GKB PORTSHEAD, UK	+ 4 MHz	+ 4 MHz	4274 Khz
	+ 8 MHz	+ 8 MHz	8559.5 Khz
	+ 12 MHz	+ 12 MHz	12835.4 Khz
	+ 16 MHz	+ 16 MHz	17113 Khz
	+ 22 MHz	+ 22 MHz	22448.7 Khz

SSB VOICE FREQUENCIES
(Carrier frequency shown)

GKT20 PORTISHEAD

	4092 Khz	4092 Khz	4384 Khz
GKU46	8240 Khz	8240 Khz	8764 Khz
GKV54	12299 Khz	12299 Khz	13146 Khz
GKT62	16363 Khz	16363 Khz	17245 Khz
GKT76	22015 Khz	22015 Khz	22711 Khz

NOTE: RADIOTELEX FREQUENCIES ARE CONTROLLED FROM PORTISHEAD RADIO - SELCALL 3220 USE AMV+ FOR AUTO ACCEPTANCE/DELIVERY

GKE2 PORTSHEAD

	4173 Khz	4173 Khz	4211 Khz
GKE3	6263.5	6263.5	6315
GKE4	8377	8377	8417
GKE5	12477.5	12477.5	12580
GKE6	16684	16684	16807.5
GKE7	22285	16684	16807.5
GLD3 LAND'S END	2497.8	2497.8	2696.7
GHD2 HEBRIDES	2144.4	2144.4	3607.8
GKR1 WICK	2496.8	2496.8	1672
GKR2 WICK	2512	2512	1923.7
GKZ1 HUMBER	2496.3	2496.3	3607.3
GNK1 NORWICK	2494.7	2494.7	2832.7
GNK2 NORWICK	2574	2574	3542.7
GND1 STONEHAVEN	2000.7	2000.7	3615.5
GND4 STONEHAVEN	2515	2515	1734.7
GCC1 GULLERCOATS	2497.3	2497.3	3608.3
VOJ STEPHENVILLE, NF			416 Khz
	2182 Khz	2182 Khz	2514 Khz
	2582 Khz		
	VHF CH. 16	VHF CH. 16	VHF CH. 24, 26

WCC NO. CHATHAM, MA.

RADIOTELEGRAPHY (CHANNELS 1, 2, 3, 4)

500 Khz	500 Khz	436 Khz
4 MHz	4 MHz	4331 Khz
6 MHz	6 MHz	6376 Khz
8 MHz	8 MHz	8586, 8630 Khz
12 MHz	12 MHz	12847.5/12925.5 Khz

NOTE: * INDICATES ON REQUEST (O/R)

16 MHz		16933.5, 16972 Khz
22 MHz	22 MHz	22518 Khz

DIRECT PRINTING RADIOTELETYPE
SELCALL 1092

(ASSIGNED FREQUENCY SHOWN)

4179.0 Khz	4179.0 Khz	4216.5 Khz
6273.0 Khz	6273.0 Khz	6324.0 Khz
8384.0 Khz	8384.0 Khz	8424.0 Khz
8386.5 Khz	8386.5 Khz	8426.5 Khz
12487.0 Khz	12487.0 Khz	12589.5 Khz
12495.5 Khz	12495.5 Khz	12598.0 Khz
16693.5 Khz	16693.5 Khz	16817.0 Khz
16702.0 Khz	16702.0 Khz	16825.0 Khz
22294.5 Khz	22294.5 Khz	22386.5 Khz

WLO RADIO BAND	**SSB FREQUENCIES ITU NUMBER**	**QSC MIO 003 660 003 TRANSMIT**	**RECEIVE**
2 MHz		2430.0	2572.0
4 MHz	405	4077.0	4369.0
	414	4104.0	4396.0
	419	4119.0	4411.0
6 MHz	607	6218.0	6519.0
8 MHz	824	8264.0	8788.0
	830	8282.0	8806.0
	836	8113.0	8713.0
12 MHz	1212	12263.0	13110.0
	1233	12326.0	13173.0
	1235	12332.0	13179.0
16 MHz	1641	16480.0	17362.0
	1643	16486.0	17368.0

WLO RADIO BAND	SSB FREQUENCIES ITU NUMBER	OSC MIO 003 660 003 TRANSMIT	RECEIVE
18 MHz	18[illegible]7	18798.0	19773.0
22 MHz	22[illegible]7	22108.0	22804.0
	22[illegible]2	22123.0	22819.0
	22[illegible]6	22135.0	22831.0
25 MHz	25[illegible]3	25076.0	26151.0

SSB TRAFFIC LIST AND WEATHER BROADCAST CHANNELS
TRAFFIC HH +00 ON THE HOUR
WEATHER: 0000 0600 1200 1800 CS

405 836	12[illegible]5	1647	2246

NOTE: * INDICATES ON REQUEST (O[illegible]R)

WLO RADIO SHIP BAND	RADIOTELEGRAPH FREQUENCIES	(CHANNELS 3, 4, 5, 6) RECEIVE
MF		434.0
		500.0
2 MHz		2055.5
4 MHz		4257.5
6 MHz		6446.5
8 MHz		8445.5
		8473.5
		8658.0
12 MHz		12660.0
		12704.5
		13024.9
16 MHz		16969.0
		17173.0
22 MHz		22686.5
25 MHz		26123.0

