

Modern Astronomy

Gregory J. Herczeg (沈雷歌)
gjh1@pku.edu.cn

TA: Ziyan XU (ziyanx@pku.edu.cn)

What will we cover?

- How do stars form?
How do they die?
- The Big Bang, galaxy formation, and our future?
- Our solar system!

Questions

- Get up and order yourself based on your hometown, from south to north

Questions

- Get up and order yourself based on how interesting your hobbies are

Questions

- Order yourself in how interested you are in astronomy

Questions

- Order yourself in terms of your major, from the smallest to the largest

Questions

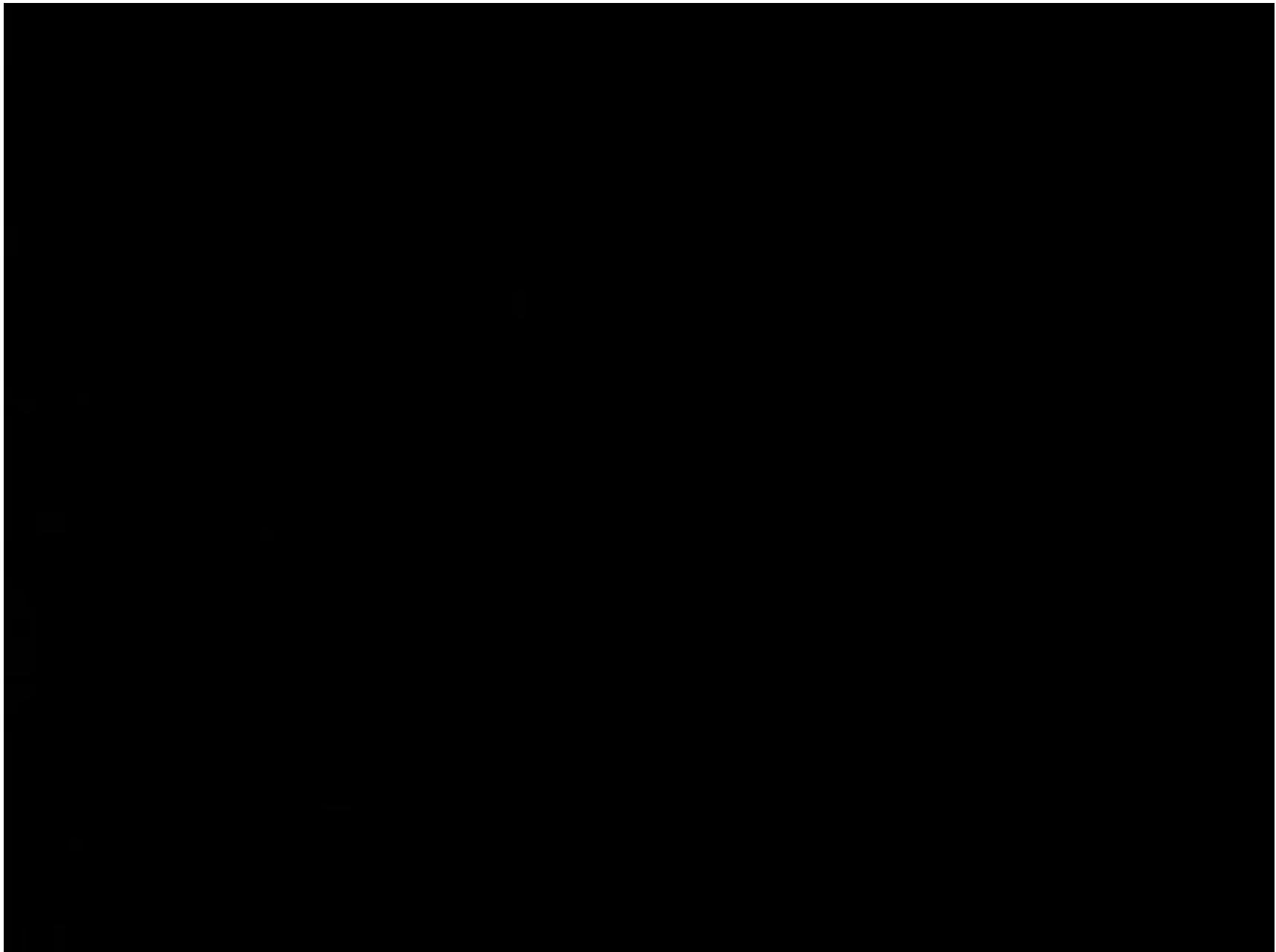
- Order yourself in how important you think science is in your life

