

The Great Space Race

A timeline of how man conquered space

Where did it all begin?



The actual race to space began in...

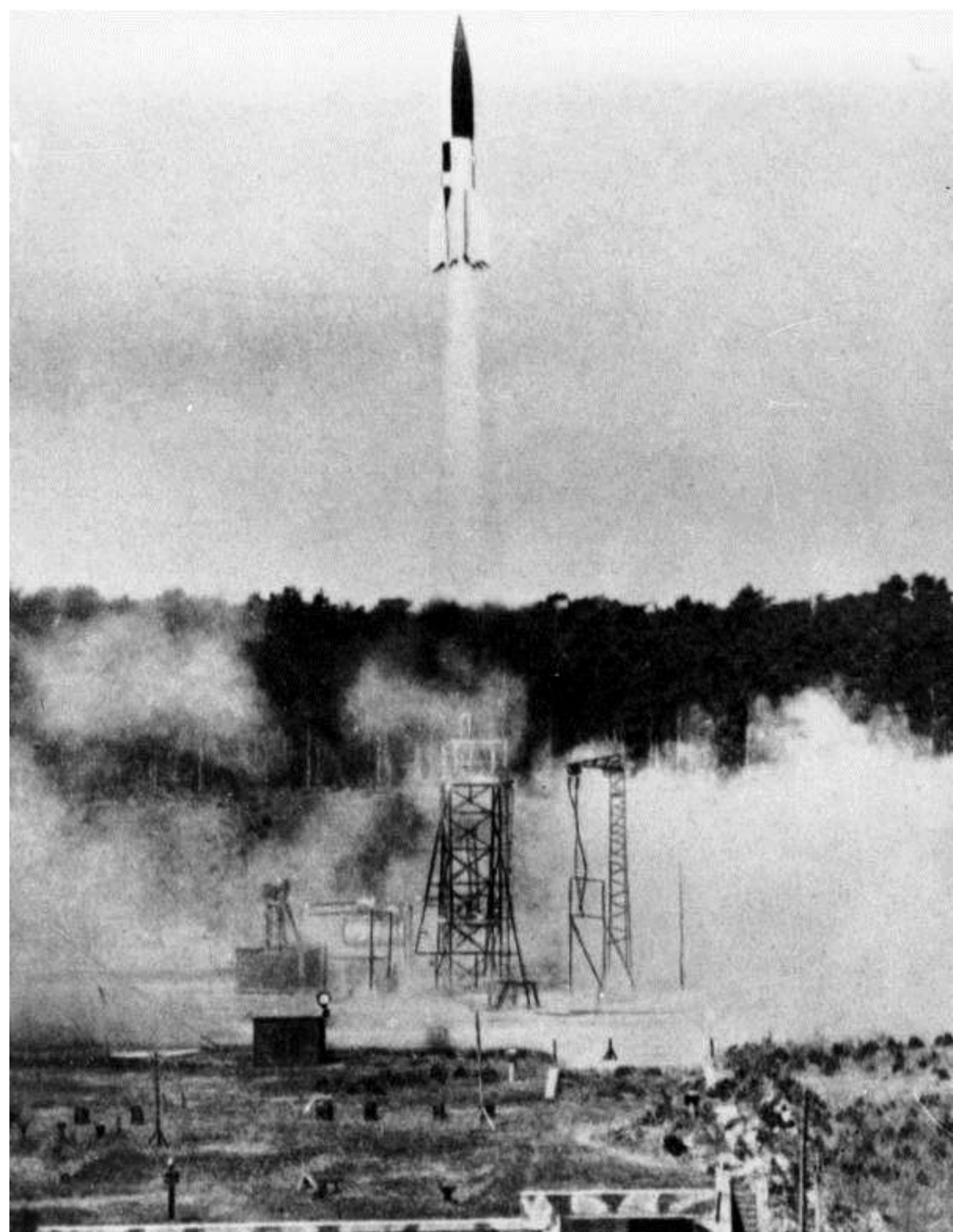
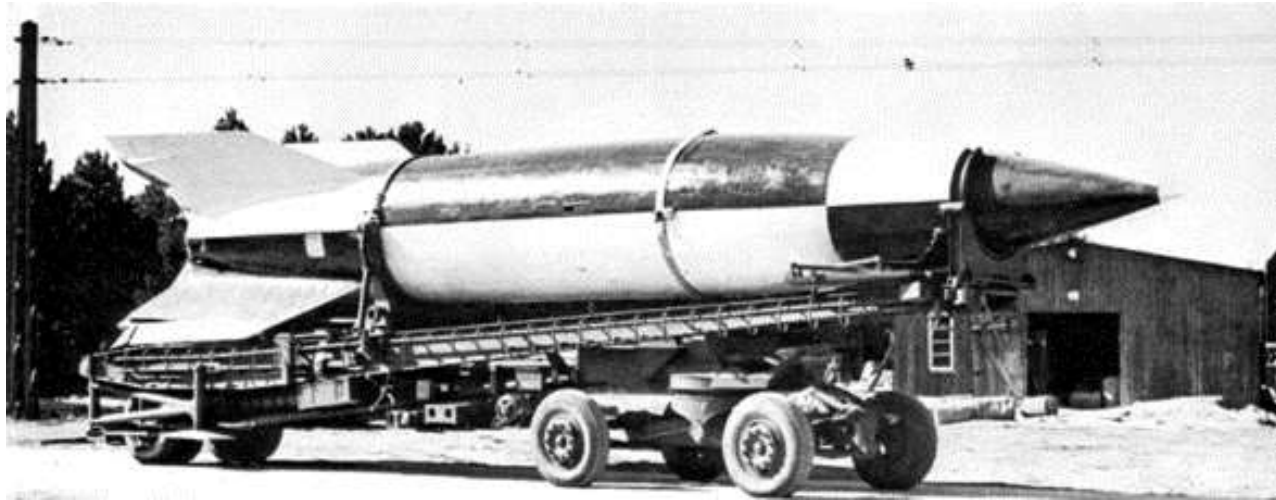