RADIOTELEGRAPH TRAFFIC LIST AND BROADCAST FREQUENCIES
HH++00 ON THE HOUR
4343.0 6416.0 8514.0 12[illegible]86.5 17022.5 22487.0 26135.0

WLO RADIO BAND	SHIP TELEX FREQUENCIES ITU	SELCALL 1090 TRANSMIT	RECEIVE
4 MHz	406	4175.0	4213.0
	410	4177.0	4215.0
	415	4179.5	4217.0
	417	4180.5	4218.0
6 MHz	606	6265.5	6317.0
	610	6267.5	6319.0
	615	6270.0	6321.0
	619	6272.0	6323.0
	624	6274.5	6325.5
8 MHz	806	8379.0	8419.0
	810	8381.0	8421.0
	815	8383.5	8423.5
	826	8389.0	8429.0
	829	8390.5	8430.5
	832	8392.0	8432.0
12 MHz	1205	12479.0	12581.5
	1211	12482.0	12584.5
	1215	12484.0	12586.5
	1225	12489.0	12591.5
	1229	12491.0	12593.5
	1234	12493.5	12596.0
	1240	12496.5	12599.0
	1251	12502.0	12604.5
	1254	12503.5	12606.0
	1261	12507.0	12609.5

16 MHz	1605	16685.5	16809.0
	1611	16688.5	16812.0
	1615	16690.5	16814.0
	1625	16695.5	16818.5
	1629	16697.5	16820.5
	1640	16703.0	16826.0
	1644	16705.0	16828.0
	1650	16708.0	16831.0
Note: * Indicates	1654	16710.0	16833.0
on request (O/R)	1651	16713.5	16836.5
18 MHz	1810	18875.0	19685.5
22 MHz		2210	22289/022381.0
	2215	22291.5	22383.5
	2254	22311.0	22403.0
	2256	22312.0	22404.0
	2260	22314.0	22406.0
	2262	22315.0	22407.0
	2272	22320.0	22412.0
	2284	22326.0	22418.0
25 MHz	2510	25177.5	26105.5

June 1 Through November 30 **HH+35 of the hour**

4462.5	6344.0	8534.0	12992.0
16997.6	22688.0	26144.0	

FEC SHIP TELEX TRAFFIC LIST AND BROADCAST FREQUENCIES

	December 1 through May 31	**HH+35 of the Hour**	
4343.0	6416.0	8514.0	12886.5
17022.5	22487.0	26135.0	

WNU SLIDELL, LA., RADIO
MARINE TELEGRAPH SERVICE
(Monitoring ITU Channels 3, 4 & 5)

BAND	**WNU TRANSMITS ON:**
MF/500 kHz	463/478
4 MHz	4294/4310
6 MHz	6389.65
8 MHz	8525/8570/8688
12 MHz	12826.5/12869
16 MHz	17038/17117.6
22 MHz	22575.5/22458

Note:
Ships may contact Palo Alto Radio/KFS and retrieve any messages pending at WNU.
TFC List every hour at minute 55 (H + 55).
Gulf of Mexico/Caribbean Sea Weather Broadcast at 0350, 0950, 1550, 2150 UTC.
Listen for broadcasts on frequencies: 4210, 8570, 12826.5, 17117.6, 22575.5

AUTOMATED MARINE
TELEX SERVICE
(WNU Selcall 1109)

BAND	**ITU Channel**	**SHIP Transmits on**	**WNU Transmits**
4 MHz	401	4172.5	4210.5
6 MHz	627	6281.0	6327.0
8 MHz	819	8385.5	8425.5
12 MHz	1257	12505.0	12607.5
16 MHz	1657	16711.5	16834.5
22 MHz	2219	22293.5	22385.5

Notes:
Ships may contact Palo Alto Radio/KFS and retrieve any messages pending at WNU.
FEC TFC list every hour at minute 55 (H + 55)
Gulf of Mexico/Caribbean Sea Weather Broadcast at 0351, 0951, 1551, 2151 UTC;
North Atlantic Weather Broadcast at 0451, 1051, 1651, 2251 UTC
Broadcasts use all active channels.

PACIFIC AREA

KFS
PALO ALTO, CA

RADIO MARINE TELEGRAPH SERVICE
(Monitoring ITU Channels 3, 4, & 7)

BAND	KFS TRANSMITS ON
MF/500 Khz	476
4 MHz	4274.0
8 MHz	8444.5/8558.4
12 MHz	12695.5/12844.5
16 MHz	17026.0/17184.8
22 MHz	22581.5

Notes:
Ships may contact Slidell Radio/WNU and retrieve any messages pending at KFS.
TFC list every hour at minute 25 (H + 25).
North Atlantic Weather Broadcast at 0450, 1050, 1650, 2250 UTC
Listen for broadcast on frequencies: 8558.4, 12844.5, 17026.0, 22581.0 Khz

AUTOMATED MARINE TELEX SERVICE
KFS Selcall 1094

BAND	ITU CHANNEL	SHIP TRANSMITS	KFS TRANSMITS
4 MHz	403	4173.5	4211.5
6 MHz	603	6264.0	6315.5
8 MHz	803	8377.5	8417.5
12 MHz	1203	12478.0	12580.5
16 MHz	1647	16706.5	16829.5
22 MHz	2203	22285.5	22377.5

Notes
Ships may contact Slidell Radio/WNU and retrieve any messages pending at KFS.
FEC TFC list every hour at minute 25 (H + 25
Pacific High Seas and Offshore Weather Broadcast at 0451, 1051, 1651, 2251UTC.
Broadcasts use all active channels.

