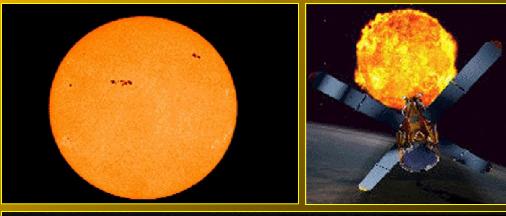


### Sun-Earth Connection:





**A New Perspective** 



#### **Main Areas Of Research**



Aerospace Technology



Space Science

Human Exploration And Development Of Space



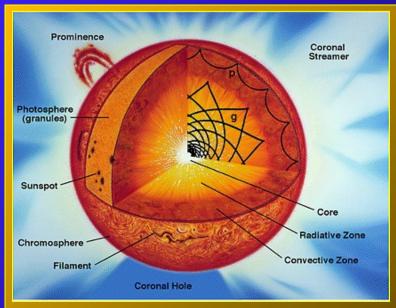
## Importance of Space Technology

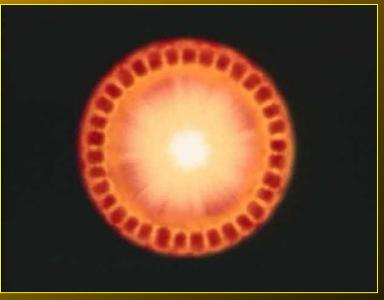


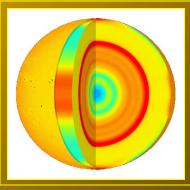
**Better Observation Of The Sun And Earth** 



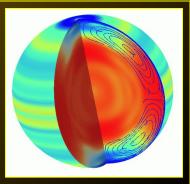
#### **Sun's Internal Structure**





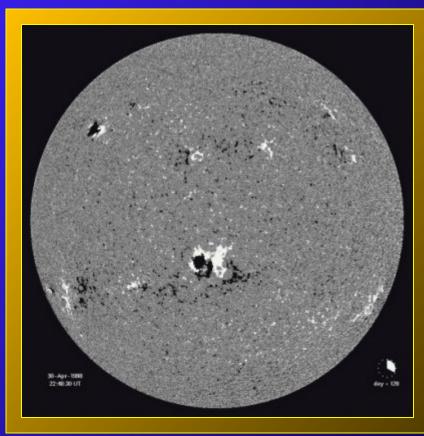


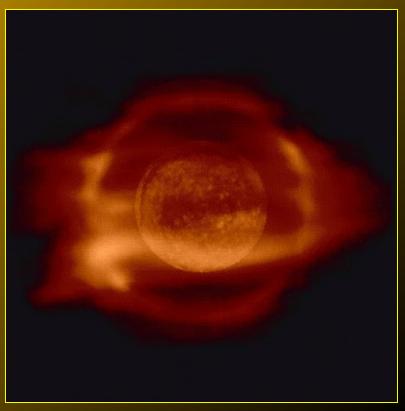
The globes to the left and right represent variations in temperature and rotation of the Sun based on MDI data.





