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Safety First, Service Always

# **RADIO AIDS TO MARINE NAVIGATION** **(Atlantic, St. Lawrence, Great Lakes,** **Lake Winnipeg and Eastern Arctic)**

***Radio Aids to Marine Navigation 2013 Annual Publication***

**Canadian Coast Guard**  
**Marine Communications and Traffic Services**

**Important:** *Radio Aids to Marine Navigation 2013* is revised on a monthly basis, when required, through Notices to Mariners, Section 3

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Safety First, Service Always

**TO ALL USERS OF  
*RADIO AIDS TO MARINE NAVIGATION 2013***

**Radio Aids to Marine Navigation website:**

[http://www.ccg-gcc.gc.ca/eng/Canadian Coast Guard/MCTS Radio Aids](http://www.ccg-gcc.gc.ca/eng/Canadian%20Coast%20Guard/MCTS_Radio_Aids)

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*Radio Aids to Marine Navigation 2013* is revised on a monthly basis, when required, through Notices to Mariners (NOTMAR), Section 3.

NOTMAR website: <http://www.notmar.gc.ca/privacy.php>

We welcome your comments and suggestions on the contents and the format of *Radio Aids to Marine Navigation 2013*. Please forward your comments to:

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**Note:** Cette publication est aussi disponible en français

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## **NOT TO BE USED FOR NAVIGATION**

*Latitude and longitude positions given in this publication are in NAD 83 unless otherwise indicated.*

## ***Radio Aids to Marine Navigation 2013* has been revised to December 31, 2012 and supersedes *Radio Aids To Marine Navigation 2012***

Any inquiries as to the contents of this publication or reports of errors or omissions should be directed to the nearest regional office as indicated at the end of Part 1 of this publication.

The information in this volume is grouped in five parts:

**Part 1: Foreword** (includes advance notices, legend, frequency listing and Marine Communications and Traffic Services telephone and address information)

Part 1 provides mariners with advance information on proposed changes to facilities and services. It includes the Canadian Maritime Mobile Safety and Public Correspondence communication frequencies, a legend for centre listings and the telephone/facsimile/telex directory of Marine Communications and Traffic Services centres along with the Regional offices' addresses.

**Part 2: Atlantic Coast, Gulf and St. Lawrence River to Montréal, Eastern Arctic** (including Hudson Bay and Strait), **Great Lakes** (including St. Lawrence River to Montréal) **and Lake Winnipeg**

Part 2 lists, in tabular form, detailed operational information about individual facilities in each of the areas covered. Marine Communications and Traffic Services centres provide continuous year round communications and special services except as noted.

**Part 3: Vessel Traffic Services**

Part 3 provides consolidated information concerning Vessel Traffic Services.

**Part 4: General**

Part 4 describes the various procedures, services and systems available, together with general observations or directions for their use. This part also refers to radiotelephone procedures for the benefit of vessels equipped with radiotelephone but not carrying radio operators. The proper use of radio frequencies and procedures is essential to minimize congestion and delays on the channels available for communication.

**Part 5: Environment Canada**

Part 5 provides all relative information concerning Environment Canada's services in marine meteorology that are delivered by the Canadian Coast Guard.

The main purpose of *Radio Aids to Marine Navigation 2013* is to present, in a convenient form, information on radio communications and radio navigational aids services provided in Canada by the Canadian Coast Guard. Radio facilities of other government agencies that contribute to the safety of ships in Canadian waters are also included.

*Radio Aids to Marine Navigation 2013* is published in two editions: one for the Atlantic Coast, Gulf and St. Lawrence River to Montréal, Eastern Arctic (including Hudson Bay and Strait), the Great Lakes (including St. Lawrence River to Montréal) and Lake Winnipeg; the other for the Pacific Coast, Western Arctic and the Athabasca-Mackenzie Watershed area. Each edition is also available in French.

*Radio Aids to Marine Navigation 2013* is published each April. Amendments are advertised by radio broadcast (Notices to Shipping) and/or in Notices to Mariners, Section 3.

Every ship station fitted on a Canadian ship or on a non-Canadian ship engaged in the coasting trade of Canada, pursuant to the *Ship Station (Radio) Regulations 1999*, and all ships in waters under Canadian jurisdiction, pursuant to the *Charts and Nautical Publications Regulations, 1995*, are required to carry the most recent applicable edition of *Radio Aids to Marine Navigation*.



## Amendment Register

## Radio Aids to Marine Navigation

(Atlantic, St. Lawrence, Great Lakes, Lake Winnipeg and Eastern Arctic)

**2013 Annual Publication**[illegible]

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## PART 1

### FOREWORD

#### ADVANCE NOTICES

In order that mariners may have advance knowledge of proposed changes to existing facilities to be provided, additions, deletions and changes to such facilities under the jurisdiction of the Canadian Coast Guard are listed hereunder. Effective dates of changes and dates for the commissioning of new facilities are, however, extremely hard to forecast owing to difficulties in obtaining materials and subject to the provision of necessary funds. Every effort will be made to amend dates as far in advance as possible. In every case of changes to facilities and commissioning new facilities, an appropriate Notice to Mariners will be issued.

**1.      ➡ *The Radio Aids To Marine Navigation Annual Publications***

Effective April 1, 2013, the Canadian Coast Guard will cease the printing of its "Radio Aids to Marine Navigation" annual publications which include the "Atlantic, St. Lawrence, Great Lakes, Lake Winnipeg and Eastern Arctic" edition as well as the "Pacific and Western Arctic" edition. The publications will continue to be available online, free of charge, at: [http://www.ccg-gcc.gc.ca/eng/CCG/Information for Mariners](http://www.ccg-gcc.gc.ca/eng/CCG/Information_for_Mariners).

The "Radio Aids to Marine Navigation" annual publications are updated each April. Amendments will continue to be advertised by radio broadcast (Notices to Shipping) and/or issued on a monthly basis, when required, in "Notices to Mariners", Section 3. The "Notices to Mariners" publication is available online, free of charge, at: <http://www.notmar.gc.ca>.

Every ship station fitted on a Canadian ship or on a non-Canadian ship engaged in the coasting trade of Canada, pursuant to the *Ship Station (Radio) Regulations 1999*, and all ships in waters under Canadian jurisdiction, pursuant to the *Charts and Nautical Publications Regulations, 1995*, are required to carry the most recent applicable edition of "Radio Aids to Marine Navigation".

**2.      ➡ *Consolidation of the Inuvik and Iqaluit Marine Communications and Traffic Services Centres***

As of the end of the 2012 Arctic navigation season, the Canadian Coast Guard has permanently closed the Inuvik Marine Communications and Traffic Services Centre. Commencing with the 2013 Arctic navigation season, all services are provided remotely by Iqaluit Marine Communications and Traffic Services Centre.

**3.      ➡ *Responsibility for the Operation of the Transmit and Receive Facilities Located at Churchill, Manitoba***

Effective July 1, 2012, the responsibility for the operation of the transmit and receive facilities located at Churchill, Manitoba has been transferred from Thunder Bay Marine Communication and Traffic Services Centre to Iqaluit Marine Communications and Traffic Services Centre.

#### **4.      ➡ *Ship Radio Inspections***

Owners and masters of Canadian vessels are advised that Transport Canada has delegated the authority to issue radio inspection certificates to Recognized Organizations under the Delegation Statutory Inspection Program. Vessels enrolled in the Delegation Statutory Inspection Program, as well as classed ships, are encouraged to contact a Recognized Organization for their radio inspection required by regulations under the *Canada Shipping Act, 2001*. Currently, the Recognized Organizations are: the American Bureau of Shipping; Bureau Veritas; Det Norske Veritas; Germanischer Lloyd; and, Lloyd's Register. This is in addition to the Canadian Coast Guard, who continue to also have delegated authority for this function.

#### **5.      ➡ *VHF-DSC Test Calls***

Effective January 2011, the Canadian Coast Guard VHF Digital Selective Calling (DSC) network controlled by Marine Communications and Traffic Services centres was upgraded to include a "Test Call" feature, providing mariners whose marine radio meets standards identified in ITU M 493-11 (or higher) *DSC Systems for use in Maritime Mobile Service*, with a means to verify the functionality of these radios.

The VHF-DSC equipment at Marine Communications and Traffic Services centres has been configured to automatically acknowledge VHF-DSC test calls within seconds of receipt provided that the Marine Communications and Traffic Services centre is not processing higher priority DSC calls.

Consult *Part 2 – Facilities Information* for the Maritime Mobility Service Identity (MMSI) numbers required to make a digital test call to an Marine Communications and Traffic Services centre.

#### **6.      *The Canadian Forces Fleet MetOc Broadcast Service***

The Canadian Forces Fleet MetOc Broadcast service (radioteletype and radiofacsimile) was placed in abeyance effective September 2, 2010. The Canadian Forces Fleet MetOc Broadcast may be reinstated and ceased without warning as necessitated by military operational requirements. When notified, Marine Communications and Traffic Services will issue a Notice to Shipping concerning reinstatement or cessation of this service.

#### **7.      *The Commercial Public Correspondence Service***

The cessation of the Canadian Coast Guard commercial public correspondence service has commenced as of December 31, 1999, in selected areas, based upon the demand for the service and the availability of alternate service delivery methods.

The Canadian Coast Guard discontinued the provision of the commercial radiotelegram service as of December 31, 2007. Provision of the commercial marine telephone service is no longer offered from Marine Communications and Traffic Services centres in Montréal, Québec and the Central and Arctic Region (Inuvik, Iqaluit, Thunder Bay, Sarnia and Prescott).

## **8. Northern Canada Vessel Traffic Services (NORDREG) Zone**

As of July 1, 2010, the Northern Canada Vessel Traffic Services (NORDREG) Zone reporting system is mandatory for certain vessels. The NORDREG Zone, which covers Canada's northern waters, has also been extended to the outer limit of the exclusive economic zone of Canada. The following vessels are required to report information to NORDREG:

- Vessels of 300 ➡ tons gross tonnage or more;
- Vessels that are engaged in towing or pushing a vessel, if the combined gross tonnage of the vessel and the vessel being towed or pushed is 500 ➡ tons gross tonnage or more; and
- Vessels carrying as cargo a pollutant or dangerous goods, or engaged in towing or pushing a vessel carrying as cargo a pollutant or dangerous goods.

The above vessels destined for the NORDREG Zone or navigating within the zone should contact NORDREG CANADA or the nearest Canadian Coast Guard Marine Communications and Traffic Services centre for full information on how to comply with the new requirements.

## **9. Automatic Identification System (AIS) - Installation of AIS Equipment in Eastern Canada**

In 2012, the Canadian Coast Guard will commence Full Operational Condition (FOC) AIS service.

The Canadian Coast Guard AIS will cover most of Eastern Canada from the Strait of Belle Isle to the Bay of Fundy, most of the Gulf of St. Lawrence, the St. Lawrence River and the Canadian Great Lakes. AIS service is now available at the following Marine Communications and Traffic Services centres:

NL: Port-aux-Basques, Placentia; St. Anthony; St. John's.  
NS: Halifax; Sydney.  
NB: Saint John.  
QC: Les Escoumins; Montréal; Québec; Rivière-au-Renard.  
ON: Sarnia.

Marine Communications and Traffic Services centres are able to receive dynamic information (position, heading and speed), static information (vessel description) and voyage information as transmitted by the vessel's AIS equipment. The date of commissioning of AIS service for each Marine Communications and Traffic Services centre will be advertised through Notices to Shipping.

Although Marine Communications and Traffic Services centres will be able to receive AIS ship safety messages, this service should only be used when other methods to communicate with a Marine Communications and Traffic Services centre fail.

AIS binary message services are currently unavailable.

AIS equipment is to be operated in accordance with the Annex to Resolution A.917 (22), IMO guidelines for the onboard operational use of shipborne AIS and in conformity with the *Navigation Safety Regulations* (SOR/2005-134).



**10.     *Avoid Collision with Right Whales***

North Atlantic Right Whales are the most endangered large whale in the world; about 350 remain. They are slow swimmers, seldom moving faster than 3-5 knots. They may stay submerged for 10 to 20 minutes and are seen alone or in small groups. If you spot one Right Whale, there may be more in the area. Please report all sightings of Right Whales in Canada to the Canadian Coast Guard via VHF Ch 16 and in the Bay of Fundy contact Fundy Traffic VHF Ch 14. They are difficult to see and might be oblivious to vessels – please avoid approaching them closely. For more details, visit: [http://www.sararegistry.gc.ca/default\\_e.cfm](http://www.sararegistry.gc.ca/default_e.cfm).

**Note:** Roseway Basin Seasonal Area is to be avoided. In order to significantly reduce the risk of ship strikes of the highly endangered North Atlantic Right Whale, it is recommended that ships of 300 tons gross tonnage and upwards solely in transit during the period of June 1st through December 31st should avoid this area.

**CANADIAN MARITIME MOBILE SAFETY AND  
PUBLIC CORRESPONDENCE COMMUNICATION FREQUENCIES**

The frequencies listed on the following pages are those in general use by ships in Canadian waters for inter-ship communications and for ship/shore communications with Marine Communications and Traffic Services centres operated by the Canadian Coast Guard.

Part 2 of this publication contains individual listings for Marine Communications and Traffic Services centres operated by the Canadian Coast Guard, giving details of the communication and special services provided to ships.

On the following pages are frequency lists, including the geographical areas of use:

1.     Newfoundland and Labrador;
2.     Atlantic Coast, Gulf and St. Lawrence River up to and including Montréal;
3.     Great Lakes (including St. Lawrence above Montréal);
4.     Eastern Arctic; and
5.     Western Arctic.

Frequencies		Channel	Class of Emission	Areas Used	Remarks
Ship kHz	Coast kHz				
	490		F1B	1, 2, 3, 4	NAVTEX Service (French)
	518		F1B	1, 2, 3, 4	International NAVTEX Service (English)
2003			J3E	2	Inter-ship (Lower St. Lawrence River to West Point, Anticosti Island)
2118	2514		J3E	1, 2, 4, 5	Public correspondence; MSI broadcasts
2134			J3E	1, 2	Inter-ship (fishing vessels only)
2142	2538		J3E	1	Public correspondence
2158	2550		J3E		Public correspondence (U.S. vessels only)
2182	2182		J3E	1, 2, 4	International distress and safety communications
2187.5	2187.5		G2B		International distress and safety calls (DSC)
2206	2582		J3E	1, 2, 4	Public correspondence; MSI broadcasts
2237			J3E	1, 2	Inter-ship (other than fishing vessels)
	2598		J3E	1, 2	MSI broadcasts
2638			J3E	1, 2	Inter-ship (shared with U.S. vessels)
2738			J3E	1, 2	Inter-ship (shared with U.S. vessels)
2815	2530		J3E	2	Public correspondence
	2749		J3E	2	MSI broadcasts
	3253		J3C	4	Radiofacsimile
3023	3023		J3E	1, 2, 3, 4, 5	International SAR coordination communications, including SAR aircraft
4071	4363	403	J3E	4	Public correspondence; MSI broadcasts
4083	4375	407	J3E	1, 2, 4	Public correspondence
4084.7	4379.1	408	J3E	1, 2	Public correspondence
4100.2	4394.6	413	J3E	1, 2	Public correspondence
4116	4408	418	J3E	1, 2	Public correspondence
4125	4125		J3E	1, 2, 3, 4, 5	International distress and safety communications including SAR aircraft
4177.5	4177.5		F1B	4, 5	International distress and safety communications (NBDP)
4207.5	4207.5		F1B	4, 5	International distress and safety calls (DSC)
	4416		J3C	2	Radiofacsimile
5680	5680		J3E	1, 2, 3, 4, 5	International SAR coordination communications, including SAR aircraft
6206	6507	603	J3E	1, 2, 4	Public correspondence; MSI broadcasts
6212	6513	605	J3E	1, 2, 4	Public correspondence
6215	6215		J3E	4	International distress and safety communications
6268	6268		F1B	4, 5	International distress and safety communications (NBDP)
6312	6312		F1B	4, 5	International distress and safety calls (DSC)
	7710		J3C	4	Radiofacsimile
8228	8752	812	J3E	1, 2, 4	Public correspondence
8261	8785	823	J3E	1, 2	Public correspondence
8267	8791	825	J3E	1, 2, 4	Public correspondence
8291	8291		J3E	4	International distress and calling
8376.5	8376.5		F1B	4, 5	International distress and safety communications (NBDP)
8414.5	8414.5		F1B	4, 5	International distress and safety calls (DSC)
	8416.5		F1B	4, 5	NAVAREAs XVII and XVIII MSI broadcasts (NBDP)
12230	13077	1201	J3E	1, 2, 4	Public correspondence
12290	12290		J3E	4	International distress and safety communications
12520	12520		F1B	4, 5	International distress and safety communications (NBDP)
12577	12577		F1B	4, 5	International distress and safety calls (DSC)
16369	17251	1604	J3E	1, 2	Public correspondence
16420	16420		J3E	4	International distress and safety communications
16562.3	17335.2	1634	J3E	1, 2	Public correspondence
16695	16695		F1B	4, 5	International distress and safety communications (NBDP)
16804.5	16804.5		F1B	4, 5	International distress and safety calls (DSC)
22037.2	22633.2	2213	J3E	2	Public correspondence

Frequencies		Channel	Class of Emission	Areas Used	Remarks
Ship MHz	Coast MHz				
156.300	156.300	06	F3E	1, 2, 3, 4	Inter-ship and International SAR coordination communications, including SAR aircraft
156.400	156.400	08	F3E	1, 2, 3, 4	Inter-ship and Safety communications
156.450	156.450	09	F3E	2	Vessel Traffic Services & Inter-ship
156.500	156.500	10	F3E	2	Vessel Traffic Services & Inter-ship
156.525	156.525	70	G2B	1, 2, 3, 4	International distress and safety calls (DSC)
156.550	156.550	11	F3E	2, 3	Vessel Traffic Services & Pilotage
156.575	156.575	71	F3E	2	Vessel Traffic Services
156.600	156.600	12	F3E	2, 3	VTS / Port Operations/Pilotage
156.650	156.650	13	F3E	2, 3	VTS / Bridge to Bridge navigational traffic
156.700	156.700	14	F3E	2, 3	VTS/Port Operations/Pilotage
156.800	156.800	16	F3E	1, 2, 3, 4	International distress and safety communications
	161.650	21B	F3E	1, 2, 3	Weather and NOTSHIP broadcasts
156.925	156.925	78A	F3E	1, 2, 3, 4	Inter-ship for Fishing vessels
156.950	161.550	19	F3E	1, 2, 3	Ship and Canadian Coast Guard liaison, MSI broadcasts
157.100	157.100	22A	F3E	1, 2, 3	Ship and Canadian Coast Guard liaison
	161.750	23B	F3E	1, 3	Weather and NOTSHIP broadcasts
157.200	161.800	24	F3E	2, 3	Public correspondence
157.225	161.825	84	F3E	2, 3	Public correspondence
157.275	161.875	85	F3E	2, 3	Public correspondence
157.300	161.900	26	F3E	1, 2, 3, 4	Public correspondence, MSI broadcasts
157.350	161.950	27	F3E	2, 3	Public correspondence
157.375	157.375	87	F3E	1, 2, 3	Port operations/Ship movement
157.425	157.425	88	F3E	1, 2, 3	Port operations/Ship movement
	161.775	83B	F3E	3	Weather and NOTSHIP broadcasts
	161.850	25B	F3E	3	Weather and NOTSHIP broadcasts
161.975	161.975	87B	G2B	1, 2, 3	AIS-1
	162.000	28B	F3E	3	Weather and NOTSHIP broadcasts
162.025	162.025	88B	G2B	1, 2, 3	AIS-2

**Notes Reference VHF:**

- (a) “A” following a channel number means Simplex Operation on the ship station transmitting frequency.
- (b) “B” following a channel number means ship stations receive only on the higher coast station transmission frequency

**GENERAL INFORMATION ON MARINE COMMUNICATIONS AND TRAFFIC SERVICES CENTRE LISTINGS**

- (1) Transmit and receive frequencies are listed in kHz.
- (2) Receiving frequencies printed in **bold type** are continuously monitored by Marine Communications and Traffic Services centres.
- (3) The numbered areas mentioned in the remarks column of centres providing communications and special services are shown on the marine weather forecasts maps, and are listed in detail under the heading “Weather Forecast Areas” in Part 5.
- (4) Frequencies for which the J3E single sideband modes of emission are shown in the Marine Communications and Traffic Services centre listings are designated by the carrier frequencies. The assigned frequencies are 1.4 kHz higher than the carrier frequencies listed. (This note also applies to the medium and high radiotelephone frequencies listed in the “Canadian Maritime Mobile Safety and Public Correspondence Communication Frequencies”, Part 1, page 4.)

**➡Legend for Marine Communications and Traffic Services Centre Listings**

AIS	Automatic Identification System
CMB	Continuous Marine Broadcast
DF	Direction Finding
DSC	Digital Selective Calling
F1B	Radioteletype
F3E	Radiotelephony, Frequency Modulation
G2B	Phase modulation, digital information, automatic reception
H+	This symbol followed by a number indicates minutes past the hour
HF NBDP	High Frequency Narrow-Band Direct-Printing Telegraphy
J3C	Facsimile – Single-sideband, Suppressed Carrier
J3E	Radiotelephony – Single-sideband, Suppressed Carrier
MCTS	Marine Communications and Traffic Services
MMSI	Maritime Mobile Service Identity
NAVTEX	Narrow Band Direct Printing telegraphy
SC	Ship Control (Canal and Locks operations)
UTC	Coordinated Universal Time
★	Facilities are available for connecting ships directly to the commercial telephone system on shore
#	Broadcasts are made simultaneously on these frequencies
●	VHF Direction Finding service is available
➡	Indicates change or addition since RAMN 2012 Annual Publication

**TELEPHONE / FACSIMILE / TELEX DIRECTORY**

SERVICE	TELEPHONE NUMBER	FACSIMILE NUMBER	TELEX NUMBER	ANSWER BACK CODE	MMSI
<b>Marine Communications and Traffic Services centre (call sign)</b>					
HALIFAX, NS (VCS)	902-426-9750	902-426-4483	➡2101922510		003160016
IQALUIT, NU (VFF) <b>Service available in English and in French</b>	867-979-5269	867-979-4264	063-15529		003160023
LABRADOR, (Goose Bay) NL (VOK)	709-896-2252	709-896-8455			003160022
LES ESCOUMINS, QC (VCF) <b>Service available in English and in French</b>	418-233-2194	418-233-3299			003160026
MONTRÉAL, QC (VFN) <b>Service available in English and in French</b>	450-928-4544	450-928-4547			003160028
PLACENTIA, NL (VCP)	709-227-2181 709-227-2182	709-227-5637			003160019
PORT AUX BASQUES, NL (VOJ) <b>Service available in English and in French</b>	709-695-2167	709-695-7784			003160018
PRESCOTT, ON (VBR) <b>Service available in English and in French</b>	613-925-4471	613-925-4519			003160029
QUÉBEC, QC (VCC) <b>Service available in English and in French</b>	418-648-4427	418-648-7244			003160027
RIVIÈRE-AU-RENARD, QC (VCG) <b>Service available in English and in French</b>	418-269-5686	418-269-5514			003160025
SAINT JOHN, (Fundy) NB (VAR) <b>Service available in English and in French</b>	506-636-4696 1-888-528-6444	506-636-5000			003160015
SARNIA, ON (VBE)	519-336-4003	519-336-0229			003160030
ST. ANTHONY, NL (VCM)	709-454-3852	709-454-3716			003160021
ST. JOHN'S, NL (VON)	709-772-2106 709-772-2083 1-800-563-9089	709-772-5369			003160020
SYDNEY, NS (VCO) <b>Service available in English and in French</b>	902-564-7751 1-800-686-8676	902-564-7662			003160017
THUNDER BAY, ON (VBA)	807-345-5190	807-345-2688			003160031

<b>ECAREG CANADA</b>					
DARTMOUTH, NS	902-426-4956	902-426-4483			
RIVIÈRE-AU-RENARD, QC Service available in English and in French	418-269-3843	418-269-5514			
ST. JOHN'S, NL	709-772-2083	709-772-5369			
	709-772-2084				
<b>NORDREG CANADA</b>					
IQALUIT, NU ➡Operational from approximately mid-May until late December	867-979-5724	867-979-4264	063-15529	NORDREG CDA	
PRESCOTT, ON ➡Operational from approximately late December until mid-May	613-925-4471	613-925-4519			
<b>➡NAVAREA XVII &amp; XVIII</b>					
PRESCOTT, ON	613-925-0666	613-925-4519			

<b>➡Joint Rescue Coordination Centre (JRCC) / Maritime Rescue Sub-Centre (MRSC)</b>		
JRCC Halifax, NS	<b>Telephone:</b> 1-800-565-1582 1-800-563-2444 +1-902-427-8200  <b>Facsimile:</b> +1-902-427-2114  <b>Email:</b> <a href="mailto:jrcchalifax@sarnet.dnd.ca">jrcchalifax@sarnet.dnd.ca</a>	Maritimes Region Newfoundland & Labrador Region Satellite, Local or out of area
MRSC Québec, QC Service available in English and in French	<b>Telephone:</b> 1-800-463-4393 +1-418-648-3599  <b>Facsimile:</b> +1-418-648-3614  <b>Email:</b> <a href="mailto:mrscqbc@dfo-mpo.gc.ca">mrscqbc@dfo-mpo.gc.ca</a>	Québec Region Satellite, Local or out of area
JRCC Trenton, ON	<b>Telephone:</b> 1-800-267-7270 +1-613-965-3870  <b>Facsimile:</b> +1-613-965-7279  <b>Email:</b> <a href="mailto:jrcctrenton@sarnet.dnd.ca">jrcctrenton@sarnet.dnd.ca</a>	In Canada Satellite, Local or out of area

<b>➡Icebreaking Services</b>		
Service	Telephone Number	Facsimile Number
ICE ATLANTIC	+1-709-772-2078	+1-709-772-5369
ICE QUÉBEC		
For Icebreaker Support	+1-418-648-7290	+1-418-648-3614
For Ice Information	+1-418-648-2214	+1-418-648-7305
ICE SARNIA:		
For Icebreaker Support	1-800 265-0237 or +1-519-383-1814	
For Ice Information	+1-519-383-1855	+1-519-337-2498

➡ **REGIONAL OFFICE ADDRESSES (covering the East Coast, Eastern Arctic and Central Canada)**

<p>Regional Superintendent Marine Communications and Traffic Services Fisheries and Oceans Canada Canadian Coast Guard P.O. Box 5667 <b>ST. JOHN'S, NL A1C 5X1</b></p> <p>Telephone: 709-772-5119 Facsimile: 709-772-5666</p>	<p>Regional Superintendent Marine Communications and Traffic Services Fisheries and Oceans Canada Canadian Coast Guard 101 Champlain Boulevard <b>QUÉBEC, QC G1K 7Y7</b></p> <p>Telephone: 418-648-5522 Facsimile: 418-648-4877</p> <p><b>Service available in English and in French</b></p>
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**REGIONAL NOTICES TO SHIPPING (NOTSHIP) ISSUING AUTHORITIES**

<p>➡ Fisheries and Oceans Canada Canadian Coast Guard Port aux Basques MCTS Centre 49 Stadium Road P.O. Box 99 <b>PORT AUX BASQUES, NL A0M 1C0</b></p> <p>Telephone: 709-695-2168 Facsimile: 709-695-3833 Email: <a href="mailto:notshipfax@dfo-mpo.gc.ca">notshipfax@dfo-mpo.gc.ca</a></p> <p><b>Service available in English and in French</b></p>	<p>Fisheries and Oceans Canada Canadian Coast Guard Sydney MCTS Centre 1190 Westmount Road <b>SYDNEY, NS B1R 2J6</b></p> <p>Telephone: 902-564-7751 or 1-800-686-8676 Facsimile: 902-564-2446 Email: <a href="mailto:notshipssyd@mar.dfo-mpo.gc.ca">notshipssyd@mar.dfo-mpo.gc.ca</a></p> <p><b>Service available in English and in French</b></p>
<p>Fisheries and Oceans Canada Canadian Coast Guard Les Escoumins MCTS Centre 35 rue Otis <b>Les Escoumins, QC G0T 1K0</b></p> <p>Telephone: 418-233-2308 Facsimile: 418-233-3299 Email: <a href="mailto:opsavis@dfo-mpo.gc.ca">opsavis@dfo-mpo.gc.ca</a> Website: <a href="http://www.marinfo.gc.ca/en/avissecrits/index.asp">http://www.marinfo.gc.ca/en/avissecrits/index.asp</a></p> <p><b>Service available in English and in French</b></p>	<p>Fisheries and Oceans Canada Canadian Coast Guard Prescott MCTS Centre 401 King Street West <b>PRESCOTT, ON K0E 1T0</b></p> <p>Telephone: 613-925-0666 Facsimile: 613-925-4519 Email: <a href="mailto:notshipC&amp;A@dfo-mpo.gc.ca">notshipC&amp;A@dfo-mpo.gc.ca</a> ➡ Website: <a href="http://www.ccg-gcc.gc.ca/eng/CCG/Notship_Home">http://www.ccg-gcc.gc.ca/eng/CCG/Notship_Home</a></p> <p><b>Service available in English and in French</b></p>
<p>Fisheries and Oceans Canada Canadian Coast Guard Iqaluit MCTS Centre P.O. Box 189 <b>IQALUIT, NU X0A 0H0</b></p> <p>Telephone: 867-979-5269 Facsimile: 867-979-4264</p> <p>➡ <b>Operational from approximately mid-May until late December</b></p> <p><b>Service available in English and in French</b></p>	

## PART 2

### HALIFAX, NOVA SCOTIA Marine Communications and Traffic Services Centre

**MMSI: 003160016****Call Sign: VCS****Hours: H24****For Radio Service call Halifax Coast Guard Radio.****For Vessel Traffic Services call Halifax Traffic – refer to section 3.****Services in English only.**

**Mailing Address:** Fisheries and Oceans Canada  
Canadian Coast Guard  
Officer-in-Charge – MCTS Operations  
Halifax MCTS Centre  
10 Hudson Way  
DARTMOUTH, NS B2Y 3Z8

**Telephone Numbers:** **902-426-9750** **MCTS Operations**

902-426-9738 Officer-in-Charge  
902-426-4956 ECAREG

**Facsimile:** 902-426-4483

**Telex Number:** 2101922510

**Email:** [hlxecareg1@innav.gc.ca](mailto:hlxecareg1@innav.gc.ca) ECAREG Canada  
[SUPVRMCTS@MAR.DFO-MPO.GC.CA](mailto:SUPVRMCTS@MAR.DFO-MPO.GC.CA)

#### ● **Halifax MCTS Centre VHF/DF Advisory Service**

A VHF/DF Advisory Service is available to vessels within range of the receiver sites located at Kingsburg, Sambro, Ecum Secum and Fox Island. Information concerning position, bearing and distance may be provided for use at the discretion of the user.

#### **MCTS Halifax / VCS – Ship/Shore Communications**

COMMUNICATION SITES LOCATED AT:	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
Sambro ● 44°28'21"N 63°37'13"W	Ch16 ➡Ch26 * Ch27 * Ch70			
		2182J3E 2514J3E 2582J3E		
Ecum Secum ● 44°57'53"N 62°08'56"W	Ch16 Ch24 * ➡Ch26 * Ch70			



Kingsburg ● 44°16'32"N 64°17'15"W	<b>Ch16</b> <b>Ch24 *</b> <b>➡Ch26 *</b> <b>Ch70</b>			
			<b>2182</b> 2118 * 2206 *	
Fox Island ● 45°19'47"N 61°04'46"W	<b>Ch16</b> <b>Ch24 *</b> <b>➡Ch26 *</b> <b>Ch70</b>			
			<b>2182</b> 2118 * 2206 *	
			<b>2182</b> 2118 * 2206 *	
Shannon Hill 44°41'03"N 63°36'35"W	<b>Ch12</b> <b>Ch14</b> <b>Ch16</b> <b>Ch70</b>			
Chebucto Head 44°30'26"N 63°31'24"W	<b>Ch12</b> <b>Ch14</b> <b>Ch16</b>			

**MCTS Halifax / VCS – Broadcasts**

TIME UTC	FREQUENCY	CONTENTS
0240	2749J3E Ch21B Sambro Fox Island Ch83B Ecum Secum	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis, forecasts and wave height forecasts for marine areas 203 to 214.</li> <li>• Notices to Shipping in South Coast Nova Scotia area.</li> <li>• Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.</li> </ul>
0810	2749J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis, forecasts and wave height forecasts for marine areas 203 to 214.</li> <li>• Notices to Fish Harvesters (when available).</li> </ul>
1110	Ch21B Sambro Fox Island Ch83B Ecum Secum	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Notices to Shipping in South Coast Nova Scotia area.</li> <li>• Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.</li> </ul>
1540	2749J3E Ch21B Sambro Fox Island Ch83B Ecum Secum	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis, forecasts and wave height forecasts for marine areas 203 to 214.</li> <li>• Notices to Shipping in South Coast Nova Scotia area.</li> <li>• Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.</li> </ul>
1940	2749J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis, forecast and wave height forecasts for marine areas 203 to 214.</li> <li>• Notices to Fish Harvesters (when available).</li> </ul>
Continuous	Ch21B Sambro Fox Island Ch83B Ecum Secum	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis, forecast and wave height forecasts for marine areas 203 to 214.</li> <li>• Notices to Fish Harvesters (when available).</li> </ul>

**Note:** The Continuous Marine Broadcast is interrupted three times daily (0240, 1110 and 1540) for Notice to Shipping Broadcasts

**IQALUIT, NUNAVUT**  
**Marine Communications and Traffic Services Centre**

**MMSI: 003160023****Call Sign: VFF****Hours: H24****➡Open from approximately mid-May until late-December.****Opening and closing will be announced by Notice to Shipping.****For Radio Services call Iqaluit Coast Guard Radio.****Services in English and in French.**

**Mailing Address:** Fisheries and Oceans Canada  
Canadian Coast Guard  
Officer-in-Charge  
Iqaluit MCTS Centre / NORDREG Canada  
P.O. Box 189  
IQALUIT, NU X0A 0H0

<b>Telephone Numbers:</b>	<b>867-979-5269</b>	<b>MCTS Operations</b>
	<b>867-979-5724</b>	<b>NORDREG Operations</b>
	867-979-5260	Officer-in-Charge
<b>Facsimile:</b>	867-979-4264	MCTS/NORDREG Operations
<b>Telex Number (Telefax):</b>	063-15529	NORDREG CDA
<b>Email:</b>	<u><a href="mailto:IQANORDREG@INNAV.GC.CA">IQANORDREG@INNAV.GC.CA</a></u>	

**Public correspondence services are no longer available.**

**MCTS Iqaluit / VFF – Ship/Shore Communications**

COMMUNICATION SITES LOCATED AT:	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
Iqaluit 63°43'52"N 68°32'32"W	<b>Ch16</b> <b>Ch26 *</b>			➡ Iqaluit site operational approximately mid-May to late- December
	<b>403</b> 603 812 1201	2182J3E 2582J3E 4363J3E 6507J3E 8752J3E 13077J3E	<b>2182</b> 2206 <b>4071</b> 6206 8228 12230	
		4207.5F1B 6312.0F1B 8414.5F1B 12577.0F1B 16804.5F1B	<b>4207.5</b> <b>6312.0</b> <b>8414.5</b> <b>12577.0</b> <b>16804.5</b>	
		4177.5F1B 6268F1B 8376.5F1B 12520F1B 16695F1B	4177.5 6268 8376.5 12520 16695	
		4125J3E 6215J3E 8291J3E 12290J3E 16420J3E	4125 6215 8291 12290 16420	
➡ Churchill 58°46' 29"N 94°11'22"W	<b>Ch16</b> <b>Ch26</b>			Operational only during navigation season. July 1 to October 31, approximately
Killinek 60°25'27"N 64°50'30"W	<b>403</b>	2182J3E 2514J3E 2582J3E 4363J3E	<b>2182</b> 2118 2206 <b>4071</b>	Killinek site operational approximately early-July to late- October
Coral Harbour 64°09'01"N 83°22'22"W	<b>403</b> 603 812 1201	2182J3E 2514J3E 2582J3E 4363J3E 6507J3E 8752J3E 13077J3E	<b>2182</b> 2118 2206 <b>4071</b> 6206 8228 12230	Coral Harbour site operational approximately mid-July to late- October

Resolute 74°44'47"N 95°00'11"W	<b>Ch16</b> <b>Ch26</b>			Resolute site operational approximately mid-July to late- October
	<b>403</b> 812	2182J3E 2582J3E 4363J3E 8752J3E	<b>2182</b> 2206 <b>4071</b> 8228	
			<b>4207.5</b> <b>6312.0</b> <b>8414.5</b> <b>12577.0</b> <b>16804.5</b>	
			4177.5 6268 8376.5 12520 16695	
			4125 6215 8291 12290 16420	

**MCTS Iqaluit / VFF Broadcasts**

TIME UTC	FREQUENCY	CONTENTS
0100	3253J3C (Resolute) 7710J3C (Iqaluit)	<b>RADIOFACSIMILE: Weather Charts</b> <ul style="list-style-type: none"> <li>Marine Surface Analysis (Arctic).</li> <li>Marine Wind Prognosis (Arctic)(experimental product).</li> <li>Regional Marine Wind Prognosis (on request).</li> </ul>
0110	2514J3E (Coral Harbour) 6507J3E (Coral Harbour)	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Technical marine synopsis and forecasts for marine areas: <b>150, 155, 156, 157, 158, 159, 162, 163, 310, 311 and 312.</b></li> <li>Following areas on request: <b>151, 152, 153, 154, 160, 161 and 164.</b></li> <li>Notices to Shipping for all NORDREG waters east of 106W and along the Labrador coast southward to 58N.</li> </ul>
0200	3253J3C (Resolute) 7710J3C (Iqaluit)	<b>RADIOFACSIMILE: Ice Charts</b> Transmitted from Resolute: Ice analysis Baffin Bay, Approaches to Resolute, Resolute-Byam, Eureka Sound, McClure Strait, Parry Channel and Queen Maud.  Transmitted from Iqaluit: Ice analysis Hudson Bay south, Hudson Bay north, Hudson Strait, Foxe Basin, Labrador Coast, Davis Strait, Baffin Bay.
➡0205	2514J3E (Coral Harbour / Killinek)  2582J3E (Iqaluit/Resolute) 4363J3E (Iqaluit/Resolute) Ch 26 (Iqaluit/Resolute)  6507J3E (Coral Harbour/Iqaluit)	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Ice boundary information.</li> <li>Ice forecasts for marine areas 125, 135, 136, 137, 138, 139, 140, 141, 142, 144, 145, 146, 147, 148, 149, 150, 155, 156, 157, 158, 159, 162, 163, 228, 229, 230, 310, 311 and 312.</li> </ul> <p><b>Other bulletins on request.</b></p>

0300	490F1B	<b>NAVTEX: (S) French</b> <ul style="list-style-type: none"> <li>Weather forecasts for marine areas: 143, 144, 145, 147, 148, 149 and 150.</li> </ul>
0310	518F1B	<b>NAVTEX: (T) English</b> <ul style="list-style-type: none"> <li>Weather forecasts for marine areas: 143, 144, 145, 147, 148, 149 and 150.</li> </ul>
0330	8416.5F1B (Iqaluit)	<b>➡HF NBDP</b> <ul style="list-style-type: none"> <li>METAREA bulletins for areas 100 to 108, 111 to 142, 153, 154, 170 to 173, and 175 to 177.</li> <li>NAVAREA warnings for NAVAREAs XVII and XVIII.</li> </ul>
0600	3253J3C (Iqaluit) 7710J3C (Resolute)	<b>RADIOFACSIMILE: Weather Charts</b> <ul style="list-style-type: none"> <li>Marine Surface Analysis (Arctic).</li> <li>Marine wind prognosis (Arctic) (experimental product).</li> <li>Regional Marine Wind Prognosis (on request).</li> </ul>
0700	3253J3C (Iqaluit) 7710J3C (Resolute)	<b>RADIOFACSIMILE: Ice Charts</b> Transmitted from Resolute: Ice analysis Baffin Bay, Approaches to Resolute, Resolute-Byam, Eureka Sound, McClure Strait, Parry Channel and Queen Maud.  Transmitted from Iqaluit: Ice analysis Hudson Bay south, Hudson Bay north, Hudson Strait, Foxe Basin, Labrador Coast, Davis Strait, Baffin Bay.
0700	490F1B	<b>➡NAVTEX: (S) French</b> <ul style="list-style-type: none"> <li>Safety Notice to Shipping for NORDREG waters bound by marine areas: 143, 144, 145, 147, 148, 149 and 150.</li> <li>Ice hazard bulletin for marine areas: 143, 144, 145, 147, 148, 149 and 150.</li> </ul>
0710	518F1B	<b>➡NAVTEX: (T) English</b> <ul style="list-style-type: none"> <li>Safety Notice to Shipping for NORDREG waters bound by marine areas: 143, 144, 145, 147, 148, 149 and 150.</li> <li>Ice hazard bulletin for marine areas: 143, 144, 145, 147, 148, 149 and 150.</li> </ul>
1000	3253J3C (Resolute) 7710J3C (Iqaluit)	<b>RADIOFACSIMILE: Weather Charts</b> <ul style="list-style-type: none"> <li>Marine Surface Analysis (Arctic).</li> <li>Marine wind prognosis (Arctic) (experimental product).</li> <li>Regional Marine Wind Prognosis (on request).</li> </ul>
1100	3253J3C (Resolute) 7710J3C (Iqaluit)	<b>RADIOFACSIMILE: Ice Charts</b> Transmitted from Resolute: Ice analysis Baffin Bay, Approaches to Resolute, Resolute-Byam, Eureka Sound, McClure Strait, Parry Channel and Queen Maud.  Transmitted from Iqaluit: Ice analysis Hudson Bay south, Hudson Bay north, Hudson Strait, Foxe Basin, Labrador Coast, Davis Strait, Baffin Bay.
1100	490F1B	<b>NAVTEX: (S) French</b> <ul style="list-style-type: none"> <li>Weather forecast for marine areas: 143, 144, 145, 147, 148, 149 and 150.</li> </ul>
1110	518F1B	<b>NAVTEX: (T) English</b> <ul style="list-style-type: none"> <li>Weather forecast for marine areas: 143, 144, 145, 147, 148, 149 and 150.</li> </ul>

1240	2582J3E (Resolute) 4363J3E (Resolute) Ch 26 (Resolute)	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Technical marine synopsis and forecasts for marine areas 125, 135, 136, 137 and 138.</li> <li>Notices to Shipping for all NORDREG waters east of 106W and along the Labrador coast southward to 58N.</li> </ul> <b>Weather forecasts and summaries are available on request for other areas</b>
1320	2514J3E (Coral Harbour) 6507J3E (Coral Harbour)	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Technical marine synopsis and forecasts for marine areas: <b>150, 155, 156, 157, 158, 159, 162, 163, 310, 311 and 312.</b></li> <li>Following areas on request: <b>151, 152, 153, 154, 160, 161 and 164.</b></li> <li>Notices to Shipping for all NORDREG waters east of 106W and along the Labrador coast southward to 58N.</li> </ul>
1410	2514J3E (Killinek)  2582J3E (Iqaluit) 4363J3E (Iqaluit) 6507J3E (Iqaluit) Ch 26 (Iqaluit)	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Technical marine synopsis and forecasts for areas 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 228, 229 and 230.</li> <li>Following areas on request: 137, 138 and 150.</li> <li>Notices to Shipping for all NORDREG waters east of 106W and along the Labrador coast southward to 58N.</li> <li>Notices to Fish Harvesters (when available).</li> </ul>
1500	490F1B	<b>NAVTEX: (S) French</b> <ul style="list-style-type: none"> <li>Weather forecasts for marine areas: 143, 144, 145, 147, 148, 149 and 150.</li> </ul>
1510	518F1B	<b>NAVTEX: (T) English</b> <ul style="list-style-type: none"> <li>Weather forecasts for marine areas: 143, 144, 145, 147, 148, 149 and 150.</li> </ul>
1530	8416.5F1B (Iqaluit)	<b>HF NBDP</b> <ul style="list-style-type: none"> <li>METAREA bulletins for areas 100 to 108, 111 to 142, 153, 154, 170 to 173, and 175 to 177.</li> <li>NAVAREA warnings for NAVAREAs XVII and XVIII.</li> </ul>
➡1705	2514J3E (Coral Harbour/Killinek)  2582J3E (Iqaluit/Resolute) 4363J3E (Iqaluit/Resolute) Ch 26 (Iqaluit/Resolute)  6507J3E (Coral Harbour/Iqaluit)	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Ice boundary information.</li> <li>Ice forecasts for marine areas 125, 135, 136, 137, 138, 139, 140, 141, 142, 144, 145, 146, 147, 148, 149, 150, 155, 156, 157, 158, 159, 162, 163, 228, 229, 230, 310, 311 and 312 for Hudson Bay and Foxe Basin.</li> </ul> <b>Other bulletins on request.</b>
1900	490F1B	<b>➡NAVTEX: (S) French</b> <ul style="list-style-type: none"> <li>Safety Notice to Shipping for NORDREG waters bound by marine areas: 143, 144, 145, 147, 148, 149 and 150.</li> <li>Ice hazard bulletin for marine areas: 143, 144, 145, 147, 148, 149 and 150.</li> </ul>
1910	518F1B	<b>➡NAVTEX: (T) English</b> <ul style="list-style-type: none"> <li>Safety Notice to Shipping for NORDREG waters bound by marine areas: 143, 144, 145, 147, 148, 149 and 150.</li> <li>Ice hazard bulletin for marine areas: 143, 144, 145, 147, 148, 149 and 150.</li> </ul>

2100	3253J3C (Iqaluit) 7710J3C (Resolute)	<b>RADIOFACSIMILE: Weather Charts</b> <ul style="list-style-type: none"> <li>• Marine Surface Analysis (Arctic).</li> <li>• Marine Wind Prognosis (Arctic)(experimental product).</li> <li>• Regional Marine Wind Prognosis (on request).</li> </ul>
2200	3253J3C (Iqaluit) 7710J3C (Resolute)	<b>RADIOFACSIMILE: Ice Charts</b> Transmitted from Resolute: Ice analysis Baffin Bay, Approaches to Resolute, Resolute-Byam, Eureka Sound, McClure Strait, Parry Channel and Queen Maud.  Transmitted from Iqaluit: Ice analysis Hudson Bay south, Hudson Bay north, Hudson Strait, Foxe Basin, Labrador Coast, Davis Strait, Baffin Bay.
2235	2514J3E (Killinek)  2582J3E (Iqaluit) 4363J3E (Iqaluit) 6507J3E (Iqaluit) Ch 26 (Iqaluit)	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis and forecasts for marine areas: 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 228, 229 and 230.</li> <li>• Following areas on request: 137,138 and 150.</li> <li>• Notices to Shipping for all NORDREG waters east of 106W and along the Labrador coast southward to 58N.</li> <li>• Notices to Fish Harvesters (when available).</li> </ul>
2300	490F1B	<b>NAVTEX: (S) French</b> <ul style="list-style-type: none"> <li>• Weather forecast for marine areas: 143, 144, 145, 147, 148, 149 and 150.</li> </ul>
2310	518F1B	<b>NAVTEX: (T) English</b> <ul style="list-style-type: none"> <li>• Weather forecast for marine areas: 143, 144, 145, 147, 148, 149 and 150.</li> </ul>
2310	2582J3E (Resolute) 4363J3E (Resolute) Ch 26 (Resolute)	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis and forecasts for marine areas 125, 135, 136, 137 and 138.</li> <li>• Notices to Shipping for all NORDREG waters east of 106W and along the Labrador coast southward to 58N.</li> </ul> <p><b>Weather forecasts and summaries are available on request for other areas</b></p>

**MCTS Iqaluit / VFF – Radiofacsimile Transmission Details**

Modulation: J3C (FM)	Index of cooperation: 576	Power: 1 KW
Drum speed: 120 rpm	Frequencies: 3251.1 kHz, 7708.1 kHz (USB)	
	Frequencies: 3253 kHz, 7710 kHz (FSK)	
For correct reception of this broadcast on WMO standard facsimile recorders requiring 2300 Hz for White and 1500 Hz for Black with a 1900 Hz centre frequency, radio receivers should be tuned in the UPPER SIDEBAND MODE to the ABOVE frequencies.		



## LABRADOR (GOOSE BAY), NEWFOUNDLAND AND LABRADOR Marine Communications and Traffic Services Centre

**MMSI: 003160022****Call Sign: VOK****Hours: H24**

**For Radio Services call Labrador Coast Guard Radio.  
Services in English only.**

**Mailing Address:** Fisheries and Oceans Canada  
Canadian Coast Guard  
Officer-in-Charge – MCTS Operations  
Labrador MCTS Centre  
P.O. Box 720 Station C  
GOOSE BAY, NL A0P 1C0

**Telephone Numbers:**    **709-896-2252**                      **MCTS Operations**

709-896-5817                      Officer-in-Charge

**Facsimile:**                      709-896-8455

**Email:**                      [ECAGOY@INNAV.GC.CA](mailto:ECAGOY@INNAV.GC.CA)

### MCTS Labrador / VOK – Ship/Shore Communications

COMMUNICATION SITES LOCATED AT:	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
Cartwright 53°42'30"N 57°01'17"W	407 *	2182J3E 2514J3E 2538J3E 2582J3E 4375.0J3E	<b>2182</b> 2118 * 2142 * 2206 * 4083.0 *	
Hopedale 55°27'24"N 60°12'30"W	407 * 605 * Ch16 Ch26 * Ch70	2182J3E 2514J3E 2538J3E 2582J3E 4375.0J3E 6513J3E	<b>2182</b> 2118 * 2142 * 2206 * 4083.0 * 6212 *	
Cartwright 53°43'38"N 56°58'06"W	Ch16 Ch24 * Ch70			
Goose Bay 53°18'12"N 60°31'27"W	Ch16 Ch26 * Ch70			
Nain 56°32'49"N 61°42'49"W	Ch16 Ch24 * Ch70			

**MCTS Labrador / VOK – Broadcasts**

TIME UTC	FREQUENCY	CONTENTS
0137	2598J3E (Cartwright) 2598J3E (Hopedale)	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis, forecasts and wave height forecasts for marine areas 222, 223, 224, 225, 226, 227, 228, 229 and 230.</li> <li>• Ice Edge &amp; Conditions for Labrador Coast.</li> </ul>
0350	518FIB	<b>NAVTEX: (X)</b> <ul style="list-style-type: none"> <li>• Weather.</li> </ul>
0750	518FIB	<b>NAVTEX: (X)</b> <ul style="list-style-type: none"> <li>• Weather.</li> </ul>
0910	518FIB	<b>NAVTEX: (X)</b> <ul style="list-style-type: none"> <li>• Arctic Weather for areas 141, 142, 144, and 145.</li> </ul>
1007	2598J3E (Cartwright) 2598J3E (Hopedale)	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis, forecasts and wave height forecasts for marine areas 222, 223, 224, 225, 226, 227, 228, 229 and 230.</li> <li>• Ice conditions and forecast for Labrador Coast.</li> </ul>
1107	2598J3E (Cartwright) 2598J3E (Hopedale)	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Notices to Shipping: <ul style="list-style-type: none"> <li>Nearshore - Belle Isle to Cape Chidley.</li> <li>Offshore - North Atlantic, Cape Bauld to Cape Chidley.</li> </ul> </li> <li>• Notices to Fish Harvesters (when available).</li> </ul>
1150	518FIB	<b>NAVTEX: (X)</b> <ul style="list-style-type: none"> <li>• Notices to Shipping.</li> </ul>
1437	2598J3E (Cartwright) 2598J3E (Hopedale)	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis and forecasts for marine areas 222, 223, 224, 225, 226, 227, 228, 229 and 230.</li> <li>• Ice conditions and forecast for Labrador Coast.</li> </ul>
1550	518FIB	<b>NAVTEX: (X)</b> <ul style="list-style-type: none"> <li>• Weather.</li> </ul>
1950	518FIB	<b>NAVTEX: (X)</b> <ul style="list-style-type: none"> <li>• Weather.</li> </ul>
2037	2598J3E (Cartwright) 2598J3E (Hopedale)	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis and forecasts for marine areas 222, 223, 224, 225, 226, 227, 228, 229 and 230.</li> <li>• Ice Edge &amp; Conditions for Labrador Coast.</li> <li>• Notices to Fish Harvesters (when available).</li> </ul>
2110	518FIB	<b>NAVTEX: (X)</b> <ul style="list-style-type: none"> <li>• Arctic Weather for areas 141, 142, 144, and 145.</li> </ul>
2307	2598J3E (Cartwright) 2598J3E (Hopedale)	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Notices to Shipping: <ul style="list-style-type: none"> <li>Nearshore - Belle Isle to Cape Chidley.</li> <li>Offshore - North Atlantic, Cape Bauld to Cape Chidley.</li> </ul> </li> </ul>
2350	518FIB	<b>NAVTEX: (X)</b> <ul style="list-style-type: none"> <li>• NOTSHIPS (summer) Ice (winter).</li> </ul>
Continuous	Ch83B Cartwright Nain  Ch21B Goose Bay Hopedale	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis, forecasts and wave height forecasts for marine areas 222, 223, 224, 225, 226, 227 and 228.</li> <li>• Actual weather observations (when available) for the following sites: <ol style="list-style-type: none"> <li>1. Goose Bay</li> <li>2. Cartwright</li> <li>3. Makkovik</li> <li>4. Hopedale</li> <li>5. Nain</li> <li>6. Mary's Harbour</li> </ol> </li> <li>• Ice Edge &amp; Conditions for Labrador Coast.</li> <li>• Notices to Shipping: Belle Isle to Cape Chidley.</li> <li>• Notices to Fish Harvesters (when available).</li> </ul>

## LES ESCOUMINS, QUÉBEC

### Marine Communications and Traffic Services Centre

**MMSI: 003160026****Call Sign: VCF****Hours: H24****For Radio Services call Les Escoumins Coast Guard Radio.****➡For Vessel Traffic Services call Escoumins Traffic – refer to section 3.****Services in English and in French.**

**Mailing Address:** Fisheries and Oceans Canada  
Canadian Coast Guard  
Officer-in-Charge – MCTS Operations  
Les Escoumins MCTS Centre  
35 Otis Street  
LES ESCOUMINS, QC G0T 1K0

**Telephone Numbers:**    **418-233-2194**                      **MCTS Operations**  
  
   418-233-2854                      Officer-in-Charge

**Facsimile:**                      418-233-3299**Email:**                      [LesSector1@innav.gc.ca](mailto:LesSector1@innav.gc.ca)

◆ **Les Escoumins MCTS Centre VHF Direction Finding Advisory Service:**

A VHF/DF advisory service is available to vessels in difficulty within range of the receiver sites located at Mont-Louis, Lac Daigle (Sept-Îles) and Grosses-Roches. Information concerning position, bearing and distance may be provided for use at the discretion of the user.

**MCTS Les Escoumins / VCF – Ship/Shore Communications**

COMMUNICATIONS SITES LOCATED AT:	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
Mont-Louis ● 49°12'48"N 65°46'25"W	<b>Ch14</b> <b>Ch16</b> Ch26 ★ <b>Ch70</b>			
Lac Daigle ● 50°17'25"N 66°18'36"W	<b>Ch14</b> <b>Ch16</b> Ch26 ★ <b>Ch70</b>			
Grosses-Roches ● 48°54'50"N 67°06'37"W	<b>Ch14</b> <b>Ch16</b> Ch84 ★ <b>Ch70</b>			
Mont-Joli 48°36'25"N 68°13'33"W	<b>Ch 9</b> <b>Ch16</b> Ch26 ★ <b>Ch70</b>			

Les Escoumins 48°19'04"N 69°25'14"W	<b>Ch 9</b> <b>Ch16</b> Ch24 <b>*</b> <b>Ch70</b>			
Rivière-du-Loup 47°45'35"N 69°36'19"W	<b>Ch 9</b> <b>Ch16</b> Ch26 <b>*</b>			
Sacré-Coeur 48°12'50"N 69°52'14"W	<b>Ch 9</b> <b>Ch16</b> Ch26 <b>*</b> <b>Ch70</b>			
Cap à l'Est 48°22'58"N 70°41'13"W	<b>Ch9</b> <b>Ch16</b> Ch26 <b>*</b> <b>Ch70</b>			

**MCTS Les Escoumins / VCF – Broadcasts**

TIME UTC	FREQUENCY	CONTENTS
Continuous	Ch21B Lac Daigle Grosses-Roches Cap à l'Est Ch83B Mont-Louis Mont-Joli Sacré-Coeur	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Forecasts for marine areas 219, 301, 302, 303, 304 and 305.</li> <li>• Notices to Shipping for the Saguenay River and an the St. Lawrence river from Île aux Coudres to a line from Mingan to Cap Gaspé including Port Menier and the western point of Anticosti Island.</li> <li>• Ice information for the Saguenay river and the St. Lawrence river from Île aux Coudres to Cabot and Belle-Isle straits. (when available).</li> <li>• Notices to Fish Harvesters (when available).</li> </ul>

Hourly weather observations for certain specific locations, technical marine synopses, ➡ other weather forecast areas and MAFOR codes are available upon request

## MONTRÉAL, QUÉBEC

### Marine Communications and Traffic Services Centre

**MMSI: 003160028****Call Sign: VFN****Hours: H24****For Radio Services call Montréal Coast Guard Radio.****For Vessel Traffic Services call Montréal Traffic - refer to section 3.****Services in English and in French.**

**Mailing Address:** Fisheries and Oceans Canada  
Canadian Coast Guard  
Officer-in-Charge – MCTS Operations  
Montréal MCTS Centre  
101 Rolland Therrien Boulevard  
5<sup>th</sup> Floor  
LONGUEUIL, QC J4H 4B9

**Telephone Numbers:**    **450-928-4544**                      **MCTS Operations**

450-928-4543                      Officer-in-Charge

**Facsimile:**                      450-928-4547

**Email:**                      [mtlsup@innav.gc.ca](mailto:mtlsup@innav.gc.ca)

**Public correspondence services are no longer available.**

#### **MCTS Montréal / VFN – Ship/Shore Communications**

COMMUNICATION SITES LOCATED AT :	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
Longueuil 45°32'57"N 73°29'47"W	<b>Ch10</b> <b>Ch16</b>			
Mont Saint-Bruno 45°33'25"N 73°19'33"W	<b>Ch10</b> <b>Ch16</b> Ch24 <b>Ch70</b> Ch85			
Mont Rigaud 45°27'00"N 74°17'48"W	<b>Ch16</b> <b>Ch70</b> Ch84			Operational from mid March until the end of December
Sorel 46°02'45"N 73°06'52"W	<b>Ch10</b> <b>Ch16</b> Ch26 <b>Ch70</b>			
L'Acadie 45°19'17"N 73°18'34"W	<b>Ch16</b> Ch24 <b>Ch70</b>			Operational May 1 to October 31

**MCTS Montréal / VFN – Broadcasts**

TIME UTC	FREQUENCY	CONTENTS
Continuous	Ch21B Mont Saint-Bruno Ch25B Mont Rigaud	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis and forecasts for areas 308 and 309.</li> <li>• Water level Montréal, Sorel, Trois-Rivières, Pointe Claire, Ste Anne de Bellevue.</li> <li>• Notices to Shipping from Cornwall to buoy S-2 and from the entrance of the Outaouais River to buoy H-331.</li> <li>• Ice Reports.</li> <li>• Seaway Message.</li> </ul>
Continuous	Ch25B Sorel	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis and forecasts for areas 308 and 309.</li> <li>• Water level Montréal, Sorel, Trois-Rivières, Pointe-Claire (from May 1 to October 31), Ste-Anne de Bellevue (from May 1 to October 31).</li> <li>• Notices to Shipping.</li> <li>• Ice Reports.</li> <li>• Seaway message.</li> </ul>
Continuous	Ch83B L'Acadie	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Forecasts for areas 308 and 309.</li> <li>• Water level Montréal, Sorel, Trois-Rivières, Pointe-Claire (from May 1 to October 31), Ste-Anne de Bellevue (from May 1 to October 31).</li> <li>• Notices to Shipping from the entrance of the Richelieu River to the US border including Missisquoi Bay.</li> <li>• Seaway Message.</li> </ul>

Hourly weather observations for specific locations, technical marine synopsis, ➡ other weather forecast areas and MAFOR are available upon request

## PLACENTIA, NEWFOUNDLAND AND LABRADOR

### Marine Communications and Traffic Services Centre

**MMSI: 003160019****Call Sign: VCP****Hours: H24****For Radio Service call Placentia Coast Guard Radio.****For Vessel Traffic Services call Placentia Traffic - refer to section 3.****Services in English only.**

**Mailing Address:** Fisheries and Oceans Canada  
Canadian Coast Guard  
Officer-in-Charge – MCTS Operations  
Placentia MCTS Centre  
P.O. Box 389  
PLACENTIA, NL A0B 2Y0

**Telephone Numbers:** **709-227-2181/2182**      **MCTS Operations**  
  
709-227-5731      Officer-in-Charge

**Facsimile:** 709-227-5637**Email:** [ECAPLA@INNAV.GC.CA](mailto:ECAPLA@INNAV.GC.CA)

◆ **Placentia MCTS Centre VHF/DF Advisory Service:**

A VHF/DF Advisory Service is available to vessels in difficulty within range of the Fortune Head VHF peripheral site controlled from Placentia MCTS Centre. Bearing information to/from Fortune Head can be provided for use at the discretion of the user.

