Icom America 04/27/07

M802 Channels

HF Marine Transceiver

Your new Icom M802 has 160 user programmable marine channels in addition to the ITU channels, most of which have been preprogrammed by Icom America. These channels have been programmed to best reflect the needs of boaters throughout the United States. These user channels can be reprogrammed by you, the user. A list of the preprogrammed channels is included. Also included is a procedure you can use to reprogram these channels to best reflect your operating needs, as well as an article explaining SSB channels and frequencies.



IC-M802 Frequency Programming

Frequency Selecting

Using the channel selector

- Select a channel which is programmed near the frequency you want to receive.
- ② Push [RX CLAR] to select the frequency selection mode.
 - •">" appears in the display



"and frequency show that the frequency can be changed.

 Rotate [GRP] to select the digit for tuning. Under-bar shows the selected digit.



[GRP].

- ④ Rotate [CH] to tune the frequency.
- Pushing [▲]/[♥] on the microphone also tunes the frequency.
- (5) Repeat steps (3) and (4) to complete the frequency selection.
- ⑥ To return to the previous frequency, push [RX CLAR].
 - •">" disappears.

Using the keypad

CAUTION: A frequency can be programmed into a user channel by pushing and holding [ENT] for 1 sec. after entering a frequency. An ITU simplex frequency can only be programmed on a temporary basis. Keypad entry should be used only on spare (or blank) channels.

 Rotate [GRP] and [CH], or enter a 1 to 4 digit number via the keypad, then push [ENT] to select the memory channel to be used for general coverage use.



When a blank channel is selected, operating frequency, mode and channel name do not appear.

2 Push [RX CLAR] to select the frequency selection mode.

•">" appears in the display.

- ③ Enter 4 to 6 digits of the desired frequency via the keypad.
- ④ Push [ENT] momentarily to input the frequency. DO NOT hold [ENT] for more than 1 sec., otherwise the frequency will be programmed into the channel.

[EXAMPLE]: Setting 12.3450 MHz



 The set frequency can be cleared when [RX cLAR] is pushed while setting.

Programming a Frequency

Receive frequency

- Select the desired channel to be programmed.
 Channel 1 to 160 (maximum) are programmable.
- ② Push [RX CLAR] to select the frequency selection mode.



③ Enter 4 to 6 digits of the desired frequency via the keypad.

Or rotate [GRP] and [CH] to change the frequency.
 Pushing [▲]/[♥] on the microphone also tunes the frequency.

④ Push [MODE sET] several times to select the desired operating mode (type of emission).



⑤ Push [ENT] for 1 sec. to program the user channel.

3 beeps sound and "▶" disappears.



">" indicator disappears when programming is completed.

♦ Transmit frequency

- Select the desired channel to be programmed.
- Push [TX TXF].



- ③ Enter the desired 5 or 6 digit frequency via the keypad.
 - . [GRP] and [CH], as well as [▲]/[▼] on the microphone cannot be used.



④ Push [ENT] for 1 sec. to program the user channel.

3 beeps sound.



"TX" indicator disappears.

Ch. N°.	Receive Freq.	Ship Transmit Freq.	MODE	Comment	Channel Name		
1	2182.0	2182.0	USB	Distress	LOCAL DISTRESS (Intl Ch)		
2	4125.0	4125.0	USB	SOS 4S	DISTRESS CALLS		
3	6215.0	6215.0	USB	SOS 6S	DISTRESS CALLS		
4	8291.0	8291.0	USB	SOS 8S	DISTRESS CALLS		
5	12290.0	12290.0	USB	SOS 12S	DISTRESS CALLS		
6	16420.0	16420.0	USB	SOS 16S	DISTRESS CALLS		
7	2670.0	2670.0	USB	USCG LCL	USCG WX & Working		
8	4426.0	4134.0	USB	USCG 424	USCG WX & Working		
9	6501.0	6200.0	USB	USCG 601	USCG WX & Working		
10	8764.0	8240.0	USB	USCG 816	USCG WX & Working		
11	13089.0	12242.0	USB	USCG1205	USCG WX & Working		
12	17314.0	16432.0	USB	USCG1625	USCG WX & Working		
13	2500.0	Rx Only	AM	WWV 2	WWV Time/Noise Check RX		
14	5000.0	Rx Only	AM WWV 5 WWV Time/Nois		WWV Time/Noise Check RX		
15	10000.0	Rx Only	AM	AM WWV 10 WWV Time/Noise			
16	15000.0	Rx Only	AM	WWV 15	WWV Time/Noise Check RX		
17	20000.0	Rx Only	AM WWV 20 WWV Time/Nois		WWV Time/Noise Check RX		
18	3330.0	Rx Only	USB	CHU 3	CHU Canada Time/Check RX		
19	7335.0	Rx Only	USB CHU 7 CHU Canada		CHU Canada Time/Check RX		
20	14670.0	Rx Only	USB	CHU 14	CHU Canada Time/Check RX		
21	4369.0	4077.0	USB	WLO 405	Phone Service / Radio Check		
22	8788.0	8264.0	USB	WLO 824	Phone Service / Radio Check		
23	8806.0	8282.0	USB	WLO 830	Phone Service / Radio Check		
24	13110.0	12263.0	USB	WLO 1212	Phone Service / Radio Check		
25	13152.0	12305.0	USB	WLO 1226	Phone Service / Radio Check		
26	17260.0	16378.0	USB	WLO 1607	Phone Service / Radio Check		
27	17362.0	16480.0	USB	WLO 1641	Phone Service / Radio Check		
28	19773.0	18798.0	USB	WLO 1807	Phone Service / Radio Check		
29	22804.0	22108.0	USB	WLO 2237	Phone Service / Radio Check		
30	26151.0	25076.0	USB	WLO 2503	Phone Service / Radio Check		
31	4405.0	4113.0	USB	KLB 417	Phone Service / Radio Check		
32	8731.0	8207.0	USB	KLB 805	Phone Service / Radio Check		
33	13101.0	12254.0	USB	KLB 1209	Phone Service / Radio Check		
34	17311.0	16429.0	USB	KLB 1624	Phone Service / Radio Check		