KFS Super Station Network using 17 SITOR channels. Coverage includes Atlantic, Pacific and Gulf of Mexico and all adjacent areas. Ships at sea have more choices to send and receive their Telex and E-Mail traffic. The network of stations now covers both the East and West coasts of the United States, the Northern Atlantic Ocean, the entire Pacific Ocean, the Panama Canal, the Caribbean sea, the Gulf of Mexico and the Mid-Atlantic Ocean.
The Super-Station Network was put into effect when KFS World Communications installed remote control equipment and data lines between WNU in New Orleans and its centralized traffic facility in Half Moon Bay, California. This connection, and now a similar one to Newfoundland, allows ships at sea to contact the most convenient station for messages, all of which are stored in a sophisticated computer system in California.
Traffic lists sent by the three stations are identical and include every message on hand. Radio operators can determine if they have traffic waiting by listening to just one such broadcast
Ships can now use any of the following ITU channels to contact the network. In addition, the network offers Marine Telegram (CW) service from California and Louisiana.

ITU Channel	Call Sign	Location	Selcal	Shore Transmit	Ship Transmit
401	WNU	Louisiana	1109	4210.5	4172.5
403	KFS	California	1094	4211.5	4173.5
416	VCT	Newfoundland	1094	4217.5	4180.0
603	KFS	California	1094	6315.5	6264.0
627	WNU	Louisiana	1109	6327.0	6281.0
632	VCT	Newfoundland	1094	6329.5	6283.5
803	KFS	California	1094	8417.5	8377.5
812	VCT	Newfoundland	1094	8422.0	8382.0
819	WNU	Louisiana	1109	8425.5	8385.5
1203	KFS	California	1094	12580.5	12478.0
1219	WNU	Louisiana	1109	12588.5	12486.0
1257	WNU	Louisiana	1109	12607.5	12505.0
1263	VCT	Newfoundland	1094	12610.5	12508.0
1643	VCT	Newfoundland	1094	16827.5	16704.5
1647	KFS	California	1094	16829.5	16706.5
1657	WNU	Louisiana	1109	16384.5	16711.5
2203	KFS	California	1094	22377.5	22285.5

KFS/WNU OFFERS AUTOMATED MARINE TELEX SERVICE.
THE FOLLOWING COMMANDS ARE AVAILABLE:

AMV+	FOR SENDING AMVER MSG TO USCG
AUTOTLX...+	FOR SENDING A MSG WITH CONFIRMATION OF DELIVERY (STA+)
BRK+	CLEAR THE RADIO CONNECTION
DIRTLX...+	FOR DIRECT TELEX CONNECTION
EMAIL...+	FOR SENDING ELECTRONIC MAIL MSG
FAX...+	FOR SENDING A FACSIMILE MESSAGE
FLO+	FOR FILING A FLOWER ORDER
FREQ+	FOR INDICATING SHIPS WATCHKEEPING INFORMATION
HELP+	FOR GENERAL INFORMATION AND STATION DETAILS
INF+	FOR A LIST OF COMMANDS AVAILABLE
MSG+	FOR REQUESTING TRAFFIC
OBS+	FOR SENDING SHIP'S WEATHER REPORTS
OPR+	FOR OPERATOR ASSISTANCE
RTL+	FOR SENDING A RADIOTELEX LETTER
STA+	FOR RECEIVING AN AUTOTLX MSG STATUS REPT
SVC+	FOR SENDING A SERVICE MESSAGE
TGM+	FOR SENDING A RADIOTELEGRAM
TLX+	FOR SENDING A STORE AND FORWARD MESSAGE

NOTES: END MESSAGES WITH "KKKK"
KFS AND WNU ARE ELECTRONICALLY LINKED. VESSELS MAY RETRIEVE ALL TRAFFIC FROM WITHER STATION. KFS/WNU ATOR IS AVAILABLE 24 HOURS A DAY ON THE FOLLOWING ITU CHANNELS:

CHANNNEL	CALL	SHIP TX	SHIP RCV
403	KFS	4173.5	4211.5
603	KFS	66264.0	6315.5
627	WNU	6281.0	6327.0
803	KFS	8377.5	8417.5
819	WNU	8385.5	8425.5
1203	KFS	12478.0	12580.5
1257	WNU	12505.0	12607.5
1647	KFS	16706.5	16829.5
1657	WNU	16711.5	16834.5
2203	KFS	22285.5	22377.5

KFS TFC LIST H+25 WNU TFC LIST H+55

WNU WEATHER BROADCAST SCHEDULE:
GULF/CARIBBEAN/STLANTIC TROPICAL CYCLONE BULLETIN BULLETIN
0221 0521 0821 1121 1421 1721 2021 2321 UTC
GULF/CARIBBEAN OFFSHORE FCST 0351 0951 1551 2151 UTC
NORTH ATLANTIC HIGH SEAS WEATHER 0451 1051 1651 2251 UTC
KFS WEATHER BROADCAST SCHEDULE:
EASTERN/CENTRAL PACIFIC TROPICAL CYCLONE BULLETINS
0221 0521 0821 1121 1421 1721 2021 2321 UTC
PACIFIC HIGH SEAS AND OFFSHORE WEATHER