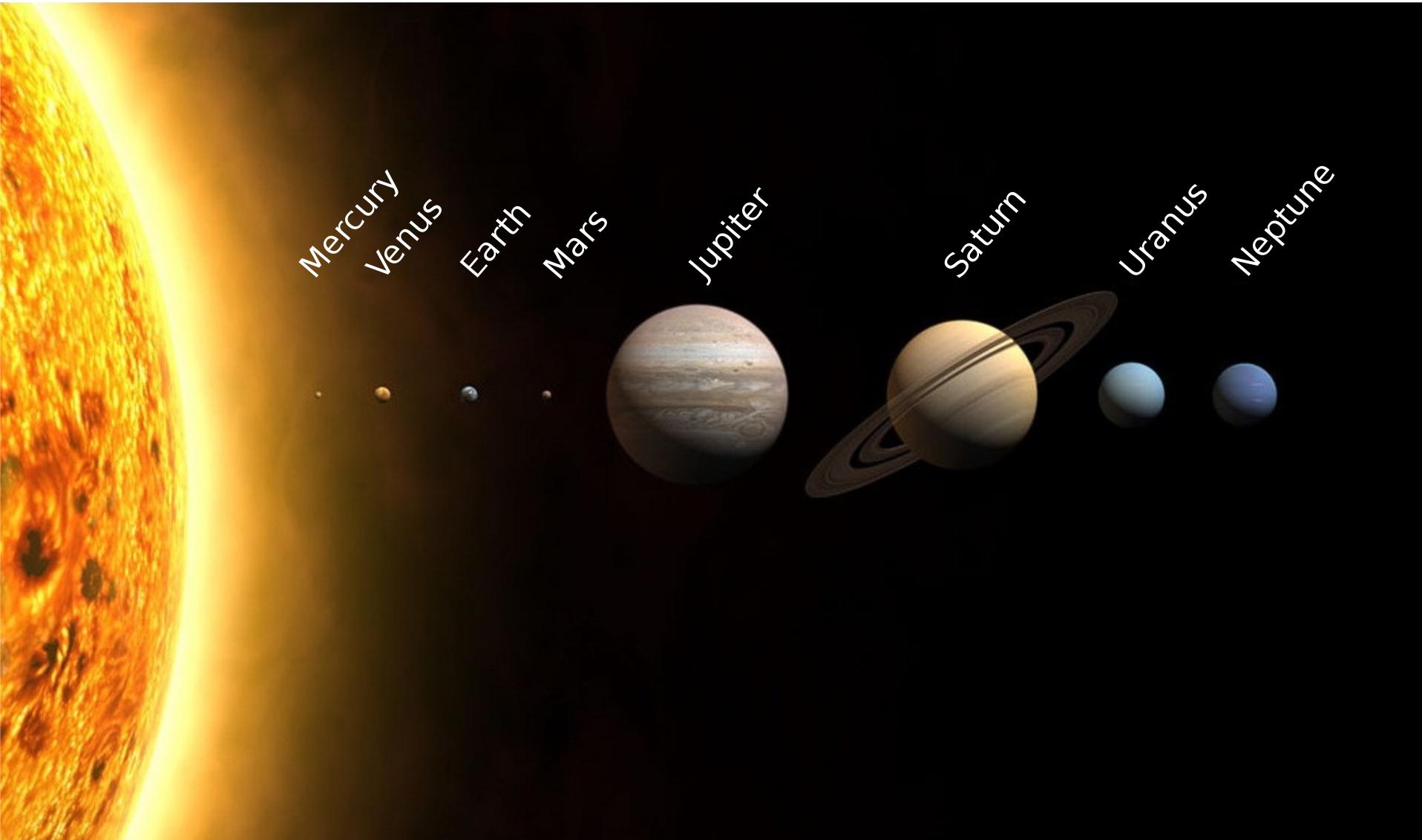
Questions

- Order yourself in how likely you think it is that intelligent life exists elsewhere in the universe

Names and photos

- Write your name IN LARGE LETTERS in pinyin (with tones) and in Chinese characters
