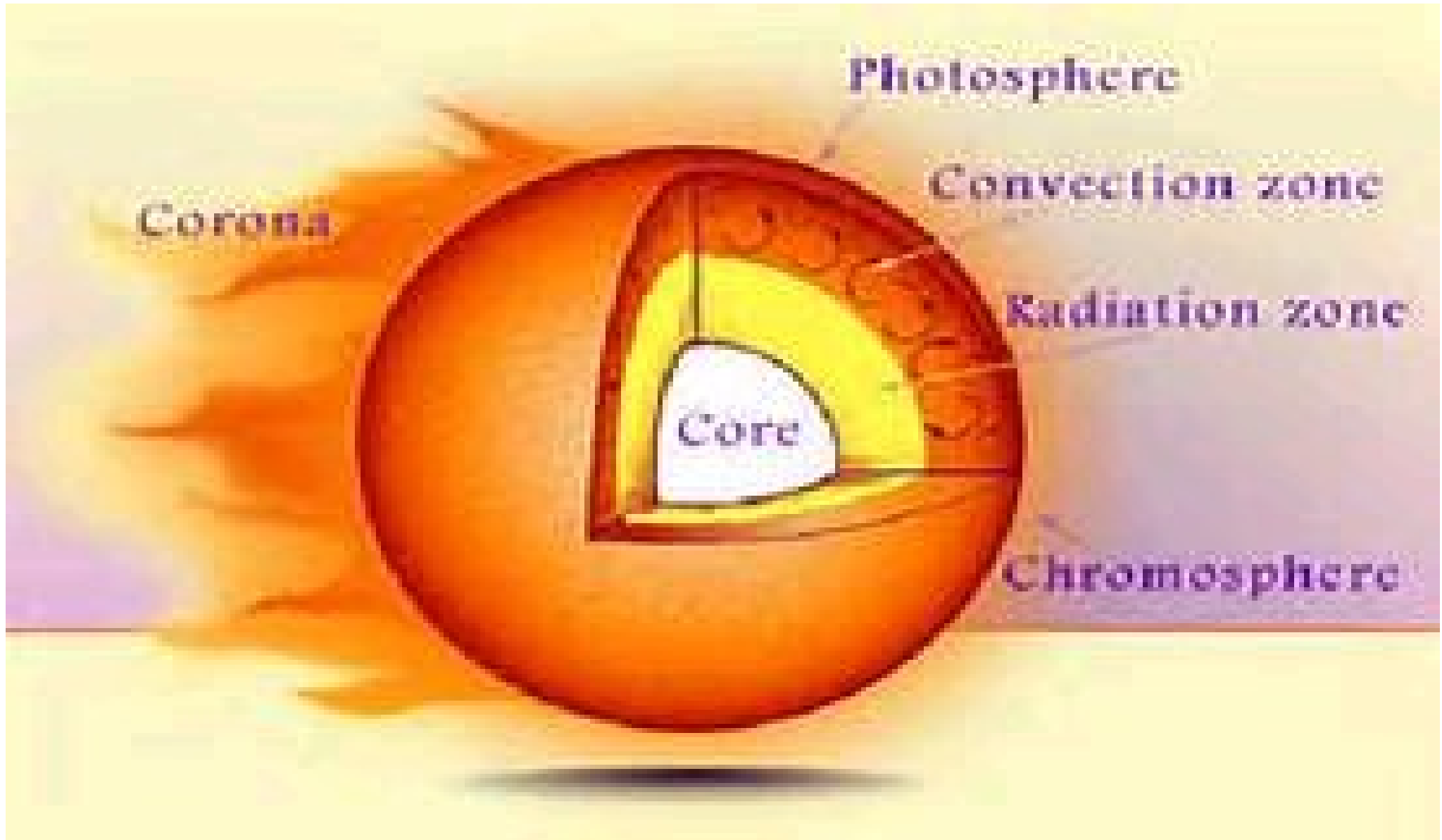
