

# THE ELECTROMAGNETIC SPECTRUM

SELF DC    ELF 3Hz    VLF 30KHz    LF/ MF/ HF/ VHF/ UHF 30KHz    SHF 3GHz    EHF 5GHz 300GHz 430-750THz    30PHz    3EHZ    300EHZ



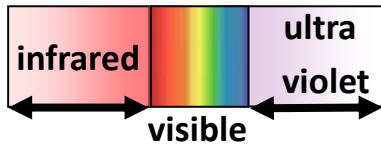
wavelength

$$f \text{ (frequency)} = C \text{ (speed of light)} / \lambda \text{ (wavelength)}$$



geomagnetic & sub ELF sources    extremely low frequency    very low frequency    radio frequency spectrum

**microwaves**



x-rays    gamma cosmic rays

## EMF Sources

												
earth & subways	AC power	CRT monitors	TV	cell phones	cell towers	microwave ovens	WiFi wireless smart meters	satellites baby monitors cordless phones		sunlight	medical x-rays	radioactive sources

Gigahertz (GHz) 10-9    Terahertz (THz) 10-12    Petahertz (PHz) 10-15    Exahertz (EHz) 10-18    Zetahertz (ZHz) 10-21    Yotahertz (YHz) 10-24