

Outline

- Why?
- Earth below, sky above
- The future

Human spaceflight - a major step in the evolution of life in this corner of the Galaxy?



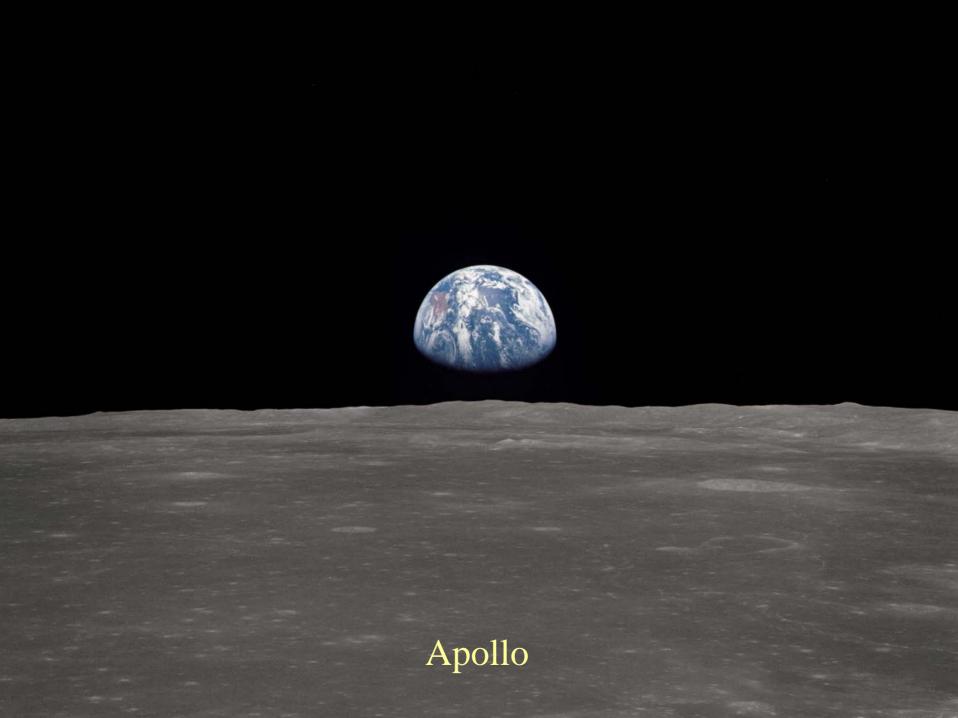
Anniversaries



50 years Sputnik 1



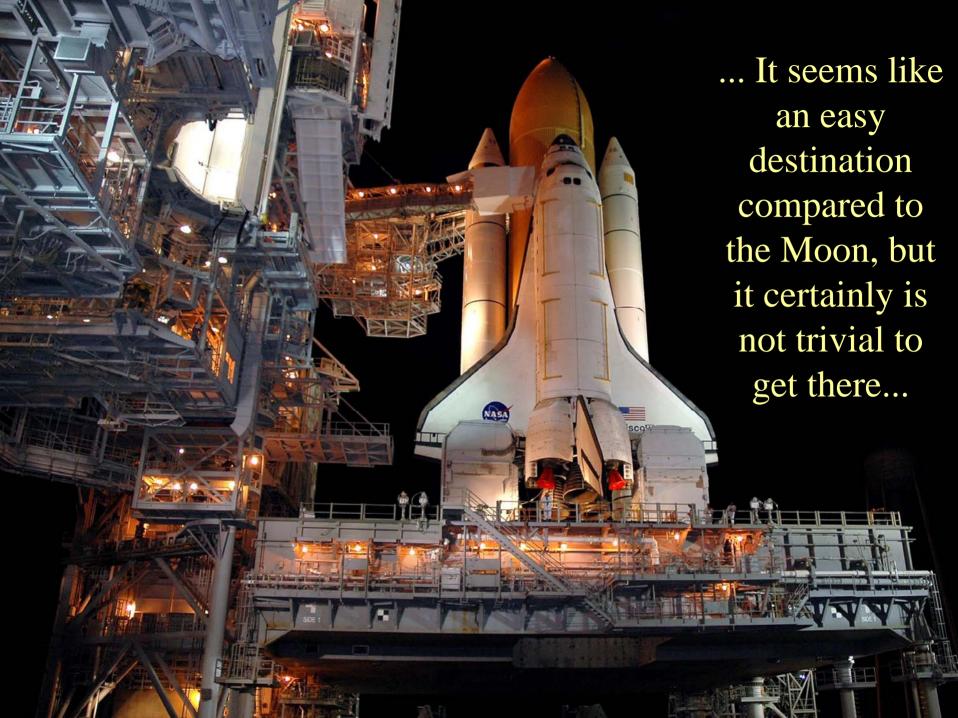
Yuri Gagarin April 12th, 1961 A highly respected hero, forever...







... and then back to the LEO, but always with a purpose...





We have many questions about the Earth, including its changing climate, about life, our origin, and our future...



