



# PERSPECTIVE

SATURDAY, JULY 6, 2019

# THE OVERVIEW EFFECT

The Overview Effect was first observed and documented in astronauts during the Apollo era, often reported during space flight while viewing the Earth. Third party observers, amateur astronomers in this particular context, also report such cognitive shifts. National boundaries vanish, conflicts both political and physical, become less important as the issues that divide us are viewed from a new perspective with the new understanding that our planet, shielded only by a thin atmosphere, is a miniscule and fragile ball of rock moving through an apparent void.

# PERSPECTIVE

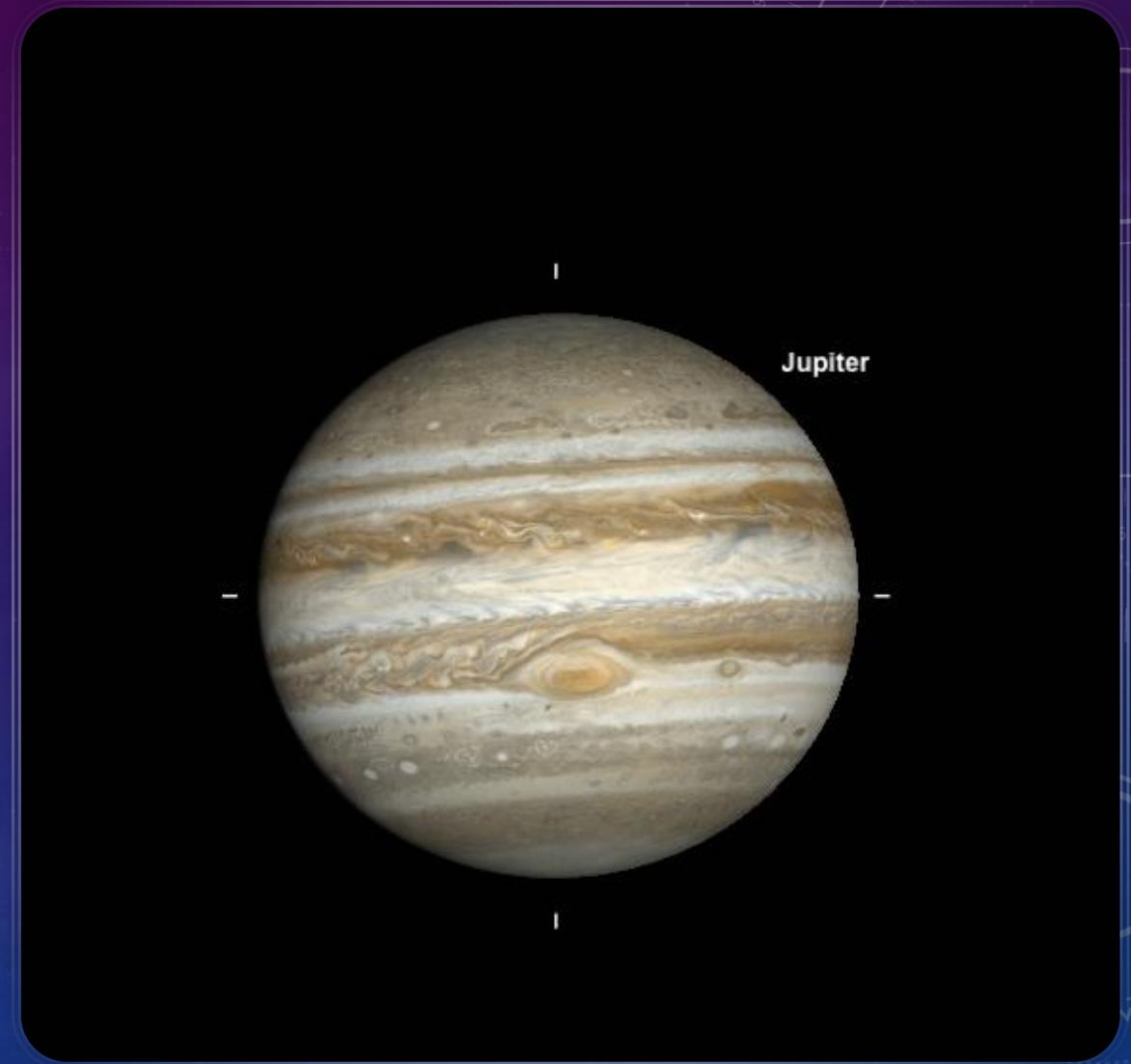
“From out there on the Moon, international politics look so petty. You want to grab a politician by the scruff of the neck and drag him a quarter of a million miles out and say, ‘Look at that, you son of a <crusty astronaut expletive>’”

