**EXOMARS SCIENCE - A-ROLL**

**TAPE STARTS: 10:00:00**

**VT STARTS: 10:00:10**

10:00:10

[ANIMATION OF MARS POLAR ICE CAP AND SURFACE]

On Mars there are dust storms, polar ice caps and four distinct seasons. This dynamic world has the largest volcanic mountain in our solar system and a canyon stretching over 5000 kilometres.

10:00:24

[LAUNCH SHOTS & ANIMATION OF MARS EXPRESS MISSION]

Europe’s Mars Express arrived at the planet in 2003, following in the pioneering footsteps of the United States and the Soviet Union and ahead of India, the most recent space agency to put an orbiter around Mars. Mars Express has found water on Mars, mapped the structure and composition of the south polar ice cap, and discovered auroras.

10:00:50

[ANIMATION OF PHOBOS AND GEOLOGICAL PRODUCTION OF METHANE]

It has also made the closest ever flybys of Phobos, one of Mars’ two moons. But it was the discovery of methane in the martian atmosphere that has made the most impact. As this methane could be from geological activity or it could be a byproduct of life.

10:01:02

[STILL SHOWING NOMAD AND ACS INSTRUMENTS ON THE ORBITER TGO AND MARS SURFACE ANIMATION]

The ExoMars 2016 Trace Gas Orbiter will carry two instruments capable of studying the distribution of methane in the Martian atmosphere. So far India’s orbiter, which recently released its first science results, has not found any methane on the planet. But this is probably because its instruments are not sensitive enough to detect the small amounts present.

10:01:24

[ANIMATION EXOMARS 2020]

The planned ExoMars 2020 mission will bring Europe’s first rover to Mars and, combined with the Trace Gas Orbiter, will help us fill in the gaps in our knowledge - whether it’s about electrical processes in the atmosphere today or the history of water on the planet.

10:01:39

[ANIMATION EXOMARS 2016]

In the mid 1970s NASA’s two Viking spacecraft landed on Mars, specifically tasked to search for life. They couldn’t provide conclusive evidence - but the joint European and Russian ExoMars programme will be the first mission since then with this aim.

10:01:47

[ENDS]

[ESA STING]

**ExoMars Science B-roll**

10:01:58

[TITLE] Animation

ExoMars arrival and lander separation

This shows the separation of the Schiaparelli lander from the Trace Gas Orbiter.

10:03:32

[TITLE] Animation

Mars surface flybys

10:06:19

[TITLE] Animation

Mars Express mission

Europe’s Mars Express mission launched in 2003 and is still orbiting the planet.

10:07:09

[TITLE] Animation

Mars polar ice cap

10:07:59

[TITLE] Animation

ExoMars 2020 Rover mission.

This follow up mission to ExoMars 2016 will put the first European rover on Mars.