

Space Probes In Space

Deep Space 2 Deep Space 2 was a NASA space probe, part of the New Millennium Program. It included two highly advanced miniature space probes that were sent to Mars 399f92001b

== Essence of space exploration == 399f92001b

Interstellar Probe (spacecraft) Voyager 1 and 2 probes despite their intended 5-year lifetime. The mission has been called "Voyager on steroids";. Interstellar probes such as the Voyager 399f92001b

List of Solar System probes organized by their planned destination. Flybys (such as gravity assists) that This is a list of space probes that have left Earth orbit (or were launched with that intention but failed), organized by their planned destination. It includes planetary probes, solar probes, and probes to asteroids and comets. It includes planetary probes, solar probes, and probes to asteroids and comets. Flybys (such as gravity assists) that were incidental to the main purpose of the mission are also included 399f92001b

Outline of space exploration Spaceflight records Emergence of market forces in spaceflight Timeline of artificial satellites and space probes Timeline of astronauts by nationality Timeline The following outline is provided as an overview of and topical guide to space exploration 399f92001b

Timeline of artificial satellites and space probes First satellites This timeline of artificial satellites and space probes includes uncrewed spacecraft including technology demonstrators, observatories, lunar probes, and interplanetary probes. First satellites from each country are included. satellites and space probes includes uncrewed spacecraft including technology demonstrators, observatories, lunar probes, and interplanetary probes. Not included are most Earth science satellites, commercial satellites or crewed missions 399f92001b

While the observation of objects in space, known as astronomy, predates reliable recorded history, it was the development of large and relatively efficient rockets during the mid-twentieth century that allowed physical space exploration to become a reality. Common rationales for exploring space include advancing scientific research, national prestige, uniting different nations, ensuring the future survival of humanity, and developing military and strategic advantages against other countries. 399f92001b Space exploration – use of astronomy and space technology to explore outer space. Physical exploration of space is conducted both by human spaceflights and by robotic

spacecraft. 399f92001b

Space probe Space probes are used to investigate the Moon, planets, moons, asteroids, comets, the Sun, and interstellar space. Space probes are used to investigate A space probe is an uncrewed robotic spacecraft designed to explore outer space and transmit scientific data back to Earth. A space probe is an uncrewed robotic spacecraft designed to explore outer space and transmit scientific data back to Earth. Unlike artificial satellites, which usually remain in orbit around Earth, probes are sent beyond Earth orbit toward other celestial bodies or into deep space 399f92001b

Colour key: 399f92001b == Timeline == 399f92001b Space exploration 399f92001b

Space exploration While the observation of Space exploration is the physical investigation of outer space by uncrewed robotic space probes and through human spaceflight. Space exploration is the physical investigation of outer space by uncrewed robotic space probes and through human spaceflight 399f92001b

Excluded are lunar missions, which are listed separately at List of lunar probes and List of Apollo missions. Flybys of Earth are listed separately at List of Earth flybys. Planned and proposed missions are in the List of proposed Solar System probes. 399f92001b Many space probes have made important... 399f92001b

List of active Solar System probes It includes lunar space probes, but does not include space probes orbiting at the Sun–Earth. is a list of active space probes which have escaped Earth orbit 399f92001b

== History == 399f92001b The early era of space exploration was driven by a "Space Race" in which the Soviet Union and the United States vied to demonstrate their technological superiority. Landmarks of this era include the launch of the first human-made object to orbit Earth, the Soviet Union's Sputnik 1, on 4 October 1957, and the first Moon landing by the American Apollo 11 mission on 20 July 1969. The Soviet space program achieved many of the first milestones, including the first living being in orbit in 1957, the first human spaceflight (Yuri Gagarin aboard Vostok 1) in 1961, the first spacewalk... 399f92001b == Key == 399f92001b

Human presence in space orbited by probes (Jupiter: Galileo in 1995 and Juno in 2016; Saturn: Cassini–Huygens in 2004), with all other outer Solar System probes performing flybys Human presence in space (also anthropogenic presence in space or humanity in space) is the direct and mediated presence or telepresence of humans in outer space, and in an extended sense across space including astronomical objects. Human presence in space, particularly through

mediation, can take many forms from space debris, uncrewed spacecraft, artificial satellites, space observatories, crewed spacecraft, art in space, to human outposts in outer space such as space stations 399f92001b

The first space probes were developed during the early years of the Space Age in the late 1950s. Among the earliest missions were the Soviet Luna probes and the American Pioneer program. Early probes were intended to study the Moon, while later missions expanded to Venus, Mars, Jupiter, Saturn, and other bodies in the Solar System. 399f92001b

Interstellar probe As of 2024,[update] there are five interstellar probes, all launched by the American space agency. refers to probes capable of reaching other star systems 399f92001b

Space probes can be divided into several types according to their mission profile. A flyby probe passes near a celestial body without entering orbit. An orbiter enters orbit around a target body for long-term observation. A lander reaches the surface of a planet or moon, while a rover is capable of moving across the surface. Atmospheric probes descend through an atmosphere to study its composition and weather conditions. 399f92001b Humans have achieved some mediated presence throughout the Solar System, but the most extensive presence has been in orbit around Earth. Humankind reached outer space mediated in 1944 (MW 18014) and have sustained mediated presence since 1958... 399f92001b While human presence in space, particularly its continuation and permanence can be a goal in itself, human presence can have a range of purposes and modes from space exploration, commercial use of space to extraterrestrial settlement or even space colonization and militarisation of space. Human presence in space is realized and sustained through the advancement and application of space sciences, particularly astronautics in the form of spaceflight and space infrastructure. 399f92001b

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