**MCTS Placentia / VCP – Ship/Shore Communications**

COMMUNICATION SITES LOCATED AT:	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
St. Lawrence 46°55'09"N 55°22'45"W	Ch16 Ch26 ★ Ch70			
St. Lawrence 46°55'06"N 55°22'45"W		2182J3E 2514J3E 2538J3E 2582J3E	<b>2182</b> 2118 ★ 2142 2206 ★	
Cape Pine 46°37'00"N 53°31'58"W	Ch16 Ch24 ★ Ch70			
Fortune Head ◆ 47°04'02"N 55°50'52"W	Ch16 Ch24 ★ Ch70			
Hermitage 47°33'34"N 55°56'19"W	Ch16 Ch70 Ch85			

Bay L'Argent 47°32'00"N 54°51'46"W	<b>Ch16</b> <b>Ch27</b> <b>Ch70</b>			
Arnold's Cove 47°46'23"N 53°59'59"W	<b>Ch12</b> <b>Ch16</b> <b>Ch70</b>			
Freshwater 47°15'44"N 53°59'03"W	<b>Ch12</b> <b>Ch14</b> <b>Ch16</b> <b>Ch70</b> <b>Ch85</b>			
Cuslett 46°58'28"N 54°09'15"W	<b>Ch14</b> <b>Ch16</b> <b>Ch70</b>			

**MCTS Placentia / VCP – Broadcasts**

TIME UTC	FREQUENCY	CONTENTS
0048	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Technical marine synopsis, forecasts and wave height forecasts for marine areas 231, 232, 233, 234, 235 and 236.</li> <li>Weather and Wave height forecasts for marine areas 213 and 215.</li> </ul>
0737	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Technical marine synopsis and forecasts for marine areas 231, 232, 233, 234, 235 and 236.</li> <li>Weather forecasts for marine areas 213 and 215.</li> <li>Ice Edge and Conditions South Coast east of Penguin Island, East Coast to Cape Freels.</li> <li>Notices to Fish Harvesters (when available).</li> </ul>
1137	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Notices to Shipping Ramea Island to Cape Ballard.</li> <li>Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.</li> </ul>
1607	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Technical marine synopsis, forecasts and wave height forecasts for marine areas 231, 232, 233, 234, 235 and 236.</li> <li>Weather and Wave height forecasts for marine areas 213 and 215.</li> </ul>
1807	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Notices to Shipping Ramea Island to Cape Ballard.</li> <li>Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.</li> </ul>
2137	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Technical marine synopsis and forecasts for marine areas 231, 232, 233, 234, 235 and 236.</li> <li>Weather forecasts for marine areas 213 and 215.</li> <li>Ice Edge and Conditions South Coast east of Penguin Island, East Coast to Cape Freels.</li> <li>Notices to Fish Harvesters (when available).</li> </ul>



**MCTS Placentia / VCP – Broadcasts**

TIME UTC	FREQUENCY	CONTENTS						
Continuous	Ch21B St. Lawrence Bay L' Argent	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"><li>• Technical marine synopsis, forecasts and wave height forecasts for marine areas 231, 232, 233, 234, 235 and 236.</li><li>• Weather and wave height forecasts for marine areas 213 and 215.</li><li>• Actual weather observations (when available) for the following sites:<table><tr><td>1. Cape Race</td><td>4. Marticot</td></tr><tr><td>2. Argentia</td><td>5. Sagona</td></tr><tr><td>3. St. Pierre</td><td>6. St. Lawrence</td></tr></table></li><li>• Ice Edge and Conditions South Coast east of Penguin Island, East Coast to Cape Freels.</li><li>• Notices to Shipping Ramea Island to Cape Ballard.</li><li>• Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.</li><li>• Notices to Fish Harvesters (when available).</li><li>• Notices to Shipping Placentia Bay and Approaches, Ferryland Head to Cape St. Mary's on Ch23B only.</li></ul>	1. Cape Race	4. Marticot	2. Argentia	5. Sagona	3. St. Pierre	6. St. Lawrence
	1. Cape Race		4. Marticot					
	2. Argentia		5. Sagona					
	3. St. Pierre		6. St. Lawrence					
	Ch23B Freshwater							
Ch28B Hermitage								
Ch83B Cape Pine								
Fortune Head								

## PORT AUX BASQUES, NEWFOUNDLAND AND LABRADOR

### Marine Communications and Traffic Services Centre

**MMSI: 003160018****Call Sign: VOJ****Hours: H24****For Radio Services call Port aux Basques Coast Guard Radio.****For Vessel Traffic Services call Port aux Basques Traffic - refer to section 3.****Services in English and in French.**

**Mailing Address:** Fisheries and Oceans Canada  
Canadian Coast Guard  
Officer-in-Charge – MCTS Operations  
Port aux Basques MCTS Centre  
P.O. Box 99  
PORT AUX BASQUES, NL A0M 1C0

**Telephone Numbers:**   **709-695-2167**       **MCTS Operations**  
                                  709-695-2133       Officer-in-Charge  
                                  709-695-2168       NOTSHIP Desk

**Facsimile:** 709-695-7784**Email:** [PAXTFC@INNAV.GC.CA](mailto:PAXTFC@INNAV.GC.CA)**MCTS Port aux Basques / VOJ – Ship/Shore Communications**

COMMUNICATION SITES LOCATED AT:	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
Table Mountain 47°41'14"N 59°16'26"W	<b>Ch11</b> <b>Ch12</b> <b>Ch16</b> <b>Ch27 *</b> <b>Ch70</b>			
Stephenville 48°33'17"N 58°45'32"W		2182J3E 2514J3E 2582J3E	<b>2182</b> 2118 * 2206 *	
Pine Tree 48°35'20"N 58°39'54"W	<b>Ch16</b> <b>Ch24 *</b> <b>Ch70</b>			
Bonne Bay 49°36'10"N 57°57'28"W	<b>Ch16</b> <b>Ch24 *</b> <b>Ch70</b>			
Mount Moriah 48°58'07"N 58°02'49"W	<b>Ch16</b> <b>Ch24 *</b> <b>Ch70</b>			
Ramea Island 47°30'45"N 57°24'31"W	<b>Ch16</b> <b>Ch26 *</b> <b>Ch70</b>			
Pointe Riche 50°41'59"N 57°24'19"W	<b>Ch16</b> <b>Ch26 *</b> <b>Ch70</b>			

**MCTS Port aux Basques / VOJ – Broadcasts**

TIME UTC	FREQUENCY	CONTENTS												
0207	2598J3E	<b>RADIOTELEPHONY: (English followed by French)</b> <ul style="list-style-type: none"><li>Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222 and 231.</li><li>Weather forecast and wave height forecast for marine areas 215, 217 and 219.</li></ul>												
0807	2598J3E	<b>RADIOTELEPHONY: (English followed by French)</b> <ul style="list-style-type: none"><li>Technical marine synopsis and forecasts for marine areas 220, 221, 222 and 231.</li><li>Weather forecast for marine areas 215, 217 and 219.</li><li>Ice Edge &amp; Conditions for marine areas Northeast Gulf, Gulf Port au Port, Southwest Coast, Cabot Strait, Gulf-Magdalen and Anticosti.</li></ul>												
1207	2598J3E	<b>RADIOTELEPHONY: (English followed by French)</b> <ul style="list-style-type: none"><li>Notices to Shipping from Penguin Island to Cape Norman including Labrador Coast between West Point (Red Bay) and the Québec/Labrador border.</li><li>Notices to Fish Harvesters (when available).</li></ul>												
1507	2598J3E	<b>RADIOTELEPHONY: (English followed by French)</b> <ul style="list-style-type: none"><li>Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222 and 231.</li><li>Weather forecast and wave height forecast for marine areas 215, 217 and 219.</li></ul>												
1837	2598J3E	<b>RADIOTELEPHONY: (English followed by French)</b> <ul style="list-style-type: none"><li>Notices to Shipping from Penguin Island to Cape Norman including Labrador Coast between West Point (Red Bay) and the Québec/Labrador border.</li><li>Ice Edge &amp; Conditions for marine areas Northeast Gulf, Gulf Port au Port, Southwest Coast, South Coast, East Coast south of Cape St. Francis, Cabot Strait, Gulf-Magdalen and Anticosti.</li></ul>												
2107	2598J3E	<b>RADIOTELEPHONY: (English followed by French)</b> <ul style="list-style-type: none"><li>Technical marine synopsis and forecasts for marine areas 220, 221, 222 and 231.</li><li>Weather forecast for marine areas 215, 217 and 219.</li><li>Notices to Fish Harvesters (when available).</li></ul>												
Continuous	Ch21B Ramea Island Pointe Riche  Ch 28B Table Mountain Pine Tree Mount Moriah  Ch83B Bonne Bay	<b>RADIOTELEPHONY: (English)</b> <ul style="list-style-type: none"><li>Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222 and 231.</li><li>Weather forecast and wave height forecast for marine areas 215, 217 and 219.</li><li><b>Actual weather observations (when available) for the following sites:</b><table><tr><td>1. St. Paul Island</td><td>7. Rocky Harbour</td></tr><tr><td>2. Burgeo</td><td>8. Daniel's Harbour</td></tr><tr><td>3. Port aux Basques</td><td>9. Ferolle Point</td></tr><tr><td>4. Wreckhouse</td><td>10. Blanc Sablon</td></tr><tr><td>5. Stephenville</td><td>11. Burgeo Bank ODAS</td></tr><tr><td>6. Corner Brook</td><td>12. Nickerson Bank ODAS</td></tr></table></li><li>Notices to Shipping from Penguin Island to Cape Norman including Labrador between West Point (Red Bay) and the Québec/Labrador border.</li><li>Ice Edge &amp; Conditions for marine areas Northeast Gulf, Gulf Port au Port, Southwest Coast, South Coast, East Coast south of Cape St. Francis, Cabot Strait, Gulf-Magdalen and Anticosti.</li><li>Notices to Fish Harvesters (when available).</li></ul>	1. St. Paul Island	7. Rocky Harbour	2. Burgeo	8. Daniel's Harbour	3. Port aux Basques	9. Ferolle Point	4. Wreckhouse	10. Blanc Sablon	5. Stephenville	11. Burgeo Bank ODAS	6. Corner Brook	12. Nickerson Bank ODAS
1. St. Paul Island	7. Rocky Harbour													
2. Burgeo	8. Daniel's Harbour													
3. Port aux Basques	9. Ferolle Point													
4. Wreckhouse	10. Blanc Sablon													
5. Stephenville	11. Burgeo Bank ODAS													
6. Corner Brook	12. Nickerson Bank ODAS													

Continuous	Ch23B Pointe Riche	<b>RADIOTELEPHONY: (French)</b> <ul style="list-style-type: none"><li>• Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222 and 231.</li><li>• Weather forecast and wave height forecast for marine areas 215, 217 and 219.</li><li>• <b>Actual weather observations (when available) for the following sites:</b><table><tr><td>1. St. Paul Island</td><td>7. Rocky Harbour</td></tr><tr><td>2. Burgeo</td><td>8. Daniel’s Harbour</td></tr><tr><td>3. Port aux Basques</td><td>9. Ferolle Point</td></tr><tr><td>4. Wreckhouse</td><td>10. Blanc Sablon</td></tr><tr><td>5. Stephenville</td><td>11. Burgeo Bank ODAS</td></tr><tr><td>6. Corner Brook</td><td>12. Nickerson Bank ODAS</td></tr></table></li><li>• Notices to Shipping from Penguin Island to Cape Norman including Labrador between West Point (Red Bay) and the Québec/Labrador border.</li><li>• Ice Edge &amp; Conditions for marine areas Northeast Gulf, Gulf Port au Port, Southwest Coast, South Coast, East Coast south of Cape St. Francis, Cabot Strait, Gulf-Magdalen and Anticosti.</li><li>• Notices to Fish Harvesters (when available).</li></ul>	1. St. Paul Island	7. Rocky Harbour	2. Burgeo	8. Daniel’s Harbour	3. Port aux Basques	9. Ferolle Point	4. Wreckhouse	10. Blanc Sablon	5. Stephenville	11. Burgeo Bank ODAS	6. Corner Brook	12. Nickerson Bank ODAS
	1. St. Paul Island		7. Rocky Harbour											
	2. Burgeo		8. Daniel’s Harbour											
	3. Port aux Basques		9. Ferolle Point											
4. Wreckhouse	10. Blanc Sablon													
5. Stephenville	11. Burgeo Bank ODAS													
6. Corner Brook	12. Nickerson Bank ODAS													
Ch21B Bonne Bay														
Ch83B Pine Tree														
Mount Moriah														

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**PRESCOTT, ONTARIO**  
**Marine Communications and Traffic Services Centre**

**MMSI: 003160029****Call Sign: VBR****Hours: H24****For Radio Service call Prescott Coast Guard Radio.  
Services in English and in French.**

**Mailing Address:** Fisheries and Oceans Canada  
Canadian Coast Guard  
Officer-in-Charge – MCTS Operations  
Prescott MCTS Centre  
P.O. Box 1000  
401 King Street West  
PRESCOTT, ON K0E 1T0

**Telephone Numbers: 613-925-4471****MCTS Operations**

613-925-0618

Officer-in-Charge

**Facsimile:** 1-613-925-4519**Email:** [vbr@dfo-mpo.gc.ca](mailto:vbr@dfo-mpo.gc.ca)

Prescott MCTS

[navarea17.18@innav.gc.ca](mailto:navarea17.18@innav.gc.ca)

Navarea XVII and XVIII

[NotshipC&A@dfo-mpo.gc.ca](mailto:NotshipC&A@dfo-mpo.gc.ca)

Notship Desk

[iqanordreg@innav.gc.ca](mailto:iqanordreg@innav.gc.ca)

NORDREG

➡(late December to mid-May)

**Public correspondence services are no longer available.****● Prescott MCTS Centre VHF Direction Finding Advisory Service:**

A VHF/DF advisory service is available for vessels in difficulty in western Lake Ontario within range of the receiver sites located at Brougham, Cobourg and Trafalgar. Information concerning position, bearing and distance may be provided for use at the discretion of the user.

**MCTS Prescott / VBR – Ship/Shore Communications**

COMMUNICATIONS SITES LOCATED AT:	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
Cornwall 45°01'06"N 74°43'47"W	Ch16 Ch70 Ch85			Operational March 15 to December 31.
Cardinal 44°47'17"N 75°25'19"W	Ch16 Ch26 Ch27 Ch70			Operational March 15 to December 31.
Gananoque 44°23'59"N 75°58'23"W	Ch16 Ch85			Operational March 15 to December 31.
Kingston 44°15'46"N 76°40'39"W	Ch16 Ch24 Ch26 Ch70			
Cobourg ● 44°03'59"N 78°12'41"W	Ch16 Ch27 Ch70 Ch85			
Trafalgar ● 43°29'41"N 79°43'48"W	Ch16 Ch24 Ch70			
Fonthill 43°03'11"N 79°18'42"W	Ch16 Ch26 Ch27 Ch70			
Orillia 44°34'40"N 79°17'40"W	Ch16 Ch26 Ch70			

**MCTS Prescott / VBR – Broadcasts**

TIME UTC	FREQUENCY	CONTENTS
0110	518F1B	<b>NAVTEX: (H)</b> • Notices to Shipping. • Ice (during ice season).
0510	518F1B	<b>NAVTEX: (H)</b> • Weather.
0910	518F1B	<b>NAVTEX: (H)</b> • Weather.
1310	518F1B	<b>NAVTEX: (H)</b> • Notices to Shipping. • Ice (during ice season).
1710	518F1B	<b>NAVTEX: (H)</b> • Weather.
2110	518F1B	<b>NAVTEX: (H)</b> • Weather.

**MCTS Prescott / VBR – Broadcasts**

TIME UTC	FREQUENCY	CONTENTS
Continuous CMB EAST	Ch21B Cardinal  Ch83B Cornwall Kingston	<b>RADIOTELEPHONY: (English)</b> <ul style="list-style-type: none"> <li>Localized Weather Warnings/Watches, Marine Weather Statements, Technical Marine Synopsis, Regular Marine Forecasts, MAFOR code, Wave Height Forecast and Extended Marine Forecasts for St. Lawrence River from Kingston to Montréal and Lake Ontario (Areas 309, 401 and 402).</li> <li>Notices to Shipping in St. Lawrence River west of 73 53 W, Lake Ontario east of 77 40 W, Trent River and portions of the Rideau waterway system receiving coverage from the Kingston facilities.</li> <li>Water level readings for Montréal Harbour, and Lake Ontario.</li> <li>Ice hazard bulletin for Lake Ontario and Lake Erie.</li> </ul>
Continuous CMB WEST	Ch21B Cobourg  Ch83B Fonthill	<b>RADIOTELEPHONY: (English)</b> <ul style="list-style-type: none"> <li>Localized Weather Warnings/Watches, Marine Weather Statements, Technical Marine Synopsis, Regular Marine Forecasts, MAFOR code, Wave Height Forecast and Extended Marine Forecasts for Lake Ontario and Lake Erie (Areas 402 and 403).</li> <li>Notices to Shipping in Lake Ontario and Lake Erie east of 80 20 W and portions of the Trent-Severn waterway system receiving coverage from the Cobourg facilities.</li> <li>Water level readings for Toronto Harbour, Lake Ontario and Lake Erie.</li> <li>Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.</li> <li>Ice hazard bulletin for Lake Ontario and Lake Erie.</li> </ul>
Continuous	Ch28B Cardinal  Ch23B Cornwall Kingston	<b>RADIOTELEPHONY: (French)</b> <ul style="list-style-type: none"> <li>Localized Weather Warnings/Watches, Marine Weather Statements, Technical Marine Synopsis, Regular Marine Forecasts, MAFOR code and Extended Marine Forecasts for St. Lawrence River from Kingston to Montréal (Areas 309 and 401).</li> <li>Notices to Shipping in the St Lawrence River west of 73 53 W.</li> <li>Water level readings for Montréal Harbour.</li> <li>Operational March 15 to December 31.</li> </ul>
Continuous	Ch21B Orillia	<b>RADIOTELEPHONY: (English)</b> <ul style="list-style-type: none"> <li>Localized Weather Warnings/Watches, Marine Weather Statements, Technical Marine Synopsis, Regular Marine Forecasts, MAFOR code, Wave Height Forecast and Extended Marine Forecasts for Georgian Bay (Area 406).</li> <li>Recreational Boating Forecast for Lake Simcoe (Area 481).</li> <li>Current small craft weather reports.</li> <li>Notices to Shipping for the Trent-Severn waterway system.</li> </ul>

## QUÉBEC, QUÉBEC

### Marine Communications and Traffic Services Centre

**MMSI: 003160027****Call Sign: VCC****Hours: H24****For Radio Services call Québec Coast Guard Radio.****For Vessel Traffic Services call Québec Traffic - refer to section 3.****Services in English and in French.**

**Mailing Address:** Fisheries and Oceans Canada  
Canadian Coast Guard  
Officer-in-Charge – MCTS Operations  
Québec MCTS Centre  
101 Champlain Boulevard  
QUÉBEC, QC G1K 7Y7

**Telephone Numbers: 418-648-4427 MCTS Operations**

418-648-7459 Officer-in-Charge

**Facsimile:** 418-648-7244**Email:** [QUERAA1@INNAV.GC.CA](mailto:QUERAA1@INNAV.GC.CA)

#### ◆ Québec MCTS Centre VHF Direction Finding Advisory Service:

A VHF/DF advisory service is available to vessels in difficulty within range of the receiver sites located at Montmagny and Rivière-du-Loup. Information concerning position, bearing and distance may be provided for use at the discretion of the user.

**Public correspondence services are no longer available.**

#### MCTS Québec / VCC – Ship/Shore Communications

COMMUNICATION SITES LOCATED AT:	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
Lauzon 46°48'45"N 71°09'33"W	<b>Ch12</b> <b>Ch16</b> Ch26 <b>Ch70</b>			
Trois-Rivières 46°23'50"N 72°27'17"W	<b>Ch13</b> <b>Ch16</b> Ch24 <b>Ch70</b>			
Mont Bélair 46°49'22"N 71°29'45"W	<b>Ch13</b> <b>Ch16</b> Ch85 <b>Ch70</b>			
Montmagny ◆ 46°55'42"N 70°30'45"W	<b>Ch12</b> <b>Ch16</b> Ch24 <b>Ch70</b>			



Rivière-du-Loup 47°45'35"N 69°36'19"W	<b>Ch12</b> <b>Ch16</b> <b>Ch70</b> Ch85			
Sorel 46°02'45"N 73°06'52"W	<b>Ch13</b> <b>Ch16</b>			

**MCTS Québec / VCC – Broadcasts**

TIME UTC	FREQUENCY	CONTENTS
Continuous	Ch21B Lauzon Rivière-du-Loup  Ch83B Montmagny Trois-Rivières	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Forecasts for areas 305, 306, 307 and 308.</li> <li>• Notices to Shipping from Lac St. Pierre (Buoy S-100) up to Les Escoumins-Trois Pistoles.</li> <li>• Ice information for the St. Lawrence.</li> <li>• Seaway Radio Message.</li> </ul>

Hourly weather observations for specific locations, technical marine synopsis, ➡ other weather forecast areas and MAFOR are available upon request

## RIVIÈRE-AU-RENARD, QUÉBEC

### Marine Communications and Traffic Services Centre

**MMSI: 003160025****Call Sign: VCG****Hours: H24**

**For Radio Services call Rivière-au-Renard Coast Guard Radio.**  
**Services in English and in French.**

**Mailing Address:** Fisheries and Oceans Canada  
Canadian Coast Guard  
Officer-in-Charge – MCTS Operations  
Rivière-au-Renard MCTS Centre  
P.O. Box 100  
RIVIÈRE-AU-RENARD, QC G4X 5A5

**Telephone Numbers:**      **418-269-5686**      **MCTS Operations**

418-269-7188      Officer-in-Charge  
418-269-3843      ECAREG Operations

**Facsimile:**      418-269-5514

**Email:**      [RARECAREG@INNAV.GC.CA](mailto:RARECAREG@INNAV.GC.CA)

◆ **Rivière-au-Renard MCTS Centre VHF Direction Finding Advisory Service:**

A VHF/DF advisory service is available to vessels in difficulty within range of the receiver sites located at Rivière-au-Renard, Cap-aux-Meules, Havre St-Pierre, Natashquan, Newport and Heath-Point. Information concerning position, bearing and distance may be provided for use at the discretion of the user.

**MCTS Rivière-au-Renard / VCG - Ship/Shore Communications**

COMMUNICATION SITES LOCATED AT:	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
Rivière-au-Renard ● 49°00'29"N 64°24'00"W	<b>Ch16</b>			
	<b>Ch27 *</b>			
			<b>2182</b> 2118 * 2206 *	
Cap des Rosiers 48°51'40"N 64°12'53"W		2182J3E 2514J3E 2582J3E		
Cap-aux-Meules ● 47°23'14"N 61°51'40"W	<b>Ch16</b>			
	<b>Ch27 *</b> <b>Ch70</b>			
			<b>2182</b> 2118 * 2206	

La Vernière 47°21'26"N 61°55'36"W		2182J3E 2514J3E 2582J3E		
Havre St- Pierre ● 50°16'15"N 63°40'44"W	<b>Ch16</b> Ch26 ★ <b>Ch70</b>			
Natashquan ● 50°08'40"N 61°48'00"W	<b>Ch16</b> Ch26 ★ <b>Ch70</b>			
Natashquan 50°08'40"N 61°48'00"W		2182J3E 2582J3E	<b>2182</b> 2206	
Harrington Harbour 50°30'00"N 59°29'17"W	<b>Ch16</b> Ch26 ★ <b>Ch70</b>			
La Romaine 50°12'57"N 60°41'13"W	<b>Ch16</b> Ch26 ★ <b>Ch70</b>			
Forillon 48°50'02"N 64°15'30"W	<b>Ch16</b> Ch24 ★ <b>Ch70</b>			
Carleton 48°08'00"N 66°07'20"W	<b>Ch16</b> <b>Ch70</b> Ch85 ★			
Newport ● 48°13'37"N 64°47'33"W	<b>Ch16</b> <b>Ch70</b> Ch84 ★			
Heath Point ● 49°05'05"N 61°42'09"W	<b>Ch16</b> Ch84 ★ <b>Ch70</b>			

**MCTS Rivière-au-Renard / VCG – Broadcasts**

TIME UTC	FREQUENCY	CONTENTS
0020	518F1B	<b>NAVTEX: (C) English</b> <ul style="list-style-type: none"> <li>Marine forecasts for areas 215, 217 to 222, 301 to 304.</li> </ul> <b>Note:</b> Marine forecasts are replaced by ice information during ice season only.
0035	490F1B	<b>NAVTEX: (D) French</b> <ul style="list-style-type: none"> <li>Marine forecasts for areas 215, 217 to 222, 301 to 304.</li> </ul> <b>Note:</b> Marine forecasts are replaced by ice information during ice season only.
0420	518F1B	<b>NAVTEX: (C) English</b> <ul style="list-style-type: none"> <li>Notices to Shipping.</li> </ul>
0435	490F1B	<b>NAVTEX: (D) French</b> <ul style="list-style-type: none"> <li>Notices to Shipping.</li> </ul>

0437	2749J3E 2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis and forecast for marine areas 215 to 221, 301 and 302.</li> <li>• Wave height forecasts for marine areas 215, 217, 219, 220, 221, 301 and 302.</li> <li>• Notice to Fish Harvesters (when available).</li> </ul>
0820	518F1B	<b>NAVTEX: (C) English</b> <ul style="list-style-type: none"> <li>• Marine forecasts for marine areas 215, 217 to 222, 301 to 304.</li> </ul>
0835	490F1B	<b>NAVTEX: (D) French</b> <ul style="list-style-type: none"> <li>• Weather forecasts for marine area: 215, 217 to 222, 301 to 304.</li> </ul>
0847	2598J3E 2749J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis and forecast for marine areas 215 to 221, 301 and 302.</li> <li>• Wave height forecasts for marine areas 215, 217, 219, 220, 221, 301 and 302.</li> </ul>
0937	2749J3E 2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Notices to Shipping.</li> <li>• Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.</li> <li>• Notice to Fish Harvesters (when available).</li> <li>• Ice Information.</li> </ul>
1220	518F1B	<b>NAVTEX: (C) English</b> <ul style="list-style-type: none"> <li>• Weather forecasts for marine areas 215, 217 to 222, 301 to 304</li> </ul>
1235	490F1B	<b>NAVTEX: (D) French</b> <ul style="list-style-type: none"> <li>• Weather forecasts for marine areas 215, 217 to 222, 301 to 304</li> </ul>
1407	2749J3E 2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis and forecast for marine areas 215 to 221, 301 and 302.</li> <li>• Wave height forecast for marine areas 215, 217, 219, 220, 221, 301 and 302.</li> </ul>
1620	518F1B	<b>NAVTEX: (C) English</b> <ul style="list-style-type: none"> <li>• Notices to Shipping.</li> </ul>
1635	490F1B	<b>NAVTEX: (D) French</b> <ul style="list-style-type: none"> <li>• Notices to Shipping.</li> </ul>
1737	2598J3E 2749J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Notices to Fish Harvesters when available.</li> <li>• Ice reports.</li> <li>• Notices to Shipping.</li> <li>• Notices to Shipping revising the position of every reported offshore exploration and operation vessel.</li> </ul>
2020	518F1B	<b>NAVTEX: (C) English</b> <ul style="list-style-type: none"> <li>• Marine forecasts for marine areas 215, 217 to 222, 301 to 304.</li> </ul>
2035	490F1B	<b>NAVTEX: (D) French</b> <ul style="list-style-type: none"> <li>• Marine forecasts for marine areas 215, 217 to 222, 301 to 304.</li> </ul>
2317	2598J3E 2749J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis and forecasts for marine areas 215 to 221, 301 and 302.</li> <li>• Wave height forecast for marine areas 215, 217, 219, 220, 221, 301 and 302.</li> <li>• Notice to Fish Harvesters (when available).</li> </ul>

Continuous	<p>Ch21B Forillon Carleton Natashquan Cap-aux-Meules</p> <p>Ch25B Pointe Heath Harrington Harbour</p> <p>Ch83B Newport Havre St-Pierre La Romaine</p>	<p><b>RADIOTELEPHONY:</b></p> <ul style="list-style-type: none"> <li>• Forecasts for marine areas 215, 216, 217, 218, 219, 220, 221, 301 and 302.</li> <li>• Notices to Shipping for the Gulf of St Lawrence including the Magdalene Islands, the coast between Sept-Iles and Blanc Sablon, the southern shore of 66W eastward including the Baie des Chaleurs up to Miramichi beach.</li> <li>• Ice Reports.</li> <li>• Notices to Fish Harvesters (when available).</li> <li>• Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.</li> <li>• Wave height forecasts for marine areas 215, 217, 219, 220, 221, 301 and 302.</li> </ul>
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Hourly weather observations for specific locations, technical marine synopsis, ➡ other weather forecast areas and MAFOR are available upon request

## SAINT JOHN, NEW BRUNSWICK

### Marine Communications and Traffic Services Centre

**MMSI: 003160015****Call Sign: VAR****Hours: H24****For Radio Services call Fundy Coast Guard Radio.****For Vessel Traffic Services call Fundy Traffic – refer to section 3.****Radio services in English and in French.**

**Mailing Address:** Fisheries and Oceans Canada  
Canadian Coast Guard  
Officer-in-Charge – MCTS Operations  
Saint John MCTS Centre  
P.O. Box 700  
SAINT JOHN, NB E2L 4B3

**Telephone Numbers:**   **506-636-4696**       **MCTS Operations**  
                                  **1-888-528-6444**       **MCTS Operations, Toll Free**

506-636-4269       Officer-in-Charge

**Facsimile:**               506-636-5000

**Email:**                   ➡ [xmarmctssj@dfo-mpo.gc.ca](mailto:xmarmctssj@dfo-mpo.gc.ca)  
                                  [hlxecaregl@innav.gc.ca](mailto:hlxecaregl@innav.gc.ca)

ECAREG Canada

#### ● Saint John MCTS Centre VHF/DF Advisory Service:

A VHF/DF Advisory Service is available to vessels in difficulty within range of the receiver sites located at Cape Blomidon, Saint John, Tiverton, Yarmouth and Lockeport. Information concerning position, bearing and distance may be provided for use at the discretion of the user.

#### MCTS Saint John / VAR Ship/Shore Communications

COMMUNICATION SITES LOCATED AT:	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
Yarmouth, NS ● 43°44'39"N 66°07'21"W ➡(Chebogue)	➡Ch14 Ch16 Ch24 ★ Ch26 ★ Ch70			
		2182J3E 2538J3E 2582J3E		
Lockeport, NS ● 43°39'49"N 65°07'47"W	Ch16 Ch24 ★ Ch26 ★ Ch70			
			2182 2142 ★ 2206 ★	

Saint John, NB ● 45°14'01"N 65°59'05"W ➡(Red Head)	<b>Ch12</b> <b>Ch14</b> <b>Ch16</b> Ch24 * <b>Ch26 *</b> <b>Ch70</b> Ch71			
Cape Blomidon, NS ● 45°13'55"N 64°24'05"W	<b>Ch16</b> Ch24 * <b>Ch26 *</b> <b>Ch70</b> <b>Ch71</b>			
Grand Manan, NB 44°36'03"N 66°54'22"W	<b>Ch14</b> <b>Ch16</b> Ch24 * <b>Ch26 *</b> <b>Ch70</b>			
Scotch Mountain, NB (NAD 27) 45°45'48"N 65°47'36"W	<b>Ch16</b> <b>Ch27 *</b> <b>Ch70</b>			Operational approximately mid-June to mid-October
Letite, NB 45°02'20"N 66°53'33"W	<b>Ch14</b>			
Tiverton, NS ● 44°23'40"N 66°13'36"W	<b>Ch12</b> <b>Ch14</b> <b>Ch16</b> <b>Ch70</b>			

**MCTS Saint John / VAR Broadcasts**

TIME UTC	FREQUENCY	CONTENTS
0140	2749J3E Ch21B Lockeport Saint John  Ch83B Yarmouth Cape Blomidon	<b>RADIOTELEPHONY: (English followed by French)</b> <ul style="list-style-type: none"> <li>Technical marine synopsis, forecasts and wave height forecasts for marine areas 201, 202, 203, 204, 205, 206, 207 and 208.</li> <li>➡U.S. weather forecasts for Coastal Waters - Eastport to Schoodic Point, Maine and Offshore Waters - Gulf of Maine to the Hague Line.</li> <li>Notices to Shipping in areas Bay of Fundy, South and West Coast Nova Scotia.</li> </ul>
0320	518F1B	<b>NAVTEX: (U) (English)</b> <ul style="list-style-type: none"> <li>Notices to Shipping.</li> </ul>
0335	490F1B	<b>NAVTEX: (V) (French)</b> <ul style="list-style-type: none"> <li>Notices to Shipping.</li> </ul>
0720	518F1B	<b>NAVTEX: (U) (English)</b> <ul style="list-style-type: none"> <li>➡Weather and wave height forecasts for marine areas 201, 202, 203, 204, 205, 206, 207 and 208.</li> <li>➡U.S. weather forecast for Coastal Waters - Eastport to Schoodic Point, Maine.</li> </ul>

0735	490F1B	<b>NAVTEX: (V) (French)</b> <ul style="list-style-type: none"> <li>➡Weather and wave height forecasts for marine areas 201, 202, 203, 204, 205, 206, 207 and 208.</li> </ul>
1040	2749J3E	<b>RADIOTELEPHONY: (English followed by French)</b> <ul style="list-style-type: none"> <li>Technical marine synopsis, forecasts and wave height forecasts for marine areas 201, 202, 203, 204, 205, 206, 207 and 208.</li> <li>➡U.S. weather forecasts for Coastal Waters - Eastport to Schoodic Point, Maine and Offshore Waters - Gulf of Maine to the Hague Line.</li> <li>Notices to Fish Harvesters (when available).</li> </ul>
1120	518F1B	<b>NAVTEX: (U) (English)</b> <ul style="list-style-type: none"> <li>➡Weather and seastate forecasts for marine areas 201, 202, 203, 204, 205, 206, 207 and 208.</li> <li>➡U.S. weather forecast for Coastal Waters - Eastport to Schoodic Point, Maine.</li> </ul>
1135	490F1B	<b>NAVTEX: (V) (French)</b> <ul style="list-style-type: none"> <li>➡Weather and seastate forecasts for marine areas 201, 202, 203, 204, 205, 206, 207 and 208.</li> </ul>
1240	Ch21B Lockeport Saint John  Ch83B Yarmouth Cape Blomidon	<b>RADIOTELEPHONY: (English followed by French)</b> <ul style="list-style-type: none"> <li>Notices to Shipping in areas Bay of Fundy, South and West Coast Nova Scotia.</li> </ul>
1520	518F1B	<b>NAVTEX: (U) (English)</b> <ul style="list-style-type: none"> <li>Notices to Shipping.</li> </ul>
1535	490F1B	<b>NAVTEX: (V) (French)</b> <ul style="list-style-type: none"> <li>Notices to Shipping.</li> </ul>
1640	2749J3E Ch83B Yarmouth Cape Blomidon  Ch21B Lockeport Saint John	<b>RADIOTELEPHONY: (English followed by French)</b> <ul style="list-style-type: none"> <li>Technical marine synopsis, forecasts and wave height forecasts for marine areas 201, 202, 203, 204, 205, 206, 207 and 208.</li> <li>➡U.S. weather forecasts for Coastal Waters - Eastport to Schoodic Point, Maine and Offshore Waters - Gulf of Maine to the Hague Line.</li> <li>Notices to Shipping for areas Bay of Fundy, South and West Coast Nova Scotia.</li> </ul>
1920	518F1B	<b>NAVTEX: (U) (English)</b> <ul style="list-style-type: none"> <li>➡Weather and seastate forecasts for marine areas 201, 202, 203, 204, 205, 206, 207 and 208.</li> <li>➡U.S. weather forecast for Coastal Waters - Eastport to Schoodic Point, Maine.</li> </ul>
1935	490F1B	<b>NAVTEX: (V) (French)</b> <ul style="list-style-type: none"> <li>➡Weather and seastate forecasts for marine areas 201, 202, 203, 204, 205, 206, 207 and 208.</li> </ul>
2040	2749J3E	<b>RADIOTELEPHONY: (English followed by French)</b> <ul style="list-style-type: none"> <li>Technical marine synopsis, forecasts and wave height forecasts for marine areas 201, 202, 203, 204, 205, 206, 207 and 208.</li> <li>➡U.S. weather forecasts for Coastal Waters - Eastport to Schoodic Point, Maine and Offshore Waters - Gulf of Maine to the Hague Line.</li> <li>Notices to Fish Harvesters (when available).</li> </ul>



2320	518F1B	<b>NAVTEX: (U) (English)</b> <ul style="list-style-type: none"> <li>➡ Weather and seastate forecasts for marine areas 201, 202, 203, 204, 205, 206, 207 and 208.</li> <li>➡ U.S. weather forecast for Coastal Waters - Eastport to Schoodic Point, Maine.</li> </ul>
2335	490F1B	<b>NAVTEX: (V) (French)</b> <ul style="list-style-type: none"> <li>➡ Weather and seastate forecasts for marine areas 201, 202, 203, 204, 205, 206, 207 and 208.</li> </ul>
Continuous	Ch21B Lockeport Saint John  Ch83B Yarmouth Cape Blomidon	<b>RADIOTELEPHONY: (English followed by French)</b> <ul style="list-style-type: none"> <li>Technical marine synopsis, forecasts and wave height forecasts for marine areas 201, 202, 203, 204, 205, 206, 207 and 208.</li> <li>➡ U.S. weather forecasts for Coastal Waters - Eastport to Schoodic Point, Maine and Offshore Waters - Gulf of Maine to the Hague Line.</li> <li>Notices to Fish Harvesters (when available).</li> </ul>

**Note:** The Continuous Marine Broadcast is interrupted three times daily (0140, 1240 and 1640) for Notice to Shipping Broadcasts

## SARNIA, ONTARIO

### Marine Communications and Traffic Services Centre

**MMSI: 003160030****Call Sign: VBE****Hours: H24****For Radio Services call Sarnia Coast Guard Radio.****For Vessel Traffic Services call Sarnia Traffic – refer to section 3.****Services in English only.**

**Mailing Address:** Fisheries and Oceans Canada  
Canadian Coast Guard  
Officer-in-Charge - MCTS Operations  
Sarnia MCTS Centre  
P.O. Box 2778  
SARNIA, ON N7T 7W1

**Telephone Numbers:**    **519-336-4003**                      **MCTS Operations**

519-337-6572                      Officer-in-Charge

**Facsimile:**                      519-336-0229

**Public correspondence services are no longer available.**

#### **MCTS Sarnia / VBE – Ship/Shore Communications**

COMMUNICATIONS SITES LOCATED AT:	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
Sarnia 43°01'41"N 82°11'09"W	Ch11 Ch16 Ch24 Ch70 Ch85			
Kincardine 44°07'01"N 81°41'24"W	Ch11 Ch16 Ch27 Ch70 Ch85			
Leamington 42°04'10"N 82°39'58"W	Ch12 Ch16 Ch27 Ch70 Ch85			
Port Burwell 42°34'58"N 80°36'13"W	Ch12 Ch16 Ch24 Ch70 Ch85			

Grande Pointe 42°23'26"N 82°24'17"W	<b>Ch11</b> <b>Ch12</b> <b>Ch16</b> <b>Ch70</b> <b>Ch85</b>			
Rondeau 42°25'22"N 81°50'40"W	<b>Ch12</b> <b>Ch16</b> <b>Ch70</b> <b>Ch85</b>			

**MCTS Sarnia / VBE – Broadcasts**

<b>TIME UTC</b>	<b>FREQUENCY</b>	<b>CONTENTS</b>
Continuous <b>(CMB NORTH)</b>	Ch21B Sarnia  Ch83B Kincardine	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Localized Weather Warnings/Watches, Marine Weather Statements, Technical Marine Synopsis, Regular Marine Forecasts, MAFOR code, Wave Height Forecast and Extended Marine Forecasts for Lakes Huron, St. Clair and Erie (Areas 403, 404 and 405).</li> <li>Notices to Shipping Lake Huron South of 45 10N, St. Clair River, Lake St. Clair and Detroit River.</li> <li>Water Levels for Lake Huron, Lake St. Clair and Lake Erie.</li> <li>Ice hazard bulletin for Lakes Erie, St. Clair and Huron.</li> </ul>
Continuous <b>(CMB SOUTH)</b>	Ch21B Port Burwell  Ch83B Leamington	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Localized Weather Warnings/Watches, Marine Weather Statements, Technical Marine Synopsis, Regular Marine Forecasts, MAFOR code, Wave Height Forecast and Extended Marine Forecasts for Lakes Huron, St. Clair and Erie (Areas 403, 404 and 405).</li> <li>Notices to Shipping in St. Clair River, Lake St. Clair, Detroit River and Lake Erie West of 79 40W.</li> <li>Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.</li> <li>Water Levels for Lake Huron, Lake St. Clair and Lake Erie.</li> <li>Ice hazard bulletin for Lakes Erie, St. Clair and Huron.</li> </ul>

## ST. ANTHONY, NEWFOUNDLAND AND LABRADOR Marine Communications and Traffic Services Centre

**MMSI: 003160021****Call Sign: VCM****Hours: H24****For Radio Services call St. Anthony Coast Guard Radio.****For Vessel Traffic Services call Belle Isle Traffic (voluntary) – refer to section 3.****Services in English only.**

**Mailing Address:** Fisheries and Oceans Canada  
Canadian Coast Guard  
Officer-in-Charge – MCTS Operations  
St. Anthony MCTS Centre  
P.O. Box 693  
ST. ANTHONY, NL A0K 4S0

**Telephone Numbers: 709-454-3852 MCTS Operations**

709-454-3523 Officer-in-Charge

**Facsimile:** 709-454-3716**Email:** [ECASNY@INNAV.GC.CA](mailto:ECASNY@INNAV.GC.CA)

◆ **St. Anthony MCTS Centre VHF/DF Advisory Service:**

A VHF/DF Advisory Service is available to vessels in difficulty within range of the Twillingate VHF peripheral site controlled by St. Anthony MCTS Centre. Bearing in formation to/from Twillingate can be provided for use at the discretion of the user.

**MCTS St. Anthony / VCM – Ship/Shore Communications**

COMMUNICATION SITES LOCATED AT:	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
St. Anthony 51°30'00"N 55°49'26"W		2182J3E 2514J3E 2582J3E	<b>2182</b> 2118 * 2206 *	
Comfort Cove 49°16'26"N 54°52'32"W	<b>Ch16</b> <b>Ch26 *</b> <b>Ch70</b>			
Twillingate ◆ 49°41'10"N 54°48'00"W	<b>Ch16</b> <b>Ch24 *</b> <b>Ch70</b>			
L'Anse aux Meadows 51°34'20"N 55°29'27"W	<b>Ch14</b> <b>Ch16</b> <b>Ch24 *</b> <b>Ch70</b>			

Conche 50°53'41"N 55°53'03"W	<b>Ch16</b> <b>Ch26 *</b> <b>Ch70</b>			
Fox Harbour (Labrador) 52°22'10"N 55°39'42"W	<b>Ch16</b> <b>Ch26 *</b> <b>Ch70</b>			

**MCTS St. Anthony / VCM – VCM Broadcasts**

TIME UTC	FREQUENCY	CONTENTS								
0107	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"><li>Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222, 223, 224, 226, 227, 235, 237 and 238.</li><li>Ice conditions and forecast for the East Coast of Newfoundland, and the Labrador Coast, south of 54N.</li><li>Iceberg Bulletin - Newfoundland Coast and Strait of Belle Isle.</li></ul>								
0907	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"><li>Technical marine synopsis and forecasts for marine areas 220, 221, 222, 223, 224, 226, 227, 235, 237 and 238.</li><li>Ice conditions and forecast for the East Coast of Newfoundland and the Labrador Coast, south of 54N.</li><li>Iceberg Bulletin - Newfoundland East Coast and Strait of Belle Isle.</li></ul>								
1237	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"><li>Notices to Shipping for an area bounded by Flower's Cove to the west, Cartwright to the north and Cape Freels to the southeast.</li><li>Notices to Fish Harvesters (when available).</li></ul>								
1337	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"><li>Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222, 223, 224, 226, 227, 235, 237 and 238.</li></ul>								
1907	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"><li>Notices to Shipping for an area bounded by Flower's Cove to the west, Cartwright to the north and Cape Freels to the southeast.</li><li>Ice conditions and forecast for the East Coast of Newfoundland, and the Labrador Coast, south of 54N.</li><li>Iceberg Bulletin – Newfoundland East Coast and Strait of Belle Isle.</li><li>Notices to Fish Harvesters (when available).</li></ul>								
1937	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"><li>Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222, 223, 224, 226, 227, 235, 237 and 238.</li></ul>								
Continuous	Ch21B Conche Fox Harbour Comfort Cove  Ch83B L'Anse aux Meadows Twillingate	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"><li>Technical marine synopsis, forecasts and wave height forecasts for marine areas 220, 221, 222, 223, 224, 226, 227, 235, 237 and 238.</li><li><b>Actual weather observations (when available) for the following sites:</b><table><tr><td>1. St. Anthony Airport</td><td>5. Mary's Harbour</td></tr><tr><td>2. Englee</td><td>6. Twillingate</td></tr><tr><td>3. La Scie</td><td>7. Pool's Island</td></tr><tr><td>4. Blanc Sablon</td><td>8. St. Anthony's Harbour</td></tr></table></li><li>Notices to Shipping for an area bounded by Flower's Cove to the west, Cartwright to the north and Cape Freels to the southeast.</li><li>Ice conditions and forecast for the East Coast of Newfoundland, and the Labrador Coast, south of 54N.</li><li>Iceberg Bulletin - Newfoundland East Coast and Strait of Belle Isle.</li><li>Notices to Fish Harvesters (when available).</li></ul>	1. St. Anthony Airport	5. Mary's Harbour	2. Englee	6. Twillingate	3. La Scie	7. Pool's Island	4. Blanc Sablon	8. St. Anthony's Harbour
1. St. Anthony Airport	5. Mary's Harbour									
2. Englee	6. Twillingate									
3. La Scie	7. Pool's Island									
4. Blanc Sablon	8. St. Anthony's Harbour									

## ST. JOHN'S, NEWFOUNDLAND AND LABRADOR Marine Communications and Traffic Services Centre

**MMSI: 003160020****Call Sign: VON****Hours: H24****For Radio Services call St. John's Coast Guard Radio.****For Vessel Traffic Services call St. John's Traffic – refer to section 3.****Services in English only.**

**Mailing Address:** Fisheries and Oceans Canada  
Canadian Coast Guard  
Officer-in-Charge – MCTS Operations  
St. John's MCTS Centre  
P.O. Box 5667  
ST. JOHN'S, NL A1C 5X1

**Telephone Numbers:** **709-772-2106/2083**      **MCTS Operations**

709-772-5149      Officer-in-Charge

709-772-3366      ECAREG

**Facsimile:** 709-772-5369

**Email:** [ECAREGSNF@INNAV.GC.CA](mailto:ECAREGSNF@INNAV.GC.CA)

### MCTS St. John's / VON – Ship/Shore Communications

COMMUNICATION SITES LOCATED AT:	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
St. John's 47°36'40"N 52°40'01"W	Ch11 Ch12 Ch16 Ch26 * Ch70			
		2182J3E 2514J3E 2582J3E	2182 2118 * 2206 *	
Cape Bonavista 48°41'48"N 53°05'18"W	Ch16 Ch26 * Ch70			
Victoria 47°49'54"N 53°18'05"W	Ch16 Ch24 * Ch70			
Lumsden 49°17'14"N 53°35'05"W	Ch16 Ch26 * Ch70			

**MCTS St. John's / VON – Broadcasts**

TIME UTC	FREQUENCY	CONTENTS
0007	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Technical marine synopsis, forecasts and wave height forecasts for marine areas 232, 233, 234, 235, 236, 237 and 238.</li> <li>Ice Edge and Conditions East Newfoundland Coast south of Strait of Belle Isle and approaches.</li> </ul>
0220	518F1B	<b>NAVTEX: (O)</b> <ul style="list-style-type: none"> <li>Weather.</li> </ul>
0620	518F1B	<b>NAVTEX: (O)</b> <ul style="list-style-type: none"> <li>Weather (Notices to Shipping only in winter).</li> </ul>
0837	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Technical marine synopsis and forecasts for marine areas 232, 233, 234, 235, 236, 237 and 238.</li> <li>Ice Edge and Conditions East Newfoundland Coast south of Strait of Belle Isle and approaches.</li> <li>Notices to Fish Harvesters (when available).</li> </ul>
1020	518F1B	<b>NAVTEX: (O)</b> <ul style="list-style-type: none"> <li>Weather (Notices to Shipping only in summer).</li> </ul>
1307	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Notice to Shipping: <ul style="list-style-type: none"> <li>Nearshore - Cape Pine to Twillingate.</li> <li>Offshore - North Atlantic to Cape Bauld.</li> </ul> </li> <li>Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.</li> </ul>
1420	518F1B	<b>NAVTEX: (O)</b> <ul style="list-style-type: none"> <li>Weather.</li> </ul>
1637	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Technical marine synopsis, forecasts and wave height forecasts for marine areas 232, 233, 234, 235, 236, 237 and 238.</li> <li>Ice Edge and Conditions East Newfoundland Coast south of Strait of Belle Isle and approaches.</li> </ul>
1820	518F1B	<b>NAVTEX: (O)</b> <ul style="list-style-type: none"> <li>Weather and wave height forecasts (summer) Ice (winter).</li> </ul>
2007	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Technical marine synopsis and forecasts for marine areas 232, 233, 234, 235, 236, 237 and 238.</li> <li>Ice Edge and Conditions East Newfoundland Coast south of Strait of Belle Isle and approaches.</li> </ul>
2207	2598J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Notices to Shipping: <ul style="list-style-type: none"> <li>Nearshore - Cape Pine to Twillingate.</li> <li>Offshore - North Atlantic to Cape Bauld.</li> </ul> </li> <li>Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.</li> <li>Notices to Fish Harvesters (when available).</li> </ul>
2220	518F1B	<b>NAVTEX: (O)</b> <ul style="list-style-type: none"> <li>Weather (winter) Notices to Shipping/Ice (summer).</li> </ul>

Continuous	Ch21B St. John's Cape Bonavista	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"><li>• Technical marine synopsis, forecasts and wave height forecasts for marine areas 232, 233, 234, 235, 236, 237 and 238.</li><li>• <b>Actual weather observations (when available) for the following sites:</b><table><tr><td>1. Pool's Island</td><td>4. St. John's</td></tr><tr><td>2. Bonavista</td><td>5. Cape Race</td></tr><tr><td>3. Grates Cove</td><td>6. Argentia</td></tr></table></li><li>• Ice Edge and Conditions East Newfoundland Coast south of Strait of Belle Isle and approaches.</li><li>• Notices to Shipping Cape Pine to Twillingate.</li><li>• Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.</li><li>• Notices to Fish Harvesters (when available).</li></ul>	1. Pool's Island	4. St. John's	2. Bonavista	5. Cape Race	3. Grates Cove	6. Argentia
	1. Pool's Island		4. St. John's					
	2. Bonavista		5. Cape Race					
	3. Grates Cove		6. Argentia					
Ch83B Victoria								
Ch28B Lumsden								



## SYDNEY, NOVA SCOTIA

### Marine Communications and Traffic Services Centre

**MMSI: 003160017****Call Sign: VCO****Hours: H24****For Radio Services call Sydney Coast Guard Radio.****For Vessel Traffic Services call Canso Traffic – refer to section 3.****For Vessel Traffic Services call Northumberland Traffic – refer to section 3.****Radio services in English and in French.**

**Mailing Address:** Fisheries and Oceans Canada  
Canadian Coast Guard  
Officer-in-Charge – MCTS Operations  
Sydney MCTS Centre  
1190 Westmount Road  
SYDNEY, NS B1R 2J6

**Telephone Numbers:** 902-564-7751 MCTS Operations  
1-800-686-8676 MCTS Operations Toll Free

902-564-7752 Officer-in-Charge

**Facsimile:** 902-564-7662

**Email:** ➡ [mctssyd@df-mpo.gc.ca](mailto:mctssyd@df-mpo.gc.ca)  
[hlxecareg1@innav.gc.ca](mailto:hlxecareg1@innav.gc.ca)

ECAREG Canada

#### ◆ Sydney MCTS Centre VHF/DF Advisory Service:

A VHF/DF Advisory Service is available to vessels in difficulty within range of the receiver sites located at Port Caledonia, Cape North, Montague, North Cape and Cape Egmont. Information concerning position, bearing and distance may be provided for use at the discretion of the user.

#### MCTS Sydney / VCO – Ship/Shore Communications

COMMUNICATION SITES LOCATED AT:	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
Port Caledonia ● 46°11'14"N 59°53'59"W	Ch16 Ch24 ★ Ch26 ★ Ch70			
		2182J3E 2530J3E 2582J3E		
Cape North ● 47°00'38"N 60°25'41"W	Ch16 Ch24 ★ Ch26 ★ Ch70			

Kilkenny Lake 46°13'29"N 60°10'06"W	<b>Ch16</b> Ch24 ★ <b>Ch26</b> ★ <b>Ch70</b>			
			<b>2182</b> 2815 ★ 2206 ★	
St. Columba 45°59'17"N 60°51'36"W	<b>Ch16</b> Ch24 ★ <b>Ch26</b> ★ <b>Ch70</b>			
Cheticamp (NAD 27) 46°34'39"N 60°59'10"W	<b>Ch16</b> <b>Ch26</b> ★ <b>Ch70</b>			
Montague, PEI ● 46°11'40"N 62°39'35"W	<b>Ch16</b> Ch24 ★ <b>Ch26</b> ★ <b>Ch70</b>			
Cape Egmont, PEI ● 46°24'08"N 64°08'02"W	Ch12 <b>Ch16</b> Ch24 ★ <b>Ch26</b> ★ <b>Ch70</b>			
Point Escuminac, NB 47°04'25"N 64°47'53"W	<b>Ch16</b> <b>Ch26</b> ★ Ch24 ★ <b>Ch70</b>			
North Cape, PEI ● 47°03'27"N 63°59'55"W	<b>Ch16</b> Ch24 ★ <b>Ch26</b> ★ <b>Ch70</b>			
Eddy Point 45°30'52"N 61°15'15"W	Ch06 Ch11 <b>Ch14</b>			

**MCTS Sydney / VCO – Broadcasts**

TIME UTC	FREQUENCY	CONTENTS
0040	2749J3E Ch21B Port Caledonia Point Escuminac Montague  Ch83B Cape North Cape Egmont	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>• Technical marine synopsis and forecasts for marine areas: 209, 213, 214, 215, 216, 217, 218, 231 and 232.</li> <li>• Wave height forecast for marine areas 209, 213, 214, 215 and 217.</li> <li>• Notices to Shipping in areas Cape Breton Shore (covering Cabot Strait to Banquereau Bank), Gulf of St. Lawrence, Newfoundland South Coast, P.E.I. and Miramichi Bay.</li> <li>• Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.</li> </ul>
0240	518F1B	<b>NAVTEX (Q) (English):</b> <ul style="list-style-type: none"> <li>• Notices to Shipping.</li> </ul>

0255	490F1B	<b>NAVTEX: (J) (French)</b> <ul style="list-style-type: none"><li>• Notices to Shipping.</li></ul>
0640	518F1B	<b>NAVTEX: (Q) (English)</b> <ul style="list-style-type: none"><li>• Marine forecast.</li></ul>
0655	490F1B	<b>NAVTEX: (J) (French)</b> <ul style="list-style-type: none"><li>• Weather.</li></ul>
0740	2749J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"><li>• Technical marine synopsis and forecasts for marine areas: 209, 213, 214, 215, 216, 217, 218, 231 and 232.</li><li>• Wave height forecast for marine areas 209, 213, 214, 215 and 217.</li><li>• Notices to Fish Harvesters (when available).</li></ul>
1010	Ch21B Port Caledonia Point Escuminac Montague Ch83B Cape North Cape Egmont	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"><li>• Notices to Shipping in areas Cape Breton Shore (covering Cabot Strait to Banquereau Bank), Gulf of St. Lawrence, Newfoundland South Coast, P.E.I. and Miramichi Bay.</li><li>• Notices to Shipping revising the position of every reported offshore exploration and exploitation vessel.</li></ul>
1040	518F1B	<b>NAVTEX: (Q) (English)</b> <ul style="list-style-type: none"><li>• Weather.</li></ul>
1055	490F1B	<b>NAVTEX: (J) (French)</b> <ul style="list-style-type: none"><li>• Weather.</li></ul>
1121	6915.10J3C	<b>RADIOFACSIMILE – Ice Charts</b> <ul style="list-style-type: none"><li>• Ice Analysis Gulf of St. Lawrence.</li></ul>
1142	6915.10J3C	<b>RADIOFACSIMILE – Ice Charts</b> <ul style="list-style-type: none"><li>• Ice Analysis East or Southeast Newfoundland waters.</li></ul>
1440	2749J3E Ch21B Port Caledonia Point Escuminac Montague  Ch83B Cape North Cape Egmont	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"><li>• Technical marine synopsis and forecasts for marine areas: 209, 213, 214, 215, 216, 217, 218, 231 and 232.</li><li>• Wave height forecast for marine areas 209, 213, 214, 215 and 217.</li><li>• Notices to Shipping in areas Cape Breton Shore (covering Cabot Strait to Banquereau Bank), Gulf of St. Lawrence, Newfoundland South Coast, P.E.I. and Miramichi Bay.</li><li>• Notice to Shipping revising the position of every reported offshore exploration and exploitation vessel</li></ul>
1440	518F1B	<b>NAVTEX: (Q) (English)</b> <ul style="list-style-type: none"><li>• Notices to Shipping.</li></ul>
1455	490F1B	<b>NAVTEX: (J) (French)</b> <ul style="list-style-type: none"><li>• Notices to Shipping.</li></ul>
1741	6915.10J3C	<b>RADIOFACSIMILE – Ice Charts</b> <ul style="list-style-type: none"><li>• Ice Analysis Iceberg limit.</li></ul>
1840	518F1B	<b>NAVTEX: (Q) (English)</b> <ul style="list-style-type: none"><li>• Weather.</li></ul>
1855	490F1B	<b>NAVTEX: (J) (French)</b> <ul style="list-style-type: none"><li>• Weather.</li></ul>
2010	2749J3E	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"><li>• Technical marine synopsis and forecasts for marine areas: 209, 213, 214, 215, 216, 217, 218, 231 and 232.</li><li>• Wave height forecast for marine areas 209, 213, 214, 215 and 217.</li><li>• Notices to Fish Harvesters (when available).</li></ul>
2200	4416J3C	<b>RADIOFACSIMILE – Ice Charts</b> <ul style="list-style-type: none"><li>• Ice Analysis Gulf of St. Lawrence.</li></ul>

2240	518F1B	<b>NAVTEX: (Q) (English)</b> • Weather (Ice only in winter).
2255	490F1B	<b>NAVTEX: (J) (French)</b> • Weather (Ice only in winter).
2331	4416J3C	<b>RADIOFACSIMILE – Ice Charts</b> • Ice Analysis East or Southeast Newfoundland waters.
Continuous	Ch21B Port Caledonia Point Escuminac Montague Ch83B Cape North Cape Egmont	<b>RADIOTELEPHONY:</b> • Technical marine synopsis and forecasts for marine areas 209, 213, 214, 215, 216, 217, 218, 231 and 232. • Wave height forecast for marine areas 209, 213, 214, 215 and 217. • Notices to Fish Harvesters (when available). • Ice forecasts for P.E.I. fish harvesters.

**Note:** The Continuous Marine Broadcast is interrupted three times daily (0040, 1010 and 1440) for Notice to Shipping Broadcasts

## THUNDER BAY, ONTARIO

### Marine Communications and Traffic Services Centre

**MMSI: 003160031****Call Sign: VBA****Hours: H24**

**For Radio Service call Thunder Bay Coast Guard Radio.**  
**Services in English only.**

**Mailing Address:** Fisheries and Oceans Canada  
Canadian Coast Guard  
Officer-in-Charge – MCTS Operations  
Thunder Bay MCTS Centre  
Suite 400 – 100 Main Street  
THUNDER BAY, ON P7B 6R9

**Telephone Numbers:**     **807-345-5190**                      **MCTS Operations**

807-345-4618                      Officer in Charge

**Facsimile:**                      807-345-2688

◆ **Thunder Bay MCTS Centre VHF Direction Finding Advisory Service:**

A VHF/DF advisory service is available for vessels in difficulty in Georgian Bay within range of receiver sites located at Tobermory, Cape Croker, Banks and Pointe au Baril. Position and/or bearing and distance information may be provided for use at the discretion of the recipient.

**Public correspondence services are no longer available.**

**MCTS Thunder Bay / VBA – Ship/Shore Communications serving the Great Lakes**

COMMUNICATIONS SITES SERVING THE GREAT LAKES:	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
Thunder Bay 48°26'02"N 89°18'06"W	<b>Ch12</b> <b>Ch16</b> <b>Ch70</b> <b>Ch85</b>			Commercial vessels entering the Port of Thunder Bay are requested to contact Thunder Bay MCTS Centre on Ch12 when abeam of Welcome Islands and also when shifting berths or departing the harbour
Horn 48°49'06"N 87°21'12"W	<b>Ch16</b> <b>Ch24</b> <b>Ch70</b>			
Bald Head 47°39'37"N 84°47'39"W	<b>Ch16</b> <b>Ch27</b> <b>Ch70</b>			
Sault Ste. Marie (Gros Cap) 46°32'16"N 84°34'54"W	<b>Ch11</b> <b>Ch16</b> <b>Ch24</b> <b>Ch70</b>			

Silver Water, (Manitoulin Island) 45°54'03"N 82°54'50"W	<b>Ch11</b> <b>Ch16</b> <b>Ch27</b> <b>Ch70</b>			
Wiarton 44°44'50"N 81°06'44"W	<b>Ch16</b> <b>Ch26</b> <b>Ch70</b>			
Meaford 44°30'56"N 80°34'00"W	<b>Ch16</b> <b>Ch70</b> <b>Ch85</b>			
Tobermory ● 45°09'36"N 81°29'45"W	<b>Ch16</b> <b>Ch26</b> <b>Ch70</b>			
Killarney 45°58'05"N 81°29'22"W	<b>Ch16</b> <b>Ch24</b> <b>Ch70</b>			
Pointe au Baril ● 45°33'53"N 80°19'02"W	<b>Ch16</b> <b>Ch26</b> <b>Ch70</b>			

**MCTS Thunder Bay / VBA – Ship/Shore Communications serving Lake Winnipeg**

SITES SERVING LAKE WINNIPEG:	CHANNEL	TRANSMIT	RECEIVE	REMARKS
		FREQUENCIES	FREQUENCIES	
Beaver Creek 51°23'21"N 96°54'25"W	<b>Ch16</b> <b>Ch26</b>			Operational May 15 to October 31
Fraserwood 50°34'47"N 97°13'56"W	<b>Ch16</b> <b>Ch19</b>			Operational May 15 to October 31
Jackhead 51°53'20"N 97°19'01"W	<b>Ch16</b> <b>Ch26</b>			Operational May 15 to October 31
Long Point 52°55'33"N 98°58'10"W	<b>Ch16</b> <b>Ch26</b>			Operational May 15 to October 31

**MCTS Thunder Bay / VBA – Great Lakes Broadcasts**

TIME UTC	FREQUENCY	CONTENTS
0230	518F1B	<b>NAVTEX: (P)</b> • Weather.
0630	518F1B	<b>NAVTEX: (P)</b> • Notices to Shipping. • Ice (during ice season).
1030	518F1B	<b>NAVTEX: (P)</b> • Weather.
1430	518F1B	<b>NAVTEX: (P)</b> • Weather.
1830	518F1B	<b>NAVTEX: (P)</b> • Notices to Shipping. • Ice (during ice season).
2230	518F1B	<b>NAVTEX: (P)</b> • Weather.

Continuous (CMB WEST)	Ch21B Horn Sault Ste. Marie  Ch83B Thunder Bay Bald Head	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Localized Weather Warnings/Watches, Marine Weather Statements, Technical Marine Synopsis, Regular Marine Forecasts, MAFOR code, Wave Height Forecast and Extended Marine Forecasts for Lakes Superior and Huron, Georgian Bay (areas 405, 406, 407 and 408).</li> <li>Notices to Shipping for Lake Superior and the St. Mary's River.</li> <li>Water levels for Lakes Superior and Huron.</li> <li>Ice hazard bulletin for Lakes Superior and Huron.</li> </ul>
Continuous (CMB EAST)	Ch21B Tobermory Killarney Pointe au Baril  Ch83B Silver Water Meaford	<b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Localized Weather Warnings/Watches, Marine Weather Statements, Technical Marine Synopsis, Regular Marine Forecasts, MAFOR code, Wave Height Forecast and Extended Marine Forecasts for Lakes Superior and Huron, Georgian Bay (areas 405, 406, 407 and 408).</li> <li>➡Recreational boating forecast for the North Channel.</li> <li>Notices to Shipping for Lake Huron north of latitude 44 00N, Georgian Bay (including Port Severn Lock), the North Channel and the St. Mary's River.</li> <li>Water levels for Lakes Superior and Huron.</li> <li>Ice hazard bulletin for Lakes Superior and Huron.</li> </ul>

**MCTS Thunder Bay / VBA – Lake Winnipeg Broadcasts**

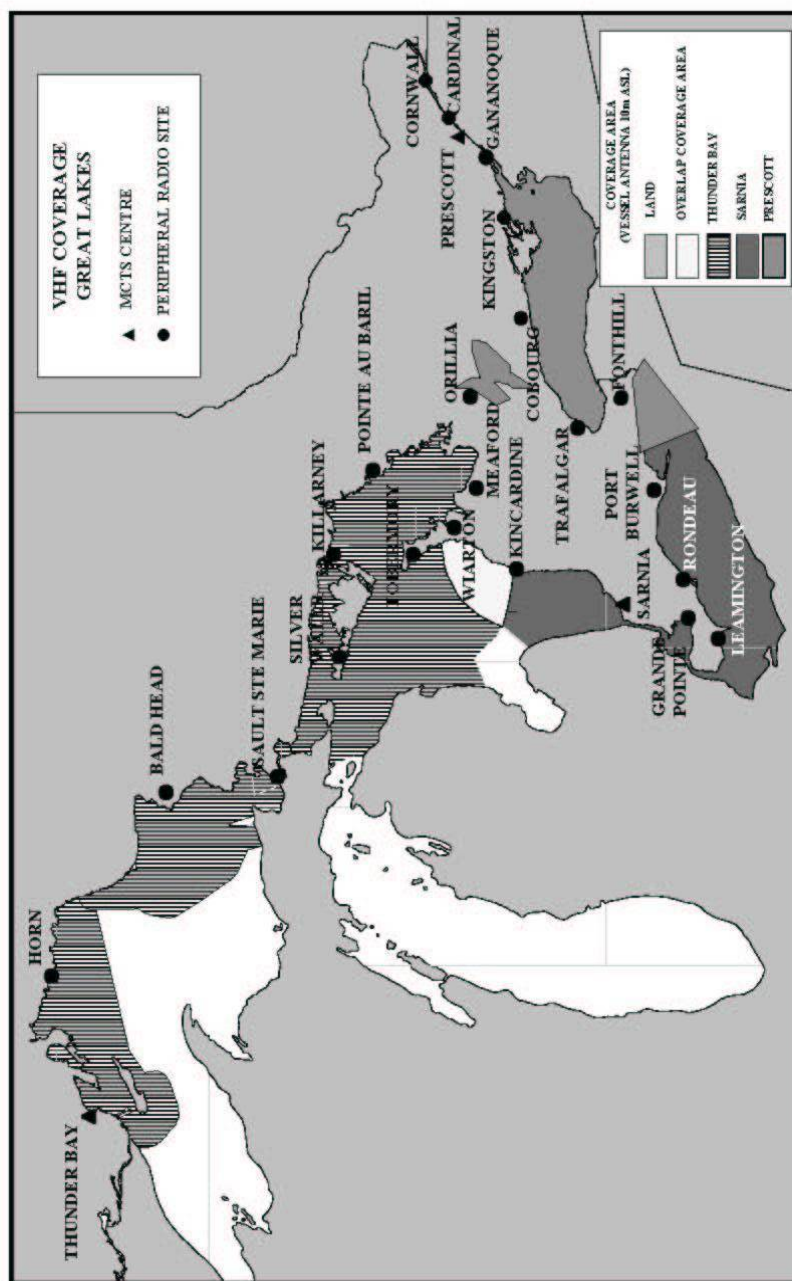
TIME UTC	FREQUENCY	CONTENTS
0140 0840 1240 1640 2140	Ch26 Jackhead Long Point Beaver Creek Ch19 Fraserwood	➡ <b>RADIOTELEPHONY:</b> <ul style="list-style-type: none"> <li>Localized Weather Warnings/Watches, Marine Weather Statements, Technical Marine Synopsis, Regular Marine Forecasts, MAFOR code, Wave Height Forecast and Extended Marine Forecasts for Lake Winnipeg.</li> <li>Notices to Shipping.</li> </ul>

CANAL AND LOCK OPERATIONS ATLANTIC COAST, GULF AND ST. LAWRENCE RIVER TO MONTRÉAL, EASTERN ARCTIC				
NAME COORDINATES CALL SIGN	CLASS OF SERVICE	CHANNEL	REMARKS	
<b>CANSO LOCK, NS</b> 45°38'04"N 61°24'30"W VAZ3	SC	16 11	Operated by Fisheries and Oceans Canada. Canal traffic only. Continuous during navigation season.	

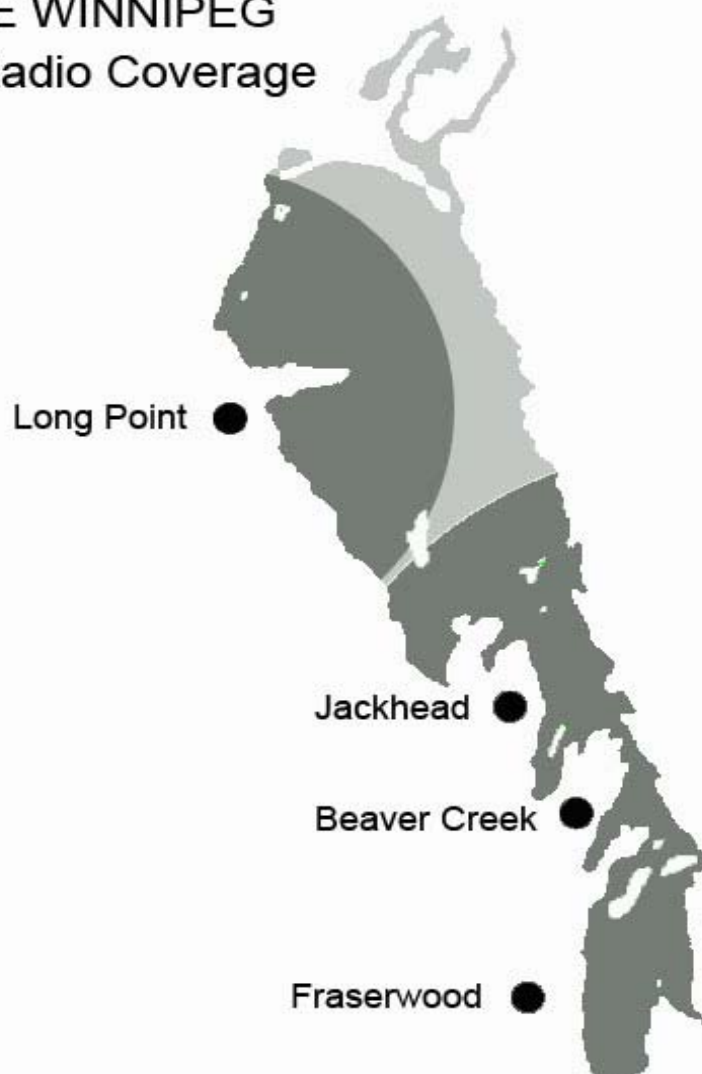
CANAL, PORT AND LOCK OPERATIONS GREAT LAKES (includes St. Lawrence River to Montréal)				
NAME COORDINATES CALL SIGN	CLASS OF SERVICE	CHANNEL	REMARKS	
<b>SEAWAY BEAUHARNOIS MELOCHEVILLE, QC</b> 45°18'15"N 73°55'42"W VDX20	SC	16 14	Operated by Seaway Authority. Ship traffic control only.	
<b>SEAWAY IROQUOIS IROQUOIS, ON</b> 44°49'50"N 75°18'46"W VDX21	SC	16 11	Operated by Seaway Authority. Ship traffic control only.	

