

Bibliography

Primary Sources

Charon's Night Side. Photograph. Photojournal. January 29, 2016. Accessed September 30, 2021.
<https://photojournal.jpl.nasa.gov/beta/catalog/PIA20375>.

This is a picture taken by the LORRI telescope during New Horizon's flyby. It shows Charon's night side barely visible by light reflected off of Pluto.

Clyde W. Tombaugh, Bust Portrait, Facing Slightly Left. 1960. Photograph.
<https://www.loc.gov/item/2001697002/>.

This is a photograph of Clyde W. Tombaugh. He was the astronomer who ultimately found Pluto, with credits to William H. Pickering.

Declaring Pluto a Planet and Declaring March 13, 2007, "Pluto Planet Day" at the Legislature, H.R.J. Res. 54, 2007 Leg., First Session (N.M.). Accessed November 22, 2021.
<https://www.nmlegis.gov/sessions/07%20regular/memorials/house/HJM054.html>.

This is New Mexico's legislature declaring Pluto a planet in New Mexico, and dedicating March 13 as "Pluto Planet Day." This shows the level controversy escalated, which is increasingly significant as New Mexico is an international center for astronomy, and more specifically, planetary science.

"IAU 2006 General Assembly: Result of the IAU Resolution Votes." Paper presented at IAU 2006 General Assembly: Result of the IAU Resolution Votes, Prague, Czech Republic, August 24, 2006. <https://www.iau.org/news/pressreleases/detail/iau0603/>.

This is the official recording of the conference in Prague, where they made the final decision concerning Pluto and other TNOs. This resulted in Resolution 5A, Resolution 5B, Resolution 6A, and Resolution 6B.

Luckovich, Mike. "Mike Luckovich's Editorial Cartoons." Cartoonist Group. Last modified August 25, 2006. Accessed February 18, 2022.
<https://www.cartoonistgroup.com/cartoon/Mike+Luckovich%27s+Editorial+Cartoons/2006-08-25/14541>.

This political cartoon shows, and symbolizes the public's reaction to Pluto's reclassification. As this was such a heated, and confusing debate with multiple proposals on the reclassification of these solar system objects, many of the public did not see the reasons and data that went behind these decisions, and ideas. Likewise, to the public they seemed extreme, and at some points needless.

PIA03034: Tenth Planet Discovered. Photograph. August 3, 2005.
<https://photojournal.jpl.nasa.gov/catalog/PIA03034>.

These are a series of 3 photographs taken 90 minutes apart of Eris. It was taken by the Samuel Oschin Telescope, by the Palomar Observatory near San Diego, CA.

PIA20202: New Horizons' Very Best View of Pluto. Photograph. December 12, 2015.

<https://photojournal.jpl.nasa.gov/catalog/PIA20202>.

This is a photograph of Pluto from the New Horizon's 2015 flyby taken by the telescope LORRI, at 1,700 kilometers. This photograph was taken by the Johns Hopkins University Applied Physics Laboratory, located in Laurel, Maryland.

PIA21863: Soaring over Pluto. Photograph. July 14, 2017.

<https://photojournal.jpl.nasa.gov/catalog/PIA21863>.

This is a photo taken by the New Horizon's Mission, using the telescope LORRI. Also attached is a video created out of elevation models of Pluto and New Horizon's data.

Pluto Topography and Composition Map. Photograph. Photojournal. September 28, 2017.

Accessed September 30, 2021. <https://photojournal.jpl.nasa.gov/beta/catalog/PIA22036>.

This is a map of Pluto comparing Pluto's topography, and composition. This demonstrates the increased amount of information that we have now due to the advancement of technology, as well as geography being a big factor in the debate.

Side Elevation, Looking North - Lowell Observatory, Pluto Dome, 1400 West Mars Road, Flagstaff, Coconino County, AZ. 1933. Photograph.

<https://www.loc.gov/resource/hhh.az0374.photos/?sp=4>.

This is a photograph of the Lowell Observatory in 1933. The Lowell Observatory is the place that Clyde Tombaugh compared the photographic plates and found Pluto.

Soaring over Pluto. Photograph. Planetary Data System. July 14, 2017. Accessed September 30, 2021. <https://photojournal.jpl.nasa.gov/beta/catalog/PIA21863>.