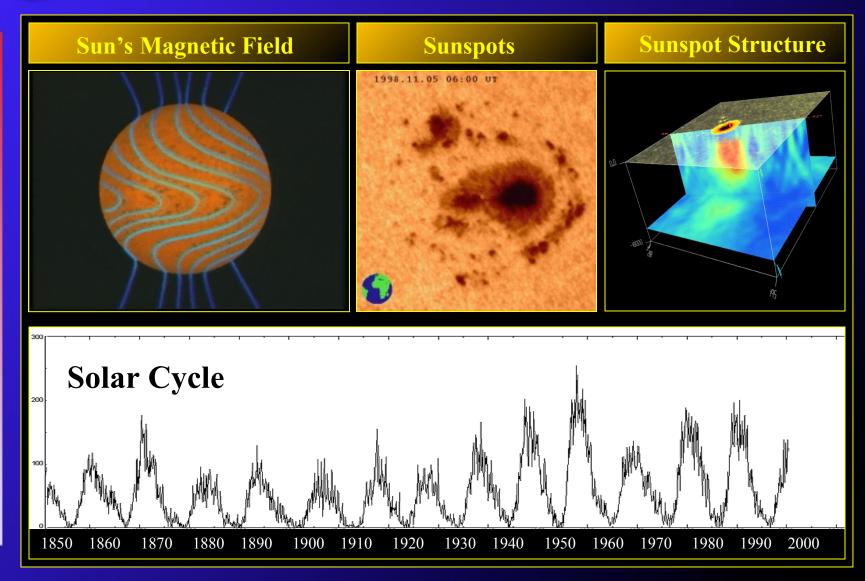
# Surface And Atmosphere Of The Sun





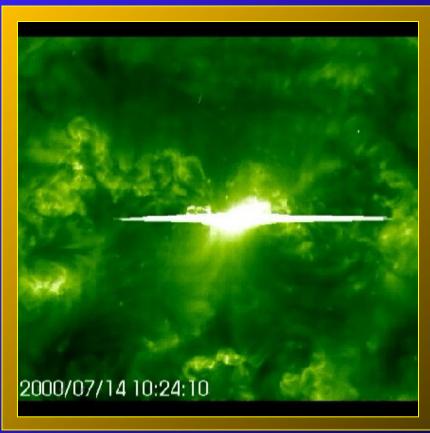


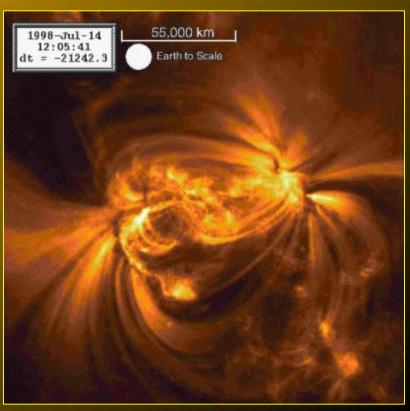
#### Sunspots





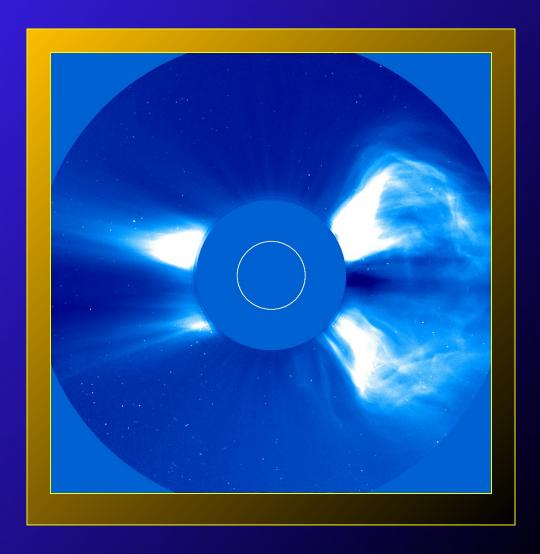
#### **Solar Flares**





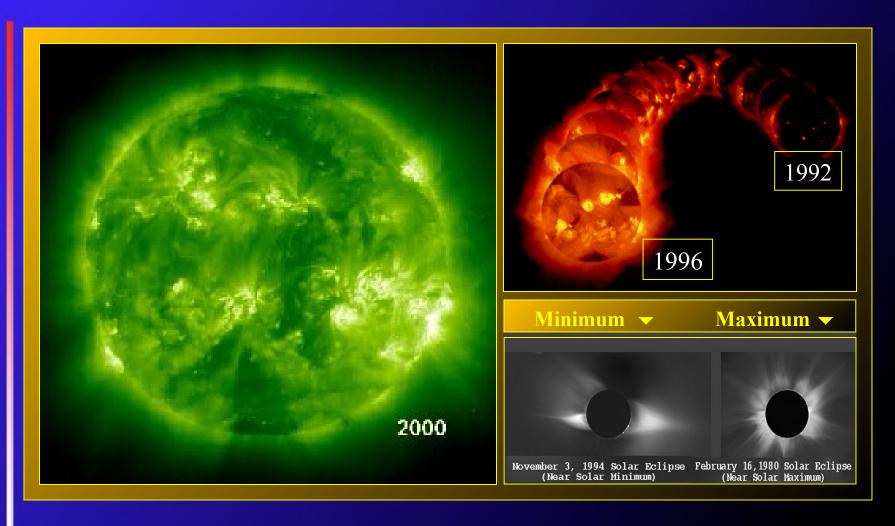


### **Coronal Mass Ejections**



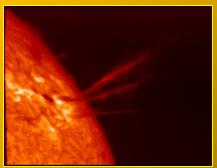


