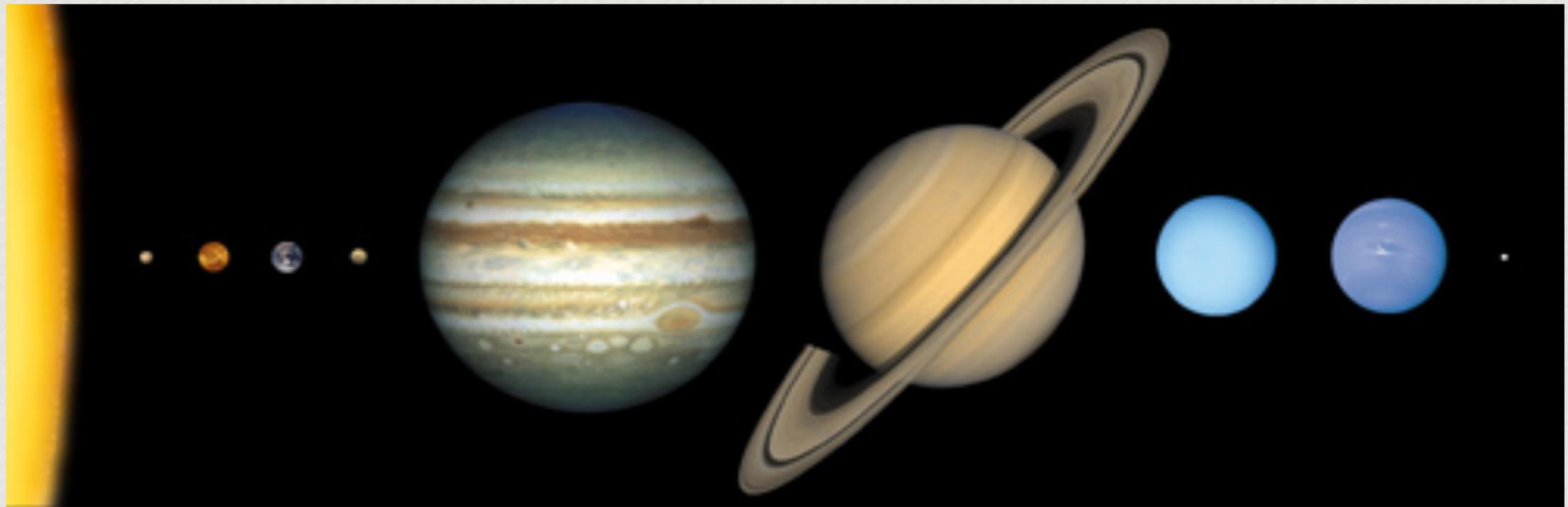


# All About Our Solar System

*By Grace*

# Chapter 1: The Planets

*Planet: a round object in space that orbits a star*

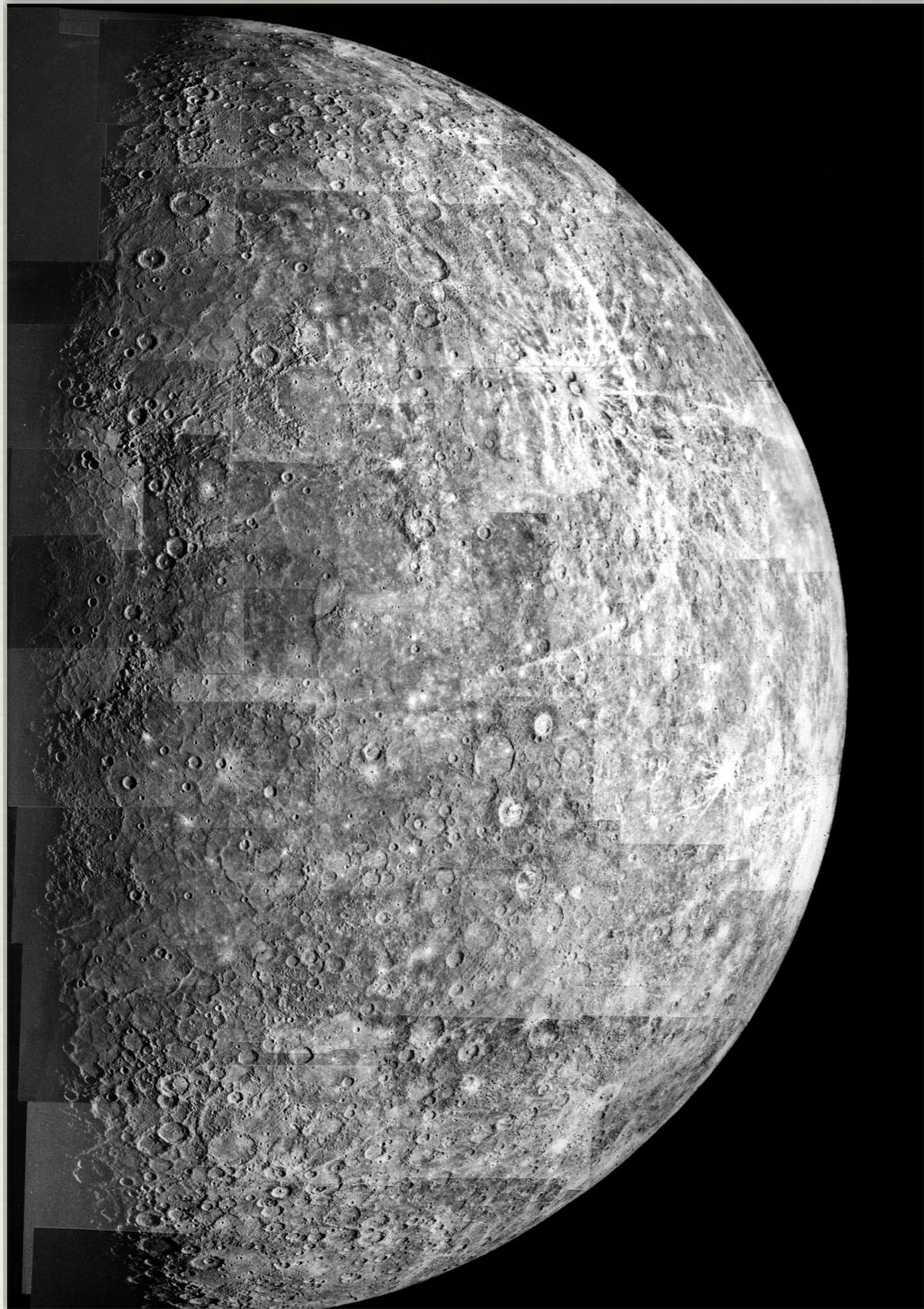


# Mercury

# Mercury

*Mercury Mercury is an Inner Planet. To begin, Mercury has a surface similar to the moon's. They both have craters from space rocks hitting their surface. In this book, there will be a chapter on space rocks. Secondly, Mercury is the smallest planet. One of Jupiter's moons is bigger than teeny tiny Mercury! The huge moon's name is Ganymede. In addition, Mercury takes 88 days to orbit the sun. That is Mercury's planetary year. A 'planetary year' is how long the planet takes to orbit the sun. Our planetary year on Earth is 365 days. After that, a 100 pound human would weigh*

