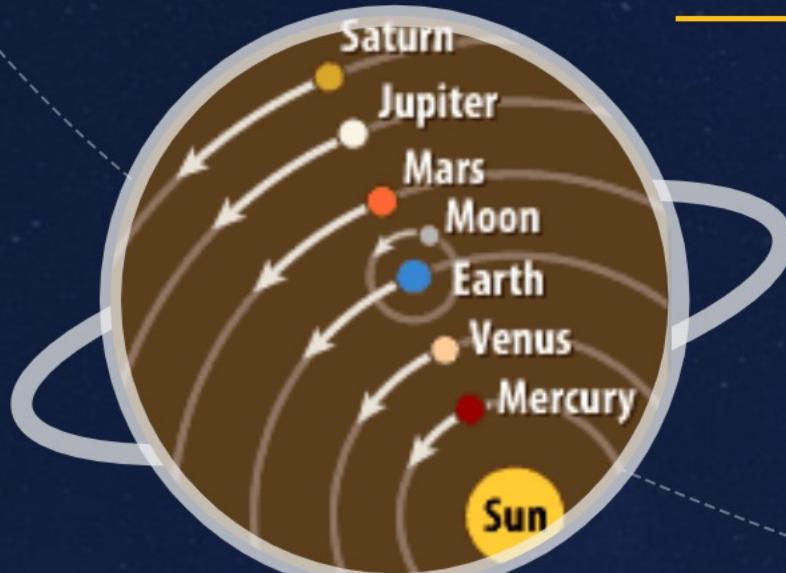




THE UNIVERSE

BASICS ABOUT THE UNIVERSE

LET US TELL YOU SOME SECRETS



Center of Universe

Our Address



Fascinating Discoveries







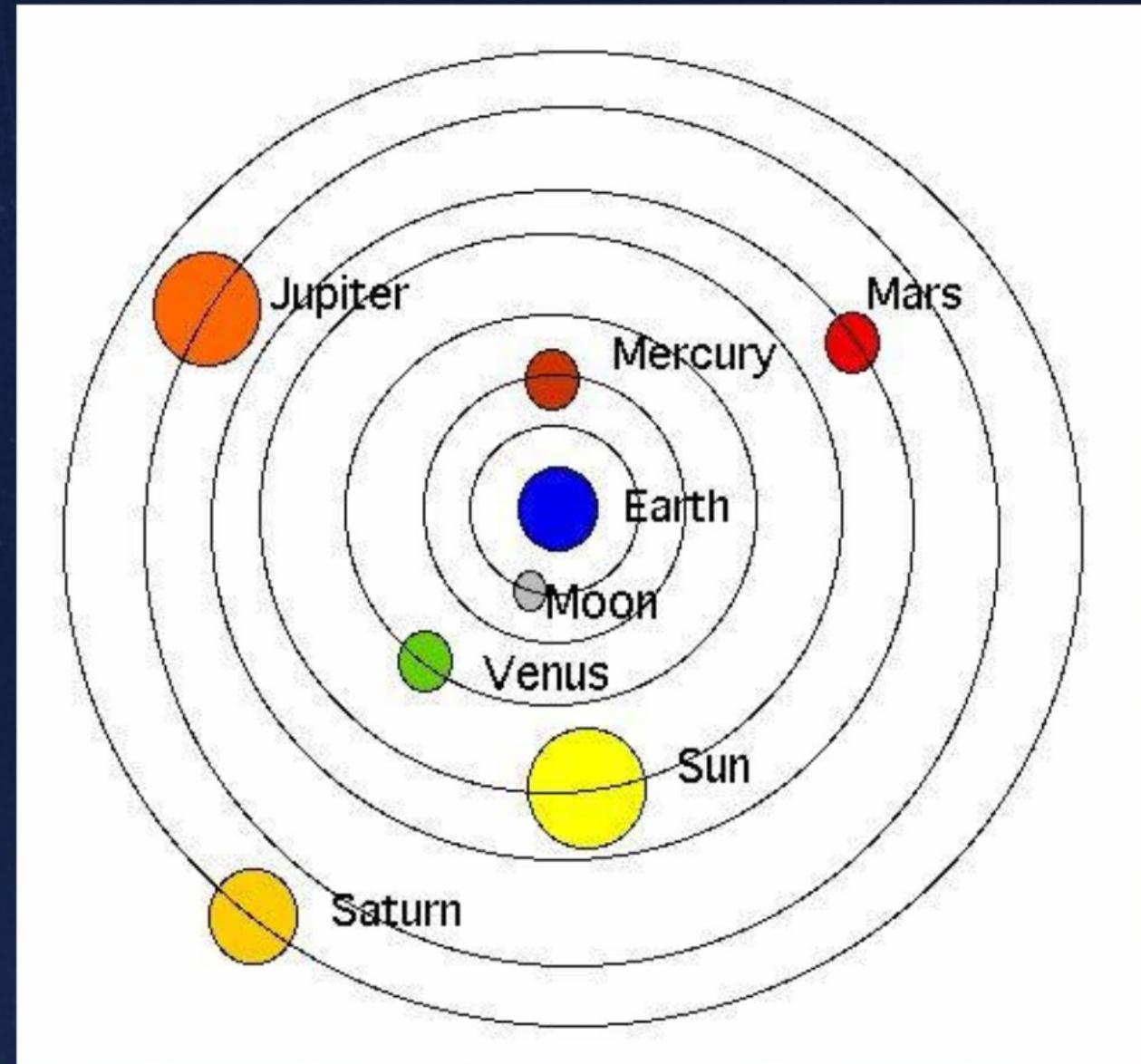
CENTER OF UNIVERSE

THE DEBATE

GEOCENTRIC MODEL OF THE UNIVERSE

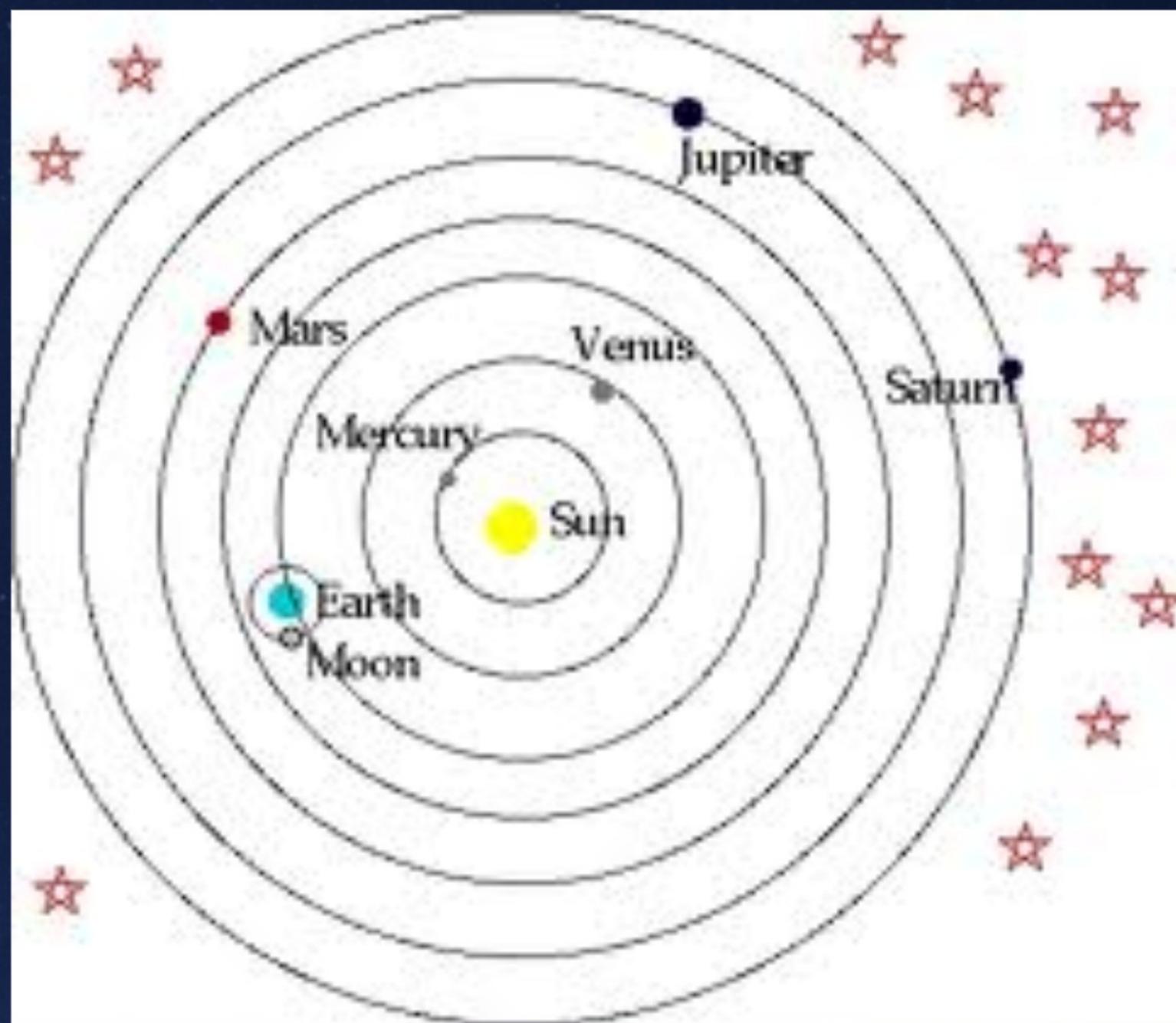
Earth is the center of the universe.

Stars, planets, moon and all other things including sun revolves around the Earth.



