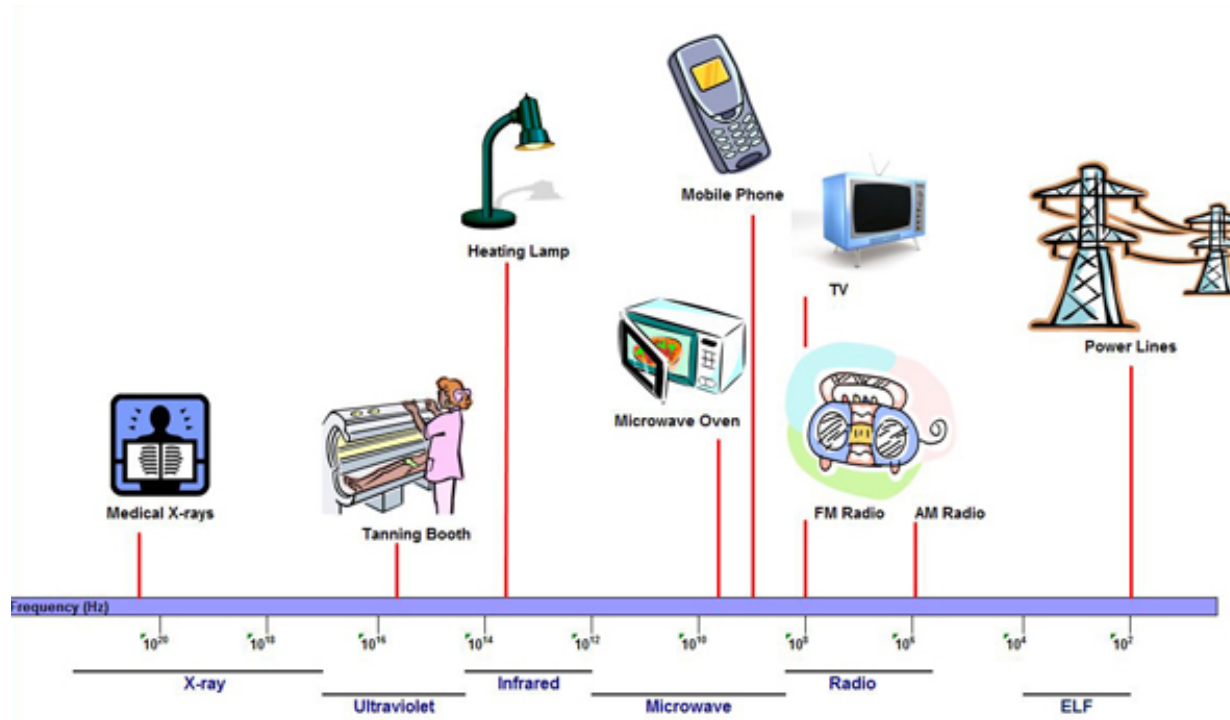
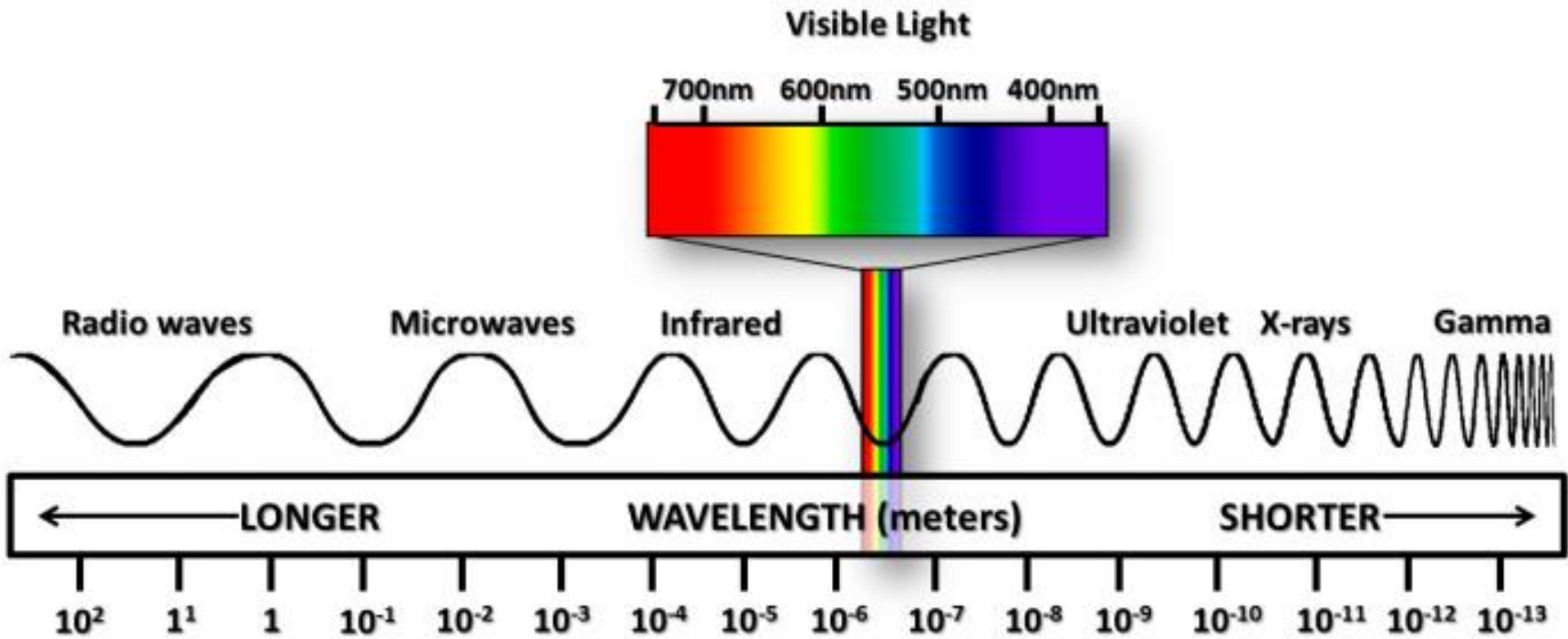


