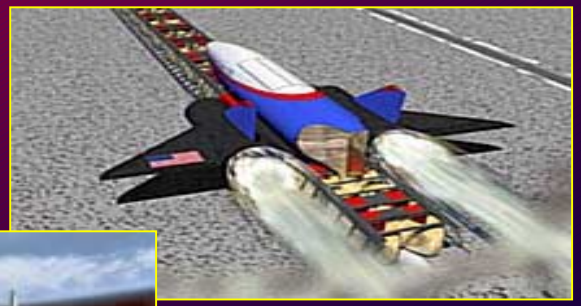
Sun-Earth Connection:

A New Perspective

Main Areas Of Research

Earth Science

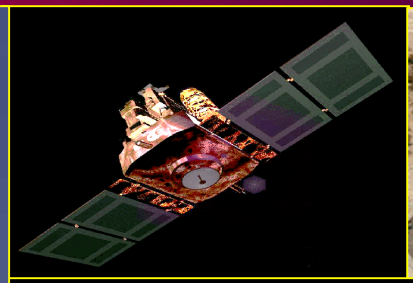
Aerospace Technology



Space Science

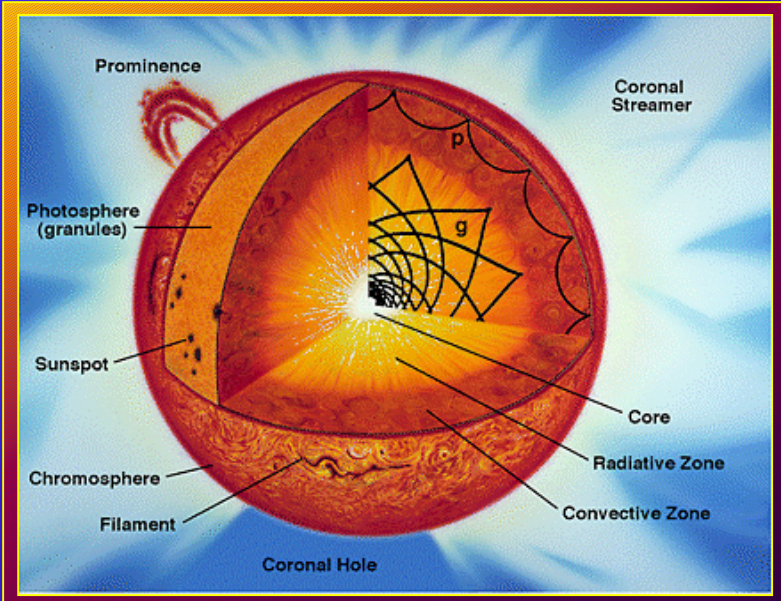
Human Exploration And Development Of Space

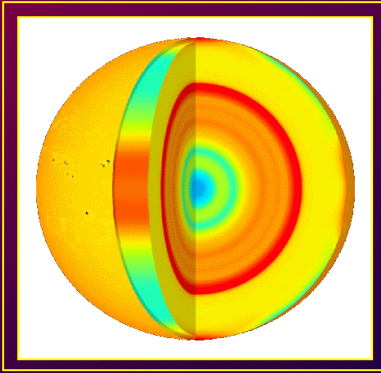
Importance of Space Technology



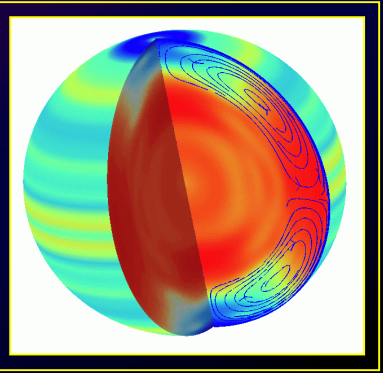
Better Observation Of The Sun And Earth

Sun's Internal Structure

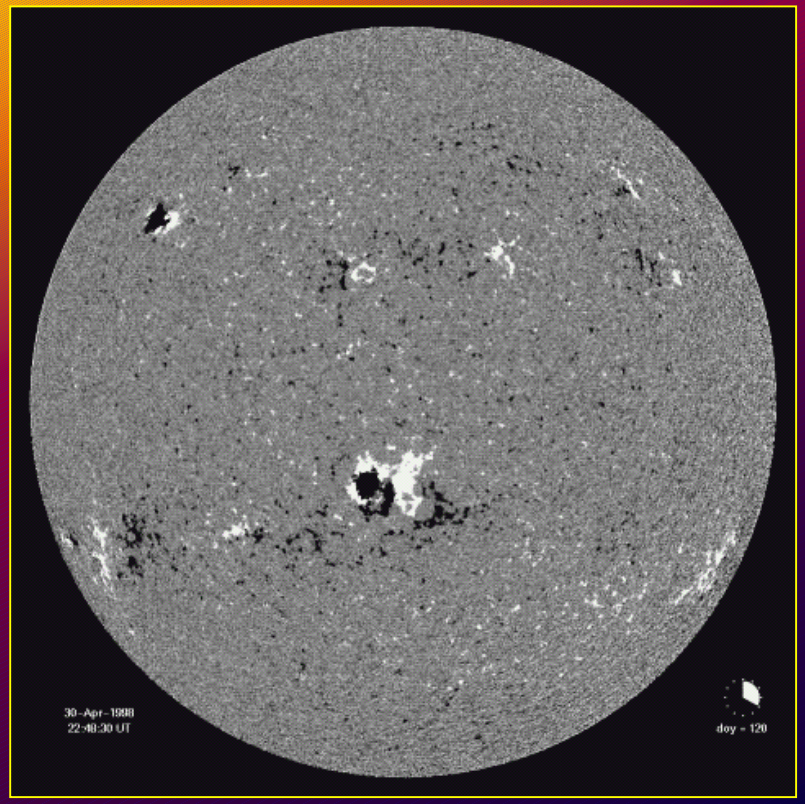


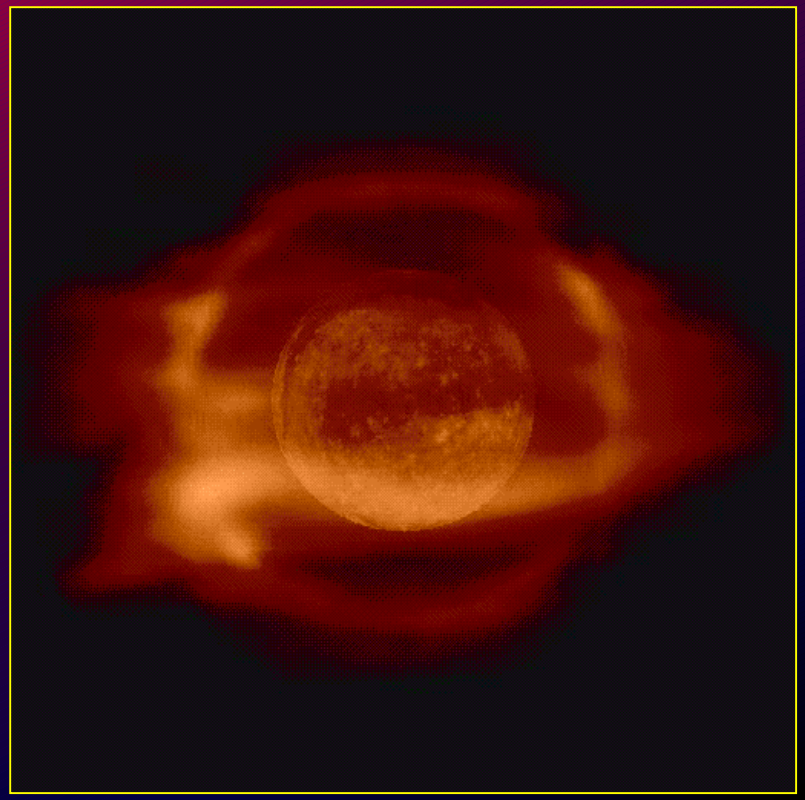


The globes to the left and right represent variations in temperature and rotation of the Sun based on MDI data.