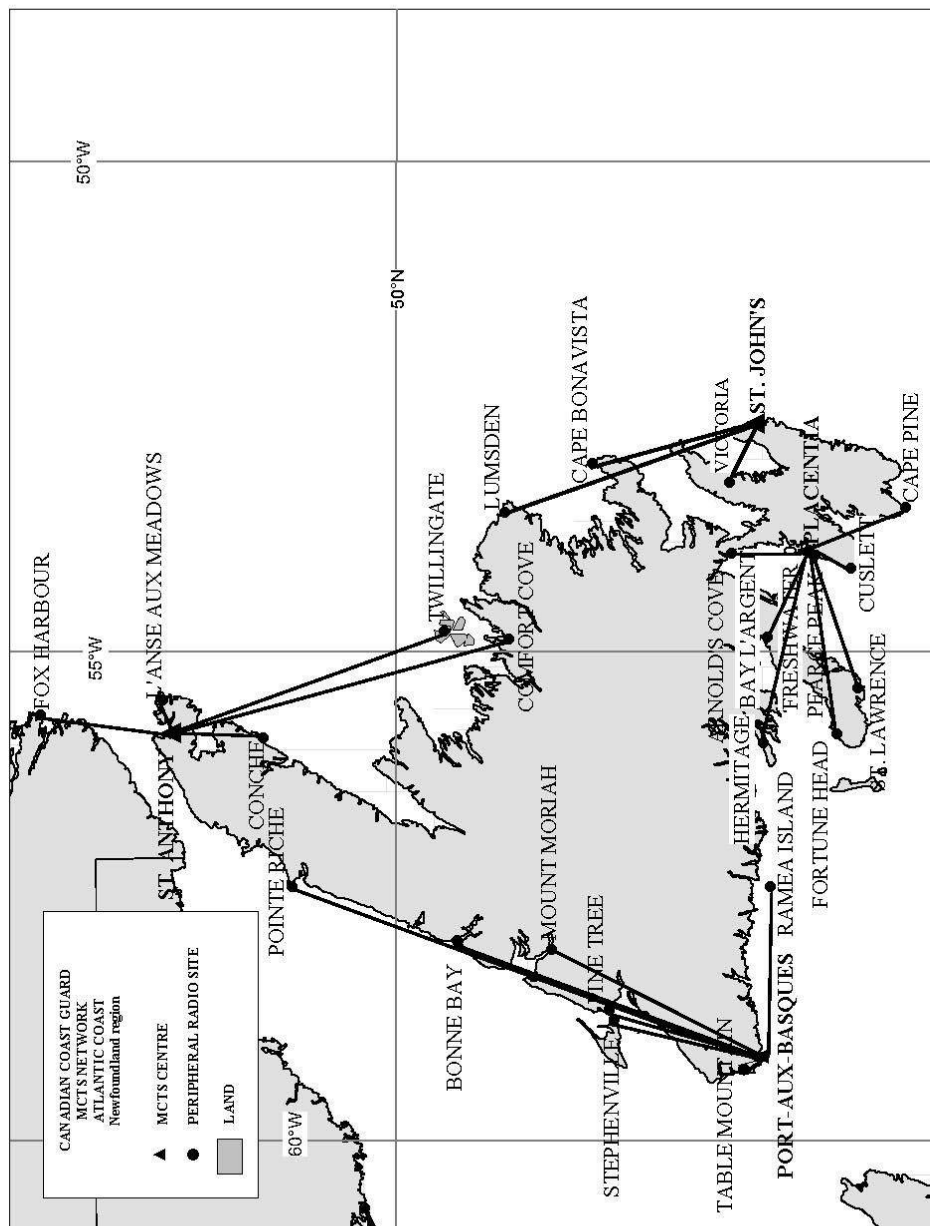
<b>SEAWAY NEWCASTLE PORT HOPE, ON</b> 43°57'38"N 78°16'04"W VDX72	SC	16 11	Operated by Seaway Authority. Ship Reports respecting dangers to navigation as required. Ship traffic control only.
<b>SEAWAY NEWCASTLE ST. CATHARINES, ON</b> 43°13'01"N 79°12'53"W VDX 70	SC	16 11	Operated by Seaway Authority. Ship Reports respecting dangers to navigation as required. Ship traffic control only.
<b>TORONTO, ON</b> 43°38'31"N 79°22'44"W XJF495		16 12 14	All vessels, excepting small craft, entering, leaving or changing berths within the port of Toronto are requested to contact the Toronto Harbour Communications Centre (call sign XJF 495) directly on VHF Ch12 between the hours of 0800 to 1600 Monday through Friday. At all other times initial calls to the Harbour authority should be made on Ch16. Station operated by the Toronto Harbour Commission for ship traffic control only.
<b>BURLINGTON CANAL BRIDGE, ON</b> 43°17'48"N 79°47'42"W XL146	SC	16 12	Operated by Department of Public Works. Ship traffic control only.
<b>HAMILTON, ON</b> 43°17'N 79°50'W XJF496		16 12	All vessels, excepting small craft, entering, leaving or intending to move within the harbour should contact the Hamilton Harbour Master directly on Ch12. Ship traffic control only.
<b>SEAWAY WELLAND ST. CATHARINES, ON</b> 43°49'20"N 79°11'45"W VDX 22	SC	16 14	Operated by Seaway Authority. Ship traffic control only.
<b>SEAWAY LONG POINT PORT COLBORNE, ON</b> 42°53'15"N 79°14'57"W VDX 68	SC	16 11	Operated by Seaway Authority. Ship traffic control only.
<b>WINDSOR, ON</b> 42°19'00"N 83°04'00"W XJP56		16 12 14	Operated by the Windsor Harbour Commission for ship traffic control only. Vessels should make initial calls directly on Ch14.
<b>SAULT STE. MARIE, ON CANAL LOCK</b> 46°30'48"N 84°21'03"W VDX23	SC	16 14	Operated by Parks Canada. This station is not continuously attended to enable it to receive communications from vessels. Vessels intending to enter the Canadian Sault Ste. Marie Canal will be directed to the Canal by arrangement with the lockmaster at the United States St. Mary's Falls Canal, normally by means of visual signals. Ship traffic control only.
<b>THUNDER BAY, ON</b> 48°25'12"N 089°11'31"W ➡VBA		16 12	Commercial vessels entering the Port of Thunder Bay are requested to contact Thunder Bay MCTS Centre when abeam of Welcome Islands and also when shifting berths or departing the harbour.

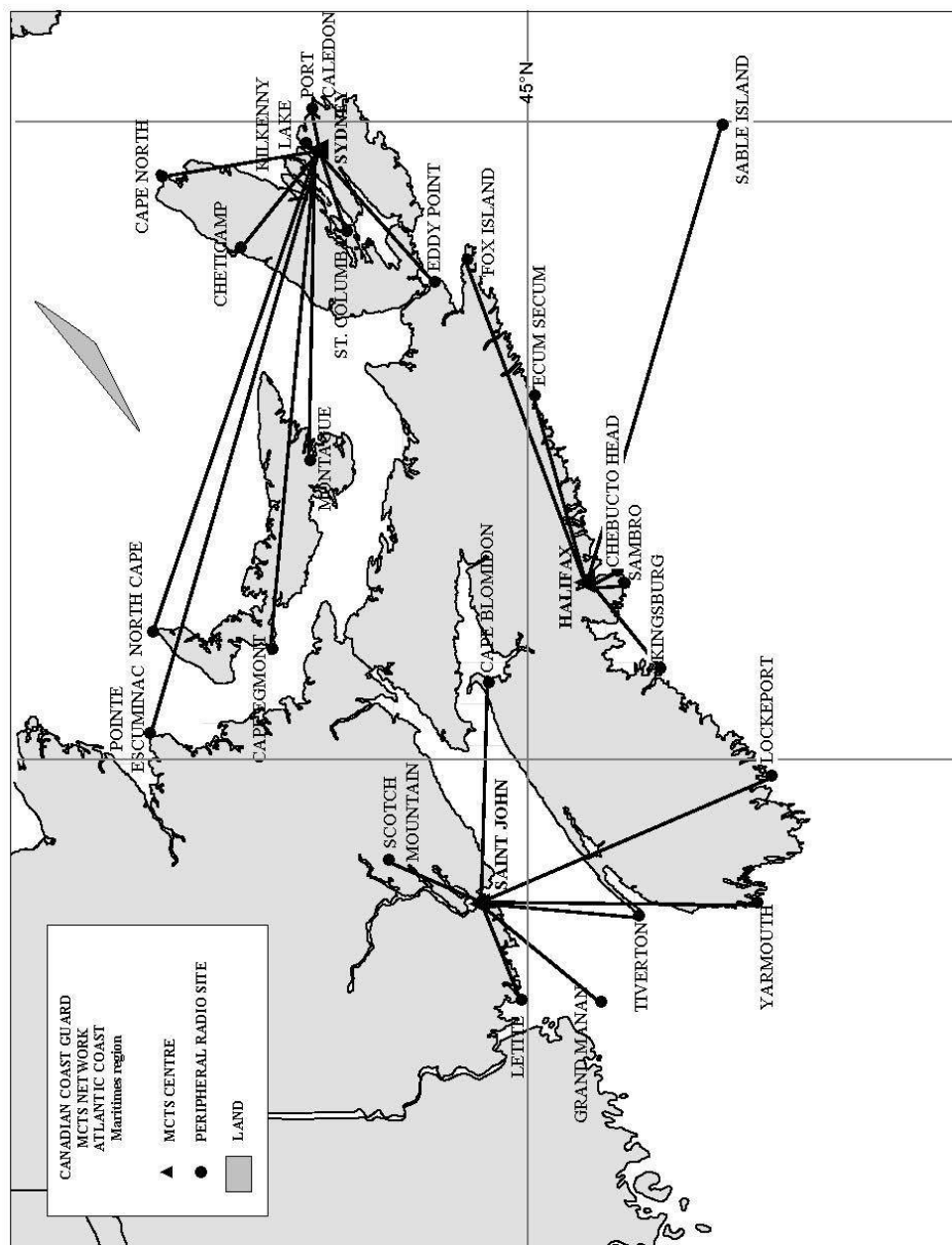


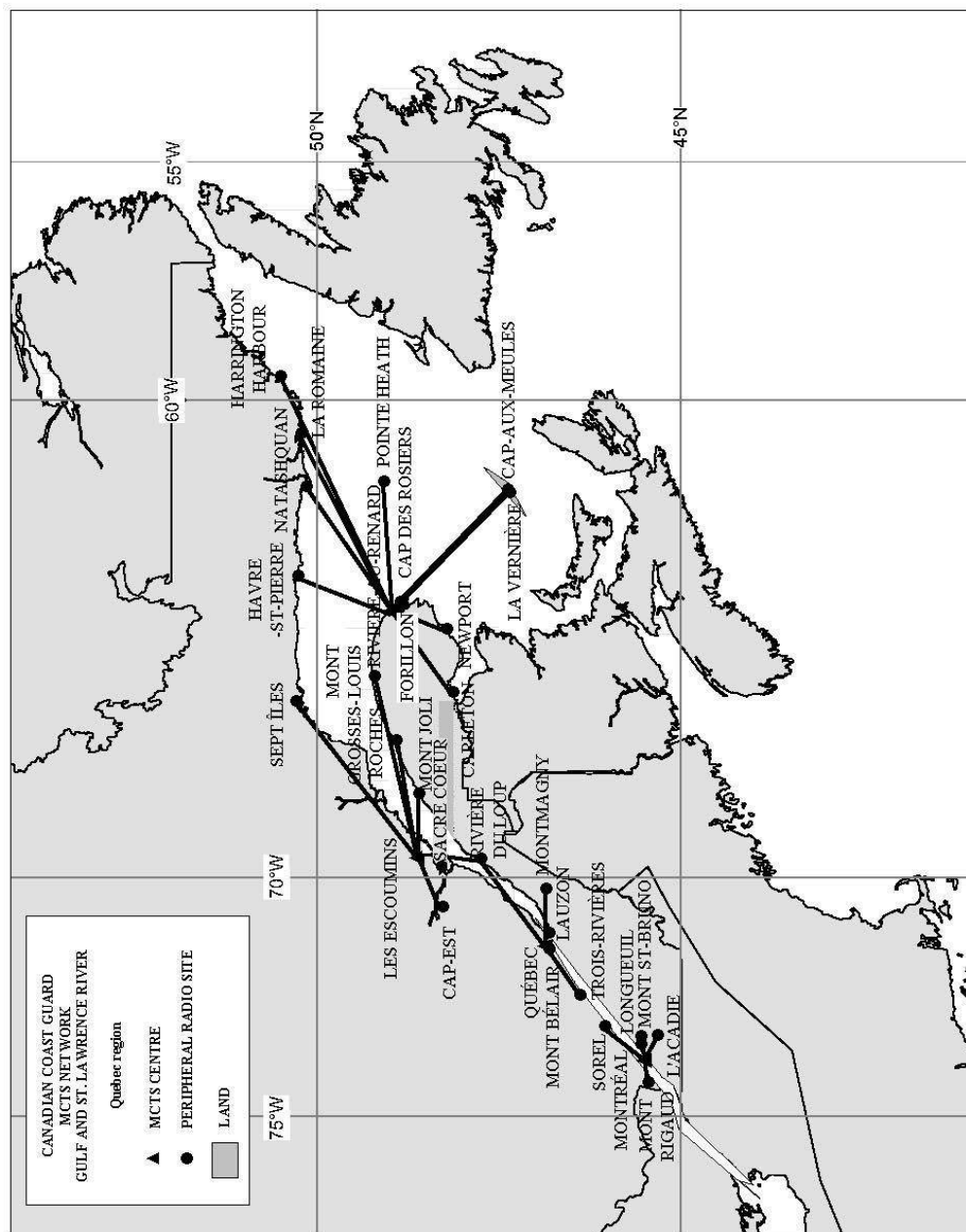


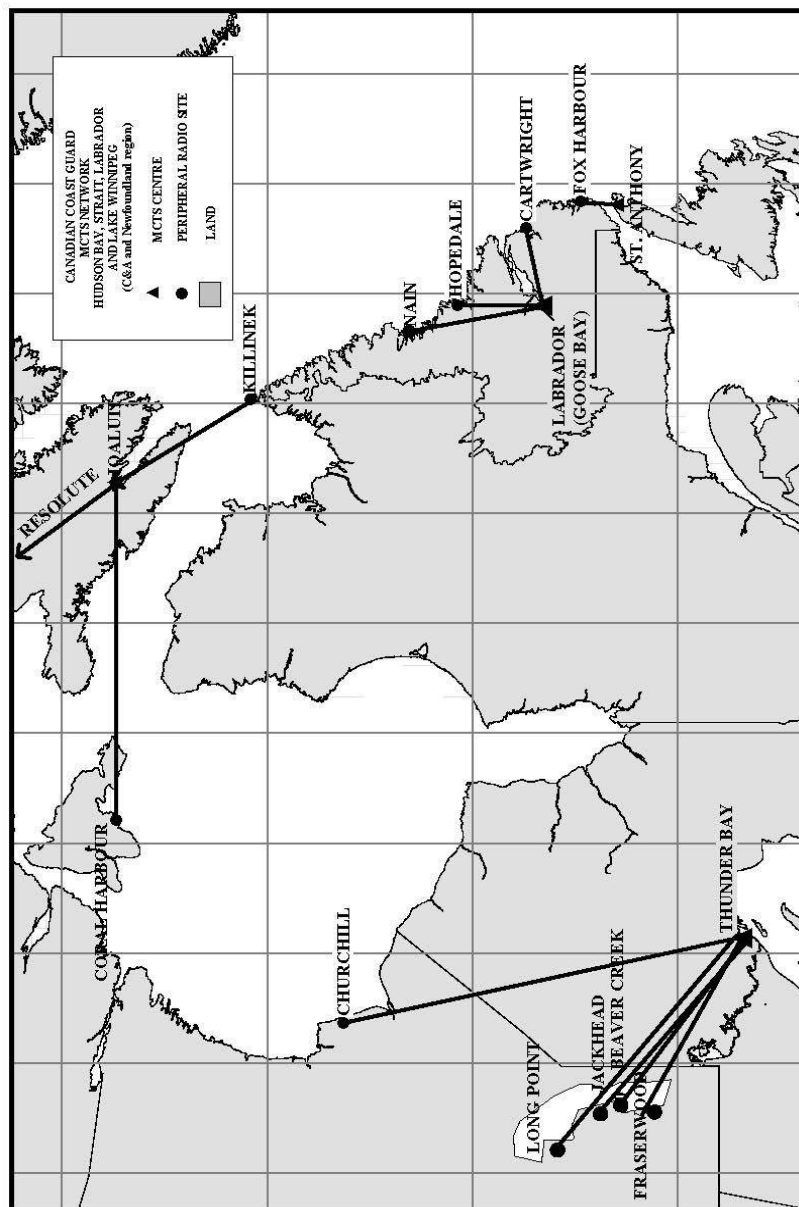
## LAKE WINNIPEG VHF Radio Coverage

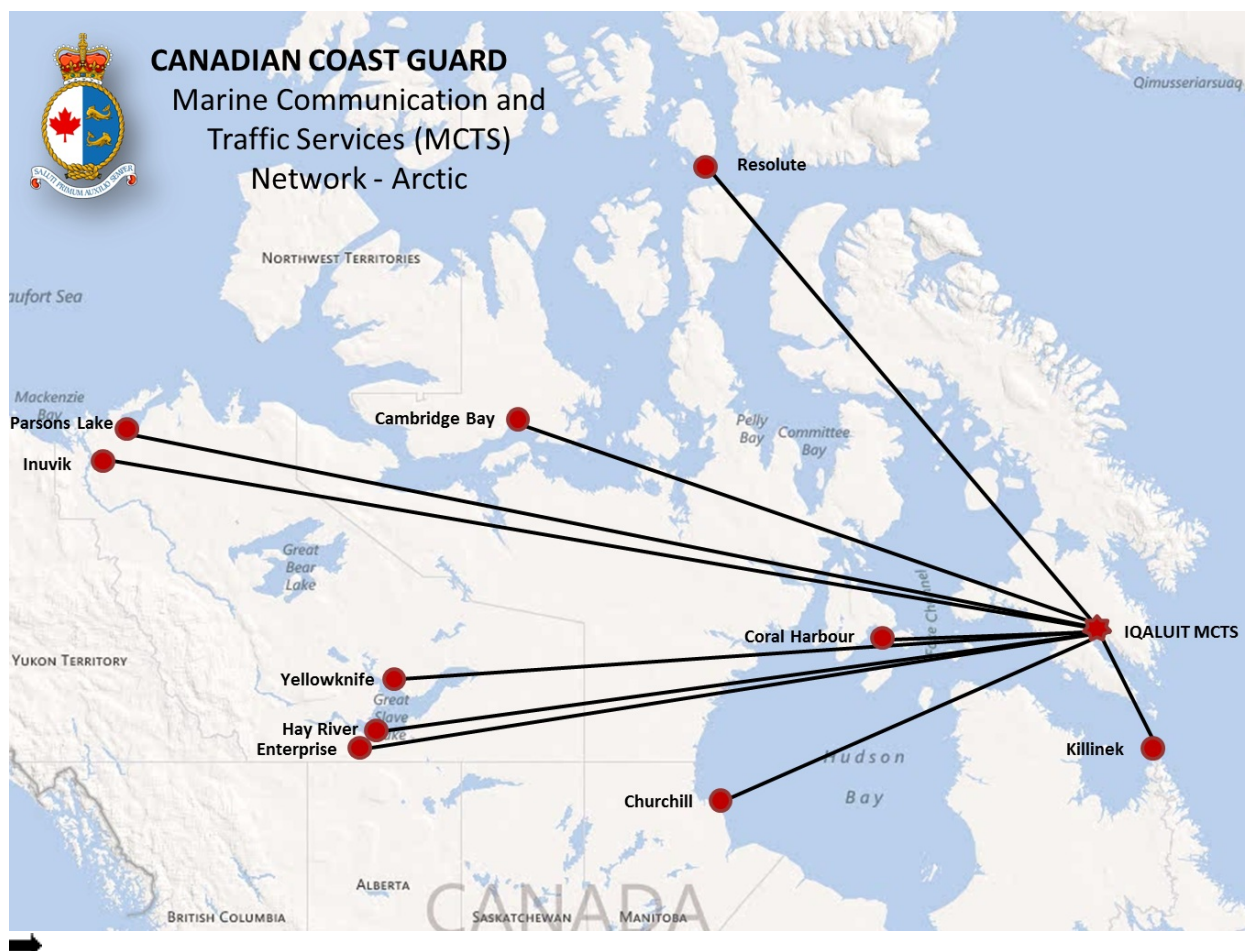












<b>RADIO BEACON STATIONS</b> <b>CONTINUOUSLY OPERATING RADIO BEACONS</b> <b>ATLANTIC COAST, GULF AND ST. LAWRENCE RIVER TO MONTRÉAL, EASTERN ARCTIC</b>				
NAME AND LOCATION	FREQUENCY kHz	RANGE NAUTICAL MILES	IDENTIFIER	REMARKS
<b>ST. PIERRE &amp; MIQUELON</b> <b>(France)</b> 46°45'45"N 56°10'10"W	386	100	... .. (S) (P)	Open year round.

<b>RADAR BEACON (RACONS)</b> <b>ATLANTIC COAST, GULF AND ST. LAWRENCE RIVER TO MONTRÉAL, EASTERN ARCTIC</b> <b>(located in Newfoundland)</b>				
NAME AND LOCATION	RANGE NAUTICAL MILES	ARC DEGREES	IDENTIFIER	REMARKS
<b>CAPE HARRIGAN LIGHT</b> 55°50'34"N 60°18'56.8"W	10	160-315	..- (K)	Navigation season only.
<b>CHANNEL HEAD LIGHTSTATION</b> 47°33'57"N 59°07'24.6"W	10	360	..- (C)	Open year round.
<b>COME BY CHANCE LIGHT AND WHISTLE BUOY "PCC"</b> 47°19'29.4"N 54°07'26.3"W	8	360	.- (A)	Open year round.
<b>DOMINO POINT</b> 53°27'42.4"N 55°44'31"W	10	360	..- (Y)	Navigation season only.
<b>GRAPPLING ISLAND LIGHT</b> 54°27'22.2"N 56°52'52.3"W	10	360	..- (G)	Navigation season only.
<b>HENS AND CHICKENS</b> 56°30'39.5"N 60°38'37.5"W	10	360	..- (W)	Open year round.
<b>QUAKER HAT</b> 54°44'12.5"N 57°20'37.7"W	10	360	..- (Q)	Open year round.
<b>WHITE BEAR ISLAND (NANUAKTOK)</b> 55°26'00.7"N 59°30'40.9"W	10	360	.- (N)	Navigation season only.
<b>NEGRO ISLAND LIGHT</b> 56°21'06"N 60°32'41"W	6	360	..- (Z)	Open year round



RADAR BEACON (RACONS) ATLANTIC COAST, GULF AND ST. LAWRENCE RIVER TO MONTRÉAL, EASTERN ARCTIC (located in Nova Scotia)				
NAME AND LOCATION	RANGE NAUTICAL MILES	ARC DEGREES	IDENTIFIER	REMARKS
<b>BEAR COVE LIGHT AND BELL BUOY "H6"</b> 44°32'36.3"N 63°31'19.6"W	8	360	⋮ (N)	Open year round.
<b>CAPE FORCHU</b> 43°47'38.8"N 66°09'19.3"W	10	360	⋮⋮ (B)	Open year round.
<b>CAPE SABLE</b> 43°23'24"N 65°37'16.9"W	10	360	⋮⋮ (C)	Open year round.
<b>CARIBOU HARBOUR LIGHT &amp; BELL BUOY "SS1"</b> 45°45'08"N 62°39'44"W	10	360	⋮⋮ (G)	Navigation season only.
<b>CHEBUCTO HEAD LIGHT</b> 44°30'26.6"N 63°31'21.8"W	10	360	⋮⋮ (Z)	Open year round.
<b>CRANBERRY ISLANDS LIGHT</b> 45°19'29.6"N 60°55'38.2"W	10	360	⋮⋮ (B)	Open year round.
<b>LURCHER SHOAL BIFURCATION LIGHT BUOY "NM"</b> 43°48'57"N 66°29'58"W	8	360	⋮⋮ (K)	Open year round.

RADAR BEACON (RACONS) ATLANTIC COAST, GULF AND ST. LAWRENCE RIVER TO MONTRÉAL, EASTERN ARCTIC (located in New Brunswick)				
NAME AND LOCATION	RANGE NAUTICAL MILES	ARC DEGREES	IDENTIFIER	REMARKS
<b>GANNET ROCK LIGHT</b> 44°30'37.1"N 66°46'52.9"W	10	360	⋮⋮ (G)	Open year round.
<b>MISCOU ISLAND LIGHT</b> 48°00'33.7"N 64°29'34.7"W	15.5	300	⋮⋮ (K)	Open year round.
<b>PORTAGE ISLAND CHANNEL RANGE REAR LIGHT</b> 47°07'42.3"N 65°02'31.2"W	10	360	⋮⋮ (G)	Open year round.
<b>SAINT JOHN HARBOUR LIGHT AND WHISTLE BUOY "J"</b> 45°12'55.3"N 66°02'36.9"W	8	360	⋮ (N)	Open year round.
<b>SHIPPEGAN NORTH CHANNEL LIGHT AND WHISTLE BUOY "EE"</b> 47°53'14.2"N 64°45'47.6"W	10	360	⋮⋮ (G)	Open year round.

RADAR BEACON (RACONS) ATLANTIC COAST, GULF AND ST. LAWRENCE RIVER TO MONTRÉAL, EASTERN ARCTIC (located in P.E.I.)				
NAME AND LOCATION	RANGE NAUTICAL MILES	ARC DEGREES	IDENTIFIER	REMARKS
<b>CONFEDERATION BRIDGE PIER, SHAFT 21</b> 46°12'39.9"N 63°45'05.5"W	30	360	- (T)	Open year round.
<b>CONFEDERATION BRIDGE PIER, SHAFT 22</b> 46°12'33.8"N 63°45'13.1"W	30	360	--- (B)	Open year round.

RADAR BEACON (RACONS) ATLANTIC COAST, GULF AND ST. LAWRENCE RIVER TO MONTRÉAL, EASTERN ARCTIC (located in Québec)				
NAME AND LOCATION	RANGE NAUTICAL MILES	ARC DEGREES	IDENTIFIER	REMARKS
<b>ANSE AUX BASQUES</b> 48°19'07.5"N 69°24'46.5"W	10	360	-- (K)	Open year round.
<b>BANC DU BRULE DOWNSTREAM REAR RANGE LIGHT</b> 47°05'22.7"N 70°42'38.9"W	10	360	-- (K)	Open year round.
<b>BEACON ISLAND, UNGAVA BAY</b> 58°54'08"N 66°20'30.5"W	10	360	-- (G)	Navigation season only.
<b>GENTILLY FRONT RANGE LIGHT</b> 46°25'48"N 72°15'46.9"W	10	360	-- (K)	Open year round.
<b>ÎLE AUX RAISINS RANGE REAR LIGHT</b> 46°05'52.7"N 72°57'58.4"W	10	360	-- (K)	Open year round.
<b>ÎLE RICHELIEU</b> 46°38'33.5"N 71°54'35.2"W	10	360	-- (M)	Open year round.
<b>ÎLE SAINT-OURS SOUTH LIGHT</b> 45°54'20.5"N 73°13'31.5"W	10	360	-- (M)	Open year round.
<b>ÎLES MERMETTES/ RIVIÈRE ST-PAUL</b> 51°19'20.5"N 57°50'34.6"W (NAD 27)	10	360	-- (M)	Open year round.
<b>KAHNAWAKE FRONT RANGE</b> 45°24'10.3"N 73°47'45.7"W	4	360	-- (G)	Navigation season only
<b>KITDLIAT ISLAND, UNGAVA BAY</b> 59°58'34.5"N 69°37'30.6"W	10	360	-- (K)	Navigation season only.
<b>LAKE ST. PIERRE UPSTREAM (CURVE LOUISEVILLE) REAR RANGE LIGHT</b> 46°11'00.4"N 72°55'38.2"W	10	360	-- (N)	Open year round.
<b>LAVALTRIE REAR RANGE</b> 45°52'43.1"N 73°16'02.6"W	10	360	-- (N)	Open year round.
<b>NICOLET SECTOR LIGHT</b> 46°15'27.1"N 72°39'03.5"W	10	360	-- (G)	Open year round.
<b>NIPPER ISLAND, UNGAVA BAY</b> 59°00'26.5"N 68°53'18"W	10	360	-- (G)	Navigation season only.

RADAR BEACON (RACONS) ATLANTIC COAST, GULF AND ST. LAWRENCE RIVER TO MONTRÉAL, EASTERN ARCTIC (located in Québec)				
NAME AND LOCATION	RANGE NAUTICAL MILES	ARC DEGREES	IDENTIFIER	REMARKS
<b>POINTE AUX TREMBLES (NEUVILLE)</b> 46°41'47.4"N 71°34'22.5"W	10	360	--. (G)	Open year round.
<b>POINTE DE L'EST; EAST CARDINAL LIGHT BUOY YY</b> 47° 36' 45.2" N 61° 19' 39.4" W	10	360	--. (G)	Navigation season only.
<b>POINTE DE MANICOUAGAN</b> 49°06'04.4"N 68°11'37.8"W	10	360	--. (X)	Open year round.
<b>POINTE DU NORD-EST/ RIVIÈRE ST. AUGUSTIN</b> 51°10'37.4"N 58°25'42.7"W (NAD 27)	10	360	-. (N)	Open year round.
<b>POINTE PENOUILLE REAR RANGE</b> 48°51'11.8"N 64°25'36.3"W	10	360	--. (G)	Open year round.
<b>POINTE QIRNIRAUJAQ (CONGARAYA)</b> 58°34'59.4"N 68°00'24.9"W (NAD 27)	10	360	--. (X)	Navigation season only.
<b>PORT DE QUÉBEC-- (PONT DE QUÉBEC NORTH OF CHANNEL)</b> 46°44'47.4"N 71°17'19.1"W	10	360	- (T)	Open year round.
<b>PORT DE QUÉBEC-- (PONT DE QUÉBEC SOUTH OF CHANNEL)</b> 46°44'40.3"N 71°17'14.9"W	10	360	--- (B)	Open year round.
<b>PORT DE RIMOUSKI FRONT RANGE LIGHT</b> 48°28'06"N 68°31'06.1"W	10	360	-. (N)	Open year round.
<b>ST. JEAN, ÎLE D'ORLÉANS</b> 46°54'56.5"N 70°53'47"W	10	360	--. (G)	Open year round.
<b>TROIS-RIVIÈRES -- WEST (PONT LAVIOLETTE NORTH OF CHANNEL)</b> 46°18'29.1"N 72°33'45.9"W	10	360	- (T)	Open year round.
<b>TROIS-RIVIÈRES -- WEST (PONT LAVIOLETTE SOUTH OF CHANNEL)</b> 46°18'24.4"N 72°33'37.7"W	10	360	.... (H)	Open year round.
<b>YAMACHICHE CURVE FRONT RANGE LIGHT/LAC ST- PIERRE</b> 46°12'18.7"N 72°49'49.1"W	10	360	-- (M)	Open year round.

RADAR BEACON (RACONS) ATLANTIC COAST, GULF AND ST. LAWRENCE RIVER TO MONTRÉAL, EASTERN ARCTIC (located in Manitoba)				
NAME AND LOCATION	RANGE NAUTICAL MILES	ARC DEGREES	IDENTIFIER	REMARKS
<b>CHURCHILL</b> 58°47'00.9"N 94°13'59.2"W	10	360	--. (G)	Navigation season only.

RADAR BEACON (RACONS) ATLANTIC COAST, GULF AND ST. LAWRENCE RIVER TO MONTRÉAL, EASTERN ARCTIC (located in Nunavut and Nunavik)				
NAME AND LOCATION	RANGE NAUTICAL MILES	ARC DEGREES	IDENTIFIER	REMARKS
<b>BROOMFIELD ISLAND HUDSON BAY</b> 55°40'24"N 79°14'18"W (NAD 27)	10	360	.. (N)	Navigation season only.
<b>COATS ISLAND</b> 62°10'20"N 83°08'00"W (NAD 27)	10	360	... (C)	Navigation season only.
<b>NOTTINGHAM ISLAND</b> 63°05'10"N 77°57'00"W (NAD 27)	10	360	.. (N)	Navigation season only.
<b>SENTRY ISLAND</b> 61°09'35.6"N 93°52'14.6"W	10	360	... (C)	Navigation season only.
<b>WALRUS ISLAND</b> 61°57'59.4"N 92°28'41.1"W	10	360	... (Y)	Navigation season only.

RADAR BEACON (RACONS) ATLANTIC COAST, GULF AND ST. LAWRENCE RIVER TO MONTRÉAL, EASTERN ARCTIC (located in Nunavut)				
NAME AND LOCATION	RANGE NAUTICAL MILES	ARC DEGREES	IDENTIFIER	REMARKS
<b>➡MANSEL ISLAND</b> 62°25'00"N 79°36'30"W	10	360	.. (K)	Navigation season only.

RADAR BEACON (RACONS) ATLANTIC COAST, GULF AND ST. LAWRENCE RIVER TO MONTRÉAL, EASTERN ARCTIC (located in USA)				
NAME AND LOCATION	RANGE NAUTICAL MILES	ARC DEGREES	IDENTIFIER	REMARKS
<b>LIGHT 73</b> 44°55'33.5"N 75°05'43.1"W	6 to 8	360	-- (M)	Navigation season only
<b>LIGHT BUOY 153</b> 44°30'37.2"N 75°46'07.6"W		360	-- (M)	Navigation season only

RADAR BEACON (RACONS) LAKE WINNIPEG				
NAME AND LOCATION	RANGE NAUTICAL MILES	ARC DEGREES	IDENTIFIER	REMARKS
<b>EAST BREAKWALL RED RIVER ENTRANCE,</b> 50°24'05"N 96°48'45.7"W	5	360	.. (G)	Navigation season only.

<b>RADAR BEACON (RACONS)</b> <b>GREAT LAKES (includes St. Lawrence River to Montréal)(located in Ontario unless noted)</b>				
<b>NAME AND LOCATION</b>	<b>RANGE NAUTICAL MILES</b>	<b>ARC DEGREES</b>	<b>IDENTIFIER</b>	<b>REMARKS</b>
<b>GRANITE STATE SHOAL LIGHT 214, ST. LAWRENCE SEAWAY (USA)</b> 44° 17' 0.69" N 76° 0' 58.39" W			-- (M)	Operated by USA.
<b>CHAPMAN SHOAL LIGHT 222, ST. LAWRENCE SEAWAY (USA)</b> 44° 15' 27.17" N 76° 4' 18.45" W			-- (C)	Operated by USA.
<b>PRESCOTT/OGDENSBURG BRIDGE PIERS (SOUTH SIDE), ST. LAWRENCE RIVER</b> 44°44'01.7"N 75°27'29.9"W	10	360	--- (H)	Navigation season only.
<b>PRESCOTT/OGDENSBURG BRIDGE PIERS (NORTH SIDE), ST. LAWRENCE RIVER</b> 44°44'11.3"N 75°27'37.4"W	10	360	- (T)	Navigation season only.
<b>LONG POINT, LAKE ERIE</b> 42°32'55.2"N 80°02'58.1"W	10	360	-- (M)	Operational year round.
<b>SOUTHEAST SHOAL, LAKE ERIE</b> 41°49'34.8"N 82°27'46.1"W	10	360	-- (K)	Operational year round.
<b>PELEE PASSAGE, LAKE ERIE</b> 41°51'14.9"N 82°34'54.7"W	10	360	-- (M)	Operational year round.
<b>EAST OUTER CHANNEL (LIGHT 1E), LAKE ERIE (USA)</b> 41°54'48.2"N 83°06'24.1"W	12	360	--- (O)	Operated by USA. March 15 - January 15
<b>DETROIT RIVER LIGHT, DETROIT RIVER (USA)</b> 42°00'02.9"N 83°08'28.5"W	10	360	-- (X)	Operated by USA. Operational year round.
<b>LAKE ST. CLAIR LIGHT, LAKE ST. CLAIR (USA)</b> 42°27'55.1"N 82°45'15.4"W	6	360	-- (N)	Operated by USA.
<b>LIGHT 7, LAKE HURON (USA)</b> 43 03 34.838N 82 25 03.981W	6		-- (T)	Operated by USA, May 15 - October 15
<b>GLADMAN ROCK, GEORGIAN BAY</b> 45°20'51.9"N 80°18'52.7"W	10	360	-- (G)	Navigation season only.
<b>GEREAUX ISLAND, GEORGIAN BAY</b> 45°44'40"N 80°39'32.7"W	10	360	-- (G)	Navigation season only.
<b>MAMAINSE HARBOUR, LAKE SUPERIOR</b> 47°02'15.1"N 84°47'11.5"W	10	360	-- (M)	Navigation season only.
<b>COMFORT ISLAND SHOAL LIGHT 199, ST. LAWRENCE RIVER (U.S.)</b> 44°19'26.038"N 75°56'19.493"W			-- (M)	Operated by USA.
<b>PECHE ISLAND, LAKE ST. CLAIR</b> →42°21'26.038"N 82°54'24.7"W			-- (T)	Operated by USA.

## **PART 3**

### **VESSEL TRAFFIC SERVICES**

The purpose of this section is to describe to shipboard personnel the ship reporting procedures to be followed by vessels when within or intending to enter a Vessel Traffic Services (VTS) zone.

#### **RESPONSIBILITIES**

There is no intention on the part of the Canadian Coast Guard to attempt to navigate or manoeuvre ships from a shore station and nothing in this publication overrides the authority of the master of his responsibility for the safe navigation of his ship. Information passed to the master is intended to assist him in the safe conduct of his ship.

A Marine Communications and Traffic Services officer may, with respect to any vessel of a prescribed class that is about to enter or is within a Vessel Traffic Services zone:

- (a) grant a clearance to the vessel to enter, leave or proceed within the Vessel Traffic Services zone;
- (b) direct the master, pilot or person in charge of the deck watch of the vessel to provide any pertinent information in respect of that vessel that may be specified in the direction;
- (c) direct the vessel to use any radio frequencies in communications with coast stations or other vessel that may be specified in the direction; and
- (d) direct the vessel at the time, between the times or before or after any event that may be specified in the direction;
  - to leave a Vessel Traffic Services zone,
  - to leave or refrain from entering any area within a Vessel Traffic Services zone that may be specified in the direction, or
  - to proceed to or remain at any location within a Vessel Traffic Services zone that may be specified in the direction.

A vessel, as well as the master, pilot or person in charge of the deck watch of a vessel, shall comply with a direction given to it or them by a Marine Communications and Traffic Services officer. Notwithstanding, the master, pilot or person in charge of the deck watch may take any action that may be required to ensure the safety of life, the ship or any other ship.

The master of a ship shall ensure that before the ship enters a Vessel Traffic Services zone the ship's radio equipment is capable of receiving and transmitting radio communications on the appropriate Vessel Traffic Services sector frequency.

#### **TRAFFIC CLEARANCE**

A "Traffic Clearance" is an authorization for a ship to proceed subject to such conditions as may be included in the authorization. The traffic clearance is predicated upon ship report information and known waterway/traffic conditions. A traffic clearance does not eliminate the need for other authorizations required by legislation or by-laws.

Should any factor upon which the traffic clearance is predicated alter to the detriment of safe navigation, the traffic clearance may be delayed or other conditions may be attached to the traffic clearance.

A Traffic Clearance is required prior to:

- entering a Vessel Traffic Services zone;
- commencing a departure manoeuvre;
- commencing a manoeuvre that may be detrimental to safe navigation;
- proceeding after being stranded, stopped due to breakdown of main propulsion machinery or steering gear, or involved in a collision.

## COMMUNICATIONS

Radiotelephone procedures used in communicating with a Marine Communications and Traffic Services centre are those specified by the International Telecommunications Union in the *"Manual for Use by the Maritime Mobile and Maritime Mobile Satellite Services"*.

A continuous listening watch shall be maintained on the appropriate Vessel Traffic Services sector frequency on radio equipment located:

- at any place on board the ship, where the ship is at anchor or moored to a buoy; and
- in the vicinity of the ship's conning position, where the ship is underway.

A continuous listening watch may be suspended if a Marine Communications and Traffic Services officer directs the ship to communicate with coast stations and/or other ship stations on a different VHF radio frequency.

All times given in local Vessel Traffic Services zone reports should be in local time and in accordance with the 24-hour clock system.

Navigation safety calls on designated Vessel Traffic Services sector frequencies should be kept to the minimum consistent with the safety requirement of the situation.

### Communication Difficulties

Where a ship, for any reason other than ship board radio equipment failure is unable to obtain the required traffic clearance or after receiving a traffic clearance, is unable to maintain direct communication with the appropriate Marine Communications and Traffic Services centre, the master may nevertheless proceed on his route, but shall take all reasonable measures to communicate with the appropriate Marine Communications and Traffic Services centre as soon as possible and obtain the specified clearance.

### Ship Board Radio Equipment Malfunction

In the event of a ship board radio equipment failure where the ship is unable to obtain the required traffic clearance or after receiving a traffic clearance, is unable to maintain direct communication with the appropriate Marine Communications and Traffic Services centre, the vessel shall:

- (a) if it is in a port or anchorage where repairs can be made, remain in the port until the vessel is able to establish communications in accordance with the *Canada Shipping Act, 2001*, Part 5, Section 6(a); or
- (b) if it is not in a port or anchorage where repairs can be made, proceed to the nearest reasonably safe port or anchorage on its route and remain there until the vessel is able to establish communications in accordance with the *Canada Shipping Act, 2001*, Part 5, Section 6(b).

## ZONE DESCRIPTION

### Eastern Canada

The Eastern Canada Vessel Traffic Services zone consists of the Canadian waters on the east coast of Canada south of the sixtieth parallel of north latitude and in the St. Lawrence River east of 66° 00' west longitude except the waters within Ungava Bay and the waters within the Vessel Traffic Services zones referred to in the *Vessel Traffic Services Zone Regulations*.

### Northern Canada

The Northern Canada Vessel Traffic Services (NORDREG) zone consists of:

- (a) the shipping safety control zones prescribed by the *Shipping Safety Control Zones Order*;<sup>1</sup>
- (b) the waters of Ungava Bay, Hudson Bay and Kugmallit Bay that are not in a shipping safety control zone;
- (c) the waters of James Bay;
- (d) the waters of Koksoak River from Ungava Bay to Kuujjuaq;
- (e) the waters of Feuilles Bay from Ungava Bay to Tasiujaq;
- (f) the waters of Chesterfield Inlet that are not within a shipping safety control zone and the waters of Baker Lake; and
- (g) the waters of Moose River from James Bay to Moosonee.

### Local Zones

Local Vessel Traffic Services zones are as specified in the schedule of the *Vessel Traffic Services Zone Regulations*.

## ZONE APPLICATION

### Eastern Canada Vessel Traffic Services Zone (ECAREG)

With respect to the Eastern Canada Vessel Traffic Services zone, the *Eastern Canada Vessel Traffic Services Zone Regulations* apply in respect of:

- a) every ship of 500 tons gross tonnage or more;
- b) every ship that is engaged in towing or pushing a vessel, where the combined tonnage of the ship and the vessel being towed or pushed is 500 tons gross tonnage or more; or
- c) every ship carrying a pollutant or dangerous goods, or engaged in towing or pushing a vessel carrying a pollutant or dangerous goods as prescribed in the;
  - i) *International Maritime Dangerous Goods (IMDG) Code*, and
  - ii) *➡Vessel Pollution and Dangerous Chemicals Regulations*.

Participation is mandatory.

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<sup>1</sup> The Shipping Safety Control zones cover Canada's coastal northern waters within the area enclosed by the 60th parallel of north latitude, the 141st meridian of west longitude and the outer limit of the exclusive economic zone; however, where the international boundary between Canada and Greenland is less than 200 nautical miles from the baselines of the territorial sea of Canada, the international boundary shall be substituted for that outer limit.



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**Northern Canada Vessel Traffic Services Zone (NORDREG)**

With respect to the Northern Canada Vessel Traffic Services zone (NORDREG), the *Northern Canada Vessel Traffic Services Zone Regulations* apply to the following classes of vessels:

- (a) vessels of 300 ➡ tons gross tonnage or more;
- (b) vessels that are engaged in towing or pushing another vessel, if the combined gross tonnage of the vessel and the vessel being towed or pushed is 500 ➡ tons gross tonnage or more; and
- (c) vessels that are carrying as cargo, a pollutant or dangerous goods, or that are engaged in towing or pushing a vessel that is carrying as cargo a pollutant or dangerous goods.

Participation is mandatory.

**Local Vessel Traffic Services Zones**

With respect to the Vessel Traffic Services zones specified in the *Vessel Traffic Services Zone Regulations*, these regulations apply in respect of:

- a) every ship twenty metres or more in length;
- b) every ship engaged in towing or pushing any vessel or object, other than fishing gear, where;
  - i) the combined length of the ship and any vessel or object towed or pushed by the ship is forty-five metres or more in length, or
  - ii) the length of the vessel or object being towed or pushed by the ship is twenty metres or more in length.

With respect to the Vessel Traffic Services zones specified in the *Vessel Traffic Services Zone Regulations*, these regulations do not apply in respect of:

- a ship engaged in towing or pushing any vessel or object within a log booming ground;
- a pleasure yacht that is less than 30 metres in length; and
- a fishing vessel that is less than 24 metres in length and not more than 150 tons gross tonnage.

➡ Participation is mandatory.

**REPORTS****Change in information**

A report shall be made whenever a significant change occurs in the information previously provided in any report made pursuant to the *Eastern Canada Vessel Traffic Services Zone Regulations*, ➡ *Northern Canada Vessel Traffic Services Zone Regulations* or the *Vessel Traffic Services Zone Regulations* except where the report was made when departing from a Vessel Traffic Services zone.

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**Non-Routine Reports**

Pursuant to the *Eastern Canada Vessel Traffic Services Zone Regulations* and the *Vessel Traffic Services Zone Regulations* a report indicating the vessel's name, position and a description of the incident shall be made prior to the vessel proceeding as soon as the master becomes aware of any of the following conditions:

- i) the occurrence on board the ship of any fire;
- ii) the involvement of the ship in a collision, grounding or striking;
- iii) any defect in the ship's hull, main propulsion systems or steering systems, radars, compasses, radio equipment, anchors or cables;
- iv) any discharge or probable discharge of a pollutant from the ship into the water;
- v) another ship in apparent difficulty;
- vi) any obstruction to navigation;
- vii) any aid to navigation that is functioning improperly, damaged, off-position or missing;
- viii) the presence of any pollutant in the water;
- ix) the presence of a ship that may impede the movement of other ships; and
- x) any ice and weather conditions that are detrimental to safe navigation.

**Notes:**

- (1) Items vi), vii) and viii) are not required if the information has been previously promulgated by a Notice to Shipping.
- (2) Mariners are encouraged to provide, on a voluntary basis, any information pertaining to charts and publications which may not be on board so that arrangements can be made to embark the necessary items.

**ECAREG - Information Requirements**

ECAREG zone reports shall be communicated directly to ECAREG or to the nearest Canadian Coast Guard Marine Communications and Traffic Services centre. All times given in ECAREG zone reports shall be Coordinated Universal Time (UTC).

Dependent upon the reporting requirement, various elements of the following may be required to be reported.

- (a) the name of the ship;
- (b) the radio call sign of the ship;
- (c) the name of the master of the ship;
- (d) the position of the ship;
- (e) the time the ship arrived at the position;
- (f) the course of the ship, if any;
- (g) the speed of the ship, if any;
- (h) the prevailing weather conditions (including ice if applicable);
- (i) the estimated time that the ship will enter the Eastern Canada Vessel Traffic Services Zone;
- (j) the estimated time that the ship will depart the berth;
- (k) the destination of the ship;
- (l) the estimated time of arrival of the ship at the destination;
- (m) the route the ship intends to take through the Eastern Canada Vessel Traffic Services Zone to arrive at the destination;
- (n) the name of the last port of call of the ship;
- (o) the draft of the ship;
- (p) any dangerous goods, listed by class, or pollutant, that is carried on board the ship or a vessel being towed or pushed by the ship;
- (q) revoked;

- (r) any defect in the ship's hull, main propulsion systems or steering systems, radars, compasses, radio equipment, anchors or cables;
- (s) any discharge, or threat of discharge, of a pollutant from the ship into the water, and any damage to the ship that may result in the discharge of a pollutant from the ship into the water;
- (t) the name of the Canadian or United States agent of the ship; or
- (u) the date of expiration of a certificate referred to in Article VII of the *International Convention on Civil Liability for Oil Pollution Damage, 1969/1992*, the International Oil Pollution Prevention Certificate, the International Pollution Prevention Certificate for the Carriage of Noxious Liquid Substances in Bulk, the Certificate of Fitness and the Certificate of Compliance, if any issued to the ship. (The following is also requested: the date and expiration of the ISM Safety Management Certificate, the ISM document of compliance, and the International Convention on Civil Liability for Bunker Oil Pollution Damage, 2001 Certificate (known as Bunkers Convention Certificate), if any, issued to the ship.)

### **ECAREG Zone Reports**

#### **Prior to Entering the Zone**

A report containing all the required information listed, except item (j), shall be made 24 hours prior to entering the zone, or as soon as practical where the estimated time of arrival of the ship at the zone is less than 24 hours after the time the ship departed for the last port of call.

This report is not required where:

- (i) the ship is on a voyage between two ports within the zone; and
- (ii) the ship is entering the zone directly from the Arctic Canada Traffic zone, and is in possession of a valid NORDREG Clearance.

#### **Entering at Zone Boundary**

A report containing the required information listed in (a), (b), (d), (h) and (i), shall be made immediately before the ship crosses the zone boundary when entering the zone.

This report is not required when entering directly from a local Vessel Traffic Services zone.

#### **Arrival at Berth**

A report containing the required information listed in (a) and (b), as well as the following information:

- i) port of arrival; and
- ii) time of arrival;

shall be made on arrival of the ship at a berth.

#### **Departing Berth**

A report containing the required information, except item (i), shall be made two hours before a ship departs a berth.

A traffic clearance to depart a berth is valid for one hour from the estimated time of departure. Where a traffic clearance to depart berth has expired because of a revised time of departure, a new traffic clearance is required. In this case, the report need only contain the ship's name, call-sign, position and revised time of departure.

This report is not required where the ship is proceeding to another berth in the same port.

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## Exiting the Zone

A report containing the required information listed in (a), (b), (d) and (h), shall be made immediately before the ship crosses the seaward boundary.

In a case where exiting a zone coincides with entering a local Vessel Traffic Services zone, this report is not required. Procedures as local Vessel Traffic Services zone reporting requirements shall be followed.

## NORDREG Zone Reports

### Format

NORDREG reports shall be addressed to NORDREG CANADA and communicated either directly to NORDREG CANADA or to the nearest Canadian Coast Guard Marine Communications and Traffic Services centre. ➡ All times indicated in NORDREG reports shall be in Coordinated Universal Time (UTC). The master of a ship shall ensure that these reports are made in accordance with the stated requirements.

The information requested from the ships is derived from the standard reporting format shown in International Maritime Organization resolution A.851(20) – *General Principles for Ship Reporting Systems and Ship Reporting Requirements, Including Guidelines for Reporting Incidents Involving Dangerous Goods, Harmful Substances and/or Marine Pollutants*.

Every report shall begin with the term “NORDREG” (system identifier) and be followed by whichever of the following two letters corresponds to the report:

- (a) “SP”, in the case of a sailing plan report;
- (b) “PR”, in the case of a position report;
- (c) “FR”, in the case of a final report;
- (d) “DR”, in the case of a deviation report.

The report must include the applicable designators followed by the information required in accordance with the table at Part 3, page 9.

### Content and time and geographical position for submitting reports

Vessels shall send a report as follows, and provide the information required in accordance with the table at Part 3, page 9 that corresponds to the designators specified.

### When the vessel is about to enter the NORDREG zone

A sailing plan report (SP) shall be provided when the vessel is about to enter the NORDREG zone and must include the following designators: A, B, either C or D, E, F, G, H, I, L, O, P, Q, S, T, W, and X.

**Note:** Designators O, Q, T are not required when entering directly from the ECAREG zone.

Vessels about to enter the NORDREG zone should provide the sailing plan report 24 hours in advance of entering the zone, or as soon as possible after leaving a port that is less than 24 hours from the NORDREG zone. This ensures vessels are not delayed in obtaining a clearance from Marine Communications and Traffic Services and enables Marine Communications and Traffic Services to assess current conditions and prepare relevant safety information for the vessel.<sup>2</sup>

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<sup>2</sup> Vessels must obtain a clearance from Marine Communications and Traffic Services before entering the NORDREG zone.

**Departing a berth/anchorage**

A sailing plan report (SP) shall be provided more than one hour but not more than two hours before a vessel departs from a berth within the NORDREG zone, unless the vessel is moving to another berth in the same port. The sailing plan report must include the following designators: A, B, either C or D, H, I, L, O, P, Q, S, T, W, and X.

**Note:** Designators O, P, Q, S, T, W, X are not required if the corresponding information has not changed since the previous sailing plan report.

**Getting Underway After an Incident**

A sailing plan report (SP) shall be provided immediately before a vessel gets underway within the NORDREG zone if the vessel; has been stranded, has stopped as a result of a breakdown in the main propulsion systems or steering systems, or has been involved in a collision. The sailing plan report must include the following designators: A, B, either C or D, I, L, O, P, Q, S, T, W and X.

**Note:** Designators O, P, Q, S, T, W, X are not required if the corresponding information has not changed since the previous sailing plan report.

**Entering at Zone Boundary**

A position report (PR) shall be provided immediately after a vessel enters the NORDREG zone and must include the following designators: A, B, either C or D, E, F, and S.

**Daily**

A position report (PR) shall be provided daily at 1600 UTC, unless the vessel is transmitting LRIT information. The position report shall include the following designators: A, B, either C or D, E, F, and S.

**Other Situations**

A position report (PR) shall be provided with designators A, B, either C or D, E, F, S and X as soon as feasible after a vessel's master becomes aware of any of the following:

- another vessel in apparent difficulty;
- any obstruction to navigation;
- any aid to navigation that is not functioning properly or is damaged, out of position or missing;
- any ice or weather conditions that are hazardous to safe navigation;
- a pollutant in the water.

**Arrival at berth/anchorage**

A final report (FR) shall be provided on the arrival of a vessel at a berth within the NORDREG zone and include the following designators: A and K.

**Exiting the Zone**

A final report (FR) shall be provided immediately before a vessel exits the NORDREG zone and include the following designators: A and K.

## Deviation Report

A deviation report (DR) shall be provided when a vessel's position varies significantly from the position that was expected based on the sailing plan report, or when a vessel's intended voyage changes from the sailing plan report. The deviation report must include the following designators: A, B, either C or D and the other designators included in the sailing plan report if the corresponding information has changed since that report.

### NORDREG Zone Report: Designators and Information Required

Designator	Subject	Information
A	Vessel.	The vessel's name, the name of the state whose flag the vessel is entitled to fly and, if applicable, the vessel's call sign, International Maritime Organization ship identification number and Maritime Mobile Service Identity (MMSI) number.
B	Date and time.	Date and time corresponding to the vessel's position under designator C or D given in Coordinated Universal Time (UTC). A 6-digit group followed by a Z, the first 2 digits giving the day of the month, the next two digits giving the hour and the last two digits giving the minutes.
C or D	Vessel's position by latitude and longitude.	A 4-digit group giving latitude in degrees and minutes suffixed with N and a 5-digit group giving longitude in degrees and minutes suffixed with W.
D	Vessel's position by geographical name of place.	If the vessel is at a known place, the name of the place. If the vessel is not at a known place, the name of a known place followed by the vessel's true bearing (3-digits) and distance in nautical miles from the place.
E	Vessel's course.	True course. A 3-digit group.
F	Vessel's speed.	Speed in knots. A 2-digit group.
G	The vessel's last port of call.	The name of the port of call.
H	Vessel's entry into the NORDREG zone or departure from a berth within the NORDREG zone.	Estimated date and time the vessel will enter the NORDREG zone or depart the berth within the NORDREG zone, as appropriate. Date and time expressed as under designator B and entry or departure position expressed as under designator C or D.
I	Vessel's destination and expected time of arrival.	The name of the destination followed by expected time of arrival, expressed as under designator B.
K	Vessel's exit from the NORDREG zone or arrival at the vessel's destination.	Date and time vessel exits the NORDREG zone or arrives at its berth within the NORDREG zone. Exit date and time expressed as under designator B and exit or arrival position expressed as under designator C or D.
L	Vessel's intended route.	A brief description of the intended route through the NORDREG zone.
O	Vessel's maximum present static draught.	A 4-digit group giving metres and centimetres.
P	Cargo.	A brief description of the vessel's cargo and the cargo of any vessel being towed or pushed. The description must include: (a) in the case of a dangerous good, the class and quantity; and (b) in the case of a pollutant, the technical name and quantity.

Q	Defects, damage and deficiencies, as well as circumstances adversely affecting the vessel's normal navigation.	Brief details of any defects, damage or deficiencies of the vessel or its machinery, equipment or charts and nautical publications, or circumstances that adversely affect normal navigation.
S	Weather and Ice.	A brief description of the prevailing weather and ice conditions.
T	Vessel's authorized representative, agent or owner.	The name and contact information of; (a) in the case of a Canadian vessel, its authorized representative; (b) in the case of a foreign vessel, its Canadian or American agent or owner; (c) in the case of a pleasure craft that is not a Canadian vessel, the pleasure craft's owner.
W	Persons on board the vessel.	The number of persons.
X	Additional information for sailing plan report.  Information to be reported in a position report in certain situations.	(a) In the case of a sailing plan report the following information: (i) the total amount of oil on board that is for use as fuel or carried as cargo, expressed in cubic metres; (ii) if the vessel's owner or master holds an arctic pollution prevention certificate in respect of the vessel; the certificate's expiry date and the name of its issuing authority; (iii) the vessel's ice class, if applicable, and the name of the classification society that assigned the ice class; (iv) if the vessel is getting underway after having been stranded, stopped as a result of a breakdown in the main propulsion or steering system or involved in a collision; a brief description of the applicable incident.  (b) In the case of a position report required after becoming aware of: another vessel in difficulty; any obstruction to navigation; an aid to navigation that is not functioning properly or is damaged, out of position or missing; any ice or weather conditions that are hazardous to safe navigation and a pollutant in the water - then a brief description of the applicable matter.

### ECAREG Contacts

ECAREG reports shall be sent to:

St. John's Marine Communications and Traffic Services  
Centre  
Telephone: 709-772-3366  
Facsimile: 709-772-5369  
Email: [ECAREGSNF@INNAV.GC.CA](mailto:ECAREGSNF@INNAV.GC.CA)

Halifax Marine Communications and Traffic Services  
Centre  
Telephone: 902-426-4956  
Facsimile: 902-426-4483  
Email: [HLXECAREG1@INNAV.GC.CA](mailto:HLXECAREG1@INNAV.GC.CA)

Rivière-au-Renard Marine Communications and Traffic  
Services Centre  
Telephone: 418-269-3843  
Facsimile : 418-269-5514  
Email: [RARECAREG@INNAV.GC.CA](mailto:RARECAREG@INNAV.GC.CA)

## NORDREG Contacts

NORDREG reports shall be sent to:

Iqaluit Marine Communications and Traffic Services  
Centre  
Telephone: 1-867-979-5724  
Facsimile: 1-867-979-4264  
Telex (Telefax): 063-15529  
Telegraphic Identifier: NORDREG CDA  
Email: [IQANORDREG@INNAV.GC.CA](mailto:IQANORDREG@INNAV.GC.CA)

➡Operational from approximately mid-May to late December

Prescott Marine Communications and Traffic Services Centre  
Telephone: 1-613-925-4471  
Facsimile: 1-613-925-4519  
Email: [IQANORDREG@INNAV.GC.CA](mailto:IQANORDREG@INNAV.GC.CA)  
➡Operational from approximately late December to May

## Local Vessel Traffic Services Zone Reports

With respect to local Vessel Traffic Services zones as specified in the *Vessel Traffic Services Zone Regulations* the master of a ship shall report to a Marine Communications and Traffic Services officer in accordance with the following requirements.

### Information Required

Dependent upon the reporting requirement the following information may be required to be reported:

- (a) the name of the ship;
- (b) the radio call sign of the ship;
- (c) the position of the ship;
- (d) the estimated time that the ship will enter the Vessel Traffic Services zone;
- (e) the destination of the ship;
- (f) the estimated time that the ship will arrive at its destination;
- (g) whether any pollutant or dangerous goods cargo is carried on board the ship or any vessel or object being towed or pushed by the ship;
- (h) the estimated time that the ship will depart the berth; and
- (i) the estimated time at which the ship will next arrive at a location requiring a report.

### Entering a Zone

At least 15 minutes before a ship intends to enter a Vessel Traffic Services zone, a report shall be made specifying the information listed in (a), (b), (c), (d), (e), (f) and (g).

**Exception:** Ships already in possession of a valid Traffic Clearance issued by ECAREG, NORDREG or another Vessel Traffic Services zone are not required to provide this report.

### Arrival at a Calling-In-Point (CIP)

When a ship arrives at a CIP a report shall be made specifying the information listed in (a), (c) and (i).

### Arrival at Berth

As soon as practicable after a ship arrives at a berth, a report shall be made specifying the information listed in (a) and (c).



**Departure Manoeuvre**

Departure manoeuvre is defined as an operation during which a vessel leaves a berth and gets safely underway:

- Immediately before commencing a departure manoeuvre, a report shall be made specifying the information listed in (a), (b), (c), (e), (f), (g) and (h);
- Immediately after completing the departure manoeuvre, a report shall be made specifying the information listed in (a), (c) and (i).

**Manoeuvres**

A traffic clearance is required 15 minutes prior to commencing any manoeuvre such as:

- (i) a compass adjustment;
- (ii) the calibration and servicing of navigational aids;
- (iii) a sea trial;
- (iv) a dredging operation;
- (v) the laying, picking up and servicing of submarine cables; or any other manoeuvre that may be detrimental to safe navigation.

Prior to commencing a manoeuvre a report shall be made specifying the information listed in (a) and (c), plus a description of the intended manoeuvre.

As soon as practical after the manoeuvre is completed, a report describing the manoeuvre just completed shall be made.

**Variations**

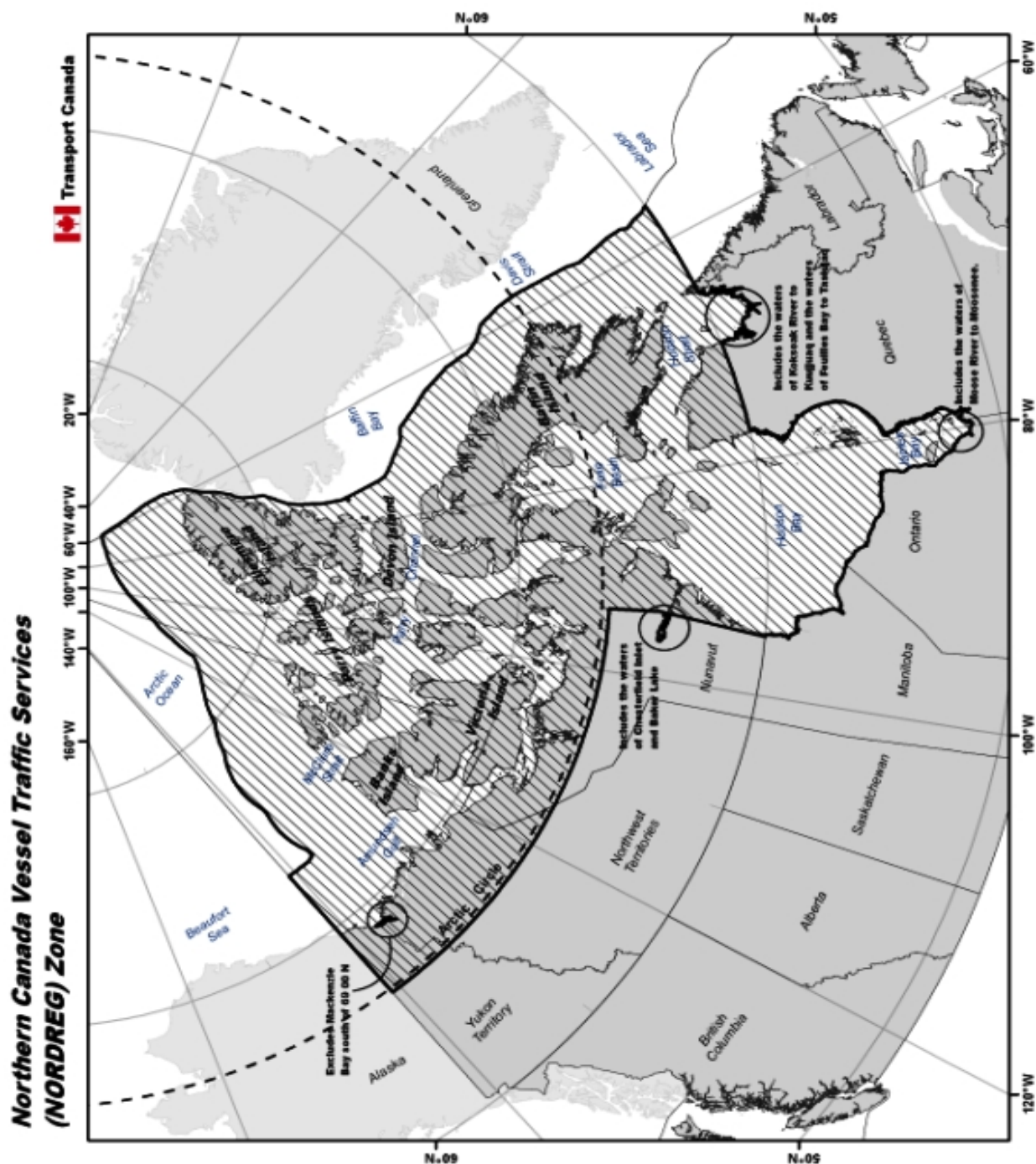
Ferries and other vessels on regularly scheduled voyages may be exempted from making routine reports. Formal variations to reporting procedures will be granted only where alternate arrangements to provide essential information are made and where the equivalent procedure or practice is deemed to be as safe as that required in the regulations.

Formal variations may be obtained by submitting a written request to the appropriate Regional Marine Communications and Traffic Services Superintendent, Canadian Coast Guard (see Part 1, page 10). In circumstances other than those described above, informal variations may be granted from time to time on a one time only basis by a Marine Communications and Traffic Services officer where the procedure or practice requested is deemed to be as safe as that required in the regulations.

**Pre-Arrival Information Report (PAIR)**

The Canadian *Marine Transportation Security Regulations* (MTSR) require a Pre-Arrival Information Report (PAIR) to be filed prior to entry into Canadian waters. Message format and contact information are found in Part 4.





## VESSEL TRAFFIC SERVICES ZONE SCHEDULES

### BAY OF FUNDY VESSEL TRAFFIC SERVICES ZONE

**NOTE:** Latitude and longitude positions given for the Bay of Fundy Vessel Traffic Services Zone are in NAD 83.

The Bay of Fundy Vessel Traffic Services zone comprises all Canadian waters contained within the area bounded by a line drawn in a 270° True direction from Chebogue Point in position 43 43 54.3N, 66 07 08.0W; thence through the following positions:

43°43'54.3"N 66°26'28"W, 43°58'45.3"N 66°27'43"W, 44°09'30.3"N 66°47'01"W, 44°11'50.3"N 66°49'31"W, 44°14'57.3"N 66°52'40"W, 44°17'21.2"N 66°55'08"W, 44°22'30.2"N 67°18'58.1"W, 44°29'50.2"N 67°15'08.1"W, 44°35'30.2"N 67°08'13"W, 44°42'00.2"N 66°58'22"W, 44°46'35.6"N 66°54'09.2"W  
thence along the Canada/USA boundary line to the shore at 45°11'30.5"N 67°17'00.6"W; thence following the Canadian shores of New Brunswick and Nova Scotia back to the beginning at Chebogue Point, including Fishing Zone 2.

#### SECTORS AND BOUNDARIES

Sector	Boundaries
1	The outer limit of the zone, and a line joining the following positions: 45°03'29.2"N 66°27'32.8"W, 44°53'14.6"N 66°36'00.1"W, 44°43'08.8"N 66°44'16.6"W, 44°36'38"N 65°56'28.7"W.
2	From the inner boundary of sector 1 eastward to a line joining 45°19'22.5"N 65°32'05.4"W; and 44°56'54.3"N 65°15'49.4"W, and including the waters of Saint John Harbour northward to a line joining Pleasant Point, 45°16'28.7"N 66°05'47.1"W; and Pokiok, 45°16'38.3"N 66°05'34.5"W.
3	All of the waters encompassed by the shores of New Brunswick and Nova Scotia east of a line joining 45°19'22.5"N 65°32'05.4"W; and 44°56'54.3"N 65°15'49.4"W; which is described as the eastern limit of sector 2

#### IDENTIFICATION AND FREQUENCIES

Sector	Identifier	Channel	Frequency (MHz)
1	"Fundy Traffic "	14	156.7
2	"Fundy Traffic"	12	156.6
3	"Fundy Traffic"	71	156.575

➡ **Note:** Fundy Traffic monitors navigation in the traffic zone using radar and Automatic Identification System (AIS).

