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Frequency bands: can be listed as:

VLF	3 - 30 KHz	(Very Low Frequency)
LF	30 K - 300 KHz	(Low Frequency)
MF	300 - 3000 KHz	(Medium Frequency)
HF	3 - 30 MHz	(High Frequency)
VHF	30 - 300 MHz	(Very High Frequency)
UHF	300 - 3000 MHz	(Ultra High Frequency)
SHF	3G - 30 GHz	(Super High Frequency)
EHF	30 - 300 GHz	(Extremely High Frequency)

The commercial usage of the frequency bands is congested with many applications. The following table shows some of these applications.

(2)

Navigation : 6-14 KHz and 90-110 KHz, \downarrow gives 107 channels

AM radio : 540-1600 KHz (each station has 10 KHz band)

FM radio : 88-108 MHz (200 KHz band) = 100 channels

Television : 54-88 MHz and 174-890 MHz (6 MHz band)

Cellular phone 2G (GSM 900) : 890-915 MHz uplink

935-960 MHz downlink.

200 KHz bandwidth for each channel. = 124 channels

Cellular phone 2G (GSM 1900) : 1710-1785 MHz uplink

1805-1880 MHz downlink

providing 374 channels.

Each channel is 200 KHz.

Cellular phone 3G : 1885-2025 MHz uplink

2110-2200 MHz downlink

Cellular phone 4G : 700-2600 MHz.

Cellular phone 5G : 600 MHz - 6 GHz and 24-86 GHz.