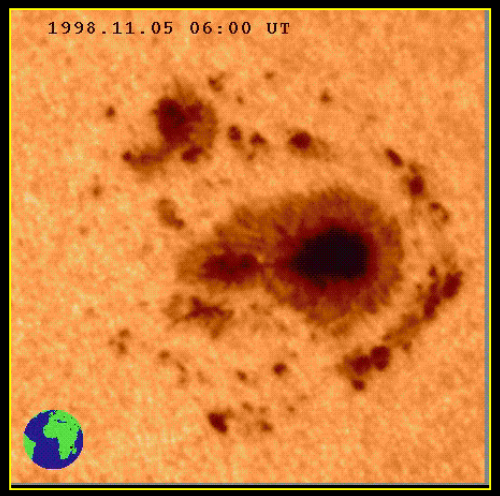
Surface And Atmosphere Of The Sun

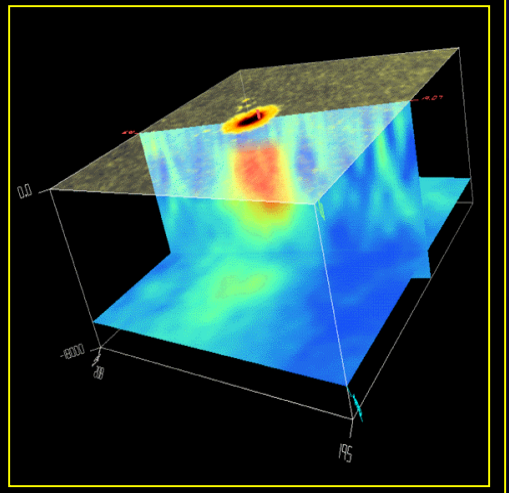


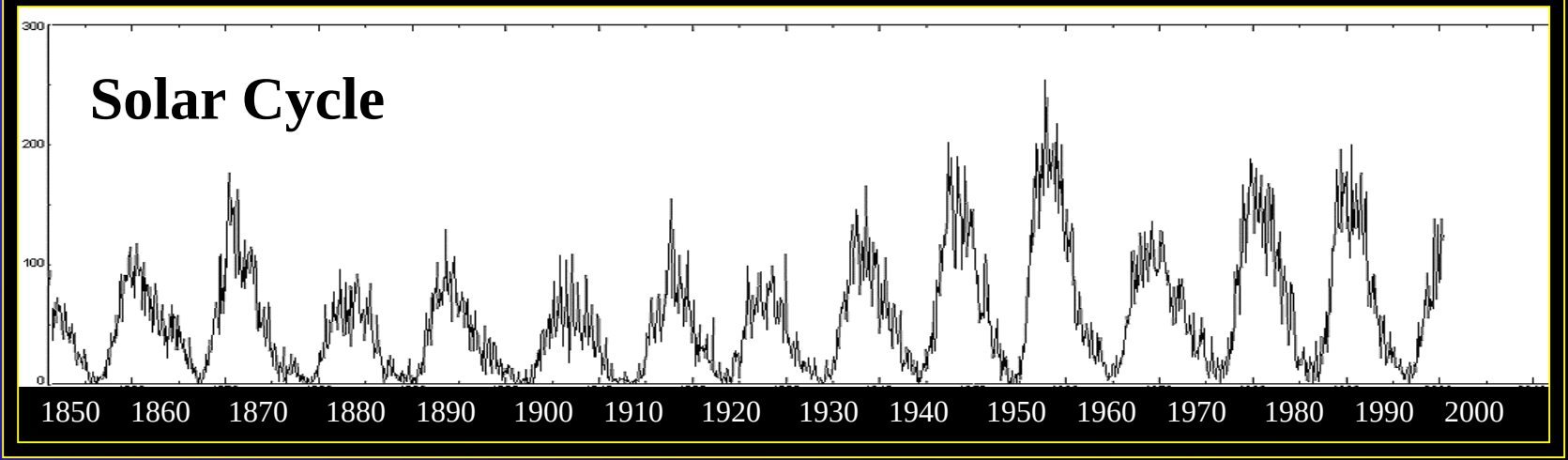


Sunspots

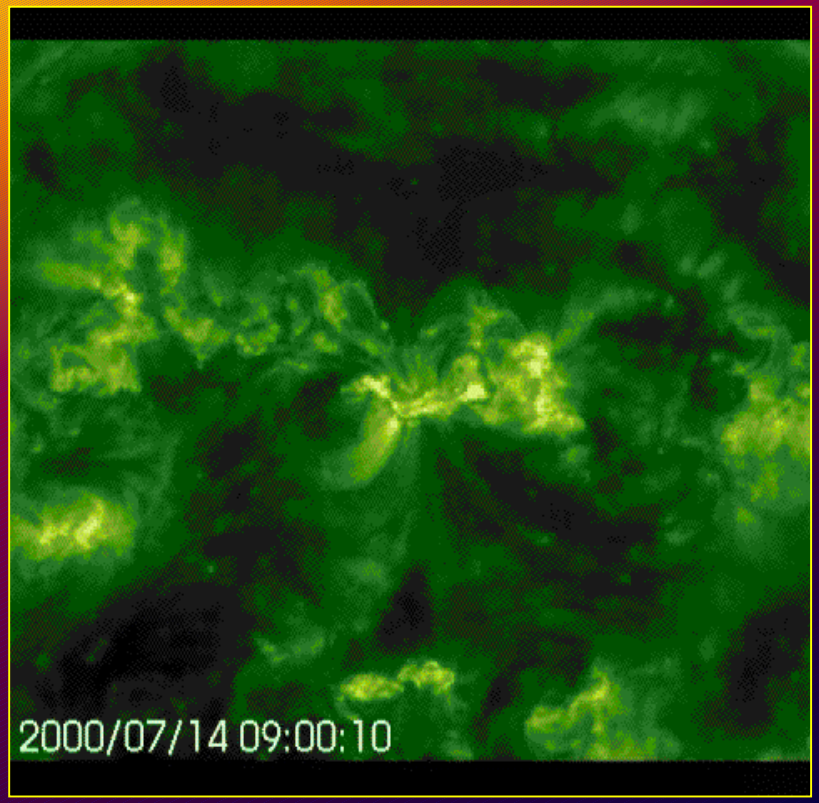
Sun's Magnetic Field	Sunspots	Sunspot Structure