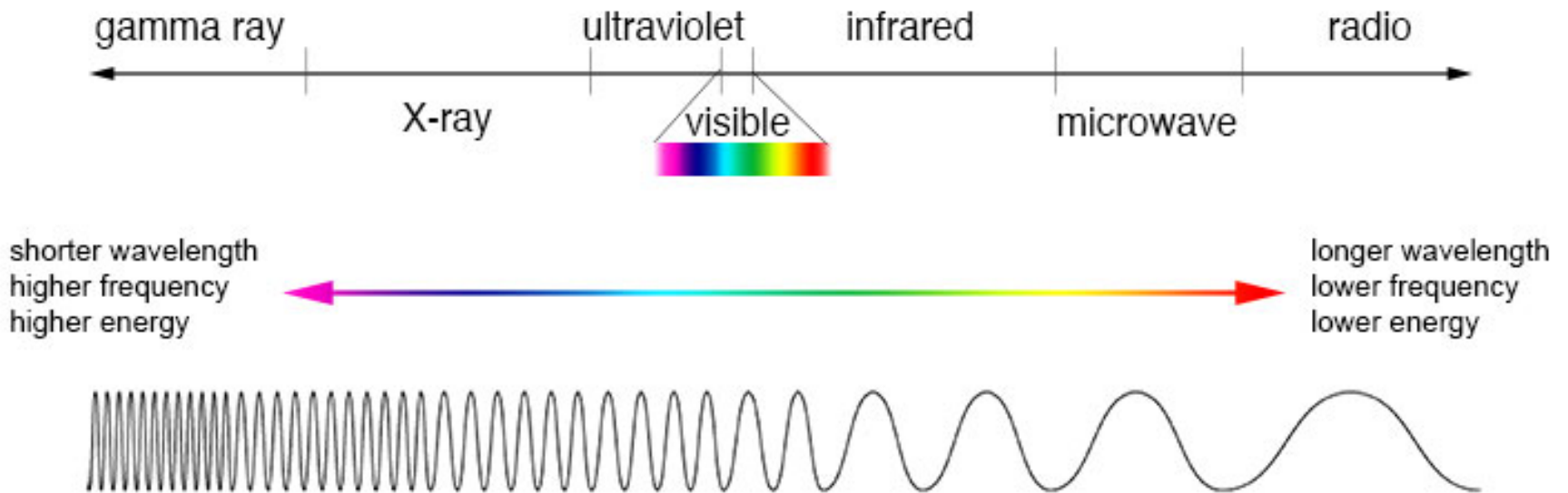
# Electromagnetic Spectrum



Humans utilize the interaction between matter and energy.