Table A: User Channels

Ch. N°.	Receive Freq.	Ship Transmit Freq.	MODE	Comment	Channel Name
35	2054.0	Weather Charts	USB WXFX AK		Weather Fax Kodiak, Alaska
36	4298.0	Weather Charts	USB	WXFX AK	Weather Fax Kodiak, Alaska
37	8459.0	Weather Charts	USB	WXFX AK	Weather Fax Kodiak, Alaska
38	12412.5	Weather Charts	USB	WXFX AK	Weather Fax Kodiak, Alaska
39	4344.1	Weather Charts	USB	WXFX PAC	Weather Fax Pt. Reyes, CA
40	6451.1	Weather Charts	USB	WXFX PAC	Weather Fax Pacific
41	8680.1	Weather Charts	USB	WXFX PAC	Weather Fax Pt. Reyes, CA
42	12784.1	Weather Charts	USB	WXFX PAC	Weather Fax Pt. Reyes, CA
43	17149.3	Weather Charts	USB	WXFX PAC	Weather Fax Pt. Reyes, CA
44	22525.1	Weather Charts	USB	WXFX PAC	Weather Fax Pt. Reyes, CA
45	9980.6	Weather Charts	USB	WXFX HI	Weather Fax Honolulu, HI
46	11088.1	Weather Charts	USB	WXFX HI	Weather Fax Honolulu, HI
47	16133.1	Weather Charts	USB	WXFX HI	Weather Fax Honolulu, HI
48	4235.0	Weather Charts	USB	WXFX ATL	Weather Fax Boston, MA
49	6338.6	Weather Charts	USB	WXFX ATL	Weather Fax Boston, MA
50	9108.1	Weather Charts	USB	WXFX ATL	Weather Fax Boston, MA
51	12748.1	Weather Charts	USB	WXFX ATL	Weather Fax Boston, MA
52	19534.1	Weather Charts	USB	WXFX ATL	Weather Fax Atlantic
53	13503.1	Weather Charts	USB	WXFX ATL	Weather Fax Atlantic
54	4316.0	Weather Charts	USB	WXFX GLF	Weather Fax New Orleans
55	8502.0	Weather Charts	USB	WXFX GLF	Weather Fax New Orleans
56	12788.0	Weather Charts	USB	WXFX GLF	Weather Fax New Orleans
57	17144.1	Weather Charts	USB	WXFX GLF	Weather Fax New Orleans
58	11120.1	Weather Charts	USB	WXFX UAF	Weather Fax US Air Force
59	10553.1	Weather Charts	USB	WXFX AUS	Weather Fax Australia
60	11028.0	Weather Charts	USB	WXFX AUS	Weather Fax Australia
61	13548.2	Weather Charts	USB	WXFX NZL	Weather Fax New Zealand

