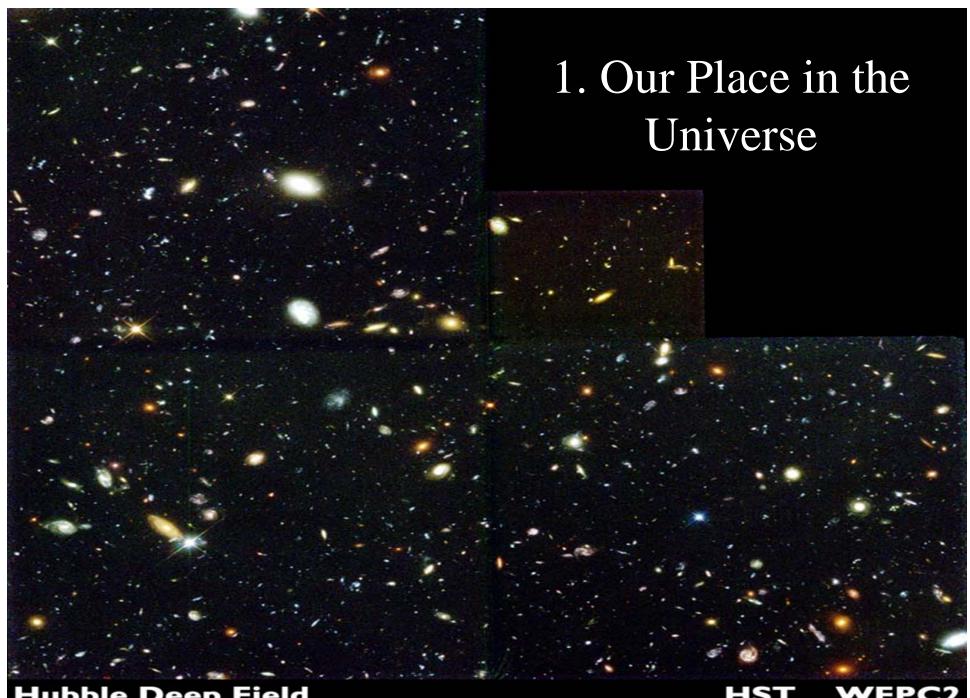
## Lecture 2: August 25, 2010

Estimation

• How much money does the US spend per public K-12 student per year, on average?



Hubble Deep Field
ST ScI OPO January 15, 1996 R. Williams and the HDF Team (ST ScI) and NASA

#### 1.1 A Modern View of the Universe

#### Our goals for learning:

- What is our physical place in the Universe?
- Describe our cosmic origins and why we say that we are "star stuff."
- Why does looking into space mean looking back in time?

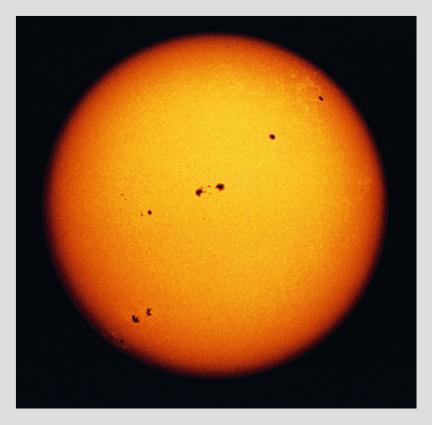
#### Address: Earth

• How would the Universal post office find us?



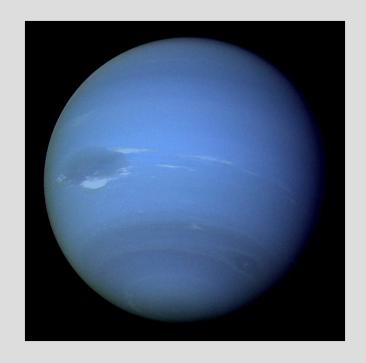
#### Star

A large, glowing ball of gas that generates heat and light through nuclear fusion



#### **Planet**





A moderately large object which orbits a star; it shines by reflected light. Planets may be rocky, icy, or gaseous in composition.

## Moon



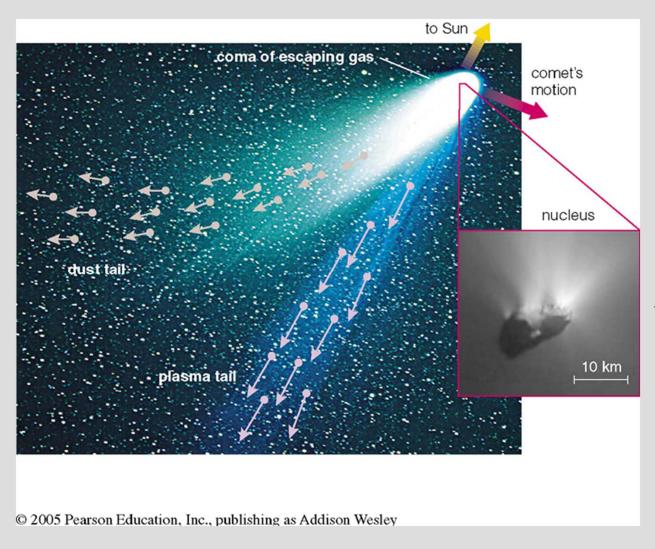
An object which orbits a planet.

### **Asteroid**

A relatively small and rocky object which orbits a star.



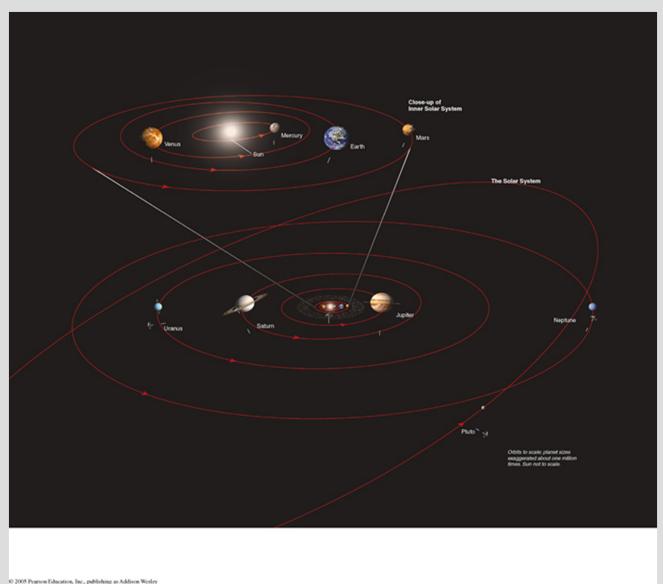
### **Comet**



A relatively small and icy object which orbits a star.

# Solar (Star) System

A star and all the material which orbits it, including its planets and moons



# Nebula



An interstellar cloud of gas and/or dust

# Galaxy

A great island of stars in space, all held together by gravity and orbiting a common center