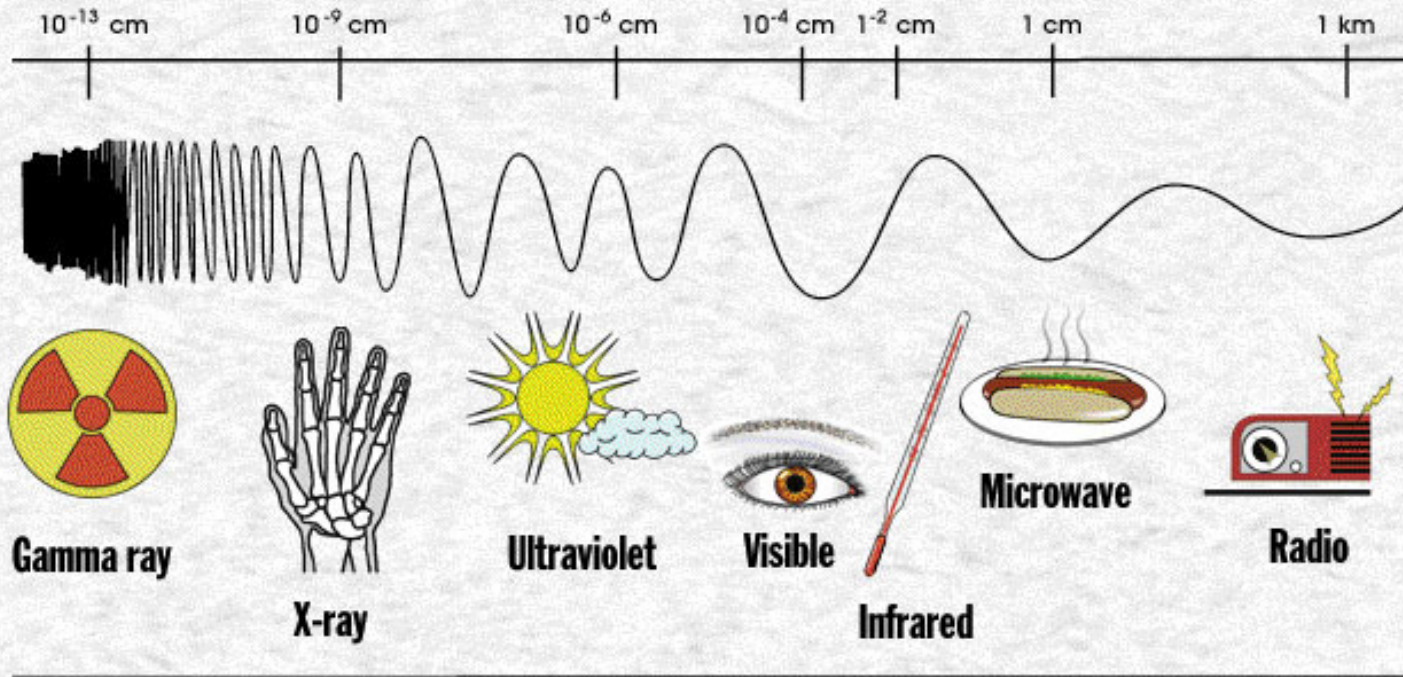
Source: Climate Science Investigations, NASA ([www.csi.fsu.edu/NASA](http://www.csi.fsu.edu/NASA))