Ch. N°.	Receive Freq.	Ship Transmit Freq.	MODE	Comment	Channel Name
62	5975.0	Receive Only	AM	BBC 5	BBC World Service News
63	11835.0	Receive Only	AM	BBC 11	BBC World Service News
64	15190.0	Receive Only	AM	BBC 15	BBC World Service News
65	9755.0	Receive Only	AM	CBC NEWS	CBC Radio Canada News
66	15290.0	Receive Only	AM	V of A	Voice of America News
67	12133.5	Receive Only	USB	NPR INTL	NPR International
68	5547.0	Listen Only	USB	AIR EM 6	Airlines (Life / Death)
69	8843.0	Listen Only	USB	AIR EM 8	Airlines (Life / Death)
70	13300.0	Listen Only	USB	AIR EM13	Airlines (Life / Death)
71	10493.0	Listen Only	USB	FEMA	FEMA (Listen Only)
72	8971.0	Listen Only	USB	CGA 897	US Coast Guard Aircraft
73	8983.0	Listen Only	USB	CGA 898	US Coast Guard Aircraft
74	13270.0	Listen Only	USB	TWR WX E	East Coast Weather
75	13282.0	Listen Only	USB	TWR WX W	West Coast Weather
76	2638.0	2638.0	USB	S-S 2638	2 MHz Ship-to-Ship
77	4146.0	4146.0	USB	Ship 4A	Ship-to-Ship "4 Alpha"
78	4149.0	4149.0	USB	Ship 4B	Ship-to-Ship "4 Bravo"
79	4417.0	4417.0	USB	Ship 4C	Ship-to-Ship "4 Charlie"
80	4003.0	4003.0	USB	S-S 4003	4 MHz Ship-to-Ship
81	4006.0	4006.0	USB	S-S 4006	4 MHz Ship-to-Ship
82	4009.0	4009.0	USB	S-S 4009	4 MHz Ship-to-Ship
83	4012.0	4012.0	USB	S-S 4012	4 MHz Ship-to-Ship
84	4015.0	4015.0	USB	S-S 4015	4 MHz Ship-to-Ship
85	4018.0	4018.0	USB	S-S 4018	4 MHz Ship-to-Ship
86	4021.0	4021.0	USB	S-S 4021	4 MHz Ship-to-Ship
87	4024.0	4024.0	USB	S-S 4024	4 MHz Ship-to-Ship
88	4027.0	4027.0	USB	S-S 4027	4 MHz Ship-to-Ship
89	4030.0	4030.0	USB	S-S 4030	4 MHz Ship-to-Ship
90	4051.0	4051.0	USB	S-S 4051	4 MHz Ship-to-Ship
91	4060.0	4060.0	USB	S-S 4060	4 MHz Ship-to-Ship
92	6224.0	6224.0	USB	Ship 6A	Ship-to-Ship "6 Alpha"
93	6227.0	6227.0	USB	Ship 6B	Ship-to-Ship "6 Bravo"
94	6230.0	6230.0	USB	Ship 6C	Ship-to-Ship "6 Charlie"
95	6516.0	6516.0	USB	Ship 6D	Ship-to-Ship "6 Delta"
96	6212.0	6212.0	USB	S-S 6212	6 MHz Ship-to-Ship
97	8294.0	8294.0	USB	Ship 8A	Ship-to-Ship "8 Alpha"
98	8297.0	8297.0	USB	Ship 8B	Ship-to-Ship "8 Bravo"
99	8101.0	8101.0	USB	S-S 8101	8 MHz Ship-to-Ship
100	8104.0	8104.0	USB	S-S 8104	8 MHz Ship-to-Ship
101	8107.0	8107.0	USB	S-S 8107	8 MHz Ship-to-Ship
102	8110.0	8110.0	USB	S-S 8110	8 MHz Ship-to-Ship
103	8116.0	8116.0	USB	S-S 8116	8 MHz Ship-to-Ship
104	8119.0	8119.0	USB	S-S 8119	8 MHz Ship-to-Ship

Ch. N°.	Receive Freq.	Ship Transmit Freq.	MODE	Comment	Channel Name		
105	8122.0	8122.0	USB	AMIGO	Amigo Net (Don's Wx)		
106	8125.0	8125.0	USB	S-S 8125	8 MHz Ship-to-Ship		
107	8131.0	8131.0	USB	S-S 8131	8 MHz Ship-to-Ship		
108	8137.0	8137.0	USB	CARIB WX	Caribbean WX Center Net		
109	8152.0	8152.0	USB	CRUZHIMR	Cruzheimers Net Summer		
110	8146.0	8146.0	USB	CRUZ ALT	Cruzheimers Net Alt Summer		
111	8164.0	8164.0	USB	CRUZ ALT	Cruzheimers Net Alt Summer		
112	6227.0	6227.0	USB	CRUZHIMR	Cruzheimers Net Winter		
113	6224.0	6224.0	USB	CRUZ ALT	Cruzheimers Net Alt Winter		
114	6230.0	6230.0	USB	CRUZ ALT	Cruzheimers Net Alt Winter		
115	8167.0	8167.0	USB	PANAMA	Panama Net		
116	8188.0	8188.0	USB	NW CARIB	NW Caribbean Net		
117	12353.0	12353.0	USB	SHIP 12A	Ship-to-Ship "12 Alpha"		
118	12356.0	12356.0	USB	SHIP 12B	Ship-to-Ship "12 Bravo"		
119	12359.0	12359.0	USB	SHIP 12C	"12 Charlie" (Herb's Wx)		
120	16528.0	16528.0	USB	SHIP 16A	Ship-to-Ship "16 Alpha"		
121	16531.0	16531.0	USB	SHIP 16B	Ship-to-Ship "16 Bravo"		
122	16534.0	16534.0	USB	SHIP 16C	Ship-to-Ship "16 Charlie"		
123	18825.0	18825.0	USB	SHIP 18A	Ship-to-Ship "18 Alpha"		
124	18828.0	18828.0	USB	SHIP 18B	Ship-to-Ship "18 Bravo"		
125	22159.0	22159.0	USB	SHIP 22A	Ship-to-Ship "22 Alpha"		
126	22162.0	22162.0	USB	SHIP 22B	Ship-to-Ship "22 Bravo"		
127	25100.0	25100.0	USB	SHIP 25A	Ship-to-Ship "25 Alpha"		
128	25103.0	25103.0	USB	SHIP 25B	Ship-to-Ship "25 Bravo"		
129	3696.0	3696.0	LSB	BAHAMAS	Bahamas Wx Net Ham		
130	3815.0	3815.0	LSB	W CARIB	WX Caribbean Net Ham		
131	3820.0	3820.0	LSB	BAYof IS	Bay of Islands Net Ham		
132	3856.0	3856.0	LSB	TACO 385	Taco Net Ham		
133	3930.0	3930.0	LSB	PR/VI WX	PR / VI Wx Net Ham		
134	3964.0	3964.0	LSB	EC WW 39	EC Waterway Net Ham		
135	3968.0	3968.0	LSB	SONRISA	Sonrisa Net Ham		
136	7158.0	7158.0	LSB	CARIBNET	Caribbean Net Ham		
137	7163.0	7163.0	LSB	CARIB WX	Caribbean WX Net Ham		
138	7185.0	7185.0	LSB	BARBADOS	Barbados Net Ham		
139	7197.0	7197.0	LSB	SPACIFIC	South Pacific Net Ham		
140	7200.0	7200.0	LSB	TACO 720	Taco Net Ham		