WNU SLIDELL, LA. RADIO

	MARINE TELEX FREQUENCIES WNU TRANSMIT	MARINE TELEGRAPH FREQUENCIES
REQUIRES	4211.0	
CHANNEL	6315.0 6263.5	
PAIRS	8417.0*	463
	8425.5 8385.5	478
	12580.0	500
	12588.5	WNU31/4294
	12605.0	WNU41/4310
	12607.5 - 12505	WNU32/6495
	12807.5	WNU42/6389.65
	16816.0	WNU33/8525
	16832.0	WNU43/8570*
	16834.5 - 16711.5	WNU53/8688
	22377.5	WNU34/12826.5*
	22385.5	WNU54/12869
	22402.5	WNU44/13011
	22404	WNU35/17199.2
		WNU55/17038
		WNU 45/17117.6*
		WNU36/22681
		WNU48/22458

KPH SAN FRANCISCO, CA

(Channels 3, 4, 7, 8, 9, 10)		
22 MHz	22 MHz	22477.5/22557 Khz
DIRECT PRINTING RADIOTELETYPE		
SELCALL 1091		
(Assigned frequency shown)		
4178.5 Khz	4178.5 Khz	4216.0 Khz
6269.0 Khz	6269.0 Khz	6320.0 Khz
66273.5 Khz	6273.5 Khz	6324.5 Khz
8382.5 Khz	8382.5 Khz	8422.5 Khz
8387.0 Khz	8387.0 Khz	8427.0 Khz
12483.0 Khz	12483.0 Khz	12585.5 Khz
12487.5 Khz	12487.5 Khz	12590.0 Khz
12497.5 Khz	12497.5 Khz	12600.0 Khz
16689.5 Khz	16689.5 Khz	16813.0 Khz
16694.0 Khz	16694.0 Khz	16817 Khz
22290.5 Khz	22290.5 Khz	22382.5 Khz
22303.0 Khz	22303.0 Khz	22395.0 Khz
RADIOTELEGRAPHY (CHANNELS 3, 4, 7, 8, 98, 10)		
	426 Khz	
4 MHz	4 MHz	4247.5 Khz
6 MHz	6 MHz	6477.5 Khz
8 MHz	8 MHz	8618/8642 Khz
12 MHz	12 MHz	12808.5/13002.0 Kh
16 MHz	16 MHz	17016.5/17088 Khz

NOTE: * INDICATES ON REQUEST (O/R)

NMC SAN FRANCISCO, CA

(In addition to transmitters located at San Francisco, NMC remotely keys 448/472 Khz with transmitters located in Long Beach, Ca. and Astoria, Or.)

2182 Khz	2182 Khz	26760 Khz
RADIOTELEGRAPH (Channels 3, 4, 7)		
6 MHz		6383 Khz
8 MHz	8 MHz	8574 Khz
16 MHz		17220.5 Khz

DIRECT PRINTING RADIOTELETYPE
SELCALL 1.01096
(Assigned frequency shown)

*4178 Khz	*4178 Khz	4215.5 Khz
	6272.5 Khz	6323.5 Khz
8386 Khz	8386 Khz	8426 Khz
*12497.5 Khz	*12497.5 Khz	12600 Khz
16693 Khz		16816.5 Khz
*22294 Khz	*22294 Khz	22386 Khz
*25202.5 Khz	*25202.5 Khz	25380 Khz

SSB VOICE FREQUENCIES
(Carrier frequency shown)

4134 Khz	4134 Khz	4426 Khz
6200 Khz	6200 Khz	6501 Khz
8240 Khz	8240 Khz	8764 Khz
12242 Khz	12242 Khz	13089 Khz
*16432 Khz	*16432 Khz	17314 Khz

DIRECT PRINTING RADIOTELETYPE
SELCALL 1094
Add the following channel:

12602.5	12602.5	12500.0 (ATOR)

NMO HONOLULU, HI.

		440 Khz
2182 Khz	2182 Khz	2670 Khz
Radiotelegraph	(Channels 5, 6, 11)	
8 MHz	8 MHz	8650 Khz
12 MHz	12 MHz	12889.5 Khz
Radiotelegraph	(Channels 3, 4)	
22 MHz		22476 Khz

DIRECT PRINTING RADIOTELETYPE
SELCALL 1.01099
(Assigned frequency shown)

NMO			
HONOLULU, HI.	*4174 Khz	*4174 Khz	4212 Khz
(CONTINUED)	*6264.5 Kh	*6264.5 Khz	6316 Khz
	8389.5 Khz	8389.5 Khz	8429.5 Khz
	12486.5 Kh	12486.5 Khz	12589 Khz
	16696.5 Kh	16696.5 Khz	16819.5 Khz
	22297.5 Kh		22389.5 Khz
	SSB VOICE FREQUENCIES		
	(Carrier frequency shown)		
	0600-1800z	1800-0600z	
	4134 Khz		4426 Khz
	6200 Khz	6200 Khz	6501 Khz
	8240 Khz	8240 Khz	8764 Khz
		12242 Khz	13089 Khz
	*16432 Kh	*16432 Khz	17314 Khz
NOJ			
KODIAK, AK.			470 Khz
	2182 Khz	2182 Khz	2670 Khz
	SSB VOICE FREQUENCIES		
	(Carrier frequency shown)		
	*4134 Khz	4134 Khz	4426 Khz
	6200 Khz	6200 Khz	6501 Khz
	*8240 Khz	*8240 Khz	8764 Khz
	*12242 Kh	*12242 Khz	13089 Khz
	*16432 Kh	*16432 Khz	17314 Khz
NRV GUAM			
	12 MHz		12743 MHz
	16 MHz	16 MHz	17146.4 MHz
	RADIOTELEGRAPH (Channels 3, 4)		
	22 MHz		22527 Khz
	DIRECT REPORTING RADIOTELETYPE		
	SELCALL 01100		
	(Assigned frequency shown)		
	*4178 Kh	*4178 Khz	4215.5 Khz
	*6268.5 Khz	*6268.5 Khz	6319.5 Khz
		8382 Khz	8422 Khz
		12482.5 Khz	8422 khz
	16689 Kh	16689 Khz	16812.5 Khz
	22290 Kh		22382 Khz
	SSB VOICE FREQUENCIES		
	(Carrier frequency shown)		
	0900-2100z	2100-0900z	
	6200 Khz	6501 Khz	
	12242 Kh	13089 Khz	