This is a photograph of Pluto taken by the LORRI telescope, during New Horizon's flyby. It also discusses some of the geological features found on Pluto.

Secondary Sources

American Academy of Achievement. "Clyde Tombaugh." Academy of Achievement. Last modified February 23, 2019. Accessed September 19, 2021.

<https://achievement.org/achiever/clyde-tombaugh/#biography>.

This article discusses the life of Clyde Tombaugh, including his discovery of Pluto. It also includes video clips of an interview taken with Clyde Tombaugh, and several pictures.

Beatty, J. Kelly. "Brian G. Marsden (1937-2010)." Sky and Telescope. Last modified November 18, 2010. Accessed September 19, 2021.

<https://skyandtelescope.org/astronomy-news/brian-g-marsden-1937-2010/>.

This article discusses the life and accomplishments of Brian Marsden. He was very influential at the time of Pluto's debate as the director of both the CPU, and the CBAT.

- Berthold, Emma. "Pluto's Planetary Predicament." Australian Academy of Science. Last modified July 2, 2020. Accessed August 25, 2021.
<https://www.science.org.au/curious/space-time/plutos-planetary-predicament>.
 This article mainly discusses the IAU's ruling of Reference 5A, as well as lists out the criteria that planets fall under. It also focuses on the retaliation of those who disagreed with this statement, and some of the ways people responded to that.
- Bryner, Jeanna. "The Great (and Sometimes Serious) Debate about Pluto." Space.com. Last modified August 15, 2008. Accessed August 24, 2021.
<https://www.space.com/5732-great-debate-pluto.html>.
 This article discussed a debate held between two directors discussing their opposing views on Pluto. The article also explained, through a brief overview, the debate as it's gone on since 1930, and has been affected several times by new discoveries.
- Bunthorne. "Pluto - the Planet That Was." Bunthorne's Person Place or Thing. Last modified August 29, 2011. Accessed February 16, 2022.
<http://bunthorne.blogspot.com/2011/08/pluto-planet-that-was.html>.
 This webpage explains how Pluto was discovered, its classification, and the importance of this classification system. The author also explains their views on how classification systems, in general, evolve with the presence of new information.
- California Institute of Technology. "How I Killed Pluto and Why It Had It Coming." CalTech. Last modified December 7, 2010. Accessed September 13, 2021.
<http://web.gps.caltech.edu/~mbrown/howikilled.html>.
 This is a book review of the memoir written by Mike Brown. He is credited as the discoverer of Eris, and is an advocate against Pluto being a planet. Likewise, these things are discussed in his book.
- Corey, R. "Is Pluto a Planet Again?" University of Southern Maine. Last modified 2021. Accessed August 27, 2021. <https://usm.maine.edu/planet/pluto-planet-again>.
 This article discussed the perturbations in Neptune's orbit believed to have been caused by Pluto, Charon's discovery, and the IAU's decision. However, It also discussed the geological activity found by the New Horizon's Mission.
- David, Leonard. "Clyde Tombaugh's Family Joins Protest of Pluto's Downgrade." Space. Last modified September 5, 2006. Accessed February 10, 2022.
<https://www.space.com/2848-clyde-tombaugh-family-joins-protest-pluto-downgrade.html>.
 This article discusses the impact the IAU's definition of a planet had. It includes pictures and quotes from those protesting in New Mexico, where they later passed bill declaring Pluto a planet.

DeVorkin, David. "Finding Pluto with the Blink Comparator." National Air and Space Museum. Last modified May 14, 2015. Accessed September 30, 2021.

<https://airandspace.si.edu/stories/editorial/finding-pluto-blink-comparator>.

This article discusses how Clyde Tombaugh used the blink comparator to find Pluto. It also talks about how it came to be on display at the Smithsonian National Air and Space Museum.

IAU. "Pluto and the Developing Landscape of Our Solar System." International Astronomical Union. Last modified 2021. Accessed September 23, 2021.

<https://www.iau.org/public/themes/pluto/>.

This article gives a very professional outlook on the whole debate surrounding Pluto. It also includes answers to some of the most common asked questions.

"Kavli Prize Laureate Lecture: Discovery of the Kuiper Belt." The Kavli Prize. Last modified June 8, 2013. Accessed February 9, 2022.

<https://kavliprize.org/events-and-features/kavli-prize-laureate-lecture-discovery-kuiper-belt>.