- I will take a photo of you later with your name to help me learn who you are





Mercury

Venus

Earth

Mars

Jupiter

Saturn

Uranus

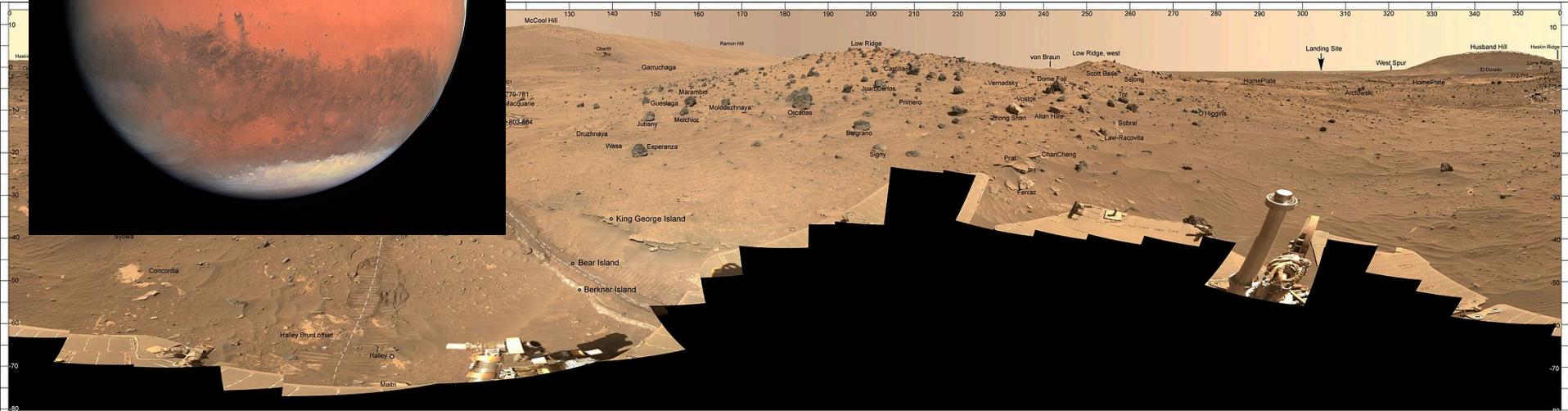
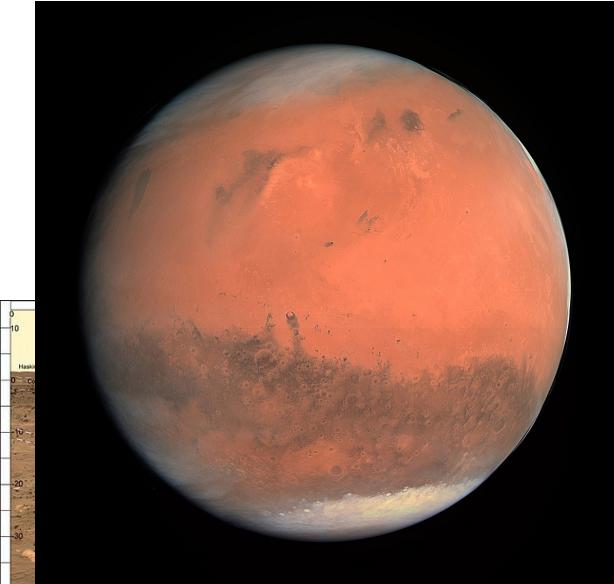
Neptune