A lot of work done in Earth orbit addresses these questions





EURECA & TSS

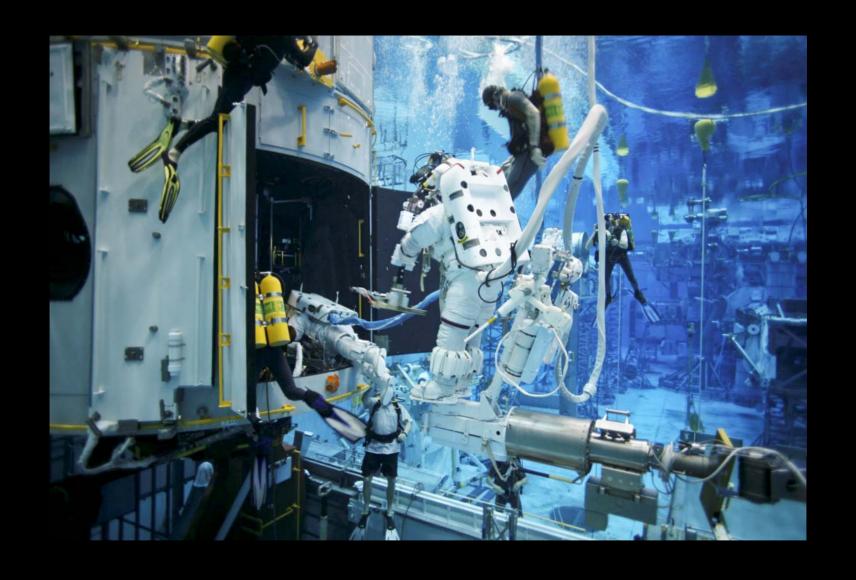
STS-46 July 1992





First visit to Hubble in December 1993 (STS-61)





... and another one to go (STS-125, September 2008)