This article discusses the major discovery of the Kuiper Belt which is credited to David Jewitt and Jane Luu. For this, they received The Kavli Prize in astrophysics.

Keenan, Marie. "136199 ERIS." *Space Science/Astronomy: Celestial Bodies*, September 2014, 1.

<https://search.ebscohost.com/login.aspx?direct=true&db=sch&AN=110911703>.

This article discusses the dwarf planet Eris. It goes into the discovery of Eris, and the significant role it played in the debate concerning Pluto.

Library of Congress. "Why Is Pluto no Longer a Planet?" Science Reference Section. Last modified November 19, 2019. Accessed August 23, 2021.

<https://www.loc.gov/everyday-mysteries/item/why-is-pluto-no-longer-a-planet/>.

This article states the requirements that define a planet, as well as having some pictures of Pluto. It also goes into the history of the discovery of Pluto, and the search for it.

Mann, Adam. "Why Isn't Pluto a Planet Anymore?" Space.com. Last modified March 28, 2019.

Accessed August 27, 2021. <https://www.space.com/why-pluto-is-not-a-planet.html>.

This article discusses the heated debate surrounding Pluto, and the decision that was made concerning it. It also goes into the history of the definition of a planet, as well as the impact that the IAU's decision had.

Margot, Jean-Luc. "A Quantitative Criterion for Defining Planets." *The Astronomical Journal*. Last modified December 1, 2015. Accessed October 6, 2021.

<https://iopscience.iop.org/article/10.1088/0004-6256/150/6/185>.

The author explains a way to clarify the IAU's planet definitions using a metric to do so. Using what Soter described as the "Dynamical-dominance criterion," this could help clarify where the IAU's definition is vague on to what extent qualifies a planet as having cleared its orbital zone during a certain amount of time.

NASA. "Eris." Solar System Exploration. Last modified August 6, 2021. Accessed September 14, 2021. <https://solarsystem.nasa.gov/planets/dwarf-planets/eris/in-depth/>.

This webpage goes into the facts of Eris. It has many good pictures, and an in depth section that compares the stats of Eris and Earth.

———. "Pluto." Solar System Exploration. Last modified August 5, 2021. Accessed September 30, 2021. <https://solarsystem.nasa.gov/planets/dwarf-planets/pluto/overview/>.

NASA gave an overview of facts and history, but also went more in depth comparing Earth to Pluto. Although, it did not discuss the debate, I will use these facts for the basis of my project.

———. "Venetia Burney Phair (1918-2009)." Solar System Exploration. Last modified 2022. Accessed February 9, 2022.

<https://solarsystem.nasa.gov/people/2902/venetia-burney-phair-1918-2009/>.

As the only woman to name an object in the solar system, Venetia Burney had a largely historical and scientific impact. This explains this impact and includes a section of an interview with her.

Neil. "The Kuiper Belt and Its Relation with Pluto." Our Pluto. Last modified May 10, 2019. Accessed February 8, 2022.

<https://www.ourpluto.org/the-kuiper-belt-and-its-relation-with-pluto/>.

The website is dedicated to Pluto and discusses ideas and events about it. This article explains where the Kuiper Belt is located, its theorized origins, and its discovery.

Siegel, Ethan. "This Is Everything That's Wrong with Our Definition of 'Planet.'" Forbes. Last modified July 9, 2019. Accessed October 6, 2021.

<https://www.forbes.com/sites/startswithabang/2019/07/09/this-is-everything-thats-wrong-with-our-definition-of-planet/?sh=125958a12a6c>.

This article explains how before the IAU's definition, there wasn't a set definition for the term 'planet'. It also discusses how through astronomical advancements and discoveries, our view and knowledge of our solar system began to deepen and it explains the impact that it had on our view of Pluto.

———. "You Won't like the Consequences of Making Pluto a Planet Again." Forbes. Last modified May 8, 2018. Accessed October 6, 2021.

<https://www.forbes.com/sites/startswithabang/2018/05/08/you-wont-like-the-consequences-of-making-pluto-a-planet-again/?sh=3f6916c43422>.

This article discusses some of the lasting consequences of the IAU's definition of a planet. It also explains some of the problems this definition created for exoplanet astronomers, planetary scientists, and galactic astronomers.