Ch. N°.	Receive Freq.	Ship Transmit Freq.	MODE	Comment	Channel Name	
141	7238.0	7238.0	LSB	BAJA 723	Baja Calif. Net	Ham
142	7250.0	7250.0	LSB	GORDO	Gordo Net	Ham
143	7260.0	7260.0	LSB	BAJA 723	Baja Calif. Net	Ham
144	7268.0	7268.0	LSB	EC WW 72	EC Waterway Net	Ham
145	7270.0	7270.0	LSB	S ATLNTC	South Atlantic Net	Ham
146	7285.0	7285.0	LSB	HAWAII A	Hawaii AM Net	Ham
147	7290.0	7290.0	LSB	HAWAII P	Hawaii PM Net	Ham
148	7292.0	7292.0	LSB	FLORIDA	Florida Net	Ham
149	7294.0	7294.0	LSB	CHUBASCO	Chubasco Net	Ham
150	14285.0	14285.0	USB	CA S PAC	CA - S Pacific Net	Ham
151	14300.0	14300.0	USB	HAM 1430	Ham Nets	Ham
152	14303.0	14303.0	USB	CA HI	CA - Hawaii Net	Ham
153	14313.0	14313.0	USB	HAM SHIP	Hams on Ships	Ham
154	14325.0	14325.0	USB	HUR'CANE	Hurricane Net	Ham
155	14330.0	14330.0	USB	GUNKHOLE	Gunkholers Net	Ham
156	14340.0	14340.0	USB	MANANA	Mañana Net	Ham
157	21325.0	21325.0	USB	ATLANTIC	Atlantic Net	Ham
158	21390.0	21390.0	USB	HALO	Halo Net	Ham
159	21402.0	21402.0	USB	PACIFIC	Pacific Net	Ham
160	28400.0	28400.0	USB	HAM 2840	Ham Net	Ham

Note: Ham channels are listen-only without the proper class FCC Amateur Radio Service license.

UNDERSTANDING YOUR SSB CHANNELS AND FREQUENCIES

By Gordon West, CMET

Of the nearly 1000 SSB channels pre-stored in your SSB radio, only a hundred or so can actually lead to meaningful reception. Those "hot 100" channels are likely pre-loaded in user programmable memory (UPM), and Gordo explains how to dial in these most-important frequencies....

NAVIGATING YOUR SSB

Your marine single sideband transceiver (transmitter and receiver combined in one unit) operates on frequencies in the shortwave spectrum between 2 MHz and 26 MHz. These short wavelength frequencies refract radio signals off the ionosphere, reflect off sea water, and may easily skip hundreds and thousands of miles around the earth.

Marine single sideband channels and frequencies are managed by the International Telecommunications Union (ITU). Included among these are all the emergency distress channels for the Global Maritime Distress Safety System (GMDSS). ITU's stewardship of these channels ensures that a marine SSB radio purchased anywhere in the world will have the same international safety and distress channels as all other SSB's. As a result, all SSB radios can be used anywhere in the world, from the Med, the Caribbean, or the South Seas to the Bering Strait.

Here is a simple formula to figure an approximate range of reception.

MHz x 100 = expected minimum range

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MHz x 200 = expected maximum range
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Marine SSB channels, and their approximate range, are listed here:

2 MHz	0-200 miles	very short range, local
4 MHz	400-800 miles	popular race and regatta channels
6 MHz	600-1200 miles	excellent skywave, short range
8 MHz	800-1600 miles	medium range, day and night
12 MHz	1200-2400+ miles	long range "high seas", days and
		evenings
16 MHz	1600-3200+ miles	long range "high seas", days
22 MHz	2200+ miles	very long range, days
26 MHz	2600 + miles	few skywaves until 2009

Most marine SSB transceivers are loaded with all worldwide ITU channels, identified with 3 or 4 digit designators beginning at 401, and ending at 2510. RARELY will you hear anything but static. But within each ITU BAND are specific marine SSB channels. While some are simple "talk or listen" (SIMPLEX) channels sharing a single frequency, most are simultaneous "talk and listen" (DUPLEX) channels made up of closely spaced but separate transmit and receive frequencies.