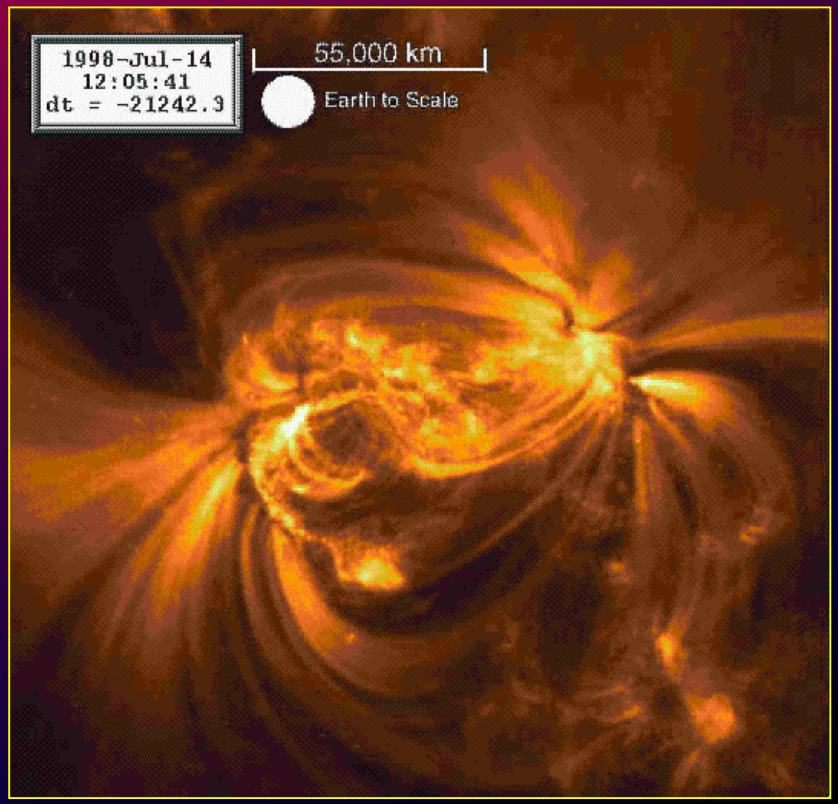




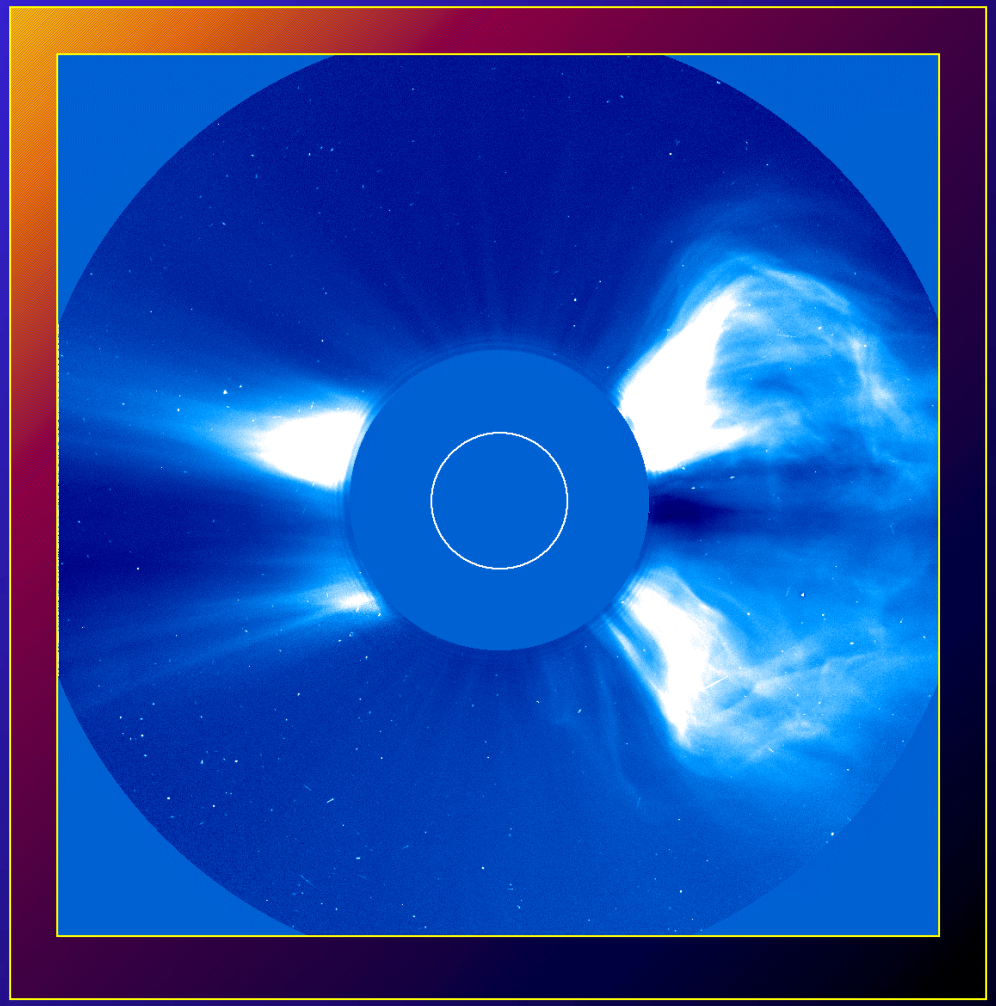


Solar Flares

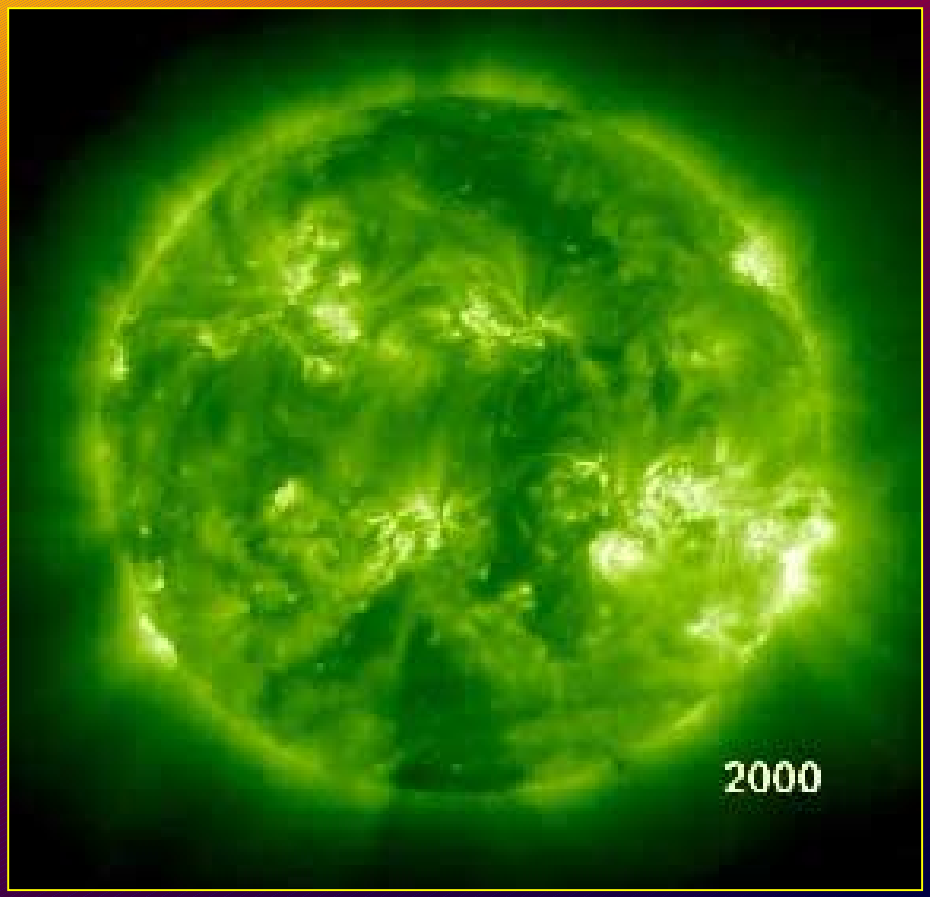


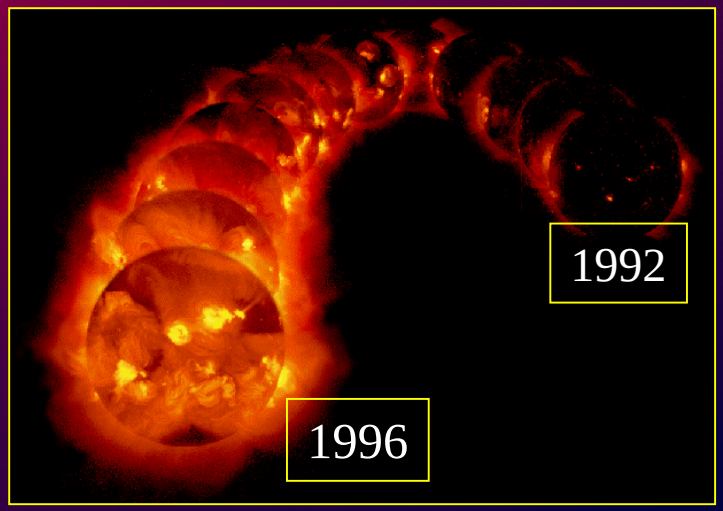


Coronal Mass Ejections



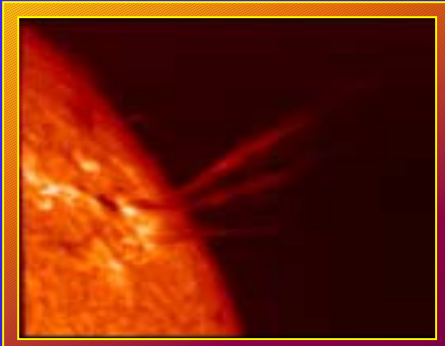