**Earth from the Lunar
Reconnaissance Orbiter**



Earth from the Cassini Mission



xkcd comic

SOME PEOPLE COMPLAIN
THAT WE SEE THE WORLD
THROUGH OUR CAMERAS.

KIDS THESE DAYS...



BUT TO ME, THE REALLY
EXCITING PART OF FINDING
SOMETHING NEW

WOW, YOU GOTTA
COME SEE THIS!



HAS ALWAYS BEEN
SHOWING IT TO OTHERS.

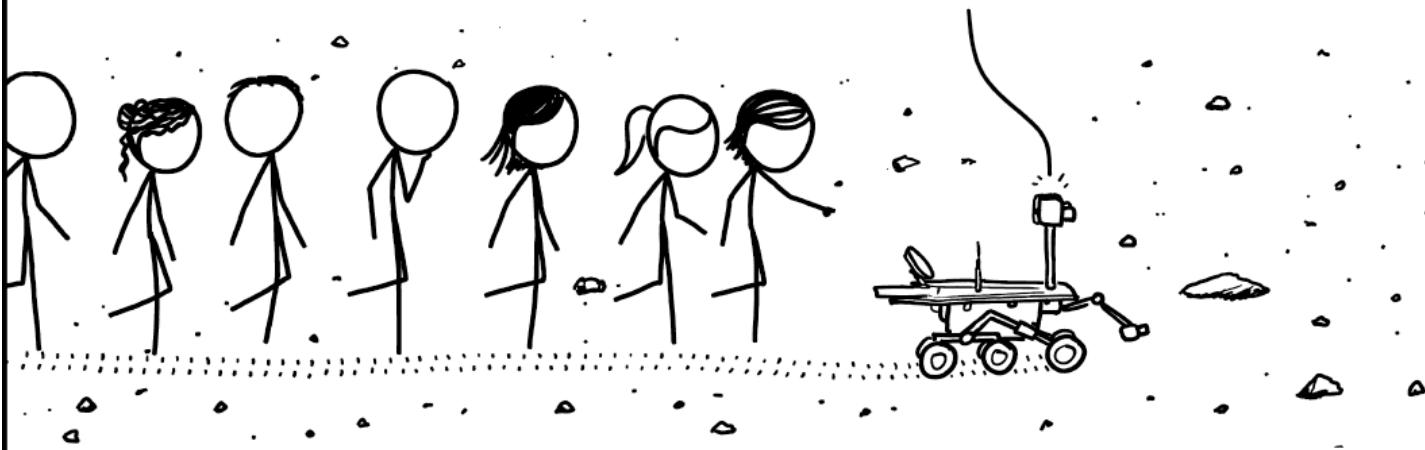
EXPLORING AN
ENTIRE NEW WORLD
WOULD ALREADY BE
THE ADVENTURE
OF A LIFETIME.