#### CALLING-IN-POINTS

NUMBER	SECTOR	NAME	GENERAL DESCRIPTION AND CONDITIONS	GEOGRAPHIC DESCRIPTION
1A	1		Southwest entrance to traffic separation scheme Inward	A point at 44°10'40.3"N 66°48'16"W
1B	1		Southwest exit from traffic separation scheme Outward	A point at 44°16'09.3"N 66°53'54"W
2A	1		Inward traffic only	A point at 44°19'11.4"N 66°34'12.4"W
2B	1		Outward traffic only	A point at 44°23'16.9"N 66°39'28"W
3A	1		Inward traffic only	A point at 44°30'09.3"N 66°15'56.5"W
3B	1		Outward traffic only	A point at 44°32'25.8"N 66°20'46"W

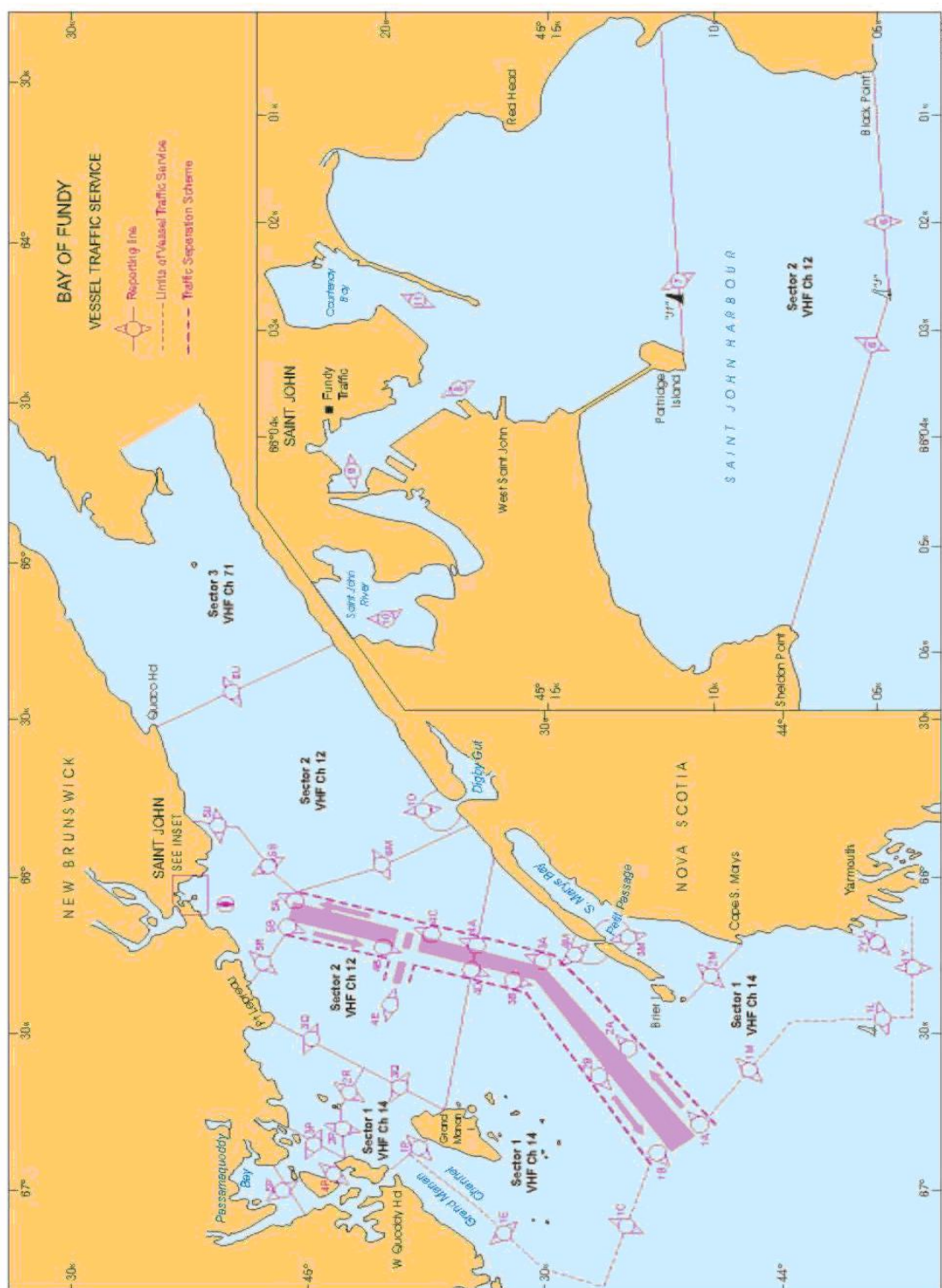
4A	1&2		Sector boundary – Inward traffic only	A point at 44°38'53.3"N 66°12'43.9"W
4B	2		Outward traffic only	A point at 44°50'17.8"N 66°14'19.5"W
4C	2		Inward traffic only	A point at 44°44'49.1"N 66°10'32.7"W
4D	1&2		Sector boundary – Outward traffic only	A point at 44°39'38.1"N 66°18'11.2"W
4E	2		Entrance to/exit from traffic separation scheme	A point at 44°49'38.3"N 66°23'40.2"W
5A	2		North exit from traffic separation scheme - Inward traffic only	A point at 45°01'45.3"N 66°04'08.4"W
5B	2		North entrance to traffic separation scheme –Outward traffic only	A point at 45°02'45.3"N 66°09'35.4"W
6	2	Saint John Harbour light and whistle Buoy J		A line joining 45°13'30.4"N 66°05'45.1"W; & 45°12'55.3"N 66°02'36.9"W; & 45°12'59.3"N 66°00'28.2"W
7	2	Partridge Island		A line joining 45°14'10.3"N 66°03'12.1"W; & 45°14'20.3"N 66°00'07.9"W
8	2			A point at 45°15'30.3"N 66°03'31.3"W
9	2			A point at 45°16'10.9"N 66°04'24.9"W
10	2			A point at 45°16'00.5"N 66°05'39.1"W
11	2			A point at 45°15'51.5"N 66°02'37.6"W
1C	1		Outer boundary – Sector 1	A line joining 44°17'21.2"N 66°55'08"W; & 44°22'30.2"N 67°18'58.1"W
1E	1		Outer boundary – Sector 1 Grand Manan Channel	A line joining 44°22'30.2"N 67°18'58.1"W; 44°29'50.2"N 67°15'08.1"W, 44°35'30.2"N 67°08'13"W; 44°42'00.2"N 66°58'22"W; 44°46'35.6"N 66°54'09.2"W; 44°47'39.1"N 66°53'07.5"W
1P	1		Grand Manan Channel	A line joining 44°45'35.7"N 66°50'01.9"W, & 44°45'37"N 66°50'03"W, and thence along the boundary between Fishing zones 2 & 4 to 44°47'39.1"N 66°53'07.5"W; thence, along the Canada/US boundary to 44°49'31.8"N 66°55'57.3"W, and along the extension of this boundary to 44°50'16.8"N 66°57'05.2"W
2P	1		Campobello Island to The Wolves	A line joining 44°55'57.4"N 66°53'55.3"W; & 44°56'09.8"N 66°44'04.3"W
2R	1		Southwest Wolf Island to sector boundary	A line joining 44°56'10.6"N 66°43'57.7"W; & 44°53'14.6"N 66°36'00.1"W

3Q	1&2		Sector Boundary	A line joining 44°43'08.8"N 66°44'16.6"W, 44°53'14.6"N 66°36'00.1"W, & 45°03'29.2"N 66°27'32.8"W
5R	2			A line joining 45°03'00.3"N 66°10'58"W; 45°03'36.3"N 66°12'22"W; & 45°07'06.7"N 66°20'50.8"W
3P	1			A line joining 45°02'19.6"N 66°48'31.1"W; & 44°55'57.4"N 66°53'55.3"W
4P	1		Head Harbour Passage	A line joining 44°56'48.5"N 66°58'14"W; & 44°55'40.6"N 66°56'37.4"W
5P	1		Passamaquoddy Bay	A line joining 45°04'17"N 66°55'12.6"W; & a position on the Canada/US boundary line at 45°01'36.7"N 67°03'56.6"W
1M	1		Outer boundary – Sector 1 southwest of Brier Island	A line joining 43°58'45.3"N 66°27'43"W; & 44°09'30.3"N 66°47'01"W
2M	1		Entrance to St. Mary's Bay	A line joining 44°05'12"N 66°12'42.8"W; & 44°12'08.3"N 66°23'09"W
3M	1		South end of Petit Passage	An arc centered on 44°22'21"N 66°12'12"W; Radius 1½ NM, and extending from shore to shore in the waters of St. Mary's Bay, connecting the following points: 44°23'31.3"N 66°10'53.6"W; 44°21'15.2"N 66°10'46.4"W; & 44°21'19.9"N 66°13'44.1"W.
4M	1		North end of Petit Passage	An arc centered on 44°24'14.5"N 66°12'55"W; Radius 1½ NM, and extending from shore to shore in the waters of the Bay of Fundy, connecting the following points: 44°23'02.8"N 66°14'10.8"W; 44°25'19.6"N 66°14'21.7"W; & 44°25'21.9"N 66°11'31.8"W.
6M	2			A line joining 44°39'56.6"N 65°49'57.2"W; & 45°01'30.3"N 66°02'46"W
5U	2			A line joining 45°08'02.3"N 65°50'56.9"W; & 45°15'24.3"N 65°48'39.9"W
1D	2		Entrance/Exit to Digby Gut	An arc centered on 44°42'38.8"N 65°46'23.9"W; Radius 2 NM and extending from shore to shore in the waters of the Bay of Fundy, connecting the following points: 44°41'03.7"N 65°48'06.6"W; 44°44'00.3"N 65°48'27.5"W; & 44°43'09.9"N 65°43'41.4"W.
5S	2			A line joining 45°01'30.3"N 66°02'46"W; & 45°08'02.3"N 65°50'56.9"W

8U	2&3		Boundary – Sectors 2 / 3	A line joining 45°19'22.5"N 65°32'05.4"W; & 44°56'54.3"N 65°15'49.4"W
1L	1		Outer boundary – Sector 1 west of Yarmouth, NS	A line joining 43°43'54.3"N 66°26'28"W; & 43°58'45.3"N 66°27'43"W
1Y	1		Outer boundary – Bay of Fundy Vessel Traffic Services zone near Yarmouth, NS	A line joining 43°43'54.3"N 66°07'08"W; & 43°43'54.3"N 66°26'28"W
2Y	1		Yarmouth Sound	An arc centered on 43°46'57.3"N 66°09'29.5"W; Radius 1½ NM, and extending from shore to shore in the waters off Yarmouth Sound, connecting the following points: 43°46'08.4"N 66°07'45.2"W; 43°46'29.7"N 66°11'27.7"W; & 43°48'24.5"N 66°10'00.3"W.

All times shall be given in Atlantic Standard Time or Atlantic Daylight Saving Time, whichever is in effect.







## HALIFAX HARBOUR AND APPROACHES VESSEL TRAFFIC SERVICES ZONE

**NOTE:** *Latitude and longitude positions given for Halifax Harbour and Approaches Vessel Traffic Services zone are in NAD 83*

The Halifax Vessel Traffic Services zone comprises all Canadian waters contained within an area bounded by a line connecting points from Point Pennant, 44°25'53.8"N 63°38'56.5"W; to position 44°17'41.3"N 63°35'09.6"W; to the Canadian territorial boundary at 44°14'02"N 63°30'50.3"W; thence, along Canada's territorial boundary to a point at 44°22'43.5"N 63°13'48.5"W, and thence, along a line to Petpeswick (Collies) Head, 44°40'43.3"N 63°09'44.2"W.

➡**Note:** Halifax Traffic monitors navigation in the traffic zone using radar and Automatic Identification System (AIS).

### SECTORS AND BOUNDARIES

Sector	Boundaries
1	The seaward boundary of the zone, and a line connecting points from Hartlen Point, 44°35'20.5"N 63°27'05.8"W; to position 44°30'13.8"N 63°28'46.7"W; thence, to Duncan Reef light buoy, H1, 44°29'36"N 63°30'34"W, and thence, to the shore west of Duncan Reef, 44°29'36"N 63°31'28.1"W.
2	The inner boundary of sector 1 and the shoreline northward and westward of the inner boundary of sector 1.

### IDENTIFICATION AND FREQUENCIES

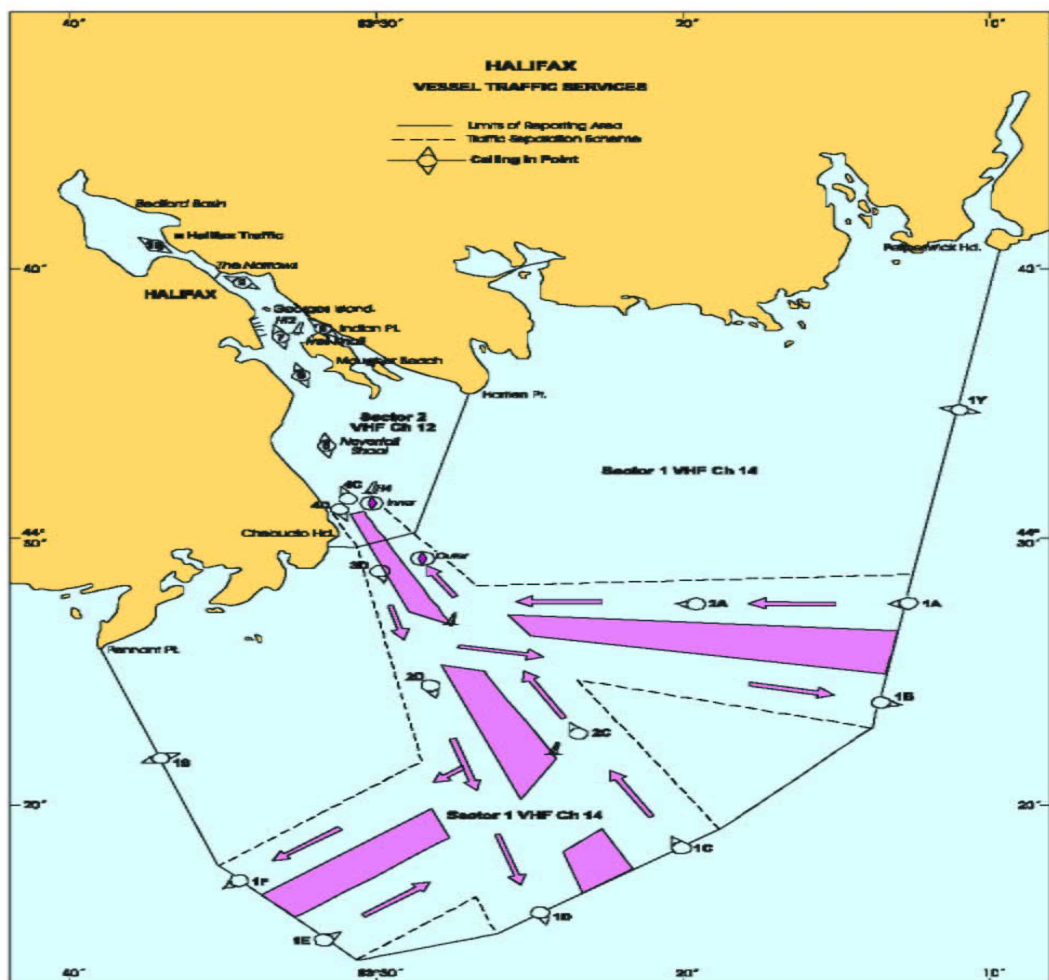
Sector	Identifier	Channel	Frequency (MHz)
1	"Halifax Traffic"	14	156.7
2	"Halifax Traffic"	12	156.6

### CALLING-IN-POINTS

NUMBER	SECTOR	NAME	GENERAL DESCRIPTION AND CONDITIONS	GEOGRAPHIC DESCRIPTION
1A	1		Boundary limit. Entrance to traffic lane	A point at 44°27'35.6"N 63°12'42.6"W
2A	1		Inward traffic only	A point at 44°27'39.3"N 63°19'37.6"W
1B	1		Boundary limit. Traffic lane exit	A point at 44°23'42.7"N 63°13'35.2"W
1C	1		Boundary limit. Entrance to traffic lane	A point at 44°18'13.2"N 63°19'57.3"W
2C	1		Inward traffic only	A point at 44°22'44.6"N 63°23'21"W
1D	1		Boundary limit. Traffic lane exit	A point at 44°15'46.2"N 63°24'26.4"W
2D	1		Outward traffic only	A point at 44°24'14"N 63°28'09.1"W
1E	1		Boundary limit. Entrance to traffic lane	A point at 44°14'47.8"N 63°31'44.4"W
1F	1		Boundary limit. Traffic lane exit	A point at 44°17'07"N 63°34'29"W
1S	1		Western limit of zone	➡A line joining 44°25'53.8" N 63°38'56.5" W; & 44°17'41.3" N 63°35'09.6" W
1Y	1		Eastern limit of zone	A line joining 44°40'43.3"N 63°09'44.2"W; & 44°28'42.3"N 63°12'27.6"W

3D	1		Outward traffic only	A point at 44°28'12.6"N 63°29'45.9"W
4C	2	Inner Automatic Inward	Vessels inward shall state whether passing east or west of Neverfail Shoal buoy.	A point at 44°31'31.9"N 63°30'31.6"W
4D	2	Inner Automatic Outward	Vessels shall state course and ETA to 3D	A point at 44°31'15.2"N 63°31'16.1"W
5	2	Neverfail Shoal		A line joining points at: 44°34'47.8"N 63°27'34"W; 44°33'23.2"N 63°31'51.9"W; & 44°32'59.3"N 63°33'04.6"W
6	2	Maugher Beach light	Vessels outward shall state if passing east or west of Neverfail Shoal buoy	A line joining 44°36'07.7"N 63°32'02.5"W; & 44°35'50.2"N 63°33'04.7"W
7	2	Ives Knoll	Vessels inward shall state whether passing east or west of Georges Island	A line joining light buoy "HT2", 44°37'50.2"N 63°32'44.7"W; & 44°37'33.9"N 63°33'34.7"W
8	2	Indian Point		A line joining 44°37'37.9"N 63°31'48.8"W; & 44°37'59.1"N 63°31'31.8"W
9	2	Ferry Track	Vessels outward shall state whether passing east or west of Georges Island	A line joining 44°39'47.3"N 63°34'09.9"W; & 44°39'23.7"N 63°34'38.4"W
10	2	Bedford Basin		A line joining 44°40'18.9"N 63°37'25.6"W; & 44°41'22.6"N 63°36'58.3"W

All times shall be given in Atlantic Standard Time or Atlantic Daylight Saving Time, whichever is in effect.



## NORTHUMBERLAND STRAIT VESSEL TRAFFIC SERVICES ZONE

### SECTOR AND BOUNDARIES

**NOTE:** *Latitude and longitude positions given for the Northumberland Strait Vessel Traffic Services zone are in NAD 83.*

Sector	Boundaries
1	All waters of Northumberland Strait extending west from a line drawn between Cape Cliff, NS, 45°52'42.3"N 63°27'59.3"W, to Rice Point, PEI, 46°07'47.9"N 63°13'18.3"W, to a line drawn between Fagan Point, N.B., 46°13'41.8"N 64°13'42"W, to Cape Egmont, PEI, 46° 24'04.8"N 64°08'05.3"W.

### IDENTIFICATION AND FREQUENCIES

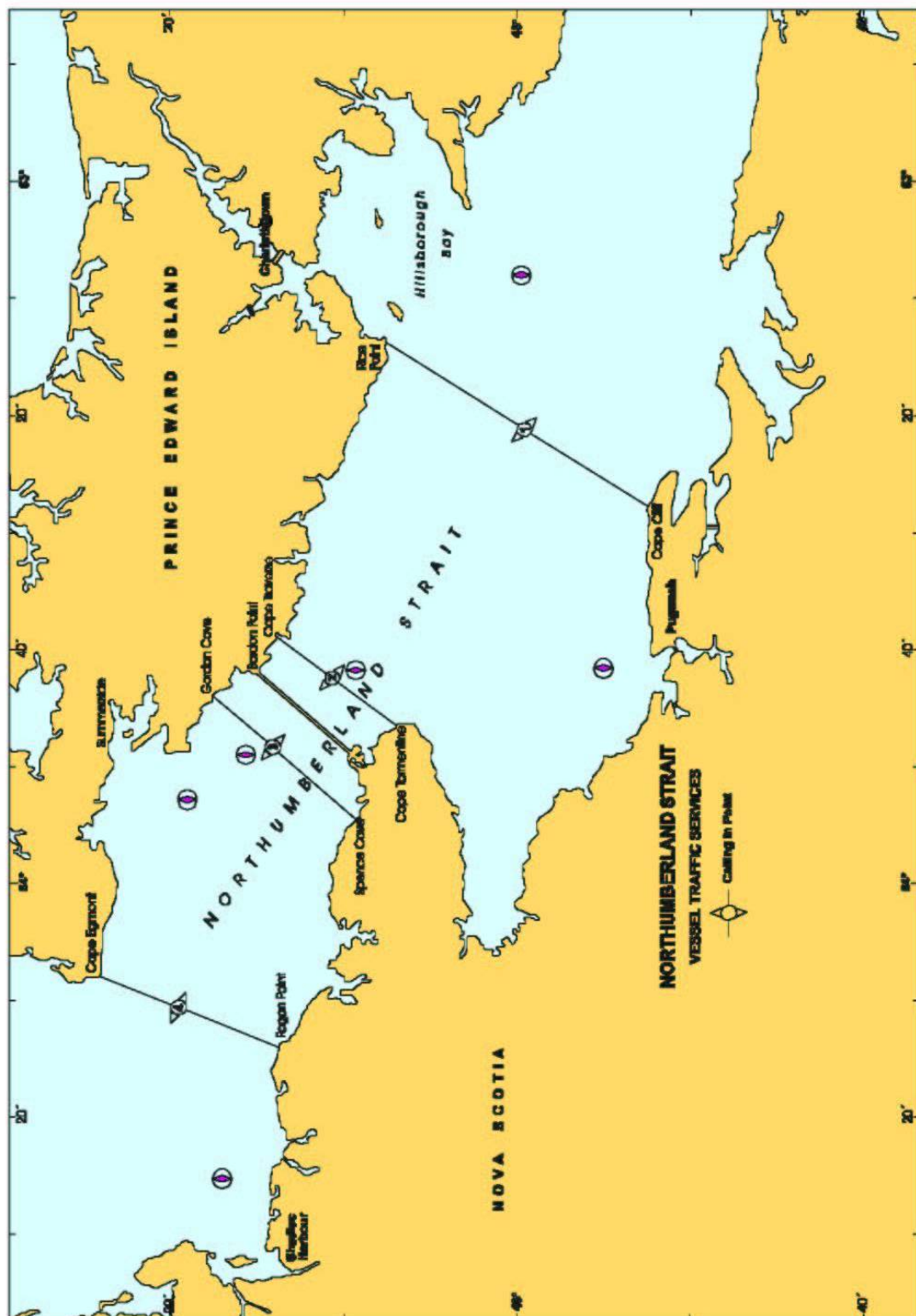
Sector	Identifier	Channel	Frequency (MHz)
1	"Northumberland Traffic"	12	156.6

### CALLING-IN-POINTS

NUMBER	SECTOR	NAME	GENERAL DESCRIPTION AND CONDITIONS	GEOGRAPHIC DESCRIPTION
1	1	Eastern Zone Boundary	A line joining: Cape Cliff, NS, & Rice Point, PEI	A line joining 45°52'42.3"N 63°27'59.3"W, & 46°07'47.9"N 63°13'18.3"W.
2	1	Eastern Approach Security Zone	A line joining : Cape Tormentine, NB & Cape Traverse PEI	A line joining 46°07'24.6"N 63°46'56.5"W, & 46°13'51.2"N 63°38'58"W.
3	1	Western Approach Security Zone	A line joining : Spence Cove, NB, & Gordon Cove, PEI	A line joining: 46°09'15.3"N 63°54'21.6"W, & 46°17'34.1"N 63°43'53.1"W.
4	1	Western Zone Boundary	A line joining: Fagan Point, NB, & Cape Egmont, PEI	A line joining: 46°13'41.8"N 64°13'42"W, & 46°24'04.8"N 64°08'05.3"W.

All times shall be given in Atlantic Standard Time or Atlantic Daylight Saving Time, whichever is in effect..

➡**Note:** Northumberland Traffic monitors navigation in the traffic zone using Automatic Identification System (AIS).



## PLACENTIA BAY VESSEL TRAFFIC SERVICES ZONE

Placentia Bay Vessel Traffic Services zone comprises all Canadian waters between a line bearing 180° True from Bass Point, 46°55'05"N 55°15'55"W; and a line bearing 180° True from Cape St. Mary's light, 46°49'22"N 54°11'49"W.

### SECTORS AND BOUNDARIES

Sector	Boundaries
1	The seaward limit of the zone and a line drawn in a 101° - 281° True direction through position 47°08'05N 54°30'00"W, and extended to the shore.
2	The inner limit of sector 1, and the shoreline north of the zone.

### IDENTIFICATION AND FREQUENCIES

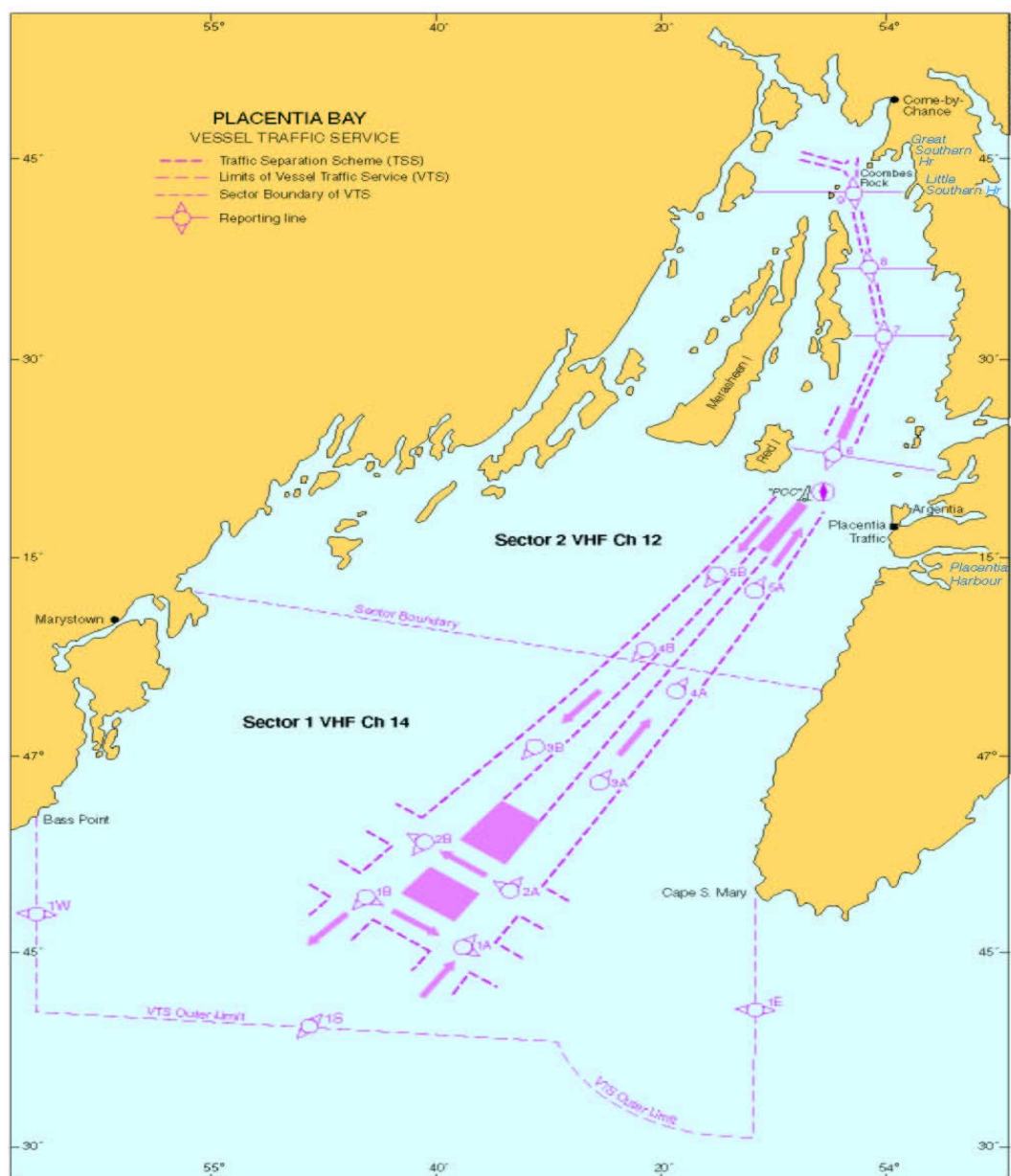
Sector	Identifier	Channel	Frequency (MHz)
1	"Placentia Traffic"	14	156.700
2	"Placentia Traffic"	12	156.600

### CALLING-IN-POINTS

NUMBER	SECTOR	NAME	GENERAL DESCRIPTION AND CONDITIONS	GEOGRAPHIC DESCRIPTION
1W	1			A line bearing 180° True from Bass Point, 46°55'05"N 55°15'55"W, to the limit of Canadian waters.
1S	1			A line following the Canadian Territorial Sea boundary from position 46°39'55"N 55°15'55"W, to position 46°31'02"N 54°11'49"W
1E	1			A line bearing 180° True from Cape St. Mary's light, 46°49'22"N 54°11'49"W, to the limit of Canadian waters.
1A	1		Inbound	A point at 46°45'25"N 54°37'44"W
2A	1		Inbound	A point at 46°49'46"N 54°33'30"W
3A	1		Inbound	A point at 46°57'52"N 54°25'41"W
4A	2		Inbound	A point at 47°03'21.1"N 54°20'17.9"W
5A	2		Inbound	A point at 47°12'22"N 54°12'08"W
1B	1		Outbound	A point at 46°49'18"N 54°46'15"W
2B	1		Outbound	A point at 46°53'20"N 54°40'56"W
3B	1		Outbound	A point at 47°00'44"N 54°31'18"W
4B	1		Outbound	A point at 47°08'07"N 54°21'38"W
5B	2		Outbound	A point at 47°13'54"N 54°15'24"W
6	2			A line 101° - 281° True through 47°23'01"N 54°05'13"W, and extended to the shore.
7	2			A line 090° - 270° True through 47°31'55"N 54°00'32"W, and extended to the shore.
8	2			A line 090° - 270° True through 47°37'01"N 54°01'53"W, and extended to the shore.
9	2			A line 090° - 270° True through 47°42'35"N 54°03'22"W, and extended to the shore.

All times shall be in Newfoundland Standard Time or Newfoundland Daylight Saving Time, whichever is in effect.

➔**Note:** Placentia Traffic monitors navigation in the traffic zone using radar and Automatic Identification System (AIS).



## PORT AUX BASQUES VESSEL TRAFFIC SERVICES ZONE

### SECTORS AND BOUNDARIES

Port aux Basques Vessel Traffic Services zone comprises all Canadian waters adjacent to the west and southwest coasts of Newfoundland between a line bearing 232° True from Cape Ray Light, 47°37'17.1"N 59°18'16.8"W and a line bearing 180° True from Rose Blanche Pt. Light, 47°35'57"N 58°41'30"W.

**NOTE:** *Latitude and longitude positions given for the Port Aux Basques Vessel Traffic Services zone are in NAD 83.*

Sector	Boundaries
1	From Cape Ray, at 47°37'04"N 59°18'05"W, along the boundary between Fishing zones 1 and 4, to position 47°29'56"N 59°32'20.4"W; thence along an arc centered on position 47°43'07"N 59°05'59.7"W, and connecting the following points: 47°28'18.1"N 59°30'21.7"W, 47°26'48.2"N 59°28'10"W, 47°25'27.1"N 59°25'46.3"W, 47°24'15.6"N 59°23'12.1"W, 47°23'14.4"N 59°20'28.6"W, 47°22'24"N 59°17'37.4"W, thence, along the Canadian Territorial Sea boundary to position 47°23'37.3"N 58°42'01.9"W; thence 000° True to Rose Blanche Point Light, at 47°36'06.5"N 58°41'40.4"W.

➡**Note:** Port aux Basques Traffic monitors navigation in the traffic zone using radar and Automatic Identification System (AIS).

### IDENTIFICATION AND FREQUENCIES

Sector	Identifier	Channel	Frequency (MHz)
1	"Port aux Basques Traffic"	11	156.55

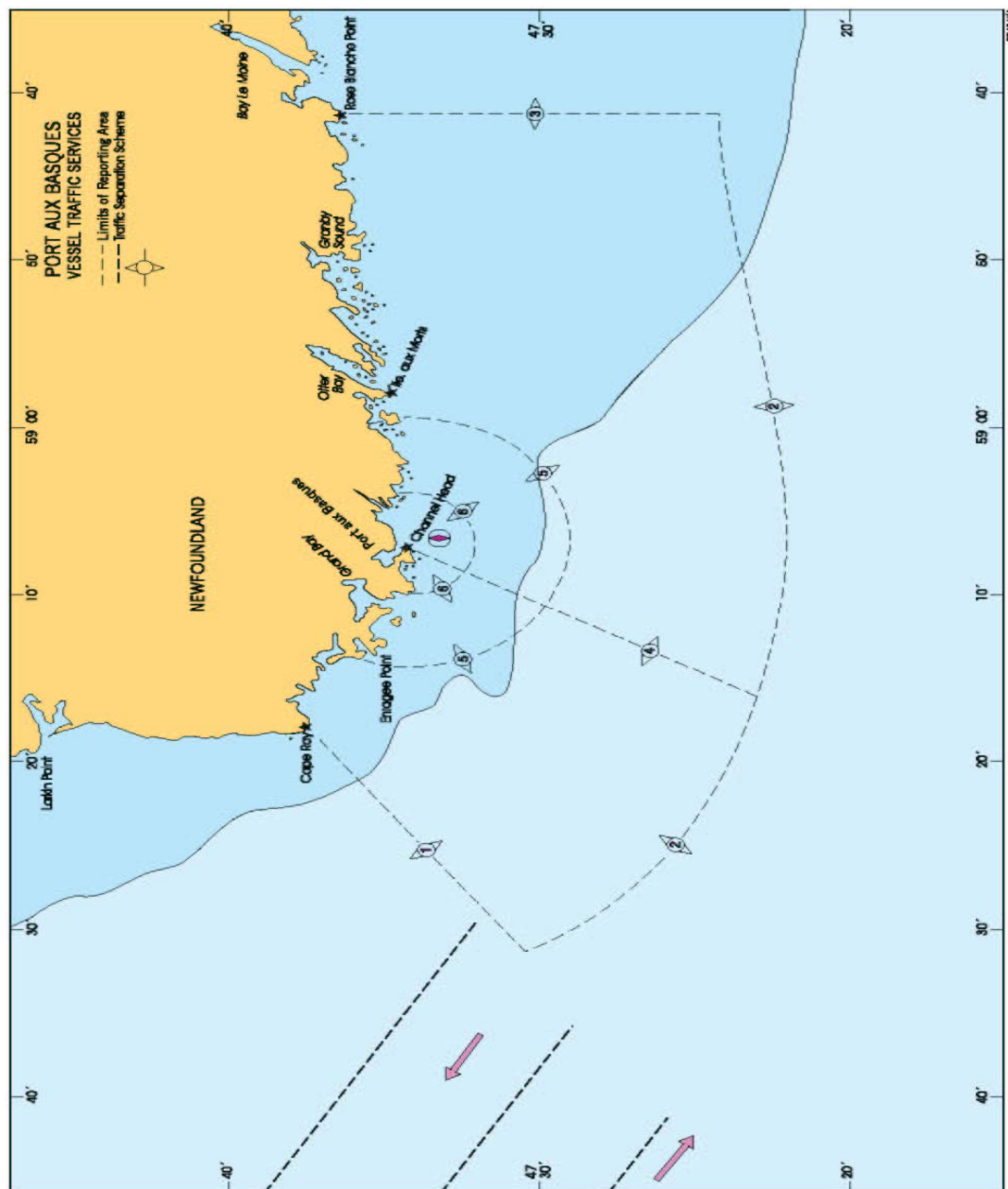
### CALLING-IN-POINTS

NUMBER	SECTOR	NAME	GENERAL DESCRIPTION AND CONDITIONS	GEOGRAPHIC DESCRIPTION
1	1	Cape Ray	Off Cape Ray	From Cape Ray, at 47°37'04"N 59°18'05"W, along the boundary between Fishing zones 1 and 4, to position 47°29'56"N 59°32'20.4"W.
2	1	Southern limit	Crossing the southern zone limit	An arc, centred on position 47°43'07"N 59°05'59.7"W, and connecting the following points: 47°29'56"N 59°32'20.4"W, 47°28'18.1"N 59°30'21.7"W, 47°26'48.2"N 59°28'10"W, 47°25'27.1"N 59°25'46.3"W, 47°24'15.6"N 59°23'12.1"W, 47°23'14.4"N 59°20'28.6"W, 47°22'24"N 59°17'37.4"W; - thence, along the Canadian Territorial Sea boundary to position 47°23'37.3"N 58°42'01.9"W.



3	1	Rose Blanche	Off Rose Blanche Point	A line bearing 180° True from Rose Blanche Point, at position 47°36'06.5"N 58°41'40.4"W, to the limit of Canadian waters at 47°23'37.3"N 58°42'01.9"W.
4	1	Ferry Track	Crossing the Port aux Basques, NL, North Sydney, NS, recommended ferry track	A line from position 47°33'00"N 59°07'27.4"W, to the southern limit of the zone at position 47°22'09"N 59°16'26.6"W.
5	1	5 NM off Channel Head	5 NM off Channel Head.	An arc centered on 47°33'57"N 59°07'24.5"W, Radius 5 NM, and extending from shore to shore, connecting the following points: 47°35'09.7"N 59°00'14.4"W, and 47°28'57"N 59°07'24.5"W, & 47°36'02.8"N 59°14'07"W.
6	1	2 NM off Channel Head	2 NM off Channel Head	An arc centered on 47°33'57"N 59°07'24.5"W, Radius 5 NM, and extending from shore to shore, connecting the following points: 47°34'27"N 59°04'32.8"W, 47°31'57"N 59°07'24.5"W, & 47°34'12.2"N 59°10'20.4"W.

All times shall be given in Newfoundland Standard Time or Newfoundland Daylight Saving Time, whichever is in effect.



## ST. JOHN'S VESSEL TRAFFIC SERVICES ZONE

### SECTOR AND BOUNDARIES

St. John's Vessel Traffic Services zone comprises all Canadian waters between a line bearing 090° True from Cape St. Francis Light, 47°48'32"N 52°47'09.6"W, and a line bearing 090° True from Bull Head Light 47°18'39"N 52°44'52"W, including the Port of St. John's.

**NOTE:** *Latitude and longitude positions given for the St. John's Vessel Traffic Services zone are in NAD 83.*

Sector	Boundaries
1	A line from Cape St. Francis, 47°48'31.5"N 52°47'09.6"W easterly to the Territorial Sea boundary at position 47°48'29.5"N 52°25'30.1"W; thence along the Territorial Sea boundary to position 47°18'36.3"N 52°25'14.8"W, thence, westerly to North Head, 47°18'38"N 52°44'46"W

### IDENTIFICATION AND FREQUENCIES

Sector	Identifier	Channel	Frequency (MHz)
1	"St. John's Traffic"	11	156.55

### CALLING-IN-POINTS

NUMBER	SECTOR	NAME	GEOGRAPHIC DESCRIPTION
1N	1	Cape St. Francis	A line from 47°48'31.5"N 52°47'09.6"W, to the limit of Canadian territorial waters at 47°48'29.5"N 52°25'30.1"W.
1E	1	Eastern Zone Limit	A line following the Canadian Territorial Sea Boundary from 47°48'29.5"N 52°25'30.1"W, to 47°18'36.3"N 52°25'14.8"W.
1S	1	North Head	A line from 47°18'38"N 52°44'46"W, to the limit of Canadian territorial waters at 47°18'36.3"N 52°25'14.8"W.
2N	1	Torbay Point	A line from 47°39'56.2"N 52°40'05"W, to the limit of Canadian territorial waters at 47°39'54.8"N 52°21'46.3"W.
2S	1	Motion Head	A line from 47°26'11"N 52°39'33.2"W, to the limit of Canadian territorial waters at 47°26'09.5"N 52°20'50.9"W.
3	1	2 NM off St. John's	An arc centred on Fort Amherst light, 47°33'47.9"N 52°40'49.6"W, and connecting points at 47°35'39.8"N 52°39'45.2"W; 47°33'35.4"N 52°37'53.2"W; and, 47°31'49.5"N 52°40'20.3"W.
4	1	Fort Amherst	A point on the range line at 47°33'56.2"N 52°40'48.2"W, abeam Fort Amherst light at 47°33'47.9"N 52°40'49.6"W.

All times shall be given in Newfoundland Standard Time or Newfoundland Daylight Saving Time, whichever is in effect.

➡**Note:** St. John's Traffic monitors navigation in the traffic zone using Automatic Identification System (AIS).



## ST. LAWRENCE WATERWAY VESSEL TRAFFIC SERVICES ZONE

The St. Lawrence Waterway Vessel Traffic Services zone comprises the waters of the St. Lawrence River extending upstream from the meridian of longitude 66°00'00" West to the upper limits of Montréal Harbour including the Saguenay River and other tributary rivers where vessels enter or leave the St. Lawrence River between the above limits, but excluding that portion of the St. Lawrence Seaway from St. Lambert lock to a position 650 metres downstream from the section of Jacques-Cartier bridge spanning the Seaway.

### SECTORS AND BOUNDARIES

Sector	Boundaries
1	The longitudinal meridian crossing the St. Lawrence River at 66°00'00"W, and a line at Pointe de Manicouagan joining positions 49°06'04.3"N 68°11'39.7"W; 48°42'00"N 67°52'00"W. (NAD 83)
2	The inner boundary of sector 1 and a line at Cap du Basque joining positions 48°00'06"N 69°45'48"W, 47°58'25"N 69°37'51"W, and 47°52'35"N 69°33'02"W; including the Saguenay River. (NAD 83)
3	The inner boundary of sector 2 and a line at Pointe St-Nicholas joining positions 46°42'07"N 71°26'47"W; and 46°43'38"N 71°27'33"W.
4	The inner boundary of sector 3 and a line at Tracy joining positions 46°00'48"N 73°09'49"W, and 46°01'00"N 73°11'00"W.
5	The inner boundary of sector 4 the upstream limit of the zone

### IDENTIFICATION AND FREQUENCIES

Sector	Identifier	Channel	Frequency (MHz)
1	"Escoumins Traffic"	14	156.7
2	"Escoumins Traffic"	9	156.45
3	"Québec Traffic"	12	156.6
4	"Québec Traffic"	13	156.65
5	"Montréal Traffic"	10	156.50

### CALLING-IN-POINTS

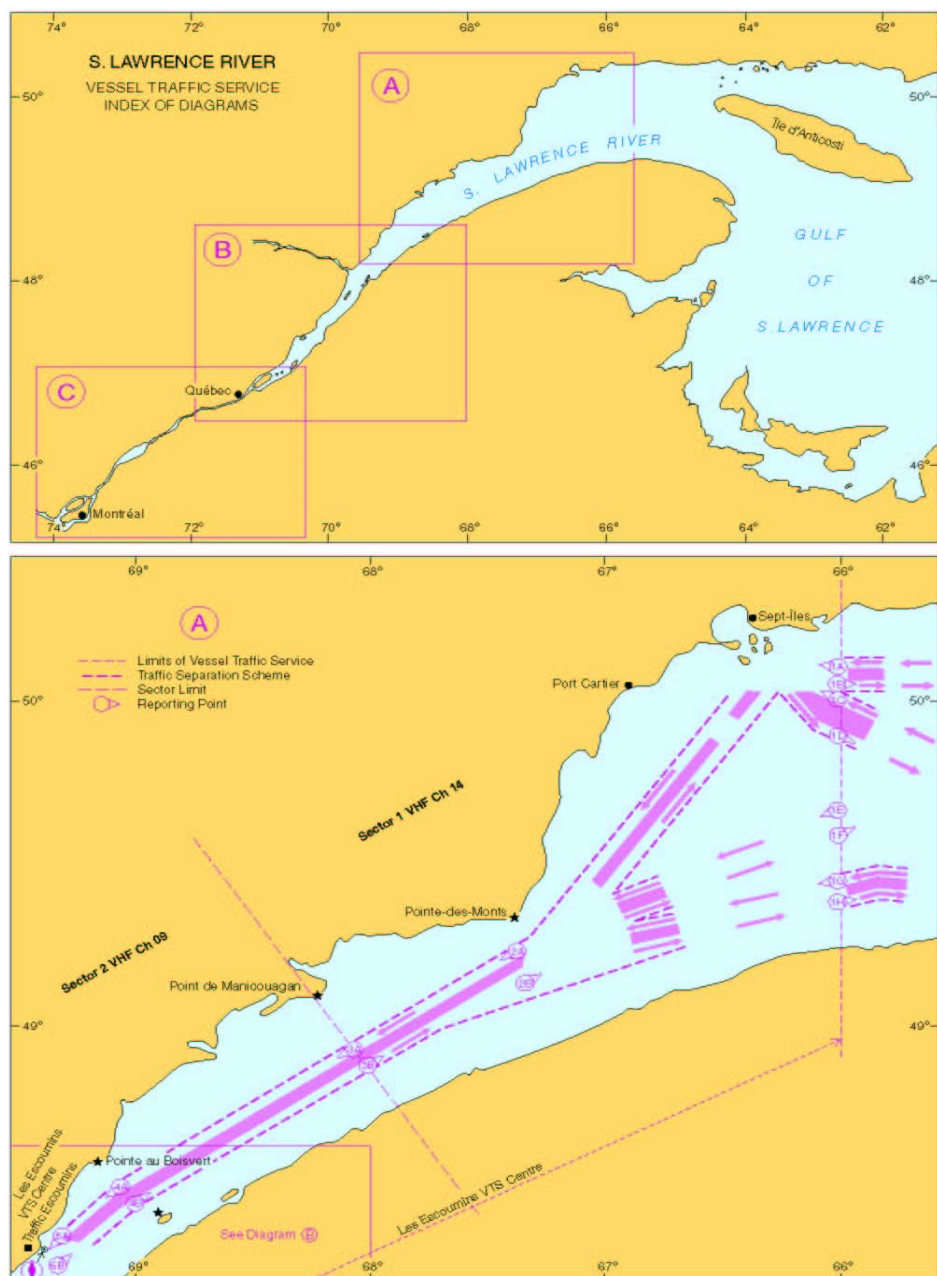
NUMBER	SECTOR	NAME	GENERAL DESCRIPTION AND CONDITIONS	GEOGRAPHIC DESCRIPTION
1	1		zone limit	Meridian Longitude 66°00'00"W
1A	1	66W	Eastern zone limit Inbound	A point at 50°05'30"N 66°00'00"W
1B	1	66W	Eastern zone limit Outbound	A point at 50°01'25"N 66°00'00W
1C	1	66W	Eastern zone limit Inbound	A point at 49°59'20"N 66°00'00W
1D	1	66W	Eastern zone limit Outbound	A point at 49°52'30"N 66°00'00W
1E	1	66W	Eastern zone limit Inbound	A point at 49°38'40"N 66°00'00"W
1F	1	66W	Eastern zone limit Outbound	A point at 49°34'25"N 66°00'00"W
1G	1	66W	Eastern zone limit Inbound	A point at 49°26'15"N 66°00'00"W
1H	1	66W	Eastern zone limit Outbound	A point at 49°22'00"N 66°00'00"W
2	1	Pointe des Monts		A line joining 49°19'00"N 67°22'30"W & 48°55'18"N 67°16'18"W
2A	1	Pointe des Monts	Upbound	A point at 49°13'40"N 67°21'20"W
2B	1	Pointe des Monts	Downbound	A point at 49°07'30"N 67°19'30"W
3	1/2	Pointe Manicouagan		A line joining 49°06'04.3"N 68°11'39.7"W and 48°42'00"N 67°52'00"W

3A	1/2	Pointe Manicouagan	Sector boundary Upbound	A point at 48°55'45"N 68°03'20"W
3B	1/2	Pointe Manicouagan	Sector boundary Downbound	A point at 48°52'20"N 68°00'00"W
4	2	Pointe au Boisvert		A line joining 48°33'55"N 69°08'32"W & 48°19'42"N 68°50'18"W
4A	2	Pointe au Boisvert	Upbound	A point at 48°30'00"N 69°03'00"W
4B	2	Pointe au Boisvert	Downbound	A point at 48°26'48"N 68°59'20"W
5A	2		➡Upbound	A point at 48°20'54"N 69°19'36"W
5	2	Les Escoumins		A line joining 48°19'05"N 69°24'53"W & 48°08'05"N 69°11'14"W
5B	2	Les Escoumins	Downbound only	A point at 48°15'00"N 69°20'00"W
6	2	Prince Shoal Light		A line joining 48°09'36"N 69°39'00"W; 48°06'30"N 69°36'53"W; & 48°05'38"N 69°34'01"W; and a line joining 48°04'10"N 69°33'19"W; & 48°03'04"N 69°25'29"W
S1	2	Île St Louis (Saguenay River)		A line joining 48°15'03"N 70°01'09"W; & 48°15'45"N 70°01'00"W
S2	2	Chicoutimi		A point at 48°25'20"N 70°52'50"W
7	2/3	Île Blanche	Sector boundary	A line joining 48°00'06"N 69°45'48"W; 47°58'25"N 69°37'51"W; & 47°52'35"N 69°33'02"W
8	3	Cap aux Oies St Roch		A line joining positions 47°29'18"N 70°13'55"W, and 47°18'42"N 70°10'42"W.
9	3	Sault au Cochon/ Beaujeu		A line joining positions 47°11'49"N 70°38'16"W ; et 47°05'12"N 70°25'30"W.
10	3	Saint Laurent		A line joining 46°51'33"N 71°00'16"W; & 46°50'09"N 70°59'15"W
11	3	Sainte Pétronille (Île d'Orléans)	Upbound only	A line joining 46°50'41.5"N 71°07'57"W; & 46°49'42"N 71°07'42"W
12	3	Québec		A line joining 46°48'38"N 71°12'12"W; & 46°48'27"N 71°11'18"W
13	3	Sillery	Downbound only	A line joining 46°46'19"N 71°14'37"W; & 46°45'50"N 71°13'50"W
14	3/4	St Nicolas	Sector boundary	A line joining 46°42'07"N 71°26'47"W; & 46°43'38"N 71°27'33"W
15	4	Ste Croix		A line joining 46°37'40"N 71°42'00"W; & 46°40'09"N 71°42'16"W
16	4	Grondines		A line joining 46°35'14"N 72°02'26"W; & 46°33'39"N 72°01'18"W
17	4	Batiscan		A line joining 46°30'02"N 72°14'47"W; & 46°29'51"N 72°12'27"W
18	4	Cap de la Madeleine	Upbound only	A line joining 46°21'58.1"N 72°29'47.4"W; & 46°21'47"N 72°28'04"W

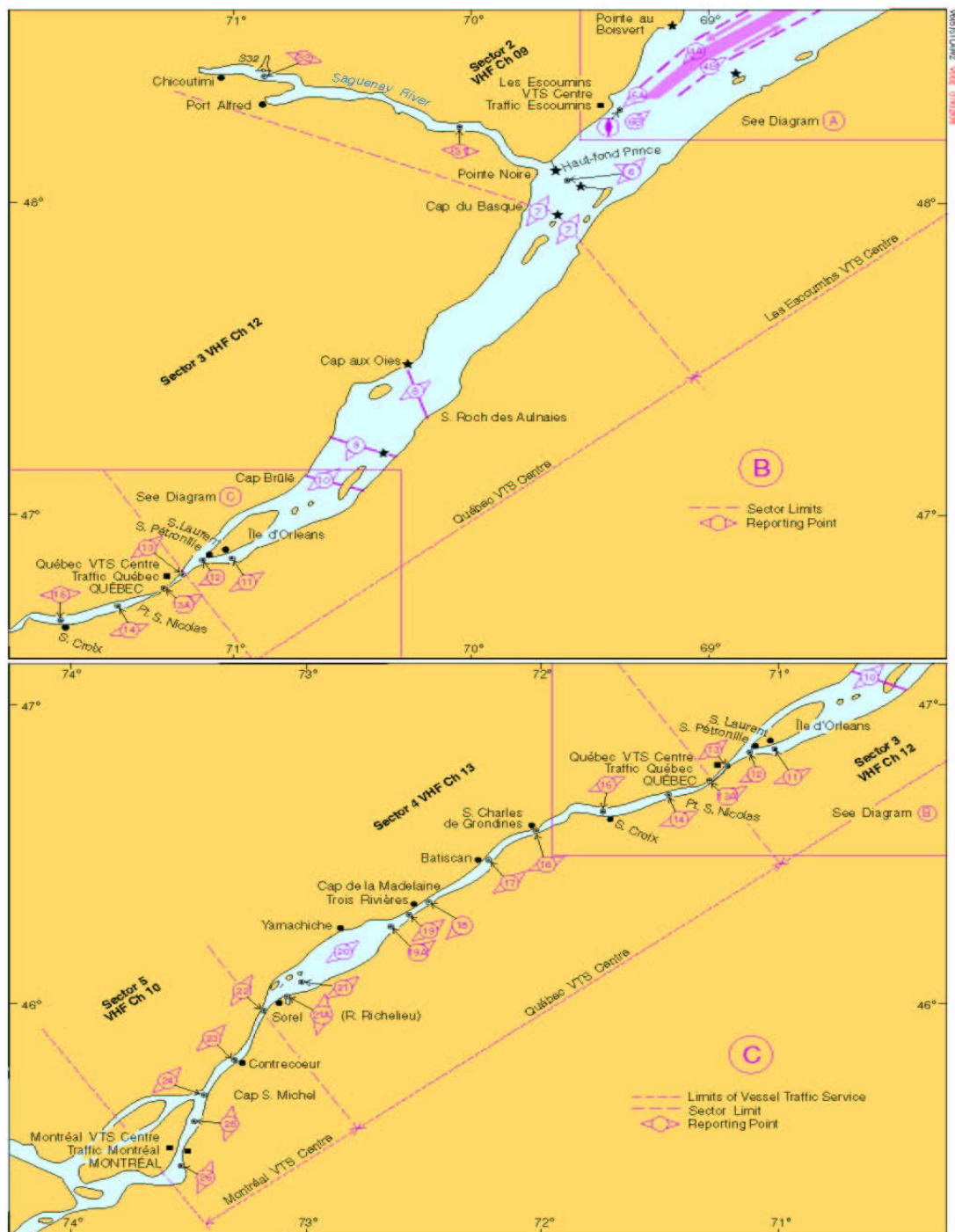
19	4	Pointe des Ormes		A line joining 46°18'14"N 72°34'39"W; & 46°17'24"N 72°34'15"W
20	4	Port Saint François	Downbound only	A line joining 46°16'21.5"N 72°37'10"W; & 46°16'50"N 72°37'48.5"W
21	4	Yamachiche		A line joining 46°12'53"N 72°49'11.5"W; & 46°12'28.9"N 72°48'55"W
22	4	Île des Barques		A line joining 46°05'24"N 73°00'43"W; & 46°05'08"N 73°00'13"W
23	4/5	Tracy	Sector boundary	A line joining 46°00'48"N 73°09'49 "W; & 46°01'00"N 73°11'00"W
24	5	Contre coeur		A line joining 45°49'55.3"N 73°16'55.7"W; & 45°50'15"N 73° 17'31"W
25	5	Cap St Michel		A line joining 45°44'05"N 73°26'40"W; & 45°43'30"N 73°25'15"W
26	5	Section 110		A point at 45°37'54"N 73°29'18"W
27	5	Calling in Point 2		A point at 45°31'36"N 73°31'39"W

All times shall be given in Eastern Standard Time or Eastern Daylight Saving Time, whichever is in effect.

➡**Note:** Les Escoumins, Québec and Montréal Traffic monitor navigation in the traffic zone using radar and Automatic Identification System (AIS).







These charts do not yet reflect the CIP changes.

## SARNIA VESSEL TRAFFIC SERVICES ZONE AND SARNIA VESSEL TRAFFIC SERVICES AREAS

### Sarnia Vessel Traffic Services Zone

Sarnia Vessel Traffic Services zone is comprised of the waters from Lake Huron Cut light buoy "11" to buoys 1 in the East and West Outer Channels in Lake Erie.

All vessels reporting in the area north of the Harbour Beach/Point Clark line will be answered by Thunder Bay Marine Communications and Traffic Services Centre on behalf of Sarnia Marine Communications and Traffic Services. The identifier "SARNIA TRAFFIC" may still be used.

NUMERICAL C-I-P's identify mandatory calling-in-points under the *St. Clair and Detroit River Navigation Safety Regulations*.

### Sarnia Vessel Traffic Services Areas

Sarnia Vessel Traffic Services Areas are comprised of Canadian waters in Lake Huron from Detour Reef light to Lake Huron Cut light buoy "11", and Canadian waters in Lake Erie from East and West Outer Channel buoys "1" to Long Point light. Ships in these areas are required to guard the International Distress, Safety and Calling Frequency 156.8 MHz (Channel 16).

ALPHABETICAL C-I-P's identify voluntary calling-in-points in the Sarnia Vessel Traffic Services Areas.

### Application

Within the St. Clair and Detroit Rivers, mariners should be guided by the traffic reporting provisions of the *St. Clair and Detroit River Navigational Safety Regulations*, which apply to all ships required by the *Ship Station Radio Regulations* to be fitted with a bridge-to-bridge radiotelephone.

### SECTORS AND BOUNDARIES

Sector	Boundaries
1	The waters of Lake Huron, the St. Clair River and Lake St. Clair from a line running 090° - 270° True through Detour Reef light, 45 56'54"N 83 54'12"W to a line joining Lake St. Clair light 42 27'54"N 82 45'18"W and Lake St. Clair light buoy "24", 42 27'53"N 82 45'03"W.
2	The waters of Lake St. Clair, the Detroit River and Lake Erie from a line joining Lake St. Clair light, 42 27'54"N 82 45'18"W and Lake St. Clair light buoy "24", 42 27'53"N 82 45'03"W to a line running 152° True from Long Point light 42 32'55"N 80 02'57.4"W in Lake Erie.

### IDENTIFICATION AND FREQUENCIES

Sector	Identifier	Channel	Frequency (MHz)
1	"Sarnia Traffic"	11	156.55
2	"Sarnia Traffic"	12	156.6

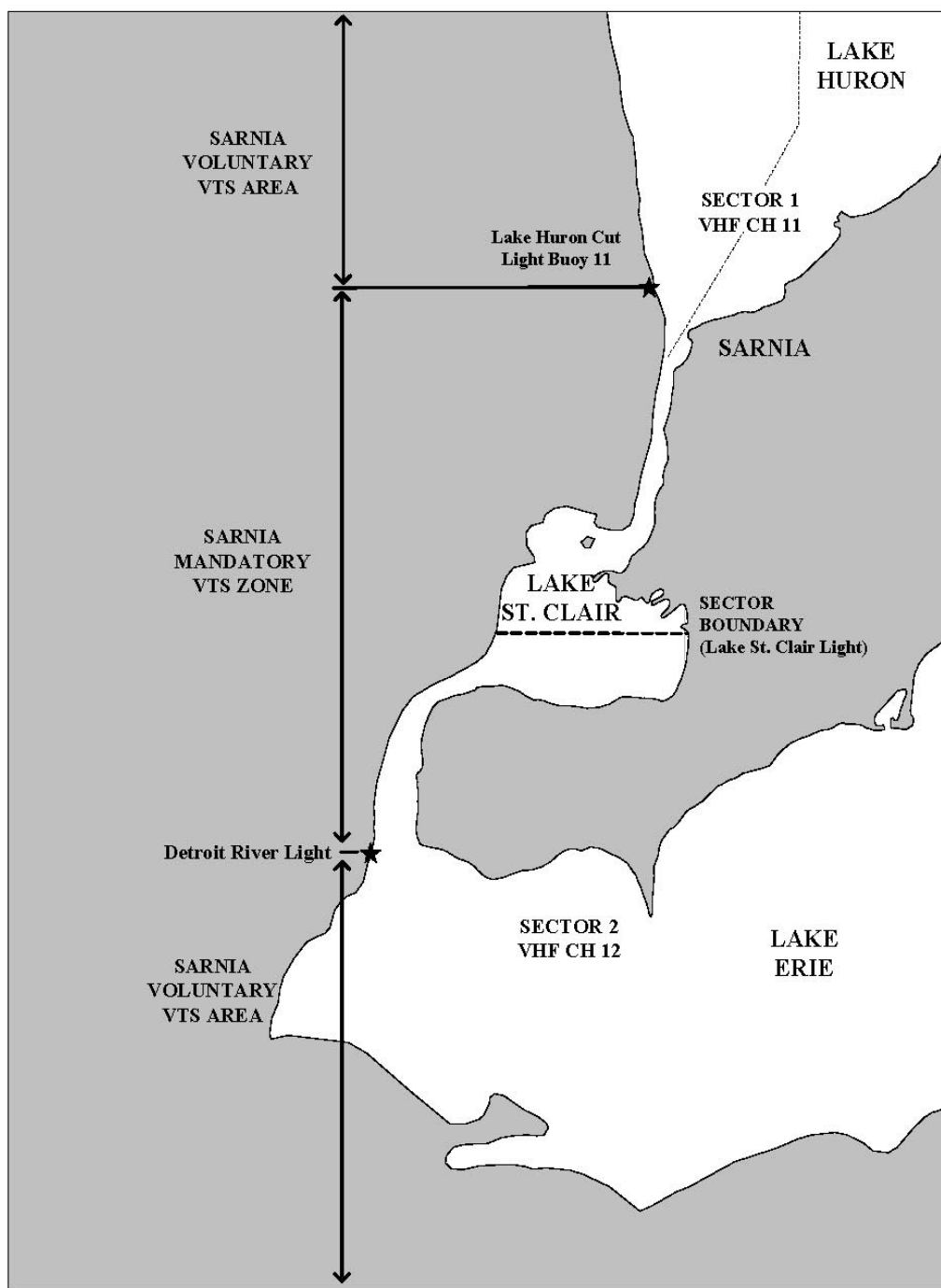
➡**Note:** Sarnia Traffic monitors navigation in the traffic zone using Automatic Identification System (AIS).

**CALLING-IN-POINTS**

NUMBER	SECTOR	NAME	GENERAL DESCRIPTION AND CONDITIONS	GEOGRAPHIC DESCRIPTION
A	1	Detour	At Detour Reef light for vessels transiting St. Mary's River.	For vessels transiting St. Mary's River, a line running 090°- 270° True through 45 56'54"N 83 54'12"W
		Cordwood Point	At Cordwood Point light buoy "1" for vessels transiting to or from Lake Michigan.	For vessels transiting to or from Lake Michigan, a line joining 45 56'54"N 83 54'12"W & 45 40'53"N 84 18'05"W
			These vessels should specify Cordwood Point.	
B	1	Great Duck Island	A line joining Great Duck Island light and Presque Isle light	A line running from 45 38'30"N 82 57'48"W; to 45 21'24"N 83 29'30"W
C	1	Cove Island	At Cove Island light for vessels enroute to or from Georgian Bay	A line running 000° True from 45 19'37"N 81 44'07"W Call Thunder Bay Marine Communications and Traffic Services on Ch 26
D	1	Harbor Beach Point Clark	Mariners should specify Point Clark when following Georgian Bay courses and Harbor Beach at all other times.	A line joining 43 50'42"N 82 37'54"W; to 44 04'22.1"N 81 45'25.6"W
1	1	30 minutes north of Lake Huron Cut light buoy "11"	30 minutes north of Lake Huron Cut lighted buoys "11" and "12" (downbound only)	
E	1	Lake Huron Cut light buoy "11"	Lake Huron Cut Light buoy "11"	A line running 090°- 270° True through 43 05'25"N 82 24'38"W
2	1	Lake Huron Cut light "7"	Lake Huron Cut light "7" (downbound only)	A line running 090°-270° True through 43 03'36"N 82 25'06"W
3	1	Lake Huron Cut light buoy "1"	At Lake Huron Cut light buoy "1" (upbound only)	A line running 090°-270° True through 43 00'37"N 82 24'53"W
4	1	Black River	At St. Clair/ Black River Junction light	On north shore of river entrance. 42 58'24"N 82 25'12"W
5	1	Stag Island Upper light	At Stag Island Upper light (upbound only)	A line running 090° True from 42 54'25"N 82 27'57.5"W
6	1	Salt Dock	Marine City Salt Dock light	A line running 110° True from 42 41'16.8"N 82 30'20.5"W
7	1	Light 23	Grande Pointe light "23" (downbound only)	A line joining 42 35'07"N 82 33'23.5"W; and 42 35'04"N 82 33'10"W
8	1	Light 2	A line joining St. Clair Flats Canal light "2" and St. Clair Cutoff Pier light "X32/1" (upbound only)	A line running from 42 31'06"N 82 41'12"W; to 42 30'54"N 82 41'08"W
9	1	Lake St. Clair light	Lake St. Clair light	A line running from 42 27'54"N 82 45'18"W; to 42 27'53"N 82 45'03"W

10	2	Station Belle Isle	Belle Isle light (downbound only)	A line running 150° True from 42 20'24"N 82 57'36"W
10A	2	Rouge River	20 minutes before entering or leaving the Rouge River or Shortcut Canal.	
10B	2	Rouge River	Immediately before entering or leaving the Rouge River or Shortcut Canal	A line running from 42 16'26"N 83 06'36"W; to 42 16'31"N 83 06'33.5"W
11	2	Grassy Island light	Grassy Island light	A line running 090°-270° True through 42 13'30"N 83 08'00"W
12	2	Detroit River light	Detroit River light	A line running 090°-270° True through 42 00'01"N 83 08'30"W
F	2	Southeast Shoal	At Southeast Shoal light	A line from 41 54'33"N 82 30'36"W; to 41 49'35"N 82 27'47"W, thence to 41 32'12"N 82 42'42"W
G	2	Long Point	A line joining Long Point light to the south shore of Lake Erie	A line running 152° True from 42 32'55"N 80 02'58"W; to 42 14'35"N 79 49'44"W

All times shall be given in Eastern Standard Time or Eastern Daylight Saving Time, whichever is in effect.