The first successful rocket was the...



V2!

On December 22, 1942 Adolf Hitler approved the production of a “vengeance weapon”.

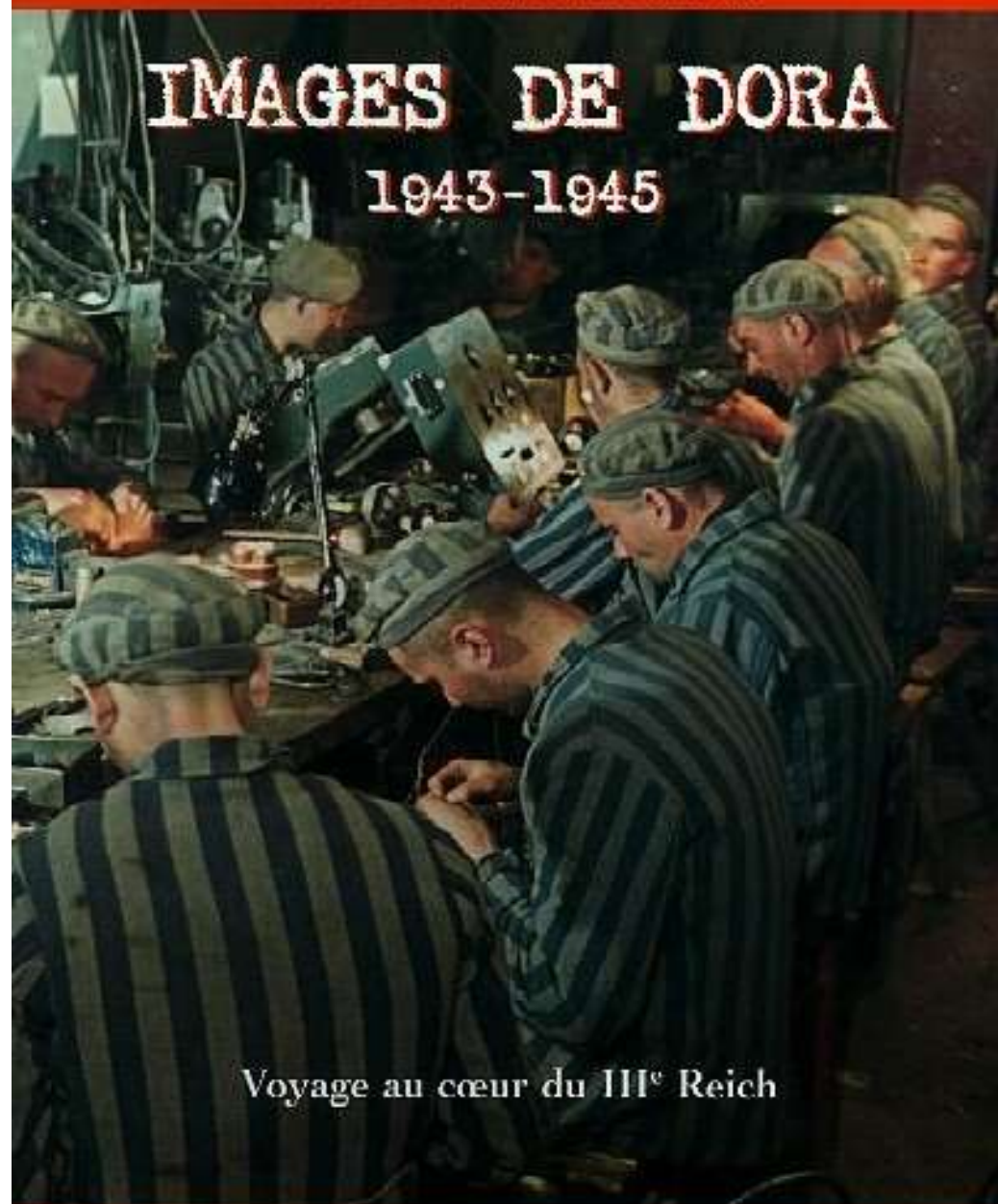




Yves LE MANER & André SELLIER

IMAGES DE DORA

1943-1945



Voyage au cœur du III^e Reich

La Coupole

Centre d'histoire de la Guerre et des Puissances





May 1945 Germany surrenders!

- 300 trainloads of V2 rockets are captured and shipped to the US.
- We also took 126 of Germany's rocket designers too!



