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Spectrum Management

Radiocommunication Information Circular

# **Technical Requirements for the Operation of Mobile Stations in the Maritime Service**

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Comments and suggestions on this document may be directed to the following address:

Industry Canada  
Radiocommunications and  
Broadcasting Regulatory Branch  
300 Slater Street  
Ottawa, Ontario  
K1A 0C8

Attention: DOSP

via e-mail: [spectrum\\_pubs@ic.gc.ca](mailto:spectrum_pubs@ic.gc.ca)

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## **1. Scope**

These are the technical requirements for the operation of mobile stations in the maritime service.

## **2. Definition**

For the purpose of these requirements,

“ship station” means a mobile station, including a hand-held radio, that is installed or operated on board a ship or vessel; and

“coast station” means a fixed station that operates in the maritime service.

## **3. Use of Approved Radio Apparatus**

The operator of a ship station shall operate radio apparatus that meets applicable standards.

## **4. Identification**

The operator of a ship station shall identify the station using:

(a) the call sign assigned by Industry Canada on the radio station licence; or

(b) the name of the ship.

## **5. Receive Frequencies Allocated to the Maritime Service**

The operator of a ship station shall operate radionavigation apparatus on those radio frequencies within the frequency bands set out in Column I of Schedule I.

## **6. Frequency Bands for Communications with Coast Stations and Other Ship Stations in the Maritime Service**

### **6.1 Frequencies of Operation**

The operator of a ship station shall operate on those radio frequencies within the frequency bands set out in Column I of Schedule II for ship-to-shore and ship-to-ship communications with authorized coast stations.

## 6.2 Frequency Usage

The operator of a ship station shall operate the radio apparatus in accordance with the usage set out in Column II of Schedule II for the frequency band set out in Column I for that corresponding item.

## 6.3 Frequency Restrictions

6.3.1 The operator of a ship station shall operate the radio apparatus in accordance with the restrictions set out in Column III of Schedule II for the frequency band set out in Column I for that corresponding item.

6.3.2 For the purpose of complying with the applicable restrictions in paragraph 6.3.1,

- (a) “Primary” means that a station operating in the maritime service can claim protection from harmful interference from a station performing a secondary service in that band.
- (b) “Secondary” means that a station operating in the maritime service shall not:
  - (i) cause harmful interference to a station performing a primary or co-primary service; or
  - (ii) claim protection from a station performing a primary or co-primary service.
- (c) “Co-primary” means that a station operating in the maritime service can claim protection from harmful interference from a station performing a secondary service in that band, and shall not cause harmful interference to a station performing another co-primary service.

## 6.4 Radio Apparatus Power Limitations in the Maritime Service

Subject to section 7.2, the operator of a ship station operating with the frequency band set out in Column I of Schedule VI shall restrict the power output to that set out in Column II of that item.

## **7. Designated Frequencies, Maximum Power Output and Usage for the MF and HF Allocations for Mobile Stations in the Maritime Service**

### **7.1 Assigned Frequencies and Usage for the MF and HF Allocations for Mobile Stations in the Maritime Service**

The operator of a ship station shall operate the radio apparatus only on the designated radio frequencies set out in Column I of Schedule III.

### **7.2 Radio Apparatus Power Limitations in the Maritime Service for Discrete MF and HF Frequencies**

The operator of a ship station operating on a frequency in Column I of an item in Schedule VII shall restrict the power output to that set out in Column II of that item.

## **8. Frequencies, Nature of Service, Types of Traffic, Areas of Operation with Restrictions for the VHF Band in the Maritime Service**

### **8.1 International Channel Designators and Frequencies**

The operator of a ship station operating on an International Channel Designator in Column I of an item in Schedule IV shall operate only on the Transmit and Receive Frequencies of that item in Column II.

### **8.2 Restrictions**

For each International Channel Designator, the operator of the ship station shall operate in accordance with:

- (a) the nature of service identified by the placement of an "X" in Column III;
- (b) the type of traffic (ship movement or public correspondence) identified by an "X" in Column IV;
- (c) the area of operation in Column V; and
- (d) the restrictions noted in Column VI.