PACIFIC COMMUNICATIONS CHART EASTERN PACIFIC

Bands Guarded			
CALL-Location	**Day**	**Night**	**Working**
VFA-Inuvik NT	**SSB Voice**		**Frequency**
	2182 Kh	2182 Khz	2054 Khz
	4 MHz	4 MHz	4363.6 Khz
	6 MHz	6 MHz	6506.4 Khz
	8 MHz	8 MHz	8796.4 MHz
	12 MH	12 MHz	13141.1 Khz
	Radiotelegraphy		
	4 MHz	4 MHz	4292 Khz
	6 MHz	6 MHz	6351.5 Khz
	8 MHz	8 MHz	8456 Khz
	12 MH	12 MHz	12671 Khz
	VHF CH. 16	VHF CH. 16	VHF CH. 16

Note: * Indicates on request (O/R)

CANADIAN STATIONS

	DAY	NIGHT	WORKING FREQUENCY
VAJ Prince Rupert			
BC			
			420 Khz
	SSB VOICE		
	2182 Khz	2182 Khz	2054 Khz
	4 MHz	4 MHz	4125 Khz
	VHF CH. 16	VHF CH. 16	VHF CH. 26
VAE Tofino			
BC			478 Khz
	SSB VOICE		
	2182 Khz	2182 Khz	2054 Khz
	4 MHz	4 MHz	4125 Khz
	VHF CH. 16	VHF CH. 16	VHF CH. 26
VAK Victoria			
BC			478 Khz
	SSB VOICE		
	2182 Khz	2182 Khz	2054 Khz
	4 MHz	4 MHz	4125 Khz
	VHF CH. 16	VHF CH. 16	VHF CH. 26
VAI Vancouver			
BC	SSB VOICE		440 Khz
	4 MHz	4 MHz	4235 Khz
	6 MHz	6 MHz	6493 Khz
	8 MHz	8 MHz	8453 Khz
	12 MHz	12 MHz	12876 Khz
	16 MHz	16 MHz	17175.2 Khz
	22 MHz	22 MHz	22368 Khz

SSB VOICE

2182 Khz		2182 Khz	2054
4090 Khz		4090 Khz	4385.3 Khz
6212.4 Khz	6212.4 Khz	6518.0 Khz	
8213.6 Khz	8213.6 Khz	8737.5 Khz	
12348.6 Khz	12348.6 Khz	13119.4 Khz	
16481.7 Khz	16481.7 Khz	17254.6 Khz	
220058.9 Khz	22058.9 Khz	22654.9 Khz	

Direct Printing Radioteletype
SELCALL 1.00581

4174.5 Khz	4174.5 Khz	4354 Khz	
6260.5 Khz	6260.5 Khz	6498.5 Khz	
8356 Khz		8356 Khz	8717 Khz
12511.5 Khz	12511.5 Khz	13091.5 Khz	
16676 Khz	16676 Khz	17213 Khz	
22207.5 Khz	22207.5 Khz		
VHF CH. 16	VHF CH. 16	VHF CH. 26	

Halifax Coast Guard Radio/VCS
Radiotelegraphy frequencies effective July 1, 1991

Calling frequencies
VCS assisgned both common channels and channels in group 3
(Common channels 3 and 4 plus channels 7 and 8.)

4285.0 Khz

CH 3 4184.0
CH 3 4184.5
CH 7 4185.0
CH 8 4185.0

6491.5 Khz

CH 3 276.0
CH 4 276.5
CH 7 279.0
CH 8 279.5

8440.0 Khz

CH 3 8368.0
CH 4 8369.0
CH 7 8368.5
CH 8 8369.5

12874.0 Khz

CH 3 12552.0
CH 4 12553.5
CH 7 12552.5
CH 8 12553.0

16948.5 Khz

CH 3 16736.0
CH 4 166738.0
CH 7 16736.5
CH 8 16737.0

22619.5 Khz

CH 3 22280.5
CH 4 22281.0
CH 7 22282.5
CH 8 22283.0

RADIOTELEPHONY

CH 418 4408/4116
CH 605 6513/6212
CH 823 8785/8261
CH 1213 13113/12266
CH 1604 17251/16369
CH 2213 22732/22036

RADIOTELEX

CH 7 4213.5/4175.5
CH 7 6317.5/6266.0
CH 7 8419.5/8379.5
CH 39 12598.5/12496.0
CH 31 16821.5/16698.5
CH 58 22405.0/22313.0