**SARNIA VTS ZONE & AREAS**

## FREQUENCY GUARD GREAT LAKES BASIN

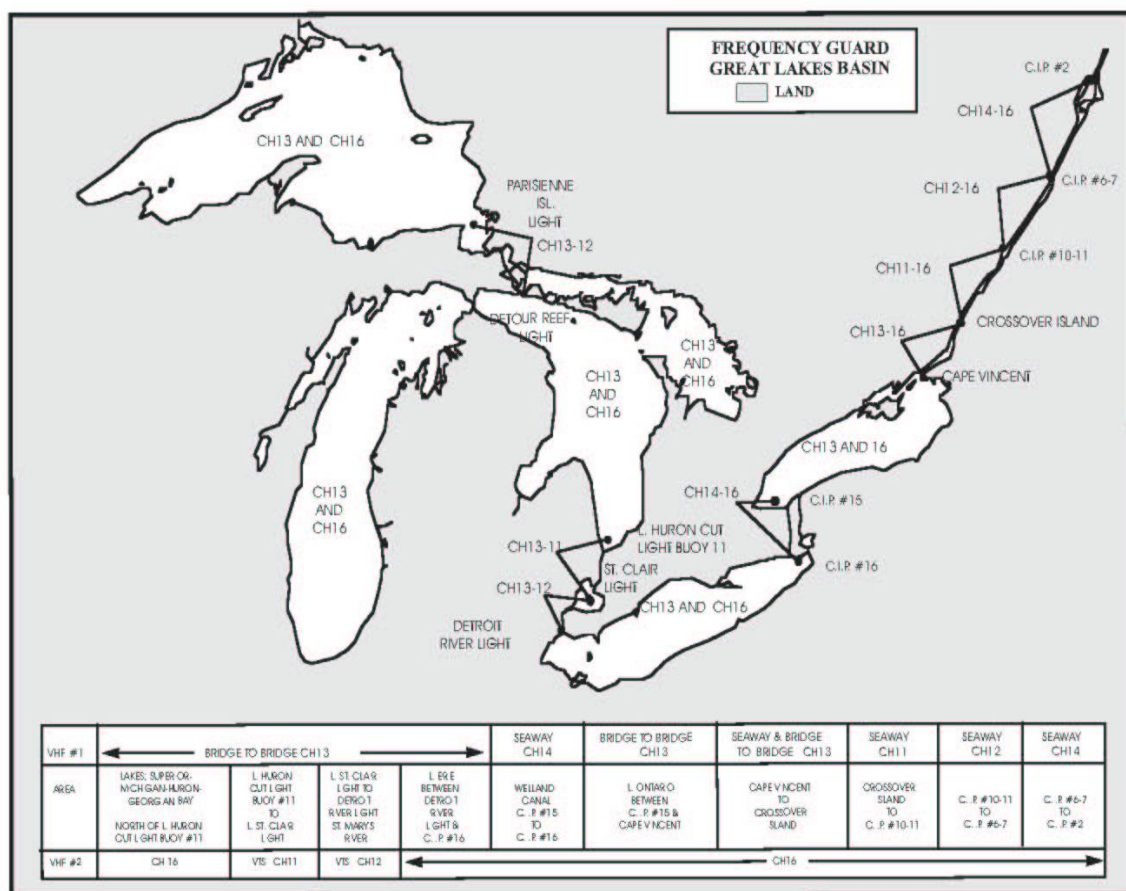
Amendments to the VHF Practices and Procedures regulations which make Channel 13 (156.650 MHz) the dedicated Bridge-to-Bridge frequency in the Great Lakes Basin became effective February 1, 1989. At that time the VHF listening watch requirements for vessels upbound/downbound in these waters were established as follows:

	LOCATION	MONITOR	REMARKS
A)	CIP #2 to CIP #6-7 (Seaway Beauharnois)	Seaway Ch 14 and Ch 16	Ch 13 Bridge-to-Bridge exemption through this area.
B)	CIP # 6-7 to CIP #10-11 (Seaway Eisenhower)	Seaway Ch 12 and Ch 16	Ch 13 Bridge-to-Bridge exemption through this area.
C)	CIP # 10-11 to Crossover Island (Seaway Iroquois)	Seaway Ch 11 and Ch 16	Ch 13 Bridge-to-Bridge exemption through this area.
D)	Crossover Island to Cape Vincent (Seaway Clayton)	Bridge Ch 13 and Ch 16	Ch 13 serves as Bridge in this area. Seaway Clayton on Ch 12 through this area.
E)	Cape Vincent to mid Lake Ontario (Seaway Sodus)	Bridge Ch 13 and Ch 16	Seaway Sodus also on Ch 12 through this area.
F)	Mid Lake Ontario to CIP #15 (Seaway Newcastle)	Bridge Ch 13 and Ch 16	Seaway Newcastle operates on Ch 11 through this area.
G)	CIP #15 to CIP #16 (Welland Canal)	Seaway Ch 14 and Ch 16	CH 13 Bridge-to-Bridge exemption through this area.
H)	CIP #16 to Long Point Lake Erie (Seaway Long Point)	Bridge Ch 13 and Ch 16	Seaway Long Point on Ch 11.
I)	Long Point to Detroit River Light (Lake Erie)	Bridge Ch 13 and Ch 16	Sarnia Marine Communications and Traffic Services Centre operates on Ch 12.
J)	Detroit River Light to Lake St. Clair Light	Bridge Ch 13 and Marine Communications and Traffic Services Centre Ch 12	Sarnia Marine Communications and Traffic Services Centre will monitor Ch 16 on behalf of vessels.
K)	Lake St. Clair Light to Lake Huron Cut Light Buoy "11"	Bridge Ch 13 and Marine Communications and Traffic Services Centre Ch 11	Sarnia Marine Communications and Traffic Services Centre will monitor Ch 16 on behalf of vessels.
L)	Lake Huron Cut Light Buoy "11" to Detour Reef Light including Cove Island (Lake Huron and Georgian Bay)	Bridge Ch 13 and Ch 16	Thunder Bay and Sarnia Marine Communications and Traffic Services Centres operate on Ch 11 Lake Huron.
M)	Detour Reef Light to Île Parisienne Light (St. Mary's River)	Bridge Ch 13 and Ch 12	USCG Sault Ste Marie (SOO Traffic) will monitor Ch 16 on behalf of vessels.
N)	Île Parisienne Light through Lakes Superior/Michigan	Bridge Ch 13 and Ch 16	

### Notes

1. Portable VHF equipment may be accepted to meet the Ch 13 requirement when a ship is required by the Ship Station Radio Regulations to fit only one radiotelephone installation.
2. In summary, vessels shall monitor Ch 13 Bridge-to-Bridge continuously except in the exempted areas of St. Lambert to Crossover Island and in the Welland Canal where the appropriate Seaway channel must be guarded.

3. Channel 16 shall also be guarded throughout the Great Lakes Basin except from Detroit River Light to Lake Huron Cut Lighted Buoy "11" (Sarnia Vessel Traffic Services zone) and from Detour Reef Light to Île Parisienne Light (St. Mary's River). Since vessels will be guarding Ch 13 and the Vessel Traffic Services frequency through the zones, watch on Ch 16 will be maintained by Sarnia Marine Communications and Traffic Services for the Sarnia Vessel Traffic Services zone and by USCG Sault Control for the Detour Reef Light to Île Parisienne zone on behalf of vessels in transit.
4. **While the Ch 13 Bridge-to-Bridge guard is to be maintained continuously (except in exempted waters) the watch on Ch 16 may be relinquished when reporting at a CIP or exchanging traffic with any station of the maritime mobile service on an appropriate working frequency.**
5. When wishing to contact a Harbour, Bridge or Pilotage authority initial contact should be made on the appropriate working channel as directed.
6. Information contained in the chart and narrative is based on the latest information at time of printing.



## STRAIT OF BELLE ISLE VOLUNTARY VESSEL TRAFFIC SERVICES ZONE

**NOTE:** *Latitude and longitude positions given for the Strait of Belle Isle Voluntary Vessel Traffic Services zone are in NAD 83.*

The Canadian Coast Guard has established a voluntary Vessel Traffic Services zone in the Strait of Belle Isle, Newfoundland.

The Belle Isle Vessel Traffic Services zone includes all waters within the Strait of Belle Isle bounded by a line extending from Double Island, Labrador, 52°15'30"N 55°32'55"W, to Northeast Ledge, Belle Isle, 52°02'11.8"N 55°16'05.6"W, to White Islands, Newfoundland, 51°34'51"N 55°21'05"W; thence, westerly to Partridge Point Light, Newfoundland, 51°34'52.7"N 55°25'16.1"W; thence, westerly along the south shore of the Strait of Belle Isle to Seal Islands, Newfoundland, 51°17'16.2"N 56°45'51.8"W; thence, along a line to Forteau Light, Labrador, 51°28'10.2"N 56°57'12.1"W; and thence, easterly along the north shore of the Strait of Belle Isle to Double Island, Labrador, 52°15'30"N 55°32'55"W.

Vessels required to comply with the Vessel Traffic Services zones Regulations are requested to participate in the system. Fishing vessels are encouraged to maintain a listening watch or contact "*Belle Isle Traffic*" on Channel 14 VHF to obtain up-to-date information on vessels reported transiting the Belle Isle Vessel Traffic Services zone.

### SECTOR AND BOUNDARIES

Sector	Boundaries
1	<p><b>Eastern Boundary:</b> A line extending from Double Island, Labrador, 52 15'30"N 55 32'55"W, to Northeast Ledge, Belle Isle, 52 02'11.8"N 55 16'05.6"W, to White Islands, Newfoundland, 51 34'51"N 55 21'05"W; thence, westerly to Partridge Point Light, Newfoundland, 51 34'52.7"N 55 25'16.1"W.</p> <p><b>Western Boundary:</b> A line joining Seal Island, Newfoundland, 51 17'16.2"N 56 45'51.8"W, to Forteau Light, Labrador, 51 28'10.2"N 56 57'12.1"W.</p>

### IDENTIFICATION AND FREQUENCIES

Sector	Identifier	Channel	Frequency (MHz)
1	<i>"Belle Isle Traffic"</i>	14	156.7

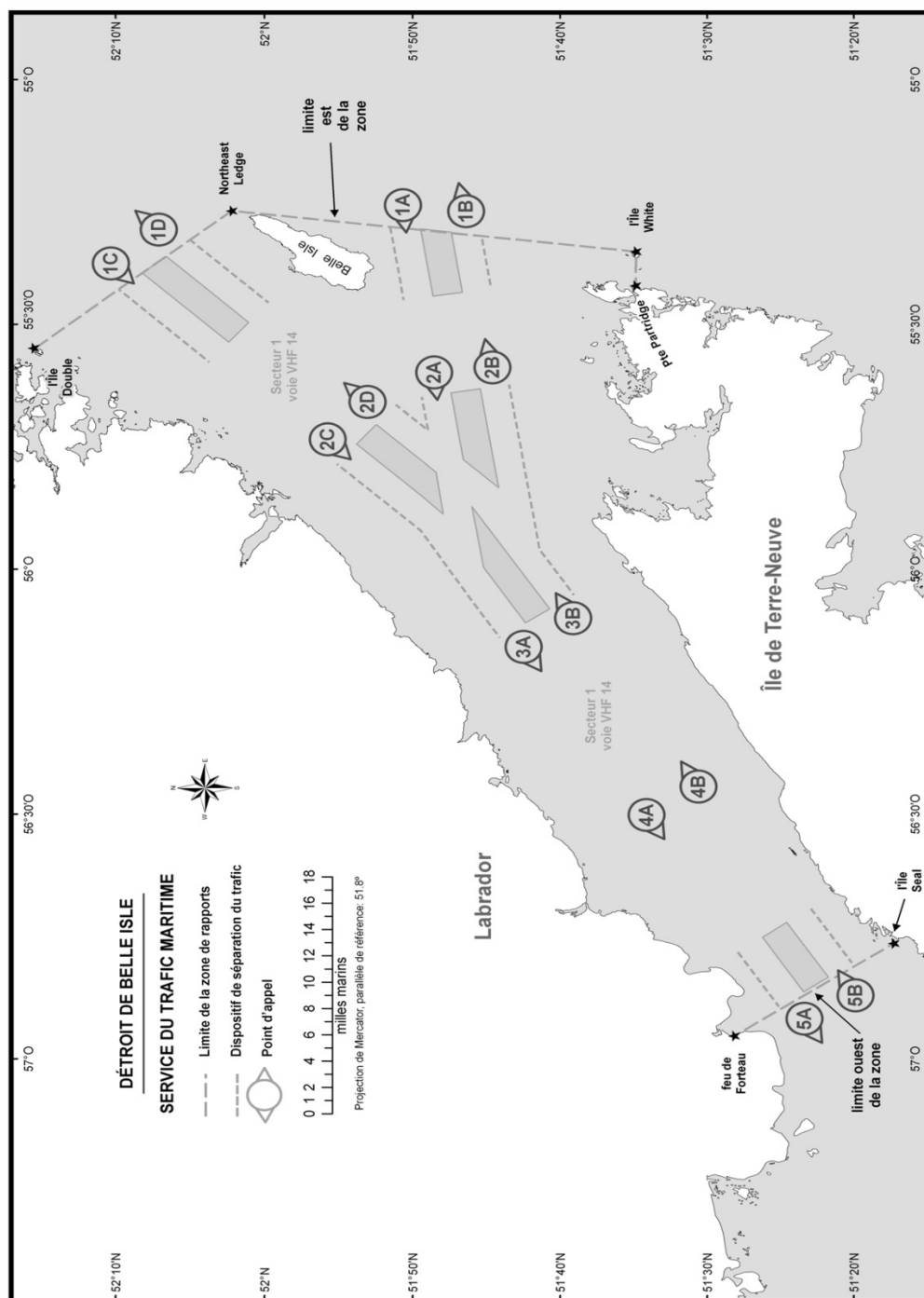
### CALLING-IN POINTS

NUMBER	SECTOR	GENERAL DESCRIPTION AND CONDITIONS	GEOGRAPHIC DESCRIPTION
1A	1	Inbound (Belle Isle South Route)	A point at 51 50'29.2"N 55 18'14.6"W
2A	1	Inbound (Belle Isle South Route)	A point at 51 48'23.8"N 55 38'36.3"W
3A	1	Inbound	A point at 51 43'13.8"N 56 07'28.2"W
4A	1	Inbound	A point at 51 33'50.9"N 56 29'59.4"W
5A	1	Inbound	A point at 51 24'07.6"N 56 52'59"W
1B	1	Outbound (Belle Isle South Route)	A point at 51 46'21.4"N 55 18'59.8"W
2B	1	Outbound (Belle Isle South Route)	A point at 51 44'27.1"N 55 37'32.3"W
3B	1	Outbound	A point at 51 39'53.9"N 56 03'54.3"W
4B	1	Outbound	A point at 51 30'30.7"N 56 26'27.1"W
5B	1	Outbound	A point at 51 20 46.4N, 56 49 29.8W
1C	1	Inbound (Belle Isle North Route)	A point at 52 09 00.4N, 55 24 40.7W
2C	1	Inbound (Belle Isle North Route)	A point at 51 54 27.4N, 55 45 53.0W
1D	1	Outbound (Belle Isle North Route)	A point at 52 05 48.0N, 55 20 37.7W
2D	1	Outbound (Belle Isle North Route)	A point at 51 51 47.3N, 55 41 04.1W

All times shall be given in Newfoundland Standard Time or Newfoundland Daylight Saving Time, whichever is in effect.

➡**Note:** Belle Isle Traffic monitors navigation in the traffic zone using Automatic Identification System (AIS).





## STRAIT OF CANSO AND EASTERN APPROACHES VESSEL TRAFFIC SERVICES ZONE

### SECTOR AND BOUNDARIES

**NOTE:** Latitude and longitude positions given for the Strait of Canso and Eastern Approaches Vessel Traffic Services zone are in NAD 83.

Sector	Boundary
1	All Canadian waters south of the Canso canal north lock gate, 45°38'58.2"N 61°24'57.3"W, contained within the area bounded by a line connecting points 45°38'23.3"N 60°29'15.3"W, 45°25'48.8"N 60°29'34"W, and the Canadian territorial boundary at 45°24'09.3"N 60°29'34.3"W; thence, along Canada's territorial boundary to a point at 45°18'19.8"N 60°35'03.7"W; and thence, along a line to Cape Canso at 45°18'21.8"N 60°56'16.3"W.

➡**Note:** Canso Traffic monitors navigation in the traffic zone using radar and Automatic Identification System (AIS).

### IDENTIFICATION AND FREQUENCIES

Sector	Identifier	Channel	Frequency (MHz)
1	"Canso Traffic"	14	156.7

### CALLING-IN-POINTS

NUMBER	SECTOR	NAME	GENERAL DESCRIPTION AND CONDITIONS	GEOGRAPHIC DESCRIPTION
1Y	1			A line from 45°38'23.3"N 60°29'15.3"W, to 45°25'48.8"N 60°29'34"W
1A	1		Entrance to inbound traffic lane	A line from 45°25'48.8"N 60°29'34"W, to the Canadian territorial limit at 45°24'09.3"N 60°29'34.3"W
1B	1		Exit from outbound traffic lane	A line from 45°23'43.9"N 60°29'58.3"W, along Canada's territorial boundary, to 45°22'09"N 60°31'27.8"W
1C	1		Entrance to inbound traffic lane	A line from 45°20'53"N 60°32'39.5"W, along Canada's territorial boundary, to 45°18'36.8"N 60°34'47.7"W
1D	1		Exit from outbound traffic lane	A line from 45°18'20.1"N 60°36'30.3"W, to 45°18'20.8"N 60°41'06.3"W
1E	1		Exit from outbound traffic lane	A line from 45°18'20.8"N 60°41'06.3"W, to 45°18'21.3"N 60°46'04.2"W
1S	1			A line from 45°18'21.3"N 60°46'04.2"W, to 45°18'21.8"N 60°56'16.3"W
2A	1		Inbound traffic lane	A point at 45°24'40.3"N 60°41'39.3"W
2B	1		Outbound traffic lane	A point at 45°23'17"N 60°41'39.3"W
3A	1		Inbound traffic lane	A point at 45°24'32.5"N 60°50'16.3"W
3B	1		Outbound traffic lane	A point at 45°23'24.5"N 60°50'16.3"W
4A	1		Inbound traffic lane	A point at 45°24'24.3"N 60°58'45.3"W
4B	1		Outbound traffic lane	A point at 45°23'24.3"N 60°58'45.3"W
5S	1			A line from 45°21'08.3"N, 61°13'49.3"W, to 45°25'05.8"N, 61°07'10.9"W

5B	1		Outbound traffic lane	A point at 45°25'14.2"N, 61°06'57.0"W
5A	1		Inbound traffic lane	A point at 45°25'31.3"N, 61°06'28.1"W
5Y	1			A line from 45°28'31.3"N, 61°01'25.3"W, to 45°25'37.8"N, 61°06'17.4"W
6S	1			A line from 45°20'58.3"N, 61°21'43.4"W, to 45°28'07.2"N, 61°10'49.8"W
6B	1		Outbound traffic lane	A point at 45°28'15.2"N, 61°10'26.0"W
6A	1		Inbound traffic lane	A point at 45°28'37.8"N, 61°10'03.4"W
6Y	1			A line from 45°31'15.3"N, 61°05'59.5"W, to 45°28'42.0"N, 61°09'56.4"W
7	1	C14 buoy		A line from 45°34'42.3"N 61°15'52.6"W, to 45°31'13.8"N 61°15'40.4"W
8	1	Critchett Point		A line from 45°33'34.3"N 61°19'03.4"W, to 45°32'52.3"N 61°19'44.4"W
9	1	C26 buoy		A line from 45°36'23.2"N 61°22'14.3"W, to 45°36'15.2"N 61°23'13.2"W
10	1	Canal North Lock Gate		Canso Canal North Lock Gate, 45°38'58.2"N 61°24'57.3"W

All times shall be given in Atlantic Standard Time or Atlantic Daylight Saving Time, whichever is in effect



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## **PART 4**

## **GENERAL**

### **PROCEDURES**

#### **RADIOTELEPHONE PROCEDURES**

##### **General**

In the interest of safe navigation, and especially during bad weather conditions, masters should ensure that a continuous listening watch is maintained on 2182 kHz. Where practicable, and having due regard for Vessel Traffic Services and Seaway Control requirements, a listening watch should be maintained on VHF Ch 16 (156.8 MHz).

2182 kHz AND Ch 16 (156.8 MHz) SHALL ONLY BE USED FOR DISTRESS, URGENCY AND SAFETY COMMUNICATIONS AND FOR CALLING PURPOSES. THE CLASS OF EMISSION TO BE USED FOR RADIOTELEPHONY ON THE FREQUENCY 2182 kHz SHALL BE J3E.

Initial calls must be made directly on the safety and calling frequency 2182 kHz. This procedure is required because the MCTS centres do not monitor MF working frequencies.

Make initial calls on any of the VHF working frequencies shown in **bold type** in the “Receiving” column of the MCTS centre listing. The MCTS centre will then respond on the corresponding frequency shown in the “Transmitting” column. It is necessary to indicate the channel number on the initial call because MCTS officers guard multiple frequencies simultaneously. Before making a call directly on a working frequency, listen for a period long enough to ensure that the channel is not in use. Follow this procedure for radio checks.

If difficulty is experienced in establishing contact with the MCTS centre, or if contact is desired with another vessel, the initial call may be made on the calling frequency Ch 16 in which case the station called will reply on the same frequency. As soon as communication has been established a change must be made to an agreed working frequency and all further communications made on that frequency.

Masters of compulsorily-fitted ships are reminded that a radio log of all distress and urgency communications and safety communications pertaining to their own ship should be kept and maintained onboard their vessels.

##### **The following examples will illustrate the procedure to be used**

Initial call, when a vessel is attempting to establish communication on a working frequency with a specific station:

<b>Item</b>	<b>Spoken</b>
Name of station called (spoken three times).	PRESCOTT COAST GUARD RADIO
The words "THIS IS"	THIS IS
Type, name, radio call sign of vessel calling (spoken three times).	STEAMER FAIRMOUNT CYLD
and channel	CHANNEL 26
Invitation to reply	OVER

Initial call when a vessel wishes to establish communications with any station within range (or within a certain area):

Item	Spoken
General call (spoken three times).	ALL STATIONS (or ALL SHIPS IN JOHNSTONE STRAITS)
The words "THIS IS"	THIS IS
Type, name and radio call sign of vessel calling (spoken three times).	TANKER IMPERIAL CORNWALL/VCVC
Invitation to reply	OVER

When a station wishes to broadcast information rather than to establish communication, it proceeds with the message instead of giving the invitation to reply.

A radio message from a ship consists of several parts which shall be transmitted on the working frequency in the following order:

- (a) Type, name and radio call sign of the originating ship.
- (b) The date and time the message originated. (Preferably in UTC. Daylight Saving Time shall not be used). [date and time may be sent as one group, the first two figures indicate the date, the last four the time.]
- (c) The address.
- (d) The text or body of the message.
- (e) The signature.

**Note:** Items (a) and (b) taken together, are known as the "preamble".

Example of a ship to shore radio message:

MESSAGE	FROM M/V WEST WIND, CALL SIGN V2AG
FILED:	071225UTC
ADDRESS:	ECAREG CANADA
TEXT:	SECURED SYDNEY GOVERNMENT WHARF
SIGNATURE:	MASTER

An acknowledgment of receipt of a message shall not be given until the receiving operator is certain that the transmitted information has been received correctly.

While it is not practical to lay down precise words and phrases for all radiotelephone procedures, the following should be used where applicable.

Terms	Meaning
ACKNOWLEDGE	Let me know that you have received and understood this message.
CORRECTION	An error has been made in this transmission. The correct version is.....
GO AHEAD	Proceed with your message.
OVER	My transmission is ended and I expect a response from you.
OUT	This conversation is ended and no response is expected.
READ BACK	After I have given OVER, repeat all this message back to me exactly as received.
ROGER	I have received all of your last transmission.
RECEIVED NUMBER	Receipt of your message number..... is acknowledged.
STAND BY	Wait until you hear further from me.
VERIFY	Check with the originator and send the correct version.
WORDS TWICE	As a request - Please send each word twice. As information - I will send each word twice.

## Phonetic Alphabet

When it is necessary to spell out call signs, service abbreviations and words whose spelling might be misinterpreted, the following letter spelling table should be used:

A - ALFA	F - FOXTROT	K - KILLO	O - OSCAR	S - SIERRA	W - WHISKEY
B - BRAVO	G - GOLF	L - LIMA	P - PAPA	T - TANGO	X - X-RAY
C - CHARLIE	H - HOTEL	M - MIKE	Q - QUEBEC	U - UNIFORM	Y - YANKEE
D - DELTA	I - INDIA	N - NOVEMBER	R - ROMEO	V - VICTOR	Z - ZULU
E - ECHO	J - JULIET				

## Times

Times are expressed in four figures, the first two denoting the hour and the last two the minutes, the day starting at midnight with 0000 and ending at 2400. The standard of time (e.g. UTC) is stated at the head of the appropriate column, or against the figures involved.

## Time Zone Comparison

NST	NEWFOUNDLAND STANDARD TIME
AST	ATLANTIC STANDARD TIME
EST	EASTERN STANDARD TIME
CST	CENTRAL STANDARD TIME

To convert from Coordinated Universal Time to Local Standard Time look opposite UTC under the appropriate column. For corresponding Daylight Saving Time, add one hour.

UTC	NST	AST	EST	CST
0000	2030	2000	1900	1800
0100	2130	2100	2000	1900
0200	2230	2200	2100	2000
0300	2330	2300	2200	2100
0400	0030	0000	2300	2200
0500	0130	0100	0000	2300
0600	0230	0200	0100	0000
0700	0330	0300	0200	0100
0800	0430	0400	0300	0200
0900	0530	0500	0400	0300
1000	0630	0600	0500	0400
1100	0730	0700	0600	0500
1200	0830	0800	0700	0600
1300	0930	0900	0800	0700
1400	1030	1000	0900	0800
1500	1130	1100	1000	0900
1600	1230	1200	1100	1000
1700	1330	1300	1200	1100
1800	1430	1400	1300	1200
1900	1530	1500	1400	1300
2000	1630	1600	1500	1400
2100	1730	1700	1600	1500
2200	1830	1800	1700	1600
2300	1930	1900	1800	1700

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## Time Signals

Canada's official time is the responsibility of the National Research Council's Institute for National Measurement Standards, Ottawa, ON. Its short wave radio station CHU, with transmitters located at 45°17'47"N 75°45'22"W is equipped with vertical antennas to give the best possible coverage to the maximum number of Canadian users. The signal is transmitted continuously on 3330 kHz, 7850 kHz and 14670 kHz, upper single-sideband H3E (AM compatible). A cesium atomic clock generates the carrier frequencies (accurate to a part in  $10^{11}$ ) and the UTC seconds pulses (accurate to 50 microseconds). The start of each UTC second is marked by the start of 300 cycles of a 1000 Hz tone, with certain omissions and identifications. Every half-minute is marked by omitting the preceding tone (for second 29). In the 9 seconds preceding each minute, the second pulses are shortened to "ticks" to provide a window for the voice announcement, followed by a longer tone. The start of this tone marks the exact minute given by the announcement. This tone is one-half second long, except for the exact hour - when it is one full second long and in this case only is followed by 9 seconds of silence.

The bilingual voice announcement which is heard each minute takes the form:

*"CHU Canada - Coordinated Universal Time -- hours -- minutes -- heures -- minutes" for even minutes,  
and  
"CHU Canada - Temps Universel Coordonné -- heures -- minutes -- hours -- minutes" for odd minutes.*

A small number of the longer time announcements use the abbreviation "UTC" rather than the full form.

Following international practice, Canada's official time is based on Coordinated Universal Time (UTC) which is kept within one second of UT1, the time on the Greenwich meridian as used for celestial navigation. Users interested in the ultimate accuracy of celestial navigation can determine UT1 with an accuracy of 0.1 seconds by decoding the difference  $DUT1 = UT1 - UTC$ , as transmitted by CHU in the internationally accepted code. The number of tenths of a second of DUT1 can be decoded by counting the number of emphasized second pulses that follow each minute. If the emphasized pulses occur for any of the seconds 1 to 8, DUT1 is positive; if the emphasized pulses occur for any of the seconds 9 to 16, DUT1 is negative. CHU emphasizes second pulses by splitting them (0.1 s of tone, 0.1 s of silence, 0.1 s of tone) so that a double tone is heard.

## DISTRESS COMMUNICATIONS IN RADIOTELEPHONY

### Early Notification of Search and Rescue Authorities of Developing Situations

In the interest of ensuring the highest level of safety, mariners should immediately notify the Canadian Coast Guard, through any MCTS centre of any situation which is or may be developing into a more serious situation requiring assistance from the Search and Rescue (SAR) System. The need for the earliest possible alerting of SAR Authorities to potential maritime emergencies cannot be over-emphasized.

This advice is given in accordance with IMO Circular MSC/Circ.892 and similar advice found in the ICAO/IMO International Aeronautical and Maritime SAR (IAMSAR) Manual Volume III. Further, there have been similar recommendations arising from serious SAR cases in the Canadian SAR Region where masters have failed to provide this notice until after the situation deteriorated.

This notification allows SAR authorities to carry out preliminary and contingency planning that could make a critical difference if the situation worsens. Time lost in the initial stages of a SAR mission may be crucial to its eventual outcome.

It is always best to consider the worst-case scenario and to alert SAR authorities accordingly. This notification places no obligations upon the master except to advise the Canadian Coast Guard when the situation has been corrected.



Canadian MCTS centres provide coverage of all marine distress frequencies, however, each centre does not necessarily guard each frequency (refer to centre listings Part 2). MCTS provides communications between the JRCC/MRSC and the vessel or vessels concerned with the distress.

The radiotelephone distress frequencies are:

- i) 2182 kHz on medium frequency (MF) band; and
- ii) 156.8 MHz (Ch 16) on very high frequency band (VHF); and
- iii) any other available frequency on which attention might be attracted if transmissions on 2182 kHz and 156.8 MHz are not possible or successful.

The digital selective calling (DSC) frequencies are:

- i) Ch 70 in the VHF band;
- ii) 4207.5 kHz;
- iii) 6312.0 kHz;
- iv) 8414.5 kHz;
- v) 12577 kHz; and
- vi) 16804.5 kHz in the High Frequency (HF) bands.

When another craft or person is in distress;

- i) all transmissions capable of interfering with the distress traffic must be stopped;
- ii) attention must be concentrated on the distress communications and all information possible intercepted; and
- iii) a station in the vicinity of the distressed craft must acknowledge receipt of the distress message if received, giving its own position in relation to that of the craft in distress and stating the action being taken.

Distress communications consist of the:

- **Distress Alert (when using VHF or HF DSC)**
- **Distress Signal;**
- **Distress Call;**
- **Distress Message; and**
- **Distress Traffic.**

Transmission of a DSC Distress Alert, a Distress Signal and/or a Distress Call announces that the ship, aircraft, other vehicle, or person that is making the transmission is:

- i) threatened by serious and imminent danger and requires immediate assistance; or
- ii) aware of another ship, aircraft, other vehicle, or person threatened by serious and imminent danger and requires immediate assistance.

**Distress communications** should be repeated by the craft in distress until an answer is heard.

The **DSC Distress Alert** will automatically switch radios to the associated distress frequency for the subsequent transmission of the distress signal, the distress call and the distress message.

### **The Alarm Signal**

The radiotelephone Alarm Signal consists of the continuous alternate transmission of two audio tones of different pitch for a period of at least thirty seconds but not to exceed one minute. The sound of this tone is similar to that used by some ambulances.

The Alarm Signal is used by Canadian MCTS centres to alert ships:

- i) that a mayday relay broadcast is about to follow; or
- ii) that a Tsunami warning, preceded by the Urgency Signal (PAN PAN) is about to follow; or
- iii) that the transmission of an urgent cyclone warning, preceded by the Safety Signal (SÉCURITÉ), is about to follow.

The Alarm Signal transmitted by the coast radio station will normally be sent for a period not exceeding thirty (30) seconds and will be followed by a ten (10) second continuous tone.

The **Distress Signal** consists of the word “MAYDAY”.

The **Distress Call** consists of:

- i) the word “MAYDAY” (spoken three times);
- ii) the words “THIS IS” followed by;
- iii) the name of the ship in distress (spoken three times);
- iv) the call sign or other identification; and
- v) the ship's MMSI (if a DSC distress alert has been sent).

The Distress Call:

- i) should not be addressed to a particular coast radio station or ship; and
- ii) has absolute priority over all other transmissions and all coast radio stations and ships that hear this call must cease any transmissions that will interfere with it and must listen on the frequency used for this call.

The **Distress Message** consists of:

- i) the word “MAYDAY”;
- ii) the name of the ship in distress;
- iii) the call sign or other identification;
- iv) the ship's MMSI (if a DSC distress alert has been sent);
- v) the position of the ship in distress;
- vi) the nature of the distress;
- vii) the kind of assistance needed;
- viii) any other useful information which might assist the rescue; and
- ix) the word “OVER”, which is an invitation to acknowledge and reply.

The DSC Distress Alert Acknowledgement to an “All Stations” DSC Distress Alert shall normally be made by an MCTS centre.

Ship stations may acknowledge receipt of a DSC Distress Alert by **radiotelephony** on the associated distress and calling frequency after an MCTS centre has had time to initiate contact with the vessel in distress.

**Distress Traffic** consists of all messages about the immediate assistance required by the ship in distress. Prior to the transmission of any Distress Traffic, the Distress Signal “MAYDAY” must be sent once before the call. The control of Distress Traffic is the responsibility of the ship in distress or of the ship or coast radio station sending a Distress Message.

A mobile station that learns that another mobile station is in distress may transmit the distress message if:

- i) the station in distress cannot transmit it;
- ii) the master or person responsible for the craft carrying the station which intervenes believes that further help is necessary;
- iii) although not in a position to render assistance, it has heard a distress message which has not been acknowledged.

In the above situation the distress message relay takes the following form:

- i) the radiotelephone Alarm Signal, if possible;
- ii) the words "MAYDAY RELAY" (spoken three times);
- iii) the words "ALL STATIONS" or a specific MCTS centre, as appropriate (spoken three times);
- iv) the words "THIS IS";
- v) the name of the mobile station repeating the distress message (spoken three times);
- vi) the call-sign or other identification of the mobile station repeating the distress message;
- vii) the MMSI of the mobile station repeating the distress message (if the initial distress alert was sent by DSC);
- viii) the repetition of the distress message;
- ix) the word, "OVER".

When Distress Traffic has ceased or when silence is no longer necessary the station that has controlled the Distress Traffic must transmit a message on the distress frequency advising that the distress traffic has ceased.

- i) the word "MAYDAY";
- ii) the words "ALL STATIONS" (spoken three times);
- iii) the words "THIS IS";
- iv) the name of the station which has controlled the distress traffic (spoken three times);
- v) the call-sign or other identification of the station which has controlled the distress traffic;
- vi) the current Coordinated Universal Time (UTC);
- vii) the MMSI (if the initial distress alert was sent by DSC) and the name and call sign of the ship that was in distress and a brief description of the resolution of the distress;
- viii) the words "SEELONCE FEENEE";
- ix) the word "OUT".

### **Distress Procedure Example**

Initiate a VHF or HF DSC Distress Alert.

Then, on the associated distress and calling frequency, the following distress call and distress message should be spoken slowly and distinctly:

Distress Signal	"MAYDAY" (three times)
the words	"THIS IS"
name of ship	"Nonsuch" (three times)
MMSI number	"316010115" (if initial distress alert was sent by DSC)
Distress Signal	"MAYDAY"
name of ship	"Nonsuch"
MMSI number	"316010115" (if initial distress alert was sent by DSC)
position	"Off Iles-St-Marie"
nature of distress	"Struck rock and taking on water"
assistance needed	"Require help to abandon ship"
other useful information	"5 persons on board"
invitation to acknowledge and reply	"OVER"

## URGENCY COMMUNICATIONS

The DSC Urgency Announcement will automatically switch marine radios to the associated distress frequency for the subsequent transmission of the urgency signal, the urgency call and the urgency message.

The **Urgency Signal** consists of the words “PAN PAN”.

The **Urgency Call** consists of:

- i) the words “PAN PAN” (spoken three times);
- ii) the words “ALL STATIONS” or station specific call (spoken three times);
- iii) the words “THIS IS” followed by;
- iv) the name of the station making the call (spoken three times);
- v) the call-sign or other identification; and
- vi) the ship’s MMSI (if the initial Urgency announcement was sent by DSC).

The urgency signal may be transmitted only on the authority of the master or the person responsible for the ship, aircraft or other vehicle carrying the mobile station.

The urgency signal indicates that the calling station has a very urgent message to transmit concerning the safety of a ship, aircraft or other vehicle, or the safety of a person.

The urgency signal, the urgency call, and the urgency message shall be sent on the distress frequencies 2182 kHz and Ch 16 (156.8 MHz). If transmission on these frequencies is impossible, any other available frequency on which attention might be attracted should be used.

The urgency signal has priority over all other communications, except distress, and all stations which hear it must take care not to interfere with the transmission of the message which follows the urgency signal.

Stations which hear the urgency signal must continue to listen for at least three minutes. At the end of this period, if no urgency message has been heard, normal service may be resumed. However, stations which are in communication on frequencies other than those used for transmission of the urgency signal may continue their normal work without interruption provided the urgency message is not addressed “to all stations”.

The DSC Urgency Acknowledgement to an “All Stations” DSC Urgency Announcement shall normally be made by an MCTS centre. Ship stations may acknowledge, by radiotelephony, the receipt of a DSC Urgency Announcement on the associated distress and calling frequency after an MCTS centre has had time to initiate contact with the vessel in distress.

## SAFETY COMMUNICATIONS

The **Safety Signal** consists of the word “SÉCURITÉ”.

The **Safety Call** consists of:

- i) the word “SÉCURITÉ” (spoken three times);
- ii) the words “ALL STATIONS” (spoken three times);
- iii) the words “THIS IS”, followed by;
- iv) the name of the station making the call (spoken three times);
- v) the call-sign or other identification;
- vi) the station’s MMSI (if the initial Safety announcement was sent by DSC);
- vii) a brief description of the context of the “Safety Message”;
- viii) the channel or frequency for the Safety broadcast;
- ix) the word “OUT”.

The safety signal indicates that the station is about to transmit an important navigational or meteorological warning. The safety message should be sent on a working frequency, which is announced at the end of the call.

The safety call is transmitted on the distress frequencies 2182 kHz and Ch 16 (156.8 MHz). If transmission on these frequencies is impossible, any other available frequency on which attention might be attracted shall be used.

A ship station which receives an “All Stations” DSC Safety Announcement shall not acknowledge receipt.

All stations hearing the safety signal shall shift to the working frequency indicated in the call and listen to the safety message until satisfied it does not concern them.

The **Safety Message** format consists of:

- i) the word “SÉCURITÉ”;
- ii) the words “ALL STATIONS” (spoken three times);
- iii) the words “THIS IS”, followed by;
- iv) the name of the station making the call (spoken three times);
- v) the call sign or other identification of the transmitting station;
- vi) the MMSI of the transmitting station (if the initial announcement was sent by DSC);
- vii) the details of the safety message;
- viii) the word “OUT”.

## **AIDS TO NAVIGATION**

### **Positions**

All positions expressed in latitude and longitude of the radio aids to navigation listed in this publication are approximate and are taken from the largest scale Canadian Hydrographic Service charts, where available, or British Admiralty charts of the vicinity. Mariners should bear in mind when plotting the position of any given aid that it is preferable to use a chart with the aid already located on it than to plot it from a position given in latitude and longitude.

### **Reporting Abnormal Operation of Radio Aids**

A marine radio aid observed to be operating abnormally should be reported, as soon as possible to an MCTS centre.

Reports shall be as complete as possible, giving full details including time, date, the position from which the observation was made, and details and description of conditions, such as weather and reception, prevailing at the time of the observation.

It is also requested that ships report abnormal MCTS centre operation, such as poor quality of marine telephone calls, unreadability of broadcasts, failure to answer calls, etc.

To ensure prompt corrective action, such reports must include the date, time and position of ship when the observation was made, together with details of prevailing weather and reception conditions.

### **Radio Beacons**

Marine radio beacons generally operate in the 285-325 kHz. Radio beacon service enables ships fitted with direction finding equipment to take a bearing or to take several consecutive bearings which will provide a fix. See Part 2 for details on individual listings.

**Radar Beacons (RACONS)**

Radar beacons (Racons) may be established at lighthouses, on buoys or at other specific charted locations ashore or afloat to enhance identification and detection range of these features by radar.

Some Racons operate only in the X band 9320-9500 MHz, whilst others are dual band X/S, X band plus S band of 2920-3100 MHz. It should also be noted that the slow sweep (SS) type of Racon will give a response every 72-120 seconds, whilst the frequency agile Racon (FAR) will respond more frequently.

The Racon signal appears on the radar display as a line commencing at the approximate range of the Racon and extending outwards along its line of bearing from the ship toward the limit of the display. The signal displayed may be a solid line or it may be broken into a code consisting of a series of dots and dashes as shown in relevant publications.

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## SYSTEMS

### GLOBAL MARITIME DISTRESS AND SAFETY SYSTEM IN CANADA (GMDSS)

#### What is GMDSS?

The Global Maritime Distress and Safety System (GMDSS) is an international system using improved terrestrial and satellite technology and ship-board radio systems. It ensures rapid alerting of shore-based rescue and communications authorities in the event of an emergency. In addition, the system alerts vessels in the immediate vicinity and provides improved means of locating survivors.

GMDSS was developed through the International Maritime Organization (IMO) and represents a significant change in the way maritime safety communications are conducted. While it is mandatory for all ships subject to the International Convention for the Safety Of Life At Sea (SOLAS) (cargo ships 300 gross tons or greater and all passenger vessels, on international voyages), GMDSS will impact on all radio-equipped vessels, regardless of size. All SOLAS ships are required to fully comply with GMDSS.

#### Why GMDSS?

GMDSS was developed to **SAVE LIVES** by modernizing and enhancing the current radiocommunications system. By utilizing satellite and digital selective calling technology, GMDSS provides a more effective distress alerting system. It improves the current system by:

- increasing the probability that an alert will be sent when a vessel is in distress;
- increasing the likelihood that the alert will be received;
- increasing the ability to locate survivors;
- improving rescue communications and coordination; and
- providing mariners with vital maritime safety information.

#### Maritime Safety Information (MSI)

Maritime Safety Information broadcasts, which comprise navigational and meteorological warnings, meteorological forecasts and other safety-related messages can be received in ➡four different ways in GMDSS:

1. NAVTEX receivers are fully automatic and receive broadcasts in coastal regions up to 300 nautical miles offshore;
2. Inmarsat C terminals receive Enhanced Group Call (EGC) - SafetyNET broadcasts for areas outside NAVTEX coverage.
3. ➡High Frequency narrow-band-direct-printing (HF NBDP) receivers may be used to promulgate MSI in areas outside Inmarsat coverage.
4. ➡VHF marine radio (Sea Area A1) as a medium for obtaining nav/met MSI.

#### GMDSS Sea Areas - International

Although ship-to-ship alerting is still an important function in GMDSS, the emphasis is on two way communications between ships and shore facilities. All GMDSS ships must be capable of communicating with the shore and transmitting a distress alert by two different means. The equipment carried by a GMDSS ship is therefore determined by its area of operation and the availability of shore-based communications services.

There are four “Sea Areas” defined in the GMDSS:

Sea Area A1	Within range of shore-based VHF/DSC coast station (40 nautical miles)
Sea Area A2	Within range of shore-based MF/DSC coast station (excluding sea areas A1)(150 nautical miles)
Sea Area A3	Within the coverage of an Inmarsat geostationary satellite (approximately 70°N to 70°S) (excluding sea areas A1 & A2)
Sea Area A4	The remaining areas outside sea areas A1, A2 & A3 (polar regions)

### **GMDSS Sea Areas - Canada**

In Canada, as a result of consultations with the Canadian marine industry, it has been decided to implement sea areas A1 on the east and west coasts. Outside of A1 will be an A3 sea area with an A4 sea area in the Arctic.

Consideration was given to the implementation of an A2 sea area, but due to budgetary constraints and the marine industry’s preference for sea areas A1 and A3, sea area A2 is not being planned at this time. A1 sea area for the Great Lakes and St. Lawrence River is also provided.

### **Communications between GMDSS Vessels & Non-GMDSS Vessels**

Since February 1<sup>st</sup>, 1999, GMDSS larger ships have been maintaining an automated listening watch on VHF/DSC Ch 70 and MF/DSC 2187.5 kHz. This at times creates the situation, where vessels fitted with traditional, non-GMDSS radio equipment, may have had difficulties alerting or contacting a GMDSS ship. The Canadian Coast Guard is addressing this by monitoring both GMDSS and traditional distress frequencies. Furthermore, the Canadian Coast Guard and Transport Canada encourage all vessels to fit VHF/DSC in the interest of increased safety.

### **Important Safety Notice concerning VHF/DSC**

After having received a distress, urgency or safety broadcast announcement on VHF/DSC Ch 70 the VHF/DSC equipment will automatically switch the DSC radio to VHF Ch 16 for the subsequent voice announcements. Mariners who are required by the *VHF Practices and Procedures Regulations* to monitor a specific VTS sector frequency should return the radio to the appropriate working frequency after determining, on Ch 16, the impact of the VHF/DSC alert broadcast announcement on their vessel’s operations.

It has been determined that vessels maintaining a listening watch on a VTS sector frequency, per the requirements of the *VTS Zone Regulations* may, if navigating in congested waters, temporarily discontinue DSC watchkeeping on VHF/DSC Channel 70 until the required manoeuvre has been completed.

Vessels inadvertently or accidentally transmitting a distress/urgency/safety broadcast on VHF/DSC must cancel the distress/urgency/safety broadcast on VHF Ch 16. Intentionally sending a false distress alert carries penalties under both the *Canada Shipping Act, 2001* and the *Radiocommunications Act*.

VHF/DSC equipment must be programmed with the correct Maritime Mobile Service Identity (MMSI) numbers (reference Radio Station licensing and MMSI numbers section in Part 4, also reference Part 1, page 8 for the MCTS centres’ MMSI numbers).

### **Canadian Coast Guard Marine Communications and Traffic Services Centres**

To help ease the transition to GMDSS and bridge the communication gap between the two systems, Canadian Coast Guard MCTS centres will continue to monitor the current distress and safety channels VHF Ch 16 and MF 2182 kHz for the foreseeable future. Once Canada’s sea areas have all been implemented, lower cost DSC equipment is available, and it is determined that these services are no longer required, these listening watches may be discontinued. This decision will be evaluated at that time.



➡The Canadian Coast Guard national VHF-DSC (digital selective calling) network controlled by MCTS centres can process VHF-DSC “Test Calls” from vessels provided that the marine radio meets the International Telecommunications Union (ITU) standard Recommendation M.493-11 (or higher) “Digital selective-calling system for use in the maritime mobile service”.

➡The Canadian Coast Guard VHF-DSC equipment is configured to automatically acknowledge VHF-DSC test calls within seconds of receipt provided that the MCTS centre VHF-DSC equipment is not processing higher priority DSC calls.

➡To supplement the broadcasting of Maritime Safety Information (MSI) on NAVTEX, INMARSAT, SafetyNET and HF NBDP, MCTS centres will continue MSI broadcasts using the existing VHF continuous marine broadcast system and MF radiotelephone broadcast at advertised times.

## LONG-RANGE IDENTIFICATION AND TRACKING OF VESSELS REGULATIONS (LRIT)

### INTERPRETATION

#### *Definitions*

1. (1) The following definitions apply in these Regulations.

#### ***“cargo vessel”***

“cargo vessel” means a vessel that is not a passenger vessel and is of 300 ➡ tons gross tonnage or more.

#### ***“international voyage”***

“international voyage” means a voyage between a port in one country and a port in another country, but does not include a voyage solely on the Great Lakes, the St. Lawrence River and their connecting and tributary waters as far east as the lower exit of the St. Lambert Lock at Montréal.

#### ***“LRIT equipment”***

“LRIT equipment” means information-transmitting equipment for the long-range identification and tracking of a vessel.

#### ***“LRIT information”***

“LRIT information” means the information referred to in section 5.

#### ***“Minister”***

“Minister” means the Minister of Transport.

#### ***“passenger vessel”***

“passenger vessel” means a vessel that carries more than 12 passengers.

#### ***“sea area A1”, “sea area A2”, “sea area A3” and “sea area A4”***

“sea area A1”, “sea area A2”, “sea area A3” and “sea area A4” have the meanings assigned by regulation 2.1 of Chapter IV of SOLAS.

**“SOLAS”**

“SOLAS” means the International Convention for the Safety of Life at Sea, 1974, and the Protocol of 1988 relating to the Convention, as amended from time to time.

***When vessel is constructed***

(2) For the purpose of these Regulations, a vessel is constructed on the earliest of

- (a) the day on which its keel is laid;
- (b) the day on which construction identifiable with a specific vessel begins; and
- (c) the day on which assembly of the vessel reaches the lesser of 50 tonnes and 1% of the estimated mass of all structural material.

**APPLICATION*****Cargo vessels and passenger vessels***

2. (1) These Regulations apply in respect of Canadian vessels everywhere if they

- (a) are engaged on international voyages; and
- (b) are cargo vessels or passenger vessels.

***Exceptions***

(2) These Regulations do not apply in respect of

- (a) pleasure craft; or
- (b) government vessels.

**COMPLIANCE*****Authorized representative***

3. The authorized representative of a vessel shall ensure that the requirements of sections 4 to 10 are met.

**LRIT EQUIPMENT*****Vessels to be fitted***

4. (1) Every vessel shall be fitted with LRIT equipment.

***Exception — sea area A1***

(2) Subsection (1) does not apply in respect of a vessel that operates exclusively in sea area A1 if it is fitted with an automatic identification system that meets the requirements of and is operated in accordance with section 65 of the *Navigation Safety Regulations*.

***Exception — vessels constructed before December 31, 2008***

(3) A vessel constructed before December 31, 2008 is not required to be fitted with LRIT equipment before

(a) if the vessel is certified under subsection 51(4) of the *Ship Station (Radio) Technical Regulations, 1999* for operation in sea area A1 and sea area A2 or in sea area A1, sea area A2 and sea area A3, the later of the day on which these Regulations come into force and the day on which its radio installation is first inspected after December 31, 2008; or

(b) if the vessel is certified under subsection 51(4) of the *Ship Station (Radio) Technical Regulations, 1999* for operation in sea area A1, sea area A2, sea area A3 and sea area A4,

(i) while the vessel is operating in sea area A1, sea area A2 or sea area A3, the later of the day on which these Regulations come into force and the day on which its radio installation is first inspected after December 31, 2008, or

(ii) while the vessel is not operating in sea area A1, sea area A2 or sea area A3, the later of the day on which these Regulations come into force and the day on which its radio installation is first inspected after July 1, 2009.

***Interpretation***

(4) For the purpose of subsection (3), inspection of a vessel's radio installation occurs when it is inspected as required by section 51 of the *Ship Station (Radio) Technical Regulations, 1999*.

Automatic transmission

**5.** The LRIT equipment fitted on a vessel to meet the requirements of section 4 shall automatically transmit the following information:

(a) the vessel's identity;

(b) the vessel's position, particularly its latitude and longitude; and

(c) the date and time of the transmission.

***Type approval or certification***

**6.** (1) The LRIT equipment fitted on a vessel to meet the requirements of section 4 shall be type-approved or certified by the Minister as meeting the performance standards and functional requirements set out in section 4 of the *Revised performance standards and functional requirements for the long-range identification and tracking of ships*, the annex to International Maritime Organization Resolution MSC.263(84), as amended from time to time.

***Interpretation***

(2) For the purpose of interpreting section 4 of the annex referred to in subsection (1),

(a) "should" shall be read to mean "shall"; and

(b) "Administration" shall be read to mean "Minister".

***Switching off equipment***

**7.** (1) The LRIT equipment fitted on a vessel to meet the requirements of section 4 shall be capable of being switched off on board.

**Master**

- (2) The vessel's master may switch off the LRIT equipment
- (a) when international agreements, rules or standards provide for the protection of navigational information; and
- (b) in exceptional circumstances and for the shortest duration possible when the equipment's operation is considered by the vessel's master to compromise the safety or security of the vessel.

**Informing authorities**

- (3) If the master switches off the LRIT equipment in the case provided for by paragraph (2)(b), the master shall
- (a) without undue delay inform a Marine Communications and Traffic Services centre of the Canadian Coast Guard and, if the vessel is in the waters of a contracting government, the relevant maritime authority of that government; and
- (b) make an entry, in the record of navigational activities and incidents maintained in accordance with section 85 of the *Navigation Safety Regulations*, setting out the reasons for the decision and indicating the period during which the equipment was switched off.

**Reducing frequency of or temporarily stopping transmission**

8. (1) The LRIT equipment fitted on a vessel to meet the requirements of section 4 shall be capable of
- (a) being configured to transmit the LRIT information at a reduced frequency of once every 24 hours; and
- (b) temporarily stopping the transmission of LRIT information.

**Master**

- (2) While a vessel is undergoing repairs, modifications or conversions in dry dock or in port or is laid up, the vessel's master may, on his or her own initiative, and shall, if directed to do so by the Minister,
- (a) reduce the frequency of the transmission of LRIT information to once every 24 hours; or
- (b) temporarily stop the transmission of LRIT information.

**Informing authorities**

- (3) If the master reduces the frequency of or temporarily stops the transmission of LRIT information under subsection (2), the master shall
- (a) without undue delay inform a Marine Communications and Traffic Services centre of the Canadian Coast Guard and, if the vessel is in the waters of a contracting government, the relevant maritime authority of that government; and
- (b) make an entry, in the record of navigational activities and incidents maintained in accordance with section 85 of the *Navigation Safety Regulations*, indicating the period during which the transmission of LRIT information was reduced in frequency or temporarily stopped, and whether or not the Minister directed the action.

**Failure of system**

9. If the Minister or the Canadian Coast Guard informs the master of a vessel that any part of the system used to receive LRIT information from the vessel or to disseminate the information has failed, the master shall make an entry, in the record of navigational activities and incidents maintained in accordance with section 85 of the *Navigation Safety Regulations*, setting out the date and time the master was informed.

**Electromagnetic interference**

10. LRIT equipment shall be installed so that electromagnetic interference does not affect the proper functioning of navigational equipment.

**Issuance of proof of type approval or of certificate**

11. (1) On application, the Minister shall issue a proof of type approval or a certificate for LRIT equipment if the Minister determines that the equipment meets the performance standards and functional requirements referred to in subsection 6(1).

**Carry proof or certificate on board**

(2) A vessel's master shall ensure that a proof of type approval or a certificate issued under subsection (1) for the LRIT equipment fitted on the vessel to meet the requirements of section 4 is

- (a) in the case of a proof of type-approval, carried on board in the form of
  - (i) a label that is securely affixed to the equipment in a readily visible location, or
  - (ii) a document that is kept in a readily accessible location; and
- (b) in the case of a certificate, carried on board in a readily accessible location.

**CANADIAN NAVTEX SERVICE**

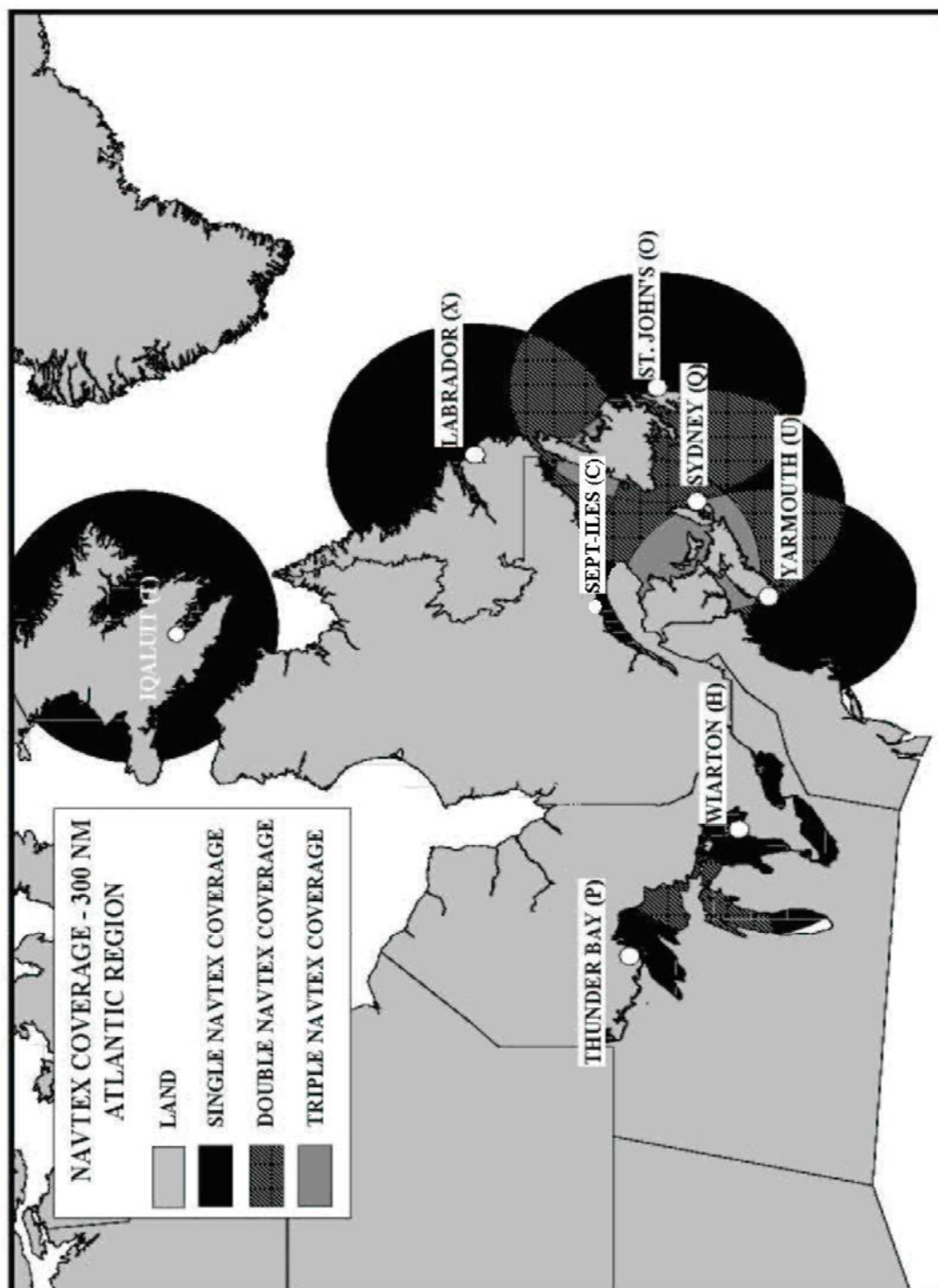
NAVTEX Service is available from the following transmitting sites:

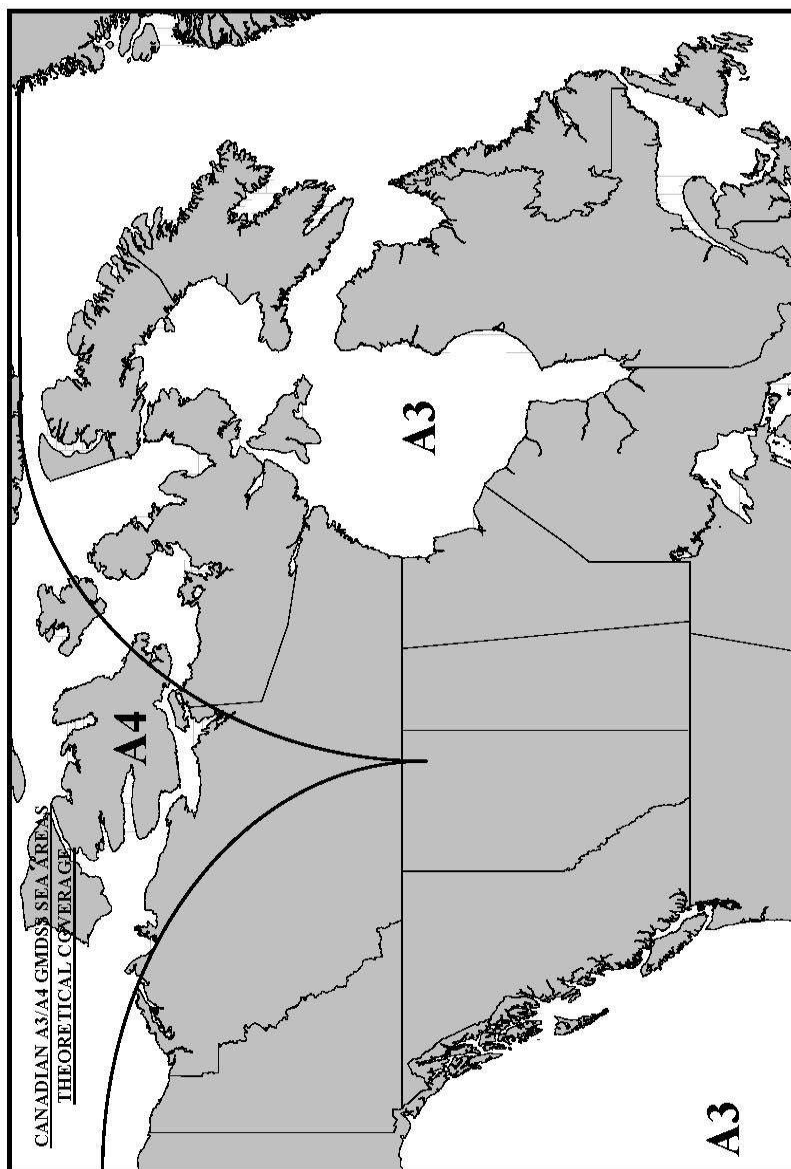
Site	Position	Range (NM)	ID
St. John's	47 30N 52 40W	300	O
Labrador	53 42N 57 02W ( <b>NAD 83</b> )	300	X
Sydney	46 10N 60 00W	300	Q (English) J (French)
Yarmouth	43 45N 66 07W	300	U (English) V (French)
Sept-Iles	50 15N 66 10W	300	C (English) D (French)
Thunder Bay	➡48 34N 88 39W	300	P
Warton	➡44 56N 81 14W	300	H
Iqaluit	63 43N 68 33W	300	T (English) S (French)

The service uses the frequency 518 kHz (English) and 490 kHz (French) on a timeshared basis for the broadcast of the following subject indicator content:

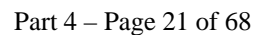
- |   |                              |
|---|------------------------------|
| (A) Navigational Warnings                   | (E) Meteorological Forecasts |
| (B) Meteorological Warnings                 | (G) ➡ AIS Service Messages   |
| (C) Ice Reports                             | (J) GPS Messages             |
| (D) ➡ Search and Rescue Information/Tsunami |                              |

Broadcast time and content is shown in individual MCTS centre listings. For Wiarion site consult Prescott MCTS listing. For Sept-Iles site consult Rivière-au-Renard MCTS listing.

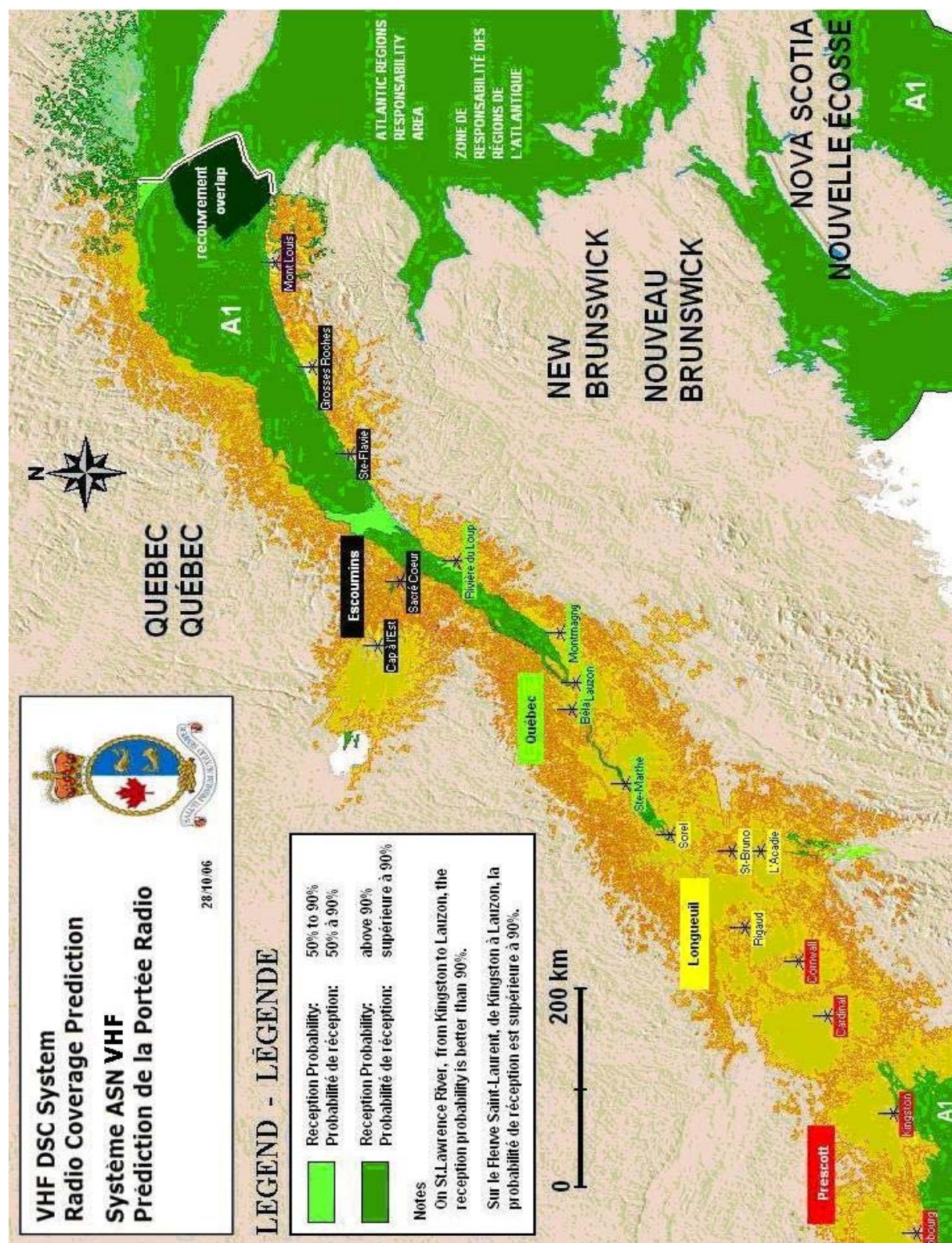




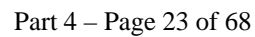












## EMERGENCY POSITION INDICATING RADIO BEACONS (406 MHZ)

➡ It is recommended that a float-free EPIRB be carried on board ships and pleasure crafts operating offshore. To be effective, 406 MHz EPIRBs **must be registered** with the Canadian Beacon Registry by telephone 1-800-406-7671; facsimile 1-877-406-3298; or, on the Website at: <http://www.canadianbeaconregistry.forces.gc.ca/> You may also reach the Canadian Beacon Registry by email at [cbr@sarnet.dnd.ca](mailto:cbr@sarnet.dnd.ca).

INMARSAT discontinued their monitoring service of INMARSAT E EPIRB distress alerts as of **December 1, 2006**.

Mariners should check with INMARSAT for exchange of any currently held INMARSAT E EPIRBs. Further, mariners should only purchase and fit COSPAS-SARSAT 406 MHz EPIRBs.

- Float-free EPIRBs should not be fitted under ledges or structures that would impede their ability to float free. Do not install the EPIRB with lanyard attached to the superstructure of your vessel.
- Both manually activated EPIRBs and float-free EPIRBs should be readily accessible so that in the event of an emergency, it is available for immediate use.
- EPIRBs should be tested using the "TEST" button, by the operator every 6 months. This test should be recorded in the radio log.
- EPIRB battery packs and hydrostatic release units should be replaced per the manufacturer's recommendations.

A list of 406 MHz EPIRBs approved for use in Canada is available on the Website at:  
<http://www.tc.gc.ca/eng/marinesafety/oep-navigation-safety-apci-2298.htm>.

**Ship Station (Radio) Regulations, 1999**

	Ships $\geq 20\text{m}$ and certified to carry $>12$ passengers, or ships $\geq 300\text{gt}$
	All other ships

- Requirements for Safety Convention ships are not shown as they must comply with the Safety Convention
- Requirements for ships on inland voyages and minor waters voyages are not shown since there are no new requirements
- Regulations do not apply to a pleasure yacht not carrying a master or crew for hire, or a tow-boat in a booming ground

Equipment	Sea Area A1 or VHF Area	Sea Area A3	Sea Area A4
VHF Radio with DSC (SSRR)	Yes -unless ship operates within a VTS Zone, then will have until January 31, 2003, or until the sea area A1 is completed, whichever is latest		
	Yes - by February 1, 2003, or after sea area A1 completed, whichever is latest • ships ≥8m in length and of closed construction, • ships carrying >6 passengers, and • tow boats -exempted are ships on a home-trade voyage, class IV in a VTS Zone -current VHF radiotelephone provisions remain in effect until then		
Inmarsat Ship Earth Station with EGC, and MF Radio with DSC, Or MF/HF Radio with DSC and NBDP (SSRR)	no	Yes (EGC required only if outside NAVTEX range)	Yes MF/HF option only
NAVTEX Receiver (no change to current requirement-SSRR)	no		
	no	Yes • if ≥ 150gt tow boat • if ≥ 300gt cargo ship • if ≥ 24m fishing, or • if passenger ship	no
EPIRB (float-free) (SSRR)	no		
	Yes • if ≥20m (and beyond home trade IV voyage) • if tug >5gt and <20m if voyage >50 miles long and >2 miles from shore • if ≥ 15gt and go beyond home-trade III voyage limits i.e., 20 miles from shore by April 1, 2001 • if ≥ 8m and go beyond home-trade III voyage limits on April 1, 2002 (Note: EPIRB does not have to be float-free if less than 15gt) -exempted are ships on home-trade voyages, class IV or minor waters voyages		
Radar Transponder(s) (SARTs) (SSRR, Life Saving Equipment Regulations, Large Fishing Vessel Inspection Regulations, and Small Fishing Vessel Inspection Regulations)	no	Yes 2 are required, unless ship is certified to carry ≤ 12 passengers and is <500gt, then carry 1	
	Yes 1 if 20m in length or over on > HTII voyages; but, can continue to carry 2 Class II EPIRBs instead until one of the batteries expire.		
Survival Craft VHF Portable Radio (Life Saving Equipment Regulations, Large Fishing Vessel Inspection Regulations)	Yes 3 are required, unless ship is certified to carry ≤ 12 passengers and is <500gt, then carry 2 (new requirement for ships on home-trade voyages, class III)		
	no	Yes 3 are required if ship is certified to carry >12 passengers and is >5gt	
Reserve Source of Energy	Yes		
	Yes if ship is ≥20m, is carrying more than 6 passengers, or is a tow-boat		

DSC: digital selective calling EGC: enhanced group calling NBDP: narrow band direct printing

**Additional requirements:** emergency procedures card, operating and routine maintenance manuals, consumable spare parts, radio publications, time piece, weather facsimile (Arctic), spare antennas (some ships  $\geq 20\text{m}$ ).