HELIOPTRIC MODEL OF THE EARTH

In 16th century,
Copernicus told
us that Sun is the
center of the
universe with the
planets and
stars orbiting
around it.



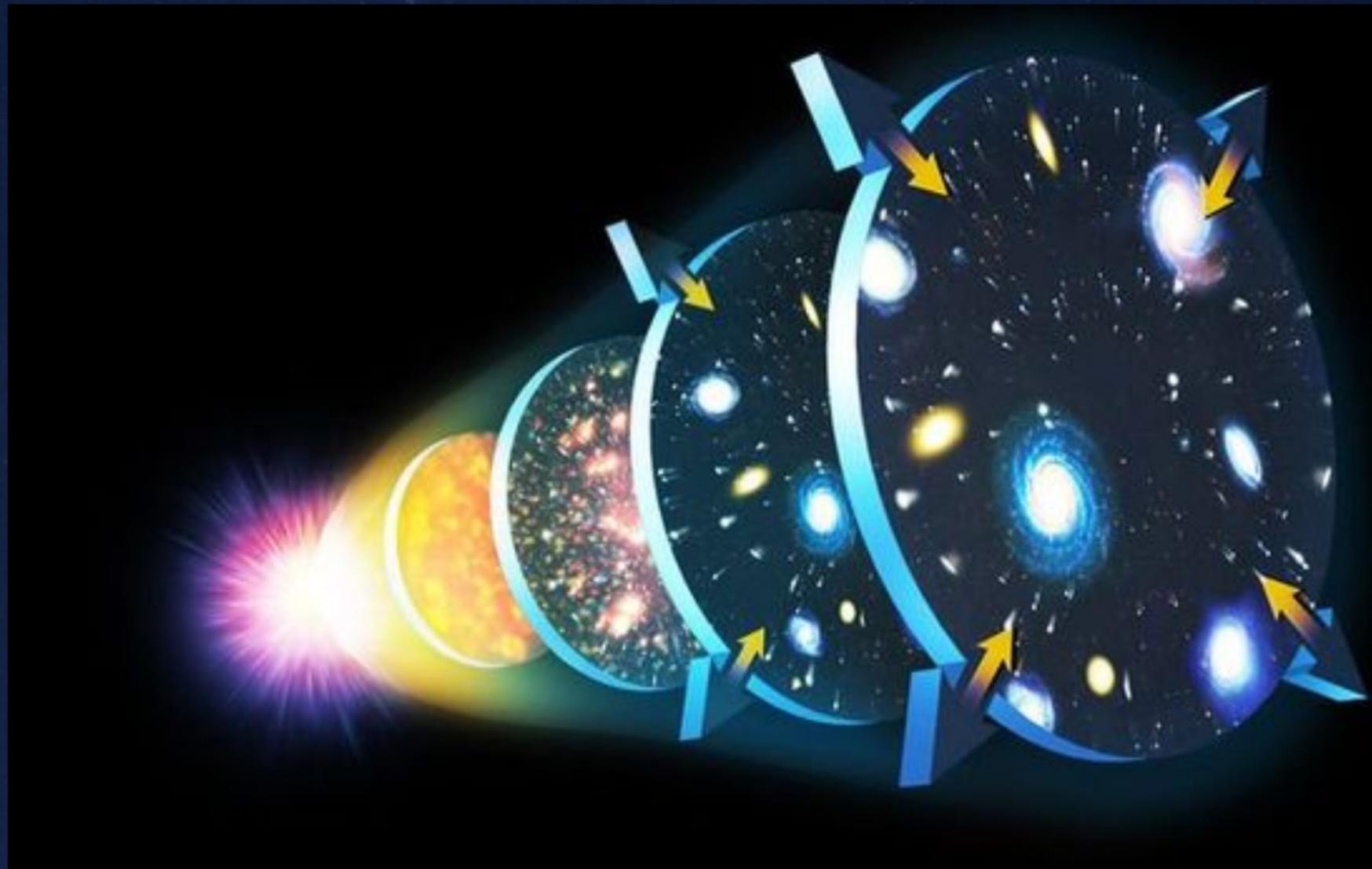
MILKY WAY'S GALACTIC CENTER AS THE CENTER OF UNIVERSE

In 1750, Thomas Wright correctly speculated that the milky way might be a body of a huge number of stars held together by gravitational forces rotating about a **GALACTIC CENTER**, akin to a solar system but on a much larger scale.