Solar Cycles



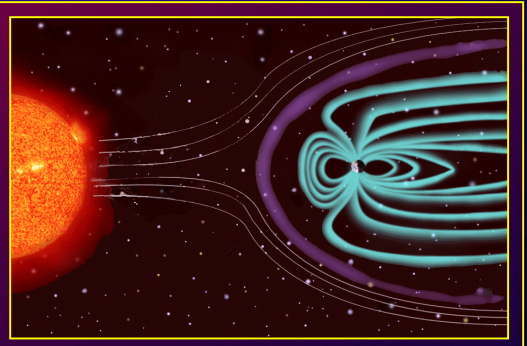


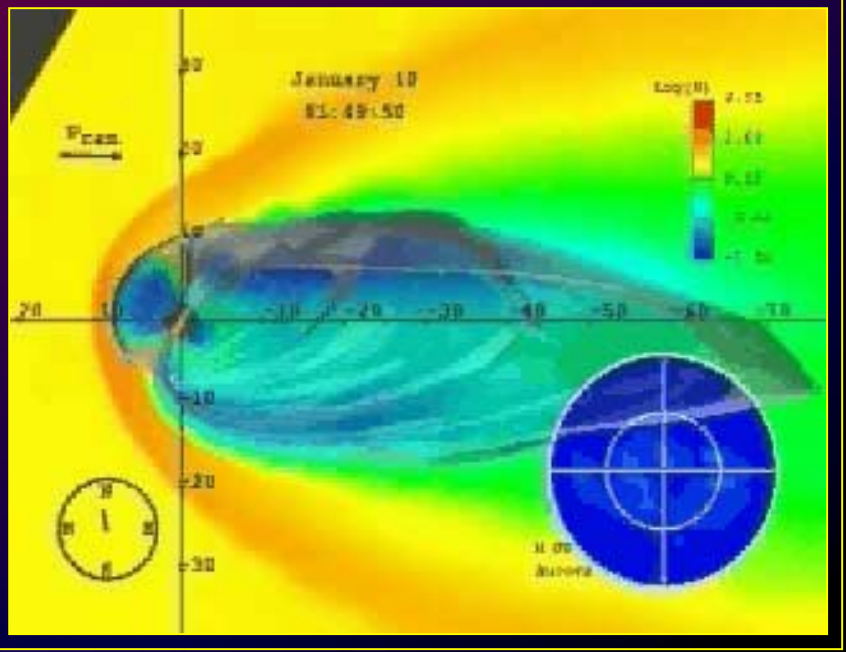
Minimum ▼ **Maximum** ▼

Solar Wind

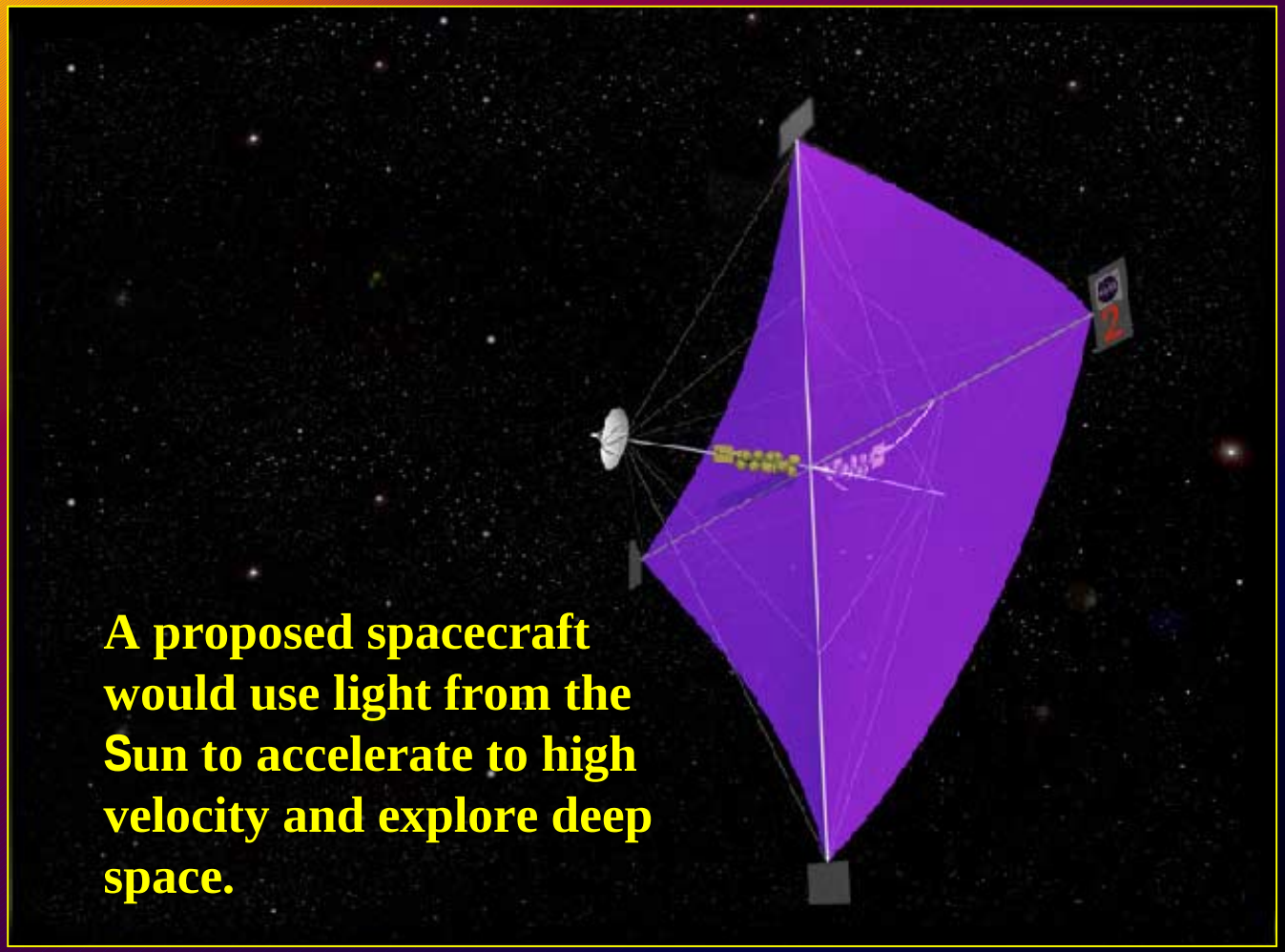


The solar wind consists of plasma that is continually being released from the Sun.