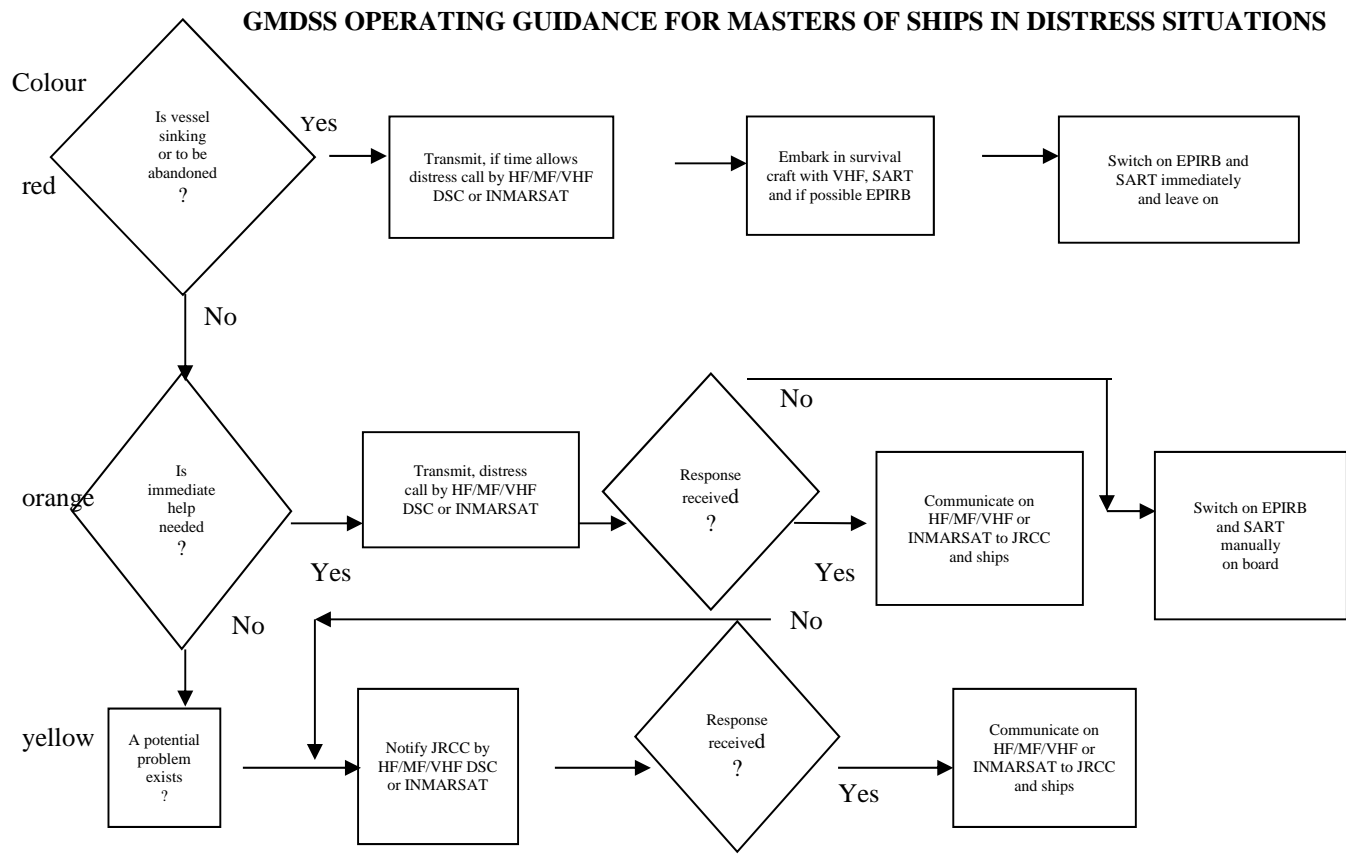
**GUIDANCE FOR MASTERS IN DISTRESS SITUATIONS AND ALERTING OF SAR AUTHORITIES**

In 1992, the International Maritime Organization (IMO) prepared a flow chart providing GMDSS operating guidance for masters of ships in distress situations (COM/Circ.108). It was recommended that this chart be displayed on the ship's bridge.

Later, another circular (MSC/Circ.892) was prepared to strongly emphasize the importance for ships to alert SAR authorities at the earliest possible moment in any situation that may involve a danger to life or that has the potential of developing into such a situation.

The following is for the mariner's information and guidance:

- GMDSS Operating Guidance for Masters of Ships in Distress Situations and;
- Alerting the Search and Rescue Authorities



1. EPIRB should float-free and activate automatically if it cannot be taken into survival craft.
2. Where necessary, ships should use any appropriate means to alert other ships.
3. Nothing above is intended to preclude the use of any and all available means of distress alerting.

RADIO DISTRESS COMMUNICATIONS			
	Digital Selective Calling (DSC)	Radiotelephone	Radiotelex
VHF	Channel 70	Channel 16	
MF	2187.5 kHz	2182 kHz	2174.5 kHz
HF4	4207.5 kHz	4125 kHz	4177.5 kHz
HF6	6312 kHz	6215 kHz	6268 kHz
HF8	8414.5 kHz	8291 kHz	8376.5 kHz
HF12	12577 kHz	12290 kHz	12520 kHz
HF16	16804.5 kHz	16420 kHz	16695 kHz

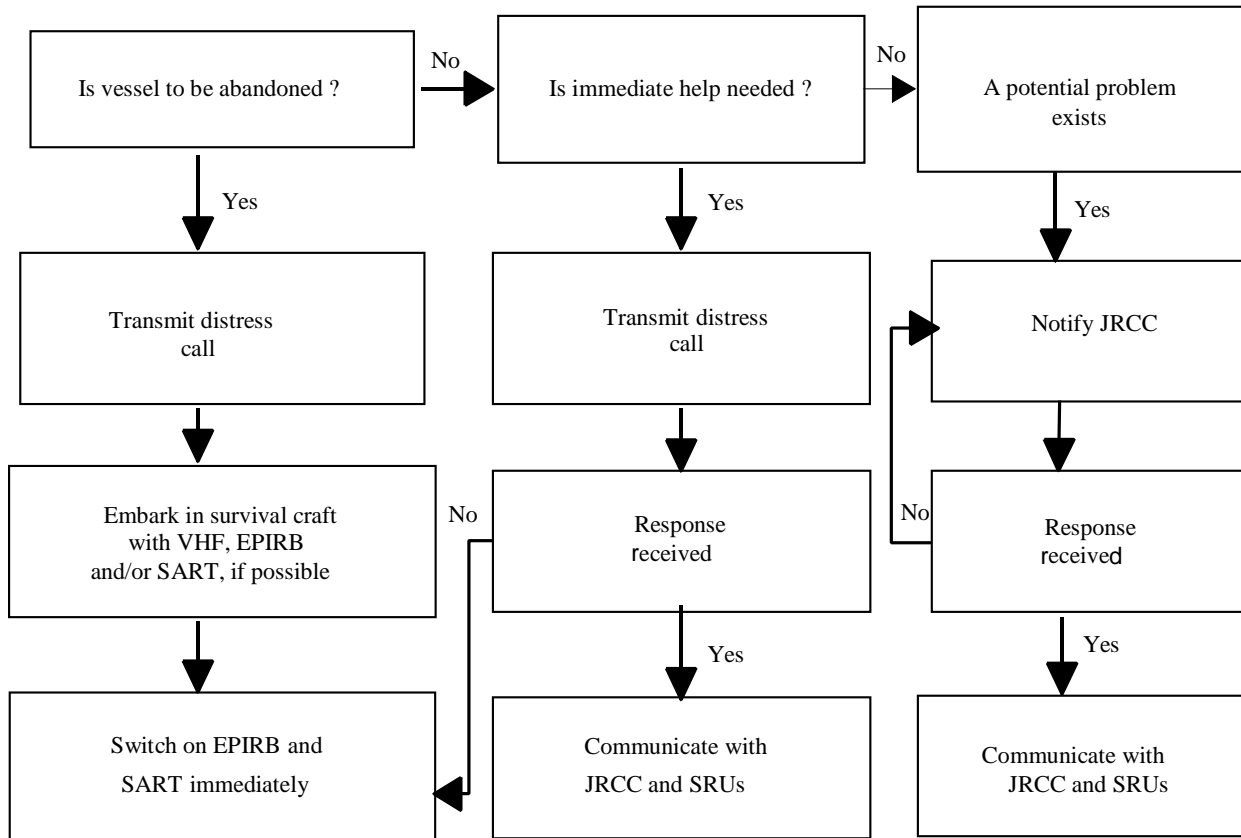
**Alerting the Search and Rescue Authorities (MSC/Circ.892)**

1. The need for the earliest possible alerting of the search and rescue (SAR) co-ordination authority to maritime emergencies cannot be over-emphasized
2. It is essential to enable shore-based facilities to respond without delay to any situation which constitutes, or has the potential to constitute, a danger to life. Time lost in the initial stages of an incident may be crucial to its eventual outcome. It cannot be regained.
3. Factors to be considered include position (in relation to hazards and to shore-based or other SAR units); time of day; weather conditions (actual & forecast); the number of persons at risk or potentially at risk; specific assistance required, etc.
4. It is always best to consider the 'worst-case scenario' and to alert the SAR organization accordingly. Depending on the circumstances, the co-ordinating authority may choose to alert or despatch SAR facilities as a precautionary measure and/or to reduce transit times. If assistance is not subsequently required, any such positive response can be easily curtailed. But time lost through delays in notification can *never* be regained.
5. It is therefore essential that the SAR co-ordinating authority be informed *immediately* of:
  - i) all maritime SAR incidents;
  - ii) any situation which may develop into a SAR incident; and
  - iii) any incident which may involve or lead to danger to life, the environment or to property which may require action from the SAR services and/or other authorities.



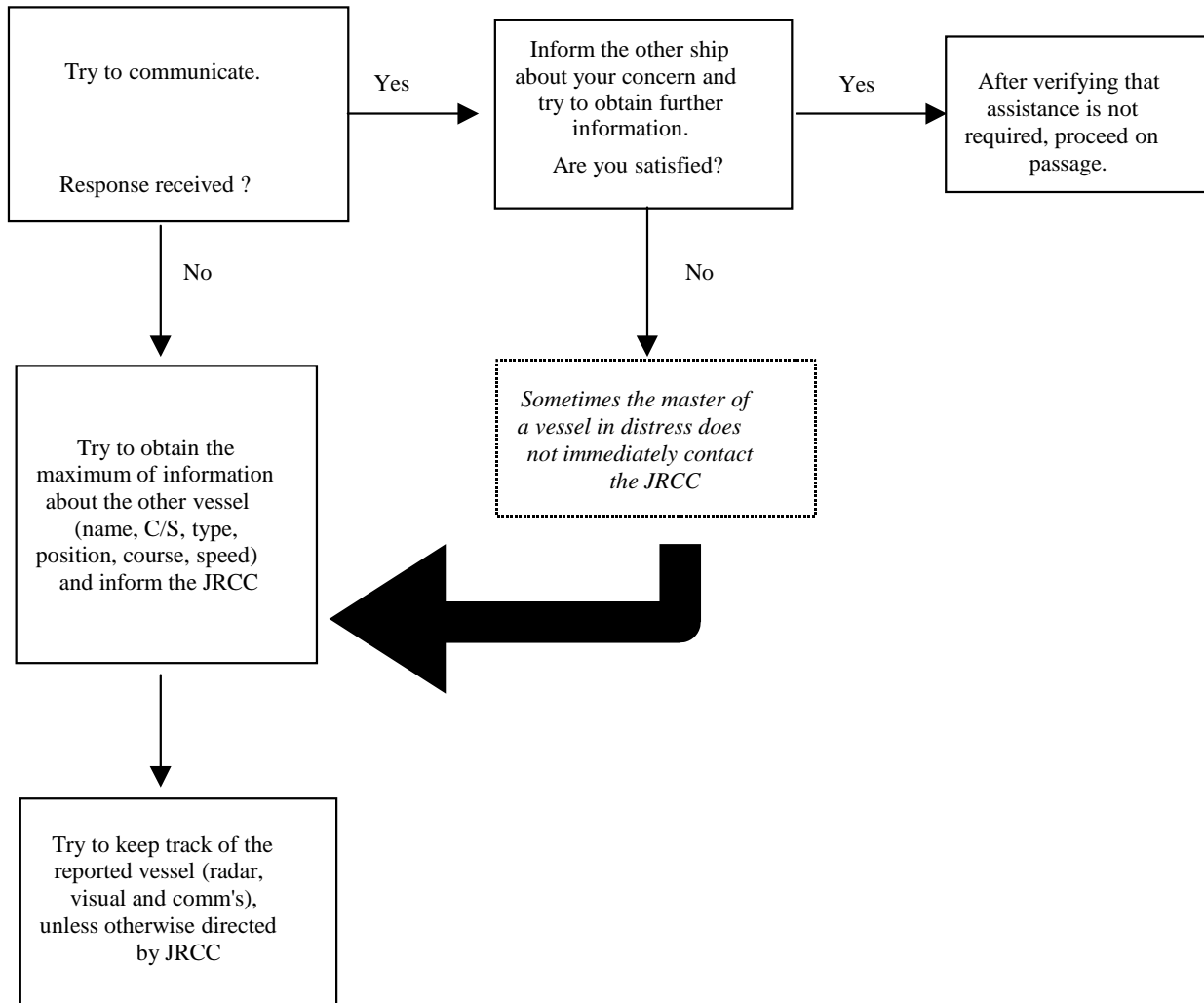
**Operating guidance for masters of ships in distress or urgency situations** [to be considered in conjunction with IMO publication 969 - GMDSS Operating Guidance for Masters of Ships in Distress Situations (COM/Circ.108 of 23 January 1992)]

6. The following diagram shows standard procedures for distress/urgency message routing. It is for guidance only, and does not preclude the use of any and all available means of distress alerting.



**Operation guidance for masters of ships observing another vessel apparently in danger**

7. The following diagram shows suggested procedures for reporting concerns about the safety of another vessel (fire, smoke, adrift, navigating towards a danger, etc.).



**Note:** For local JRCC contact information, refer to section *SEARCH AND RESCUE IN CANADIAN AREAS OF RESPONSIBILITY* (Part 4 of this publication).

**False Distress Alerts and Distress Relay Alerts**

The GMDSS has been in force for ships on international voyages since February 1, 1999, following its seven-year phase-in. During this time, considerable experience was gained internationally in the operation of the GMDSS. While the GMDSS has proven its overall effectiveness, the high number of accidental distress alert activations and the inappropriate and unintended Digital Selective Calling (DSC) distress relay alerts have detracted from the efficiency of the system. Excessive false alerts and distress relay alerts can create an unnecessary burden and workload for SAR services. They may also cause confusion and undermine mariner's confidence in the GMDSS. They could potentially have a serious impact on real distress situations.

With the aim of minimizing the number of false alerts and distress alert relays, the following information is provided:

- “Instructions for Mariners and Others on How to Cancel a False Alert” (appendix to IMO Resolution A.814(19) entitled Guidelines for the Avoidance of False Distress Alerts)
- “Procedure for Responding to DSC Distress Alerts by Ships” (COMSAR/Cir.25)

## **Instructions for Mariners and Others<sup>1</sup> on How to Cancel a False Distress Alert**

[Appendix to IMO Resolution A.814 (19)]

### **DSC**

#### **1 VHF**

1. switch off transmitter immediately<sup>2</sup>;
2. switch equipment on and set to Channel 16; and
3. make broadcast to "All Stations" giving the ship's name, call sign and MMSI number, and cancel the false distress alert.

#### **Example**

All Stations, All Stations, All Stations  
This is NAME, CALL SIGN,  
MMSI NUMBER, POSITION.

Cancel my distress alert of  
DATE, TIME UTC,  
= Master NAME, CALL SIGN,  
MMSI NUMBER, DATE, TIME UTC

#### **2 MF**

1. switch off equipment immediately<sup>3</sup>;
2. switch equipment on and tune for radiotelephony transmission on 2182 kHz; and
3. make broadcast to "All Stations" giving the ship's name, call sign and MMSI number, and cancel the false distress alert.

#### **Example**

All Stations, All Stations, All Stations  
This is NAME, CALL SIGN,  
MMSI NUMBER, POSITION.

Cancel my distress alert of  
DATE, TIME UTC,  
= Master NAME, CALL SIGN,  
MMSI NUMBER, DATE, TIME UTC

#### **3 HF**

As for MF, but the alert must be cancelled on all the frequency bands on which it was transmitted. Hence, in stage 2.2 the transmitter should be tuned consecutively to the radiotelephony distress frequencies in the 4, 6, 8, 12 and 16 MHz bands, as necessary.

<sup>1</sup> Appropriate signals should precede these messages in accordance with the ITU Radio Regulations Chapter NIX.

<sup>2</sup> This applies when the false alert is detected during transmission.

<sup>3</sup> This applies when the false alert is detected during transmission.

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**4 Inmarsat C**

Notify the appropriate JRCC to cancel the alert by sending a distress priority message via the same CES through which the false distress alert was sent.

NAME, CALL SIGN, IDENTITY NUMBER,  
POSITION,  
Cancel my Inmarsat-C distress  
alert of DATE, TIME UTC  
= Master +

**5 EPIRBs**

If for any reason an EPIRB is activated accidentally, the ship should contact the nearest coast station or an appropriate coast earth station or JRCC and cancel the distress alert.

**6 General**

- 6.1 Notwithstanding the above, ships may use any means available to them to inform the appropriate authorities that a false distress alert has been transmitted and should be cancelled.
- 6.2 No action will normally be taken against any ship or mariner for reporting and cancelling a false distress alert. However, in view of the serious consequences of false alerts, and the strict ban on their transmission, Governments may prosecute in cases of repeated violations.

## **Procedure for Responding to DSC Distress Alerts by Ships**

(COMSAR/Circ.25)

**1 Introduction**

The Sub-Committee on Radiocommunications and Search and Rescue (COMSAR) decided that Digital Selective Calling (DSC) relays of distress alerts on all shipborne DSC equipment should be reduced and prepared a procedure for responding to VHF/MF and HF distress alerts, given in flow diagrams 1 and 2 which follow, recommending that it be displayed on the ship's bridge as A4 size posters. It also prepared the following guidance.

**2 Distress relays**

- 2.1 Radio personnel serving on ships should be made aware of the consequences of transmitting a distress relay call and of routing a DSC distress relay alert to other than coast stations (CS).
- 2.2 The number of unintended activations of DSC distress alerts and DSC distress relay alerts creates extra work load and confusion to (M) JRCCs and also causing delay in the response-time. The original distress alert from a ship in distress should not be disrupted by other ships, by transmitting a DSC distress relay alert.
- 2.3 Recommendation ITU-R M.541-8 on Operational procedures for the use of DSC equipment in the Maritime Mobile Service identifies only two situations in which a ship would transmit a distress relay call (distress relay alert):
  - 1. on receiving a distress alert on a HF channel, which is not acknowledged by a coast station within 5 minutes. The distress relay call should be addressed to the appropriate coast station (Annex 1, paragraph 3.4.2 and Annex 3, paragraph 6.1.4); and

2. on knowing that another ship in distress is not itself able to transmit the distress alert and the Master of the ship considers that further help is necessary. The distress relay call should be addressed to "all ships" or to the appropriate coast station (Annex 3, paragraph 1.4).
- 2.4 In no case is a ship permitted to transmit a DSC distress relay call on receipt of a DSC distress alert on either VHF or MF channels.
- 2.5 Distress relay calls on HF channels should be initiated manually.
- 2.6 Compliance with operational and technical provisions above would prevent transmissions of inappropriate distress relay calls.

### **3 All coast stations call**

- 3.1 Recommendation ITU-R M.493-9 on DSC systems for use in the Maritime Mobile Service provides for "group calls" an address consisting of the characters corresponding to the station's Maritime Mobile Service identity (MMSI) and a number of administrations have already assigned a "group call" MMSI to their coast stations in addition to the coast station's individual MMSI.
- 3.2 By multilateral agreements, a "group call" MMSI could be assigned to all coast stations of a specific region, e.g., an JRCC area and could comply with IMO's requirement without need of introducing further modifications to GMDSS equipment.
- 3.3 An alternative method to implement an "all coast stations" call without the need to modify Recommendation ITU-R M.493-9 could be to define one MMSI world-wide as an address for all coast stations, in accordance with Nos. S19.100 to S19.126 of the ITU Radio Regulations. However, this solution would also require a modification of the setup at each coast station participating in the GMDSS.

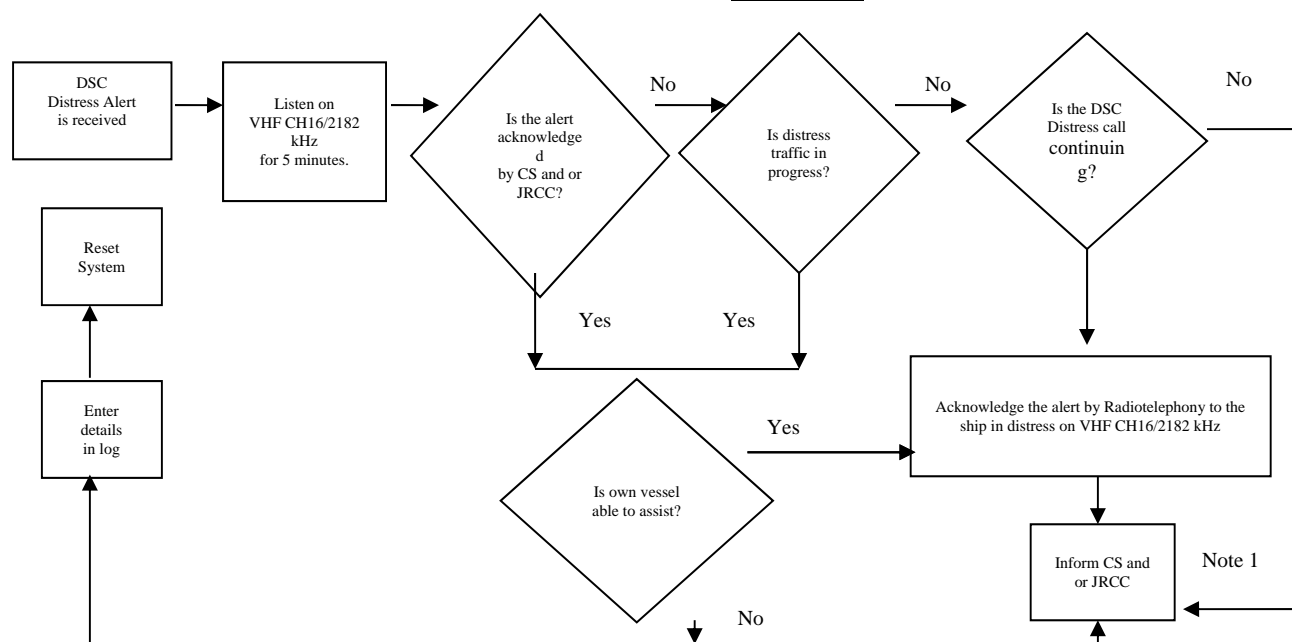
### **4 Authorization**

It should be noted that on ships, distress alerts, distress acknowledgements and distress relay calls can only be transmitted with permission of the Master of the ship.

### **5 Flow diagrams**

- 5.1 The simplified flow diagrams 1 and 2 describe actions to be taken aboard ships upon receipt of distress alerts from other ships. Administrations should give wide distribution of these flow diagrams to ships and training institutions.
- 5.2 Member Governments are invited to bring the above guidance and the attached flow diagrams to the attention of their shipowners, seafarers, coast stations, JRCCs and all others concerned.

**FLOW DIAGRAM 1 (COMSAR/Cir.25)**  
**ACTIONS BY SHIPS UPON RECEPTION OF VHF/MF DSC DISTRESS ALERT**

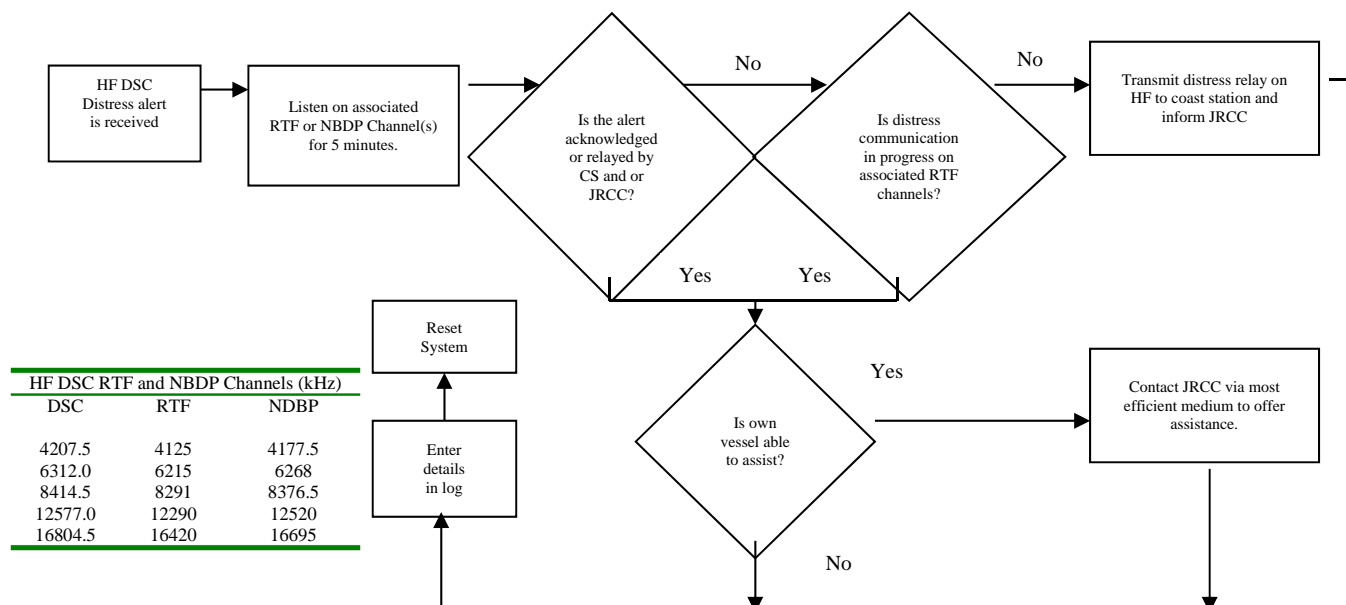
**REMARKS:**

Note 1: Appropriate or relevant JRCC and/or Coast Station shall be informed accordingly. If further DSC alerts are received from the same source and the ship in distress is beyond doubt in the vicinity, a DSC acknowledgement may, after consultation with a JRCC or Coast Station, be sent to terminate the call.

Note 2: In no case is a ship permitted to transmit a DSC distress relay call on receipt of a DSC distress alert on either VHF channel 70 or MF Channel 2187.5 kHz

**CS** = Coast Station      **JRCC** = Joint Rescue Co-ordination Center

**FLOW DIAGRAM 1 (COMSAR/Cir.25)**  
**ACTIONS BY SHIPS UPON RECEPTION OF HF-DSC DISTRESS ALERT**

**REMARKS:**

- Note 1: If it is clear the ship or persons in distress are not in the vicinity and/or other crafts are better placed to assist, superfluous communications which could interfere with search and rescue activities are to be avoided. Details should be recorded in the appropriate logbook.
- Note 2: The ship should establish communications with the station controlling the distress as directed and render such assistance as required and appropriate.
- Note 3: Distress relay calls should be initiated manually.

CS = Coast Station

JRCC = Joint Rescue Coordination Centre





## DISTRESS AND SAFETY RADIOTELEPHONE PROCEDURES

TO BE DISPLAYED BESIDE RADIOTELEPHONE

Name of ship: .....

MMSI number: .....

### BEFORE DEPARTING

- » Have you left a call plan with a responsible person ashore?
- » Does your voyage plan take into consideration adverse weather, navigational hazards and fuel requirements?
- » Have you verified that your radio equipment is operational?
- » Have you charged and checked any batteries used to power radio equipment for emergency communication?
- » If equipped with VHF-DSC (Digital Selective Calling), do you have a valid MMSI\* number and have you connected the antenna to your GPS?
- » If equipped with an EPIRB, have you registered\* your EPIRB with the Canadian coast registry?
- » Do you have suitable visual distress signal aboard? (flares, signalling light, etc)

### EARLY ALERTING OF SAR

Transport Canada strongly recommends you report, without delay, any situation that has the potential to constitute a danger to life. Time lost in the initial stages of a potential distress incident cannot be regained and may be critical to the outcome. See examples for URGENCY (PAN PAN) message.

### DISTRESS PROCEDURES

*For use only when in grave and imminent danger and IMMEDIATE ASSISTANCE is required.*

1. Send DSC Alert
2. Send distress call on VHF CH16
3. Activate EPIRB

#### 1. Send DSC Alert

Ensure radio is switched on. Press and hold the red "distress" button for 5 seconds.

#### 2. Send distress call on VHF CH16

Switch to VHF CH16 and transmit distress call and message:

**MAYDAY MAYDAY MAYDAY**

THIS IS \_\_\_\_\_ (Vessel name 3 times)

MAYDAY followed by vessel name and MMSI number

POSITION \_\_\_\_\_

NATURE OF DISTRESS \_\_\_\_\_

AID REQUIRED \_\_\_\_\_

NUMBER OF PERSONS ON BOARD \_\_\_\_\_

If outside of VHF coverage, send the distress message on

2182 kHz or use other suitable means of communication.

#### 3. Activate EPIRB

Activate EPIRB (or PLB) by following directions printed on beacon body

Take EPIRB with you to the survival craft.

Ensure EPIRB is vertical, with antenna pointed upward.

### Distress, Urgency and Safety Signals

**MAYDAY** means a mobile unit or person is threatened by grave and imminent danger and requests immediate assistance.

**MAYDAY RELAY** means the calling station is relaying a distress message in behalf of a mobile unit or person threatened by grave and imminent danger.

**PAN PAN** means the calling station has a very urgent message to transmit concerning the safety of a mobile unit or a person.

**SECURITE** means the calling station has an important navigational or meteorological warning to transmit.

### Canceling a False VHF-DSC Distress Alert

Transmit on VHF CH16: All stations. All stations, this is \_\_\_\_\_ West, (vessel name) MMSI number \_\_\_\_\_, position \_\_\_\_\_ North, \_\_\_\_\_ West. Cancel my distress alert of date and time. This is \_\_\_\_\_ (vessel name) MMSI number \_\_\_\_\_, Out.

### Phonetic Alphabet

A Alfa	H Hotel	O Oscar	V Victor
B Bravo	I India	P Papa	W Whiskey
C Charlie	J Juliet	Q Quebec	X X-Ray
D Delta	K Kilo	R Romeo	Y Yankee
E Echo	L Lima	S Sierra	Z Zulu
F Foxtrot	M Mike	T Tango	
G Golf	N November	U Uniform	

### EXAMPLE OF DISTRESS PROCEDURE (MAYDAY)

Press distress alert button followed by distress message "MAYDAY, MAYDAY, MAYDAY. This is NONSUCH, NONSUCH, NONSUCH. MAYDAY NONSUCH, NONSUCH, NONSUCH. Ship has taken on water and in danger of capsizing. I require immediate assistance. 4 persons on board, are taking to floater, Over."

### EXAMPLE OF URGENCY PROCEDURE (PAN PAN)

"PAN PAN, PAN PAN, PAN PAN, St. John's Coast Guard Radio, St. John's Coast Guard Radio, This is NONSUCH, NONSUCH, NONSUCH. MMSI 316999999, 5 miles East of Cape Bonaville, 5 persons on board, we have taken on water in lazarette and are presently trying to pump out excess water, Over."

\* MMSI numbers and AIS MLC EPIRB registration are available free-of-charge from Industry Canada and the Maritime Search and Rescue Secretariat, 1-800-727-9414 respectively.

Canada

TP 5876E (02/2005)

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## AMVER - AUTOMATED MUTUAL-ASSISTANCE VESSEL RESCUE SYSTEM

*Note: A 96-hour pre-arrival report to U.S. ports is required under 33 CFR 160.*

The Amver System, operated by the United States Coast Guard, is a maritime mutual assistance program that provides important aid to the development and co-ordination of search and rescue (SAR) efforts in the oceans of the world. Merchant vessels of all nations making offshore passages of more than 24 hours are encouraged to send sail plans and periodic position reports to the Amver Centre in Martinsburg, WV. There is no charge for these radio messages when they are sent through MCTS centres. Information from these messages is entered into a computer that generates and maintains dead reckoning positions for participating vessels throughout their voyages. The predicted locations and SAR characteristics of all vessels known to be within a given area are furnished upon request to recognized SAR agencies of any nation for use during an emergency. Predicted vessels' locations are disclosed only for reasons related to maritime safety.

Amver is a free and voluntary program. An Amver participant is under no greater obligation to render assistance during an emergency than a vessel that is not participating. Benefits to shipping include:

- improved likelihood of rapid aid in emergencies;
- reduced number of calls for assistance to vessels not favourably located;
- reduced time lost for vessels responding to calls for assistance. An Amver participant is under no greater obligation to render assistance during an emergency than a vessel that is not participating.

Details of Amver System operations may be obtained from Amver Maritime Relations Office, U.S. Coast Guard, Battery Park Building, 1 South Street, New York, NY 10004-1499 (Telephone: 212-668-7764, Fax 212-668-7684). Amver instructions are also available at Coast Guard Captain of the Port and Marine Safety Offices in major United States coastal ports. The instructions are published in the following languages: Chinese, Danish, Dutch, English, French, German, Greek, Italian, Japanese, Norwegian, Polish, Portuguese, Spanish, and Swedish. Requests for instructions should state the language desired if other than English. Amver Website: <http://www.amver.com/>.

*Ship Station (Radio) Technical Regulations, 1999* now specify compulsory participation in Amver for certain ships when departing on an offshore voyage of more than 24 hours duration.

The provisions apply to all Canadian ships and to all non-Canadian ships engaged in the coasting trade of Canada. Of this group, the following are exempted:

- fishing vessels engaged in fishing;
- ships operated by the Canadian government on law enforcement duties;
- vessels whose voyages will be within the waters of an Arctic Shipping Safety Control Zone, Hudson Bay, James Bay or Ungava Bay; and
- vessels in other waters provided their voyages are within VHF or MF coverage areas.

It should be noted that the above exemptions do not amount to a prohibition; and that all other ships proceeding on an offshore voyage of more than 24 hours duration are encouraged to participate in Amver.

### **I. To Participate**

Any merchant vessel of one thousand gross tons or more on a voyage of greater than twenty-four hours to anywhere on the globe is to be part of the Amver system. International participation is voluntary regardless of vessel's or company's flag, country of origin, or destination.

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## II. The Information Reported

Information voluntarily provided by vessels to Amver is kept strictly confidential and is protected by the Coast Guard. It will be released only for safety purposes.

## III. What and When You Report

- A. Sail plan message should be sent on or before departure.
- B. Position Reports should be sent within twenty-four hours of departure and subsequently no less frequently than every forty-eight hours until arrival.
- C. Arrival Reports should be sent immediately prior to or upon arrival at the Port of Destination.
- D. Reports are to be sent during the Radio Officer's normal duty hours.
- E. At the discretion of the vessel, reports may be sent more frequently than the above schedule, as, for example, in heavy weather or under other adverse conditions.

## IV. Report Format

As previous Amver participants will note, the format described below represents a change which serves two purposes: First, the new format will permit the automated data processing system to enter your information into Amver more accurately and efficiently. Second, the new format conforms to the International Maritime Organisation (IMO) proposed standard, thus reducing the number of different formats in use. As other systems also adopt the IMO format, we will have moved closer to a single format worldwide.

## V. Amver System Communications Network

The following methods are recommended for ships to transmit Amver Sail Plan, Position, Deviation and Arrival reports. Details are available on the Amver Website at <http://www.amver.com/>.

**Electronic Mail via the Internet:** Amver address: [amvermsg@amver.com](mailto:amvermsg@amver.com)

**AMVER/SEAS "Compressed Message" via Inmarsat-C via TELENOR:** Amver address: NOAA telephone number entered in the ADDRESSBOOK. For information, please see the instruction sheet for your brand of Inmarsat-C transceiver. AMVER/SEAS software can be downloaded from the Internet at:

<http://seas.amverseas.noaa.gov/seas>

*or requested from:* TELENOR Satellite Services  
1101, Wootton Parkway  
Rockville, Maryland 20852  
1-301-838-7800

➡Email: [customercare@telenor.com](mailto:customercare@telenor.com)

**HF Radiotelex Service of U.S. Coast Guard Communications Stations:** Full information on how to send Amver messages this way can be found at: <http://www.navcen.uscg.gov/>.

➡ **HF Radio at no cost via Coast Guard Contractual Agreements** with the following companies:

- *Mobile Marine Radio (WLO)*
- *Mobile (WCL)*
- *Marina Del Ray (KNN)*
- *Seattle (KLB)*

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**Telex: Amver Address:** (0) 230 127594 AMVERNYK

**Telefax:** To the USCG Operations Systems Centre in Martinsburg: 1-304-264-2505

If messages are relayed through Canadian Coast Guard Ships no ship charge will be assessed. All Amver messages forwarded via the stations listed should be addressed to Amver Halifax, rather than COAST GUARD New York, to ensure that no charge is applied in delivery.

## **VI. Amver Voyage Report Types**

There are four types of Amver Reports - Sail Plan, Arrival, Position, and Deviation Reports.

- A. Reporting format. Each line of Amver Report text starts with a line identifier. Line identifiers are "AMVER" or a single letter. The line identifier and the data items on the line are each separated from each other by a single slash ("/"). Lines are terminated by two slashes ("//").
- B. Reporting data. Amver participants need to be familiar with four types of reports - Sail, Arrival, Position, and Deviation Reports. Note that Amver permits sail plan and departure to be combined into a single report. Amver accepts sail plan information separately - for example, several days prior to departure. Report identifiers are as follows:
  - AMVER/SP// Sail Plan & Departure
  - AMVER/PR// Position Report
  - AMVER/FR// ➡Final Arrival Report.
  - AMVER/DR// Deviation Report.
- C. Details. Paragraph IX includes a discussion of each report type. Each example is followed by an explanation. Note that not all the lines in the example are necessary for each type of report. The required and optional lines are discussed in each section.

## **VII. Other Required Information**

Amver also needs other information, which might be useful in an emergency. This includes data such as the ship length, communications equipment, radio watch schedule, speed, rig, and so forth. This information is collected separately once, by completion of the Search and Rescue Questionnaire (SAR-Q) found on the Amver web site at <http://www.amver.com/> which is then retained in the automatic data processing system, periodically validated, and used only for search-and-rescue purposes.

## **VIII. Release of Information**

All voluntary information collected under these instructions will be only released to recognized search-and-rescue authorities. Information regarding vessels required to participate in Amver will be forwarded to the U.S. Maritime Administration, via the keyword MAREP on the Y-Line.

**IX. Description of Voyage Reports**

An example and explanation of each of the four types of Amver reports follows. Numbers in parentheses refer to footnotes at the end of the section.

- A. Sail Plan & Departure Report.** The “L” lines contain routing and “turnpoint” information needed by Amver. Amver needs data about every intended turnpoint, but also accepts information about any points along the intended track, even though they might not be turnpoints. Turnpoint information is needed by Amver to maintain plot accuracy.

EXAMPLE:	EXPLANATION:
AMVER/SP//	<b>Required</b> -
A/SANDY JOAN//ABCD//	AMVER/SP//
B/110935Z//	A /vessel/name/International Radio Call Sign//
E/145//	B /intended time of departure or departure time //
	(1)
F/126//	G /port of departure/latitude//longitude// (2)
G/NORVOROSK/4510N/03820E//	I /port of destination/latitude//longitude/estimated time of arrival//(1) (2) (3)
I/GIBRALTERGI/3600N/00600W/140730Z//	L / ..... route information ...// (1) (3) (4)
L/RL/140/4130N/02910E/112000Z//	Z // end of report
L/RL/140/4010N/02620E/112300Z//	
L/RL/140/3630N/02330E/120330Z//	<b>Optional</b> -
L/RL/140/3650N/01520E/121500Z//	E /current course// (5)
L/RL/140/3800N/01000E/130100Z//	F /estimated average speed// (6)
L/LR/060//	M /current coastal radio station//next coastal radio station, if any//
M/GKA/GKM//	
V/MD/NURSE//	V /onboard medical resources// (7)
X/NEXT/REPORT/120900Z//	X /up to 65 characters of amplifying comments// (8)
Z/SITOR/INSTALLED/SELCALL/NUMBER/IS/99999//	(9)
Z//EOR	

**B. ➡Final Arrival Report**

EXAMPLE:	EXPLANATION:
AMVER FR//	<b>Required</b> -
A/SANDY/JOAN/ABCD	AMVER/FR//
K/NEW YORK/US/4040N/07420W/180600Z//	A /vessel name/International Radio Call Sign//
X/PROBLEMS WITH MF XMTR AGENT/ADVISED//	K /port name/latitude/longitude/time of arrival// (1)
Z//EOR	(3)
	Z // end of report
	<b>Optional</b> -
	X /up to 65 characters of amplifying comments// (8)
	(9)

**C. Position Report**

<b>EXAMPLE:</b>	<b>EXPLANATION:</b>
AMVER/PR//	<b>Required -</b> AMVER/PR//
A/SANDY/JOAN/ABCD//	A /vessel name International Radio Call Sign//
B/120300Z//	B /time at position// (1)
C/3630N/02330E//	C /latitude/ longitude// (3)
E/145//	Z //end of report
F/126//	
M/GKM//	<b>Optional -</b>
X/NEXT REPORT/131800Z//	E /current course (5)//
Z//EOR	F /average speed (6)//
	M /current coastal radio station/ next coastal radio station, if any//
	X /up to 65 characters of amplifying comments (8) (9)//

**D. Deviation Report** Used to report sail plan and other changes.

<b>EXAMPLE:</b>	<b>EXPLANATION:</b>
AMVER/DR//	<b>Required -</b> AMVER/DR//
A/SANDY/JOAN/ABCD//	A /vessel name International Radio Call Sign//
B/120300Z//	Z //end of report
E/095//	
F/220//	<b>One or more of the following optional items -</b>
G/NORVOROSK/4470N/03780E//	B /intended time of departure// (1)
I/NEW YORK US/4040N/07420W/180800Z//	E /intended course// (5)
L/GC/220//	F /intended average speed// (6)
M/GKA/WSL/NMN//	G /port of departure/latitude/longitude// (2)
V/MD/NURSE//	I /port of destination/latitude/longitude/estimated time of arrival// (1) (2) (3)
X/DIVERTING BEST SPEED TO NEW YORK US//	L /..... route information ....// (1) (3) (4)
Z//EOR	M /current coastal radio station/ next coastal radio station, if any//
	V /onboard medical resources// (7)
	X /up to 65 characters of amplifying comments// (8) (9)

**Footnotes:**

- (1) All times must be expressed as a six-digit group giving date of month (first two digits), hours and minutes (last four digits). Only Coordinated Universal Time (i.e. Greenwich Mean Time) is to be used. The six-digit date-time-group is to be followed by either Z or GMT. The month is optional, and may be added, if appropriate. The first three digits of the English-language month are used. The following examples are acceptable:

290900Z

290900 Z

290900Z DEC

- (2) Port latitude longitude refers to the geographic position of the pilot station. Both port name and geographic position are required from U.S. flag vessels.

- 
- (3) Latitude is a four-digit group expressed in degrees and minutes, and suffixed with “N” for north or “S” for south. Longitude is a five-digit group expressed in degrees and minutes, and suffixed with “E” for east or “W” for west.  
For example: C/4000N/03500W//
- (4) The “L” lines contain most of the sail plan information. As many “L” lines as needed may be used. The “L” lines contain routing data to each of the intermediate points, and to the destination. Data about all turnpoints are required, unless the voyage will follow a great circle with no delays at intermediate points. In addition to turnpoint information, data about other points along each leg are useful. Following, is the information desired for each intermediate point: navigation, method, leg speed, latitude, longitude, port or landmark name ETA estimated time of departure.

For example:

L/RL/125/0258N/07710W/ABACO/111200Z//  
L/RL/125/0251N/07910W/NWPROVCHAN/112145Z//  
L/RL/125/0248N/08020W/120255Z//  
L/RL/125//

NAVIGATION METHOD IS REQUIRED. It is either “GC” for great circle, or “RL” for rhumb line.

LEG SPEED is useful, but is not required. See footnote (6).

LATITUDE LONGITUDE IS REQUIRED. See footnote (3).

PORT OR LANDMARK NAME is useful, but is not required.

ETA IS REQUIRED. See footnote (1).

ESTIMATED TIME OF DEPARTURE IS REQUIRED, if the ship will lay over at the intermediate point.

A final NAVIGATION METHOD is required to route the ship to its destination. A final LEG SPEED is useful, but not required.

- (5) True course is a three-digit group.
- (6) Speed is a three-digit group in knots and tenths of knots. For example, 20.5 knots would be written as 205, without a period or decimal point.
- (7) If the optional “V” line is used, one or more of the following is required:  
/MD/ for physician  
/PA/ for physician’s assistant  
/NURSE/  
/NONE/  
For example: V/DOCTOR/NURSE//
- (8) Any information provided in the Remarks line will be stored in the Amver’s automatic data processing system for later review. However, no immediate action will be taken, nor will the information be routinely passed to other organizations. The remarks line cannot be used as a substitute for sending information to other search-and-rescue authorities or organizations. However, Amver will, at the request of other SAR authorities, forward remarks line information to the requesting agencies.
- (9) Next report information is not currently used by the Amver System, but is expected to aid in future development.

## DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS)

Since May 2000, Full Operational Service (FOS) of the Canadian Coast Guard DGPS service has been available from 19 DGPS stations located on the East and West coasts of Canada and parts of the Great Lakes. DGPS corrections are broadcast from medium frequency (MF) radiobeacon transmitters located to cover selected marine areas and waterways. The broadcasts are in accordance with international standards for radiobeacon DGPS services. DGPS provides continuous precise positioning of better than 10 metres for 95% or better of the time (provided that suitable DGPS receiver equipment is utilized, properly installed and maintained).

Additional information on the use of the DGPS service will be announced through Notices to Mariners. General information is also available from the Canadian Coast Guard Website: <http://www.ccg-gcc.gc.ca/eng/CCG/DGPS/Home>.

The corrections from the DGPS service are calculated at the reference station in the NAD 83 coordinates. To process the information properly, DGPS receivers should be adjusted to the WGS 84 setting. Although WGS 84 and NAD 83 are essentially the same (only a few centimetres difference), it is highly recommended that all DGPS receivers be set to WGS 84 to take full advantage of the precision of DGPS. When utilizing charts other than NAD 83, DGPS latitude and longitude positions must be adjusted to the appropriate datum using the information contained in the charts.

The table that follows provides information on existing DGPS broadcasts. A list of United States Coast Guard (USCG) DGPS transmitters providing coverage in Canadian waters may be obtained directly from the USCG. <http://www.navcen.uscg.gov/>.

Figures 1, 2 & 3 show the nominal coverage from existing broadcast stations. Users should be aware that coverage is subject to short and long term variations due to environmental and seasonal conditions.

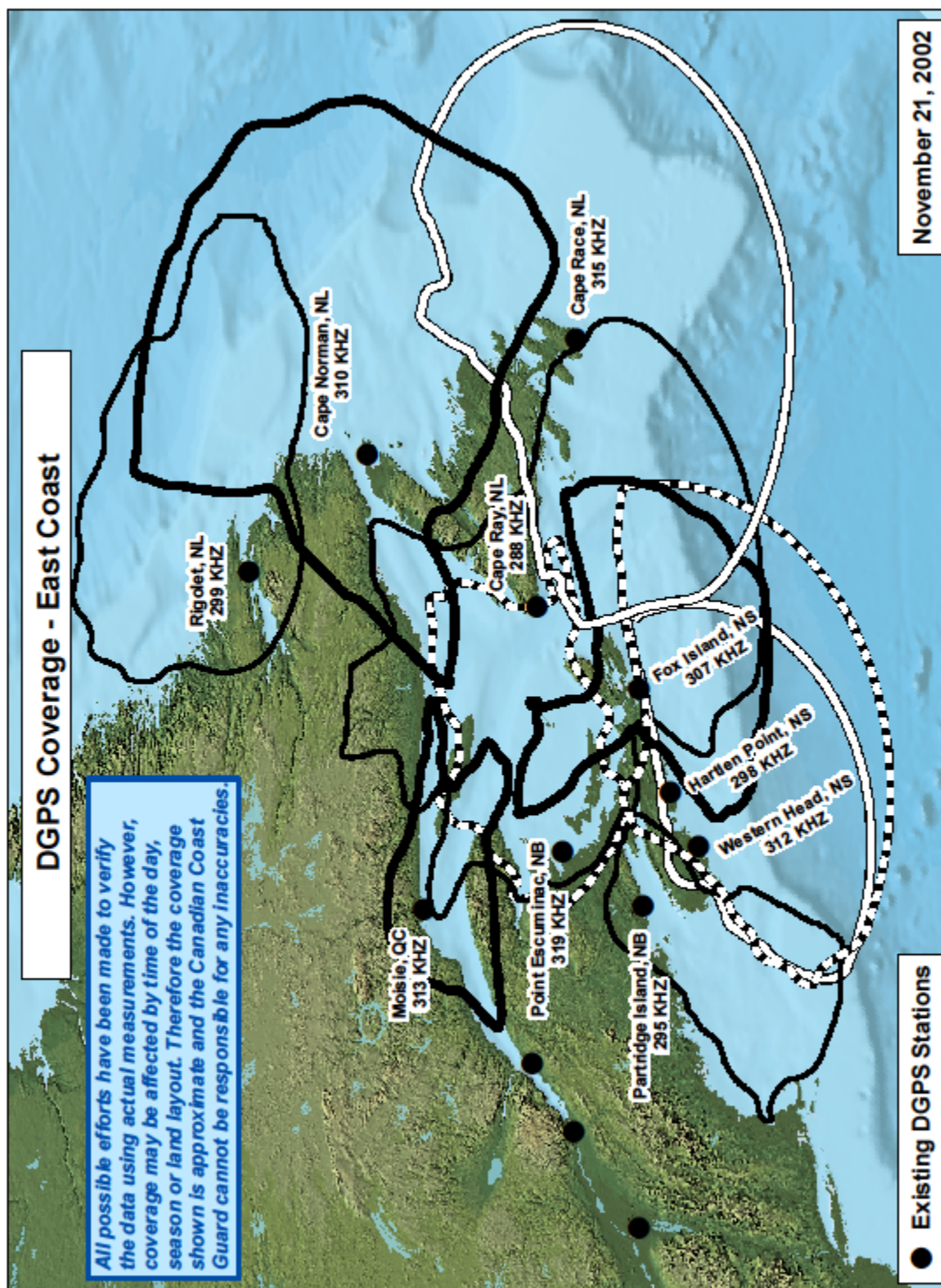
**Canadian Coast Guard DGPS BROADCASTS - St. Lawrence River and Atlantic Coast**

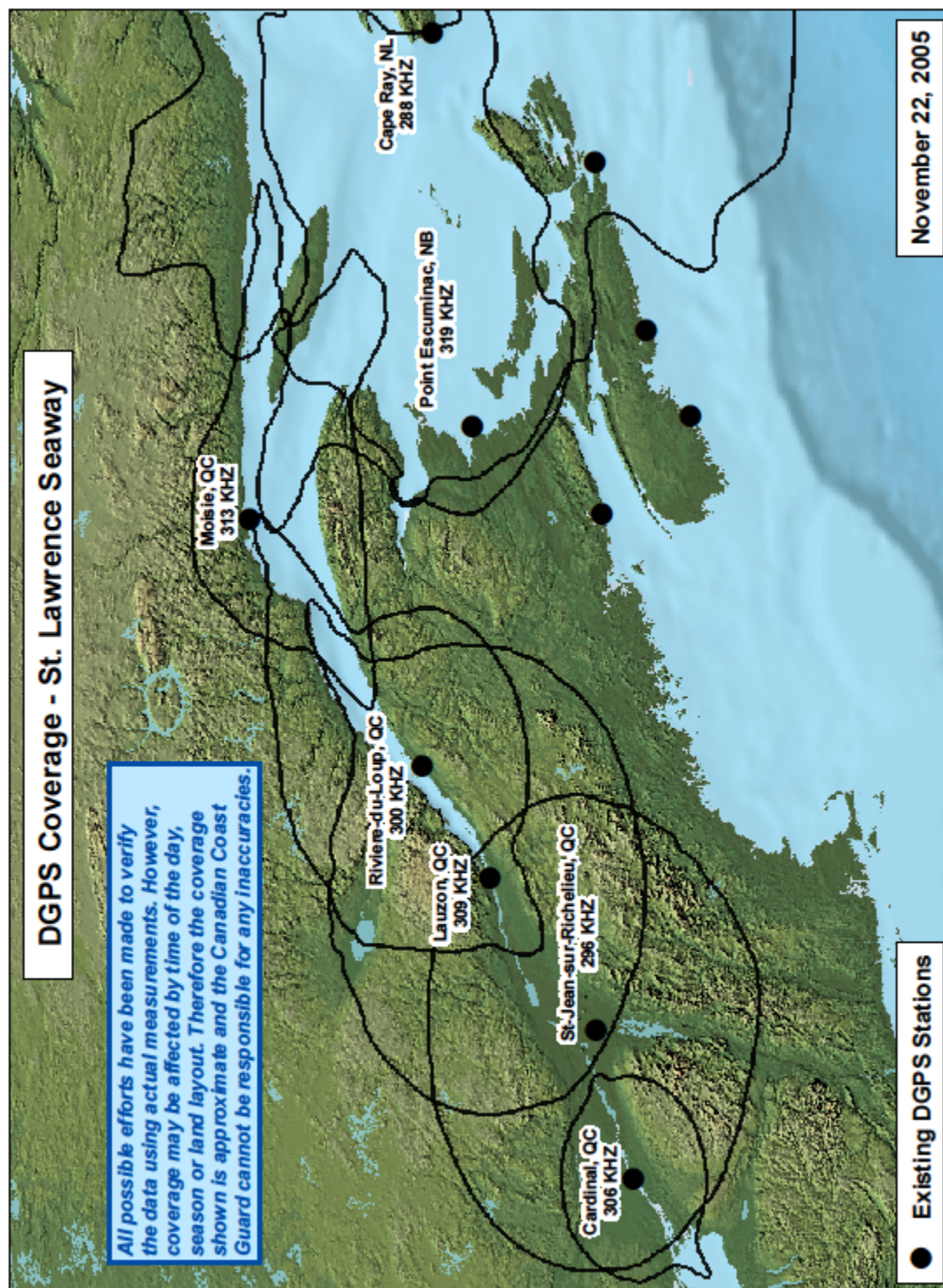
Station Name	Location NAD 83	Frequency & Transmission rate	IALA Reference Station ID	IALA Radio beacon ID	Remarks
St. Jean sur Richelieu, Que.	45°19'N 73°19'W	296 kHz 200bps	312, 313	929	Full operational service
Lauzon, Que.	46°49'N 71°10'W	309 kHz 200bps	316, 317	927	Full operational service
Rivière du Loup, Que.	47°46'N 69°36'W	300 kHz 200bps	318, 319	926	Full operational service
Moisie, Que.	50°12'N 66°07'W	313 kHz 200bps	320, 321	925	Full operational service
Point Escuminac, N.B.	47°04'N 64°48'W	319 kHz 200bps	332, 333	936	Full operational service
Partridge Island, N.B.	45°14'N 66°03'W	295 kHz 200bps	326, 327	939	Full operational service
Western Head, N.S.	43°59'N 64°40'W	312 kHz 200bps	334, 335	935	Full operational service
Hartlen Point, N.S.	44°36'N 63°27'W	298 kHz 200bps	330, 331	937	Full operational service
Fox Island, N.S.	45°20'N 61°05'W	307 kHz 200bps	336, 337	934	Full operational service
Cape Race, N.L.	46°46'N 53°11'W	315 kHz 200bps	338, 339	940	Full operational service
Cape Ray, N.L.	47°38'N 59°14'W	288 kHz 200bps	340, 341	942	Full operational service
Rigolet, N.L.	54°11'N 58°27'W	299 kHz 200bps	344, 345	946	Full operational service
Cape Norman, N.L.	51°30'N 55°49'W	310 kHz 200bps	342, 343	944	Full operational service



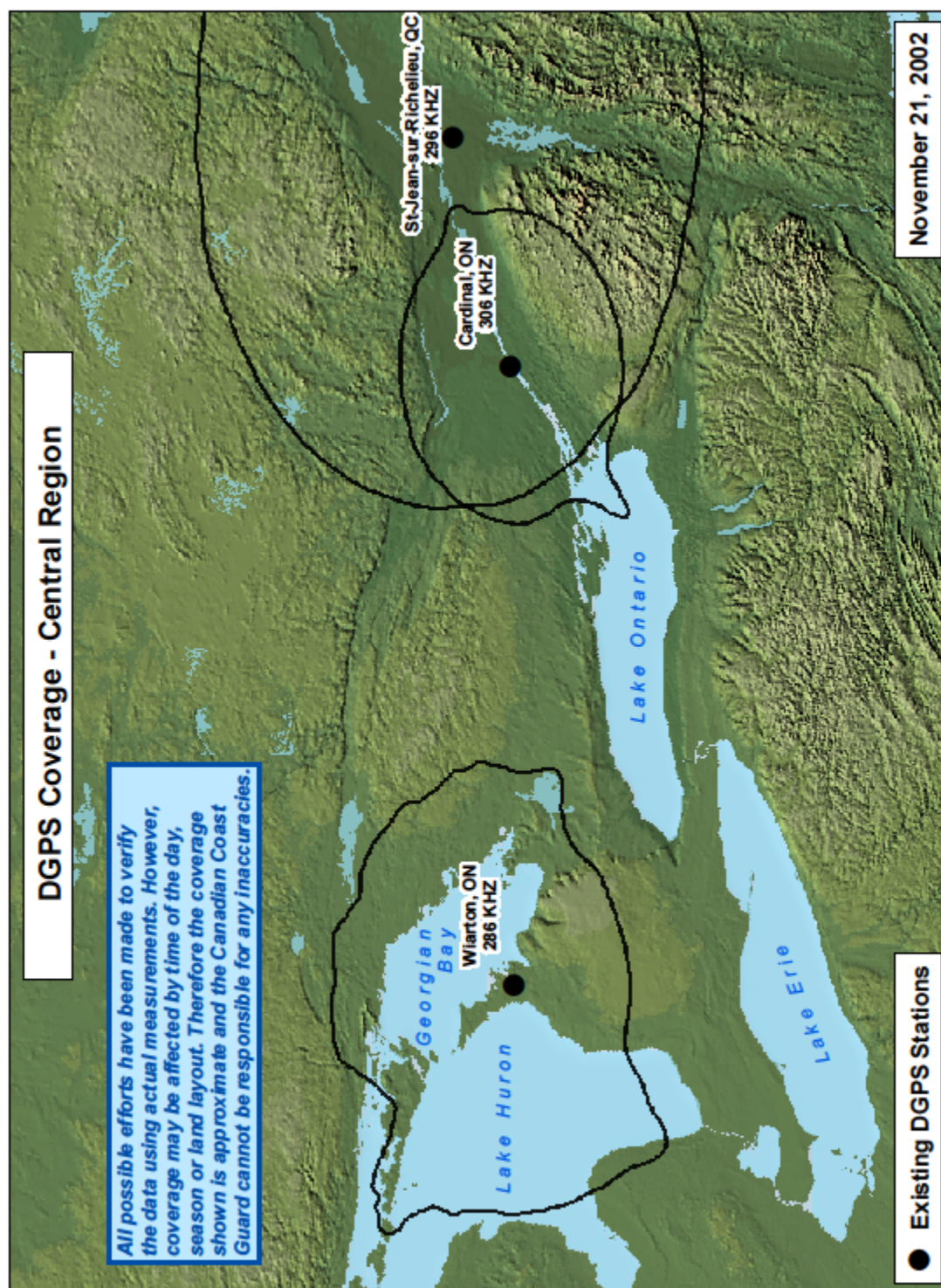
**Canadian Coast Guard DGPS BROADCASTS - Great Lakes and St. Lawrence River**

<b>Station Name</b>	<b>Location NAD83</b>	<b>Frequency &amp; Transmission Rate</b>	<b>IALA Reference Station ID</b>	<b>IALA Radio beacon ID</b>	<b>Remarks</b>
Cardinal, Ont.	44°47'N 75°25'W	306khz 200bps	308, 309	919	Full operational service
Wiarton, Ont.	44°45'N 81°07'W	286khz 200bps	310, 311	918	Full operational service









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**PRE-ARRIVAL INFORMATION REPORT (PAIR)**

**Note:** pursuant to the *Marine Transportation Security Regulations*, the following pre-arrival information requirement does not apply to vessels operating solely on the Great Lakes or to the portions of a vessel's voyage on the Great Lakes after pre-arrival information has been given prior to its entrance into the St. Lawrence Seaway, neither, to fishing vessels, pleasure craft and government vessels.

The master of the following vessels, engaged on a voyage from a port in one country to a port in another country:

- SOLAS vessel of 500 tons gross tonnage or more or is carrying more than 12 passengers;
- NON-SOLAS vessel that is more than 100 tons gross tonnage, other than a towing vessel;
- NON-SOLAS vessel that carries more than 12 passengers; or
- NON-SOLAS vessel that is a towing vessel engaged in towing a barge astern or alongside or pushing ahead, if the barge is carrying certain dangerous cargoes.

shall ensure their vessel does not enter Canadian waters unless the master submits their pre-arrival information to a Canadian Marine Communications and Traffic Services (MCTS) centre before entering Canadian waters.

All pre-arrival information must be provided at least 96 hours prior to entering Canadian waters unless the total duration of the voyage before entering Canadian waters is less than 96 hours in which case the notification must be provided at least 24 hours prior to entering Canadian waters.

If the duration of the segment of the voyage before entering Canadian waters is less than 24 hours, vessels are required to send a pre-arrival report as soon as practicable before entering Canadian waters but no later than the time of departure from their last port of call.

The Pre-Arrival Information must be sent to one of the addresses below:

- a) Vessels planning to enter Canadian waters inbound to a Canadian port on the West Coast shall send pre-arrival information to the Canadian Coast Guard Regional Marine Information Centre (RMIC) via one of the following methods listed below:

Email: [Offshore@rmic.gc.ca](mailto:Offshore@rmic.gc.ca)

INMARSAT: telex 04352586 "CGTC VAS VCR"

any Canadian Coast Guard MCTS Centre, free of charge; or  
directly to CVTS Offshore by Fax: (604) 666-8453

- b) Vessels planning to enter Canadian waters inbound to a Canadian port on the East Coast including a Canadian or American port in the Great Lakes shall send pre-arrival information to ECAREG Canada via one of the following methods listed below:

St. John's MCTS Centre

Facsimile - (709) 772-5369

Telegraphic Identifier - CCGTC SNF

Email: [ecaregsnf@innav.gc.ca](mailto:ecaregsnf@innav.gc.ca)

Halifax MCTS Centre

Facsimile - (902) 426-4483

Telegraphic Identifier - CCG MRHQ DRT

Email: [hlxecareg1@innav.gc.ca](mailto:hlxecareg1@innav.gc.ca)

- c) Vessels planning to enter Canadian waters inbound to a Canadian port within the Canadian Arctic Zone shall send pre-arrival information to NORDREG Canada via one of the following methods listed below:

Iqaluit MCTS Centre  
Facsimile: 867-979-4264  
Telex (Telefax): 063-15529  
Telegraphic Identifier: NORDREG CDA  
Email: [iqanordreg@innav.gc.ca](mailto:iqanordreg@innav.gc.ca)

➡Operational from approximately mid-May to late December

Prescott MCTS Centre  
Facsimile: 1-613-925-4519  
Email: [iqanordreg@innav.gc.ca](mailto:iqanordreg@innav.gc.ca)

➡Operational from approximately late December to mid-May

It is the responsibility of the Master of the vessel to ensure all information provided to the Government of Canada (Transport Canada) in the pre-arrival information is complete and accurate. Masters of vessels subject to the *Marine Transportation Security Regulations* (as described above) failing to submit or submitting an incomplete or inaccurate pre-arrival information risk subjecting their vessel to control actions such as, but not limited to: inspection, detention, redirection or expulsion from Canadian waters.

Vessels can obtain a blank template of the 96 hour pre arrival report by sending an email to [96@tc.gc.ca](mailto:96@tc.gc.ca).

The Master of a vessel shall ensure that the following pre-arrival information in respect of the vessel is reported:

- a) its name;
- b) its country of registry;
- c) the name of its registered owner;
- d) the name of its operator;
- e) the name of its classification society;
- f) its international radio call sign;
- g) its International Ship Security Certificate, Canadian Vessel Security Certificate or ship security compliance document number;
- h) its International Maritime Organization number, if it is a SOLAS ship;
- i) the date of issuance, date of expiry and name of the issuing body of its International Ship Security Certificate, Canadian Vessel Security Certificate, or ship security compliance document;
- j) confirmation that the vessel has an approved vessel security plan;
- k) the current MARSEC level;
- l) a statement of *when* its last 10 declarations of security were completed;
- m) details of any security threats to the vessel during the last ten calls at marine facilities;
- n) a statement as to whether the vessel consents to tracking by the Canadian Government;
- o) details of any deficiencies in its security equipment and systems, including the communication systems, and the way in which the master of the vessel intends to correct them;
- p) if applicable, the name of its agent and their 24-hour telephone and facsimile numbers;
- q) if applicable, the name of the vessel's charterer;
- r) its position and time at which it reached that position;
- s) its course and speed;
- t) its destination and estimated time of arrival at its destination;
- u) the name of a contact person at the marine facility that it will visit and their 24-hour telephone and facsimile numbers;
- v) the following information in respect of its last ten marine facilities visited:
  - i) the receiving facility;
  - ii) the marine facility visited;
  - iii) the city and country;
  - iv) the date and time of arrival, and
  - v) the date and time of departure;
- w) a general description of the cargo, including cargo amount; and
- x) if applicable, the presence and description of any dangerous substances or devices on board.

If the master reported pre-arrival information more than 24 hours before entering Canadian waters, the master of a vessel shall ensure that the vessel does not enter Canadian waters unless the master reports any change in that information 24 hours before entering Canadian waters to the MCTS centre in accordance with the instructions set out in the most recent edition of the Canadian Coast Guard *Radio Aids to Marine Navigation*.

It is recommended that a complete copy of the vessel's Interim International Ship Security Certificate (IISCC), International Ship Security Certificate (ISSC), Interim Canadian Vessel Security Certificate (ICVSC), Canadian Vessel Security Certificate (CVSC) or Ship Security Compliance document, and any pages containing the Endorsement information, is to be included with the Pre Arrival Information Report.

## SERVICES

### NOTICES TO SHIPPING

Notices to Shipping (NOTSHIPS) issued for the Atlantic, Great Lakes and Arctic areas of Canada are assigned an alphanumeric designator. The alphanumeric designator consists of an alpha character which identifies the Canadian Coast Guard Notices to Shipping issuing authority. The alpha character is followed by a number commencing with the number 001 on January 1 each year and subsequently increasing with each new notice until years end. Alpha designators utilized in Canadian Notices to Shipping are as follows:

A – Arctic                      C – Central                      M – Maritimes                      N – Newfoundland                      Q – Quebec

#### Broadcast NOTSHIPS

Broadcast times and radio frequencies for NOTSHIP broadcasts by Canadian Coast Guard Marine Communications and Traffic Services centres are listed in Part 2 of this publication.

#### Written NOTSHIPS

A Written NOTSHIP contains information which is anticipated to remain in effect for an extended period of time. These notices have previously been broadcast in full for an initial period of 48 hours and then placed, for an additional period of 5 days, on the Active NOTSHIP List which lists the NOTSHIP number and provides a brief description.

➡ Written NOTSHIPS bear the same number as the corresponding broadcast NOTSHIP.