OUR EXPANDING UNIVERSE

Hubble discovered that the other galaxies are moving away from us at a rate proportional to the distance from us.

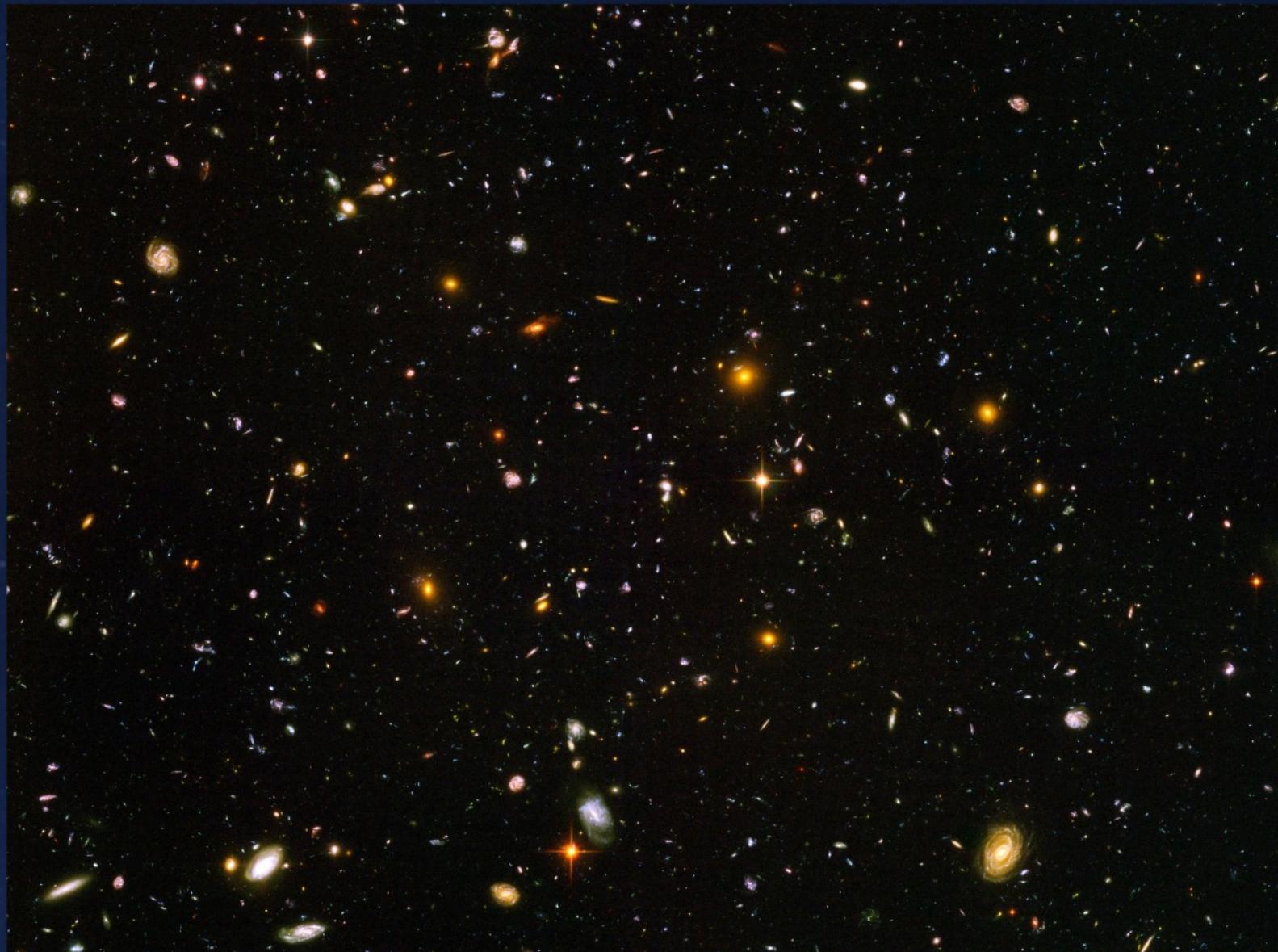


THE NON-EXISTENCE OF A CENTER OF THE UNIVERSE

In 1917, Heber Doust Curtis observed a nova and called as "Andromeda Nebula".

11 more novae were discovered and it was observed that Andromeda nova is much fainter than other novae in the Milky Way.

It concluded that the Andromeda Nova is not a nova in actual but it itself is a separate galaxy which on further observations concluded that there are many such galaxies and Milky Way is just one of them.





OUR ADDRESS

LOCATION OF EARTH IN THE UNIVERSE

ACTIVITY TIMEEE!

Write your address starting from your House number to the Universe and send us.

- For eg. House no., Street Address, City, State, Country, Continent, Earth, Solar System, Orion Spiral Arm, Milky Way Galaxy, Local Group, Virgo Super Cluster, Laniakea Super Cluster, Universe.

WHERE DO WE LIVE?

ADDRESS: Earth, Solar System, Orion Spiral Arm, Milky Way Galaxy, Local Group, Virgo Supercluster, Laniakea Supercluster, Universe.