### **8.3 Power Restrictions**

The operator of a ship station shall limit the power output to 25 watts for radio apparatus operating on the radio frequencies set out in Schedule IV and shall reduce its power to one watt in accordance with the provisions of the *VHF Radiotelephone Practices and Procedures Regulations* made pursuant to the *Canada Shipping Act*.

## **9. Ultra High Frequency Allocations for Operations on Board a Ship Station**

### **9.1 Frequencies of Operation**

The operator of a ship station shall operate only on those radio frequencies within the frequency bands set out in Column I of Schedule V.

### **9.2 Power Restrictions**

The operator of a ship station shall limit the power output to five watts for radio apparatus operating on the radio frequencies set out in Schedule V.

### **9.3 Operating Restrictions**

The operator of the ship station operating on the radio frequencies set out in Schedule V shall operate on a non-interference and non-protection basis with other fixed or mobile stations in the land mobile service.

**Schedule I**  
(Section 5)

Receive Frequencies Allocated to the Maritime Service

<b>Item</b>	<b>Column I Frequency Band (MHz)</b>	<b>Column II Usage</b>	<b>Column III Restrictions</b>
1	.009 - .014	OMEGA	NONE
2	.014 - .01995	COMMUNICATIONS (Narrow band modes)	NONE
3	.02005 - .070	COMMUNICATIONS (Narrow band modes)	NONE
4	.070 - .090	COMMUNICATIONS (Narrow band modes)	NONE
5	.090 - .110	LORAN	NONE
6	.110 - .130	COMMUNICATIONS	NONE
7	.130 - .160	COMMUNICATIONS	NONE
8	.285 - .315	Automatic Direction Finding and Digital Global Positioning System	NONE
9	.315 - .325	Automatic Direction Finding and Digital Global Positioning System	NONE
10	.325 - .335	Automatic Direction Finding	NONE
11	.405 - .415	RADIO DIRECTION FINDING	NONE



**Schedule II**  
(Section 6)

Frequency Bands for Communications with Coast Stations and Other Ship Stations in the Maritime Service

<b>Item</b>	<b>Column I Frequency Band (MHz)</b>	<b>Column II Usage</b>	<b>Column III Restrictions</b>
1	.415 - .495	COMMUNICATIONS (Radio Telegraphy only) (Narrow Band Direct Printing on .490 MHz receive only)	PRIMARY
2	.495 - .505	COMMUNICATIONS Distress & Calling (Radio Telegraphy only)	PRIMARY
3	.505 - .510	COMMUNICATIONS (Radio Telegraphy only)	PRIMARY
4	.510 - .525	NAVTEX RECEIVERS .518 MHz	CO-PRIMARY WITH AERONAUTICAL RADIONAVIGATION
5	2.000 - 2.065	COMMUNICATIONS	CO-PRIMARY WITH FIXED
6	2.065 - 2.107	COMMUNICATIONS	PRIMARY
7	2.107 - 2.170	COMMUNICATIONS	CO-PRIMARY WITH FIXED
8	2.1700 - 2.1735	COMMUNICATIONS	PRIMARY
9	2.1735 - 2.1905	COMMUNICATIONS Distress and Calling	PRIMARY
10	2.1905 - 2.1940	COMMUNICATIONS	PRIMARY
11	2.194 - 2.300	COMMUNICATIONS	CO-PRIMARY WITH FIXED
12	2.300 - 2.495	COMMUNICATIONS	CO-PRIMARY WITH FIXED
13	2.505 - 2.850	COMMUNICATIONS	CO-PRIMARY WITH FIXED
14	4.000 - 4.063	COMMUNICATIONS	CO-PRIMARY WITH FIXED
15	4.063 -4.438	COMMUNICATIONS	PRIMARY
16	5.73 - 5.90	COMMUNICATIONS	CO-PRIMARY WITH FIXED
17	6.200 - 6.525	COMMUNICATIONS	PRIMARY
18	8.100 - 8.195	COMMUNICATIONS	CO-PRIMARY WITH FIXED
19	8.195 - 8.815	COMMUNICATIONS	PRIMARY
20	12.230 - 13.200	COMMUNICATIONS	PRIMARY