Written NOTSHIPS are available as listed below:

#### ➡Distribution of Written Notices to Shipping

Designator	NOTSHIP Authority	Email	Internet
A	Central & Arctic Region	X	<a href="http://www.ccg-gcc.gc.ca/eng/CCG/Notship">http://www.ccg-gcc.gc.ca/eng/CCG/Notship</a>
C		X	
M	Maritimes Region		<a href="http://www.ccg-gcc.gc.ca/eng/CCG/Notship">http://www.ccg-gcc.gc.ca/eng/CCG/Notship</a>
N	Newfoundland & Labrador Region		<a href="http://www.ccg-gcc.gc.ca/eng/CCG/Notship">http://www.ccg-gcc.gc.ca/eng/CCG/Notship</a>
Q	Québec Region		<a href="http://www.ccg-gcc.gc.ca/eng/CCG/Notship">http://www.ccg-gcc.gc.ca/eng/CCG/Notship</a> <a href="http://www.marinfo.gc.ca/">http://www.marinfo.gc.ca/</a>

Masters are reminded of the regulatory requirement to report any danger, potential danger or hazard to navigation which they may encounter. Reports should be forwarded to the appropriate MCTS centre as soon as possible to ensure the widest distribution to mariners through broadcast NOTSHIPS.

#### Information Updates

Notices to Mariners contain information which serves to correct charts and related publications. Up-to-date information is available to vessels inbound for Canadian waters on any changes which have occurred between the date of issue of the most recent monthly edition of Canadian Notices to Mariners held on board. Vessels wishing to avail themselves of this service should send their request directly to *ECAREG* or *NORDREG Canada*. Requests may also be routed via any MCTS centre as listed in Part 2 of this document.



When making this request the following information shall be included:

- ship's name and call sign
- present position, destination and intended route
- most recent monthly edition of Canadian Notices to Mariners held on board
- list of recent Notices to Shipping held on board.

Ice information, ice routing and icebreaker assistance may be obtained through the Eastern Canada Traffic System (*ECAREG CANADA*) or the Arctic Canada Traffic System (*NORDREG CANADA*). Refer to Notice Number 6 of the Annual Edition, Notices to Mariners or the publication "Ice Navigation in Canadian Waters" for additional information.

## **WORLD-WIDE NAVIGATIONAL WARNING SERVICE (WWNWS)**

### **(a) NAVAREAS XVII and XVIII: Navigational Warnings**

The Canadian Coast Guard has assumed the responsibility of NAVAREA coordination for NAVAREAs XVII and XVIII as part of the World-Wide Navigational Warning Service (WWNWS). The service was declared to be in "Full Operational Condition" as of June 1, 2011.

NAVAREAs XVII and XVIII warnings are broadcast in the English language using the following rectangular areas until SafetyNET Inmarsat-C or mini-C Maritime terminals operating in the arctic waters have been updated:

NAVAREA XVII	NAVAREA XVIII
82 00N 175 00E	82 00N 120 00W
82 00N 120 00W	82 00N 035 00W
62 00N 120 00W	62 00N 035 00W
62 00N 175 00E	62 00N 120 00W

Reception of rectangular addressed messages should be automatic providing the ship's position is inside the addressed area. However, mariners should check their manufacture's operation manuals to obtain information on the setting of their EGC equipment to receive relevant SafetyNET messages.

NAVAREA XVII (POR): 1130 UTC and 2330 UTC

NAVAREA XVIII (AOR-W): 1100 UTC and 2300 UTC

During the Arctic navigational season, NAVAREA XVII and XVIII warnings applicable to the Canadian Search and Rescue boundaries for waters North of 70 degrees latitude are broadcast (with limits to coverage area and reliability) using High Frequency Narrow Band Direct Printing (HF-NBDP) on 8416.5 kHz at 0330 UTC and 1530 UTC. Refer to Iqaluit MCTS, Part 2, for details about the broadcast content.

Comments concerning the reception of NAVAREA XVII and XVIII broadcasts, especially above 75°N, would be appreciated and sent to:

#### **NAVAREA XVII and XVIII**

Prescott MCTS Centre

Telephone: 1-613-925-0666

Facsimile: 1-613-925-4519

E-mail: [navarea17.18@innav.gc.ca](mailto:navarea17.18@innav.gc.ca)

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**NAVAREAS IV AND XII**

The United States of America is responsible for NAVAREAs IV and XII.

NAVAREA IV covers the North Atlantic Ocean West of 35°W and north of 7°N. NAVAREA IV warnings are broadcasts over the AOR-W satellite at 1000UTC and 2200UTC. Ice reports for the North Atlantic are broadcast at 1200UTC. NAVAREA IV warnings are broadcast over NBDP from: Boston (NMF) at 0140 UTC on 6314 kHz, 8416.5 kHz, and 12579 kHz (FIB) and at 1630 UTC on 8416.5 kHz, 12579 kHz, and 16806.5 kHz (FIB).

NAVAREA XII covers the North Pacific Ocean east of 180° and north of the equator, plus the area north of 3° 25'S and east of 120°W. NAVAREA XII warnings are broadcasts over the POR satellite at 1030UTC and 2230UTC. These messages are broadcast over NBDP by Honolulu (NMO) at 0330 and 1730 UTC daily, on 8416.5 kHz, 12579 kHz, and 22376 kHz (FIB).

Consult the publication NP283 (2) *Admiralty List of Radio Signals*, Volume 3, Part 2, for the listing of all NAVAREA Coordinators and broadcast schedules.

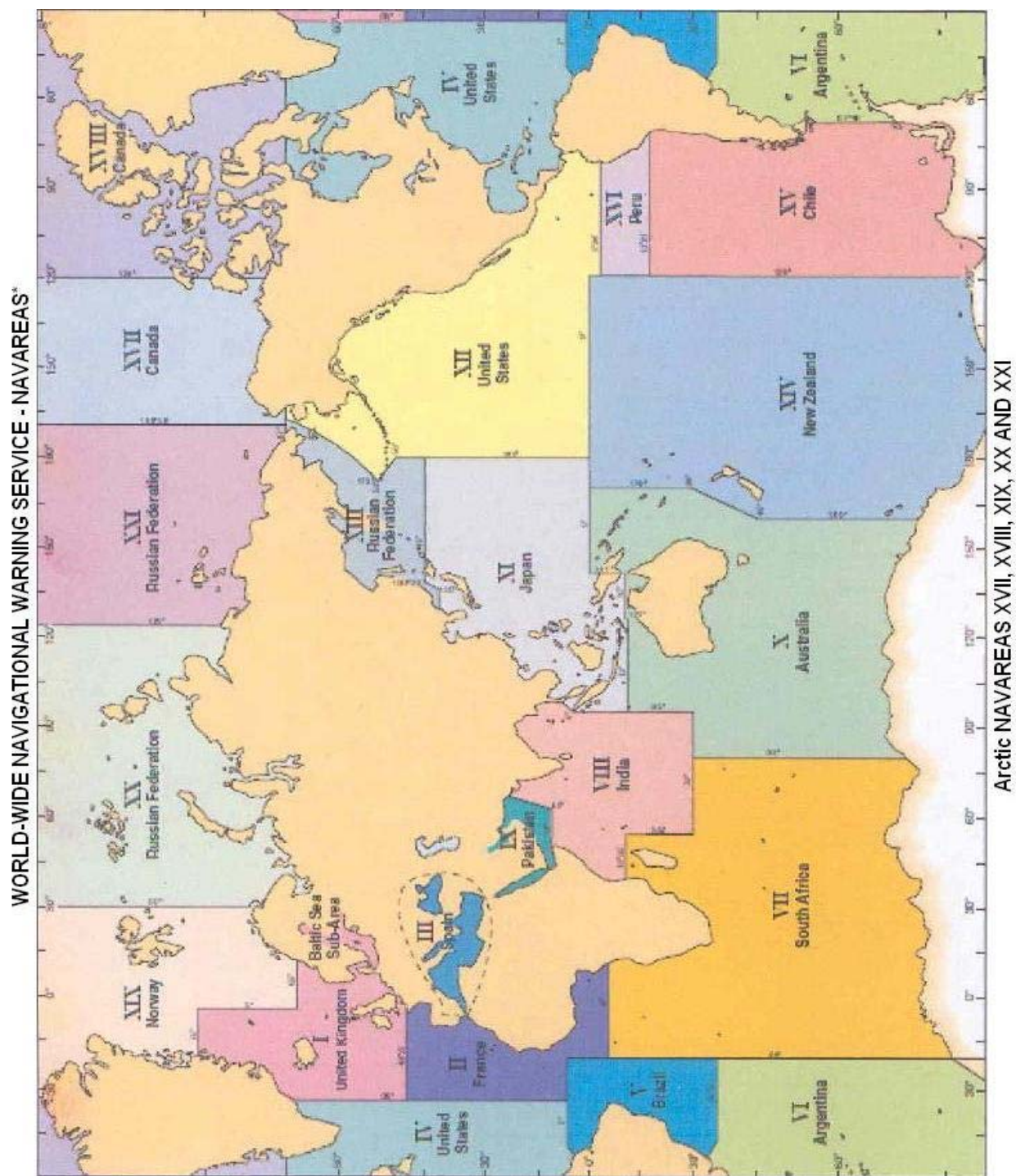
➡ The NAVAREA warning system should normally be sufficient for the ships which proceed along the main oceanic routes of an Area. However, in some waters knowledge of the coastal warnings may prove necessary.

**b) Subject Matter for NAVAREA Warnings Messages**

The following subjects are considered suitable for broadcast as NAVAREA warnings. This list is not exhaustive and should be regarded only as a guideline. Furthermore, it presupposes that sufficiently precise information about the item has not previously been disseminated in a Notice to Mariners:

1. casualties to lights, fog signals and buoys and other aids to navigation affecting main shipping lanes;
2. the presence of dangerous wrecks in or near main shipping lanes and if relevant, their marking;
3. establishment of major new aids to navigation or significant changes to existing ones when such establishment or change might be misleading to shipping;
4. the presence of large unwieldy tows in congested waters;
5. drifting hazards including derelict ships, ice, mines, containers and other large items;
6. areas where search and rescue (SAR) and anti-pollution operations are being carried out (for avoidance of such areas);
7. the presence of newly-discovered rocks, shoals, reefs and wrecks likely to constitute a danger to navigation, and, if relevant, their marking;
8. unexpected alteration or suspension of established routes;
9. cable or pipe-laying activities, the towing of large submerged objects for research or exploration purposes, the employment of manned or unmanned submersibles, or other underwater operations constituting potential danger in or near shipping lanes;
10. the establishment of research or scientific instruments in or near shipping lanes;
11. the establishment of offshore structures in or near shipping lanes;

12. significant malfunction of radio-navigation services and shore-based maritime safety information and radio services;
13. information concerning special operations which might affect the safety of shipping, sometimes over wide areas, e.g. naval exercises, missile firings, space missions, nuclear tests, ordnance dumping zones, etc. It is important that where the degree of hazard is known, this information is included in the relevant warning. Whenever possible, such warnings should be originated not less than five days in advance of the scheduled event and reference may be made to relevant national publications in the warning;
14. acts of piracy and armed robbery against ships;
15. tsunamis and other natural phenomena, such as abnormal changes to sea level;
16. World Health Organization (WHO) health advisory information; and
17. security-related requirements, in accordance with the requirements of the International Ship and Port Facility Security Code only.



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## CELLULAR PHONE (\*16) SERVICE - MARINE EMERGENCIES

MCTS centres in certain parts of Canada are connected to the cellular telephone network system where cellular telephone users can, **in an emergency situation only, dial \*16 or #16 (dependent upon the service provider)** on their cellular telephone to access an MCTS centre in order to obtain assistance.

Mariners are cautioned that **a cellular telephone is not a good substitute for a marine radio** because the maritime mobile radio safety system in the southern waters of Canada is based principally on VHF communications. Furthermore, VHF has the advantage that a call can be heard by the closest MCTS centre(s) and by ships in the vicinity which could provide immediate assistance. On the other hand, the telephone cellular network is a party-to-party system and the benefit of the broadcast mode in an emergency situation cannot be obtained.

Mariners are reminded that the use of marine radio distress frequencies to obtain assistance in an emergency situation is the best option and that cellular telephone should be used only as an alternative should the VHF radiotelephone set not be available. Standard distress alerting equipment, such as marine radio and EPIRBs should never be replaced by cellular phone alone.

**Note:** Details of this service may be obtained by contacting local cellular telephone companies; however, mariners are cautioned that not all cellular telephone companies provide this service.

## DIRECTION FINDING (VHF/DF) SERVICE

MCTS centres in certain parts of Canada are provided with VHF/DF equipment, primarily to determine or confirm the bearing, from a DF facility, of a vessel requiring assistance in a distress or other emergency situation. In addition, an estimated line of position from a DF facility can be provided to vessels that are uncertain of their locations. Location of VHF/DF facilities will be found in the appropriate centre listings in Part 2 of this publication. The intent of this service is not to provide a navigation service. Positions must be regarded as estimates only. Mariners are cautioned that any information provided shall be used at their own discretion.

### Direction Finding Bearings

Any MCTS centre will, on request, transmit signals that will enable a ship to take a radio bearing with its own direction finder. It is pointed out to masters of ships fitted with direction finding equipment employing DF loops that serious error may result in bearings taken if metallic material or equipment (poles, wires, winches, etc.) are erected in proximity to the DF antenna equipment after calibration.

Masters of ships are urged to exercise caution in the use of commercial radio broadcasting stations as radio beacons. Bearings taken on such stations may be very inaccurate owing to errors caused by coastal refraction and the calibration of the Direction Finder employed may vary considerably due to the wide difference in frequencies used, (i.e. the standard broadcast band spreads over approximately 1060 kHz). In addition, it is advisable to make certain that the position of the broadcast transmitter (not the studio) is accurately known before using it as a navigation aid.

## SAIL PLAN SERVICE

All small craft operators, including those making day trips, are encouraged to file a Sail Plan with a responsible person. This person should be instructed to call the Joint Rescue Coordination Centre (JRCC) or Maritime Rescue Sub-Centre (MRSC) if the vessel becomes overdue. The telephone number can be found at the front of most telephone books and should be included with the Sail Plan. In circumstances where it is not possible to file a Sail Plan with a responsible person, a Sail Plan may be filed by telephone, radio or in person, with any Coast Guard MCTS centre. While at sea, masters/operators who have filed a sail plan with an MCTS centre are encouraged to file a daily position report during long trips. Upon your return, be sure to close (or deactivate) the sail plan you filed earlier. Forgetting to do so can result in an unwarranted search for you.

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The information to be provided should be in accordance with the listing below.

- vessel identification (boat's name and licence number);
- sail or power;
- vessel size and type;
- colour of hull, deck, and cabin;
- type of engines;
- other distinguishing features;
- radios and channels monitored (MF / HF / VHF);
- Maritime Mobile Service Identity (MMSI);
- satellite and/or cellular telephone number;
- description of life rafts or small boats available;
- number and type of flares;
- number of lifejackets PFDs and/or survival suits;
- other safety equipment;
- name, address, and telephone number of vessel owner;
- other information;
- date and time of departure;
- number of people on board;
- departure point;
- route and stop-over points;
- destination;
- estimated date and time of arrival at destination; and,
- telephone number of an emergency contact person.

## ➡SEARCH AND RESCUE IN CANADIAN AREAS OF RESPONSIBILITY

The Canadian Forces (CF) in co-operation with the Canadian Coast Guard has overall responsibility for coordination of federal aeronautical and maritime Search and Rescue (SAR) activities in Canada, including Canadian waters and the high seas off the coasts of Canada. The CF provides dedicated SAR aircraft in support to marine SAR incidents. The Canadian Coast Guard coordinates maritime SAR activities within this area and provides dedicated maritime SAR vessels in strategic locations. Joint Rescue Coordination Centres (JRCC) are maintained at Victoria, B.C., Trenton, Ont. and Halifax, N.S. These centres are staffed 24 hours a day by Canadian Forces and Canadian Coast Guard personnel. Each JRCC is responsible for an internationally agreed upon designated area known as a Search and Rescue Region (SRR). In addition, a Maritime Rescue Sub-Centre (MRSC), staffed by Canadian Coast Guard personnel is maintained at Québec, QC to coordinate local marine SAR operations.

<b>Joint Rescue Coordination Centre (JRCC) / Maritime Rescue Sub-Centre (MRSC)</b>			
JRCC Halifax, NS	<b>Telephone:</b>	1-800-565-1582	Maritimes Region
		1-800-563-2444	Newfoundland & Labrador Region
		+1-902-427-8200	Satellite, Local or out of area
	<b>Facsimile:</b>	+1-902-427-2114	
	<b>Email:</b>	<a href="mailto:jrcchalifax@sarnet.dnd.ca">jrcchalifax@sarnet.dnd.ca</a>	
MRSC Québec, QC	<b>Telephone:</b>	1-800-463-4393	Québec Region
		+1-418-648-3599	Satellite, Local or out of area
	<b>Facsimile:</b>	+1-418-648-3614	
	<b>Email:</b>	<a href="mailto:mrscqbc@dfo-mpo.gc.ca">mrscqbc@dfo-mpo.gc.ca</a>	
JRCC Trenton, ON	<b>Telephone:</b>	1-800-267-7270	In Canada
		+1-613-965-3870	Satellite, Local or out of area
	<b>Facsimile:</b>	+1-613-965-7279	
	<b>Email:</b>	<a href="mailto:jrcctrenton@sarnet.dnd.ca">jrcctrenton@sarnet.dnd.ca</a>	

### Canadian Coast Guard Auxiliary

The Canadian Coast Guard Auxiliary (CCGA) is an association of approximately 4500 dedicated volunteers operating close to 1300 vessels to support the Canadian Coast Guard in Marine Search and Rescue.

For more information on maritime SAR services in Canada, refer to Section 28 of the Annual Edition of Notices to Mariners, published by the Canadian Coast Guard, Marine Navigation Services.

## MARINE COMMUNICATIONS AND TRAFFIC SERVICES MESSAGE SERVICE

### Messages no longer accepted:

- (a) Ships' business messages;
- (b) Private messages.

### Messages handled without charge by MCTS centres:

- (a) Messages pertaining to weather or ice information and ice routing;
- (b) Messages concerning aids to navigation;
- (c) AMVER Messages, addressed AMVER HALIFAX;
- (d) Radiomedical messages;
- (e) Messages reporting pollution;
- (f) Messages addressed to a port or a member of the Canadian Coast Guard that involve a report of a ship movement, position or condition;
- (g) Messages addressed to a Joint Rescue Co-ordination Centre (JRCC) or Maritime Rescue Sub-Centre (MRSC);
- (h) Pilotage messages;
- (i) Official Naval messages;
- (j) Quarantine messages addressed to "Quarantine";
- (k) Messages requesting a doctor to meet a ship on arrival.

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**Weather Messages**

Weather reports in the international meteorological code, made at the standard synoptic hours of 0000, 0600, 1200 and 1800 UTC, are solicited from ships of all nationalities which have been recruited by their own national weather service, or other weather services, to make weather reports on a regular basis. These reports should be made and transmitted to the nearest MCTS centre, irrespective of the ship's position. In fact, reports made close to, or even within sight of land, are equally important to reports made offshore, due to the greater variability of weather conditions in proximity to a coastline.

**Pollution Messages**

All vessels plying Canadian and adjacent waters are requested to report oil slicks or pollution of any type to the nearest MCTS centre.

**Medical Advice Messages**

Masters of ships may obtain medical advice by addressing a radiotelegram to "Radiomedical" and routing it via the nearest MCTS centre which will refer the message to the nearest medical authority and transmit the reply to the ship.

**Quarantine Messages**

1. In the following circumstances only, the person in charge of a vessel shall, by radio, at least 24 hours prior to the vessel's estimated time of arrival at its port of destination, notify or cause the notification of a quarantine officer at the quarantine station designated in paragraph (3) for that port of the occurrence:

Where, in the course of a voyage of a vessel,

(a) a member of the crew or a passenger on board the vessel exhibits one or more of these signs or symptoms:

- appears obviously unwell;
- cough with blood;
- fever or chills (profuse sweating, unusually flushed or pale skin, shivering);
- shortness of breath or difficulty breathing;
- repeated coughing;
- diarrhea;
- Headache;
- recent confusion;
- skin rash;
- bruising or bleeding without injury;
- death.

That person(s) should be isolated in order to minimize the exposure of crew and passengers.

(b) the person in charge of the vessel is, during the period:

- i. of four weeks preceding the estimated time of arrival of the vessel; or
- ii. since he last submitted a declaration of health as required by section 16, whichever is the lesser, aware of any instance of illness among the crew or passengers that he suspects is of a communicable nature and may lead to the spread of disease.

(c) a certificate establishing that the vessel has been de-ratted or exempted from de-ratting procedures has expired or is about to expire.



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2. At the same time, the person in charge of a vessel shall, by radio, provide the quarantine officer with the following information:
- (a) the name and nationality of the vessel;
  - (b) the ports called at during the voyage of the vessel;
  - (c) the nature of the cargo on board the vessel;
  - (d) the number of persons comprising the crew of the vessel;
  - (e) the number of passengers on board the vessel;
  - (f) the port of destination of the vessel and the name of the vessel's owner or, if the owner is not in Canada, the name of the vessel's agent in Canada;
  - (g) the condition of all persons on board the vessel and details of any death or illness occurring during the voyage;
  - (h) whether the body of any person is being carried on the vessel;
  - (i) the estimated time of arrival of the vessel at the port of destination; and
  - (j) the date and place of issuance of any de-ratting certificate or de-ratting exemption certificate applicable to the vessel.
3. For the purposes of paragraph (1), the quarantine station for vessels bound for
- (a) a port in the Province of Nova Scotia, New Brunswick, Prince Edward Island, or Newfoundland is the Halifax Nova Scotia Quarantine Station at 902-873-7659 (24 hour phone line);
  - (b) a port in the Province of Québec or any Canadian port via the St. Lawrence River, is the Montréal Québec Quarantine Station at 514-229-2561 (24 hour phone line);
  - (c) a port on Hudson Bay is the Calgary Alberta Quarantine Station at 403-221-3067 (24 hour phone line).

When circumstances outlined in paragraph (1) require vessels bound for any St. Lawrence River or Great Lakes port to notify the quarantine officer, this should be done **preferably 48 hours prior to arrival** at Québec City or, if not preceding past Québec City, 48 hours prior to arrival at destination. To ensure prompt and efficient service, messages should be sent through an east coast MCTS centre.

4. The person in charge of a vessel who wishes to change his port of destination after receiving instructions from the quarantine officer shall notify him of such change and request new instructions.

### **Pilotage Messages**

For detailed information on Notices to Obtain Pilot, Notices of Departure, Notices of Movage, Optional Notices and Required Information, please refer to Section 23 of the latest Annual Edition of Notices to Mariners, published by the Canadian Coast Guard, Marine Navigation Services.

### **Official Naval Messages**

For detailed information on Naval Messages to Canadian and Commonwealth ships in Canadian areas, please refer to Section 39 of the latest Annual Edition of Notices to Mariners, published by the Canadian Coast Guard, Marine Navigation Services.

**➡ICEBREAKING AND ICE ROUTING SERVICES****Ice Navigation in Canadian Waters**

The nautical publication “*Ice Navigation in Canadian Waters*” is published by the Canadian Coast Guard in collaboration with Transport Canada, Canadian Ice Service, and the Canadian Hydrographic Service. The Charts and Nautical Publications Regulations require this publication to be carried on board if the vessel is making a voyage during which ice may be encountered. The publication is available to download, free-of-charge, from [http://www.ccg-gcc.gc.ca/Ice\\_home/Ice\\_Publications/Ice-Navigation-in-Canadian-Waters](http://www.ccg-gcc.gc.ca/Ice_home/Ice_Publications/Ice-Navigation-in-Canadian-Waters).

There are a variety of icebreaking and support services available to ships transiting Canadian ice-covered waters. Ice Operations Centres are in operation seasonally as ice conditions dictate. These centres work in conjunction with Marine Communications and Traffic Services centres to provide up-to-date ice information, to suggest routes for ships to follow through or around ice, and to co-ordinate icebreaker assistance to shipping.

Ice Operations Centres are in contact with icebreakers at all times and monitor progress of shipping within their area of responsibility. In addition, Environment Canada’s Canadian Ice Service (CIS) has fully qualified Ice Service Specialists and ice reconnaissance aircraft who are involved with Ice Operations Centres on a full-time basis throughout the ice navigation season. The Coast Guard Icebreaking Superintendents have a complete and current picture of the prevailing ice conditions in their area and the anticipated trend of conditions and are therefore well equipped to provide reasoned advice on the best routes to pursue.

To obtain the maximum benefit from the service, it is essential that Masters report to the Canadian Coast Guard before their ships enter waters where ice may be encountered. These initial reports and subsequent position reports from ships will ensure a continuing watch on the ship's progress by the Canadian Coast Guard Ice Operations Centres and, in the event icebreaker support becomes necessary, this can be provided with a minimum of delay. There are a limited number of icebreakers available to support shipping. Masters are encouraged to follow the recommended route with which they are provided. They may also assist and support this service by providing reports on the ice they encounter.

**Canadian Coast Guard Ice Operations Centres**

	<b>Telephone</b>	<b>Facsimile</b>
<b>Ice Atlantic</b>	709-772-2078	709-772-5369
<b>Ice Québec</b>		
For Icebreaker Support	418-648-7290	418- 648-3614
For Ice Information	418-648-2214	418-648-7305
<b>Ice Sarnia</b>		
For Icebreaker Support	1-800 265-0237 or 519-383-1814	
For Ice Information	519-383-1855	519-337-2498
<b>MARINFO</b>	Website: <a href="http://www.marinfo.gc.ca/en/glaces/index.asp">http://www.marinfo.gc.ca/en/glaces/index.asp</a>	
<b>Icebreaking</b>	Website: <a href="http://www.ccg-gcc.gc.ca/eng/CCG/Ice_Home">http://www.ccg-gcc.gc.ca/eng/CCG/Ice_Home</a>	
General Information	Email: <a href="mailto:ice-glace@dfo-mpo.gc.ca">ice-glace@dfo-mpo.gc.ca</a>	

**Joint Industry-Government Guidelines**

Recognizing that special risks of ice damage may exist in certain waters off the East Coast of Canada during winter and spring months and that these may affect safety and contribute to marine pollution, *the Joint Industry-Government Guidelines for the Control of Oil Tankers and Bulk Chemical Carriers in Ice Control Zones of Eastern Canada (JIG) – TP15163* were developed and have been in effect since November 1979.

These Guidelines apply to all laden oil tankers and to tankers carrying liquid chemicals in bulk when proceeding through an active Ice Control Zone in Eastern Canadian waters and fishing zones south of 60° North. The Canadian Coast Guard may declare any ice control zone to be an active Ice Control Zone and promulgate this information via Notice to Shipping and Notices to Mariners. When proceeding through an active Ice Control Zone, all ships to which the Guidelines apply should have on board a copy of the guidelines and at least one "Ice Advisor", who meets the requirements as prescribed in JIGs.

The following may be contacted for information on ice control zones:

<b>NEWFOUNDLAND AND LABRADOR REGION</b> Canadian Coast Guard Ice Operations Centre Tel: 709-772-2078 Fax: 709-772-5369  St. John's MCTS Tel: 709-772-2083/2084 Fax: 709-772-5369 <a href="mailto:ECAREGSNF@INNAV.GC.CA">ECAREGSNF@INNAV.GC.CA</a>	<b>MARITIMES REGION</b> Canadian Coast Guard Ice Operations Centre Tel: 902-426-5664 or 902-426-5665 Fax: 902-426-6073  Halifax MCTS Tel: 902-426-4956 Fax: 902-426-4483 <a href="mailto:HLXECAREG1@INNAV.GC.CA">HLXECAREG1@INNAV.GC.CA</a>
<b>QUÉBEC REGION</b> Canadian Coast Guard Ice Operations Centre Tel: 418-648-7290 / 418-648-5620 Fax: 418-648-7305  Rivière au Renard MCTS Tel: 418-269-3843 Fax: 418-269-5514 <a href="mailto:RARECAREG@INNAV.GC.CA">RARECAREG@INNAV.GC.CA</a>	<b>CENTRAL &amp; ARCTIC REGION</b> Canadian Coast Guard Ice Operations Centre Tel: 519-383-1814 or 1-800-265-0237 Fax: 519-337-2498

The complete version of JIG TP 15163 B (2011) is available at: <http://www.tc.gc.ca/eng/marinesafety/tp-tp15163-menu-4025.htm>

**CANADIAN HYDROGRAPHIC SERVICE****Conversion of charts to North American Datum 1983 (NAD 83)**

The Canadian Hydrographic Service is converting navigational charts to the North American Datum 1983 (NAD 83).

NAD 83 is considered equivalent to the World Geodetic System 1984 (WGS 84) recently adopted as the horizontal datum for world-wide use. The advantage of the new datum is its compatibility with the NAVSTAR (GPS) satellite positioning system.

The difference in the position of the same point when quoted on the former NAD 27 and the new NAD 83 is up to 60 metres on the Atlantic coast, about 110 metres on the Pacific coast and almost zero near Chicago although there can be local discrepancies from these approximations.

Horizontal positions obtained from satellite receivers are based on NAD 83 (WGS 84) and must be converted to the horizontal chart datum (if not NAD 83) before being used.

A note has been added to nearly all existing charts indicating the datum on which the chart is based, and providing the increase or decrease required to convert the latitude and longitude from NAD 83 to the chart datum.

New Charts and New Editions being produced are now almost always based on NAD 83.

**Note:** Latitude and longitude positions given in this publication are in NAD 83 unless otherwise indicated.

## INSPECTION OF RADIO APPARATUS

The Canadian Coast Guard, on behalf of Transport Canada, is responsible for the conduct of ship radio inspections pursuant to the Canada Shipping Act, 2001. Queries concerning the standards governing inspections of radio apparatus fitted in ships for safety purposes may be sent to:

Program Manager, Ship Radio Inspection  
Fisheries and Oceans Canada  
Canadian Coast Guard  
200 Kent Street, 7th Floor, Station 7S001  
OTTAWA, ON K1A 0E6  
Telephone: 613-949-7810 Facsimile: 613-998-9258  
Email: [doug.pittman@dfo-mpo.gc.ca](mailto:doug.pittman@dfo-mpo.gc.ca)

Owners and masters of Canadian ships, that are required to be fitted with a radio installation under the provisions of the *Canada Shipping Act*, 2001 are reminded that:

The master of a ship, other than a Safety Convention ship, shall ensure that the ship station is inspected by a radio inspector

- a) within the 30 days before the ship puts to sea for the first time, if the ship is:
  - (i) 20 m or more in length,
  - (ii) a tow-boat, or
  - (iii) carrying more than 12 passengers on a voyage any part of which is in a VHF coverage area or more than five miles from shore;
- b) at least once every 48 months, in the case of a ship referred to in paragraph (a) that is certified for home-trade voyages, Class IV, or minor waters voyages, Class II; and
- c) at least once every 12 months, in the case of a ship referred to in paragraph (a) that is certified for voyages other than a home-trade voyage, Class IV, or a minor waters voyage, Class II.

The master of a ship that is required to be inspected under the *Agreement between Canada and the United States of America for Promotion of Safety on the Great Lakes by Means of Radio, 1973* need not comply with paragraphs (1)(b) or (c), but shall ensure that the ship station is inspected by a radio inspector before the ship enters the Great Lakes Basin for the first time and at least once every 13 months thereafter while continuing to navigate in the Great Lakes Basin.

A non-Canadian ship which does not have a valid Radio Safety Certificate on board may be detained by a port Customs Officer until a valid certificate has been obtained.

A fee for the conduct of ship radio inspections is levied in accordance with the *Ship Radio Inspection Fees Regulations*. The fee is payable upon completion of the inspection.

Applications for radio inspections of Canadian ships should be filed with the Canadian Coast Guard. The form entitled: Application for Radio Inspection, Compulsory Fitted Ships (82-0643) should be used for this purpose. Such request by owners, agents or masters should be received by the Canadian Coast Guard at least three working days in advance of the date requested for inspection.

The owners, agents or masters of Canadian ships requiring radio inspection while outside of Canada should make application by fax or letter to:

Transport Canada  
Director General  
Marine Safety Directorate  
Tower C, Place de Ville  
330 Sparks Street  
OTTAWA, ON K1A 0N8  
Telephone: 613-998-0610  
Facsimile: 613-954-1032

Non-Canadian ships (except Liberian ships) may obtain a cargo Ship Safety Radio Certificate (GMDSS) in Canada. Applications should originate with the owners, ship agents or masters of the ships concerned and be supported by confirmation from the Consul or other official representative of the country in which the ship is registered. Confirmation shall be in writing. It is the responsibility of the owner, agent or master to contact the Consul or official representative and arrange to submit the necessary confirmation to the local Canadian Coast Guard inspection office. Where time is limited, a verbal request for an inspection may be accepted from the Consul or official representative (a person who has a document from an Administration giving him the official power to act on their behalf), provided that the confirmation is submitted later.

Applications for radio inspections of Canadian ships wintering in US Great Lakes ports should be made by the owners, agents or masters on FCC form 809 and filed directly with the FCC Field Engineering office nearest to the port of which the inspections are desired. Copies of form 809 are available from any of the FCC offices serving the Great Lakes.

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**Ship Radio Inspection Contacts**

Canadian Coast Guard  
**Newfoundland and Labrador**  
Fisheries and Oceans Canada  
**Telephone & Fax: 1-888-454-3177**  
**Outside Canada Telephone & Fax: 709-772-3467**  
**Email: [xnfltsc@dfo-mpo.gc.ca](mailto:xnfltsc@dfo-mpo.gc.ca)**

Charlottetown, **Prince Edward Island**, C1A 7M8  
Supervisor of Technical Maintenance  
Fisheries and Oceans Canada  
Canadian Coast Guard  
P.O. Box 1236  
**Telephone: 902-566-7976**  
**Fax: 902-566-8221**

Saint John, **New Brunswick**, E2L 4B3  
Supervisor of Technical Maintenance  
Fisheries and Oceans Canada  
Canadian Coast Guard  
P.O. Box 700, Water Street  
**Telephone: 506-636-4743**  
**Fax: 506-636-5000**

Dartmouth, **Nova Scotia**, B2Y 4A2  
Supervisor of Technical Maintenance  
Fisheries and Oceans Canada  
Canadian Coast Guard  
P.O. Box 1006  
**Telephone: 902-426-3753**  
**Fax: 902-426-6908**

Yarmouth, **Nova Scotia**, B5A 4B1  
Senior Technician  
Fisheries and Oceans Canada  
Canadian Coast Guard  
P.O. Box 37  
**Telephone: 902-742-6858**  
**Fax: 902-742-0411**

Canadian Coast Guard **Quebec**  
Fisheries and Oceans Canada  
**Telephone: 514-283-5684**  
**Fax: 514-283-2129**

Prescott, **Ontario**, K0E 1T0  
Supervisor of Technical Maintenance  
Fisheries and Oceans Canada  
Canadian Coast Guard Ships Electronic Workshop  
401 King Street West, P.O. Box 1000  
**Telephone: 613-925-2865 ext. 246**  
**Fax: 613-925-5540**

Sarnia, **Ontario**, N7T 7W1  
Supervisor of Technical Maintenance  
Fisheries and Oceans Canada  
Canadian Coast Guard Ships Electronic Workshop  
105 Christina Street South  
P.O. Box 2839  
**Telephone: 519-464-5106**  
**Fax: 519-464-5108**

Thunder Bay, **Ontario**, P7B 6R9  
Supervisor of Technical Maintenance  
Fisheries and Oceans Canada  
Canadian Coast Guard Ships Electronics Workshop  
100 Main Street, Suite 400  
**Telephone: 807-345-8084**  
**Fax: 807-344-5893**

Sydney, **Nova Scotia**, B1R 2J6  
Supervisor of Technical Maintenance  
Fisheries and Oceans Canada  
Canadian Coast Guard Ships  
1190 Westmount Road  
**Telephone: 902-564-7750**  
**Fax: 902-564-8608**

**RADIO STATION LICENSING AND MMSI NUMBERS**

To obtain further information on radio station licensing and Maritime Mobile Service Identity (MMSI) numbers contact Industry Canada at: <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf01742.html> or locate the nearest Industry Canada office through the local telephone directory.

		<b>Fisheries and Oceans Canada</b> <b>Pêches et Océans Canada</b>  <b>Coast Guard</b> <b>Garde côtière</b>	
<b>APPLICATION for a RADIO INSPECTION of a COMPULSORILY FITTED VESSEL</b>			
<b>Name of Vessel</b>		<b>Port of Registry</b>	
<b>Gross Tonnage</b>		<b>Length</b>	
<b>Official Number</b>		<b>IMO Number</b>	
<b>Agent: Name, Address, Telephone Number</b>		<b>Check if appropriate to this inspection</b> New vessel or first inspection? <input type="checkbox"/> Change of Voyage? <input type="checkbox"/> Change of Certificate Type? <input type="checkbox"/>	
<b>Check appropriate Vessel type</b>		<b>Radio Services Representative: Name &amp; Telephone Number</b>	
<input type="checkbox"/> Cargo <input type="checkbox"/> Tanker <input type="checkbox"/> Government Search & Rescue <input type="checkbox"/> Drilling Unit <input type="checkbox"/> Oil and Gas Standby Vessel		<input type="checkbox"/> Fishing <input type="checkbox"/> Fish Processing <input type="checkbox"/> Passenger <input type="checkbox"/> Tow-Boat	
<b>Inspection Requested - Date:</b>		<b>Time:</b>	
<b>Port, dock or quay, at which survey is to be conducted</b>			
Application is hereby made for a radio inspection for the ship indicated above in accordance with Canadian Law and International Convention or Treaty as applicable. If after inspection the radio apparatus is found to comply with the requirements, it is requested that the following document(s) be issued.			
<b>Please check all appropriate boxes.</b>			
<input type="checkbox"/> <b>RADIO INSPECTION CERTIFICATE</b> (Sea Coast of Canada)			
<input type="checkbox"/> <b>RADIO INSPECTION CERTIFICATE</b> (Great Lakes Basin)			
<input type="checkbox"/> <b>CARGO SHIP RADIO SAFETY CERTIFICATE</b> (SOLAS) <input type="checkbox"/> Renewal Survey <input type="checkbox"/> Periodical Survey			
<input type="checkbox"/> <b>REPORT OF INSPECTION</b> concerning a radio installation on board a passenger ship engaged in international voyages.			
<input type="checkbox"/> <b>LETTER OF CERTIFICATION</b> concerning a radio installation on board a Non-Convention cargo ship to allow Customs Clearance for an international voyage.			
<b>VOYAGE TYPE:</b>		Home Trade <input type="checkbox"/> I, <input type="checkbox"/> II, <input type="checkbox"/> III or <input type="checkbox"/> IV Minor Waters <input type="checkbox"/> I or <input type="checkbox"/> II Inland Waters <input type="checkbox"/> I or <input type="checkbox"/> II Foreign <input type="checkbox"/> International <input type="checkbox"/>	
		Sea Area: <input type="checkbox"/> A1 <input type="checkbox"/> A2 <input type="checkbox"/> A3 <input type="checkbox"/> A4	
<b>CONDITIONS OF INSPECTION:</b>			
a) Transport Canada is responsible for the conduct of ship radio inspections pursuant to the Canada Shipping Act. The Minister of Transport has appointed Canadian Coast Guard Radio Inspectors to carry out radio inspections. b) An application for inspection shall be submitted to the Canadian Coast Guard office nearest to the desired port of inspection <b>at least 3 working days in advance of inspection date.</b> c) When an inspection is requested of a ship registered elsewhere than in Canada, the application must be accompanied by a letter from the Consul or another official representative of the Administration concerned in accordance with Regulation 13, Chapter 1, SOLAS 1974, or Protocol 1988. d) The ship's electrical power shall be available and a person with authority to operate the radio station shall be on board at the date and time determined for the inspection. e) Fees are payable as outlined in the Ship Radio Inspection Fees Regulations (SRIFR)			
_____ Date		_____ Signature of Agent or Master	
76-000-000-PF-JP-001 (12-2004)		82-0643	

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## MARINE TELEPHONE SERVICE

### General

This service enables a person aboard a ship to speak directly to any person ashore, or vice versa, as in ordinary long distance telephone calls. The service is an extension of the public telephone system to ships at sea through MCTS centres. ➡ Refer to Part 2 to find MCTS centres that provide the marine telephone call service.

### Placing a Marine Telephone Call

#### Ship to Shore

1. Listen to make sure that the MCTS centre is not busy with another ship.
2. Call the MCTS centre and when communication has been established give the following:
  - (a) Name of the city being called;
  - (b) Name and/or telephone number of the person being called, and if the call is to be made “collect”;
  - (c) Name of the caller or the number of the caller’s telephone company credit calling card (if applicable).
3. When the call is completed, sign off, using the name and call sign of the ship.
4. When first placing the call, if a ship radio operator is unable to compute the charges which should be collected, request the MCTS centre to “Report Charges”. The MCTS centre will then relay this information to the ship at the end of the call.

#### Shore to Ship

1. Dial “0 (zero)” and ask for the “Marine Operator”.
2. Give the “Marine Operator” the following information:
  - (a) Name of the person and ship being called and if the call is to be made “collect”.
  - (b) Name of the city and the telephone number from which the call is being made and number of the caller’s telephone company credit calling card (if applicable).

### Receiving a Marine Telephone Call

1. When you hear your ship being called, reply, giving your ship’s name and call sign.
2. At the end of the conversation, sign off by announcing the name and call sign of your vessel.

### Radiomedical Calls

Mariners may obtain medical advice by calling an MCTS centre and requesting to be connected to a medical professional. The Canadian Coast Guard will connect the vessel to an appropriate medical professional via the Marine Telephone System.

For mariners who wish to make their own arrangements for medical advice, radiomedical services are available in numerous languages to vessels flying any flag at any location through the International Radio-medical Centre (CIRM) in Rome, Italy. This centre is staffed 24/7/365 by specially trained physicians and radio operators who also have access to specialists in all medical branches. The CIRM can be contacted via the following means:

Telephone	39 6 54223045
Mobile	GSM 39 348 3984229
Fax	39 6 5923333
Telex	043 612068 CIRM I
Email	<a href="mailto:telesoccorso@cirm.it">telesoccorso@cirm.it</a>
Web	<a href="http://www.cirm.it/">http://www.cirm.it/</a>



## ➡PART 5

### Environment Canada's Marine and Ice Warning and Forecast Programs

#### Background

Environment Canada's Meteorological Service of Canada (MSC) is the agency responsible for delivering Canada's weather service. The MSC offers a broad range of products and services that are designed to help mariners make informed decisions on how weather will affect them. The Canadian Coast Guard also plays an important role in disseminating forecasts and warnings, and in collecting and relaying weather information from volunteer observers and ships.

The constant stream of data coming from both automated and manned coastal observation stations, as well as ships and weather buoys, is supplemented by satellite imagery, weather radar and a full set of numerical weather products adapted for marine operations.

#### Marine Warning Program

Warnings of extreme weather events that pose a threat to life and property at sea such as strong winds, freezing spray, high coastal waters, squall lines and other localized phenomena shall be issued for the offshore economic zone including the St. Lawrence Seaway and major inland waters.

Major inland waters are defined as having significant marine activity and where time to reach safe harbour is comparable to the marine weather warning lead time. The criteria for issuing weather warnings is based on national guidelines, but determined regionally to account for regional climatology and the nature of the regional marine community. The following table describes the warning program:

**Table 1: Synoptic warnings**

Synoptic warnings [these warnings are included in the body of the text forecast]	Warning criteria
Strong wind warning <sup>1</sup>	Winds <sup>2</sup> 20 to 33 knots inclusive occurring or expected to occur in any portion of a marine area including any portion defined by a local effect or an "except" statement.
Gale warning	Winds <sup>3</sup> 34 to 47 knots inclusive occurring or expected to occur in any portion of a marine area including any portion defined by a local effect or an "except" statement.
Storm warning	Winds <sup>4</sup> 48 to 63 knots inclusive occurring or expected to occur in any portion of a marine area including any portion defined by a local effect or an "except" statement.
Hurricane force wind warning	Winds <sup>5</sup> 64 knots or above occurring or expected to occur in any portion of a marine area including any portion defined by a local effect or an "except" statement.
Freezing spray warning	Ice accretion rate of 0.7 cm/hr or more occurring or expected to occur in any portion of a marine area including any portion defined by a local effect or an "except" statement.

**Range:** With the exception of Footnote 1, when a range is used to describe the wind speed, the upper value of the range determines the warning category.

<sup>1</sup> The strong wind warning program is active on a regional basis as required for coastal and inland waters during the recreational boating season. A warning is not required when the wind is described using the range 15-20 knots. This range is normally used for greater accuracy.

<sup>2</sup> Gusts are excluded from the definition.

<sup>3</sup> Gusts are excluded from the definition.

<sup>4</sup> Gusts are excluded from the definition.

<sup>5</sup> Gusts are excluded from the definition.

**Table 2: Localized warnings**

Localized warnings/watches [these warnings/watches are delivered using separate messages]	Warning criteria
Squall watch	Advance notice of conditions that are favourable to the development of squalls.
Squall warning	Wind gust $\geq 34$ knots associated with a line or an organized area of thunderstorms.
Tornado watch	Advance notice of conditions that are favourable to the development of TORNADOS.
Tornado warning	Evidence of tornado formation (radar, report from a reliable source, etc.) over a marine area, or an existing tornado moving from land to an adjacent marine area.
Waterspout watch [waterspout warnings are not issued]	Advance notice of conditions that are favourable to the development of cold-air waterspouts.
Waterspout warning	Evidence of waterspout formation (radar, report from a reliable source, etc.) over a marine area,
High water level warning	Issued to warn mariners and coastal populations of potentially hazardous impacts due to abnormally high water levels or waves along coastal areas.
Special marine warning/watch	Used to describe conditions other than those defined above that may have potentially hazardous impacts on navigation.

**Ice warnings:** refer to the Canadian Ice Services, Part 5, page 38.

### Marine and Ice Forecast Program

Marine forecasts are issued for the offshore economic zone including the St. Lawrence Seaway and major inland waters. For sea ice, ice forecasts are issued for offshore marine areas as well as the Great Lakes. The production schedule is detailed in each regional section of this chapter. The forecast program includes the following bulletins:

**Table 3: Marine forecast program**

Forecast or bulletin name	Details
Technical marine synopsis	Provides the positions and trends of the main weather systems for the forecast period covering Days 1 and 2.
Marine forecast (or Regular marine forecast)	Provides information on: synoptic warnings, wind, visibility, precipitation and freezing spray. It may include air temperature as appropriate. Valid for Days 1 and 2.
Recreational boating marine forecast	Tailored to the needs of recreational boaters, it is available on a seasonal basis and only in specific regions.
Marine weather statement	Issued when deemed necessary, it provides additional information on potentially high impact marine conditions.
Wave height forecast	Provides information on significant wave heights for Days 1 and 2. It is not available for the Arctic waters or central and western Hudson Bay.
Extended marine forecast	Meant for longer-range planning purposes, it provides an extended marine wind outlook for Days 3, 4, and 5.
Iceberg bulletin	Provides information on distribution of icebergs valid for the time of issue of the bulletin.
Ice forecasts	Provides information on hazardous ice conditions for Days 1 and 2.
NAVTEX <sup>6</sup>	International Maritime Organization (IMO)-compliant NAVigational TeLEX bulletin issued with each regular marine forecast or ice forecasts in a standardized abbreviated format - see Table 5, Part 5, page 8 for Abbreviations.
MAFOR <sup>7</sup>	This is a specialized coded marine forecast produced for Québec and Ontario regions.

<sup>6</sup> More details on NAVTEX are provided on Part 5, page 6.

<sup>7</sup> More details on MAFOR are provided on Part 5, page 11

**Monitoring the Forecast**

Forecasts are monitored, and amended as necessary, to reflect unexpected or changing weather conditions according to criteria based on the following principles:

1. when safety or security is at risk;
2. when inconvenience to the marine community will be extensive; or
3. when the product could adversely affect the credibility of the marine forecast program.

**Marine and Ice Forecast Areas**

Marine forecasts and ice forecasts are issued for marine and ice areas as outlined in the regional maps. The sizes and boundaries of these areas are determined regionally based on the following considerations:

1. marine traffic density;
2. the ability to forecast to the proposed resolution;
3. the degree to which, climatologically, marine weather varies; and
4. the ability to distribute the information effectively to the marine community.

**Current Conditions**

Current weather data is available to Canadians for their local area. The frequency and quality of the data will be consistent with the standards established by the World Meteorological Organization (WMO). The data may include, as appropriate:

- wind speed and direction,
- atmospheric pressure,
- sky conditions,
- precipitation type,
- restrictions to visibility,
- wave height,
- current temperature.

General information on current sea-ice will be provided to the marine community once a week to provide an adequate planning tool for those considering entering ice-encumbered waters.

**Emergency Response**

Meteorological support is provided during emergencies and includes the provision of meteorological information and forecasts. In the case of a pollution event, Environment Canada adheres to the “polluter pay” policy for the provision of all services. Where agreements are in place, Environment Canada will make its distribution systems available to transmit vital information during emergency situations.

**Delivery of Marine Warning and Forecast Services**

Delivery of marine warning and forecast services to mariners navigating waters within Environment Canada’s forecast areas of responsibility is primarily by mass communication in order to reach the greatest number of mariners through the standard communications technologies available to mariners. The following principles apply, regardless of the specific available technologies:

- a. Marine forecasts and warnings comprising the meteorological Maritime Safety Information (met MSI) issued by Environment Canada will be made available to the marine community via the Canadian Coast Guard Marine Communications and Traffic Services according to established procedures within the framework of the Global Maritime Distress and Safety System (see RAMN, Part 4, page 11: General Procedures – Systems – GMDSS).
- b. Internet access via the World-Wide Web. All forecast and warning information will be found at the following address: [http://www.weatheroffice.gc.ca/canada\\_e.html](http://www.weatheroffice.gc.ca/canada_e.html). Mariners should note, however, that the internet is *not* part of the Maritime Safety Information system and should never be relied upon as the only means to obtain the latest marine forecasts and warning information. Access to the internet may be interrupted or updated information delayed without prior notice.
- c. Marine and Environmental Advisories, Watches and Warnings are distributed through various mechanisms including partnerships with national and regional media distributors and local emergency measures organizations. .
- d. In addition to the aforementioned mediums, basic services to mariners and Canadians in general shall also be delivered by mass distribution in partnership with media, relying on current and developing technologies in radio, television, newspaper and the Internet. These distribution mechanisms represent the primary methods by which most Canadians receive their weather information, now and in the future.

### **Voluntary Observing Ship (VOS) Program**

The VOS program has been discontinued. Environment Canada currently supports the Automated Voluntary Observing Ship program (AVOS) program. Contact your regional PMO for further information.

### **Buoys Program**

In order to complement the observational network, Environment Canada operates a network of buoys across the country. This data becomes part of the collection of weather reports sent to the distribution network and is used to improve marine forecasting. The location, WMO identifiers and names of the Environment Canada buoys are given in the regional annexes.

Mariners are requested to use caution when approaching buoys as mooring chains are normally not detectable from a ship and can be damaged or even severed if there is contact. Such a mishap could possibly result in the buoy going adrift thus requiring a costly effort to recover the platform. Please keep the regional PMO informed of any incidents involving buoys.

**Buoy Locations:** buoy positions are described in each specific regional annex.

### **MAREP (MARine REPorting Program)**

MAREP gives mariners the opportunity to informally report local weather conditions and to receive up-to-date weather forecasts and warnings. MAREP stations are generally operated on a semi-volunteer basis by a member of the marine community who is concerned about marine safety. The stations operators are in regular contact with the Marine Weather Forecaster of the area.

Since the program is informal, the individuals at the stations do not provide a 24 hour service, but are likely available during day-time and early evening hours.

### **Port Meteorological Officers (PMOs)**

In addition to a variety of other duties, PMOs also act as a liaison between Environment Canada and ships involved in the VOS program. This is to encourage vessels to report weather and ice conditions, to instruct observers about procedures and the use of code; to supply observing forms, handbooks (free of charge!); to calibrate equipment; and, in some cases, to install, on loan, meteorological or oceanographic instrumentation. The PMO is also responsible for recruiting new vessels to participate in the VOS program.

If a PMO visits your ship, feel free to ask questions about observing and coding, and reporting weather and ice conditions. Inform the PMO of any concerns you may have with forecasts, warnings, or facsimile products, especially if you have specific problems. The PMO will contact the appropriate party for investigation. Keep the PMO informed of your contact information.

**Table 4: Port Meteorological Officers (PMOs)**

<b>Great Lakes</b>	<b>Atlantic - Maritimes</b>	<b>Atlantic - Newfoundland</b>
Tony Hilton, Superintendent Shawn Rickard, PMO Environment Canada, MSC 100 East Port Boulevard HAMILTON, ON L8H 7S4 Telephone: 905-312-0900 Facsimile: 905-312-0730 Email: <a href="mailto:anthony.hilton@ec.gc.ca">anthony.hilton@ec.gc.ca</a> <a href="mailto:shawn.rickard@ec.gc.ca">shawn.rickard@ec.gc.ca</a>	Derek Cain, PMO Environment Canada, MSC 45 Alderney Drive, 16 <sup>th</sup> floor DARTMOUTH, NS B2Y 2N6 Telephone: 902-426-6616 Cellular: 902-222-6325 Facsimile: 902-426-6404 Email: <a href="mailto:derek.cain@ec.gc.ca">derek.cain@ec.gc.ca</a>	Andre Dwyer, PMO Environment Canada, MSC 6 Bruce Street. MOUNT PEARL, NL A1N 4T3 Telephone: 709-772-4798 Cellular: 709-689-5787 Facsimile: 709-772-5097 Email: <a href="mailto:andre.dwyer@ec.gc.ca">andre.dwyer@ec.gc.ca</a>
<b>St-Lawrence - Quebec</b>	<b>Pacific</b>	<b>Great Slave Lake / Lake Athabaska/ Western Arctic</b>
Erich Gola, PMO Environment Canada, SMC Canada Place Bonaventure, Portail Nord-Est 800 de la Gauchetière ouest Suite 7810 MONTRÉAL, QC H5A 1L9 Telephone: 514-283-1644 Facsimile: 514-496-1867 Email: <a href="mailto:erich.gola@ec.gc.ca">erich.gola@ec.gc.ca</a>	Bruce Lohnes, Supervisor Vaughn Williams, PMO Environment Canada, MSC 140 13160 Vanier Place RICHMOND, BC V6V 2J2 Telephone: 604-664-9188 Facsimile: 604-664-4094 Email: <a href="mailto:bruce.lohnes@ec.gc.ca">bruce.lohnes@ec.gc.ca</a> Email: <a href="mailto:vaughn.williams@ec.gc.ca">vaughn.williams@ec.gc.ca</a>	Ben Lemon, PMO Rich DeVall, PMO Environment Canada, MSC M.J. Greenwood Centre 9345 - 49 Street EDMONTON, AB T6B 2L8 Telephone: 780-495-6442 Email: <a href="mailto:ben.lemon@ec.gc.ca">ben.lemon@ec.gc.ca</a> <a href="mailto:rich.devall@ec.gc.ca">rich.devall@ec.gc.ca</a>
<b>Manitoba Lakes</b>		
Greg Stansfield, PMO Monitoring and Systems Environment Canada, MSC Suite 150, 123 Main Street WINNIPEG, MB R3C 4W2 Telephone: 204-983-6155 Email: <a href="mailto:greg.stansfield@ec.gc.ca">greg.stansfield@ec.gc.ca</a>		

**NAVTEX**

MSC will provide Canadian Coast Guard with marine forecast information in NAVTEX format for coastal and offshore areas of responsibility based on IMO standards. Marine forecast information provided will include:

- I. **Warnings** (winds & ice accretion),
- II. **Synopsis** (major features),
- III. **Forecasts** (wind, visibility, ice accretion, wave height).

Each bulletin will contain a WMO telecommunication header, a valid period, notes on parameters used within the bulletin, a synopsis section, a weather forecast section and a wave forecast section. Below is a sample of a partial NAVTEX produced for Canadian Coast Guard MCTS Sydney. Note that NAVTEX will make use of abbreviations: this is necessary in order to comply with the physical limitations of the NAVTEX system. In the example, text in superscript indicates how abbreviations are used.

NAVTEX service sample (518 kHz)	
Header	FQCN <sup>34</sup> CWHX 171400
Title (part one)	NAVTEX/1 FOR SYDNEY VCO AT 10:00 AM AST FRI <sup>Friday</sup> 17 NOV <sup>November</sup> 2006.
<b>Weather forecast</b>	
Parameters	VLD <sup>valid period</sup> 17/14Z-19/03Z, WND(KT) <sup>wind in knots</sup> , VIS(NM) <sup>visibility in nautical miles</sup> ABV <sup>above</sup> 1 NM UNL IND <sup>unless indicated</sup> , FOG IMPLIES VIS 1 NM OR LESS.
Synopsis	<b>SYNOPSIS:</b> 17/14Z STRM <sup>storm</sup> 980 MB OVR SRN NFLD <sup>over southern Newfoundland</sup> 18/14Z STRM <sup>storm</sup> 985 MB OVR NRN NFLD <sup>over northern Newfoundland</sup> 17/14Z RIDG OVR WRN QUE. <sup>ridge over western Québec</sup> 18/14Z RIDG OVR WRN GU ST LAW. <sup>ridge over western Gulf of St Lawrence</sup>
Area name	EASTERN SHORE, FOURCHU:
Warning	WNG <sup>warning</sup> : NIL.
Wind forecast	WND: SW <sup>southwest</sup> 10-15. 17/18Z SE <sup>southeast</sup> 15-20. 18/06Z V15. 18/12Z SW <sup>southwest</sup> 15-20. 18/18Z SW20-25. 19/00Z SW15-20.
Visibility forecast	VIS: 17/13Z-19/03Z PTH-FG <sup>fog banks</sup>  {... other marine areas }
End of weather	END/
<b>Wave height forecast</b>	
Parameters	WAVES(M) <sup>metres</sup> VLD 17/09Z-18/10Z.
Area name	EASTERN SHORE, SABLE, EAST SCOTIAN SLOPE-N <sup>- northern half</sup> , FOURCHU, BANQUEREAU:
Height in meters	1-2.  {.... Other marine areas }
End of waves and part one	END/

NAVTEX service sample (518 kHz)	
Header ► Title (VCO part two) ►	FQCN <b>34 CYQX</b> 171330 <b>NAVTEX/2</b> FOR SYDNEY VCO.
<b>Weather forecast</b> Parameters ►	VLD 17/13Z-19/03Z.
Marine areas ►	GULF-PORT AU PORT, SOUTHWEST COAST:
Warning ►	WNG: NIL.
Wind ►	WND: S10-15G20. 17/23Z S10-15. 18/11Z S15-20. 18/18Z SW20.
Visibility ►	VIS: 17/12Z-19/02Z FG-PTH.
	<i>{... other marine areas}</i>
End of weather ►	END/
<b>Wave height forecast</b> Parameters ►	WAVES(M) VLD 17/09Z-18/09Z.
Marine areas ►	GULF PORT AU PORT:
Waves ►	1-2. 18/06Z 0-1.
	<i>{... other marine areas}</i>
End of waves and part two ►	END/

**Table 5: Abbreviations used by MSC within NAVTEX**

Date/Time standards					
April	APR	June	JUN	September	SEP
August	AUG	March	MAR	Sunday	SUN
December	DEC	May	MAY	Thursday	THU
February	FEB	Monday	MON	today	TDY
Friday	FRI	November	NOV	tonight	TNGHT
January	JAN	October	OCT	Tuesday	TUE
July	JUL	Saturday	SAT	Wednesday	WED

Marine Forecast area dividing standards					
- eastern half	-E	- northwestern half	-NW	- southwestern half	-SW
- northeastern half	-NE	- southeastern half	-SE	- western half	-W
- northern half	-N	- southern half	-S		

Forecast parameters					
valid	VLD	unless	UNL	millibar	MB
indicated	IND	knots	KT	nautical mile	NM
implies	IMPL	meters	M		

Wind elements					
east	E	south	S	west	W
north	N	southeast	SE	light	LGT
northeast	NE	southwest	SW	with gust to	G
northwest	NW	variable	VRB	warning	WNG

Freezing spray qualifier					
freezing spray	FRZ-SPR	risk	RSK	outside the ice edge	OUT-EDGE
moderate	MOD	severe	SEV	over open water	OVR-OW
at times	OCNL				

Wave elements					
ice covered	ICE				

Weather elements					
blizzard	BZ	hail	HL	mist patches	PTH-MIST
blowing snow	BS	heavy rain	HVY-RA	rain	RA
drizzle	DZ	heavy snow	HVY-SN	rain and snow mixed	MIX-RASN
flurries	LGT-SN	heavy thunderstorm	HVY-TSTM	scattered	SCT
fog	FG	ice fog	IFG	showers	SHWRS
fog banks	PTH-FG	ice pellets	IP	snow	SN
freezing drizzle	FRZ-DZ	light snow	LGT-SN	thunderstorm	TSTM
freezing rain	FRZ-RA	mist	MST	waterspout	WTSPT

Weather/visibility elements (qualifier)					
at times	OCNL	as low as 1 mile	NR 1	one mile or less	0-1
heavy	HVY	in precipitation	IN-PRECIP	above one mile	ABV 1
occasional	OCNL	near zero	NR 0	visibility	VIS



**Trend descriptors (synopsis)**

building	BLDN	intensifying	INTSF	splitting	SPLIT
dissipating	DISS	merging	MERG	weakening	WKN
deepening	DPN	quasi-stationary	QSTNR	approaching	APCHG

**Systems descriptors (synopsis)**

cold front	C-FRONT	hurricane	HURR	ridge	RIDG
col	COL	low	LOW	storm	STRM
disturbance	DISTURB	trough	TROUGH	tropical depression	TD
flat low	FLAT LOW	post tropical storm	POST-TS	tropical storm	TS
frontal system	FRONT	high	HIGH	warm front	W-FRONT

**Position descriptors (synopsis)**

cape	CAP	lake	LK	Pacific	PAC
coastal	CSTL	longitude	LONG	peninsula	PEN
from	FM	near	NR	river	RIV
island	IS	located on a line	ON LINE	strait	STR
latitude	LAT	over	OVR		

**Cardinal point descriptors (synopsis)**

central	CENTRAL	northeast-southwest	NE-SW	southeast	SE
east	E	Northern	NRN	southeastern	SERN
eastern	ERN	north - south	N-S	southern	SRN
east - west	E-W	Northwest	NW	southwest	SW
from	FM	Northwestern	NWRN	southwestern	SWRN
north	N	northwest-southeast	NW-SE	west	W
northeast	NE	South	S	western	WRN
northeastern	NERN				

**Territorial references (synopsis)**

Alberta	ALTA	New Brunswick	NB	Ontario	ONT
British Columbia	BC	Newfoundland	NFLD	Prince Edward Island	PEI
Great Lakes	GRT LKS	Newfoundland and Labrador	NL	Québec	QUE
Gulf of St Lawrence	GU ST LAW	Nova Scotia	NS	Saskatchewan	SASK
Labrador	LAB	Northwest Territories	NWT	Yukon Territory	YT
Manitoba	MAN				

**ICE ELEMENTS****Ice concentration**

1 tenth	1	6 tenths	6	bergy water	BW
10 tenths	10	7 tenths	7	consolidated	CONS
2 tenths	2	8 tenths	8	ice free	IF
3 tenths	3	9 plus tenths	9+	open water	OW
4 tenths	4	9 tenths	9	trace of	TR-
5 tenths	5	9 to 10 tenths (lake ice)	9-10		

**Ice type**

first year ice	FYI	medium ice	MEDI	thick ice	TKI
grey ice	GI	new ice	NI	thin ice	THI
greywhite ice	GW	old ice	OI	very thick ice	VTKI

**Ice qualifier**

light	LGT	moderate	MOD	strong	STRG
		pressure	PRESS		

**Ice general**

conditions	CDNS	except	EXC	possible	POSS
edge	EDGE	ice	ICE	along the coast	ALNG CST
estimated	EST	including	INCL		

**Ice direction**

eastward	EWD	northwestward	NWWD	southwestward	SWWD
northeastward	NEWD	southeastward	SEWD	westward	WWD
northward	NWD	southward	SWD		

**Table 6: MAFOR DECODE TABLE****MAFOR****YYG<sub>1</sub>G<sub>1</sub>/****0AAAa<sub>m</sub>****1GDF<sub>m</sub>W<sub>m</sub>**YYG<sub>1</sub>G<sub>1</sub>/ YY: Day of the monthG<sub>1</sub>G<sub>1</sub>: Time of commencement of forecast (UTC). Midnight is encoded as 00

0AAAa<sub>m</sub> The maritime area to which the whole forecast or set of forecasts refers. If the geographical name for the forecast region is used instead of the indicator AAAa<sub>m</sub>, it shall be inserted at the place of this group.

a <sub>m</sub>	Portion of the maritime area		
<i>Code</i>		<i>Code</i>	
0	Whole of the area AAA	5	Southwest quadrant of the area AAA
1	Northeast quadrant of the area AAA	6	Western half of the area AAA
2	Eastern half of the area AAA	7	Northwest quadrant of the area AAA
3	Southeast quadrant of the area AAA	8	Northern half of the area AAA
4	Southern half of the area AAA	9	Rest of the area AAA

**1GDF<sub>m</sub>W<sub>m</sub>** **G:** Forecast period**F<sub>m</sub>:** Beaufort number**D:** Direction from which the wind is blowing**W<sub>m</sub>:** Forecast weather

G	Forecast period	D	Wind	F <sub>m</sub>	Wind	W <sub>m</sub>	Forecast weather
<i>Code</i>	<i>Descriptive</i>	<i>Code</i>	<i>direction</i>	<i>Code</i>	<i>Beaufort</i>	<i>Code</i>	
0	Beginning of period	0	Calm	0	0 - 3	0	Visibility greater than 3 nm
1	Valid for 3 hrs	1	Northeast	1	4	1	Risk of accumulation of ice on superstructures
2	Valid for 6 hrs	2	East	2	5	2	Strong risk of accumulation of ice on superstructure
3	Valid for 9 hrs	3	Southeast	3	6	3	Visibility >= 1 nm and <=3 nm
4	Valid for 12 hrs	4	South	4	7	4	Visibility < 1 nm, including fog
5	Valid for 18 hrs	5	Southwest	5	8	5	Drizzle
6	Valid for 24 hrs	6	West	6	9	6	Rain
7	Valid for 48 hrs	7	Northwest	7	10	7	Snow, or rain and snow
8	Valid for 72 hrs	8	North	8	11	8	Squally weather with or without showers
9	Occasionally*	9	Variable	9	12	9	Thunderstorms



**Environment Canada**  
**Environnement Canada**

### SUGGESTIONS / COMMENTS / COMMENTAIRES

<b>Help us to serve you:</b>  Make us aware of your comments regarding the Environment Canada Marine and Ice Services	<b>Aidez-nous à mieux vous servir :</b>  Faites-nous parvenir vos commentaires concernant le programme de prévisions maritimes d'Environnement Canada
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<b>Officer / Officier :</b>  <b>Ship / Navire :</b>  <b>Position Latitude :</b>  <b>Position Longitude :</b>  <b>Date :</b>	     	<b>Return to / Envoyer à:</b>  National Service Operations Division – Marine & Transportation / Division des services opérationnels nationaux – marine et transports Environment Canada / Environnement Canada P.O. Box 370 Gander, NL A1V 1W7  <b>Facsimile :</b> 709-256-6627  <b>Email / Courriel :</b> <a href="mailto:Tom.King@ec.gc.ca">Tom.King@ec.gc.ca</a>
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### Subject / Détails:

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## NORTHERN CANADA

**Includes:** Western and Eastern Arctic, Central and Western Hudson Bay & Major Inland Lakes of Manitoba, Northern Saskatchewan and Northwest Territories.

### Marine Weather Forecast Program

**The Prairie and Arctic Storm Prediction Centre (PASPC)**, which is jointly located in Edmonton and Winnipeg provides marine weather and wave height forecasts in support of Arctic marine activity during the open water season from summer into parts of the fall. The forecast area encompasses Lake Athabasca, Great Slave Lake, the Mackenzie River, as well as the waterways of the Western and High Arctic, and Baffin Bay.

The PASPC also provides marine forecasts for Central and Western Hudson Bay, Hudson Strait, Foxe Basin, Ungava Bay, and Davis Strait. Marine forecasts are also provided for Lake Winnipeg (north and south basins), Lake Manitoba and Lake Winnipegosis during the open water season in support of pleasure and commercial activities.

**Note that marine forecasts for Eastern Hudson Bay and James Bay are provided by the MSC Québec Region.**

The forecast program for the Manitoba Lakes continues through the winter months as a public rather than a marine forecast in aid of commercial ice fishing. Minimum and maximum temperatures along with wind chill are included in the forecast.