#### **Solar Cycles**

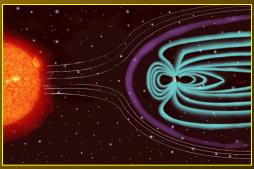


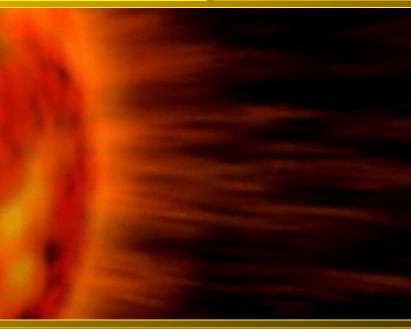


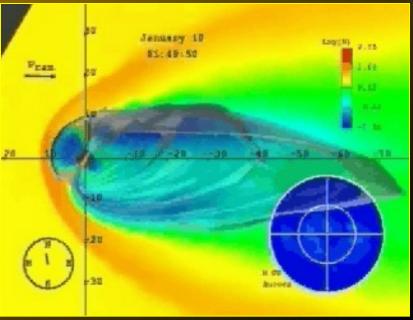
#### **Solar Wind**



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

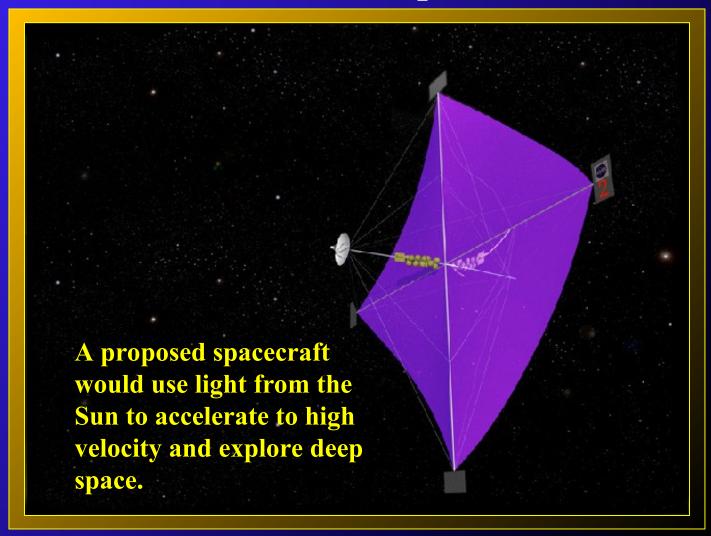






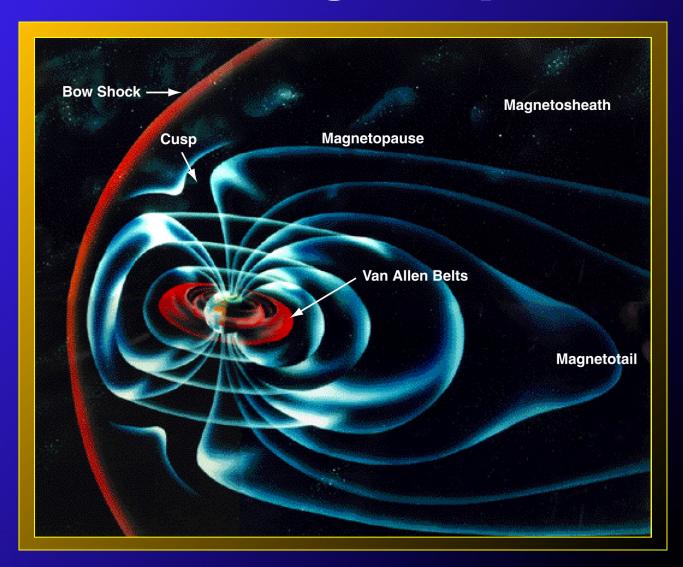


### Solar Sail Interstellar Exploration



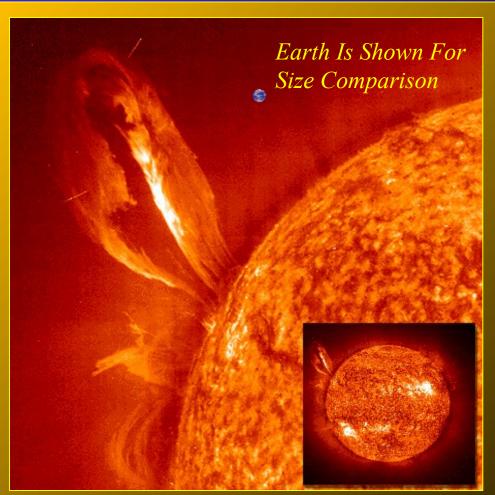