<b>Item</b>	<b>Column I Frequency Band (MHz)</b>	<b>Column II Usage</b>	<b>Column III Restrictions</b>
21	16.36 - 17.41	COMMUNICATIONS	PRIMARY
22	18.78 - 18.90	COMMUNICATIONS	PRIMARY
23	19.68 - 19.80	COMMUNICATIONS	PRIMARY
24	22.000 - 22.855	COMMUNICATIONS	PRIMARY
25	25.07 - 25.21	COMMUNICATIONS	PRIMARY
26	26.100 - 26.175	COMMUNICATIONS	PRIMARY
27	216 - 220	COMMUNICATIONS	CO-PRIMARY WITH LAND MOBILE AND FIXED
28	2850 - 2900	MARINE RADAR - SHORE BASED RADAR ONLY	MARITIME RADIONAVIGATION CO-PRIMARY WITH AERONAUTICAL RADIONAVIGATION secondary radiolocation
29	2900 - 3100	MARINE RADAR	PRIMARY secondary radiolocation
30	5470 - 5650	MARINE RADAR AND SHIPBOARD INTERROGATOR TRANSPONDER	PRIMARY secondary radiolocation
31	8850 - 9000	MARINE RADAR - SHORE BASED RADAR ONLY	MARITIME RADIONAVIGATION CO-PRIMARY WITH RADIOLOCATION
32	9200 - 9300	MARINE RADAR & SEARCH AND RESCUE TRANSPONDERS	MARITIME RADIONAVIGATION CO-PRIMARY WITH RADIOLOCATION
33	9300 - 9500	SEARCH & RESCUE TRANS- PONDERS RADAR	PRIMARY secondary radiolocation

**Schedule III**  
(Section 7.1)

Assigned Frequencies and Usage for the  
MF and HF Allocations for Mobile Stations in the Maritime Service

<b>Item</b>	<b>Column I Assigned Frequency (kHz)</b>	<b>Column II Usage</b>
1	2 004.4	Intership East Coast only
2	2 041.4	Intership between pleasure vessels Pacific Coast only
3	2 066.4	Private ship/shore communications in coastal areas of Canada and the St. Lawrence River as far west as Montreal
4	2 080.4	Private ship/shore communications in coastal areas of Canada and the St. Lawrence River as far west as Montreal
5	2 083.9	Intership communications in all Maritime areas of Canada including the Great Lakes
6	2 094.4	Private ship/shore communications in coastal areas of Canada and the St. Lawrence River as far west as Montreal
7	2 101.4	Government use only
8	2 104.9	Government use only
9	2 174.5	International distress frequency, narrow band direct printing telegraphy
10	2 182	Distress and Calling
11	2 187.5	International Digital Selective Calling (DSC)
12	2 238.4	Intership between non-fishing commercial vessels on the East Coast only
13	2 314.4	Intership between fishing vessels on the Pacific Coast only
14	2 367.4	Intership for non-fishing commercial and pleasure vessels on the Pacific Coast and Intership on the Beaufort Sea and Mackenzie Waterways
15	2 639.4	Intership
16	2 739.4	Intership
17	4 126.4	Ship/shore calling only for distress, safety, calling and reply

Item	Column I Assigned Frequency (kHz)	Column II Usage
18	4 147.4	Ship/shore and intership communications
19	4 150.4	Ship/shore and intership communications
20	4177.5	International distress frequency, narrow band direct printing telegraphy
21	4207.5	International Digital Selective Calling (DSC)
22	4 418.4	Call and reply
23	6 216.4	Ship/shore calling only for distress, safety, calling and reply
24	6 225.4	Ship/shore and intership communications
25	6 228.4	Ship/shore and intership communications
26	6 231.4	Ship/shore and intership communications
27	6 268	International distress frequency, narrow band direct printing telegraphy
28	6 312	International Digital Selective Calling (DSC)
29	6 517.4	Call and reply. Daytime use only.
30	8 256.4	Ship/shore calling only for distress, safety, calling and reply
31	8 292.4	Distress and safety calling
32	8 295.4	Ship/shore and intership communications
33	8 298.4	Ship/shore and intership communications
34	8 376.5	International distress frequency, narrow band direct printing telegraphy
35	8 414.5	International Digital Selective Calling (DSC)
36	12 291.4	Ship/shore calling only for distress, safety, calling and reply
37	12 354.4	Ship/shore and intership communications
38	12 357.4	Ship/shore and intership communications
39	12 360.4	Ship/shore and intership communications
40	12 363.4	Ship/shore and intership communications
41	12 366.4	Ship/shore and intership communications