*Edgar Mitchel, Apollo 14 astronaut, People magazine, 8 April 1974.*

# THE NEIGHBORHOOD

## Jupiter

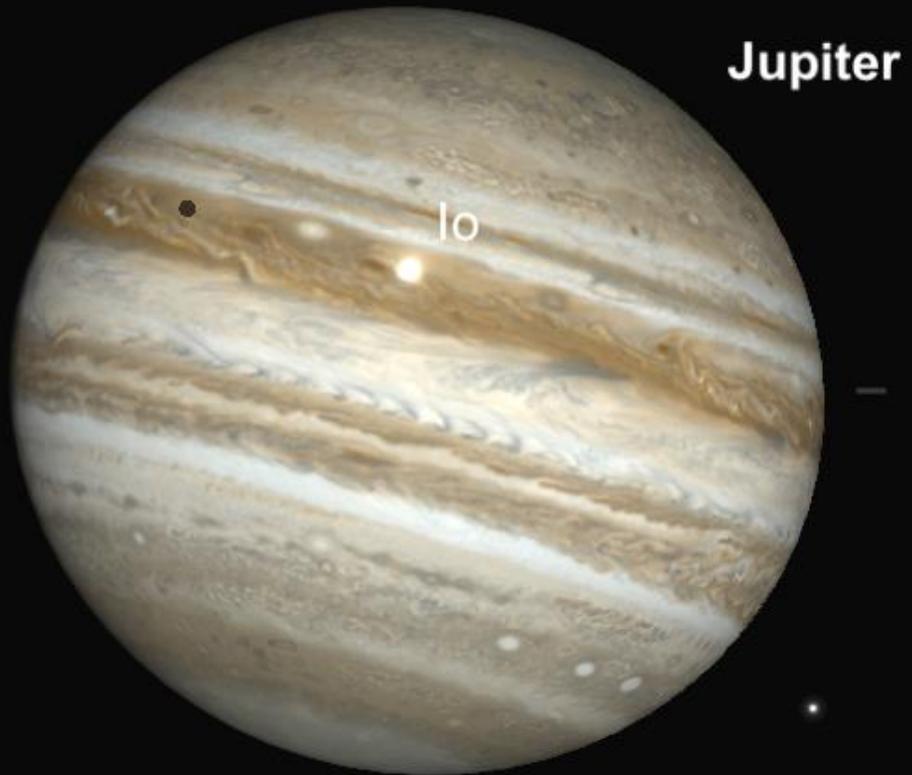
The gas giant that takes one for the team every now and again is still in a favorable position for observing and imaging for the month of July. The Great Red Spot will be nicely composed for imaging and observing at 9:40 p.m. tonight. You'll see the lines and letters through only the most expensive telescopes. Image credit: Sky Safari, Simulation Curriculum Corporation





# THE NEIGHBORHOOD

If you were wondering just how big Jupiter's Great Red Spot is, here's an image to give you some perspective. If you were to cut the globe and lay it flat, it would cover an area roughly the size of the Great Red Spot. Image Credit: NASA



# THE NEIGHBORHOOD

Heads up!

During the wee hours of the morning on Friday July 12, 2019, Io will transit Jupiter and cast its shadow making for a great observing and imaging opportunity! (July 12, 2019 12:45 a.m. Eastern Time)

Submit your Jupiter images and observations to [jupiter@alpo-astronomy.org](mailto:jupiter@alpo-astronomy.org). For more information, visit <http://www.alpo-astronomy.org/jupiterblog>

