The Radio Frequency Spectrum: Wavelength and Band Usage

Source: Encyclopaedia Britannica, Inc.
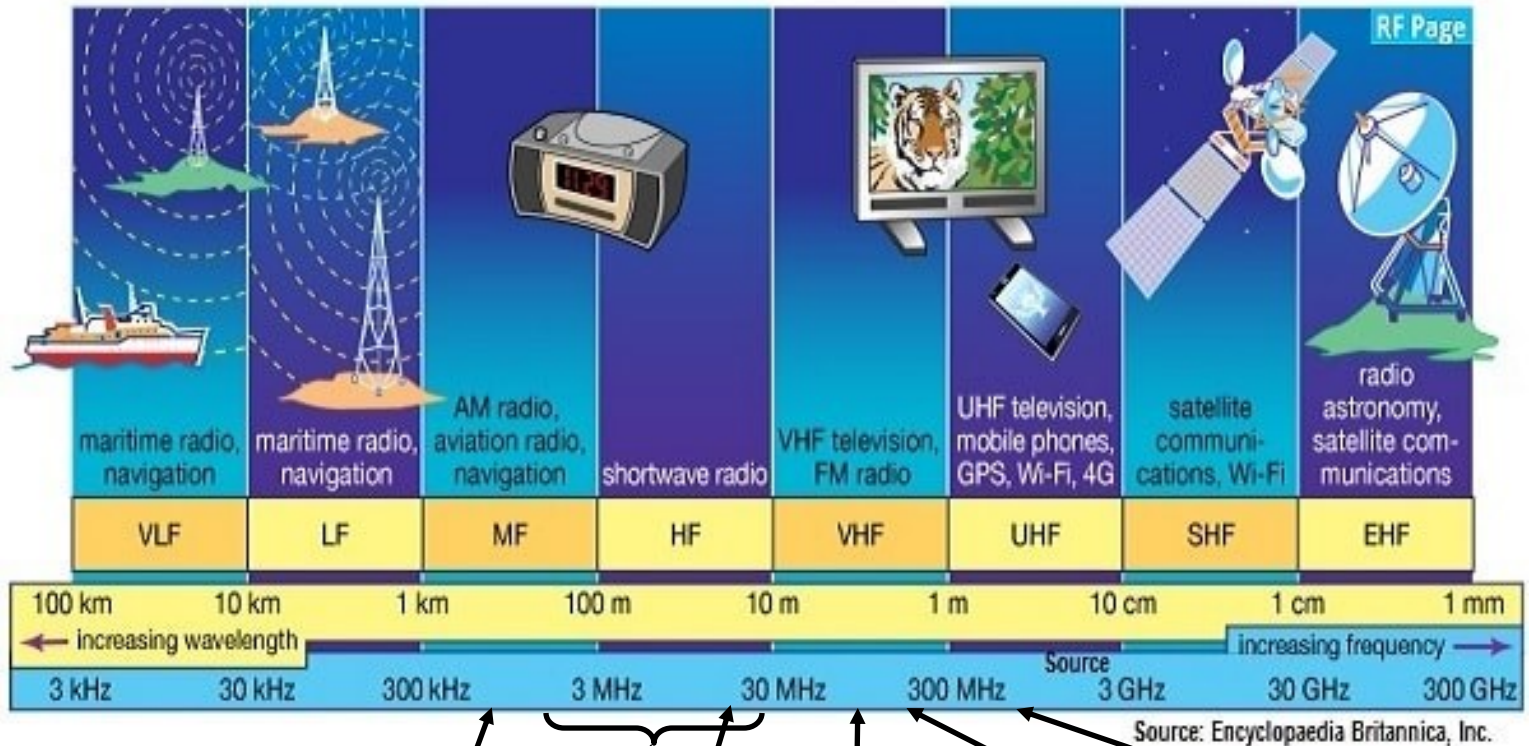
KOMO 1000 = 1000 kHz = 1 MHz
(MF="Medium Frequency" range)
(Commercial **AM radio band** is here)

Amateur HF,
("High Frequency", 10 Bands, 1.8 MHz to 29.7 MHz)

CB radio, about 27 MHz
(Top of HF, "High Frequency" range, is at 30 MHz)

KLOI Lopez Island = 102.9 MHz ...
(Commercial **FM radio band** is here.
VHF="Very High Frequency." Typical TV channels are in the VHF range too)

2 meters = 145 MHz
Heavily used **Technician class** and higher VHF **2m band**: 144 MHz to 148 MHz

70 cm = 0.7 meter = 429 MHz
(several questions mention this UHF frequency) Many **Technician class** privileges in the **70cm band**, 420 MHz to 450 MHz

Wavelength and Frequency calculation examples:

$$f \text{ (MHZ)} \times \lambda \text{ (Meters)} = 300$$

Divide 300 by wavelength in meters to get frequency in MHz
Example: divide 300 by 6 meters to get 50 MHz

Divide 300 by frequency in MHz to get wavelength in meters
Example: divide 300 by 30 MHz to get 10 meters