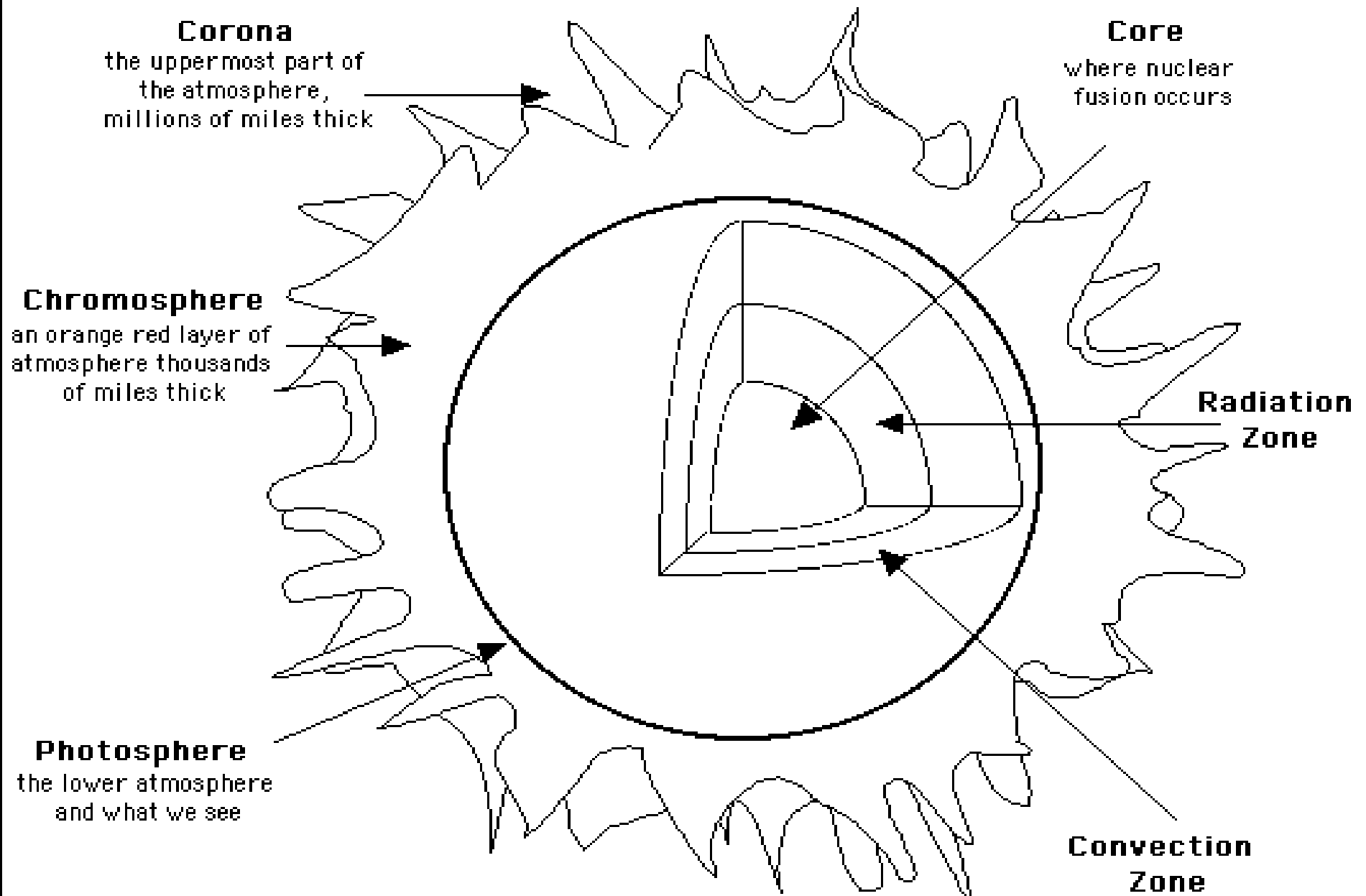