Item	Column I Assigned Frequency (kHz)	Column II Usage
42	12 520	International distress frequency, narrow band direct printing telegraphy
43	12 577	International Digital Selective Calling (DSC)
44	16 421.4	Distress and safety calling
45	16 529.4	Ship/shore and intership communications
46	16 532.4	Ship/shore and intership communications
47	16 535.4	Ship/shore and intership communications
48	16 538.4	Ship/shore and intership communications
49	16 541.4	Ship/shore and intership communications
50	16 544.4	Ship/shore and intership communications
51	16 547.4	Ship/shore and intership communications
52	16 695	International distress frequency, narrow band direct printing telegraphy
53	18 796.4	Distress and safety calling
54	18 826.4	Ship/shore and intership communications
55	18 829.4	Ship/shore and intership communications
56	18 832.4	Ship/shore and intership communications
57	18 835.4	Ship/shore and intership communications
58	18 838.4	Ship/shore and intership communications
59	18 841.4	Ship/shore and intership communications
60	18 844.4	Ship/shore and intership communications
61	22 061.4	Distress and safety calling
62	22 160.4	Ship/shore and intership communications
63	22 163.4	Ship/shore and intership communications
64	22 166.4	Ship/shore and intership communications
65	22 169.4	Ship/shore and intership communications

	<b>Column I</b>	<b>Column II</b>
<b>Item</b>	<b>Assigned Frequency (kHz)</b>	<b>Usage</b>
66	22 172.4	Ship/shore and intership communications
67	22 175.4	Ship/shore and intership communications
68	22 178.4	Ship/shore and intership communications
69	25 098.4	Distress and safety calling
70	25 101.4	Ship/shore and intership communications
71	25 104.4	Ship/shore and intership communications
72	25 107.4	Ship/shore and intership communications
73	25 110.4	Ship/shore and intership communications
74	25 113.4	Ship/shore and intership communications
75	25 116.4	Ship/shore and intership communications
76	25 119.4	Ship/shore and intership communications

## Schedule IV (Section 8)

Frequencies, Nature of Service, Type of Traffic, Area of Operation with Restrictions for the VHF Band in the Maritime Service

Item	Column I Inter'l Channel Designators	Column II Frequencies (MHz)		Column III Nature of Service				Column IV Type of Traffic		Column V Area of Operation	Column VI Restrictions (Notes and Remarks)
		Transmit	Receive	Intership	Ship/ Shore	Com- mercial	Non- Com- mercial	Safety	Ship Movement		
1	01	156.050	160.650						X	PC	
2	02	156.100	160.700						X	PC	
3	03	156.150	160.750						X	PC	
4	04A	156.200	156.200	X	X			X		PC	Canadian Coast Guard search and rescue.
5	04A	156.200	156.200	X	X	X				EC	Commercial fishing only.
6	05A	156.250	156.250						X		
7	06	156.300	-----	X		X		X		All areas	May be used for search and rescue communications between ships and aircraft.
8	07A	156.350	156.350	X	X	X				All areas	
9	08	156.400	-----	X		X		X		WC, EC	Also assigned for operations in the Lake Winnipeg area.
10	09	156.450	156.450	X	X	X		X		AC	May be used to communicate with aircraft and helicopters in predominantly maritime support operations.
11	10	156.500	156.500	X	X	X		X		AC, GL	May also be used for communications with aircraft engaged in coordinated search and rescue and antipollution operations.
12	11	156.550	156.550	X	X	X		X		PC, AC, GL	Also used for pilotage purposes.
13	12	156.600	156.600	X	X	X		X		WC, AC, GL	Port operations and pilot information and messages.
14	13	156.650	156.650	X		X		X		All Areas	Exclusively for bridge-to-bridge navigational traffic.