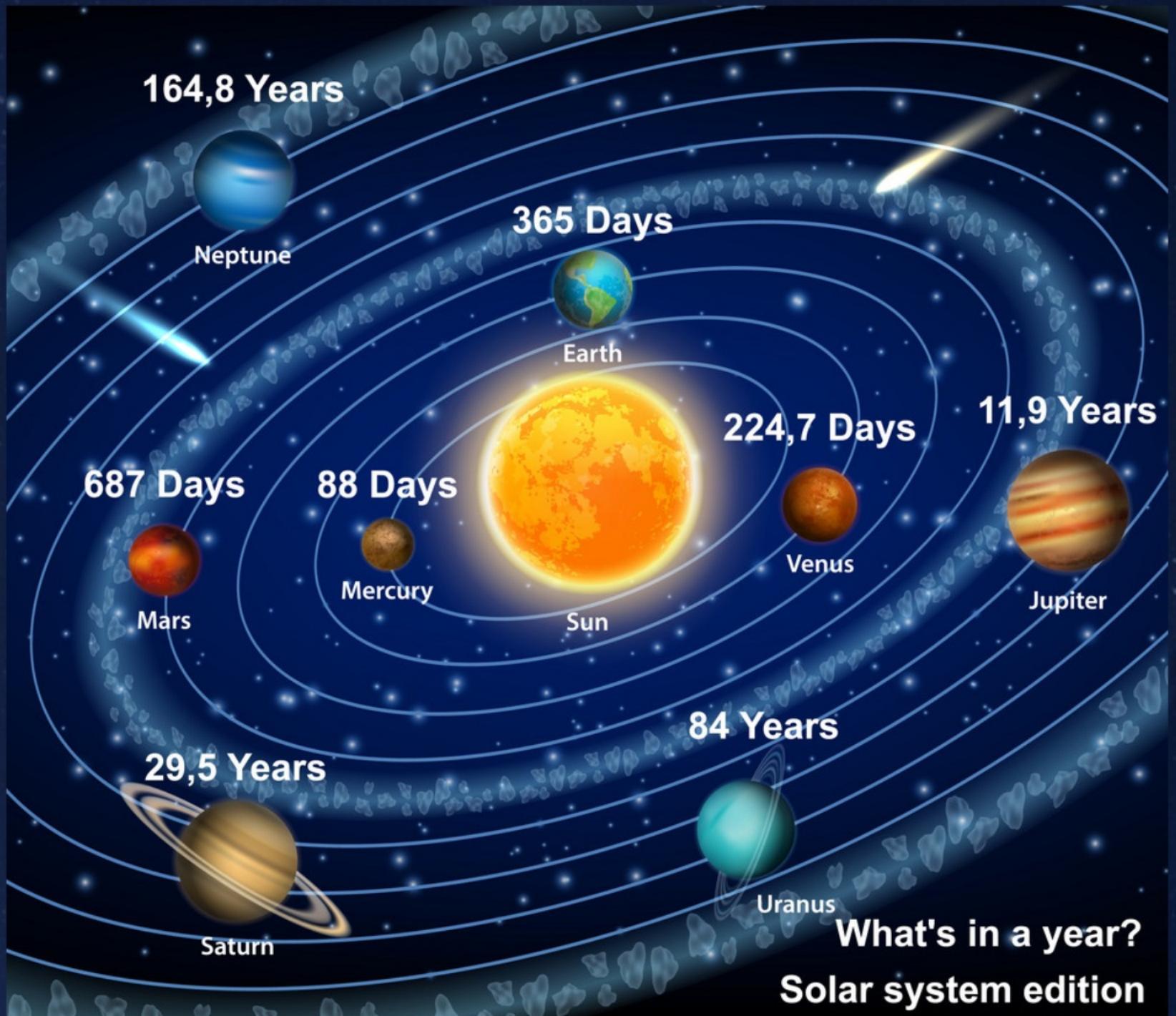
THE EARTH

This is the place which we call home. It has one natural satellite(moon). Till now there is no planet found which supports life. Earth is the only one where the most intelligent species known to us live i.e. Humans.



OUR SOLAR SYSTEM

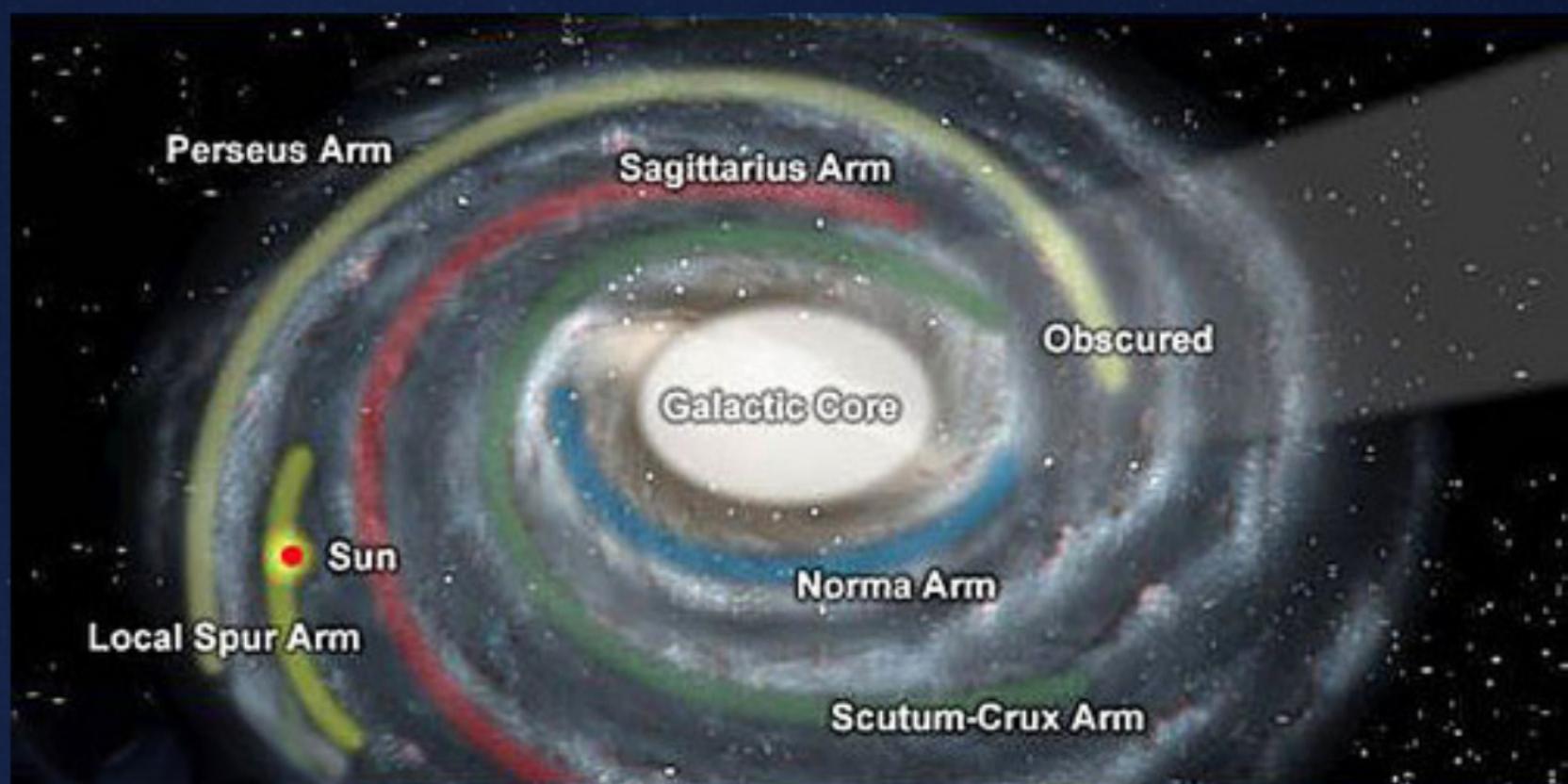
Our Solar System consists of The Sun, eight planets, some dwarf planets, dozens of moons, millions of asteroids, comets and meteoroids.



ORION SPIRAL ARM

The main stars in this arm are in the constellation of Orion and so this spiral gets its name as Orion Arm. It is 3,500 light years across and approximately 10,000 light years in length.

A unit of astronomical distance equivalent to the distance that light travels in one year, which is 9.4607×10^{12} km (nearly 6 million million miles).



MILKY WAY GALAXY

It is a spiral galaxy consisting of trillions of stars including our sun. There are trillions of more galaxies in the universe like Milky Way. The Andromeda Galaxy is the nearest galaxy from it.