# The SUN



# Structure of the Sun



# Sun's layers

- Core
  - Hydrogen fusion massive amount of energy released
- Radiative Zone- energy moves outward from the core outward
- Convective Zone- heat transferred from the inner part of the Sun to the out part of the Sun
- Photospher- Part of the sun we can see
- Chromosphere- lower atmosphere of the Sun
- Corona- upper part of the Sun's atmosphere

# •Solar Ejections

- Charged Particles shot off the Sun into space
- Solar ejections include:
  - Coronal Mass Ejections
  - Solar Flares
  - Prominences

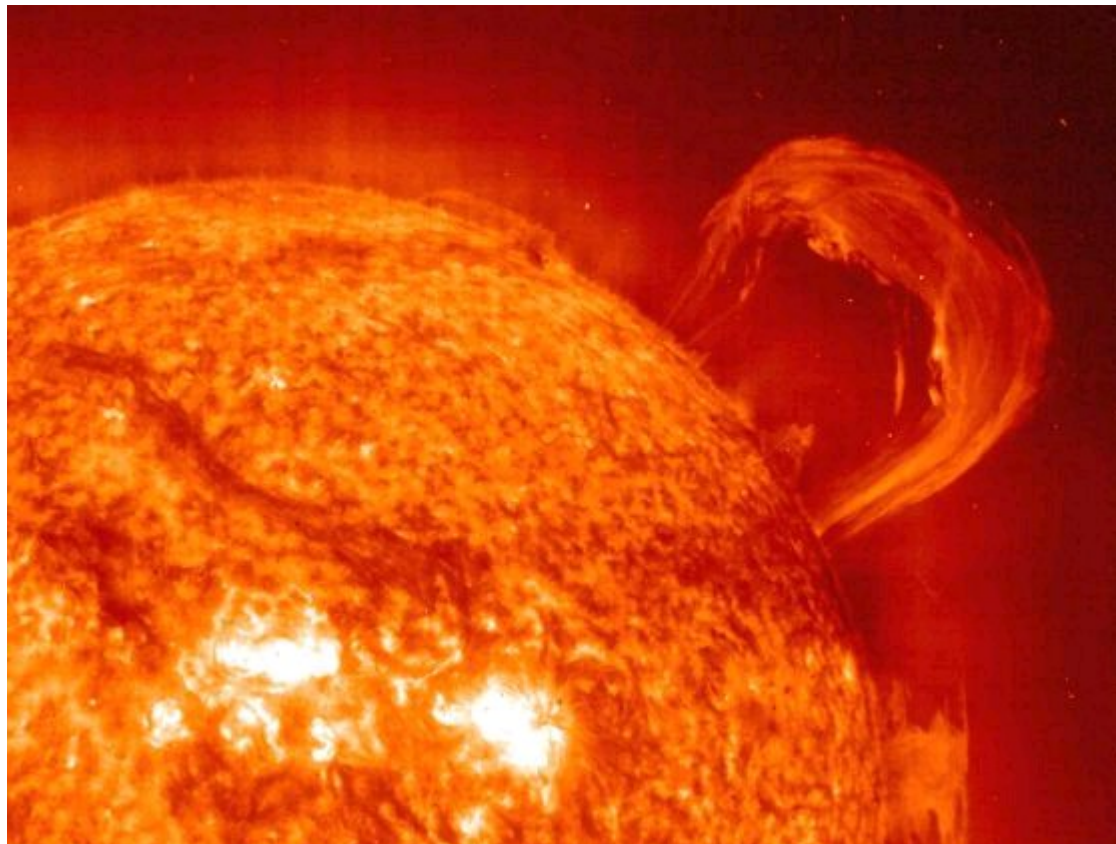
# Prominence

- Huge arches that reach high above the Sun's surface
- The magnetic fields that cause sunspots also create prominences.