WORKING FREQUENCIES RADIOTELEGRAPHY

PRIMARY

4187.0 - 4202.0
6285.0 - 6300.0
8342.0 - 8365.5
8371.0 - 8376.0
12422.0 - 12476.5
16619.0 - 16683.0
22242.0 - 22279.0

4202.5 - 4207.0
6300.5 - 6311.5
8396.5 - 8414.0

12560.0 - 12567.5
16785.0 - 16804.0
22352.0 - 22374.0

OTHER WORKING FREQUENCIES

4172.5 - 4181.5
6275.0 - 6284.5
8390.5 - 8396.0

12505.5 - 12559.5
16718.5 - 16784.5
22318.0 - 22351.5

Western North Atlantic

VFF Iqaluit NT	**Radiotelegraphy**		
		430 Khz	
	4 MHz	4 MHz	4236.5 Khz
	6 MHz	6 MHz	6335.5 Khz
	8 MHz	8 MHz	8443 Khz
	12 MHz	12 MHz	12671 Khz
	SSB Voice		
	2182 Khz	2182 Khz	2582 Khz
	4081.6 Khz	4081.6 Khz	4376 Khz
	6206.2 Khz	6206.2 Khz	6512.6 Khz
	8229.1 Khz	8229.1 Khz	8229.1 Khz
	12330 Khz	12330 Khz	13100.8 Khz
	VHF CH. 16	VHF CH. 16	VHF CH. 26

	Day	Night	Working Freq.
VOJ Stephenville NF			416 Khz
	2182 Khz	2182 Khz	2514 Khz
	VHF CH. 16	VHF CH. 16	VHF CH. 26
VOO Comfort Cove NF			430 Khz
	2182 Khz	2182 Khz	2514 Khz
	VHF CH. 16	VHF CH. 16	VHF CH. 26
VCM St. Anthony NF			448 Khz
	2182 Khz	2182 Khz	2514 Khz
	VHF CH. 16	VHF CH. 16	VHF CH. 26
VON St. John's NF		460 Khz	
	2182 Khz	2182 Khz	2514 Khz
	VHF CH. 16	VHF CH. 16	VHF CH. 26
VCP St. Lawrence NF			420 Khz
	2182 Khz	2182 Khz	2514 Khz
	VHF CH. 16	VHF CH. 16	VHF CH. 26
VCK Sept-Iles QC		420 Khz	
	2182 Khz	2182 Khz	2514 Khz
	VHF CH. 16	VHF CH. 16	VHF CH. 26
VCG Riviere Au Renard QC		434 Khz	
	2182 Khz	2182 Khz	2514 Khz
	VHF CH. 16	2182 Khz	2514 Khz
VCN Cap Aux-Meules QC		440 Khz	
	2182 Khz	2182 Khz	2514 Khz
	2514 Khz		
	VHF CH. 16	VHF CH. 16	VHF CH. 26

VCO Sydney NS			464 Khz
	2182 Khz	2182 Khz	2540 Khz
	VHF CH. 16	VHF CH. 16	VHF CH. 26
VBA Thunder Bay	**Radiotelegraphy**		
ON			420 Khz
(Churchill MN)	6 MHz	6 MHz	6370 Khz
	SSB Voice		
	2182 Khz	2182 Khz	2582 Khz
	4081.6 Khz	4081.6 Khz	4376 Khz
	VHF CH. 16	VHF CH. 16	VHF CH. 26

ATLANTIC COMMUNICATIONS CHART
WESTERN NORTH ATLANTIC

VCS Halifax NS	**Radiotelegraphy**		
			484 Khz
	4 MHz	4 MHz	4285 Khz
	6 MHz	6 MHz	6491.5 Khz
	8 MHz	8 MHz	8440 Khz
	12 MHz	12 MHz	12874 Khz
	16 MHz	16 MHz	16948.5 Khz
	22 MHz	22 MHz	22387 Khz
	SSB Voice		
	2182 Khz	2182 Khz	2054 Khz
	4115.7 Khz	4115.7 Khz	4410.1 Khz
	6212.4 Khz	6212.4 Khz	6518.8 Khz
	8263.2 Khz	8263.2 Khz	8787.1 Khz
	12367.2 Khz	12367.2 Khz	13138 Khz
	16469.3 Khz	16469.3 Khz	17242.2 Khz
	22037.2 Khz	22037.2 Khz	22633.2 Khz
	Direct Printing Radioteletype		
	SELCALL 100580		
	4173.5 Khz	4173.5 Khz	4353 Khz
	6259.5 Khz	6259.5 Khz	6497.5 Khz
	Day	Night	Working Freq.
	8347 Khz	8347 Khz	8708 Khz
	12510.5 Khz	12510.5 Khz	13090.5 Khz
	16675.5 Khz	16675.5 Khz	17212.5 Khz
	22221 Khz	22221 Khz	22590 Khz
	VHF CH. 16	VHF CH. 16	VHF CH. 26

PANAMA INTELMAR RADIO

Radio telephone VHF

Channel	TX		RX
16	156.8	SIMPLEX	156.8
23	161.75	PACIFIC	157.15
24	161.80	ATLANTIC	157.20
25	161.85	PACIFIC	157.25
26	161.90	PACIFIC	157.30
27	161.90	ATLANTIC	157.35 (NOT USED)
28	162.00	ATLANTIC	157.40

Radiotelephone (MF)
H-24
2182 Khz Emergency Band - 2182 Khz
Working Frequency (SIMPLEX)
2507.0 2740.0

