

Annotated Bibliography

Primary & Secondary Sources

Primary Sources

Boyle, A. (2003, June 3). Sputnik started space race, anxiety. Retrieved from http://www.nbcnews.com/id/3077890/ns/technology_and_science-space/t/sputnik-started-space-race-anxiety/#.XhKP5fLYq01.

This site is a good summary of the sequence of events that caused Sputnik to be launched and the consequences from the Sputnik launch. The site also gives good quotes, that I can use for my website. This site also tells the consequences of Sputnik in an economics point of view. This site also explains how Sputnik changed the education system. The Sputnik launch made America concentrate on the education system.

Cadbury, Deborah. (2007, June 26). Space Race: The epic battle between America and the Soviet Union for Dominion of Space.

This is a book that describes the tensions between America and USSR. The book describes both von Braun and Sergei Korolev, the two important men on each side. It also describes the politics happening at that period of time.

Collins, C. C. (2019, August 5). A Short History of Roscosmos and the Soviet Space Program. Retrieved from <https://www.thoughtco.com/soviet-space-program-history-4140631>

This is the history of the Soviet Space program. The Soviet Space program is the one that funded for the building of Sputnik-1. This site explains the thinking that went into the making of Sputnik and the founding of the Soviet Space Program. This site also explains the sequence of events that led to the building of Sputnik-1. The site also explains the key people behind Sputnik-1.

Hansen, James R. Spaceflight Revolution. NASA Langley Research Center. From Sputnik to Apollo.

This document describes NACA becoming NASA. It also writes of NASA progress through the years.

Korolev, SP. Proposal on the First Launch of an Artificial Satellite of the Earth before the start of the International geophysical Year” (Originally in Russian).

This is a document that has been translated by Wilson center. This document reads on how Korolev didn't use the word satellite in the proposal.

Milestones in the History of U.S. Foreign Relations. (n.d.). Retrieved December 28, 2019, from <https://history.state.gov/milestones/1953-1960/sputnik-1>.

This site explains how much of a milestone Sputnik-1 was. This site also explains the relation behind the US and the Soviet Union. This site also explains the world's reaction to the Soviet Union launching the first satellite. This site also explains the US failed attempts to launch a satellite into space. The US failed with Vanguard and other satellites.

Siddiqi, Asif A. Korolev, Sputnik and The International Geophysical Year

This paper describes the events happening during the period when Korolev was trying to get approvals from the USSR government.

Siddiqi, Asif A. (2003, Feb 1). Sputnik and the Soviet Challenge.

This book is an important source for my project because it covers the struggle that Sergei Korolev had to convince authorities for Sputnik launch. I also understood the background about Sergei Korolev.

Sputnik 1 anniversary changed the world. (n.d.). Retrieved December 29, 2019, from <https://www.space.com/17894-sputnik-1-anniversary-changed-the-world.html>.

This site explains how Sputnik changed the world. This site also explains the world's reaction to the Soviet Union launching the first satellite. This site also explains the impact on the Soviet Union. This site also explains how Sputnik changed the education system. The Sputnik launch made America concentrate on the education system.

Soviet Space Programs, 1962-65; Goals and Purposes, Achievements, Plans, and International Implications, Prepared for the Committee on Aeronautical and Space Sciences, U.S. Senate, 89th Cong., 2nd Sess. (Washington, D.C.: U.S. Government Printing Office, December 1966), 149-150.

This is a document that describes the various space programs of USSR in the 1960's.

Sputnik, 60 years later. (n.d.). Retrieved December 29, 2019, from <https://ai-solutions.com/about-us/news-multimedia/sputnik-1-60-years-later/>.

This site contains information that says Sputnik-1 60 years later. This site also has information about the remains of Sputnik-1. The site also describes the impact of Sputnik-1 is still alive. One Impact of Sputnik still in effect are the satellites in orbit right now. Another impact still in effect is the GPS.

Sputnik 1 impacts on the world. (n.d.). Retrieved from <https://www.pbs.org/wgbh/nova/article/sputnik-1-impact-on-america/>.

This site contains the Sputnik launch impact on the world, including the Soviet Union. This site also contains the impact on America. This also contains the

impact on more countries. This site says that America got affected the most. America has gotten embarrassed that the Soviet Union has launched the first satellite.

“Sputnik-1 (Replica).” *National Air and Space Museum*, 15 Mar. 2018,
<https://airandspace.si.edu/collection-objects/sputnik-1-replica>.

This site explicitly states what is inside sputnik-1. It covers the US’s reaction was towards Sputnik-1. It also explains that the remains of Sputnik-1 are just one small arming pin-ring. This ring is to insulate between the batteries and transmitters.

State space corporation ROSCOSMOS | . (n.d.). Retrieved from
<http://en.roscosmos.ru/>.

This site is really good at information about the Soviet Rocket Launches. Roscosmos is a state owned corporation that recognizes and appreciates Russia and Soviet launches of rockets and space related topics discovered by Russia. This site gives the place Sputnik launched, when it launched, how it launched, and why it was launched. This site also has the following satellites like Sputnik-2 and-3. This site also provides all other basic information about Sputnik-1.

Tate, Karl. “sputnik-1: How the World's 1st Artificial Satellite Worked (Infographic).” *Space.com*, Space, 4 Oct. 2012, <https://www.sputnik-1-replica.com/>”
***National Air and Space Museum*, 15 Mar. 2018,**

This source explains the history of Sputnik. It also gives the information on who built it and why it was built. The rocket used for the Sputnik launch was also mentioned.