EC (East Coast) : includes NL, AC, GL and Eastern Arctic areas  
 NL : Newfoundland and Labrador  
 AC : Atlantic Coast, Gulf and St. Lawrence River up to and including Montreal  
 GL : Great Lakes (including St. Lawrence above Montreal)

WC (West Coast) : Pacific Coast, Western Arctic and Athabasca-Mackenzie Watershed areas  
 PC : Pacific Coast  
 All areas : includes East and West Coast areas

## Schedule IV (Section 8)

### Frequencies, Nature of Service, Type of Traffic, Area of Operation with Restrictions for the VHF Band in the Maritime Service

Item	Column I Inter'l Channel Designators	Column II Frequencies (MHz)		Column III Nature of Service				Column IV Type of Traffic			Column V Area of Operation	Column VI Restrictions (Notes and Remarks)
		Transmit	Receive	Intership	Ship/ Shore	Com- mercial	Non- Com- mercial	Safety	Ship Movement	Public Corres- pondence		
15	14	156.700	156.700	X	X	X	X		X		AC, GL	Port operations and pilot information and messages.
16	15	156.750	156.750	X	X	X	X		X		All areas	All operations limited to 1-watt maximum power. May also be used for on-board communications.
17	16	156.800	156.800	International Distress, Safety and Calling.							All areas	
18	17	156.850	156.850	X	X	X	X		X		All areas	All operations limited to 1-watt maximum power. May also be used for on-board communications.
19	18A	156.900	156.900	X	X	X	X				All areas	Towing on the Pacific Coast.
20	19A	156.950	156.950	X	X	X	X				All areas except PC	Canadian Coast Guard only.
21	19A	156.950	156.950	X	X	X	X				PC	Various Government departments.
22	20	157.000	161.600	X	X	X	X	X	X		All areas	Port operations only with 1-watt maximum power.
23	21A	157.050	157.050	X	X	X	X				All areas	Canadian Coast Guard only.
24	21B	-----	161.650						X		All areas	Continuous Marine Broadcast (CMB) service.
25	22A	157.100	157.100	X	X	X	X	X			All areas	For communications between Canadian Coast Guard and non-Canadian Coast Guard stations only.
26	23	157.150	161.750	X	X	X	X			X	PC	Also in the inland waters of British Columbia and the Yukon.
27	24	157.200	161.800	X	X	X	X		X		All areas	
28	25	157.250	161.850	X	X	X	X		X		PC	Also assigned for operations in the Lake Winnipeg area.

EC (East Coast) : includes NL, AC, GL and Eastern Arctic areas  
 NL : Newfoundland and Labrador  
 AC : Atlantic Coast, Gulf and St. Lawrence River up to and including Montreal  
 GL : Great Lakes (including St. Lawrence above Montreal)

WC (West Coast) : Pacific Coast, Western Arctic and Athabasca-Mackenzie Watershed areas  
 PC : Pacific Coast  
 All areas : includes East and West Coast areas



## Schedule IV (Section 8)

### Frequencies, Nature of Service, Type of Traffic, Area of Operation with Restrictions for the VHF Band in the Maritime Service

Item	Column I Inter'l Channel Designators	Column II Frequencies (MHz)		Column III Nature of Service				Column IV Type of Traffic		Column V Area of Operation	Column VI Restrictions (Notes and Remarks)
		Transmit	Receive	Intership	Ship/ Shore	Com- mercial	Non- Com- mercial	Safety	Ship Movement		
29	25B	-----	161.850							AC	Continuous Marine Broadcast (CMB) service.
30	26	157.300	161.900		X				X	All areas	
31	27	157.350	161.950		X				X	AC, GL, PC	
32	28	157.400	162.000		X				X	PC	
33	28B	-----	162.000							AC	Continuous Marine Broadcast (CMB) service.
34	60	156.025	160.625		X				X	PC	
35	61A	156.075	156.075	X	X					PC	Canadian Coast Guard only.
36	61A	156.075	156.075	X	X	X				EC	Commercial fishing only.
37	62A	156.125	156.125	X	X					PC	Canadian Coast Guard only.
38	62A	156.125	156.125	X	X	X				EC	Commercial fishing only.
39	64	156.225	160.825		X				X	PC	
40	64A	156.225	156.225	X	X	X				EC	Commercial fishing only.
41	65A	156.275	156.275	X	X	X	X				Search and rescue and anti-pollution operations on the Great Lakes. Towing on the Pacific Coast. Port operations only in the St. Lawrence River areas with 1-watt maximum power. Pleasure craft in the inland waters of Alberta - Saskatchewan and Manitoba (excluding Lake Winnipeg and the Red River).