Most DUPLEX ITU channels, such as ITU no. 411 and ITU no. 2203, are associated with major shore stations and telephone interconnect facilities. Domestic and international GMDSS rescue agencies, including the US Coast Guard, use a duplex channel in each band for weather broadcasting and routine communications. While competition with global sat phone networks has pushed most of the telephone interconnect stations off the air, we still have one powerful USA Public correspondence station, WLO, in Mobile, Alabama with companion transmission and reception near Seattle (KLB), that can receive SSB transmissions from subscribers sailing the Atlantic and Pacific Oceans north of the equator and connect them with any telephone in the world.

SIMPLEX ITU channels have been "split" to offer ship-to-ship and shipto-shore communications. The US Coast Guard and other rescue agencies throughout the world listen for transmissions on those ITU simplex channels that end with "50".

> ITU 450 ITU 650 ITU 850 ITU 1250 ITU 1650

Ship-to-ship simplex channels end with ITU numbers like "51", "52", and "53", i.e. 451, 851, and 1252. But then again, ship-to-ship channels may also be listed by frequency in kilohertz, and then AGAIN, with a designator, like "4 ALPHA", and then again, "4-1".

CONFUSED WITH ALL THESE NUMBERS? You go to the instruction manual, and nearly go over the edge when popular ship-to-ship channel "4 ALPHA", regularly used by race committees, is listed as "bus and op" (Business and Operational). Say what?

LOGICAL USER CHANNELS

SSB Manufacturer ICOM, with their flagship radios the M-802 and M-710, realized the frustrating confusion arising from the huge number of channels available, where they all fit, and who needs which frequencies when cruising to far off places. A list of the top 160 USER CHANNELS was recently developed by marine radio experts coast-tocoast, and compiled by Rick Waedekin, Sr., ICOM America technical specialist for SSB installations. This list prioritizes and makes sense out of those channels that will regularly lead to meaningful radio reception, with instant access to ship-to-ship and ship to Coast Guard channels in case of an emergency. The national Marine Electronics Association (NMEA) recently published this list of 160 important SSB frequencies in an effort to standardize a "user programmable load" for use in any manufacturer's model of marine SSB equipment.

The user programmable load normally begins at "user channel" 1, and may end at "user channel" 100 or "user channel" 160. The user channel "load" is normally stored after the succession of ITU channels 4 MHz through 26 MHz duplex.

THE NEW "USER CHANNEL" LINEUP

Refer to table "A" 1-160 channels and their associated frequencies, in this article. Cross reference YOUR user memory programmable load with THIS to better understand how you may already have an excellent frequency lineup but in a slightly different order than what appears here.

<u>Channel 1</u>: 2182 kHz This is an ultra short range distress channel likely to have no further range than VHF Channel 16.

<u>Channels 2-6</u>: These are simplex distress channels monitored continuously by our US Coast Guard at various locations throughout the country. Medium range frequency 8291 kHz, and longer range frequency 12,290 kHz, are best when cruising well offshore.

<u>Channels 8-12</u>: Here is where you can tune in US Coast Guard automated weather broadcasts. These are not continuous, so dial around on the hour and half-hour until you pick up a local or distant weather report.

<u>Channel 13-20</u>: These are American and Canadian powerful time signal frequencies. This is a good way to check your antenna's reception capability. 10,000 kHz (10 MHz) and 15,000 kHz (15 MHz) time signals from WWV should come in relatively loud and clear throughout the USA during the day and evening. Cycle off refrigeration, battery charger, florescent lights, and small motors to see how reception can improve with noise makers shut down!

<u>Channels 21-34</u>: This is the last remaining high seas voice long range telephone service on the air in the United States. Station WLO transmits centrally from Mobile, Alabama serving the Atlantic and Caribbean areas and station KLB transmits from the Northwest to extend reception out into the Pacific. For more information on their regular weather forecasts on these channels, go to

www.WLORadio.com WLO welcomes radio checks.

Channels 35-61: These are your weather facsimile frequencies. "PAC" is for Pacific coverage, "ATL" for the Atlantic, "GUL" for the Gulf. Alaska is "AK" and Hawaii is "HI". These are not continuous weather fax signals, but at least 4 times a day you should hear activity for up to an hour. Listen for twice a second rhythmic sweeping of the weather fax signal. A simple patch cable takes your SSB audio output to your laptop's sound card INPUT, and running a program like MSCAN (www.MSCAN.com) makes that twice a second sound turn into lines of weather fax imagery! Your laptop does all the work without the need of an expensive "black box" between your computer and your SSB's audio output.

Channels 62-67: These channels contain randomly selected international shortwave broadcast stations, many using the English language. Your SSB can also change to other global broadcasters in case you want to listen to other programming coming in from around the world. These channels are a great way to stay up-to-date on current events when you're far from home.

<u>Channel 68-75</u> These are fascinating aeronautical channels that receive broadcasts from airplanes, local and thousands of miles away. Many times they will transmit observed weather, so you have a bird's eye view of what the pilots are seeing all around you.

<u>Channels 76-128</u> These are ship-to-ship marine SSB channels. Authorized shore stations may also use these channels as well. This

could allow you to talk thousands of miles away at sea to other boats, or to your local yacht club if they have the marine SSB station license.