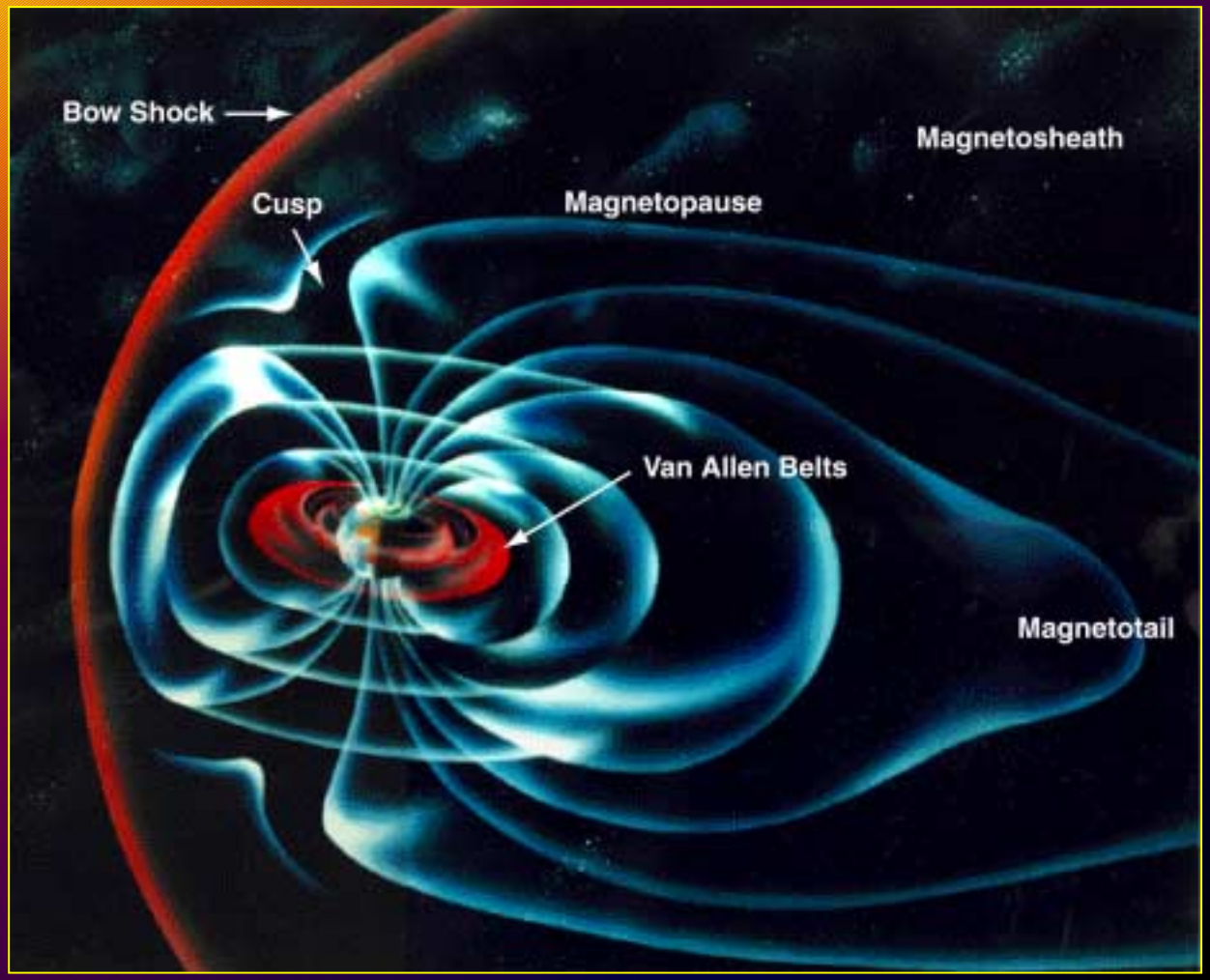


Solar Sail Interstellar Exploration

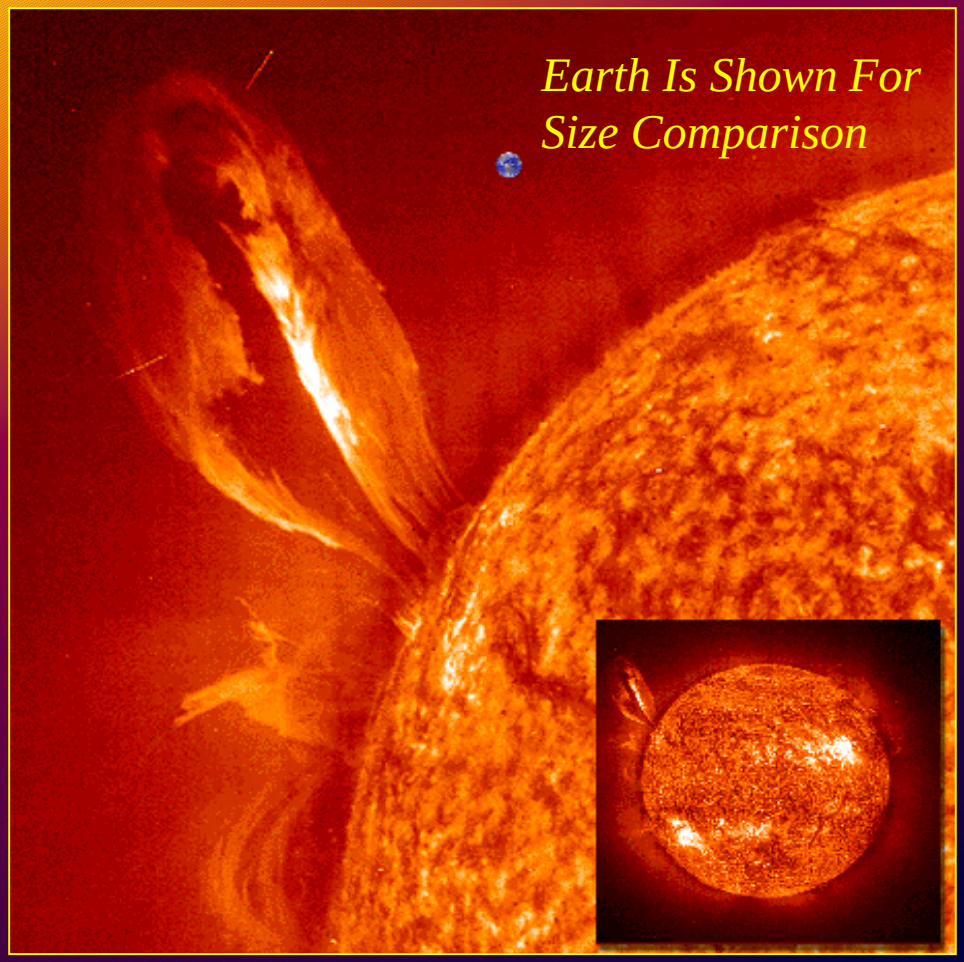


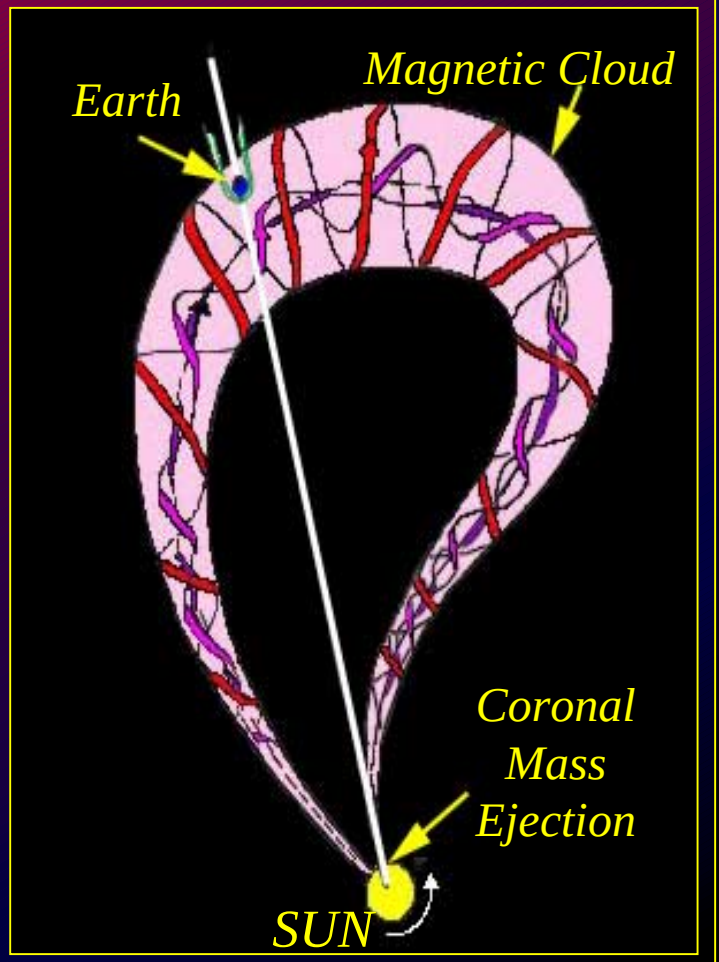
A proposed spacecraft would use light from the Sun to accelerate to high velocity and explore deep space.

