

# What do we see from Earth?

Sun



Moon



Lunar Eclipse



Milky Way



Constellation Orion

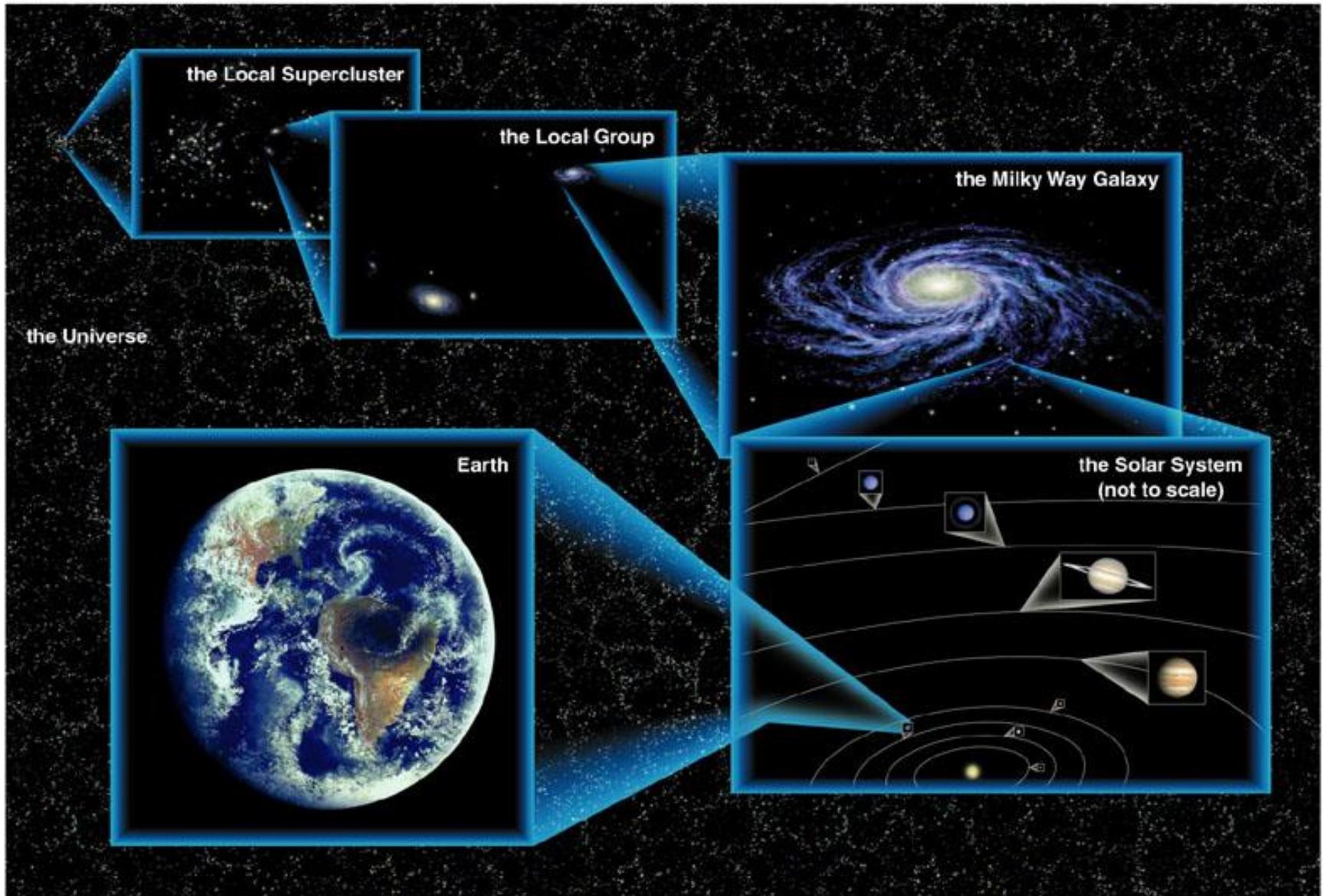


Mars



**Where is Earth?**

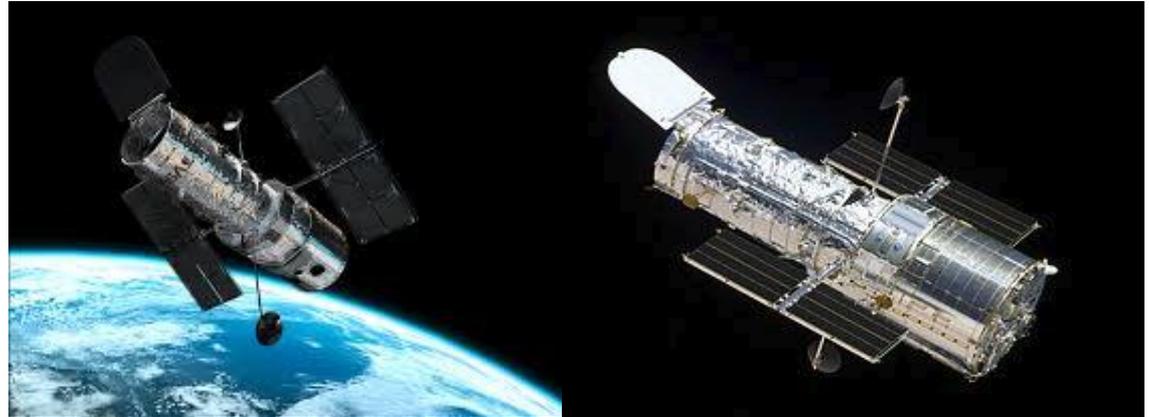