Radiotelephone (HF)
(Previous Request on CW)

Channel	TX	RX
401	4357.4	4063.0
424	4428.7	4134.3
602	6509.5	6203.1

Radiotelephone (HF) (Continued)

Channel	TX	RX
817	8768.5	8244.6
819	8774.7	8250.8
1204	13110.1	12339.3
1232	13196.9	12426.1
1615	17276.3	16503.4
1622	17298.0	16525.1
2203	22602.2	22006.2
2208	22617	22021.7
	Calling Channels	
421	4125.0	4419.4
606	6215.5	6521.9
821	8257.0	8780.9
1221	12392.0	13162.8
1621	16522.0	17294.9
2221	222617.7	22658.0

Radio Telegraphy (CW)

TX	H-24		RX	
	Emergency Band Frequency			
445 (Working Frequency)		425	454	468
456.8			480	512

Radio Telegraphy (CW) (HF)
Channels 3-4

Note: From 1200 Hrs. to 2100 Hrs.		
4275	H-8	4184/4184.5
Note: Only on request		
6423.5		6276/6276.5
	H-24	
8589.0		8368/8369.5
12699.0		12550/12552/12553.5
	H-8	
Note: FM 21( ) hrs. to 1200 hrs. UT		
17232.4		16736/16736/16737.5

Radio Telex (RTTY-SITOR)

Channel	TX	RX
412	4215.5	4178.0 By Request-CW
408	4214.0	4176.0 By Request-CW
809	8420.5	8380.5 By Request-CW
817	8424.5	8384.5 By Request-CW
1208	12583.0	12480.5 H 24
1633	16822.5	16699.5 H 24

DEUTCHE TELEKOM AG - NORDDEICH RADIO

Channel				
2727.0 kHz	(DAN)	2538.0	(ship)	24 hours
8423.5 kHz	(DCL)	8383.5	(ship)	24 hours
16836.0 kHz	(DCF)	16713.0	(ship)	07-19 UTC
12586.5 kHz	(DCL)	12484.0	(ship)	07-19 UTC October - March
22391.0 kHz	(DCL)	22299.0	(ship)	07-19 UTC April - September
6320.0 kHz	(DCL)	6269.0	(ship)	19-07 UTC

NEWS FROM HONG KONG:

COMMS CHART SUPPLEMENT

The Hong Kong Coast Radio Station has changed its call sign from "VPS" to "VRX" as of August 2, 1994. Ships sending observations to them by Radiotelegraphy or Radiotelex should pay special attention to this change in call signs.

Operation Schedule
The Hong Kong Station - Hong Kong Radio

(1) Radiotelegraphy

Band (MHz)	Keeps watch on	Answers on Call Sign	Frequencies (kHz)	Hours of Operation
	500 kHz	VRX	500/526.0	0000-2400
	512 kHz (*) VRX	526.0	0000-2400	
4	Comm Ch. 3 ,4 Grp 2 Ch 5, 6	VRX8	4232.5	1000-2100
8	Comm Ch. 3, 4	VRX35	8539.0	0000-2400
12	Grp 2 Ch. 5, 6VRX 2(**)	8584.0	0000-1300	
	Comm Ch. 3, 4, Grp 2 Ch. 5. 6	VRX 60	13020.4	0000-1500
16	Comm Ch. 3, 4 Grp 2, Ch. 5, 6	VRX80	17096.0	0000-1300 & 2100-2400
22	Comm Ch. 3, 4 Grp 2 Ch. 5	VRX99	22536.0	0300-1000

(*) - Hong Kong Station (VRX) keep continuous watch, calls and answers calls on 500 kHz. When distress working on 500 kHz is in progress, watch will be kept on 512 k Hz and answer made on 526.0 kHz.

(**) - VRX36 (8584 Khz) is allocated exlusively for the reception of OBS messages from ships between 0000-010000 UTC and 0600-0700 UTC.

(ii) Radiotelex

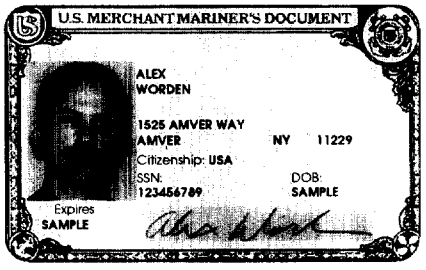
The call-code number is 1.04631, and the answer-back code to ship is "4631 HKRDO VRXZ"

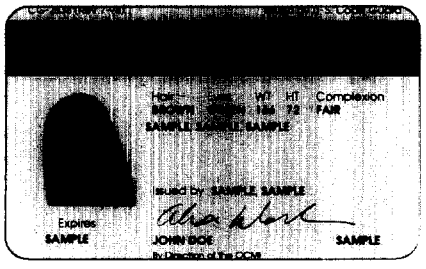
Channel Series

Number	Call Sign	VRX Transmits (kHz)	VRX Receives (kHz)	Hrs. of Operation (UTC)
0618	VRX23	6322.5	6271.5	1000-2300
0811	VRX33	8421.5	8381.5	2300-1000
0817	VRX34	8424.5	8381.5	2300-1000
1213	VRX63	12585.5	12483	0000-2400
1223	VRX64	12591	12488.5	2300-1400
1630	VRX83	16821	16698	0000-2400
1650	VRX84	16821	16708	2300-1400
2206	VRX93	22379	22287	2300-1000

RULES - CHANGES - STANDARDS - REQUIREMENTS

The new credit card- style merchant mariner document





In taking advantage of today's technology, the U. S. Coast Guard has started issuing a credit card-style Merchant Mariner Document (MMD). The first MMDs were issued at Coast Guard Regional Examination Centers in Boston, New York, Baltimore, Miami, New Orleans, Houston, San Francisco, Seattle, Charleston, South Carolina, and Portland, Maine.