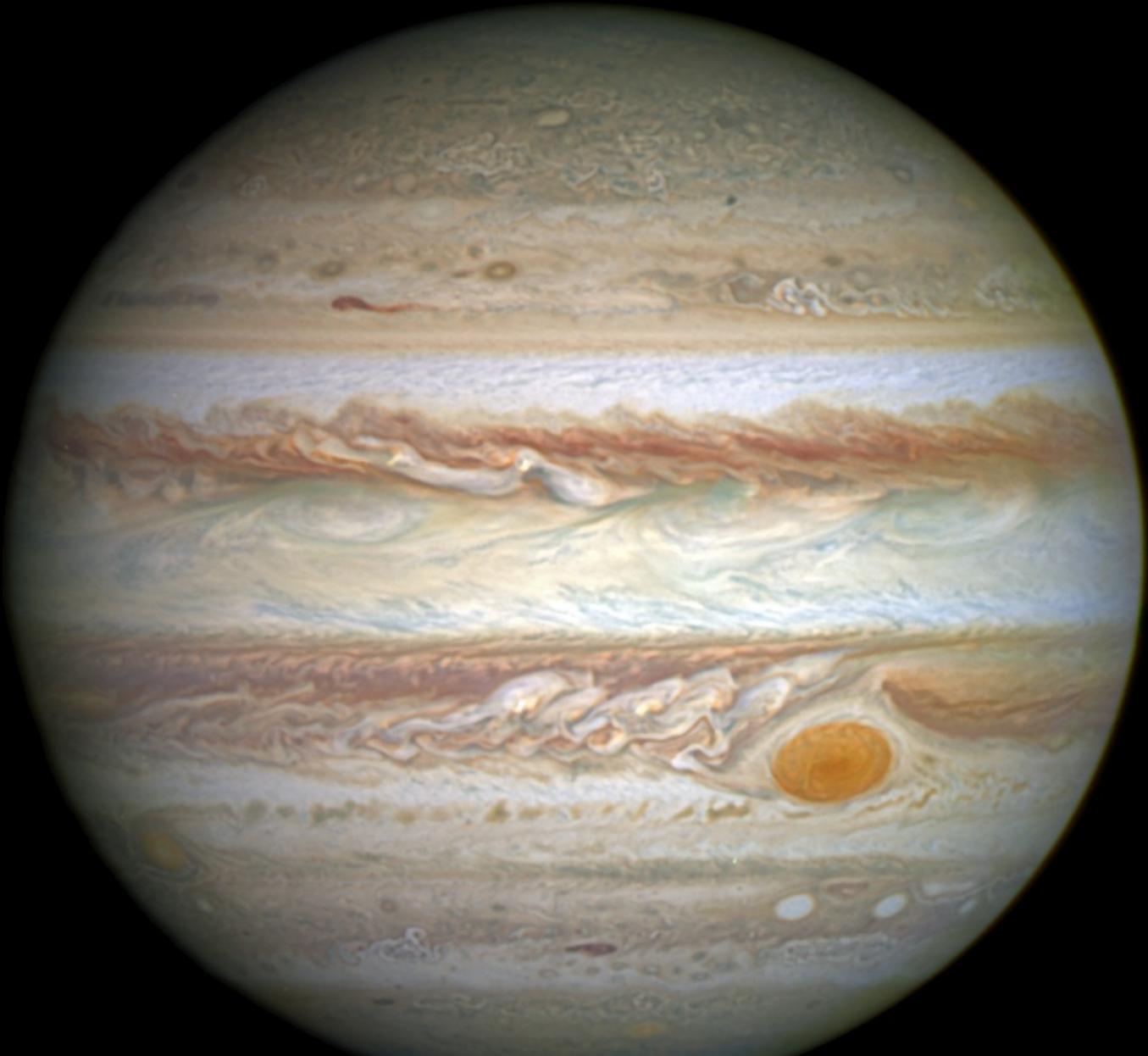


IMAGINE HAVING THE
CHANCE TO SHARE
EVERY NEW SIGHT

WITH SEVEN BILLION FRIENDS.

...AND HERE'S A TRENCH I DUG WITH MY WHEEL, AND HERE'S
WHERE A DUST DEVIL WENT RIGHT PAST ME, AND OVER THERE
IS THE BIGGEST CLIFF I'VE EVER SEEN, AND THIS IS...

