduct any contingency exercises since March 2018.

7. Capacity Building:

There has been no offer of/demand for MSI training in Canada. However, with the recent launch of the new national navigational warning system, there has been considerable national dialogue with other federal operational programs on the format, content and life cycle management of navigational warnings. This dialogue is bringing forth opportunities to enhance national consistency/efficiency in the navigational warning service as we bring our domestic services into alignment, wherever possible, with international standards.

8. Other Activities:

- a) Provide assistance to the CCG e-NAV Program 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-6** as a member of the Canadian delegation with a focus on the GMDSS Radiocommunication Systems.
- d) Attended WNWNS – Draft Working Group, 17th session.
- e) Collaborated with the Arctic NAVAREA Coordinators on a draft navigational warning describing the cessation of rectangular EGC broadcasts (WWNWS-10 Action Item).
- f) Actively participate in the WNWNS S-124 Correspondence Group.
- g) Assisted in development the S-124 Training Manual/Annex for NAVAREA Coordinators.

9. NAVAREA Website:

Website: [WWW.CCG-GCC.GC.CA/ENG/CCG/NOTSHIP\\_HOME](http://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:

NAVAREA XVII & XVIII **Operational Desk** (available 24/7)

Prescott MCTS Centre  
Telephone: +1 613 925-0666  
Facsimile: + 1 613 925-4519  
E-mail: navarea17.18@innav.gc.ca

NAVAREA XVII & XVIII **Coordinator** (business hours)

Lucia Bakker  
Operational Support  
Canadian Coast Guard  
Centennial Towers  
200 Kent Street, Ottawa  
Ontario K1A 0E6  
Tel: + 1 613 323-6499  
E-mail: Lucia.Bakker@dfo-mpo.gc.ca

11. Recommendations:

None.

12. Actions requested:

Note this report and the 2017 Joint MET/NAVAREA Client Survey Results PowerPoint.

13. Summary:

The NAVAREA XVII & XVIII Coordinator introduced the Self-Assessment and highlighted key 2018 activities for her area, namely the issues with NAVTEX and HF-NBDP.

She advised that the analysis of the Joint MET/NAVAREA SafetyNET Services 2017 Survey are now available.

She also advised that Canada will submit two IMO .INF Papers at IMO NCSR-7 in January 2020, one to describe the new domestic navigational warning system and updated services, the other to highlight the newly established NAVTEX Service Areas within the Canadian NAVTEX Coverage Areas.