Ship-to-ship channels labeled with "A", "B", and "C" are primary racing channels, in regular use by long range cruising mariners, as well as race committees.

The FCC authorizes shared use of 4 MHz and 8 MHz radio channels -these frequencies are spelled out in kHz. These ADDITIONAL ship-toship channels are popular in congested coastal and Caribbean radiotraffic areas where the "A", "B", "C" primary ship-to-ship channels are regularly tied up.

Remember the x100 rule about how far your radio signals will bounce:

4000 kHz = 4 MHz = 400 to 800 miles 8000 kHz = 8 MHz = 800 to 1600 miles 12000 kHz = 12 MHz = 1200 to 2400 miles

If you select a ship-to-ship or ship-to-shore channel too high in frequency for short and medium range communications, your signal will actually skip over the station you want to contact. 8 MHz and 12 MHz are the primary medium range and long range ship-to-ship channels. 4 MHz and 6 MHz are primarily the short to medium range ship-to-ship channels.

<u>Channels 129-160:</u> DON'T TRANSMIT! Unless it is a true life and death emergency, do not transmit on these HAM RADIO channels until you have passed your General Class license exam. No more Morse code test!

Ham radio channels, pre-loaded in your marine SSB allow you to LISTEN and glean valuable weather information. The powerful shoreside net control stations are easily heard over hundreds, perhaps thousands of miles, giving out great weather forecasts and taking reports from licensed ham operators from around the country -sometimes from around the world.

You must be a General, Advanced, or Extra Class licensed ham radio operator to transmit on these frequencies. However, in an emergency, ham radio operators would always take your distress traffic if you simply say your vessel name and your FCC assigned ship station call letters.

WHERE ARE THESE CHANNELS?

To take advantage of these pre-memorized user channels, you first need to find where the user channels have been stored in YOUR marine SSB. Try this: On your keypad, type **1-0-0 ENT**. You should be in the middle of the user channel set, at user channel 100. Next, verify that YOUR user channels are similar to those in table A. If they are abridged and completely different, your local marine electronics dealer needs to provide a computer upload.

If just a few channels are different, follow your SSB instruction book for writing over an existing memory channel frequency. Most likely, you will be adding 5-10 new channels discovered in Table A, and writing <u>over</u>, or correcting 5-10 existing channels not found in your memory.

USER CHANNELS are specifically field re-programmable, allowing <u>you</u> to add a custom lineup of popular SSB frequencies in order of their use. The 3 digit and 4 digit ITU channels are frozen, and you cannot alter them – only USER programmable channels may be written over.

Finally, tune in the time signals, channels 13-20, and check for reception. These signals are on the air 24 hours a day and provide a ready reference to make sure on board noise is not ruining reception. Be sure to turn off any Danfoss refrigeration controllers – they can block most strong signals with a Morse code type sound. Just be sure to turn the fridge back on afterward! Enjoy user programmable memory on your SSB and keep this list

handy. (See Table A, USER Channel list)

FCC Rule Part 80.13(b) requires all marine SSB installations to be licensed with call letters. Please contact Radio School at 714 549 5000 Monday to Thursday 10AM-4PM for info and/or assistance with licensing.

For ham radio licensing information please contact Radio School at 714 549 5000 Monday to Thursday 10AM-4PM.

For US Coast Guard Voice and Weather Fax schedule: go to <u>http://www.ominous-valve.com/uteworld.html</u> and look for a large text file called uscg-fax.txt.

HOW TO WRITE OVER ANY FREQUENCY

If there is a special frequency that you would like to program in your user channel list, IT IS EASY!

First, dial up a channel you may never need, like channels 59, 60, and 61 (Australia weather fax). Or you can write over a weather fax channel on the opposite coast! You can always write-back any channel you wish to restore, too! There are no limits on write-over's.

Next, consult the section of this document on programming a new frequency in the user channel list. This will allow you to easily write over any of the 1-160 channels that may not be as important as that new frequency you wish stored in user memory! USER CHANNELS are YOUR channels of choice, for easy recall and easy storage. Follow the instructions to customize your user channel list of popular channels!



Addendum to the M802 Quick Reference and Channel List

The following information is an update to the ITU simplex channels and User Channels listed in your M802 Quick Reference and Channel List booklet. Please refer to the following as the most current list; these channels are also part of the file that is programmed in your M802.

ITU Simplex Channels

4-1 4125.0 USB SOS 4S 4-2 4146.0 USB SHIP 4A 4-3 4149.0 USB SHIP 4B 4-4 4417.0 USB SHIP 4C 4-5 4065.0 USB MISS RVR 4-6 4089.0 USB MISS RVR 4-6 4089.0 USB MISS RVR 4-7 4116.0 USB MISS RVR 4-8 4408.0 USB MISS RVR 4-9 6-1 6215.0 USB SOS 6S 6-2 6224.0 USB SHIP 6A 6-3 6227.0 USB SHIP 6B 6-4 6230.0 USB DAYTIME 6-6 6209.0 USB MISS RVR 6-7 6212.0 USB MISS RVR 6-8 6510.0 USB MISS RVR 6-9 6513.0 USB MISS RVR 8-1 8291.0 USB SHIP 8A 8-2 8294.0 USB SHIP 8A
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8-7 8737.0 USB MISS RVR 8-8
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12-1 12290.0 USB SOS 12S
12-2 12353.0 USB SHIP 12A
12-3 12356.0 USB SHIP 12B
12-4 12359.0 USB SHIP 12C
12-5 12362.0 USB SHIP 12D
12-6 12365.0 USB SHIP 12E
12-7
12-8
12-9

