

## Four Number VHF Channels

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New VHF marine radios are now displaying four-digit channel numbers in place of the older two-digit channel number ending with the letter "A", to better harmonized US use of VHF maritime mobile band with international use of the band. Under this new four-digit channel numbering scheme, US two-digit channel numbers previously ending in "A" will now be designated by the same two-digit number, preceded by the digits "10".

The International Telecommunications Union rewrote their ITU Radio Regulations Table of transmitting frequencies in the VHF maritime mobile band in 2015, making allowances for administrations to make simplex use of duplex channels, just as the US had done fifty years earlier. Duplex channels use two frequencies, one designated for ship station use, the other for coast station use. Radios operating on a duplex channel cannot communicate with a radio operating simplex on that channel. Since both schemes use the same channel numbering, the Federal Communications Commission added the suffix "A" in 1965 to designate simplex use over the ship station transmit portion of the international duplex channel, to avoid confusion. The prefix "10" serves this same purpose.

The Coast Guard transmits urgent marine information broadcast (UMIB) safety warnings and communicates with mariners on VHF Channel 1022 (previously Channel 22A). A shipboard radio tuned to Channel 1022 (US mode) both transmits and listens on 157.1 MHz, and can receive UMIBs transmitted by the Coast Guard. A shipboard radio tuned to Channel 22 (international mode) transmits on 157.1 MHz and listens on 161.7 MHz, and cannot receive these safety warnings. In accordance with 33 CFR 26.03(d) <https://www.ecfr.gov/current/title-33/chapter-I/subchapter-A/part-26/section-26.03>, "The radiotelephone required by (this Bridge-to-bridge radiotelephone regulation) must be capable of transmitting and receiving on VHF FM Channel 22A (157.1 MHz)." This regulation applies to foreign ships in US waters as well as to US ships.

See <https://www.navcen.uscg.gov/us-vhf-channel-information> for further information.

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