# Earth in the Universe



# Telescope: Past and Present

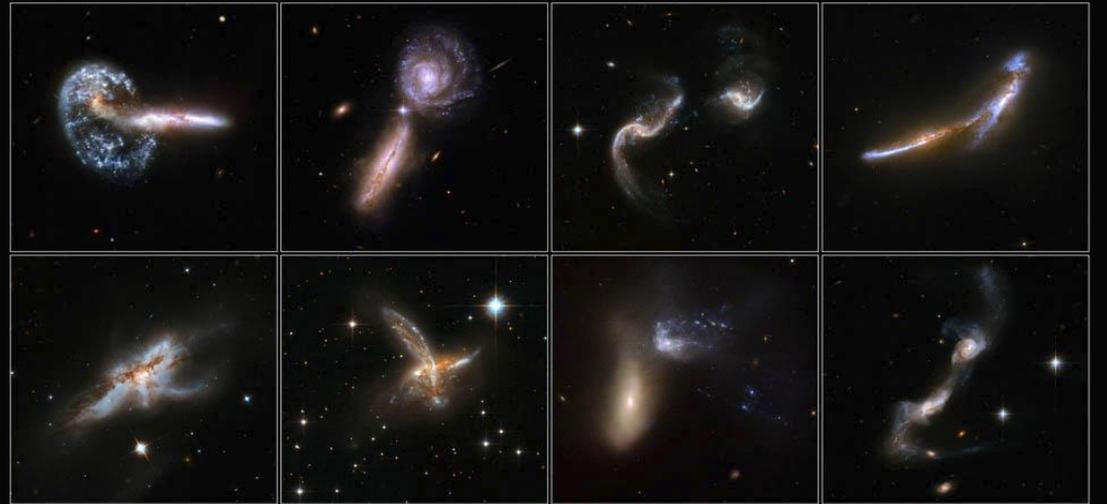


Two of **Galileo's first telescopes**, 10x and 20x and his ink rendering of the Moon.



