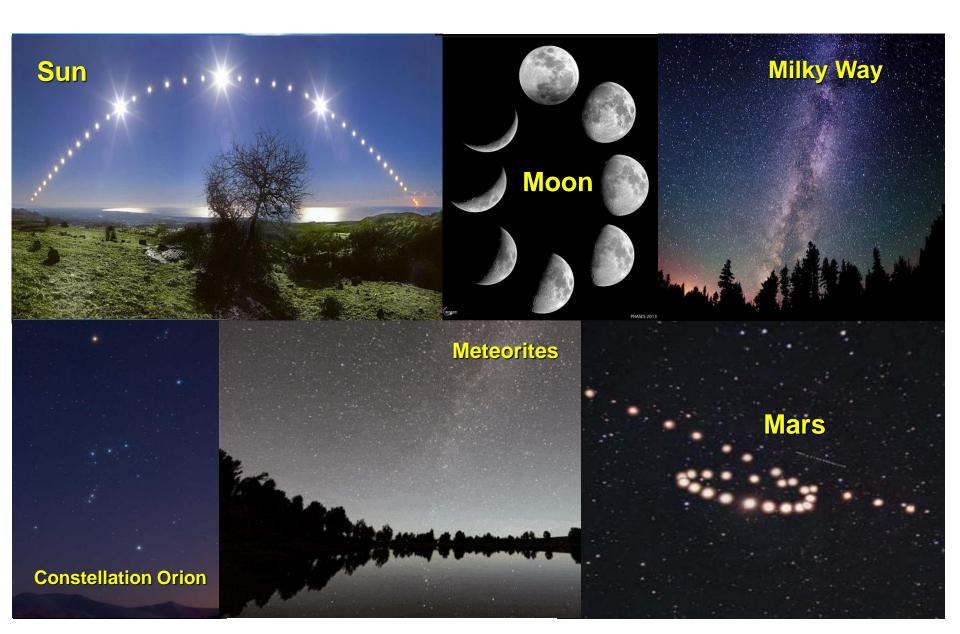


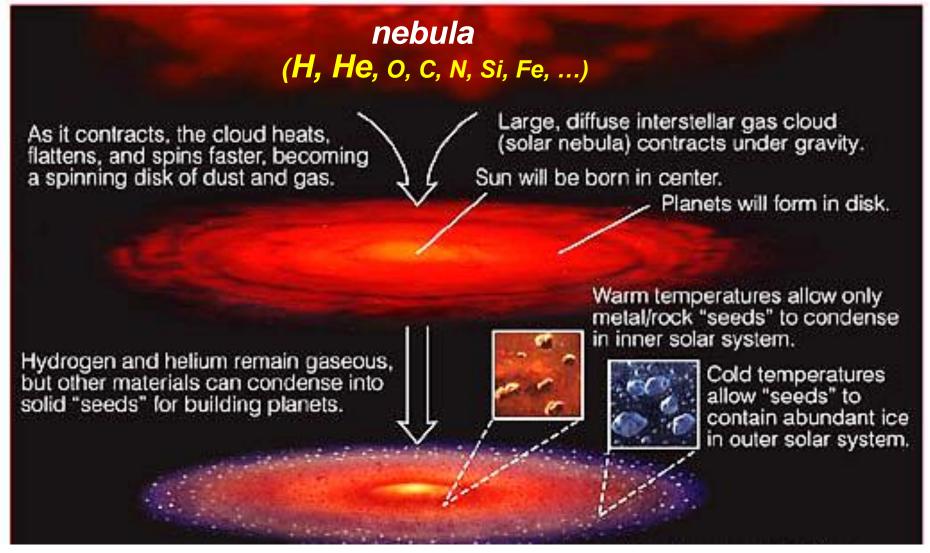
### What do we see from Earth?



# The Formation of the Solar System

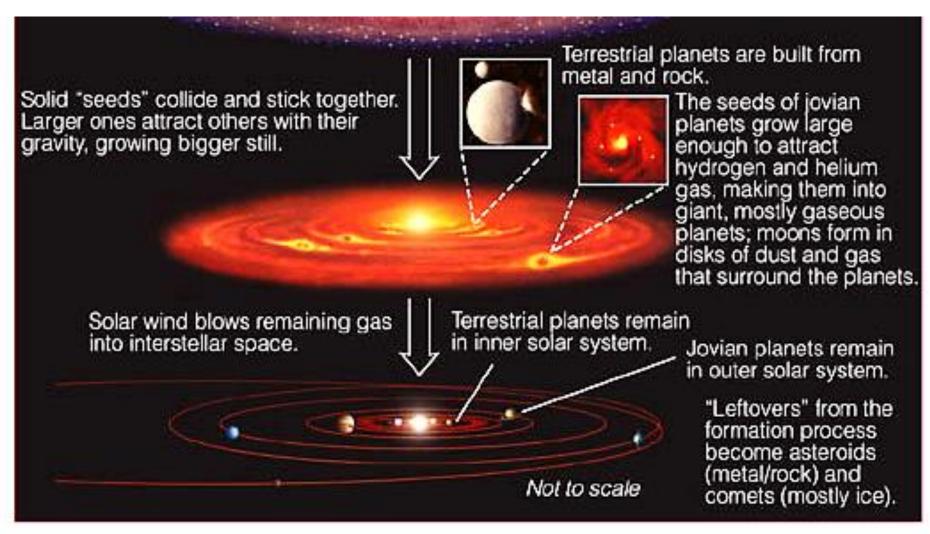
(~4.6 billion years ago)

**Nebular Hypothesis** 



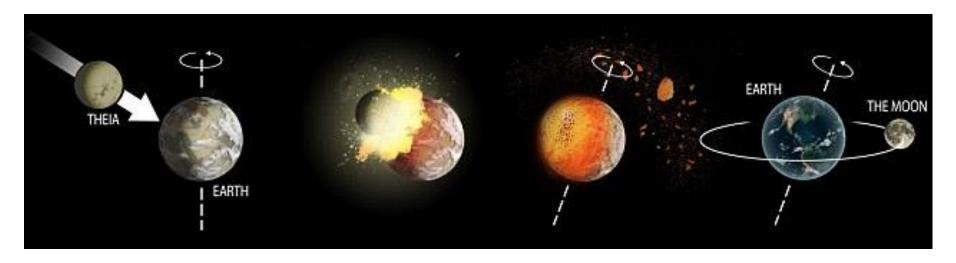
## The Formation of the Solar System

The Sun, planets, moons, comets, asteroids are believed to form within 50-100 million years.



#### Formation of the Moon

#### **The Giant Impact Hypothesis**



- Suggests that the Moon formed out of the debris left over from a collision between Earth and an astronomical body the size of Mars, approximately 4.5 billion years ago, about 20 to 100 million years after the Solar System coalesced.
- The colliding body is sometimes called Theia.
- Fun Fact: Earth and Moon have almost identical composition!