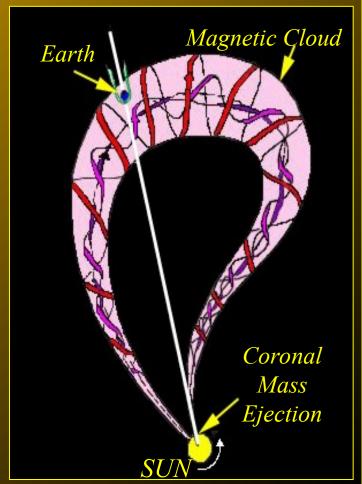
#### Earth's Magnetosphere





#### Coronal Mass Ejections: Crossing the Earth's Path







## Coronal Mass Ejections: Impact On Earth



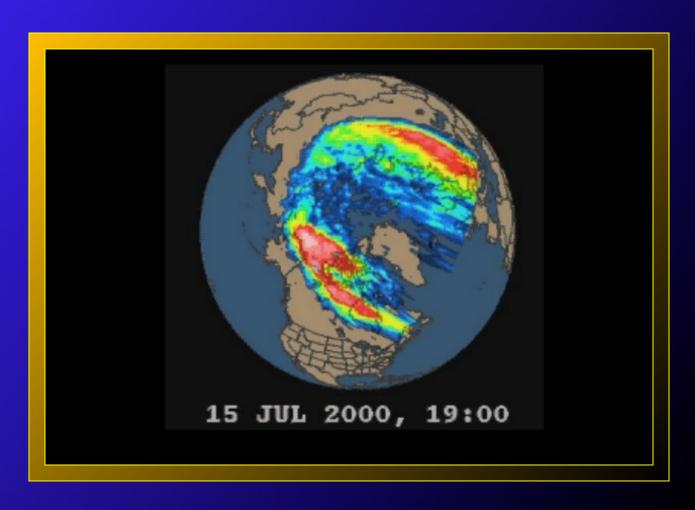


# Aurora: Points of View

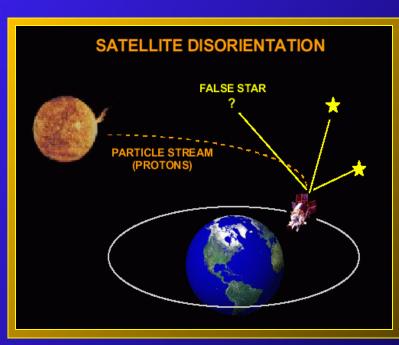




#### Aurora: Lights in Motion



# Space Weather: Effects On Orbiting Spacecraft







### Space Weather: Effects On Satellite Sensors

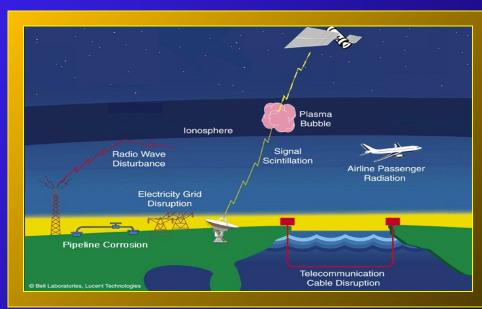


# Solar Storms: Effects on Humans in Space





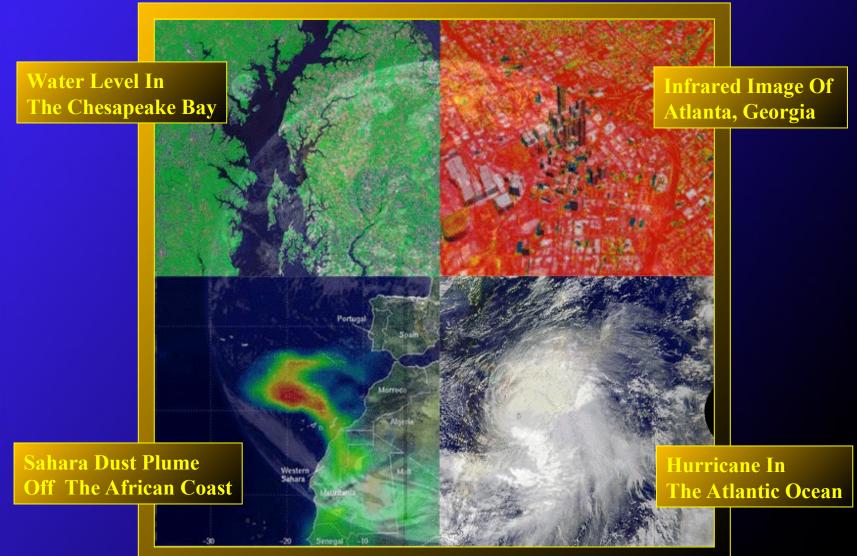
#### Solar Storms: Effects On Societal Systems





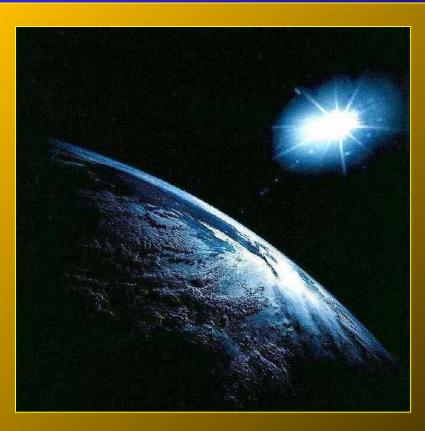


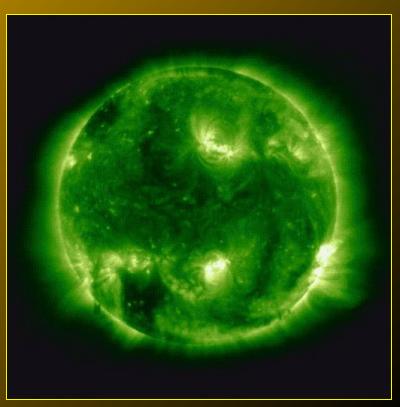
### The Sun's Energy: Driver of Earth Weather





#### **Sun-Earth Connection**







#### The End