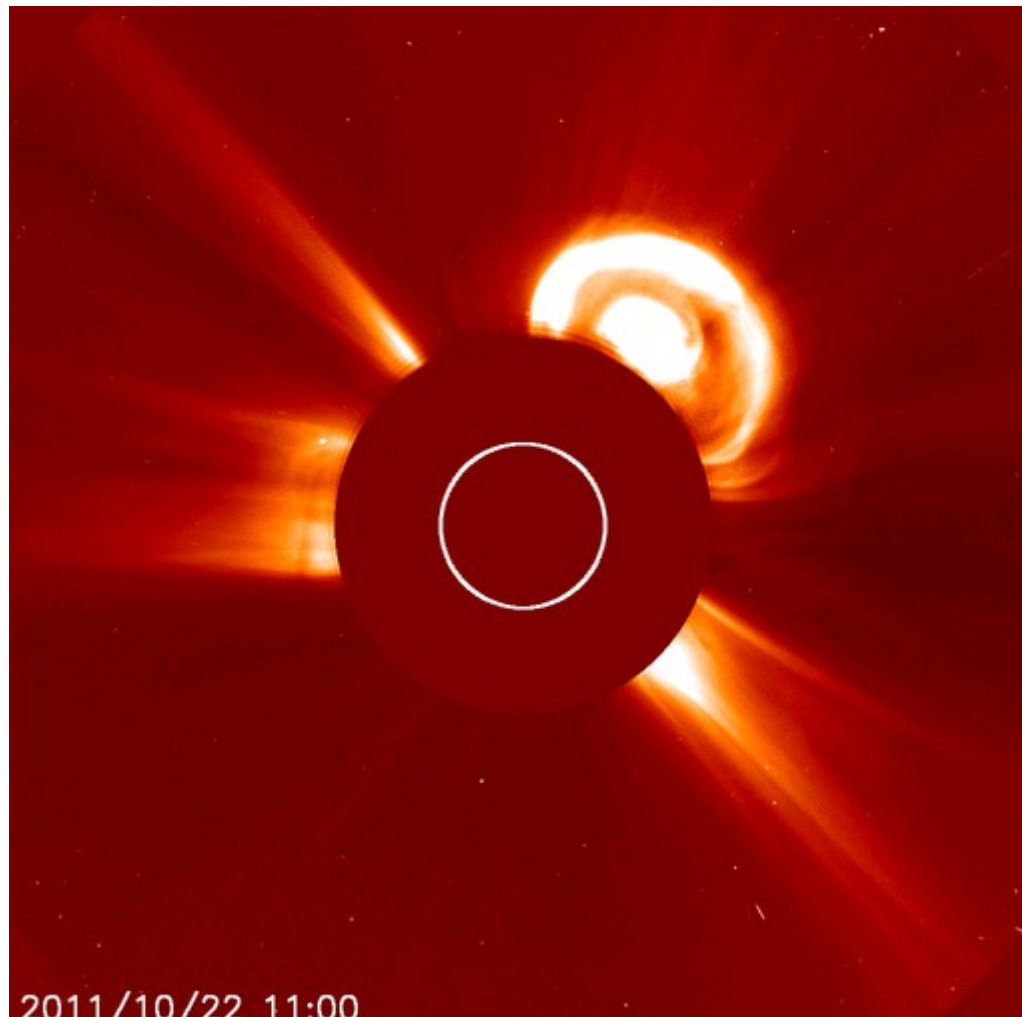
# Solar Flare

- Most violent of all solar disturbances
- Sudden outward eruption of electrically charged particles



# Coronal Mass Ejections

- Charged particles from the corona are shot off into space



# Auroras

- The interaction between the Earth's magnetosphere and the charged particles from the solar wind.





# Sunspot Cycle

- An 11 year cycle of increasing and decreasing number of sunspots.