Andromeda Galaxy

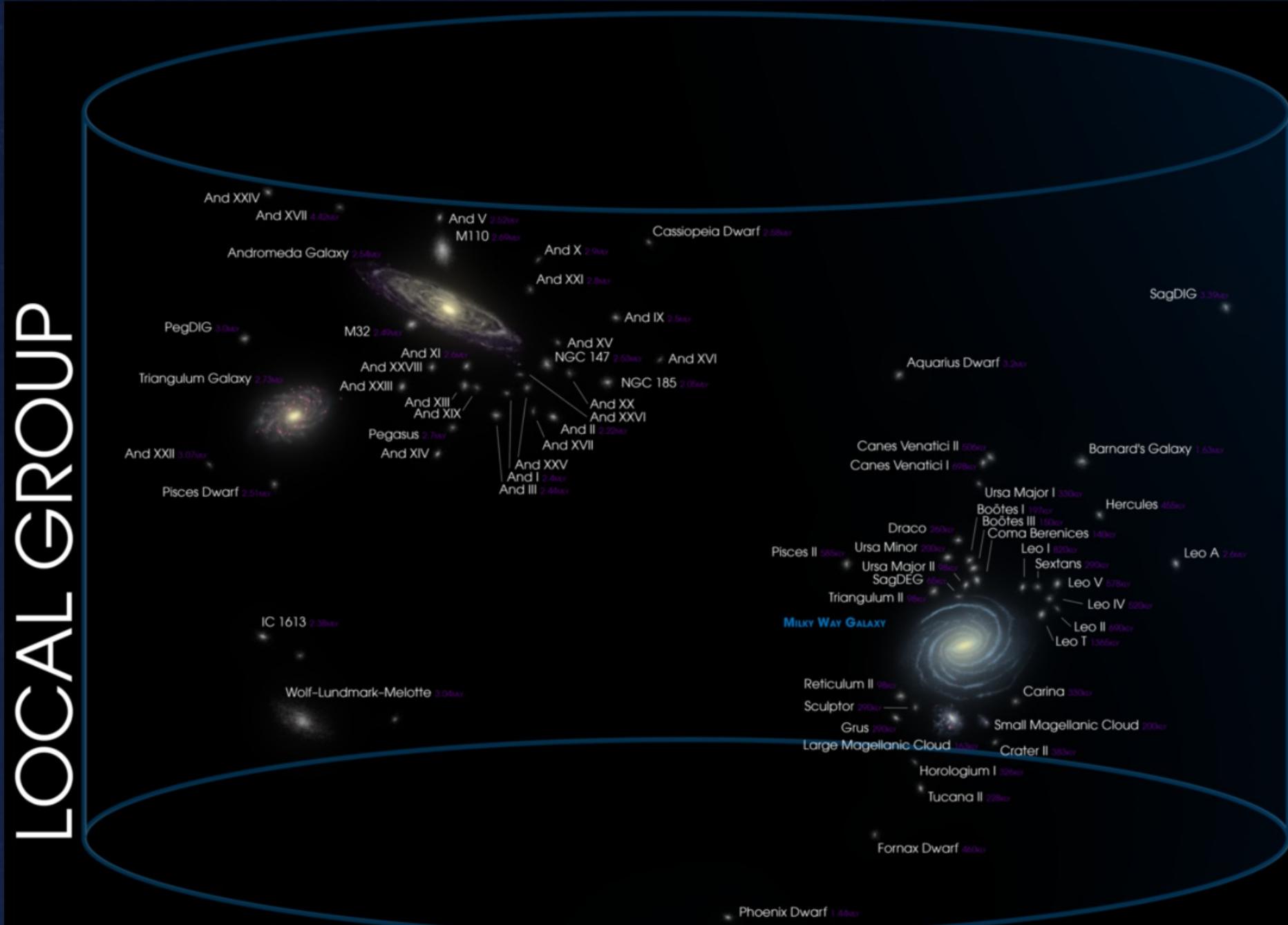


Milky Way

THE LOCAL GROUP

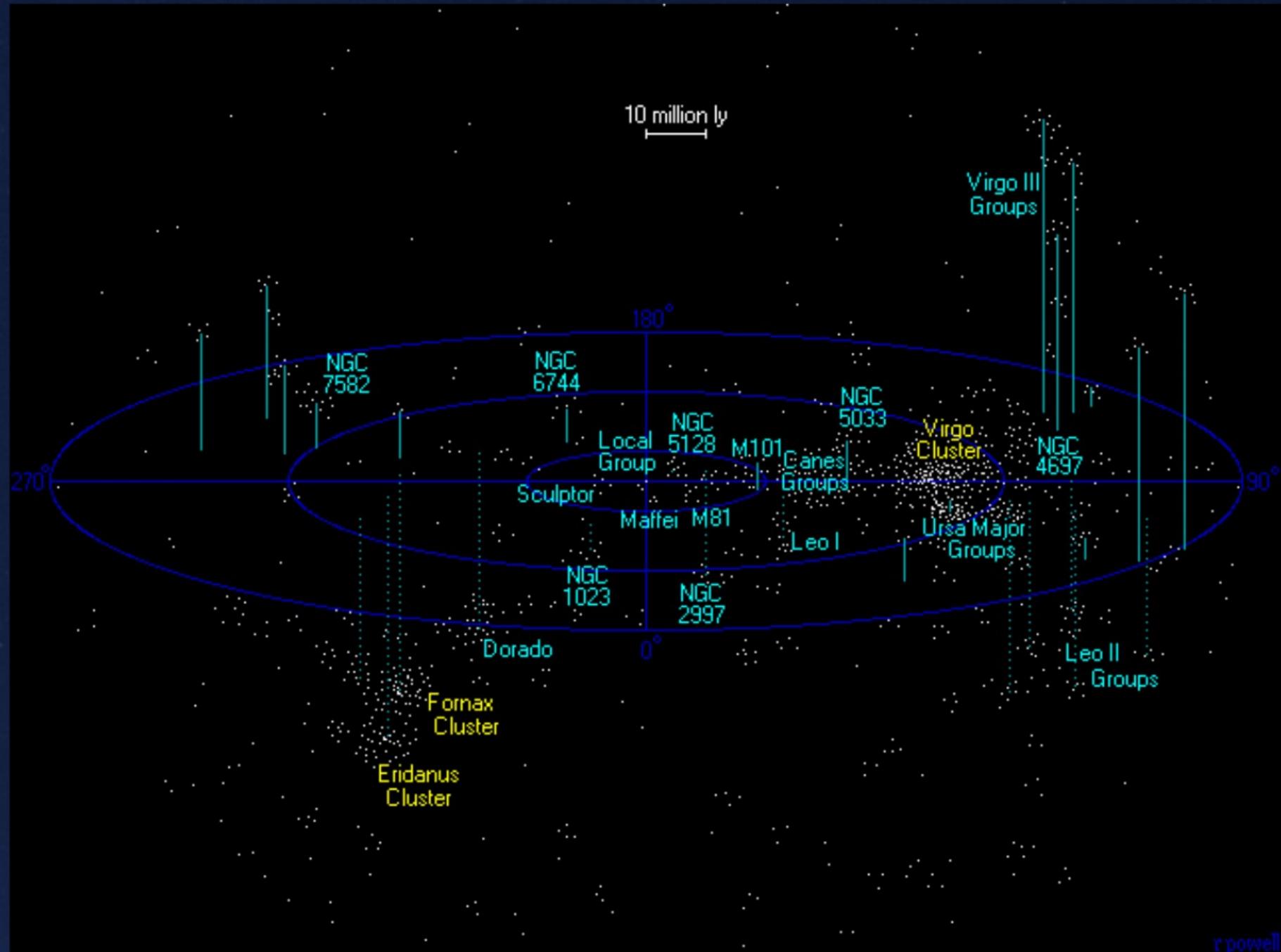
It is local group of nearby galaxies.
It consists of two clusters of galaxies in a "dumbbell" shape: the Milky Way and its satellites form one lobe, and the Andromeda Galaxy and its satellites constitute the other.