EC (East Coast) : includes NL, AC, GL and Eastern Arctic areas  
 NL : Newfoundland and Labrador  
 AC : Atlantic Coast, Gulf and St. Lawrence River up to and including Montreal  
 GL : Great Lakes (including St. Lawrence above Montreal)

WC (West Coast) : Pacific Coast, Western Arctic and Athabasca-Mackenzie Watershed areas  
 PC : Pacific Coast  
 All areas : includes East and West Coast areas

## Schedule IV (Section 8)

### Frequencies, Nature of Service, Type of Traffic, Area of Operation with Restrictions for the VHF Band in the Maritime Service

Item	Column I Inter'l Channel Designators	Column II Frequencies (MHz)		Column III Nature of Service				Column IV Type of Traffic		Column V Area of Operation	Column VI Restrictions (Notes and Remarks)
		Transmit	Receive	Intership	Ship/ Shore	Com- mercial	Non- Com- mercial	Safety	Ship Movement		
42	66A	156.325	156.325	X	X	X	X	X	X		Port operations only in the St. Lawrence River/Great Lakes areas with 1-watt maximum power.
43	67	156.375	156.375	X	X	X				EC	Commercial fishing only.
44	67	156.375	156.375	X	X	X	X	X		All areas except EC	May also be used for communications with aircraft engaged in coordinated search and rescue and anti-pollution operations.
45	68	156.425	156.425	X	X		X			All areas	For marinas and yacht clubs.
46	69	156.475	156.475	X	X	X	X			All areas except EC	
47	69	156.475	156.475	X	X	X	X			EC	Commercial fishing only.
48	70	156.525	156.525	Digital Selective Calling for Distress, Safety and Calling.							
49	71	156.575	156.575	X	X	X	X	X	X	PC	
50	71	156.575	156.575	X	X		X	X			For marinas and yacht clubs on the East Coast and on Lake Winnipeg.
51	72	156.625	-----	X		X	X			EC, PC	May be used to communicate with aircraft and helicopters in predominantly maritime support operations.
52	73	156.675	156.675	X	X	X	X			EC	Commercial fishing only.
53	73	156.675	156.675	X	X	X	X	X		All areas except EC	May also be used for communications with aircraft engaged in coordinated search and rescue and anti-pollution operations.

EC (East Coast) : includes NL, AC, GL and Eastern Arctic areas  
 NL : Newfoundland and Labrador  
 AC : Atlantic Coast, Gulf and St. Lawrence River up to and including Montreal  
 GL : Great Lakes (including St. Lawrence above Montreal)

WC (West Coast) : Pacific Coast, Western Arctic and Athabasca-Mackenzie Watershed areas  
 PC : Pacific Coast  
 All areas : includes East and West Coast areas

## Schedule IV (Section 8)

Frequencies, Nature of Service, Type of Traffic, Area of Operation with Restrictions for the VHF Band in the Maritime Service

Item	Column I Inter'l Channel Designators	Column II Frequencies (MHz)		Column III Nature of Service				Column IV Type of Traffic		Column V Area of Operation	Column VI Restrictions (Notes and Remarks)
		Transmit	Receive	Intership	Ship/ Shore	Com- mercial	Non- Com- mercial	Safety	Ship Movement		
54	74	156.725	156.725	X	X	X	X		X	EC, PC	
55	75	Not available - Guard band for Channel 16									
56	76	Not available - Guard band for Channel 16									
57	77	156.875	156.875	X	X			X	X		Pilgrage on Pacific Coast. Port operations only in the St. Lawrence River/Great Lakes areas with 1-watt maximum power.
58	78A	156.925	156.925	X	X	X				EC, PC	
59	79A	156.975	156.975	X	X	X				EC, PC	
60	80A	157.025	157.025	X	X	X				EC, PC	
61	81A	157.075	157.075	X	X						Canadian Coast Guard use only in the St. Lawrence River/Great Lakes areas.
62	81A	157.075	157.075	X	X			X		PC	Canadian Coast Guard antipollution.
63	82A	157.125	157.125	X	X			X		PC	Canadian Coast Guard use only.
64	82A	157.125	157.125	X	X						Canadian Coast Guard use only in the St. Lawrence River/Great Lakes areas.
65	83	157.175	161.775		X				X	PC	Canadian Coast Guard use only.
66	83A	157.175	157.175	X	X					EC	Canadian Coast Guard and other Government agencies.
67	83B	-----	161.775					X		AC, GL	Continuous Marine Broadcast (CMB) Service.