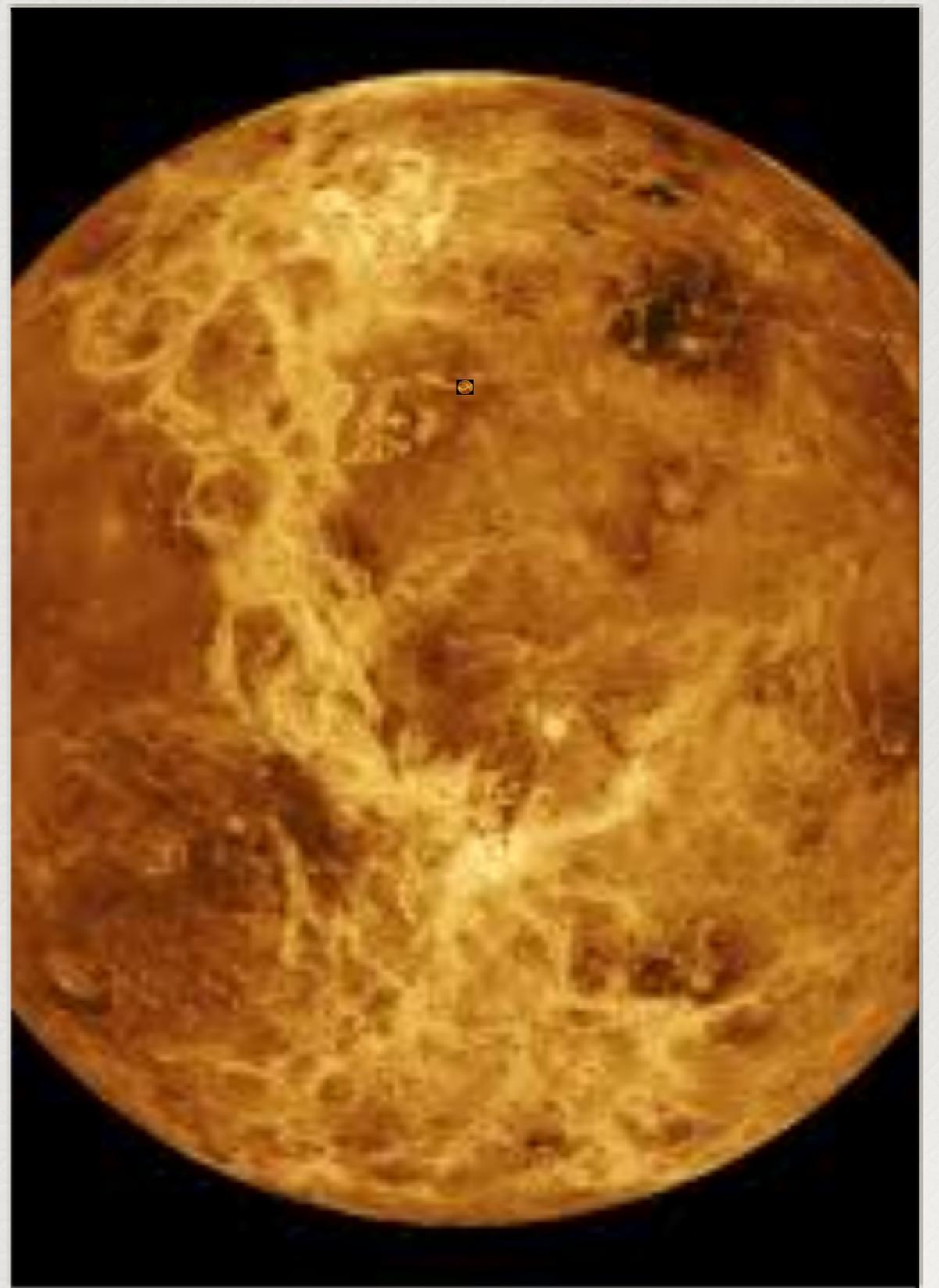
*only only 38 pounds on Mercury! That is 62 pounds less than the 100 pound human would weigh on Earth! Gravity is way less there. After that, at its closest, Mercury is 28,600,000 miles away from the sun. That's really hot! Probably too hot for life of any kind. Last but not least, Mercury has an extremely thin atmosphere. The planet's small size means that its gravity is too weak to hold down a normal atmosphere. All in all, Mercury is very interesting.*



# Venus

# Venus

*Venus is a planet worth reading about! To begin, Venus is sometimes called Earth's sister planet. It's called that because Earth and Venus are roughly the same size! For a long time, scientists thought Venus might be very similar to Earth. Actually, there are very few similarities between the two planets! In addition, Venus takes 88 days to orbit the Sun. Venus has a planetary year as well! To be clear, all the planets in the universe do. To conclude, on Venus there are many lava flows. Apparently, Venus is the hottest planet in our solar system. In conclusion, Venus is a planet worth learning about!*



# Earth

# Earth

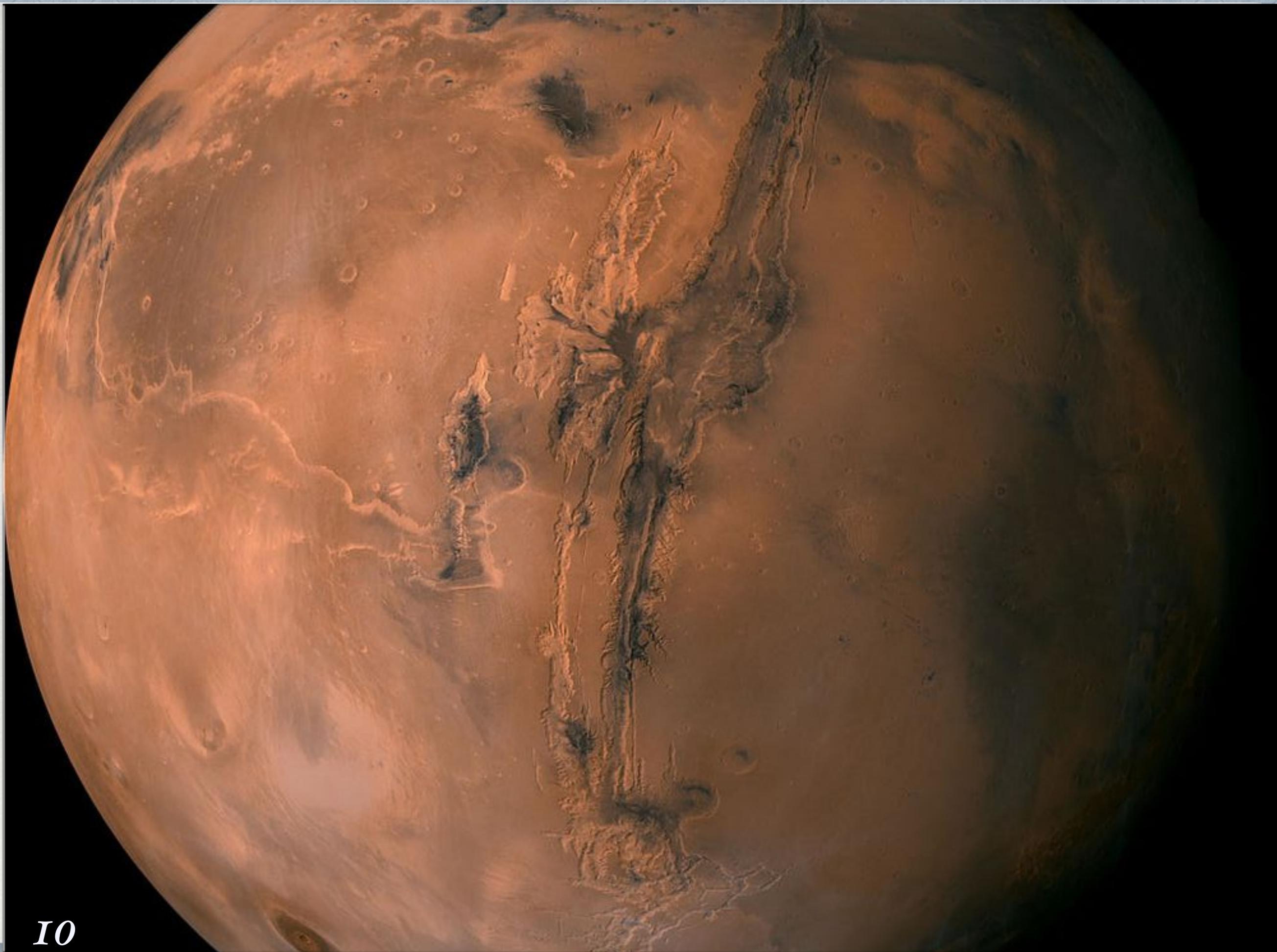
*Earth is the most wonderful planet of all the planets! First of all, Earth's atmosphere is 78 % nitrogen, 21 % oxygen, 0.9 % argon, and 0.03 % carbon dioxide. There are some other elements, but I don't think I need to list them. Secondly, for much history, the human population believed the Earth was flat and the center of the universe. We were very, very, wrong about that! All in all, Earth is the most wonderful of the planets.*



# Mars

# Mars

*Mars is the next planet in our solar system. To begin, Mars is the fourth planet from the Sun. It's 141.6 mi from the Sun. Jupiter is twice that distance away from Mars. Second, Mars is much smaller than Earth. It is about 35% the size of Earth. It has less size and that means less gravity. Third of all, Mars takes 687 days to orbit the sun. That's like twice our planetary year! Last but not least, a 100 pound human would weigh only 38 pounds on Mars. That would be 62 pounds less than average. You have learned about the next planet in our solar system!*



