

Electromagnetic Spectrum Assessment Questions

(Online module at http://cimss.ssec.wisc.edu/satmet/modules/3_em_radiation/emr-1.html)

- 1) How can moving a car up or back a few meters make a difference to radio reception?

- 2) Arrange the following order of increasing energy:
Visible radiation, Gamma Rays, X-Rays, and Radio waves.

- 3) Radiation theory starts with the fundamental law that...

- 4) What is Kirchhoff's Law?

- 5) Name the 3 main spectral channels (and wavelengths) that satellite radiometers report data from: include the wavelengths.

- 6) Radiant Energy is conserved when it passes through the atmosphere but it can change form. What are the three main physical processes that take place when radiant energy interacts with an object: