

## FREQUENCY ALLOCATION IN THE 125-200 MHz BAND

<u>Frequency Band (MHz)</u>	<u>Allocated Use</u>	<u>FCC Rule Part</u>
123.5875-136.00	AERONAUTICAL MOBILE	Aviation (87)
136.00 - 137.00	AERONAUTICAL MOBILE	Aviation (87) Satellite Communications (25)
137.00 - 138.00	SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth)	Satellite Communications (25)
138.00 - 144.00	U.S.GOVERNMENT FIXED/MOBILE	
144.00 - 148.00	AMATEUR/AMATEUR SATELLITE(1)	Amateur (97)
148.00-149.90	FIXED/MOBILE MOBILE-SATELLITE	Satellite Communications (25)
149.90 - 150.05	MOBILE-SATELLITE (Earth-to-Space)	Satellite Communications (25)
150.05 - 150.80	U. S. GOVERNMENT FIXED/MOBILE	
150.80 - 152.855	FIXED/LAND MOBILE	Public Mobile (22), Personal Radio (95), Private Land Mobile (90)
152.855 - 154.00	LAND MOBILE	Auxiliary Broadcasting (74), Private Land Mobile (90)
154.00 - 156.2475	FIXED/LAND MOBILE	Maritime (80), Private Land Mobile (90), Personal Radio (95)
156.2475 - 174.00	MARITIME MOBILE FIXED/LAND MOBILE (2)(3)	Maritime (80), Private Land Mobile (90), Public Mobile (22), Auxiliary Broadcasting (74),
174.00 - 216.00	BROADCASTING BIOMEDICAL TELEMETRY DEVICES (4)	Broadcast Radio-TV (73), Auxiliary Broadcasting (74), Radio Frequency Devices (15)

(1) **Military VHF-High Band Bandplans:** The primary military -only bands in the VHF high band are 138.00-144.00 and 148.00-150.775. Basic spacing between channel is 25 kHz (USN/USAF). The Army uses 12.5 kHz spacing in their segments of the band. The primary communications mode is narrowband FM, but some AM is used by air units of the various services for tactical air-to-air comms.

(2) **Military VHF-High Band Bandplans:** Military communications can also be found in the following government band mixed in with various government agencies communications: 162.00-173.9875 MHz.

(3) **IFLOWS:** Per US13 footnote, the following frequencies (MHz) may be authorized for the purposes of transmitting hydrological and meteorological data: 169.4250, 169.4375, 169.4500, 169.4625, 169.4750, 169.4875, 169.5000, 169.5125, 169.5250, 170.2250, 170.2375, 170.2500, 170.2625, 170.2750, 170.2875, 170.3000, 170.3125, 170.3250, 171.0250, 171.0375, 171.0500, 171.0625, 171.0750, 171.0875, 171.1000, 171.1125, 171.1250, 171.8250, 171.8375, 171.8500, 171.8625, 171.8750, 171.8875, 171.9000, 171.9125, 171.9250.

(4) **FCC Rule Section 15.241 Operation in the band 174-216 MHz:**

(a) Operation under the provisions of this section is restricted to biomedical telemetry devices.

(b) Emissions from the device shall be confined within a 200 kHz band which shall lie wholly within the frequency range of 174-216 MHz.

(c) The field strength of any emissions radiated within the specified 200 kHz band shall not exceed 1500 microvolts/meter at 3 meters. The field strength of emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed 150 microvolts/meter at 3 meters. The emission limits in this paragraph are based on measurement instrumentation employing an average detector. The provisions in Sec. 15.35 for limiting peak emissions apply.

## KNOWN TRANSMITTERS

### **Pocahontas Co. Emergency Svc.**

155.295 MHz, 155.340 MHz, 155.400 MHz,  
155.595 MHz, 155.970 MHz

*Activity on these frequencies will be infrequent, but very strong.*

### **Multi-Use Radio Service (MURS)**

151.820 MHz, 151.880 MHz, 151.940 MHz,  
154.570 MHz, 154.600 MHz

*Activity on these frequencies will be very intermittent and very weak.*

### **NOAA Weather Radio**

162.400 MHz, 162.425 MHz, 162.475 MHz,  
162.500 MHz, 162.525 MHz, 162.550 MHz

These transmitters are active at all times.  
162.425 MHz will be the strongest signal.

## TV Frequencies

<u>TV Channel#</u>	<u>BAND (MHz)</u>	<u>VIDEO (MHz)</u>	<u>CHROMA (MHz)</u>	<u>AUDIO (MHz)</u>
7	174-180	175.25	178.8295	179.75
8	180-186	181.25	184.8295	185.75
9	186-192	187.25	190.8295	191.75
10	192-198	193.25	196.8295	197.75
11	198-204	199.25	202.8295	203.75