

# The history of space exploration

1957 October 4  
Sputnik  
First satellite (USSR)

1957 November 3  
Laika  
first animal (USSR)

1961 April 12  
Yuri Gagarin  
First man (USSR)

1963 June 16  
Valentina Tereshkova  
First woman (USSR)

1969 July 20  
Neil Armstrong  
First step on the Moon (US)

1976  
Viking 1 and 2  
(US)  
First probes on Mars

1977  
August-September  
Voyager probes  
(US)  
1 and 2 launch to study solar system

1986  
Space shuttle Challenger  
*Accident*

1990 April 24  
Hubble space telescope  
Placed into orbit

1998  
International station station  
First module of the station

1978  
Launch of first GPS satellite

2003  
Space shuttle Columbia  
*Accident*

2004-2018  
The rover Opportunity  
Explores the surface of Mars

2008  
Falcon 1 First successful flight of the company SpaceX

2019  
China lands probe on Moon, January 4

The Americans commit to returning to the Moon in 2024

Source: NASA

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# Space Probes History Of Space Exploration

**Richard Bailey**



## **Space Probes History Of Space Exploration:**

*A Brief Illustrated History of Space Exploration* Robert Snedden, 2017-01-01 A Brief Illustrated History of Space Exploration charts the history of space exploration and discovery all the way through from the early rocketeers through the first people in space and the Space Race to be first to reach the Moon the first Space Stations and all the way through to the incredible findings of today With stunning full color images and illustrations this beautiful book is sure to fascinate and charm the young reader

**NASA's Pioneer and Voyager Missions** Charles River Editors, 2019-09-07 Includes pictures Includes a bibliography for further reading Today the Space Race is widely viewed poignantly and fondly as a race to the Moon that culminated with Apollo 11 winning the Race for the United States In fact it encompassed a much broader range of competition between the Soviet Union and the United States that affected everything from military technology to successfully launching satellites that could land on Mars or orbit other planets in the Solar System Moreover the notion that America won the Space Race at the end of the 1960s overlooks just how competitive the Space Race actually was in launching people into orbit as well as the major contributions the Space Race influenced in leading to today's International Space Station and continued space exploration Space exploration was always an expensive business and throughout NASA's history the agency has had to justify to Congress its need for every dollar it intended to spend This problem has helped NASA to be more careful and more creative with the money they did receive and scientists had to justify the equipment they wanted to include on each space probe They had to justify the size and the power demand too If they wanted too much the entire mission might be scrubbed and all their work would have been for naught This made planning and designs leaner and more efficient as scientists and engineers were more careful with their recommendations At the same time scientists have been repeatedly surprised by their discoveries Some of those discoveries revealed the dangers of space like the Van Allen radiation belt dangerous to astronauts without the right kind of protection NASA also discovered the massive radiation belt surrounding Jupiter thanks to the Pioneer probes in 1973 and 1974 Similarly with the knowledge that Titan the largest moon of Saturn has a thick atmosphere later missions were sent to investigate the moon up close Thus the Huygens lander pierced the Titan atmosphere in January of 2005 to investigate Although Apollo 11's successful mission to the Moon is seen as the culmination of the Space Race and the Apollo program remains NASA's most famous one of the space agency's most successful endeavors came a few years later In fact the Pioneer program was the most diversified sequence of any of NASA's programs and though they're now remembered for being among the first probes in history to reach the Outer Solar System the elaborate planning changed goals several times over several years before resulting in historic successes NASA had wanted to do a Grand Tour of the Solar System toward the end of the 1970s to take advantage of the scheduled alignment of planets which meant the Pioneer missions were meant to be test runs prior to the main events Voyager 1 and Voyager 2 and a great many things discovered by Pioneer 10 and Pioneer 11 were essential to the successful planning of the Voyager probes In 1977 the