M.K. Tikhonravov, "The Creation of the First *Artificial* Earth Satellite: Some Historical Details," *Journal of the British Interplanetary Society* (May 1994), V. 47, no. 5: 191-194.

This paper gives details about Sputnik creation. It describes the events just happened before the creation of Sputnik.

***U.S. Department of State, U.S. Department of State,
<https://history.state.gov/milestones/1953-1960/sputnik-1>.***

This site explains the results of Sputnik-1 in the US's points of view and that the military was scared of the Soviet Union and wanted to engineer satellites themselves. This created the Space Race. At first the United States were surprised at the technological prowess of the Soviet Union. Then the US wanted to compete with the Soviets.

**Williams, D. R. (2019, September 5). Nasa Space Science Data Coordinated. Retrieved December 26, 2019, from
<https://nssdc.gsfc.nasa.gov/nmc/spacecraft/display.action?id=1957-001B>.**

This site explains the history of Sputnik, like how it came to be and who gave the idea of Sputnik. This site also says that the rocket booster reached Earth's orbit and was visible from orbit. This site also explains that the copies of Sputnik are in Museums: Smithsonian National Air and Space and a few more museums in Russia. This site explains that the Satellite was pressurized with nitrogen.

**Zak, A. (n.d.). Russian Space web. Retrieved December 12, 2019, from
<http://www.russianspaceweb.com/sputnik-1.html>.**

This site gives me more information to look at because it has links to other sites. This can be really handy for getting information about the topic. This is also useful for learning about a wide range of topics related to Sputnik-1. This site also is great for giving an intro for Sputnik-1. This site is also great for giving intricate details about Sputnik.

Secondary Sources

Administrator, NASA Content. "Sputnik-1." NASA, NASA, 5 Nov. 2015, https://www.nasa.gov/multimedia/imagegallery/image_feature_924.html.

This site helps explain the basics to me, like when the satellite was first launched in Oct 4 1957. This site explains that the word sputnik-1 used to mean "fellow traveler". But it now means "satellite" in Russian. This site also says the sputnik-1 had 5 scientific objectives: provide information about the density of the atmosphere, test if the radio works in space, testing the method of launching a satellite in orbit, see how the satellite copes under pressure, and see if the radio can send signals through the upper atmosphere.

Kennedy, Ian H. *The Sputnik crisis and America's Response* (1999).

This paper describes the fear that American public had after Sputnik launch.

"sputnik-1 Launched." *History.com*, A&E Television Networks, 24 Nov. 2009, <https://www.history.com/this-day-in-history/sputnik-1-launched>.

This site explains the future satellites that Sputnik-1 sparked. Sputnik-1 led to the building of sputnik-1 2. It also led to the building and launching of the first US satellite Explorer. Not only did Sputnik-1 help spark the building of other satellites, but it also sparked the Space Race. Sputnik-1 also contributed to the Apollo moon landing.

Sputnik. (n.d.). Retrieved from

<https://www.macalester.edu/russian/about/resources/miscellany/sputnik/>.

This site explains the impact on the Soviet Union. This site says that there was a huge celebration towards the launching of Sputnik. This site also says the sequence of events coming after Sputnik. Like the Space Race and the Cold War. This site is also good summary of the sequence of events that caused Sputnik to be launched and the consequences from the Sputnik launch.

Eckels, A., et al., Ephemeris of satellite 1957 Alpha 2, In - IGY Satellite Rpt. Series, No. 8, June 15, 1959.

This publication talks about describing the scientific satellites since the launch of Sputnik-1. This book describes more than 600 earth satellites since October 4, 1957 and their salient features and sensors on them. The role played by those sensors took images of the Sun and stars at wavelengths that cannot penetrate the Earth's atmospheric shield.

<https://www.theatlantic.com/technology/archive/2010/10/soviet-russias-sputnik-celebration-video-translated/64053/>

This video shows the celebrations of Russian and describing the features of the sputnik-1 satellite. The signals send by Sputnik were received by thousands across the globe. It was telling the scientific benefits of this experiments such as knowledge of Earth gravity field, Earth structure, the Sun radiation, and the nature of the distant atmosphere layers

[H.R.12575, National Aeronautics and Astronautics Act of 1958, 3 Jun 1958.](#)

This document describing the HR 12575 act describes that the Congress organized to study all aspects of space exploration. The House Select Committee on Astronautics and the Senate Standing Committee on Aeronautical and Space Sciences established the National Aeronautics and Space Administration (NASA) in 1958, set its priorities, and oversaw the effort to put the first astronaut on the moon.

[DOD Directive 5105.15 establishing ARPA later renamed as DARPA.](#)

This document helps me how USA started developing institutions for space and military research and defining their tasks. In 1958 Department of Defense issued DoD directive 5105.15 establishing the Advanced Research Projects Agency (ARPA), This was later renamed the Defense Advanced Research Projects Agency (DARPA). The Agency's first three primary research thrusts focused on space technology, ballistic missile defense, and solid propellants.

<https://www.archives.gov/research/alic/reference/space-timeline.html>

National Archives on space exploration is great site to show all pictures of satellites launched with timeline. I used some of the images from this site in my website.

<https://www.space.com/4422-timeline-50-years-spaceflight.html>

This webpage is very informational on timeline and major events with videos on milestone moments in space exploration. I used pictures from this website.

<https://www.cia.gov/library/readingroom/collection/what-was-missile-gap>

This provided lot of PDF documents on missile gap and the perception of USA and its western allies on Soviet Union missile strength. I studied these unclassified PDF documents to understand the intelligence gathering and spying on each other capabilities and formulating strategies.