**Table 7: Production schedule**

#### a) Text format

Forecast name	Issue Time	Time Zone	Marine region
Technical marine synopsis	06:30, 18:30	MDT / MST	Central Arctic
	04:45, 16:45	EDT / EST	Eastern Arctic
Marine forecast	05:00, 17:00	MDT / MST	Inland waters
	07:00, 19:00	MDT / MST	Western Arctic Waterway
	05:30, 17:30	EDT / EST	Arctic
	05:00, 17:00	CDT / CST	Western Hudson Bay
	05:30, 17:30	EDT / EST	Southern Nunavut
	05:00, 17:00	EDT / EST	Eastern Nunavut
Extended forecast	05:00, 17:00	MDT / MST	Inland waters
	07:00, 19:00	MDT / MST	Western Arctic Waterway
	05:30, 17:30	EDT / EST	Arctic
	05:00, 17:00	CDT / CST	Western Hudson Bay
	05:30, 17:30	EDT / EST	Southern Nunavut
	05:00, 17:00	EDT / EST	Eastern Nunavut
Wave height forecast	07:00, 19:00	MDT / MST	Western Arctic Waterway
	05:30, 17:30	EDT / EST	Arctic
	05:00, 17:00	CDT / CST	Western Hudson Bay
	05:30, 17:30	EDT / EST	Southern Nunavut
	05:00, 17:00	EDT / EST	Eastern Nunavut
Marine weather statement	As required	MDT / MST	Central Arctic
		EDT / EST	Eastern Arctic

**b) NAVTEX format** (refer to Part 2 for the MCTS broadcast schedule):

MCTS Centre	Name	Header	Issue Time
Iqaluit VFF	NAVTEX	FQCN36 CWNT	05:30, 17:30 EDT / EST

**Marine Weather Warnings** (refer to Table 1, Part 5, page 1)

Note the following particulars:

	Warning Types	Comments
1	Strong wind warning	Applies to Manitoba Lakes, Lake Athabasca, Great Slave Lake and Mackenzie River

**Weather and Ice Messages**

Ship weather and ice reports in the international meteorological code, taken at the standard synoptic hours of 0000, 0600, 1200 and 1800 UTC are solicited from ships of all nationalities which have been recruited by their national weather service, or other weather services. These reports should be transmitted directly to the circuit using INMARSAT. Alternatively, the observation should be passed to the nearest Canadian Coast Guard MCTS centre, irrespective of the ship's position. Reports made close to, or even within sight of land, are as important as reports made offshore, due to the greater variability of weather conditions in proximity to a coastline. Such reports contribute to the overall knowledge of Arctic weather from both a real-time operational perspective and from a climate perspective.

The PASPC welcomes weather, sea, and ice observations from the lakes. Real-time observations, and those up to a few hours after the event, are most valuable. Relay observations to 1-800-66STORM / 1-800-667-8676.

**Buoys deployed during the open water season**

WMO #	Location / Information	LAT (deg)	LONG (deg)
45140	Lake Winnipeg South Basin (moored buoy)	50.800 N	096.733 W
45141	Great Slave (moored buoy 25 nm northeast of Hay River)	61.181 N	115.314 W
45144	Lake Winnipeg North Basin (moored buoy)	53.230 N	098.290 W
45145	Lake Winnipeg between North and South Basins	51.870 N	096.970 W
45150	Great Slave (moored buoy - immediate west of Inner Whaleback Rocks)	61.980 N	114.129 W
45158	Hudson Bay SW	59.000 N	094.000 W

The **Great Slave Lake** buoys are deployed in early July and retrieved in late September or early October. They provide hourly wind, air temperature, surface water temperature, and wave data.

The **Lake Winnipeg** South Basin buoys are deployed annually in May or June, and retrieved in October. They provide hourly wind, air temperature, surface water temperature, and wave data.

The **Hudson Bay** buoy is deployed annually mid to late July and retrieved late September or early October. It provides hourly wind, air temperature, surface water temperature, and wave data.

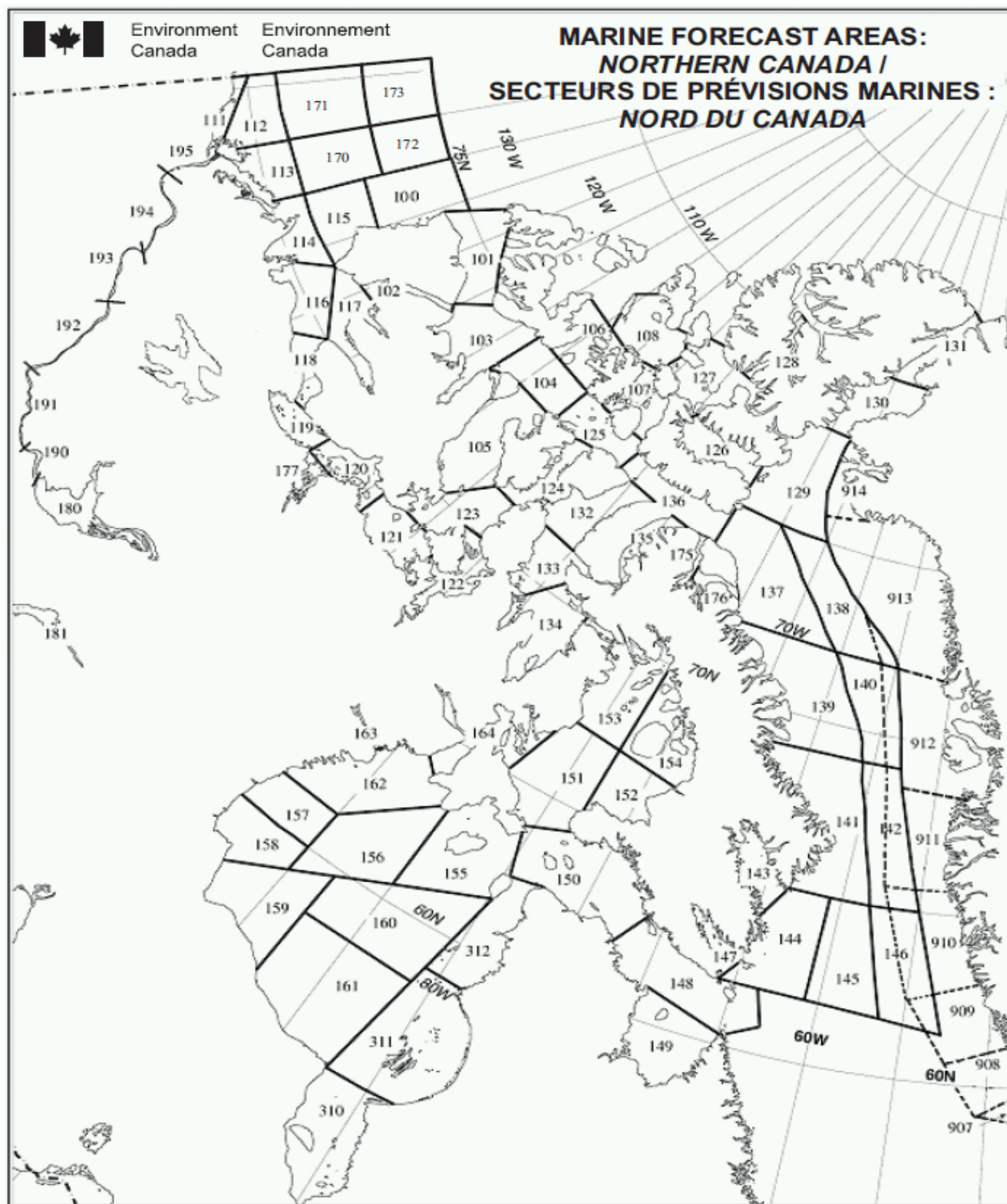
**Weatheradio Canada**

Weatheradio is a public service designed to make weather information available over VHF or FM radio continuously. Weatheradio is dedicated to transmitting up to the minute weather reports and forecasts directly to all users including the marine community.

Environment Canada Weatheradio operates several stations serving Northern region. These are:

Stations	CALL SIGN	Frequency (MHz)	Effective Radiated Power (Watts)	Location
Arviat	<b>CKO583</b>	162.400	27	Arviat
Cape Dorset (Kingait)	<b>XJS717</b>	162.550	25	Cape Dorset (Kingait)
Iqaluit	<b>VEV284</b>	162.550	30	Iqaluit
Iqaluit (FM)	<b>CIQA</b>	93.3	42	Iqaluit Airport
Rankin Inlet (Kangiqliniq)	<b>XJS716</b>	162.400	40	Rankin Inlet (Kangiqliniq)
Hay River	<b>CIE211</b>	162.550	245	Hay River
Inner Whaleback Rocks	<b>XKI403</b>	161.650	8	Inner Whaleback Rocks
Inuvik	<b>VBU996</b>	162.400	54	Hidden Lake
Pine Point	<b>XJS786</b>	162.475	389	Pine Point
Yellowknife	VBC200	162.400	148	Yellowknife Seismic Station
Dauphin	<b>VBA814</b>	162.550	123	Moon Lake
Long Point	VCI386	162.550	72	Long Point
Riverton	XLF471	162.400	195	Riverton
Winnipeg	XLM538	162.550	126	Trizec Building

**Note:** **Winnipeg, Riverton and Long Point** provide **continuous** broadcast of marine weather forecasts and warnings for the Manitoba Lakes, and of marine weather observations when available. Further information regarding EC's Weatheradio network can be obtained via the Internet at <http://www.ec.gc.ca/meteo-weather/default.asp?lang=En&n=792F2D20-1>.





**MARINE FORECAST AREAS****Eastern and Western Arctic Waters**

<b>Number</b>	<b>Area Name</b>	<b>Forecast Availability Period</b> [if required, marine forecasts may also be made available outside the regular availability period upon user request]	<b>Number</b>	<b>Area Name</b>	<b>Forecast Availability Period</b> [if required, marine forecasts may also be made available outside the regular availability period upon user request]
100	Prince Alfred	Shipping season	138	East Baffin	July-August
101	McClure	Shipping season	139	West Clyde	July 01 - Oct. 31
102	Prince of Wales	Shipping season	140	East Clyde	July-August
103	Melville	Shipping season	141	West Davis	July 01 - Oct. 31
104	Rae	Shipping season	142	East Davis	July 01 - Oct. 31
105	McClintock	Shipping season	143	Cumberland	July 01 - Oct. 31
106	Byam	Shipping season	144	West Brevoort	July 01 - Oct. 31
107	Queens	Shipping season	145	Central Brevoort	July 01 - Oct. 31
108	Maclean	Shipping season	146	East Brevoort	July 01 - Oct. 31
109	(unused)	-	147	Frobisher Bay	July 01 - Oct. 31
110	(unused)	-	148	Resolution	July 01 - Oct. 31
111	Yukon Coast	July 01 - Sept. 30	149	Ungava	July 01 - Oct. 31
112	Mackenzie	July 01 - Oct. 10	150	Nottingham	July 01 - Oct. 31
113	Tuktoyaktuk	July 01 - Oct. 10	151	West Foxe	Shipping season
114	Baillie	July 15 - Sept. 30	152	East Foxe	Shipping season
115	Banks	Shipping season	153	Igloodik	Shipping season
116	Amundsen	July 15 - Sept. 30	154	Prince Charles	Shipping season
117	Holman	Shipping season	155	Coats	Shipping season
118	Dolphin	July 15 - Sept. 30	156	Central	Shipping season
119	Coronation	July 15 - Sept. 30	157	Arviat	July 01 - Oct. 15
120	Dease	July 15 - Sept. 30	158	Churchill	July 01 - Oct. 15
121	Maud	Shipping season	159	York	Shipping season
122	St. Roch	Shipping season	160	South-central Hudson	Shipping season
123	Larsen	Shipping season	161	South Hudson	Shipping season
124	Peel	Shipping season	162	Rankin	July 01 - Oct. 15
125	Barrow	July 01 - Oct. 31	163	Baker	July 01 - Sept. 30
126	Jones	Shipping season	164	Roes Welcome	Shipping season
127	Norwegian	Shipping season	170	North Tuktoyaktuk	July 01 - Oct. 31
128	Eureka	Shipping season	171	North Mackenzie	July 01 - Oct. 31

129	Clarence	Shipping season	172	West Prince Alfred	July 01 - Oct. 31
130	Kane	Shipping season	173	Northwest Beaufort	July 01 - Oct. 31
131	Robeson	Shipping season	175	Navy Board	July 01 - Oct. 31
132	Regent	Shipping season	176	Pond	July 01 - Oct. 31
133	Boothia	Shipping season	177	Bathurst	July 01 - Oct. 31
134	Committee	Shipping season	310	James Bay	Navigation season
135	Admiralty	Shipping season	311	Belcher	Navigation season
136	Lancaster	July 01 – Oct. 31	312	Povungnituk	Navigation season
137	West Baffin	July 01 – Oct. 31			

**Inland waters:**

Number	Area name	Availability period
180	Great Slave Lake	June 15 - October 31
181	Lake Athabasca	Open water season
182	Lake Manitoba	Open water season
183	Lake Winnipeg - south basin	Open water season
184	Lake Winnipeg - north basin	Open water season
185	Lake Winnipegosis	Open water season
190	Wrigley Harbour (mile 0) to Axe Point (mile 91)	June 01 - Oct. 20
191	Axe Point (mile 91) to Camsell Bend (mile 290)	June 01 - Oct. 20
192	Camsell Bend (mile 290) to Tulita (mile 512)	June 01 - Oct. 20
193	Tulita mile (512) to Fort Good Hope (mile 684)	June 01 - Oct. 20
194	Fort Good Hope (mile 684) to Point Separation (mile 913)	June 01 - Oct. 20
195	Point Separation mile (913) to Kittigazuit Bay (mile 1081)	June 01 - Oct. 20

**Danish Marine Forecasts for Baffin Bay Waters available via Danish Meteorological Institute,  
Copenhagen Tel: (45) 39 15 7500:**

Number	Area Name	Period	Number	Area Name	Period
907	Nunap Isuata Kitaa	Year round	911	Attu	Year round
908	Nuuarsuit	Year round	912	Uiffaq	Year round
909	Narsalik	Year round	913	Qimusseriarsuaq	Year round
910	Meqqitsoq	Year round	914	Kiatak	Year round

**Marine Weather Observations - Manned station reports for:**

Aklavik	Lake Winnipeg: Gimli	Norman Wells
Fort MacPherson	Lake Winnipeg: Grand Rapids	Sachs Harbour
Fort Resolution	Lake Winnipeg: George Island	Tuktoyaktuk
Hay River	Lake Winnipeg: Norway House	Yellowknife
Inuvik	Lake Winnipeg: Berens River	
	Lake Winnipeg: Victoria Beach	

**Marine Weather Observations – Automatic station reports for:**

Inner Whale Back Island auto-station
Egg Island auto-station (Lake Athabasca)

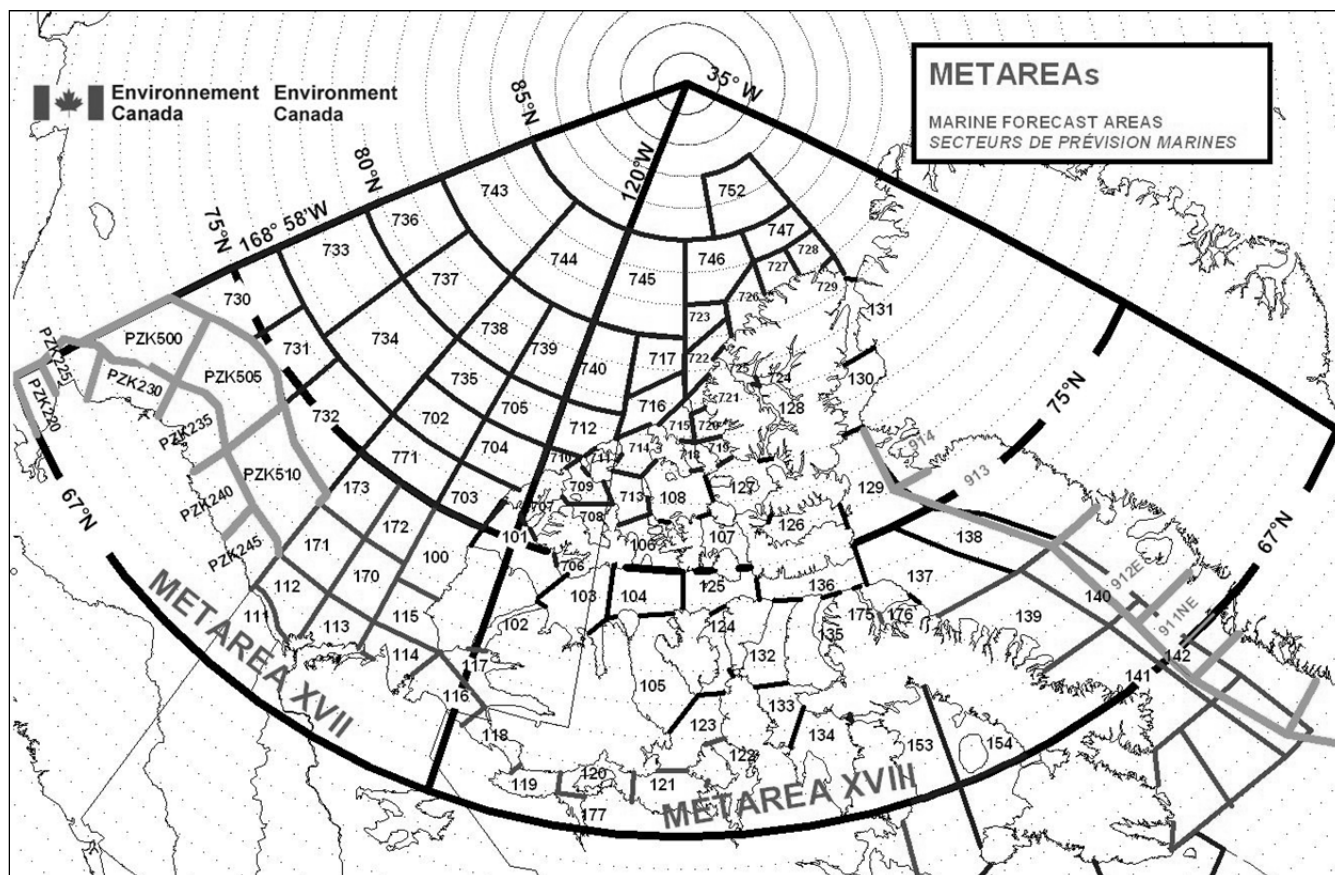
**Marine Weather Observations – Buoy reports for:**

45141 Great Slave Lake Buoy	45140 Lake Winnipeg Buoy (South Basin)
45150 Great Slave Lake Buoy	45144 Lake Winnipeg Buoy (North Basin)

**Marine forecast service to METAREAs XVII and XVIII**

Environment Canada's METAREAS Forecast Program began in 2011. The boundaries of METAREA XVII are as follows: from 67° N 168° 58' W to 90° N to 67° N 120° W then back to 67° N 168° 58' W. The boundaries of METAREA XVIII are as follows: from 67° N 120° W to 90° N to 67° N 035° W then back to 67° N 120° W.

Marine weather and wave height forecast are issued twice-daily for sections of METAREAs XVII and XVIII (see map):.



**Serviced forecast zones**

Environment Canada currently provides marine weather and wave height forecasts to the following marine zones within METAREAs XVII and XVIII:

FQCN01 CWNT - marine forecasts for METAREA XVII north of 75° N:

Number	Area Name	Number	Area Name
101	McClure	734	CU2
702	CU4	735	CU3
703	South Prince Patrick	736	CV1
704	Prince Patrick	737	CV2
705	North Prince Patrick	738	CV3
730	CT1	739	CV4
731	CT2	743	CW1
732	CT3	744	CW2
733	CU1	771	CT4

FQCN02 CWNT - marine forecasts for METAREA XVII south of 75° N:

Number	Area Name	Number	Area Name
100	Prince Alfred	117	Holman
101	McClure	170	North Tuktoyaktuk
111	Yukon Coast	171	North MacKenzie
112	MacKenzie	172	West Prince Alfred
113	Tuktoyaktuk	173	Northwest Beaufort
114	Baillie	730	CT1
115	Banks	731	CT2
116	Amundsen	732	CT3

FQCN03 CWNT - marine forecasts for METAREA XVIII north of 75° N:

Number	Area Name	Number	Area Name
101	McClure	719	Massey
106	Byam	720	South Sverdrup
107	Queens	721	North Sverdrup
108	MacLean	722	South Axel Heiberg
126	Jones	723	Axel Heiberg
127	Norwegian	724	Greely
128	Eureka	725	Nansen
129	Clarence	726	Ellesmere
130	Kane	727	Ward Hunt
131	Robeson	728	Bartlett
701	Brock	729	Alert
707	Fitzwilliam	740	CV5
708	Griper	741	CV6
709	Ballantyne	742	CV7
711	Wilkins	745	CW3
712	Borden	746	CW4
713	Hazen	747	CW5
714	Gustaf	748	CW6
715	Peary	751	CX3
716	South Ellef Ringnes	752	CX4
717	Ellef Ringnes	753	CX5
718	Hassel		

**FQCN04 CWNT - marine forecasts for METAREA XVIII south of 75° N:**

Number	Area Name	Number	Area Name
101	McClure	133	Boothia
102	Prince of Wales	134	Committee
103	Melville	135	Admiralty
104	Rae	136	Lancaster
105	McClintock	137	West Baffin
116	Amundsen	138	East Baffin
117	Holman	139	West Clyde
118	Dolphin	140	East Clyde
119	Coronation	141	West Davis
120	Dease	142	East Davis
121	Maud	153	Igloodik
122	St. Roch	154	Prince of Charles
123	Larsen	175	Navy Board
124	Peel	176	Pond
125	Barrow	177	Bathurst
132	Regent	706	Liddon

Forecast service to U.S waters within METAREA XVII is provided by the National Weather Service. Forecast service to Greenlandic waters within METAREA XVIII is provided by the Danish Meteorological Institute. Further information may be obtained by contacting these agencies directly.

Detailed information regarding the geographic locations and boundaries associated with the METAREAs forecast zones may be obtained by contacting the Meteorological Service of Canada at the following:

Telephone: +1 (709) 256-6612  
 Facsimile: +1 (709) 256-6627  
 Email: [metareas17.18@ec.gc.ca](mailto:metareas17.18@ec.gc.ca)

Additional information may be obtained by consulting the Joint Commission on Oceanography and Marine Meteorology (JCOMM) web site at <http://weather.gmdss.org> or by consulting the Canadian Coast Guard notices to mariners (NOTMAR) website at <http://notmar.gc.ca>.

**METAREAs forecast transmission**

During the navigation season meteorological Maritime Safety Information (met MSI) consisting of marine weather warnings and forecasts for sections of METAREA XVII and XVIII south of 75 degrees latitude will be broadcast via Inmarsat-C SafetyNET. Scheduled broadcast times are:

METAREA XVII (POR) at 0300 UTC and 1500 UTC daily.  
 METAREA XVIII (AOR-W) at 0300 UTC and 1500 UTC daily.

Messages will be transmitted to a rectangular addressed area until Inmarsat-C or Mini-C terminals operating in Arctic waters have been updated. Users should note that meteorological MSI received by their sat-C terminals may be labeled as navigational MSI.

During the navigation season met MSI for sections of METAREA XVII and XVIII north of 70° N will be broadcast via HF Narrow Band Direct Printing on 8416.5 kHz from the Canadian Coast Guard centre in Iqaluit, NU. Scheduled broadcast times are 0330 UTC and 1530 UTC daily. Mariners should note that actual HF service provision dates will be announced by Canadian Coast Guard Notice to Shipping.

## NEWFOUNDLAND AND LABRADOR

### Marine Weather Forecast Program

The Newfoundland and Labrador Weather Office (NLWO) in Gander provides year-round marine weather and wave height information for the waters around Newfoundland and Labrador out to approximately 250 nm and the waters of the Gulf of St. Lawrence, and for other specific bodies of water.

#### The regular program

This consists of a **full 24 hours, 7 days a week weather watch, warning and amendment service** provided by the Newfoundland and Labrador Weather Office in Gander. The regular marine forecast covers the period out to midnight of the following day (days 1 and 2). An extended marine wind outlook covering the next 3 days (days 3, 4, and 5) is also produced.

Wave height forecasts are produced twice a day and cover the period out to midnight of the following day.

**Table 8: Production schedule**

#### a) Text format:

Forecast name	Issue Time	Time Zone	Marine region
Technical marine synopsis	03:00, 10:00, 15:30, 20:00	NDT / NST	Newfoundland
	04:00, 09:30, 16:00, 21:30	NDT / NST	Labrador
Marine forecast	03:00, 10:00, 15:30, 20:00	NDT / NST	Newfoundland
	04:00, 09:30, 16:00, 21:30	NDT / NST	Labrador
Marine weather statement	As needed		
Wave height forecast	06:00, 18:00	NDT / NST	Newfoundland
	06:00, 18:00	NDT / NST	Labrador
Extended marine forecast	05:00, 16:30	NDT / NST	Newfoundland
	05:00, 16:30	NDT / NST	Labrador

#### b) NAVTEX format (refer to Part 2 for the MCTS broadcast schedule):

MCTS Centres	Name	Header	Issue Time
St. John's VON	Navtex	FQCN33 CYQX	03:00, 06:00, 10:00, 15:30, 18:00, 20:00 NDT / NST
Labrador VOK	Navtex	FQCN35 CYQX	04:00, 06:00, 10:00, 16:00, 18:00, 21:30 NDT / NST

### Marine Weather Observations and Forecast Bulletins

Observations available on the Environment Canada Weatheradio network are updated hourly and include a series of coastal stations extending around the coast of Newfoundland and Labrador, and from the coast of Maine, around the Maritimes and into the Gulf of St. Lawrence, as well as offshore buoys. Marine forecast bulletins are updated at regular intervals or whenever necessary. These bulletins are available on MSC's Automated Telephone Answering Device (ATAD), as well as Weatheradio and Canadian Coast Guard's Continuous Marine Broadcast (CMB).

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**Weatheradio Canada**

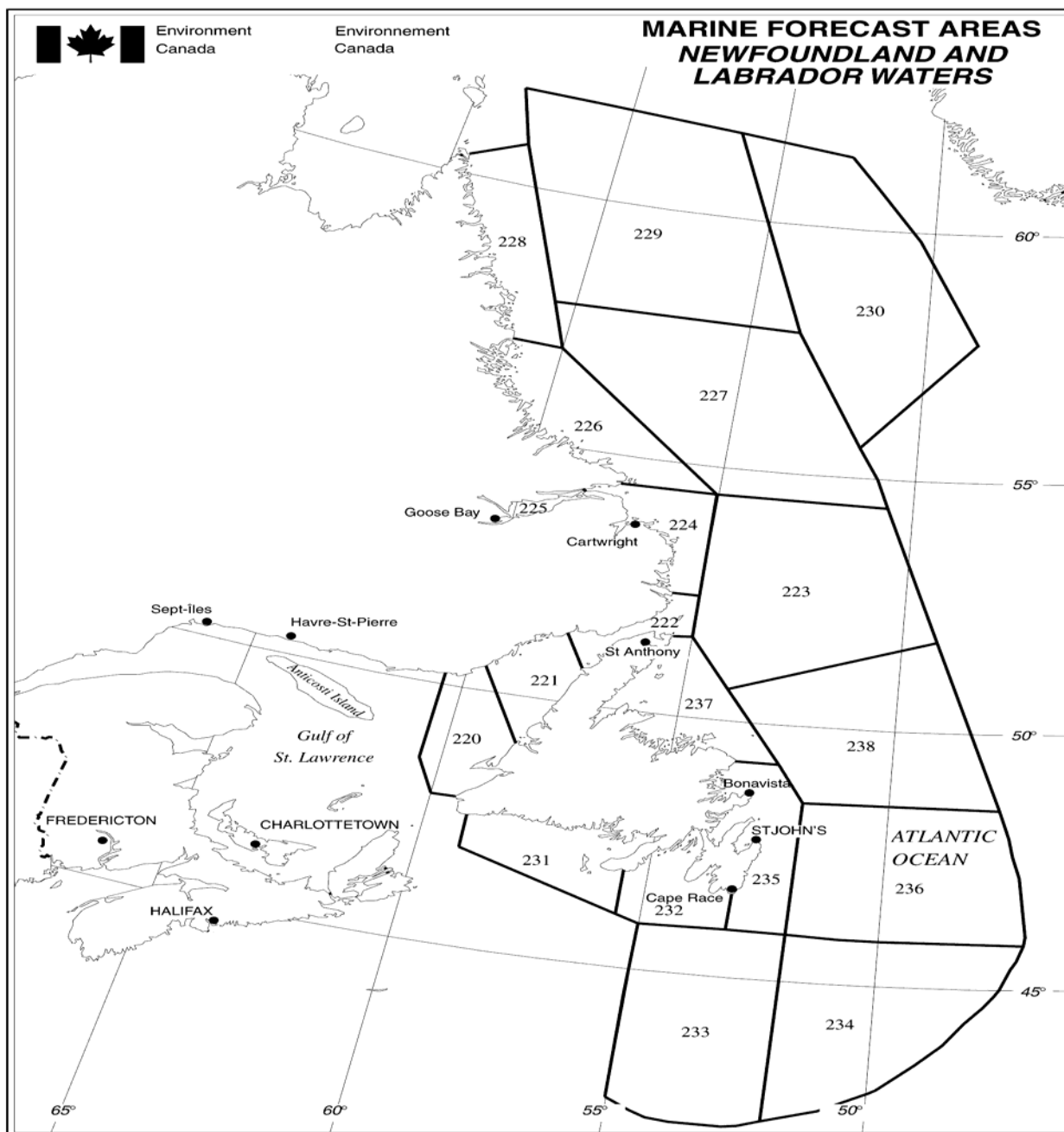
Weatheradio is a public service designed to make weather information available over VHF or FM radio continuously. Weatheradio is dedicated to transmitting up to the minute weather reports and forecasts directly to all users including the marine community.

There is one main station in the Newfoundland and Labrador region:

Station	CALL SIGN	Repeaters
Gander	XLM 616	15

**Frequencies in use:** 162.400 MHz and 162.550 MHz.

Broadcasts can be received over most coastal areas of Newfoundland and southern Labrador, and include marine weather and ice warnings, regular marine and wave height forecasts, and synopses. Hourly updated observations from coastal stations and offshore buoys are all incorporated in the broadcast. Further information regarding EC's Weatheradio network can be obtained via the Internet at <http://www.ec.gc.ca/meteo-weather/default.asp?lang=En&n=792F2D20-1>.





**MARINE FORECAST AREAS****Newfoundland and Labrador Waters:**

220	Gulf - Port au Port	227	South Labrador Sea	233	Southwestern Grand Banks
221	Northeast Gulf	228	North Labrador Coast	234	Southeastern Grand Banks
222	Strait of Belle Isle	229	Northwest Labrador Sea	235	East Coast
223	Belle Isle Bank	230	East Labrador Sea	236	Northern Grand Banks
224	South Labrador Coast	231	Southwest Coast	237	Northeast Coast
225	Lake Melville	232	South Coast	238	Funk Island Bank
226	Mid Labrador Coast				

**Marine Weather Observations:**

Argentia	Englee	Natashquan
Blanc Sablon	Ferolle Pt.	Pool's Island
Bonavista	Goose Bay	Port aux Basques
Burgeo	Grates Cove	Sagona Island
Cape Whittle	Hopedale	St. Anthony Airport
Cape d'Espoir	LaScie	St Anthony's Harbour
Cape Race	Makkovik	St. John's
Cartwright	Marticot Island	St. Pierre
Chevery	Mary's Harbour	Stephenville
Daniel's Harbour	Nain	Twillingate

Observations will be broadcast only when available.

Hourly updated observations from coastal stations and offshore buoys may also be available on **Weatheradio**

## MARITIMES REGION

### Marine Weather Forecast Program

The Atlantic Storm Prediction Centre (ASPC) in Dartmouth NS provides year-round marine weather and wave height information for the waters around the Maritimes to approximately 250 nm offshore, and the waters of the Gulf of St. Lawrence, as well as for other specific bodies of water.

#### The regular program

This consists of a **full 24 hours, 7 days a week weather watch, warning and amendment service**, including a detailed forecast for Halifax Harbour. The regular marine forecast covers the period out to midnight of the following day (days 1 and 2). An extended marine wind outlook covering the next 3 days (days 3, 4, and 5) is also produced.

Wave height forecasts are produced twice a day and cover the period out to midnight of the following day.

#### The recreational program

The recreational program covers the waters of Bras d'Or Lakes in Cape Breton during the summer season (May 1 to October 31) and is provided as a service to recreational boaters. Recreational forecasts are issued 3 times a day.

**Table 9: Production schedule**

**a) Text format:**

Forecast name	Issue Time	Time Zone	Marine region
Technical marine synopsis	03:00, 10:00, 15:30, 20:00	ADT / AST	Maritimes
Marine forecast	03:00, 10:00, 15:30, 20:00	ADT / AST	Maritimes
	03:00, 10:00, 15:30, 20:00	ADT / AST	Halifax Harbour and Approaches
Recreational boating marine forecast	03:00, 10:00, 15:30	ADT / AST	Bras d'Or Lakes
Marine weather statement	As needed		
Wave height forecast	05:00, 17:00	ADT / AST	Maritimes
Extended marine forecast	03:00, 15:30	ADT / AST	Maritimes

**b) NAVTEX format (refer to Part 2 for the MCTS broadcast schedule):**

MCTS	Name	Header	Issue Time
Saint John VAR	NAVTEX	FQCN33 CWHX	03:00, 05:00, 10:00, 15:30, 17:00, 20:00 ADT / AST
Sydney VCO	NAVTEX/1	FQCN34 CWHX	03:00, 05:00, 10:00, 15:30, 17:00, 20:00 ADT / AST
	NAVTEX/2	FQCN34 CYQX	03:00, 06:00, 10:00, 15:30, 18:00, 20:00 NDT / NST

**Marine Weather Warnings** (refer to Table 1, Part 5, page 1). **Note the following regional particularities:**

	Warning Types	Comments
1	Strong wind warning	This warning is indicated in the forecast for coastal waters of the Maritimes and for the Halifax Harbour and the Bras d'Or Lakes Issued between April 15 and November 15.

**Marine Weather Observations and Forecast Bulletins**

Observations and forecast bulletins are available on MSC's Automated Telephone Answering Device (ATAD) and Weatheradio. Observations are updated hourly and include a series of coastal stations extending from the coast of Maine around the Maritimes and into the Gulf of St. Lawrence, as well as offshore buoys. Marine forecast bulletins are updated at regular intervals or whenever necessary and are available on Weatheradio and the Canadian Coast Guard's continuous marine broadcast.

**Canadian Hurricane Centre**

**The Canadian Hurricane Centre (CHC)** is co-located with the Atlantic Storm Prediction Centre. It becomes operational when a storm system of tropical origin enters or threatens to enter the designated response zone within 48-72 hrs. The CHC may begin to issue associated bulletins if the storm is north of 36°N and west of 41°W. When operational, the Canadian Hurricane Centre issues bulletins every 6 hours which include information statements for Public and Media notification and Prognostic messages for use by MSC and Canadian Forces weather offices. Bulletins are issued at intervals of 3 hours when the storm threatens land.

**Moored Buoys - Positions North-West Atlantic Ocean:**

WMO#	Name	LAT (deg)	LONG (deg)
44137	East Scotia Slope	42.234 N	62.018 W
44138	SW Grand Banks	44.251 N	53.633 W
44139	Banquereau	44.240 N	57.103 W
44140	Tail of the Grand Banks	42.868 N	51.467 W
44141	Laurentian Fan	42.993 N	57.958 W
44150	La Have Bank	42.505 N	64.018 W
44251	Nickerson Bank	46.444 N	53.392 W
44255	NE Burgeo Bank	47.267 N	57.336 W
44258	Halifax Harbour Approaches	44.502 N	63.403 W

**Weatheradio Canada**

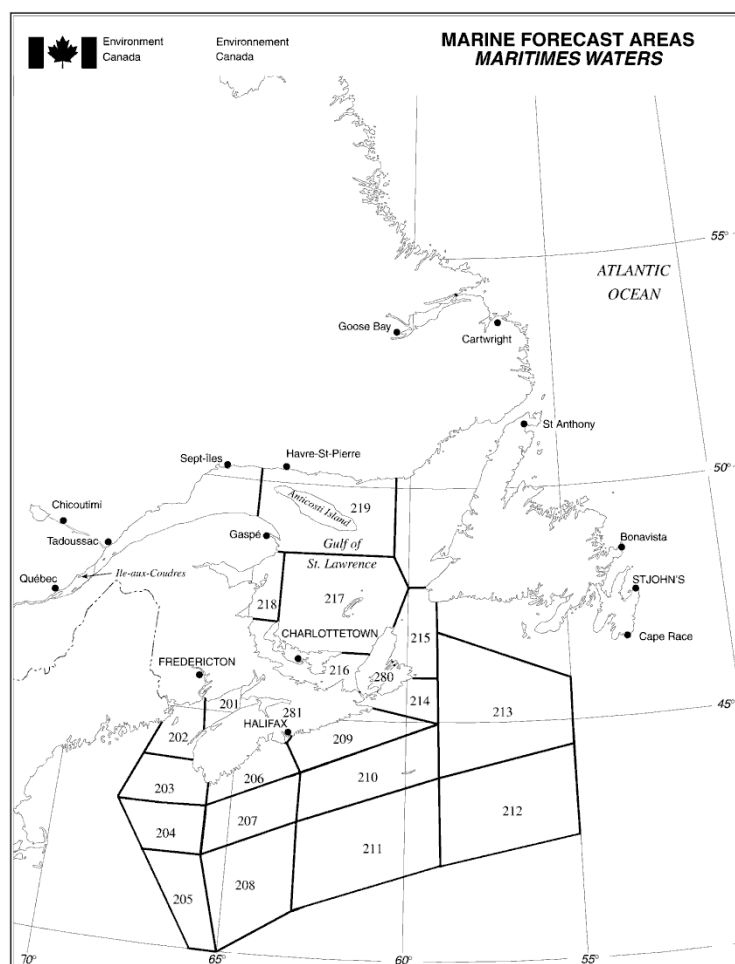
Weatheradio is a public service designed to make weather information available over VHF or FM radio continuously. Weatheradio is dedicated to transmitting up to the minute weather reports and forecasts directly to all users including the marine community.

There are 2 main stations in the Maritimes region:

Stations	CALL SIGN	Repeaters
<b>Moncton</b>	XLM 466	8
<b>Halifax</b>	XLK 473	14

**Frequencies in use:** 162.400 MHz, 162.475 MHz, 162.500 MHz and 162.550 MHz.

Broadcasts can be received over most coastal areas of New Brunswick, Nova Scotia and Prince Edward Island. Broadcasts include marine weather and ice warnings, and marine forecasts including wave heights, and synopses. Hourly updated observations from coastal stations and offshore buoys are all incorporated in the broadcast.



**MARINE FORECAST AREAS****Maritime Waters:**

201 Fundy	208 West Scotian Slope	215 Cabot Strait
202 Grand Manan	209 Eastern Shore	216 Northumberland Strait
203 Lurcher	210 Sable	217 Gulf – Magdalen
204 Browns Bank	211 East Scotian Slope	218 Chaleur – Miscou
205 Georges Bank	212 Laurentian Fan	219 Anticosti
206 Southwestern Shore	213 Banquereau	280 Bras d’Or Lakes
207 La Have Bank	214 Fourchu	281 Halifax Harbour and Approaches

**Marine Weather Observations:**

Cap d’Espoir	Pointe-des-Monts	St. Paul Island
Miscou	Port aux Basques	St. Pierre
Natashquan	Port Menier	Sept-Iles
Pointe Heath (Anticosti)	Rivière-au-Renard	

Observations will be broadcast only when available.

Hourly updated observations from coastal stations and offshore buoys may also be available on **Weatheradio**.

## QUÉBEC REGION

### Marine Weather Forecast Program

The program provides weather information for the St. Lawrence waterway, the Saguenay River, James Bay and eastern Hudson Bay, as well as for other specific lakes or navigable waterways.

#### The regular program

Area of coverage includes the St. Lawrence waterway between Cornwall, Ontario, and Anticosti Island (65°W), and the navigable waterway of the Saguenay River between Saguenay and Tadoussac (see map areas 301-309). The program provides a **full 24 hours, 7 days a week weather watch, warning and amendment service**. Regular forecasts are issued twice a day from the Québec Storm Prediction Centre in Montréal. **Time coverage: Year round St. Lawrence Seaway portion (Cornwall to Montréal) in open season only.**

Wave height forecasts are issued twice a day for marine areas 301, 302, 303 and 305.

#### The northern program

Area of coverage: James Bay and eastern Hudson Bay (See map areas 310-311-312). The northern program provides a full 24 hours, 7 days a week weather watch, warning and amendment service during the navigation season. Forecasts are issued twice a day. The northern program is active during the navigation season from July to November.

Wave height forecasts are also issued twice a day for marine areas **310, 311 and 312** (see **Forecast Areas map** below).

#### The recreational program

Area of coverage is for various inland lakes and navigable waterways (see map areas **380 to 386**). The recreational program is active from May to October. Also provided is a full 24 hours, 7 days a week **squall warning service** during the summer months (refer to Table 2, Part 5, page 2).

**Table 10: Production schedule**

#### a) Text format:

Forecast name	Issue Time	Time Zone	Marine region
Technical marine synopsis	03:00, 15:00	EDT / EST	St. Lawrence and Saguenay rivers
	06:00, 18:00	EDT / EST	Eastern Hudson Bay
Marine forecast	03:00, 15:00	EDT / EST	St. Lawrence and Saguenay rivers
	06:00, 18:00	EDT / EST	Eastern Hudson Bay
Marine weather statement	As needed		
Wave height forecast	03:00, 15:00	EDT / EST	St. Lawrence River
	06:00, 18:00	EDT / EST	Eastern Hudson Bay
MAFOR	03:00, 15:00	EDT / EST	St. Lawrence and Saguenay rivers
Extended marine forecast	06:00, 18:00	EDT / EST	St. Lawrence and Saguenay rivers
	06:00, 18:00	EDT / EST	Eastern Hudson Bay

**b) NAVTEX format** (refer to Part 2 for the MCTS broadcast schedule):

MCTS	Name	Header	Issue Time
Rivière-au-Renard VCG	NAVTEX/1	FQCN37 CWUL	03:00, 15:00 EDT / EST
	NAVTEX/2	FQCN37 CWHX	03:00, 05:00, 10:00, 15:30, 17:00, 20:00 ADT / AST
	NAVTEX/3	FQCN37 CYQX	03:00, 06:00, 10:00, 15:30, 18:00, 20:00 NDT / NST

**Marine Weather Warnings** (refer to Table 1, Part 5, page 1).

Note the following regional particularities with respect to the **regular** programs:

	Warning Types	Comments
<b>1</b>	Strong wind warning	Issued between April and October only. Regular program only.

### Marine Weather Observations and Forecast Bulletins

Environment Canada operates a network of coastal and insular weather observing stations as well as one weather buoy. Hourly weather reports from these stations are available continuously on Environment Canada's Weatheradio (see **Weatheradio Canada** below) and on request from the Canadian Coast Guard MCTS centres (refer to Marine Weather Observations). Marine forecasts are updated at regular intervals or whenever necessary and are available on Weatheradio and Canadian Coast Guard's continuous marine broadcast.

### Buoy Position St. Lawrence River

In order to complement its network of coastal and insular weather observing stations, Environment Canada operates one weather buoy on the St. Lawrence River. Mariners are requested to use caution when approaching the buoy as mooring chains are normally not detectable from a ship and can be damaged or even severed if there is contact.

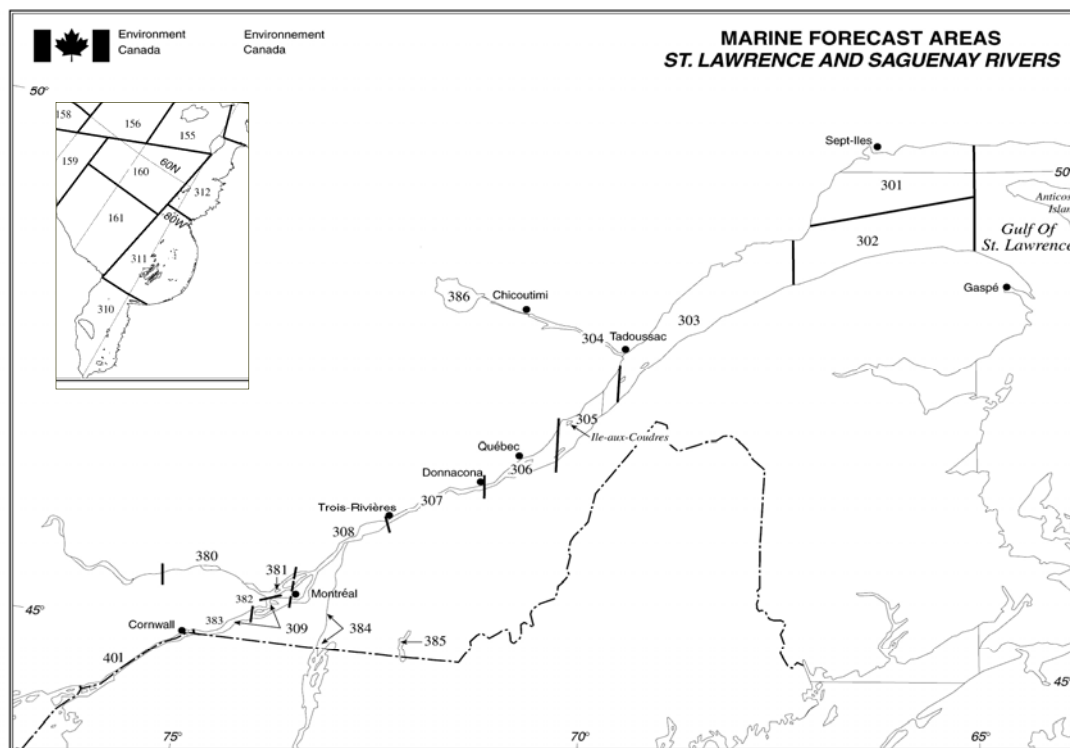
WMO#	Name	LAT (deg)	LONG (deg)
45138	Mont Louis	49.543 N	65.760 W

## Weatheradio Canada

Weatheradio is a public service designed to make weather information available over VHF or FM radio continuously. Weatheradio is dedicated to transmitting up to the minute weather reports and forecasts directly to all users including the marine community. The table below lists all the Weatheradio stations under the responsibility of Environment Canada - Québec region broadcasting marine forecasts and weather reports, showing the stations and frequencies:

Stations	Frequency (Mhz)	Stations	Frequency (Mhz)
Montréal	162.550	Prevert	162.475
Trois-Rivières	162.400	Rivière-au-Renard	162.475
Québec	162.550	Gaspé (Pudding Stone)	162.550
Baie St-Paul	162.400	Carleton	162.500
Grand-Fonds	162.475	Mingan	162.400
Mont Valin	162.550	Kegaska	162.475
Rimouski	162.550	Harrington Harbour	162.550
St-Cléophas	162.400	Blanc-Sablon	162.400
Sept-Iles (Pointe Noire)	162.550	Magdalen Islands	162.550

**Gaspé (Pudding Stone), Carleton, Mingan, Kegaska, Harrington Harbour, Blanc Sablon and Magdalen Islands** - also broadcast marine forecasts issued from Environment Canada – Atlantic region (refer to the Maritimes Region and the Newfoundland and Labrador Region).





**MARINE FORECAST AREAS****Québec waters**

<b>St Lawrence/Saguenay</b>		<b>Hudson Bay</b>	
301	Pointe-des-Monts to Anticosti - northern half	310	James Bay
302	Pointe-des-Monts to Anticosti - southern half	311	Belcher
303	Tadoussac to Pointe-des-Monts	312	Puvirnitug
304	Saguenay to Tadoussac		
305	Isle-aux-Coudres to Tadoussac	<b>Major inland waters</b>	
306	Donnacona to Isle-aux-Coudres		
307	Trois-Rivières to Donnacona	384	Richelieu and Northern Lake Champlain
308	Montréal to Trois-Rivières	385	Lake Memphrémagog - northern half
309	Cornwall to Montréal	386	Lake Saint-Jean

**Marine Weather Observations – St. Lawrence and Saguenay Rivers**

Baie-Comeau	Île Charron	Pointe Claveau
Cap Rouge	Île d'Orléans (St François)	Pointe-des-Monts
Cap-chat	Île Rouge	Port Alfred
Dorval Airport	Île St-Quentin	Rivière-au-Renard
Île aux Grues	Lauzon	Sept-Îles
Île Bicquette	Mont-Joli	St.-Hubert Airport

Reports are broadcast only when available.

## GREAT LAKES INCLUDING ST. LAWRENCE RIVER TO CORNWALL

### Marine Weather Forecast Program

The program provides marine weather information for the navigable waterway between Cornwall and Thunder Bay, and for other specific lakes or navigable waterways. Note that the program is applicable only to waters that lie on the Canadian side of the Canada-U.S. border.

### The regular program

In addition to the Great Lakes, the area of coverage includes the waterway between Cornwall and Thunder Bay and is in effect **year round** except for the St. Lawrence Seaway portion where the service is only offered during the navigation season. The marine areas include: Lake Superior, Whitefish Bay, Lake Huron, Georgian Bay, Lake St. Clair, Lake Erie, Lake Ontario, and the St. Lawrence Seaway from Kingston to Cornwall. Note that the marine forecast applies to either the entire lake or the specified body of water comprising the forecast area of responsibility. The program provides a **full 24 hours, 7 days a week weather watch, warning and amendment service**. Synopses, regular marine and wave height forecasts are issued 3 times a day from the Ontario Storm Prediction Centre in Toronto.

### The recreational program

Marine forecasts tailored to the needs of recreational boaters are issued during the recreational boating season 3 times a day for Lake Simcoe, Lake Nipissing, Lake of the Woods, the North Channel and Lake Nipigon. The season runs from May 15 to October 31, except for Lake Simcoe which runs from April 1 to November 30.

**Table 11: Production schedule**

#### a) Text format:

Forecast name	Issue Time	Time Zone	Marine region
Technical marine synopsis	03:00, 10:30, 18:30	EDT / EST	Great Lakes and the Ontario portion of the St. Lawrence River
Marine forecast	03:00, 10:30, 18:30	EDT / EST	Great Lakes and the Ontario portion of the St. Lawrence River
Recreational boating marine forecast	05:00, 11:30, 17:30	EDT / EST	Lake of the Woods, Lake Nipigon, North Channel, Lake Nipissing, Lake Simcoe
Marine weather statement	As needed		
Wave height forecast	03:00, 10:30, 18:30	EDT / EST	Great Lakes only
MAFOR	03:00, 10:30, 18:30	EDT / EST	Great Lakes and the Ontario portion of the St. Lawrence river
Extended marine forecast	03:00, 18:30	EDT / EST	Great Lakes and the Ontario portion of the St. Lawrence River

#### b) NAVTEX format (refer to Part 2 for the MCTS broadcast schedule):

MCTS Centres	Name	Header	Issue Time
Prescott VBR	NAVTEX	FQCN38 CWTO	03:00, 10:30, 18:30 EDT / EST
Thunder Bay VBA	NAVTEX	FQCN39 CWTO	03:00, 10:30, 18:30 EDT / EST

**Marine Weather Warnings** (refer to Table 1, Part 5, page 1.

Note the following regional particularities with respect to the **regular** program:

	Warning Types	Comments
1	Strong wind warning	Issued April-Nov. and applies to Canadian waters only

**Buoys**

In order to complement the observational network, Environment Canada operates a network of buoys around the Great Lakes. This data becomes part of the collection of weather reports used to improve marine forecasting. Mariners are requested to use caution when approaching buoys as mooring chains are normally not detectable from a ship and can be damaged or even severed if there is contact, which could result in the buoy becoming adrift and a costly recovery of the platform. Please keep the regional Port Meteorological Officers informed of any incidents involving buoys.

**Canadian Buoys**

WMO#	Name	LAT (deg)	LONG (deg)
45132	Port Stanley	42.467 N	81.216 W
45135	Prince Edward Pt	43.791 N	76.874 W
45136	Slate Island	48.535 N	86.953 W
45137	North Georgian Bay	45.544 N	81.015 W
45139	West Ontario	43.264 N	79.541 W
45142	Port Colborne	42.737 N	79.290 W
45143	South Georgian Bay	44.945 N	80.627 W
45147	Lake St. Clair	42.430 N	82.683 W
45148	Lake of the Woods	49.660 N	94.519 W
45149	Southern Lake Huron (Bayfield)	43.542 N	82.075 W
45151	Lake Simcoe	44.500 N	79.368 W
45152	Lake Nipissing	46.233 N	79.716 W
45154	North Channel East	46.051 N	82.637 W
45159	NW Lake Ontario Ajax	43.767 N	78.984 W

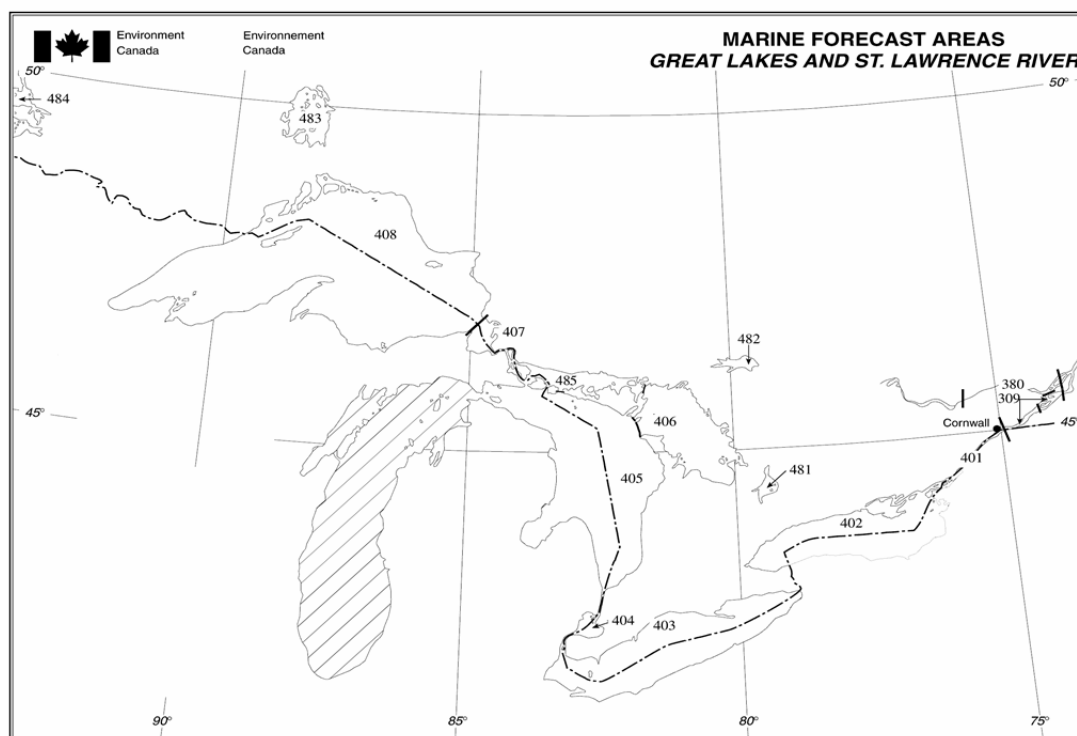
**US Buoys**

WMO#	Name	LAT (deg)	LONG (deg)
45001	Mid Superior	48.064 N	87.777 W
45002	Michigan N.	45.344 N	86.411 W
45003	N. Huron	45.351 N	82.840 W
45004	E. Superior	47.584 N	86.587 W
45005	W. Erie	41.677 N	82.398 W
45006	W. Superior	47.335 N	89.793 W
45007	S. Michigan	42.675 N	87.025 W
45008	S. Huron	44.283 N	82.416 W
45012	Lake Ontario	43.619 N	77.405 W

## Weatheradio Canada

Weatheradio in this region comprises a very comprehensive network of stations covering the Great Lakes area. Frequencies in use are: **162.400 MHz, 162.475 MHz, and 162.550 MHz**. Broadcasts include marine warnings and forecasts as well as inland warnings and forecasts. Hourly updated observations from coastal stations and buoys are also incorporated in the broadcast.

Note: **Weatheradio Canada** automatically alerts users to severe weather warnings. If receivers are equipped with suitable alert devices they will emit a loud continuous tone and/or flashing light when a warning is issued.



## MARINE FORECAST AREAS

### Ontario waters

Commercial shipping waters		Major inland waters	
401	Kingston to Cornwall	481	Lake Simcoe
402	Lake Ontario	482	Lake Nipissing
403	Lake Erie	483	Lake Nipigon
404	Lake St. Clair	484	Lake of the Woods
405	Lake Huron	485	North Channel
406	Georgian Bay		
407	Whitefish Bay		
408	Lake Superior		

**Marine Weather Observations** [reports are broadcast only when available. Reports from platforms such as buoys or ships, are also broadcast when available] - **St. Lawrence River and Great Lakes**

Barrie	Montréal
Lake Simcoe ODAS buoy	Reports from Kingston to Montréal
Lagoon City	Reports from Long Point to Port Colborne
Kingston	Reports from Port Weller to Kingston
Alexandria Bay	Reports from Great Duck Island to Windsor
Massena	Reports from Sarnia to Port Colborne
Superior Shoals	Reports from Duluth (Lake Superior) to Detour Reef (Lake Huron)
Grenadier Islands	Reports from Sault Ste Marie to Sarnia and Georgian Bay

## CANADIAN ICE SERVICE (CIS)

### Ice Forecasts

Ice forecasts are produced where there is marine activity. The intent is to advise users of ice conditions including warnings that are in effect or that could develop during the day, the evening and the following day, in marine areas. Forecasts also provide a point by point description of the ice edge.

The iceberg bulletin is produced once a day. The purpose is to convey routine, general information on the iceberg distribution off the Canadian East Coast. The bulletin provides the estimated limit of all known icebergs and a general description of the number of icebergs for each marine area.

**Table 12: Ice bulletins production schedule**

#### a) Text format:

Forecast name	Issue Time	Time Zone	Marine region
Iceberg bulletin	11:00	EDT/EST	East Coast waters
Ice forecasts	10:00	EDT/EST	Western and Central Arctic
	11:00	EDT/EST	Hudson and Foxe
	11:00	EDT/EST	Eastern and Northern Arctic
	10:00	EDT/EST	Gulf of St. Lawrence
	10:00	EDT/EST	East Newfoundland and Labrador waters
	12:00	EDT/EST	Great Lakes

#### b) NAVTEX format (refer to Part 2 for the MCTS broadcast schedule):

MCTS	Name	Header	Issue Time
St John's VON	Ice NAVTEX	FICN33 CWIS	17:50 (W), 21:50 (S) UTC
Sydney VCO	Ice NAVTEX	FICN34 CWIS	22:10 UTC
Labrador VOK	Ice NAVTEX	FICN35 CWIS	23:20 UTC
Prescott VBR	Ice NAVTEX	FICN38 CWIS	00:40, 12:40 UTC
Thunder Bay VBA	Ice NAVTEX	FICN39 CWIS	06:00, 18:00 UTC
Iqaluit VFF	Ice NAVTEX	N/A	N/A

#### Ice Warning Criteria:

Warning name	Warning criteria
<b>1. Ice Pressure warning</b>	Reported or forecast strong ice pressure.
<b>2. Rapid Closing of Coastal Leads warning</b>	Rapid closing of coastal leads is expected to occur. Leads are corridors of mainly ice-free water surrounded by pack ice.
<b>3. Special Ice warning</b>	When one tenth or more of grey-white ice or older is expected to move into areas when that ice is not normally present, or ...
	For any unusual or significant ice event that may present a hazard to navigation.

**Ice Program**

Ice forecasts are issued for daily, monthly and seasonal time scales.

**Ice Reports or Observations**

Ice reports from ships or aircraft are normally relayed through MCTS centres for broadcast. These reports are all assimilated in the daily ice charts produced by CIS.

**Ice Charts**

Current ice charts are produced daily. The area covered by the chart depends on the time of the season and these charts are normally broadcast at times specified in tables below.

Once a week, CIS produces Regional ice charts. These charts are intended to be used as a planning tool rather than a tactical support tool and are available on the CIS website at <http://www.ice-glaces.ec.gc.ca/> and through commercial communication lines. They are not broadcast through MCTS centres.

**Ice Beacons**

In order to better track the ice drift or to verify ice models, CIS deploys a few ice beacons yearly. While most beacons are only reporting their positions, a few are equipped with barometric pressure sensors.

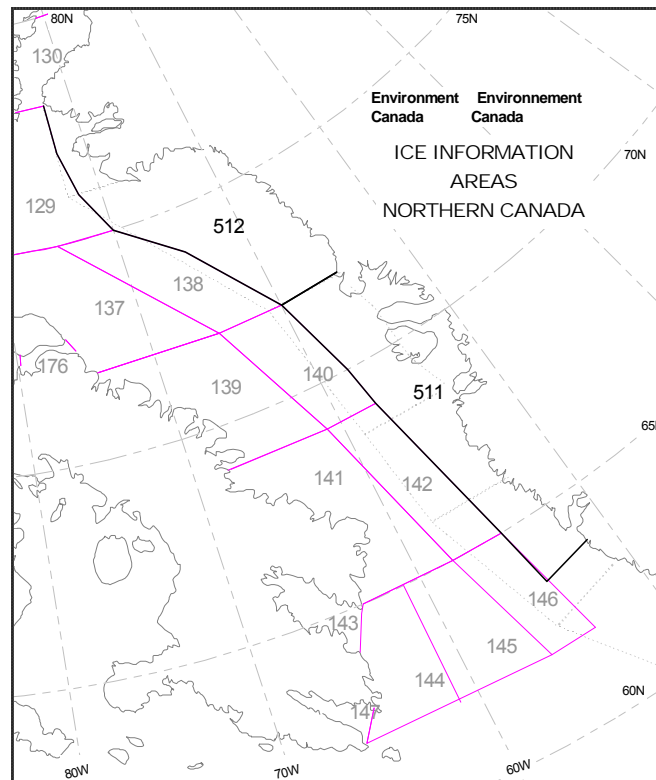
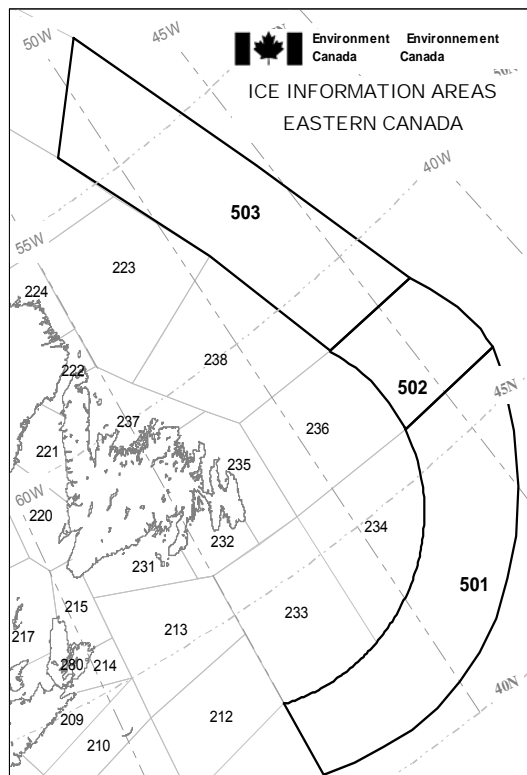
**Weatheradio Canada**

Ice forecasts and warnings are not broadcast via Weatheradio, however, mariners planning operations in waters impacted by hazardous ice conditions may obtain details regarding ice conditions by consulting the CIS Website at <http://www.ice-glaces.ec.gc.ca/>, or by contacting their regional MCTS centre. Detailed ice information may also be obtained through consultation with an Environment Canada meteorologist using the “Weather One-on-One” 1-900 service at 1-900-565-5555. For cell phone users and credit card billing call 1-888-292-2222. User fees apply.

## Ice areas

Areas for which ice forecasts apply are identical to the marine forecasts areas. In addition to these, ice forecasts will cover Lake Michigan, and may cover 3 areas along the East Coast (501 to 503).

- 501 Tail of the Grand Banks
- 502 Flemish
- 503 Southeast Labrador Sea
- 541 Lake Michigan





## Ice charts

The following list describes ice charts produced to support marine activities which are available for broadcast. All **available** charts can be transmitted or re-transmitted on request. **MCTS broadcast times** are found in Part 2.

Ice Chart	Broadcast site	Season
Iceberg limit	MCTS Sydney	Year round
Gulf of St. Lawrence	MCTS Sydney	Winter
East or Southeast Newfoundland Waters	MCTS Sydney	Winter
Labrador Coast	MCTS Iqaluit	Summer
Hudson Strait	MCTS Iqaluit	Summer
Northern Hudson Bay	MCTS Iqaluit	Summer
Southern Hudson Bay	MCTS Iqaluit	Summer
Foxe Basin	MCTS Iqaluit	Summer
Davis Strait	MCTS Iqaluit	Summer
Baffin Bay	MCTS Iqaluit (Resolute)	Summer
Approaches to Resolute	MCTS Iqaluit (Resolute)	Summer
Queen Maud	MCTS Iqaluit (Resolute) MCTS Iqaluit (Iqaluit)	Summer
Amundsen Gulf	MCTS Iqaluit (Iqaluit)	Summer
Alaskan Coast	MCTS Iqaluit (Iqaluit)	Summer
Eureka	MCTS Iqaluit (Resolute)	On request
Parry Channel	MCTS Iqaluit (Resolute)	On request
M'Clure Strait	MCTS Iqaluit (Iqaluit)	On request
Resolute - Byam	MCTS Iqaluit (Resolute)	On request
Bering Strait	MCTS Iqaluit (Iqaluit)	On request
Chukchi	MCTS Iqaluit (Iqaluit)	On request
Nunivak	MCTS Iqaluit (Iqaluit)	On request
Canada Basin	MCTS Iqaluit (Iqaluit)	On request
Alert	MCTS Iqaluit (Iqaluit)	On request
Nome	MCTS Iqaluit (Inuvik)	On request
Arctic Ocean	MCTS Iqaluit (Iqaluit)	On request
North Pole	MCTS Iqaluit (Iqaluit)	On request

**Note: On request** - Ice charts for Canadian Waters available upon request to NORDREG with at least 5 days notice.

For correct reception of this broadcast on WMO standard facsimile recorders requiring 2300 Hz for White and 1500 Hz for Black, 1900 Hz centre frequency, radio receivers should be tuned in the **UPPER SIDEBAND MODE** or **USB**: add **1.9** to the indicated USB frequencies for FSK frequencies.

**METOC Halifax (CFH): The Canadian Forces Fleet MetOc Broadcast service (radioteletype and radiofacsimile) was placed in abeyance effective September 2, 2010. The Canadian Forces Fleet MetOc Broadcast may be reinstated and ceased without warning as necessitated by military operational requirements. When notified, MCTS will issue a Notice to Shipping concerning reinstatement or cessation of this service.** Broadcasts intended for North Atlantic waters North of 35N and West of 35W. Radiofacsimile transmission commences with a 30 second break followed by a 30 second signal.

Name	Call Sign	Modulation	Index of Cooperation	Power	Frequencies (kHz)	Drum speed
MCTS Iqaluit	<b>VFF</b>	J3C (FM)	576	1 KW	3251.1, 7708.1 ( <b>USB</b> )	120 RPM
MCTS Iqaluit	<b>VFA</b>	J3C (FM)	576	1 KW	4290.1, 8454.1 ( <b>USB</b> )	120 RPM
METOC Halifax	<b>CFH</b>	J3C (FM)	576	6 KW	4271, 6496.4, 10536, 13510	120 RPM
METOC Halifax	<b>CFH</b>	J3C (FM)	576	10 KW	122.5	
MCTS Sydney	<b>VCO</b>	J3C (FM)	576	5 KW	4416, 6915.1	120 RPM

### Facsimile Broadcast

Upon authorized request from Canadian Coast Guard, C-GCFR can transmit observed conditions via satellite fax. Vessels must make a request through the Canadian Coast Guard to receive it.