# Jupiter

# Jupiter

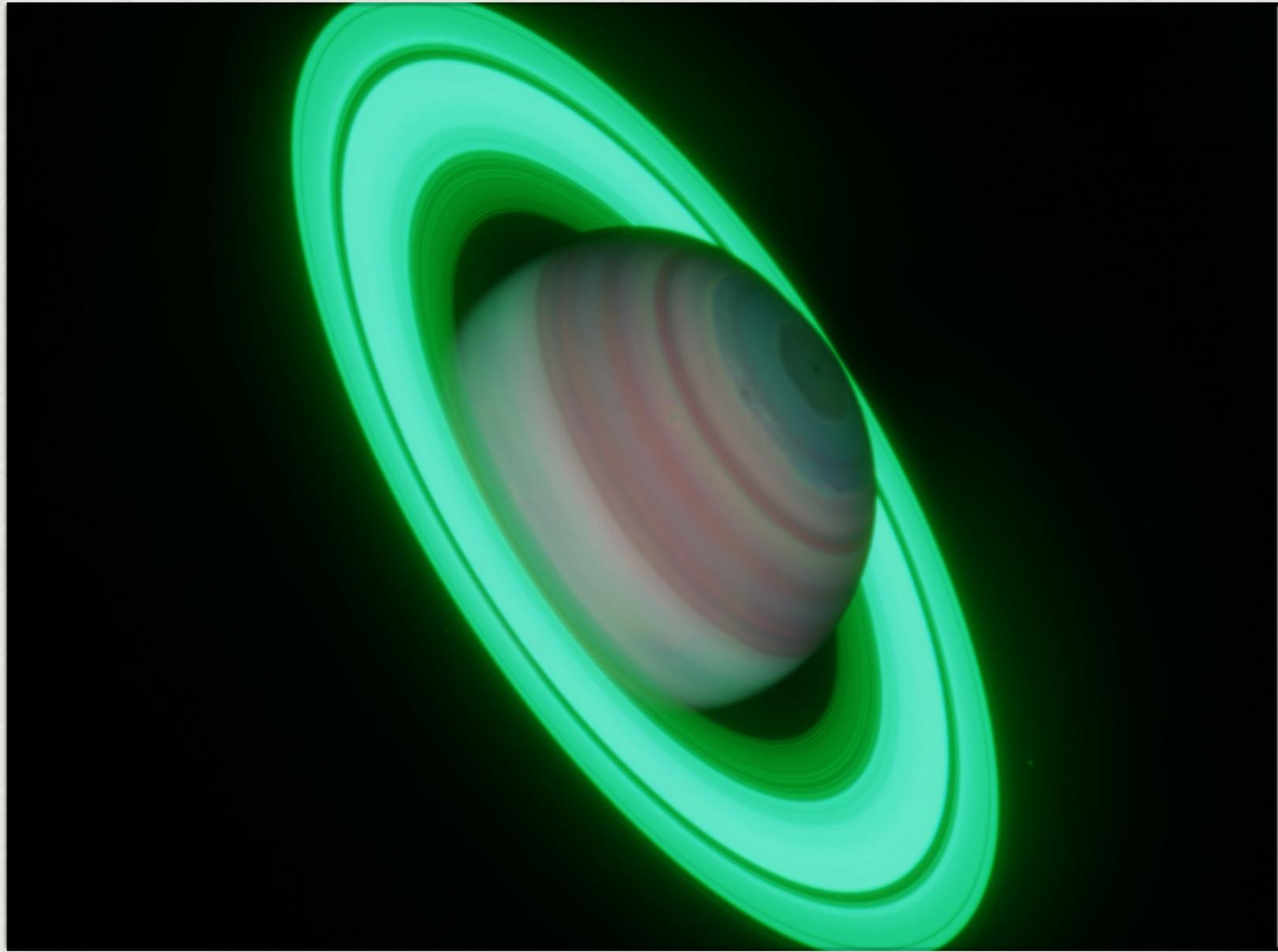
*Jupiter is a very fascinating planet. First of all, Jupiter is the first of the Gas Giants. After Jupiter comes Saturn, then Uranus, last Neptune. Secondly, Jupiter is nearly 318 times as massive as Earth! This leads up to having much more gravity. After that, three Earths could fit inside the huge storm known as the Great Red Spot. That is one humongous storm! Furthermore, Jupiter takes 11.86 Earth years to orbit the Sun. Whoa! In addition, a 100 pound human would weigh 254 pounds on Jupiter. He or she would weigh about 154 more pounds than usual. Last but not least, Jupiter has at least 63 moons. We only have one on Earth. All in all, Jupiter is a fascinating planet.*