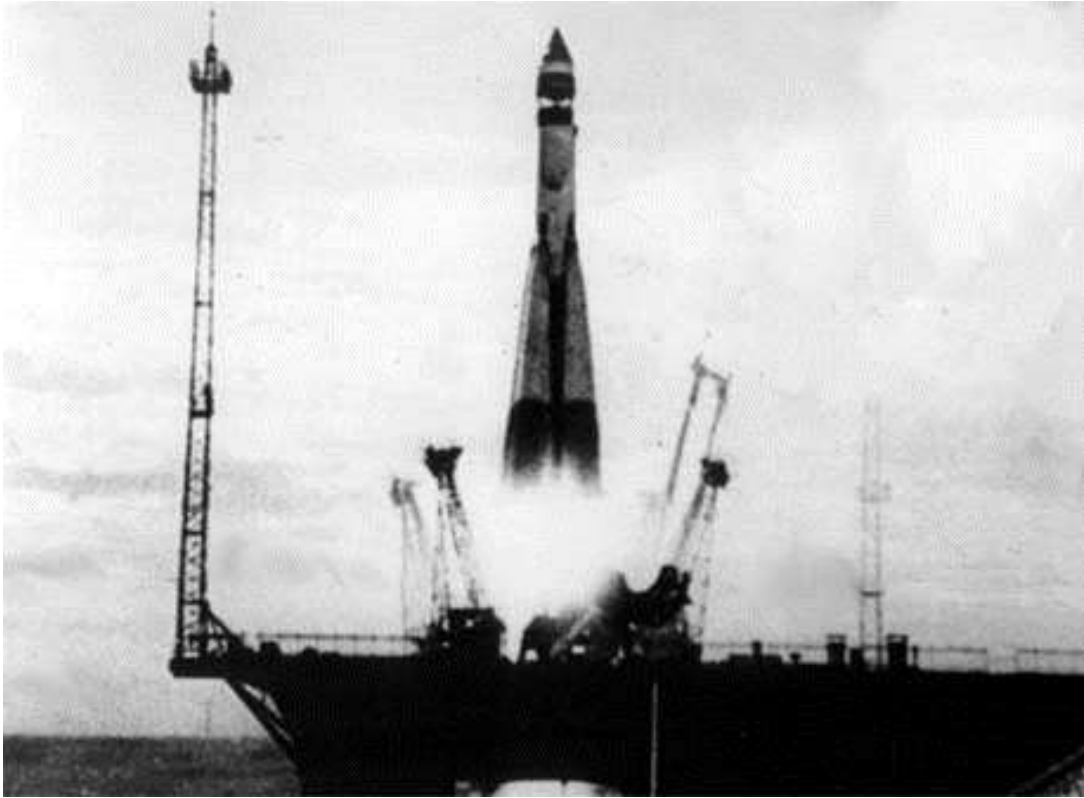
Project Paperclips



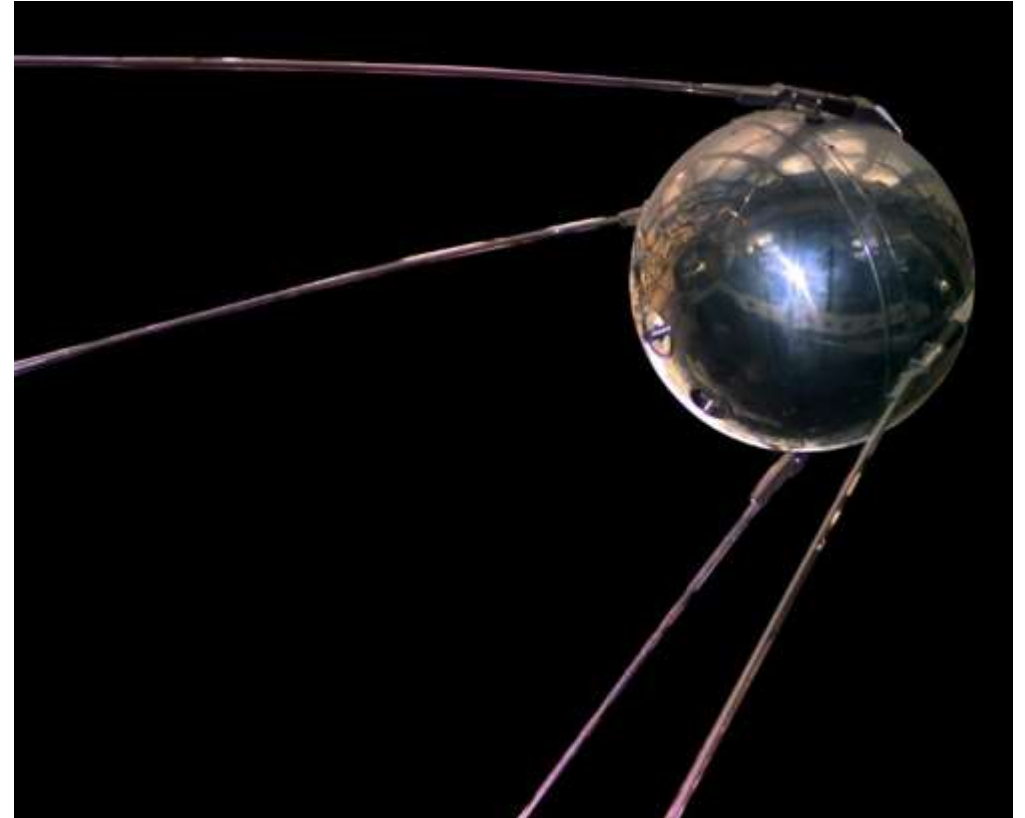
The US and the USSR competition for space