The new cards are similar in appearance to the current document but are made of plastic and have a magnetic stripe similar to that found on the back of a credit card. The stripe contains such information as the mariner's name, social security number, and other pertinent information.

To ensure security and accuracy, only designated Coast Guard personnel at the issuing exam centers are able to change the information contained on the stripe. It will not be possible for shipping companies and unions to alter the information due to privacy considerations.

Software that will enable the shipping industry and unions to automate shipping articles and certificates of discharge also will be made available by the Coast Guard. The software will permit the electronic transmission of this information to the Coast Guard, shipping companies and unions and allow them to maintain additional company/union related data such as training received and vacation time accrued. The Coast Guard will publish additional information on this software at a later date.

The remaining regional centers have already begun issuing MMDs as the system is installed. The monitoring unit at San Juan, Puerto Rico has also begun issuing the new MMDs. For more information, contact the Project Officer at (202) 267-0238.

Coast Guard Vessel Documentation Consolidates in Martinsburg, West Virginia

The Coast Guard has also consolidated much of its Federal Vessel Documentation Program. The main location for vessel documentation will be at the agency's Operations System Center in Martinsburg, West Virginia. The Coast Guard expects to complete the consolidation in the near future.

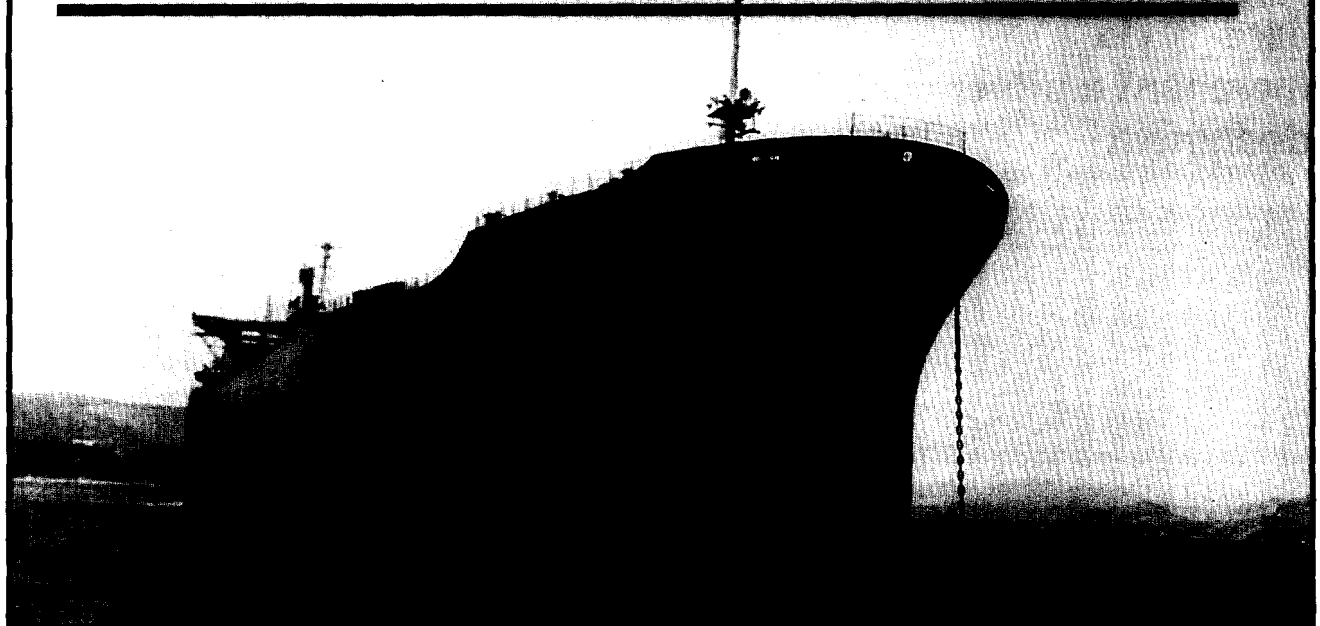
The centralization will culminate a process begun in 1983 when the Coast Guard reduced the number of vessel documentation offices nationwide from more than 100 to 15. It increases efficiency, reduces overhead costs and allows the implementation of new technology that improves commercial and recreational customer service.

Vessel documentation is a form of national registration for vessels which serves to establish a vessel's nationality and qualification to be employed in specified trades such as fisheries or coastwise service.

The federal program has existed from the days of the First Congress of the United States and was developed to ensure unencumbered interstate and international commerce. Today the Vessel Documentation Program also operates a document recording function which provides evidence of vessel ownership, mortgages and liens.

Applicants are no longer required to appear at a documentation office, to take an oath or fill out paperwork. Instead, the application and renewal process can be completed by mail and the number of forms required to document a vessel have been reduced significantly.

HAWAIIAN KING Leads ACHILLE LAURO Rescue Effort!



Ship's Log Recounts Rescue Of Survivors! See Page 26

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