Voyager spacecraft were launched from Earth to explore the outer Solar System and incredibly the now ancient technology from the 1970s is still working sending daily reports back to the planet that sent the two robotic envoys on their way over 40 years ago Voyager 1 and 2 have done far more than accomplish their original missions In fact they are now exploring interstellar space far beyond the outer planets in the cold wasteland between the stars Each spacecraft carries a copy of a golden record which contains an introduction to Earth should some alien civilization happen to encounter either Voyager 1 or Voyager 2 In the first Star Trek movie writers imagined just that creating a story of a Voyager spacecraft being captured and adapted for its own uses *The Voyager Program* Charles River Editors,2019-08-08 Includes pictures Includes a bibliography for further reading Today the Space Race is widely viewed poignantly and fondly as a race to the Moon that culminated with Apollo 11 winning the Race for the United States In fact it encompassed a much broader range of competition between the Soviet Union and the United States that affected everything from military technology to successfully launching satellites that could land on Mars or orbit other planets in the Solar System Moreover the notion that America won the Space Race at the end of the 1960s overlooks just how competitive the Space Race actually was in launching people into orbit as well as the major contributions the Space Race influenced in leading to today s International Space Station and continued space exploration Although Apollo 11 s successful mission to the Moon is seen as the culmination of the Space Race and the Apollo program remains NASA s most famous one of the space agency s most successful endeavors came about a decade later In 1977 two spacecraft were launched from Earth to explore the outer Solar System and incredibly the now ancient technology from the 1970s is still working sending daily reports back to the planet that sent the two robotic envoys on their way over 40 years ago Voyager 1 and 2 have done far more than accomplish their original missions In fact they are now exploring interstellar space far beyond the outer planets in the cold wasteland between the stars Each spacecraft carries a copy of a golden record which contains an introduction to Earth should some alien civilization happen to encounter either Voyager 1 or Voyager 2 In the first Star Trek movie writers imagined just that creating a story of a Voyager spacecraft being captured and adapted for its own uses Whatever happens to these emissaries from Earth they have delivered a wealth of data about the outer Solar System and Voyager 2 remains the only probe to travel to Neptune and Uranus *The Voyager Program The History and Legacy of NASA s First Probes that Traveled to the Outer Solar System* examines the origins behind the missions the space probes involved and the historic results Along with pictures of important people places and events you will learn about the Voyager program like never before **History of Space Exploration** Tim Furniss,2005 A detailed look at space from the first rocket launch to how the continued potential for space exploration alters the way man looks at his world **Frontiers of Space Exploration** Roger D. Launius,1998 The most up to date one stop source of information analysis biographical profiles and key primary documents on space exploration *Russian Space Probes* Brian Harvey,Olga Zakutnyaya,2011-05-04 Brian Harvey recounts for the first time the definitive history of scientific Russian space probes and

the knowledge they acquired of the Earth its environment the Moon Mars and Venus He examines what Russian Space Science has actually achieved in furthering our knowledge of the Solar System focusing on the instrumentation and scientific objectives and outcomes the information gained and lessons learnt Boxes and charts are used extensively in order to convey in an easily understandable manner for the non scientific reader the problems and issues addressed and solved by Soviet space science The book opens with the story of early space science in Russia which started when the first Russian rockets were fired into the high atmosphere from Kapustin Yar in the late 1940s Instruments were carried to measure and map the atmosphere and later rockets carried dogs to test their reactions to weightlessness In order to beat America into Earth orbit two simpler satellites than originally planned were launched Sputnik and Sputnik 2 which provided some initial information on atmospheric density while the following Sputnik 3 carried twelve instruments to measure radiation belts solar radiation the density of the atmosphere and the Earth's magnetic field The author recounts how by the 1960s the Soviet Union had developed a program of investigation of near Earth space using satellites within the Cosmos program in particular the DS Dnepropetrovsky Sputnik small satellites developed to investigate meteoroids radiation the magnetic fields the upper atmosphere solar activity ionosphere charged particles cosmic rays and geophysics Brian Harvey then gives the scientific results from Russian lunar exploration starting with the discovery of the solar wind by the First Cosmic Ship and the initial mapping of the lunar far side by the Automatic Interplanetary Station He describes Luna 10 which made the first full study of the lunar environment Luna 16 which brought soil back to Earth and the two Moon rovers which travelled 50 kms across the lunar surface taking thousands of measurements soil analyses and photographs as well as profiles of discrete areas Chapters 4 and 5 describe in detail the scientific outcomes of the missions to Venus and Mars before considering the orbiting space stations in Chapter 6 Space science formed an important part of the early manned space program the prime focus being the human reaction to weightlessness how long people could stay in orbit and the effects on the body as well as radiation exposure Chapter 7 looks at the later stage of Soviet and Russian space science including Astron and Granat the two observatories of the 1980s and Bion the space biology program which flew monkeys and other animals into orbit The final chapter looks forward to a new period of Russian space science with the Spektr series of observatories and a range smaller science satellites under the Federal Space Plan 2006 2015 [The Pioneer Program](#) Charles River Charles River Editors, 2019-09-05 Includes pictures Includes a bibliography for further reading Today the Space Race is widely viewed poignantly and fondly as a race to the Moon that culminated with Apollo 11 winning the Race for the United States In fact it encompassed a much broader range of competition between the Soviet Union and the United States that affected everything from military technology to successfully launching satellites that could land on Mars or orbit other planets in the Solar System Moreover the notion that America won the Space Race at the end of the 1960s overlooks just how competitive the Space Race actually was in launching people into orbit as well as the major contributions the Space Race influenced in