16-1	16420.0	USB	SOS 16S
16-2	16528.0	USB	SHIP 16A
16-3	16531.0	USB	SHIP 16B
16-4	16534.0	USB	SHIP 16C
16-5	16537.0	USB	SHIP 16D
16-6	16540.0	USB	SHIP 16E
16-7	16543.0	USB	MISS RVR
16-8	16546.0	USB	MISS RVR
16-9			
<u>16-9</u> 18-1	18825.0	USB	SHIP 18A
	18825.0 18828.0	USB USB	SHIP 18A SHIP 18B
18-1			
18-1 18-2	18828.0	USB	SHIP 18B
18-1 18-2 18-3	18828.0 18831.0	USB USB	SHIP 18B SHIP 18C
18-1 18-2 18-3 18-4	18828.0 18831.0 18834.0	USB USB USB	SHIP 18B SHIP 18C SHIP 18D
18-1 18-2 18-3 18-4 18-5	18828.0 18831.0 18834.0 18837.0	USB USB USB USB	SHIP 18B SHIP 18C SHIP 18D SHIP 18E

сн	Freq (kHz)	Mode	Comment
18-8			
18-9			
22-1	22159.0	USB	SHIP 22A
22-2	22162.0	USB	SHIP 22B
22-3	22165.0	USB	SHIP 22C
22-4	22168.0	USB	SHIP 22D
22-5	22171.0	USB	SHIP 22E
22-6	22174.0	USB	SHIP 22F
22-7	22177.0	USB	SHIP 22G
22-8			
22-9			
25-1	25100.0	USB	SHIP 25A
25-2	25103.0	USB	SHIP 25B
25-3	25106.0	USB	SHIP 25C
25-4	25109.0	USB	SHIP 25D
25-5	25112.0	USB	SHIP 25E
25-6	25115.0	USB	SHIP 25F
25-7	25118.0	USB	SHIP 25G
25-8			
25-9			