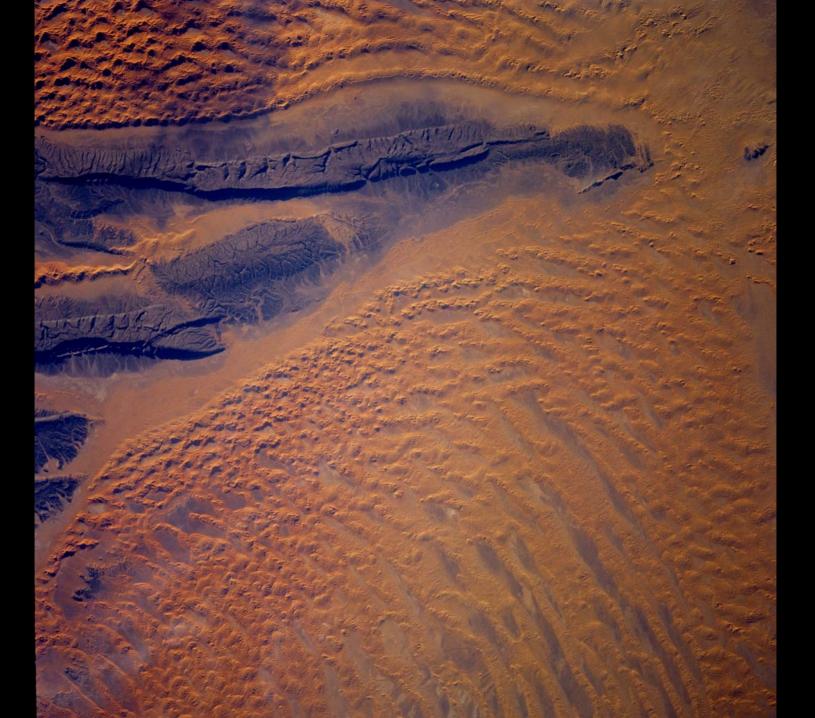
Earth below, sky above



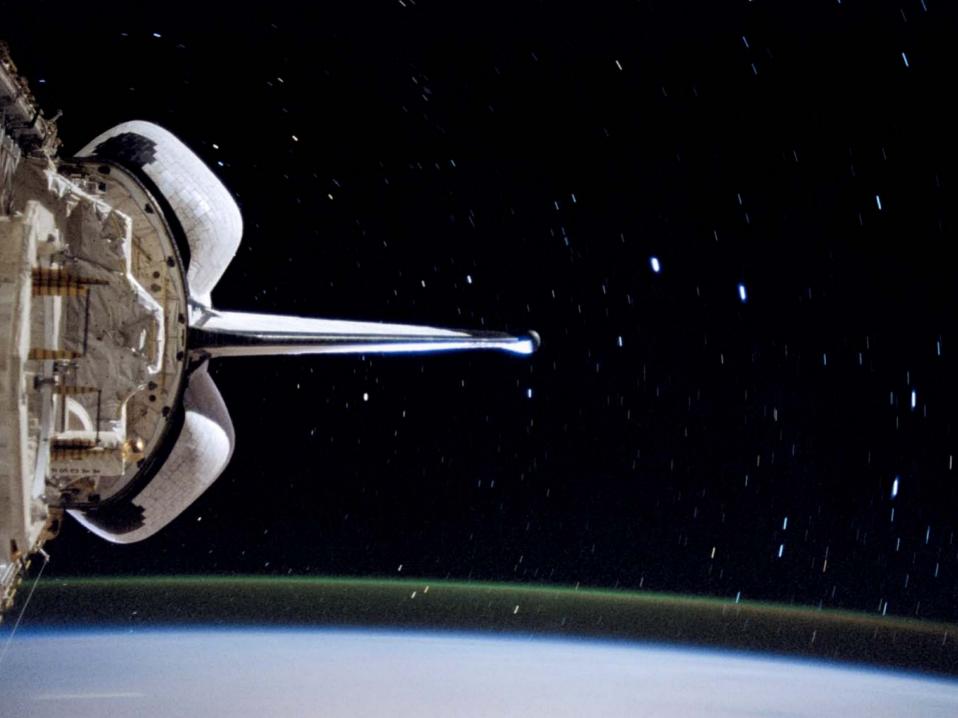














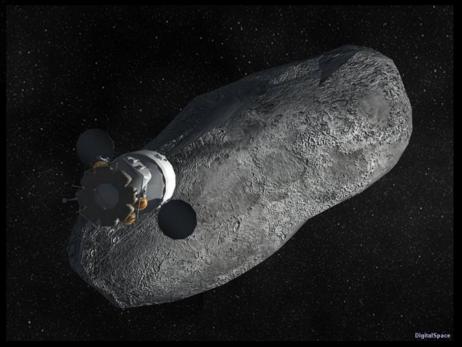
The future



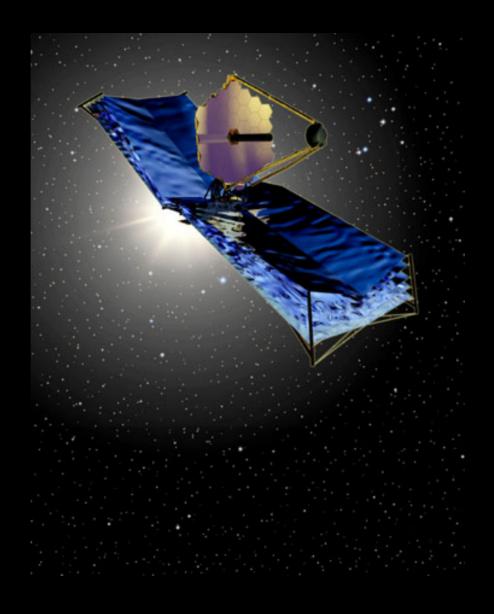
Orion - ISS



Orion - Moon



Orion - NEO



Orion for maintenance/repair/improvements of JWST?

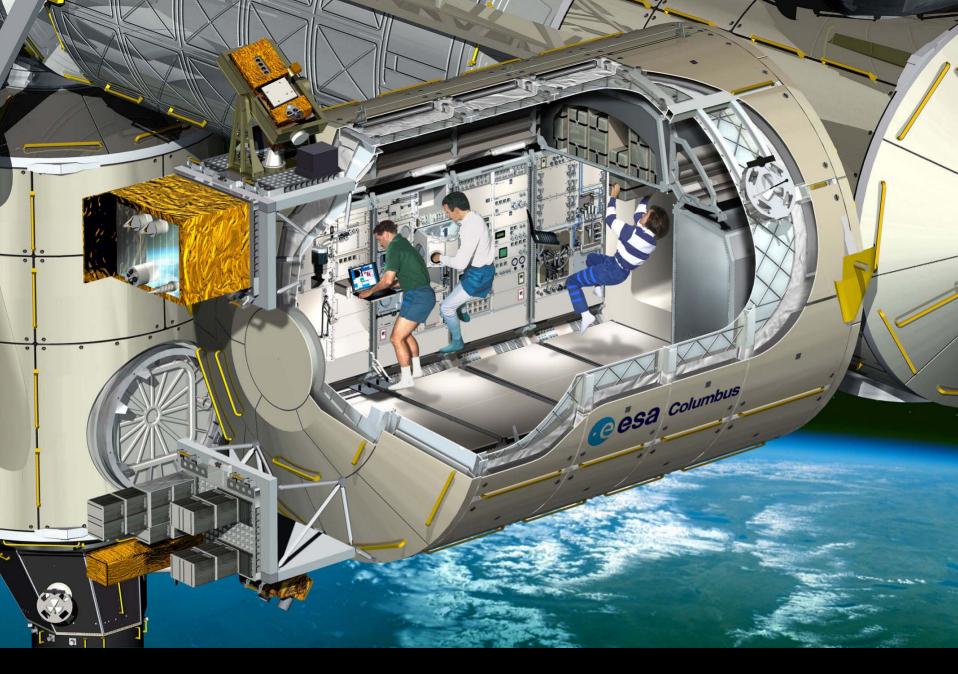




... and carrying dreams and emotions that we have had since a very long time...







Columbus (ESA)