leading to today's International Space Station and continued space exploration. Space exploration was always an expensive business and throughout NASA's history the agency has had to justify to Congress its need for every dollar it intended to spend. This problem has helped NASA to be more careful and more creative with the money they did receive and scientists had to justify the equipment they wanted to include on each space probe. They had to justify the size and the power demand too. If they wanted too much, the entire mission might be scrubbed and all their work would have been for naught. This made planning and designs leaner and more efficient as scientists and engineers were more careful with their recommendations. At the same time, scientists have been repeatedly surprised by their discoveries. Some of those discoveries revealed the dangers of space like the Van Allen radiation belt dangerous to astronauts without the right kind of protection. NASA also discovered the massive radiation belt surrounding Jupiter thanks to the Pioneer probes in 1973 and 1974. Similarly, with the knowledge that Titan, the largest moon of Saturn, has a thick atmosphere, later missions were sent to investigate the moon up close. Thus, the Huygens lander pierced the Titan atmosphere in January of 2005 to investigate. Although Apollo 11's successful mission to the Moon is seen as the culmination of the Space Race and the Apollo program remains NASA's most famous, one of the space agency's most successful endeavors came a few years later. In fact, the Pioneer program was the most diversified sequence of any of NASA's programs and though they're now remembered for being among the first probes in history to reach the Outer Solar System, the elaborate planning changed goals several times over several years before resulting in historic successes. NASA had wanted to do a Grand Tour of the Solar System toward the end of the 1970s to take advantage of the scheduled alignment of planets, which meant the Pioneer missions were meant to be test runs prior to the main events. Voyager 1 and Voyager 2, and a great many things discovered by Pioneer 10 and Pioneer 11, were essential to the successful planning of the Voyager probes. The Pioneer Program: The History and Legacy of NASA's Unmanned Space Missions to the Outer Solar System examines the origins behind the missions, the space probes involved, and the historic results. Along with pictures of important people, places, and events, you will learn about the Pioneer program like never before.

*Space Exploration For Dummies* Cynthia Phillips, Shana Priwer, 2009-05-04 Your comprehensive guide to remarkable achievements in space. Do you long to explore the universe? This plain English, fully illustrated guide explains the great discoveries and advancements in space exploration throughout history, from early astronomers to the International Space Station. You'll learn about the first satellites, rockets, and people in space; explore space programs around the world; and ponder the controversial question: Why continue to explore space? Take a quick tour of astronomy, get to know the solar system and our place in the galaxy, take a crash course in rocket science, and live a day in the life of an astronaut. Run the Great Space Race, trace the growth of the Space Age from Sputnik to the Apollo moon landings, and meet the robots that explored the cosmos. Watch as space exploration matures from the birth of the Space Shuttle to the creation of the Mir Space Station, to successes and failures in Mars exploration, see how space programs reached new levels. Journey among the planets, check out the

discoveries made during historic voyages to the inner and outer reaches of the solar system Understand current exploration review the telescopes in space take a tour of the International Space Station and see the latest sights on Mars Look into the future learn about upcoming space missions and increased access to space travel Open the book and find Descriptions of space milestones and future missions An easy to follow chronological structure Color and black and white photos The nitty gritty details of becoming an astronaut A grand tour of the solar system through space missions Explanations of tragedies and narrow escapes Facts on the creation of space stations by NASA and the USSR Ten places to look for life beyond Earth