o ICOM

Icom America, Inc. 2380 116th Ave NE Bellevue, WA 98004 425.454.7619

User-Channels

ser–Chai	nnels								Freq (kHz	:)		
	_	,						СН	RX	тх	Mode	Comment
Freq (kHz)						_		107	8131.0,	<-	USB	S-S 8131
H <u>RX TX</u>	Mode			Freq (kH	z)			108	8137.0	<-	USB	CARIB WX
2182.0 <-	USB	DISTRESS	СН	RX	тх	Mode	Comment	109	8152.0	<-	USB	CRUZHIMR
4125.0 <-	USB	SOS 4S	54	4316.0		USB	WXFX GLF	110	8146.0	<-	USB	CRUZ ALT
6215.0 <-	USB	SOS 6S	55	8502.0		USB	WXFX GLF	111	8164.0	<-	USB	CRUZ ALT
8291.0 <-	USB	SOS 8S	56	12788.0		USB	WXFX GLF	112	6227.0	<-	USB	CRUZHIMR
12290.0 <-	USB	SOS 12S	57	17144.1		USB	WXFX GLF	113	6224.0	<-	USB	CRUZ ALT
16420.0 <- 2670.0 <-	USB	SOS 16S	58	11120.1		USB	WXFX UAF	- 114	6230.0	<-	USB	CRUZ ALT
	.0 USB	USCG LCL USCG 424	59	10553.1		USB	WXFX AUS					
	.0 USB	USCG 601	60	11028.0		USB	WXFX AUS	- 115	8167.0	<-	USB	PANAMA
	.0 USB	USCG 816	61	13548.2		USB	WXFX NZL	- 116	8188.0	<-	USB	NW CARIB
1 13089.0 12242		USCG1205	62	5975.0		AM	BBC 5	- 117	12353.0 ₁	<-	USB	SHIP 12A
2 17314.0.16432		USCG1625	63	11835.0		AM	BBC 11		12356.0	<-	USB	SHIP 12B
3 2500.0	AM	WWV 2	64	15190.0		AM	BBC 15	119	12359.0	<-	USB	SHIP 12C
4 5000.0	AM	WWV 5	65	9755.0		AM	CBC NEWS	120	16528.0	<-	USB	SHIP 16A
5 10000.0	AM	WWV 10	66	15290.0		AM	V of A	121	16531.0	<-	USB	SHIP 16B
6 15000.0	AM	WWV 15	67	12133.5		USB	NPR INTL	122	16534.0	<-	USB	SHIP 16C
7 20000.0	AM	WWV 20	68	5547.0		USB	AIR EM 6	123	18825.0	<-	USB	SHIP 18A
3330.0	USB	CHU 3	69	8843.0		USB	AIR EM 8	124	18828.0	<-	USB	SHIP 18B
9 7335.0	USB	CHU 7	70	13300.0		USB	AIR EM13	125	22159.0	<-	USB	SHIP 22A
14670.0	USB	CHU 14	71	10493.0		USB	FEMA		22162.0	<-	USB	SHIP 22B
1 4369.0 4077		WLO 405	72	8971.0		USB	CGA 897		25100.0	<-	USB	SHIP 25A
	.0 USB	WLO 824	73	8983.0		USB	CGA 898		25103.0	<-	USB	SHIP 25B
	.0 USB	WLO 830	74	13270.0		USB	TWR WX E	129	3696.0	<-	LSB	BAHAMAS
13110.0,12263		WLO 1212	75	13282.0		USB	TWR WX W	130	3815.0	<-	LSB	W CARIB
13152.0,12305 17260.0,16378		WLO 1226	76	2638.0	<-	USB	S-S 2638	131	3820.0	<-	LSB	BAYof IS
17260.0 16378 17362.0 16480		WLO 1607 WLO 1641	77	4146.0	<-	USB	SHIP 4A	132	3856.0	<-	LSB	TACO 385
19773.0, 18798		WLO 1807	78	4149.0	<-	USB	SHIP 4B	- 133	3930.0	<-	LSB	
22804.0 22108		WLO 2237	79	4417.0	<-	USB	SHIP 4C	- 134	3964.0	<-	LSB	PR/VI WX EC WW 39
26151.0,25076		WLO 2503	80	4003.0	<-	USB	S-S 4003			-		
4405.0, 4113		KLB 417	81	4006.0	<-	USB	S-S 4006	- 135	3968.0	<-	LSB	SONRISA
2 8731.0, 8207	.0 USB	KLB 805	82	4009.0	<-	USB	S-S 4009	136	7158.0	<-	LSB	CARIBNET
3 13101.0 12254	.0 USB	KLB 1209	83	4012.0	<-	USB	S-S 4012	137	7163.0	<-	LSB	CARIB WX
17311.0 16429		KLB 1624	84	4015.0	<-	USB	S-S 4015	138	7185.0	<-	LSB	BARBADOS
2054.0	USB	WXFX AK	85	4018.0	<-	USB	S-S 4018	139	7197.0	<-	LSB	SPACIFIC
4298.0	USB	WXFX AK	86	4021.0	<-	USB	S-S 4021	140	7200.0	<-	LSB	TACO 720
8459.0	USB	WXFX AK	87	4024.0	<-	USB	S-S 4024	141	7238.0	<-	LSB	BAJA 723
12412.5	USB	WXFX AK	88	4027.0	<-	USB	S-S 4027	142	7250.0	<-	LSB	GORDO
4344.1	USB	WXFX PAC	89	4030.0	<-	USB	S-S 4030	143	7260.0	<-	LSB	BAJA 726
6451.1 8680.1	USB	WXFX PAC	90	4051.0	<-	USB	S-S 4051	144	7268.0	<-	LSB	EC WW 72
	USB	WXFX PAC	91	4060.0	<-	USB	S-S 4060	145	7270.0	<-	LSB	S ATLNTC
12784.1	USB USB	WXFX PAC WXFX PAC	92	6224.0	<-	USB	SHIP 6A	146	7285.0	<-	LSB	HAWAII A
22525.1	USB	WXFX PAC	93	6227.0	<-	USB	SHIP 6B	147	7290.0	<-	LSB	HAWAII P
9980.6	USB	WXFX HI	94	6230.0	<-	USB	SHIP 6C	148	7292.0	<-	LSB	FLORIDA
11088.1	USB	WXFX HI	95	6516.0	<-	USB	SHIP 6D	149	7294.0	<-	LSB	CHUBASCO
16133.1	USB	WXFX HI	96	6212.0	<-	USB	S-S 6212	150	14285.0	<-	USB	CA S PAC
4235.0	USB	WXFX ATL	97	8294.0	<-	USB	SHIP 8A	- 151	14300.0	<-	USB	HAM 1430
6338.6	USB	WXFX ATL	98	8297.0	<-	USB	SHIP 8B	- 152	14303.0	<-	USB	CA HI
9108.1	USB	WXFX ATL	99	8101.0	<-	USB	S-S 8101	- 152	14303.0	<-	USB	
12748.1	USB	WXFX ATL	100	8104.0	<-	USB	S-S 8104			<-		HAM SHIP
19534.1	USB	WXFX ATL	101	8107.0	<-	USB	S-S 8107	154	14325.0		USB	HUR'CANE
13503.1	USB	WXFX ATL	102	8110.0	<-	USB	S-S 8110		14330.0	<-	USB	GUNKHOLE
			103	8116.0	<-	USB	S-S 8116		14340.0	<-	USB	MANANA
			104	8119.0	<-	USB	S-S 8119		21325.0 <u> </u>	<-	USB	ATLANTIC
			105	8122.0	<-	USB	AMIGO		21390.0	<-	USB	HALO NET
			106	8125.0	<-	USB	S-S 8125	159	21402.0	<-	USB	PACIFIC

	Freq (ki	lz)		
СН	RX	тх	Mode	Comment
160	28400.0	<-	USB	HAM 2840