

# Scales of the Solar System and Orbits

04/20/21

What is big?

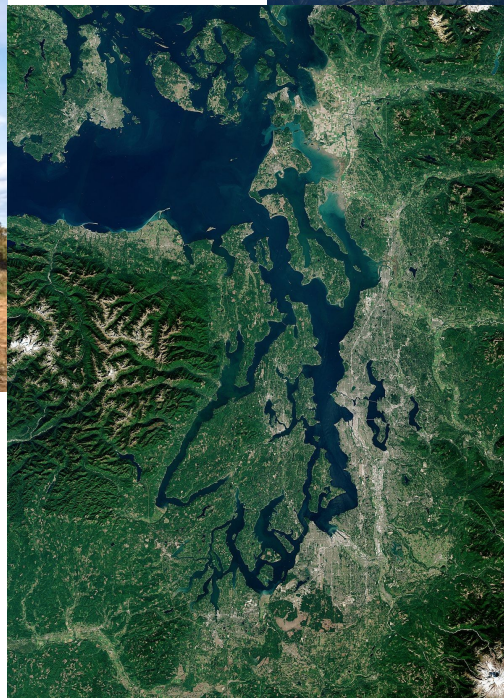
What is big?



What is big?



What is big?



# Size of stars

<https://scaleofuniverse.com/comparison-of-star-sizes/>

# Make a model of the solar system that will fit in your pocket

We will talk about the distances between objects in the solar system

Then we will talk about how those objects move or orbit around the sun

# Planet Sizes in the Solar System \*



Jupiter  
142,800 km



Saturn  
120,660 km



Uranus  
51,118 km



Neptune  
49,528 km



Earth  
12,756 km



Venus  
12,104 km



Mars  
6,779 km



Mercury  
4,879 km



Pluto  
2,377 km

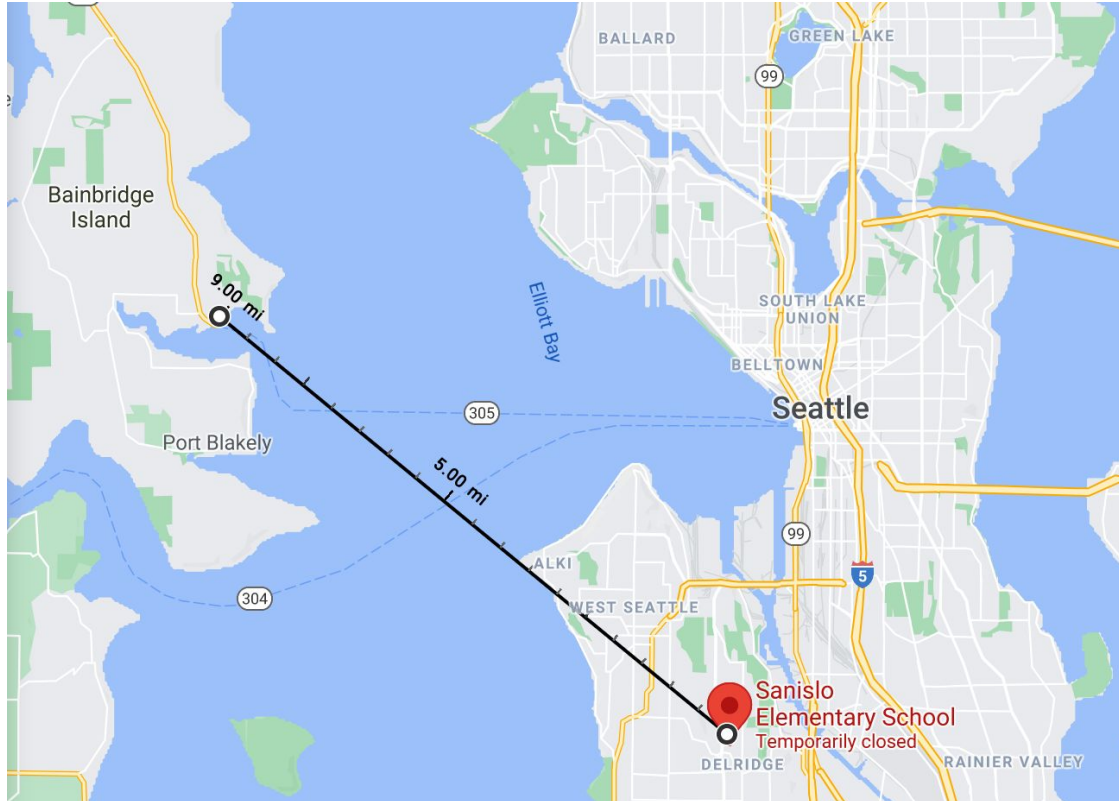
\* Diameters in kilometers



# Venus and Jupiter in the night sky



Closest star on our scale model is at the Bainbridge ferry



# The Milky Way



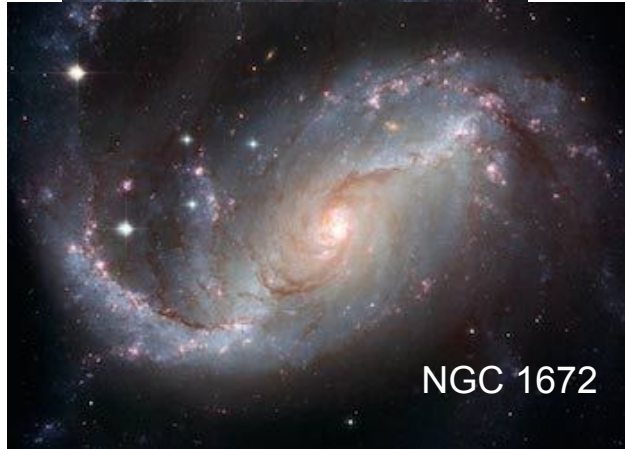
Kevin Palmer  
Photography

# Galaxy shapes

spiral



M74



NGC 1672

ellipsoid



NGC 1132

irregular



NGC 1472A

# Nebula - Clouds of space dust