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 All areas : includes East and West Coast areas

## Schedule IV (Section 8)

Frequencies, Nature of Service, Type of Traffic, Area of Operation with Restrictions for the VHF Band in the Maritime Service

Item	Column I Inter'l Channel Designators	Column II Frequencies (MHz)		Column III Nature of Service				Column IV Type of Traffic		Column V Area of Operation	Column VI Restrictions (Notes and Remarks)
		Transmit	Receive	Intership	Ship/ Shore	Com- mercial	Non- Com- mercial	Safety	Ship Movement		
68	84	157.225	161.825		X				X	PC	
69	85	157.275	161.875		X				X	AC, GL, NL	
70	86	157.325	161.925		X				X	PC	
71	87	157.375	161.975		X				X	AC, GL, NL	
72	88	157.425	162.025		X				X	AC, GL, NL	
73	WX1	-----	162.550						X	EC, PC	Continuous Marine Broadcast (CMB) Service.
74	WX2	-----	162.400						X	EC, PC	Continuous Marine Broadcast (CMB) Service.
75	WX3	-----	162.475						X	EC, PC	Continuous Marine Broadcast (CMB) Service.

EC (East Coast) : includes NL, AC, GL and Eastern Arctic areas  
 NL : Newfoundland and Labrador  
 AC : Atlantic Coast, Gulf and St. Lawrence River up to and including Montreal  
 GL : Great Lakes (including St. Lawrence above Montreal)

WC (West Coast) : Pacific Coast, Western Arctic and Athabasca-Mackenzie Watershed areas  
 PC : Pacific Coast  
 All areas : includes East and West Coast areas

## Schedule V

(Section 9)

### Ultra High Frequency Allocations for Operations on Board a Ship Station

Item	Column I Frequency (MHz)	Column II Usage
1	457.525	COMMUNICATIONS ON BOARD SHIP
2	457.550	COMMUNICATIONS ON BOARD SHIP
3	457.575	COMMUNICATIONS ON BOARD SHIP
4	457.600	COMMUNICATIONS ON BOARD SHIP
5	467.525	COMMUNICATIONS ON BOARD SHIP
6	467.550	COMMUNICATIONS ON BOARD SHIP
7	467.575	COMMUNICATIONS ON BOARD SHIP
8	467.750	COMMUNICATIONS ON BOARD SHIP
9	467.775	COMMUNICATIONS ON BOARD SHIP
10	467.800	COMMUNICATIONS ON BOARD SHIP
11	467.825	COMMUNICATIONS ON BOARD SHIP

## Schedule VI

(Section 6.4)

### Radio Apparatus Power Limitations in the Maritime Service

Item	Column I Frequency Bands (MHz)	Column II Power Limitations
1	2.065 - 2.850	1.0 kilowatts (Peak Envelope Power)
2	4.000 - 4.438	1.5 kilowatts (Peak Envelope Power)
3	6.200 - 6.525	1.5 kilowatts (Peak Envelope Power)
4	8.100 - 8.815	1.5 kilowatts (Peak Envelope Power)
5	12.230 - 13.200	1.5 kilowatts (Peak Envelope Power)
6	16.360 - 17.410	1.5 kilowatts (Peak Envelope Power)
7	18.780 - 19.900	1.5 kilowatts (Peak Envelope Power)
8	22.000 - 22.855	1.5 kilowatts (Peak Envelope Power)
9	25.070 - 26.275	1.5 kilowatts (Peak Envelope Power)

**Schedule VII**  
*(Section 7.2)*

Radio Apparatus Power Limitations in the Maritime Service for  
Discrete MF and HF Frequencies

<b>Item</b>	<b>Column I Assigned Frequency (kHz)</b>	<b>Column II Maximum Power PEP Output</b>
1	2 066.4	150 watts
2	2 080.4	150 watts
3	2 083.4	150 watts
4	2 094.4	150 watts
5	4 418.4	1 kW
6	6 216.4	1 kW
7	6 517.4	1 kW