# Saturn

# Saturn

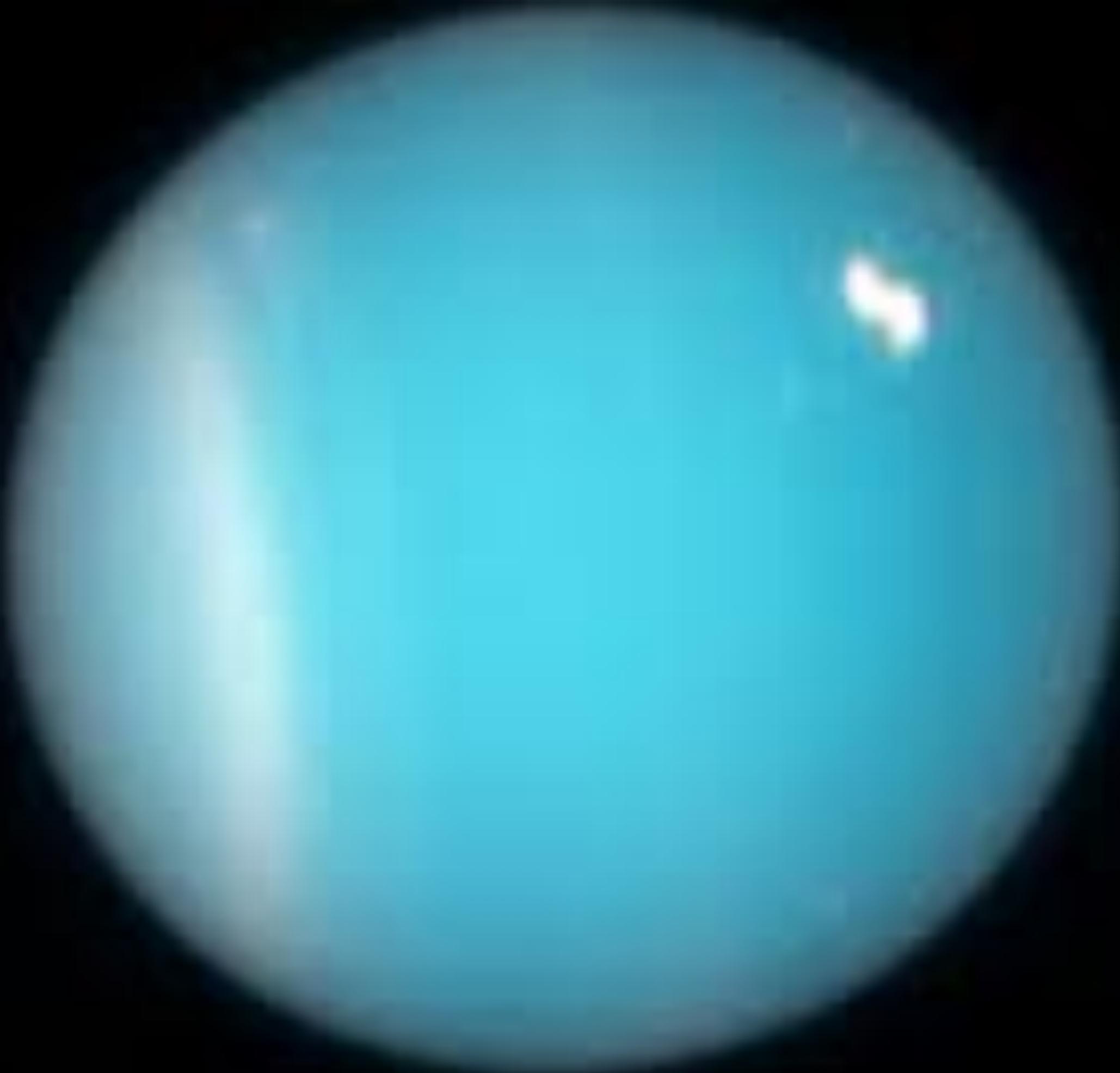
*Saturn is a great planet to learn about! To begin, when most people think of Saturn, they think of its rings. Actually, Saturn is most famous for its rings than any other characteristic. Secondly, Saturn takes 29 years to orbit the Sun! That is how long it takes for a human to grow up! After that, Saturn's average temperature is -288 degrees Fahrenheit. It never gets that cold on Earth! In conclusion, Saturn is a great planet to learn about!*



# Uranus

# Uranus

*Uranus is a beautiful planet. To start, Uranus is 1.784 billion miles away from our star, the sun. Apparently, most of space is just space. You have probably noticed that the distance between the planets and the planetary years have been getting longer as we go farther into the solar system. Last but not least, Uranus's planetary year is 84 Earth years! That is about how long most people live!*