Earth's Magnetosphere



Coronal Mass Ejections: Crossing the Earth's Path

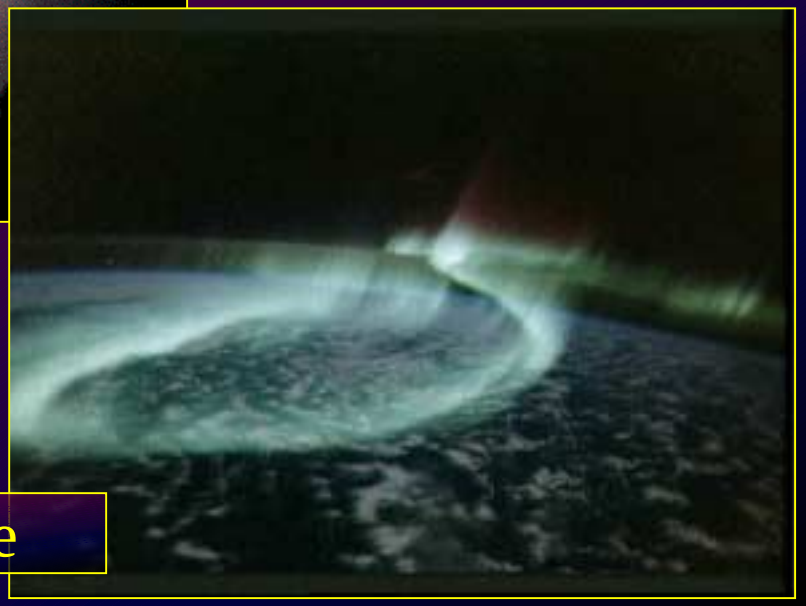




Coronal Mass Ejections: Impact On Earth

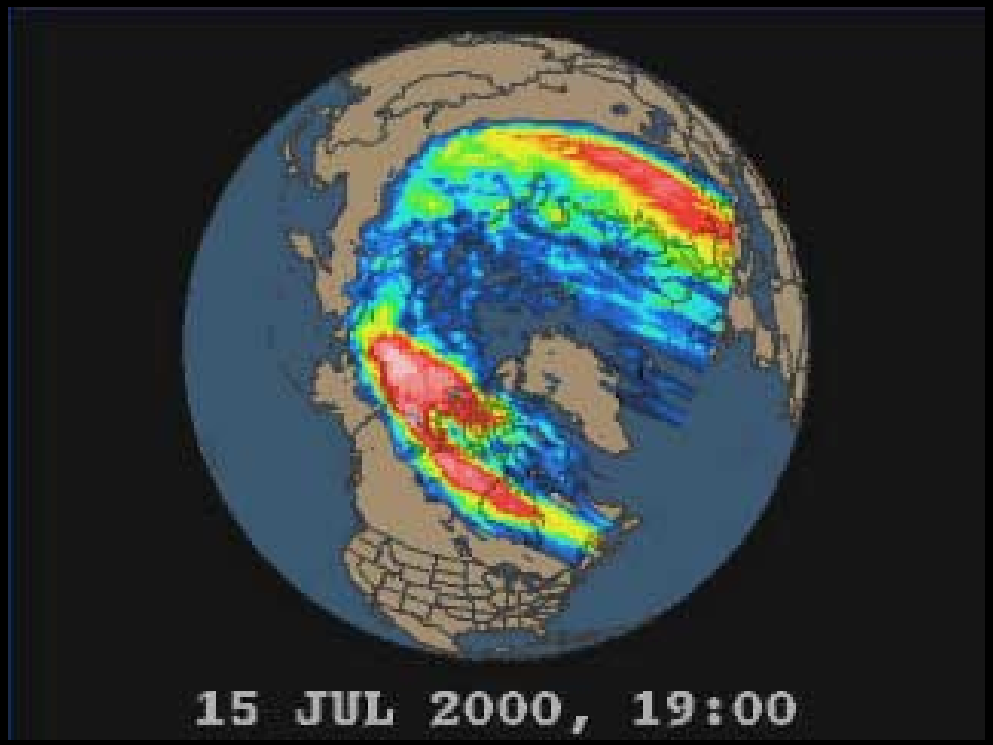
Aurora: Points of View

View From Earth

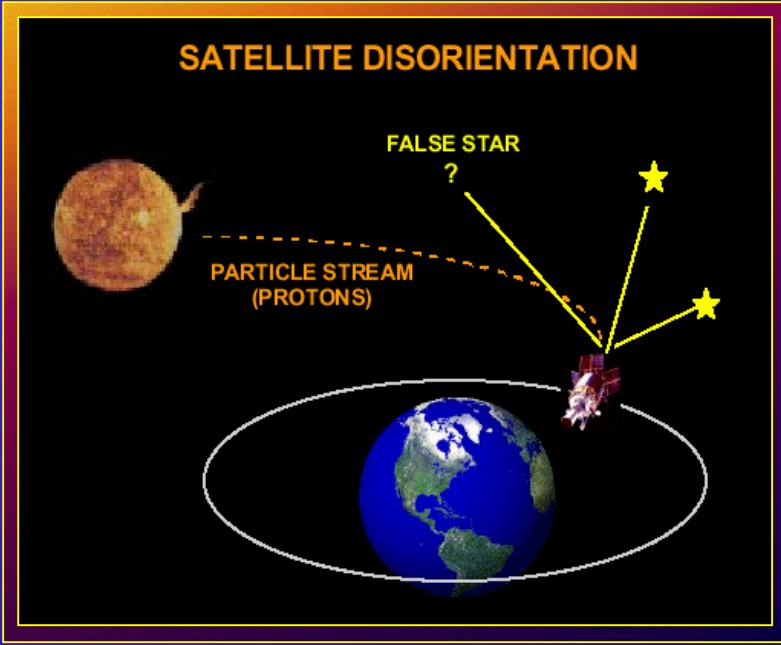


View From Space