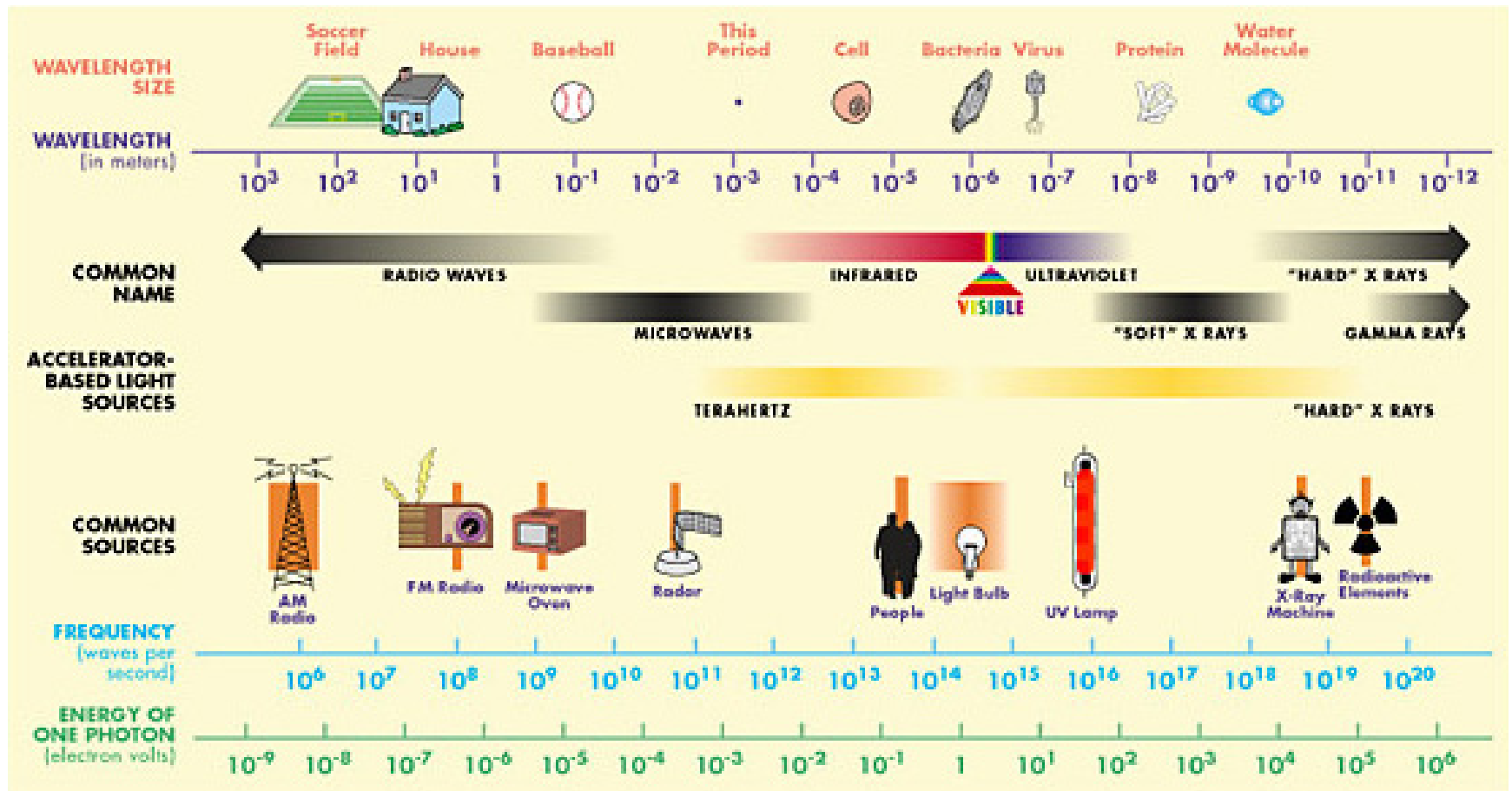
Source: [imagine.gsfc.nasa.gov](http://imagine.gsfc.nasa.gov) (Imagine the Universe - NASA)

<http://imagine.gsfc.nasa.gov/science/toolbox/emspectrum1.html> - This page has informational text related to the Electromagnetic Spectrum

# The Electromagnetic Spectrum



Source: NASA, Langley Research Center



Source: [www.cio.noaa.gov](http://www.cio.noaa.gov) (National Oceanic and Atmospheric Administration)

# US Government: Radio Wave Allocations

A view of the complexity of wave science.

## UNITED STATES FREQUENCY ALLOCATIONS THE RADIO SPECTRUM

### RADIO SERVICES COLOR LEGEND

- AERONAUTICAL MOBILE
- INTER-SATELLITE
- RADIO-ASTRONOMY
- AERONAUTICAL MOBILE SATELLITE
- LAND MOBILE
- RADIO-TERRESTRIAL SATELLITE
- AERONAUTICAL RADIOAGNATION
- LAND MOBILE SATELLITE
- RADIOLOGICAL
- WIRELESS
- RADIOLOCATION/SATELLITE
- WIRELESS SATELLITE
- WIRELESS MOBILE SATELLITE
- RADIOAGNATION
- WIRELESS MOBILE
- RADIOAGNATION SATELLITE
- BROADCASTING
- WIRELESS MOBILE SATELLITE
- BROADCASTING SATELLITE
- BROADCASTING SATELLITE
- METEOROLOGICAL SCS
- SPACE ORIENTATION
- EARTH-ORBITATION SATELLITE
- METEOROLOGICAL SATELLITE
- SPACE RESEARCH
- FIXED
- MOBILE
- STANDARD-FREQUENCY AND TIME SIGNAL
- FIXED SATELLITE
- MOBILE SATELLITE
- STANDARD-FREQUENCY AND TIME SIGNAL SATELLITE