LOCAL GROUP



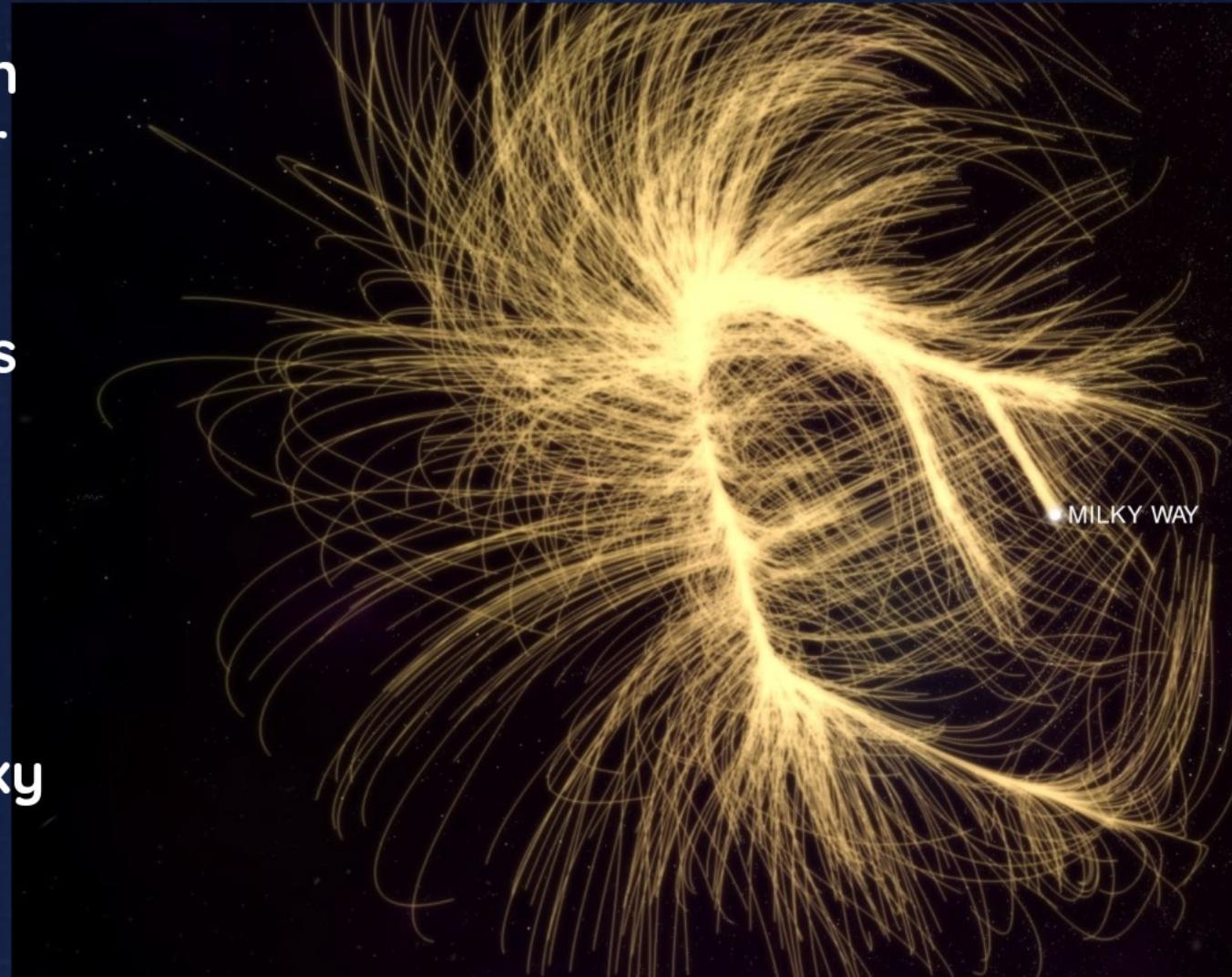
VIRGO SUPER CLUSTER

This super cluster consists of several more groups like our Local Group. For eg. Draco Group, Ursa Major Group etc. There are more super clusters like this in universe. There are 10 million superclusters in the observable universe.



LANIAKEA SUPERCLUSTERS

Laniakea means 'immense heaven' in Hawaiian. In it, over 100000-150000 galaxies reside. It's called superclusters because in it there are many more big clusters in which Virgo, Hydra and Centauras are the most massive galaxy clusters.



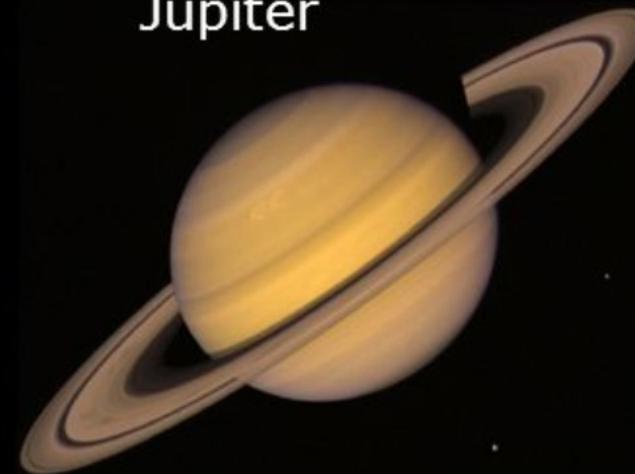


FASCINATING DISCOVERIES

Planets and their Rings

Not only Saturn has rings. Neptune, Uranus and Jupiter have them too.

