

The Sun does not rotate uniformly
The apparent rotation can vary
from 25-33 days.

Observable sunspots vary in an 11-year cycle:

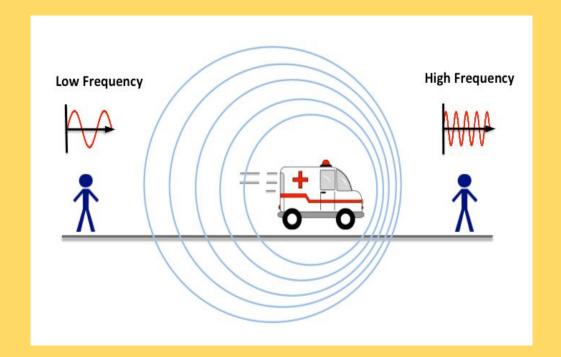
- solar maximum= most sunspots
- Solar minimum= least sunspots

Solar cycle video

The Doppler Effect:

the perceived change in wavelength of a wave that is emitted from a source that is moving away or toward an object.

The Doppler Effect

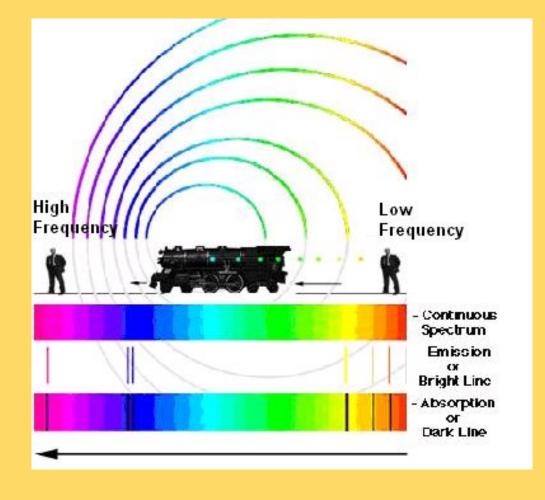


- Longer wavelength when object is moving away from you
- Shorter wavelength when object is moving toward you

Light waves behave similarly to sound waves in this regard

Blue shift: object is moving toward you

Red shift: object is moving away from you



In astronomy, The doppler effect is used to determine whether a star or other body in space is moving away from or toward Earth