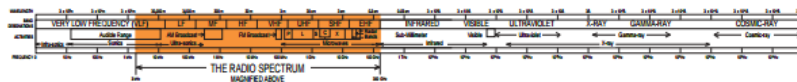
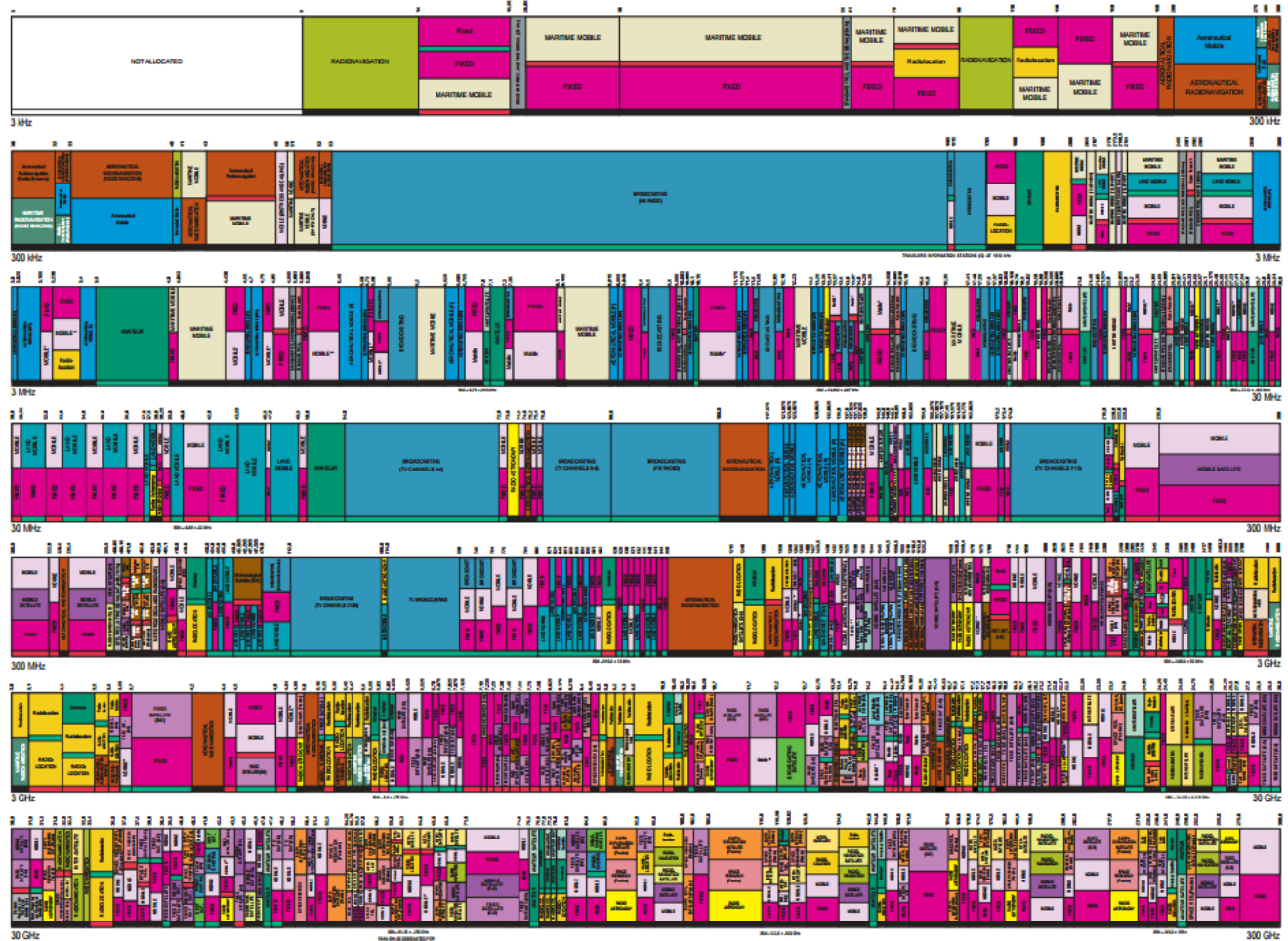
### ACTIVITY CODE

- GOVERNMENT EXCLUSIVE
- GOVERNMENT/NON-GOVERNMENT SHARED
- NON-GOVERNMENT EXCLUSIVE

### ALLOCATION USAGE DESIGNATION

SERVICE	EXAMPLE	DESCRIPTION
Primary	Fixed	Capital Letter
Secondary	Mobile	1st Capital with lower case letters

This chart is a graphic representation of the Table of Frequency Allocations used by the FCC and other Federal agencies in administering radio frequency spectrum. It is not intended to be used as a legal document. For more information on the FCC's role in spectrum management, visit [www.fcc.gov](http://www.fcc.gov). The FCC is an Equal Opportunity Provider. This chart is intended to be used as a general reference only.



PLEASE NOTE THE SPECIALIZED USES FOR THE SERVICES IN THE ABOVE TABLES ARE NOT NECESSARILY THE SAME AS THE ACTUAL ALLOCATIONS IN THE FCC TABLES.

# It's Everywhere!