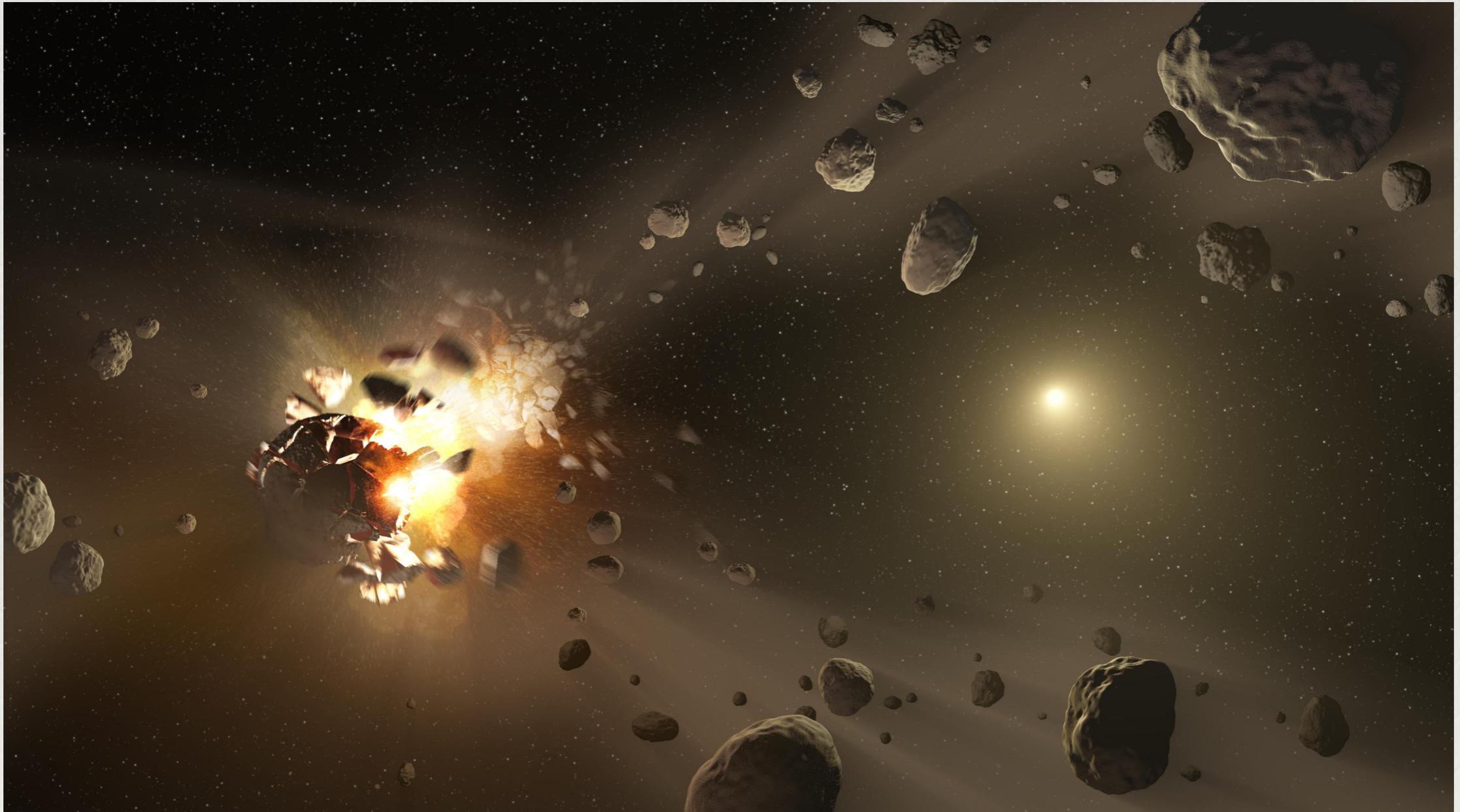


# Neptune

# Neptune

*Neptune Neptune is the last planet, but this doesn't mean it's not worth learning about! I'll begin with Neptune's planetary year, 165 Earth years? It's true! You wouldn't live to see it go around the sun even once. In addition, Neptune's average temperature is 200 degrees Celsius! You would only survive for about 3 minutes in that cold! Third of all, Neptune has many moons, Triton, Nereid, Proteus, Thalassa, Naiad, Sao, Galatea, Nereid, and more. All in all, Neptune is worth learning about even though it's the last planet!*

# Chapter II: Space Rocks



Comets

Comets