*The Cosmos Unraveled: An Exploration of the Universe* Pasquale De Marco, 2015-05-12 The Cosmos Unraveled An Exploration of the Universe is the definitive guide to the universe written in a clear and accessible style It is perfect for anyone who is interested in learning more about the cosmos from students to adults This book covers a wide range of topics including The Big Bang and the origin of the universe The formation of galaxies stars and planets The different types of stars planets moons comets asteroids and meteors that make up our universe The history of space exploration The different types of space probes that have been sent to explore our solar system and beyond The future of space travel The possibility of finding life beyond Earth This book is packed with information yet it is written in a clear and concise style that makes it easy to understand The book is also beautifully illustrated with photographs and diagrams that help to bring the universe to life Whether you are a student an amateur astronomer or just someone who is curious about the universe this book is a must read It will take you on a journey through the cosmos and it will leave you with a newfound appreciation for the wonders of the universe About the Author Pasquale De Marco is a lifelong lover of astronomy and space exploration He has written numerous articles and books on astronomy and he is a frequent speaker at astronomy events Pasquale De Marco has a passion for sharing his knowledge of the universe with others He believes that everyone should have the opportunity to learn about the cosmos and he is dedicated to making astronomy accessible to all If you like this book write a review on google books

Historical Studies in the Societal Impact of Spaceflight Steven J. Dick, 2015      The Illustrated Encyclopedia of Space Exploration Richard S. Lewis, 1983      **Beyond Earth** Asif A. Siddiqi, 2018 This is a completely updated and revised version of a monograph published in 2002 by the NASA History Office under the original title Deep Space Chronicle A Chronology of Deep Space and Planetary Probes 1958-2000 This new edition not only adds all events in robotic deep space exploration after 2000 and up to the end of 2016 but it also completely corrects and updates all accounts of missions from 1958 to 2000 Provided by publisher

*Introduction to Elon Musk* Gilad James, PhD, Elon Musk is one of the most influential and successful entrepreneurs of our time He is best known for co-founding PayPal Tesla Motors and SpaceX as well as having a hand in other innovative companies such as SolarCity and Neuralink Born in South Africa in 1971 Musk moved to the United States in the early 1990s and began studying physics and economics at the University of Pennsylvania After completing his undergraduate degree he founded his first company Zip2 which was later sold for over 300 million Since then

Musk has become a household name for his bold vision and determination to make the world a better place with his groundbreaking inventions like the Tesla electric car the SpaceX reusable rocket and the Hyperloop transportation system Although Musk has faced many challenges and criticisms throughout his career including facing bankruptcy and multiple failed launches he has remained resilient and passionate about his mission He continues to push the boundaries of technology and innovation and has become an advocate for sustainable energy and space exploration Through his companies and philanthropic efforts he has inspired countless individuals and has become a symbol of hope for those who seek to make a positive impact on the world

*Aeronautics and Space Bibliography of Adult Aerospace Books and Materials* National Aerospace Education Council (U.S.),1963      **NASA EP.** United States. National Aeronautics and Space Administration,1961

Space Flight Lance K. Erickson,2010-08-16 This book offers a comprehensive look at the history of space exploration the technology that makes it possible and the continued efforts that promise to carry us into the future It goes through the history of space exploration from the earliest sub orbital and orbital mis

**Critical issues in the history of spaceflight**

Steven J. Dick,2018      **Aerospace Bibliography** National Aerospace Education Council (U.S.),1970      Space Probes

Philippe Séguéla,2011 The first complete up to date history of space probe exploration In just 50 years space exploration has advanced from the Luna 1 the first artificial object to overcome Earth s gravitational field to the New Horizons Mission which will reach Pluto in 2015 Progress has been spectacular and it bodes well for the remarkable achievements to come Space Probes is the first complete and fully illustrated history of the international space exploration program Thoroughly up to date it is organized by destination and includes every space probe launched by all countries active in space exploration the United States the USSR Russia the European Union Japan China and India Each probe is described as to its objective its technology the hurdles overcome the successes and failures of the mission the information gained and the lessons learned Fascinating photographs and technical drawings give an inside view of each mission and special features focus on key engineers and physicists and the fruits of their research After a section on the history of astronomy Space Probes covers missions to The moon the first objective Venus our sister planet Mars the red planet Jupiter Saturn Uranus and Neptune the giant planets Mercury The sun Comets Asteroids and the dwarf planets Future missions The book also includes sections on the Apollo Space Program the USSR USA space race and a cross referenced chronological index of all the probes Engaging and accessible Space Probes is a comprehensive and expertly researched encyclopedia of humanity s space explorations an adventure that has not finished astonishing us

**An Aerospace Bibliography** Raymond Estep,1962



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