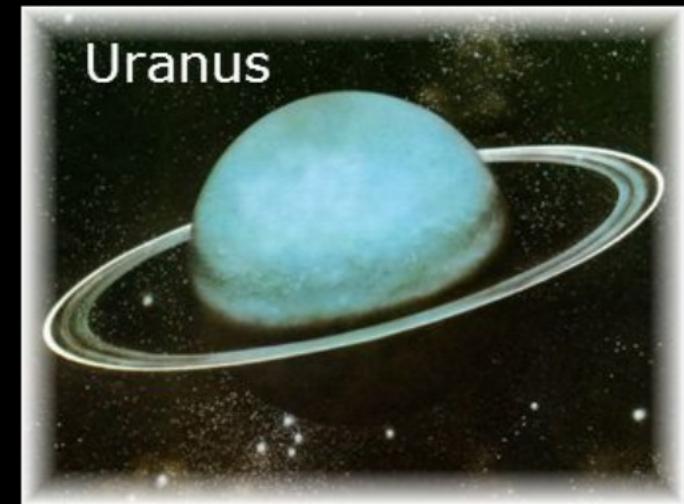
Jupiter



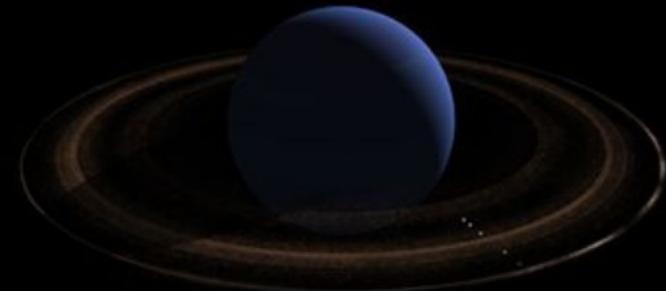
Saturn



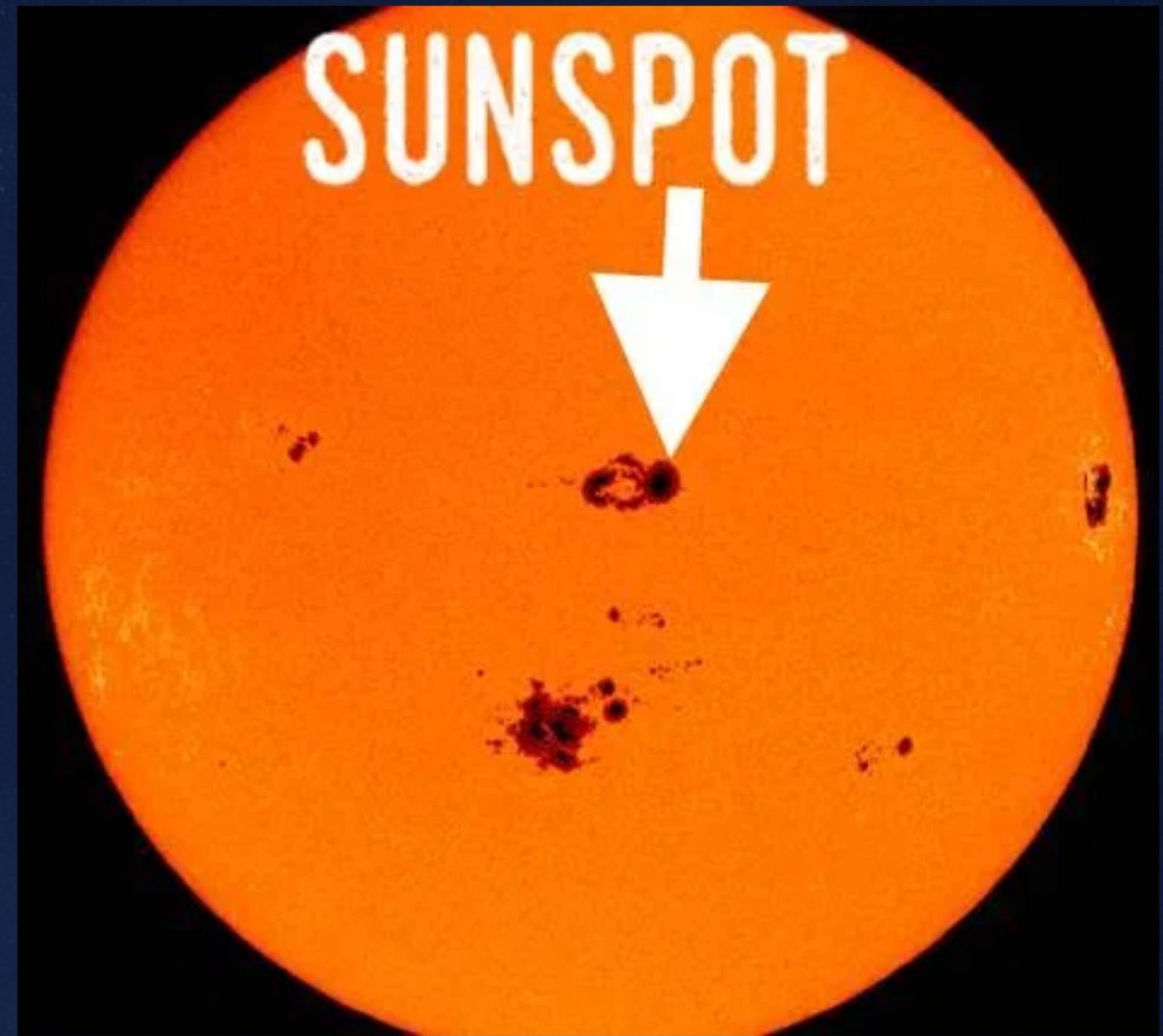
Uranus



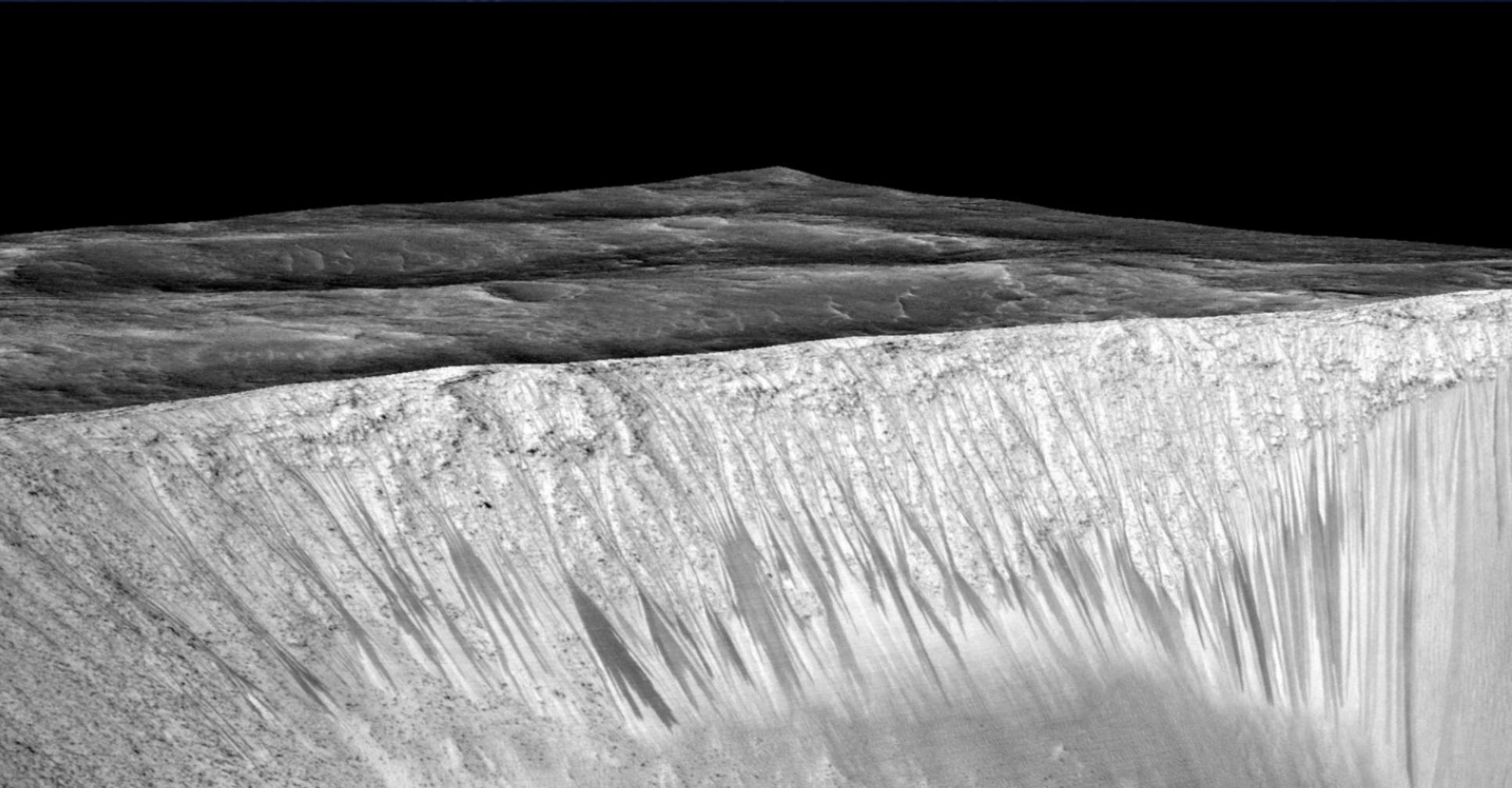
Neptune



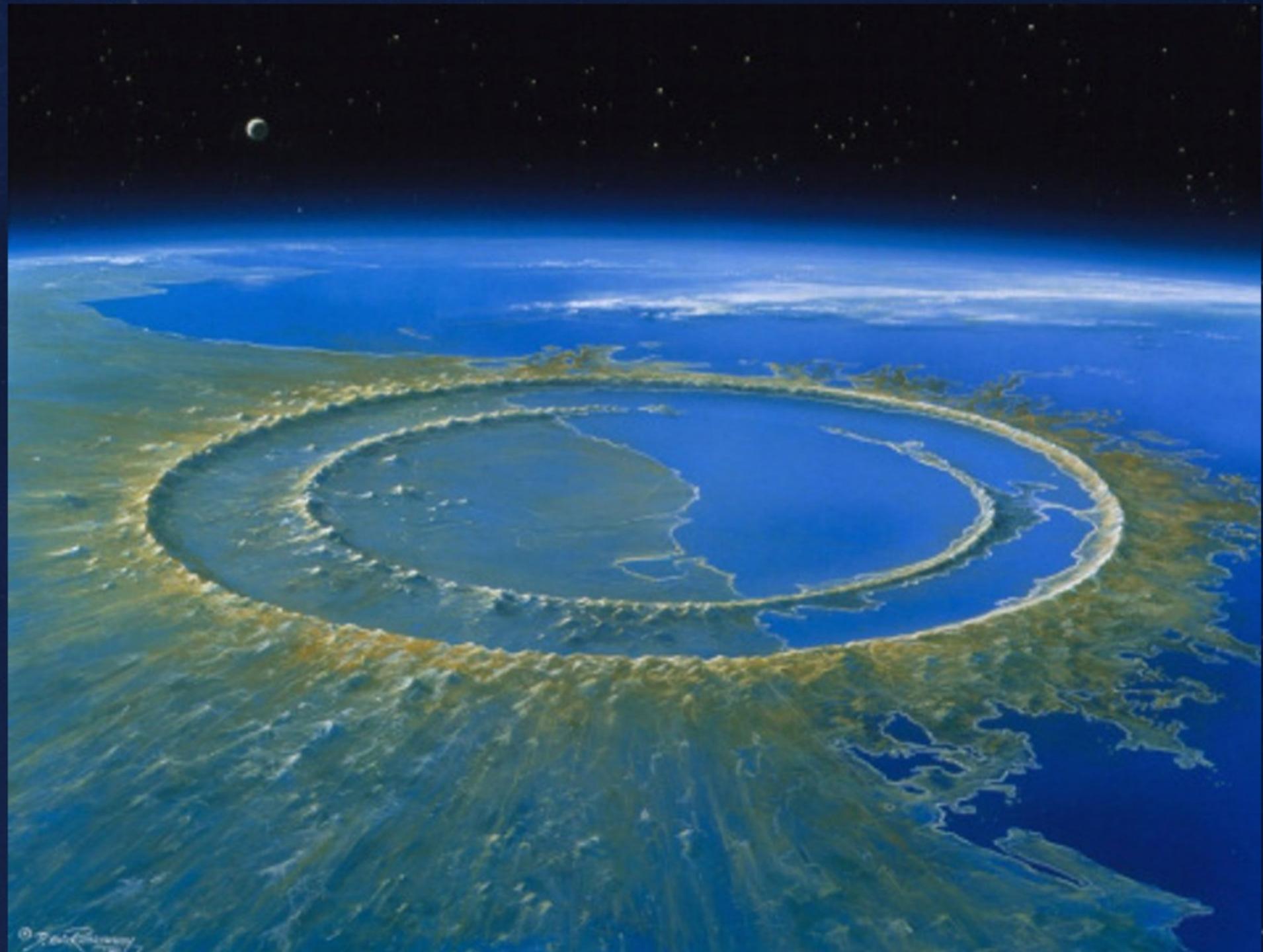
Not all the parts of the sun are of same colour. Some parts of it are darker which are cooler than other parts of the sun. Those are called sunspots.



There is intermittent
amount of water running
on Mars.



An asteroid
about the size of
a car enters
Earth's
atmosphere
roughly once a
year - but it
burns up before
it reaches us.
Phew!



New research has discovered 37 active or recently active volcanic structures on Venus, evidence that our hot, toxic neighbour isn't the dormant planet we thought it was!



ACTIVITY TIME AGAINN.....

Inflate a printed balloon and see how the prints seems bigger.

WANNA READ MORE? CLICK ON THE FOLLOWING LINKS

- ☆ <Https://youtu.be/D4MdwK0Dp5g>
- ☆ <Https://astronormie.blogspot.com/2020/08/the-first-second-of-beginning-big-bang.html>
- ☆ https://en.m.wikipedia.org/wiki/History_of_the_center_of_the_University

THAT'S ALL FOR NOW!

THANK YOU

ANY QUESTIONS?