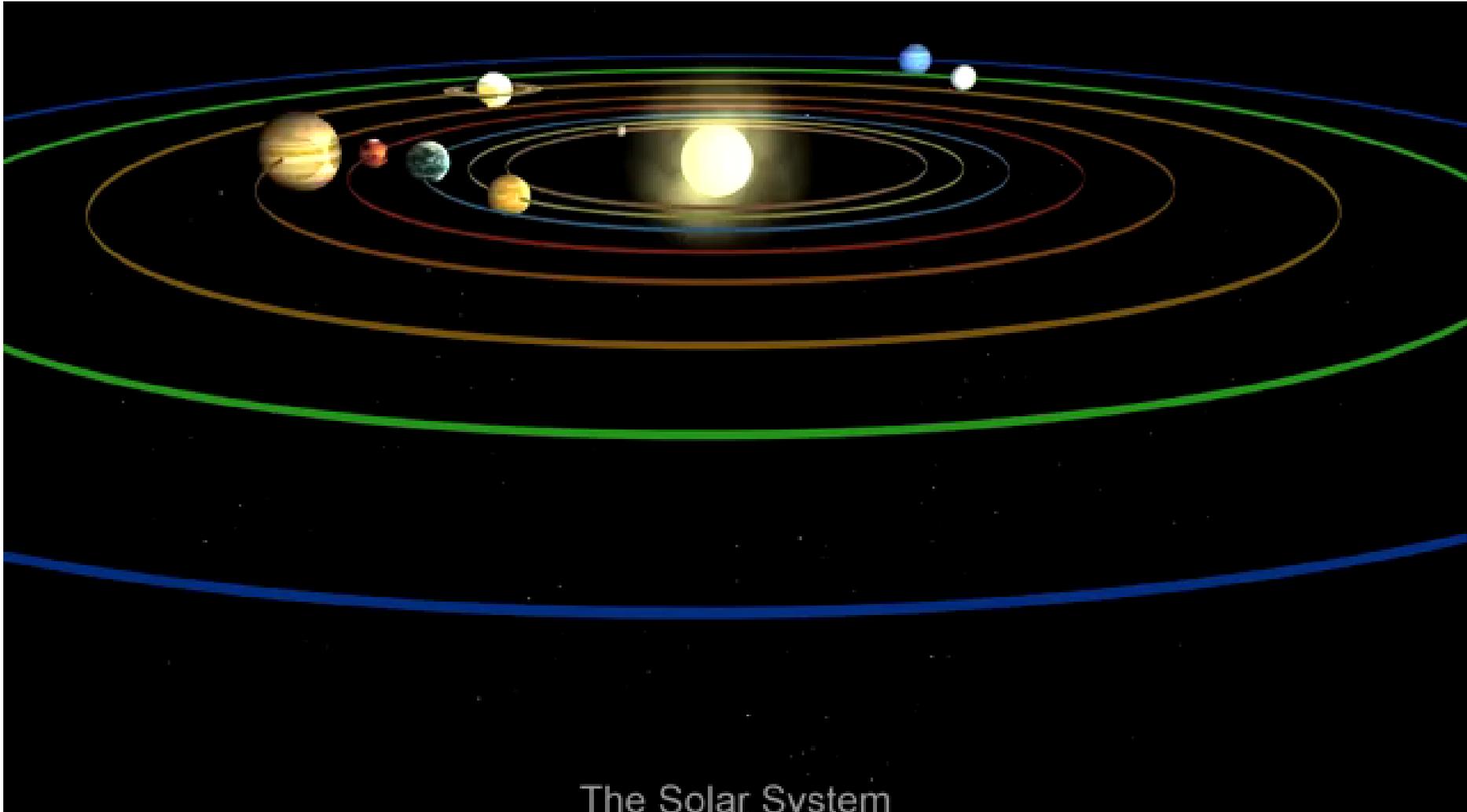
Interacting Galaxies

Hubble Space Telescope • ACS/WFC • WFPC2



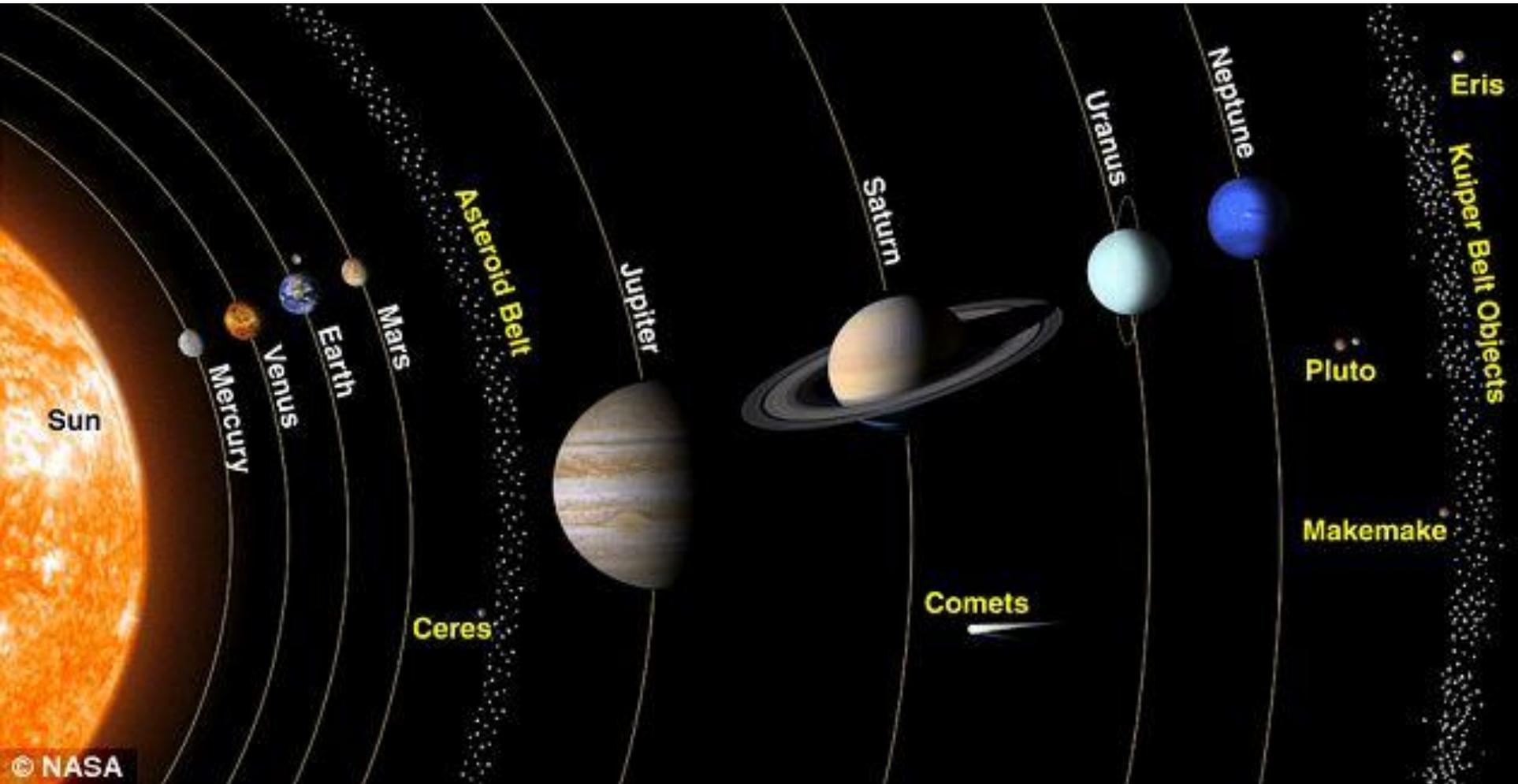
**Hubble Space Telescope** (launched in 1990, expected to last until 2030-2040) allows observations in near-UV, visible, and near-IR spectra.

# Solar System



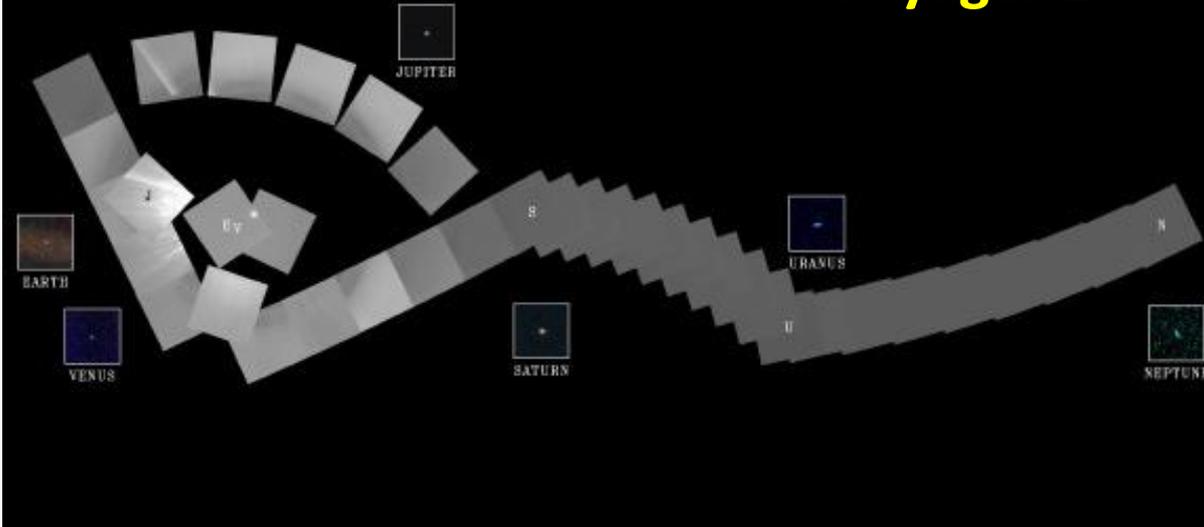
The Solar System

# Solar System Objects



(not exactly to scale)

## images taken by Voyager 1



On **February 14, 1990**, the cameras of **Voyager 1** pointed back toward the Sun and took a series of pictures of the Sun, Earth and other planets, making the first ever **'family portrait'** of the **Solar System** as seen from the **outside**.

reconstructed and  
labeled picture

