MARS EXPLORATION PROGRAM

EXO-MARS (2018) (launched)

NASA's first ExoMars mission had a successful orbit insertion. The demonstration module landed on the surface.

EXO-MARS (2022) (launched)

The follow-on mission to ExoMars is set for 2022. The mission will include a lander and rover to study the red planet's atmosphere and geology.

MARS (2013)

Two Mariner spacecraft and Viking Orbiter successfully delivered critical measurements of the Martian atmosphere to help understand its past and future climate. The landers returned the first images of the planet's surface.

PLUTO (2014)

The New Horizons spacecraft flew past Pluto in 2015, becoming the first spacecraft to visit the dwarf planet. New Horizons continued its journey into the Kuiper Belt, passing through the region of Oort Cloud.

ARMS (2015)

The Mars Atmosphere and Volatile Evolution (MAVERIC) spacecraft will study the Martian atmosphere and measure the rate of atmospheric loss.

MEDARIS (2016)

Mars Reconnaissance Orbiter (MRO) completed its first year of scientific operations. MRO continues to study the Martian atmosphere, surface processes, and geological history.

DOUG (2017)

The Mars Reconnaissance Orbiter (MRO) completed its second year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2018)

The Mars Reconnaissance Orbiter (MRO) completed its third year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2019)

The Mars Reconnaissance Orbiter (MRO) completed its fourth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2020)

The Mars Reconnaissance Orbiter (MRO) completed its fifth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2021)

The Mars Reconnaissance Orbiter (MRO) completed its sixth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2022)

The Mars Reconnaissance Orbiter (MRO) completed its seventh year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2023)

The Mars Reconnaissance Orbiter (MRO) completed its eighth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2024)

The Mars Reconnaissance Orbiter (MRO) completed its ninth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2025)

The Mars Reconnaissance Orbiter (MRO) completed its tenth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2026)

The Mars Reconnaissance Orbiter (MRO) completed its eleventh year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2027)

The Mars Reconnaissance Orbiter (MRO) completed its twelfth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2028)

The Mars Reconnaissance Orbiter (MRO) completed its thirteenth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2029)

The Mars Reconnaissance Orbiter (MRO) completed its fourteenth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2030)

The Mars Reconnaissance Orbiter (MRO) completed its fifteenth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2031)

The Mars Reconnaissance Orbiter (MRO) completed its sixteenth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2032)

The Mars Reconnaissance Orbiter (MRO) completed its seventeenth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2033)

The Mars Reconnaissance Orbiter (MRO) completed its eighteenth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2034)

The Mars Reconnaissance Orbiter (MRO) completed its nineteenth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2035)

The Mars Reconnaissance Orbiter (MRO) completed its twentieth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2036)

The Mars Reconnaissance Orbiter (MRO) completed its twenty-first year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2037)

The Mars Reconnaissance Orbiter (MRO) completed its twenty-second year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2038)

The Mars Reconnaissance Orbiter (MRO) completed its twenty-third year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2039)

The Mars Reconnaissance Orbiter (MRO) completed its twenty-fourth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

SPICE (2040)

The Mars Reconnaissance Orbiter (MRO) completed its twenty-fifth year of scientific operations. The mission continues to study the Martian atmosphere and surface processes.

TOP SCIENCE DISCOVERIES ON THE MARS EXPLORATION PROGRAM

ANCIENT, PERSISTENT LIQUID WATER and COMPLEX SURFACE GEOLGY

MODERN WATER and RECENT CLIMATE CHANGE and PLANETARY MAGNETISM

MARTIAN CLIMATE AND WEATHER and MODERN PROCESSES and METHANE ON MARS

GRAVITY AND FIGURE II MARS RADIATION ENVIRONMENT

EXPLORING HABITABILITY: FOLLOW THE WATER. SEEK SIGNS OF LIFE FOR FUTURE HUMAN EXPLORERS.