Aurora:
Lights in Motion

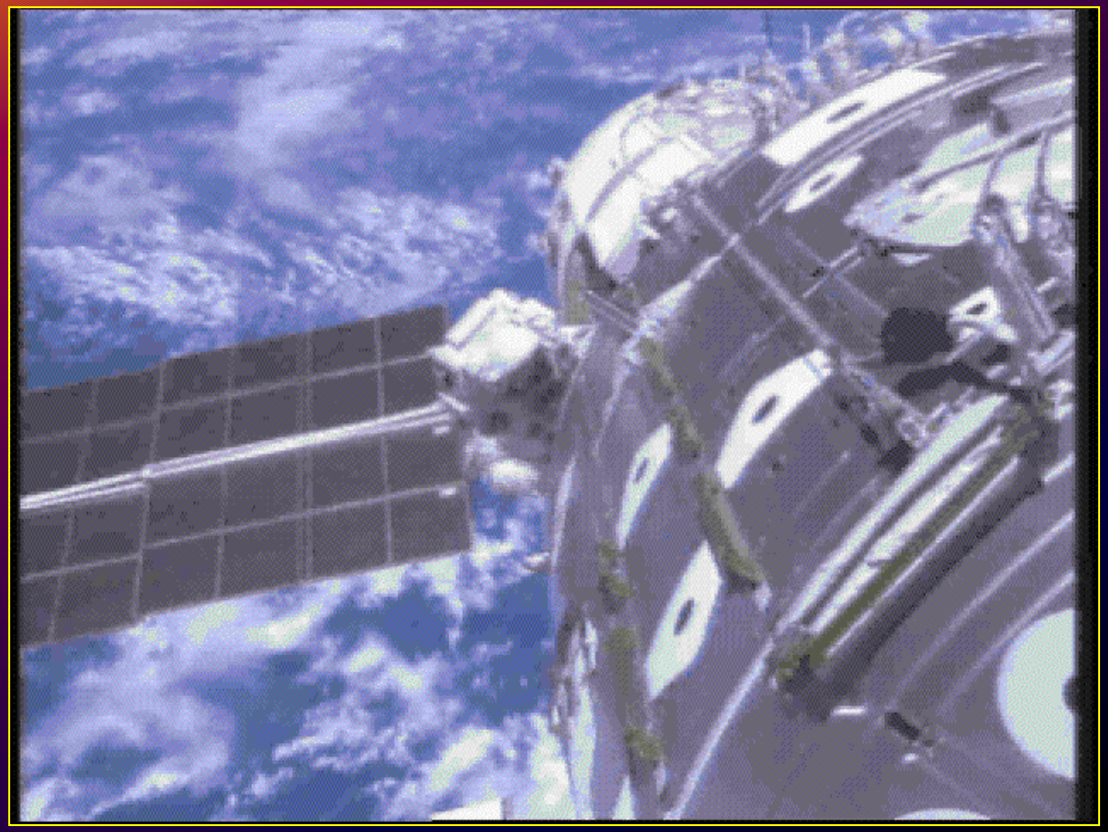


Space Weather :
Effects On Orbiting Spacecraft

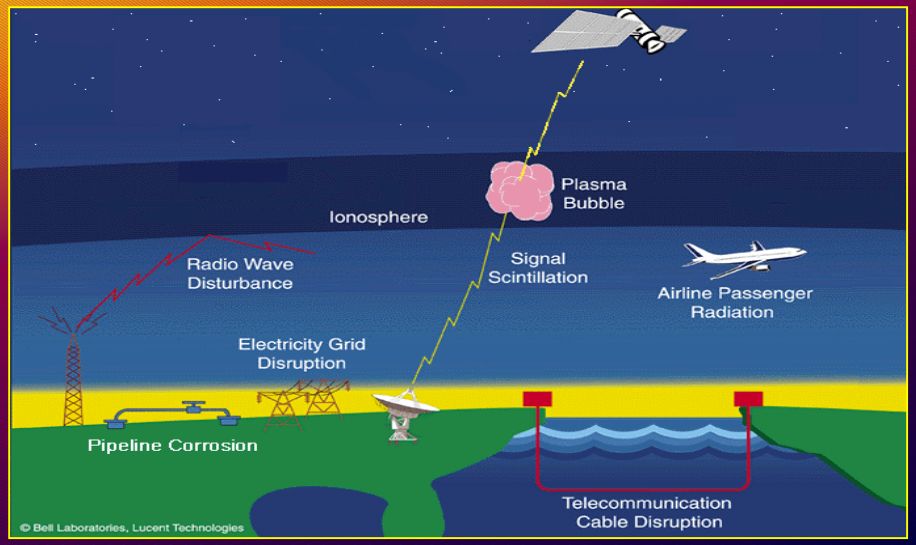


Space Weather :
Effects On Satellite Sensors

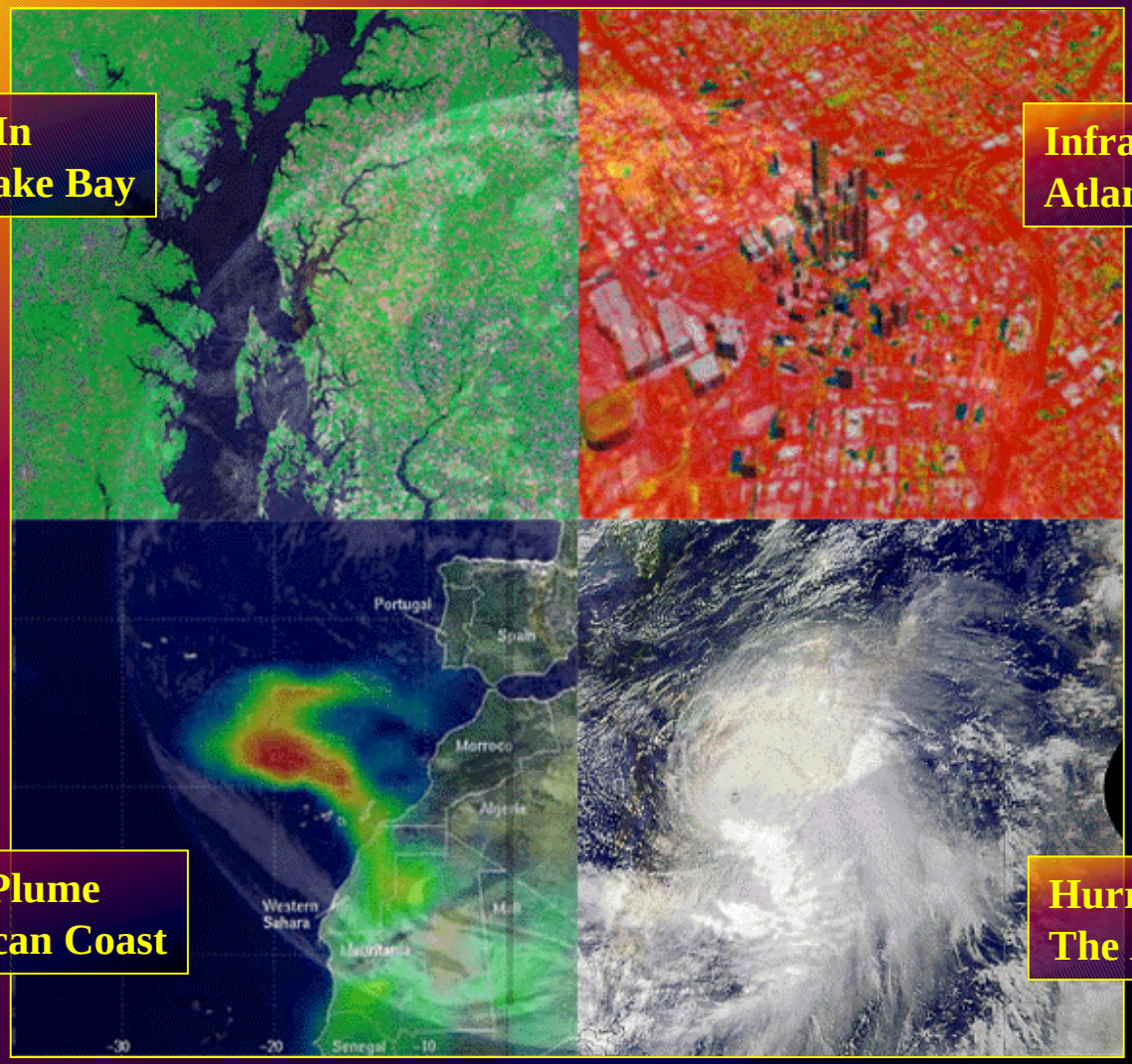
Solar Storms: Effects on Humans in Space