# THE NEIGHBORHOOD

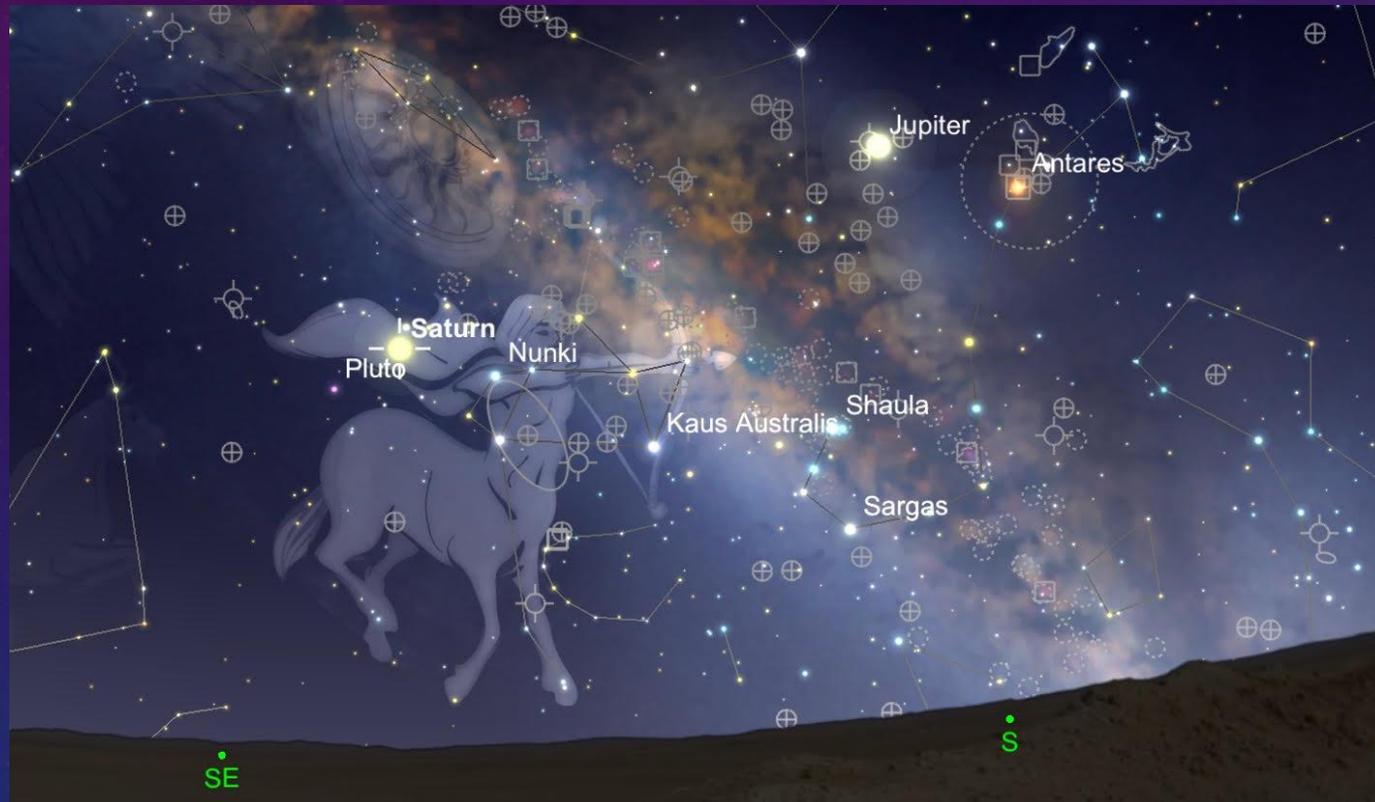
## Saturn

The ringed planet is always a crowd pleaser. If you have a telescope, even a modest one, set it up in your front yard and invite your neighbors over. You'll blow their minds! At 11:00 p.m. tonight, although a bit low on the horizon, Saturn will be well positioned to the east of Sagittarius.

Image Credit: Steve Siedentop



# THE NEIGHBORHOOD



Submit your Saturn images and observations to [saturn@alpo-astronomy.org](mailto:saturn@alpo-astronomy.org). For more information, visit <http://www.alpo-astronomy.org/saturnblog>

# THE WANDERING EARTH

- Chinese science fiction movie on Netflix
- A few gaps in physics for the sake of cinematic flair, but overall it does a good job as a sci-fi movie.
- The human race attempts to move the earth out of the sun's orbit to another star to escape our expanding Sun and runs into an obstacle along the way...



# THE WANDERING EARTH

## Aquila

- "Home" to Altair, one of the three stars in the summer triangle
- Surrounded by a gob of Messier and other notable deep sky objects such as Messier 27, the Dumbbell Nebula in Sagitta, Messier 13, The Hercules Cluster, in Hercules, and a bunch of gobs of deep sky objects in Sagittarius, but at first glance, rather bland.
- In Greek mythology, Aquila is the Eagle charged with carrying the thunderbolts of Zeus.
- Aquila is actually home to a handful of planetary nebula and a globular cluster with 2 one millisecond pulsars.



# THE WANDERING EARTH

Aquila the Eagle



Designation	Type	Common Name	RA	DEC	Notes
NGC 6709	Open Cluster		18h51m18s	+10*19'06"	Mag 6.7, ~100 stars, one red giant
NGC 6781	Planetary Nebula	Snowglobe Nebula	19h18m28s	+06*32'19"	Mag 11, C-shaped, physical structure not understood
NGC 6741	Planetary Nebula	Phantom Streak Nebula	19h02m37s	-00*26'57"	Mag 9, O-III filter shows different structure, N-II shows exceptionally peculiar structure
NGC 6760	Globular Cluster		19h11m12s	+01*01'50"	Contains a 1 millisecond pulsar part of a binary system with a 3.38 hour orbital period!

# THE WANDERING EARTH

NOTABLE OBJECTS IN AQUILA

# PERSPECTIVE

This month, we have a unique opportunity to observe objects within our solar system as well as those light years away. While some of these deep space objects are not necessarily visually exciting, their contemplative value is undeniable. For example, consider the Sun. Now consider what life would be like if it had a companion star that took 3.38 hours to orbit the Sun, which happens to be 109 times the diameter of the Earth. Such speeds are incomprehensible to the human mind.

The Wandering Earth is a great movie on Netflix and a great way to pass the time on cloudy nights. But, the reality is that when you dig in to the facts about the universe around you, reality is so much more incredible than any science fiction show or book could ever be. Hopefully, this gives you some perspective.

# RESOURCES

- SkySafari, Simulation Curriculum Corporation
- Annals of the Deep Sky Volume 2, Jeff Kanipe and Dennis Webb, Willmann-Bell, 2015
- Observer's Handbook, Edited by James. S. Edgar, Royal Astronomical Society of Canada, 2019