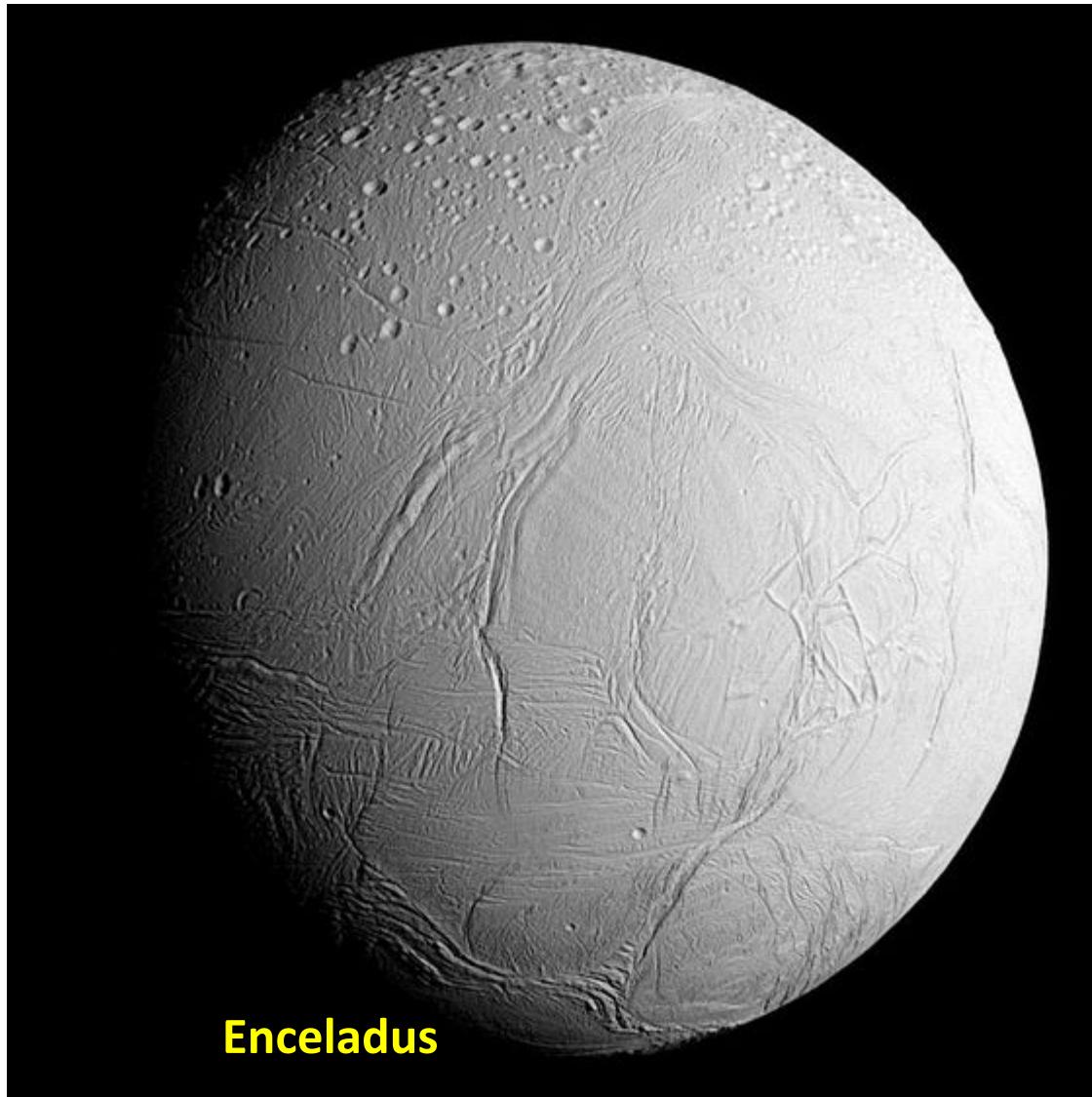




Jupiter from the Hubble Space Telescope



Jupiter from the Juno Mission



Enceladus