Solar Storms: Effects On Societal Systems



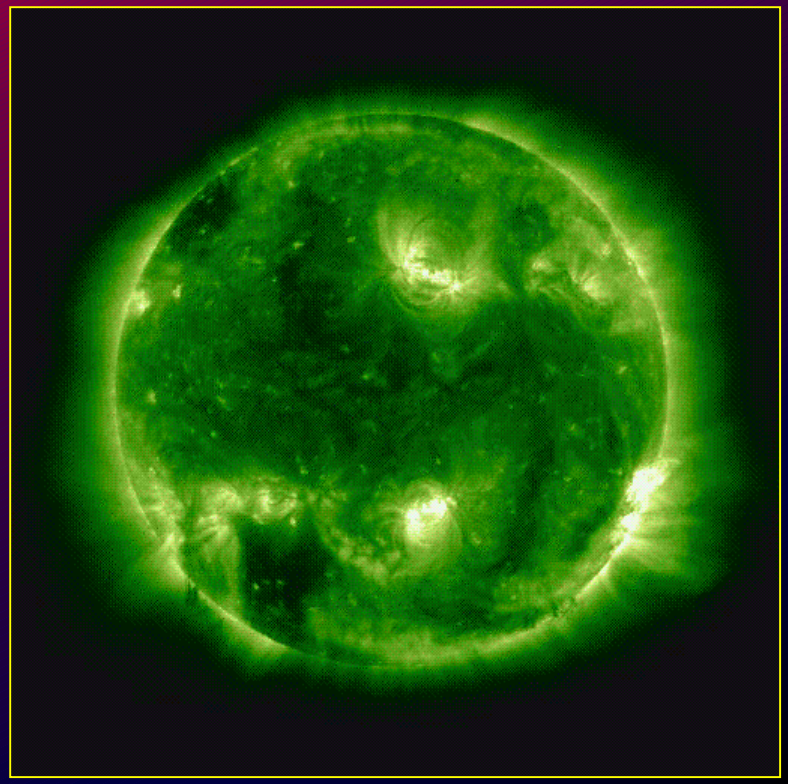
The Sun's Energy: Driver of Earth Weather



Water Level In The Chesapeake Bay

Infrared Image Of Atlanta, Georgia

Sahara Dust Plume Off The African Coast

Hurricane In The Atlantic Ocean

Sun-Earth Connection