October 4, 1957

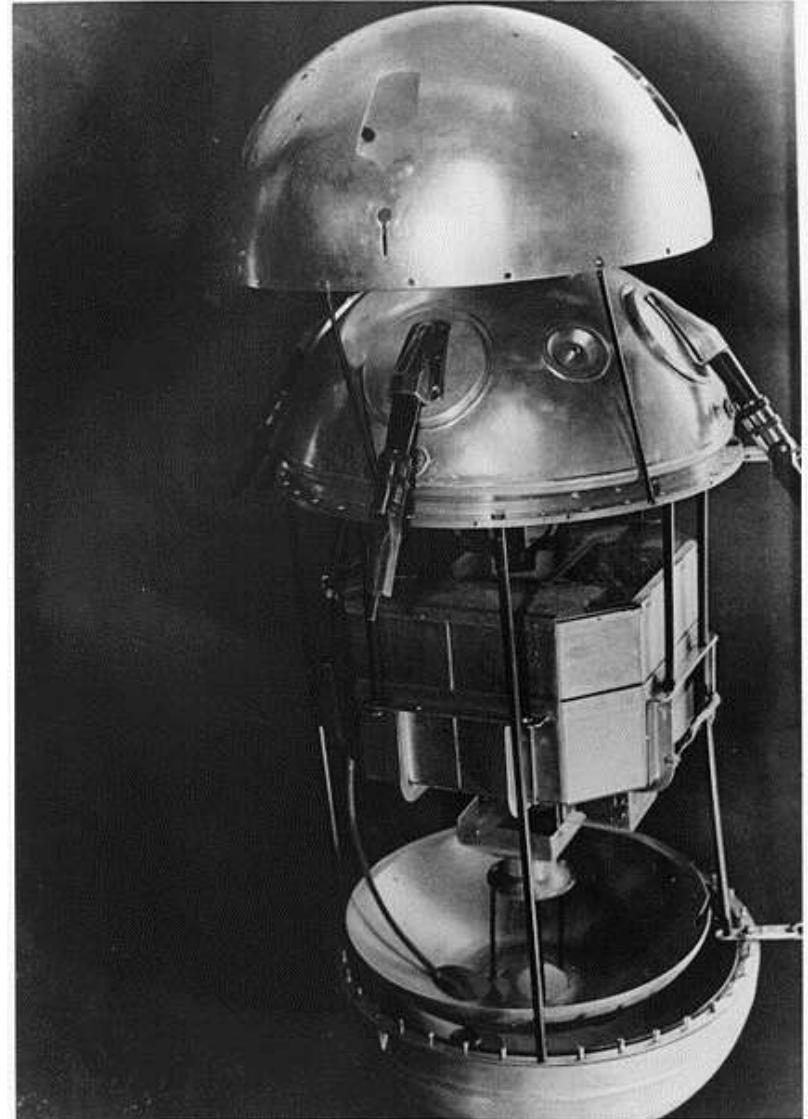
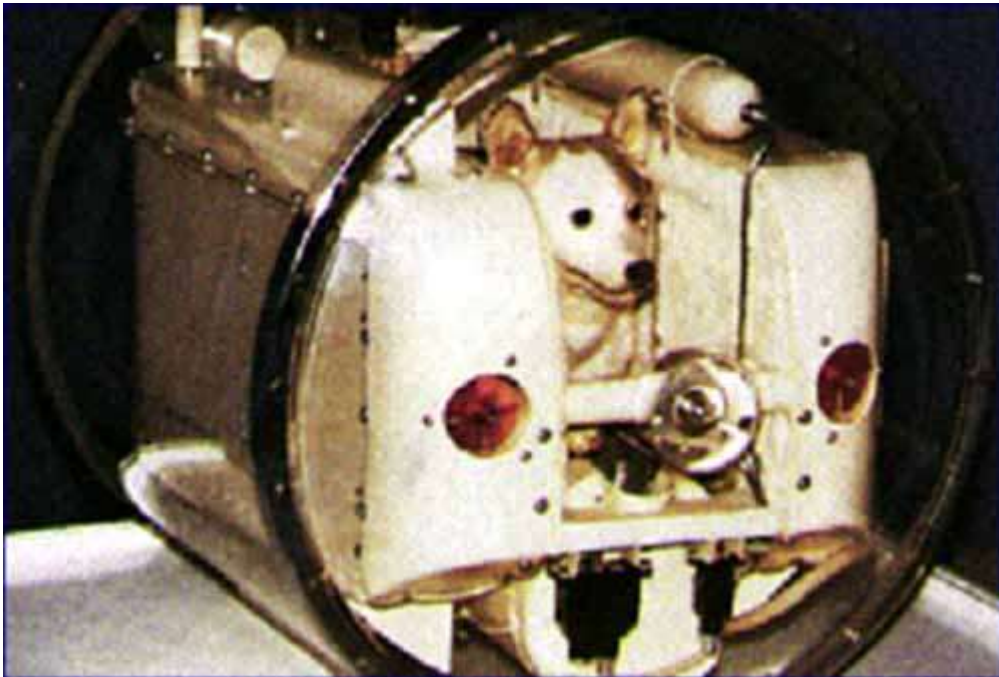


- The USSR launched Sputnik 1



Sputnik 2

- Sputnik 2 carried a dog named Laika

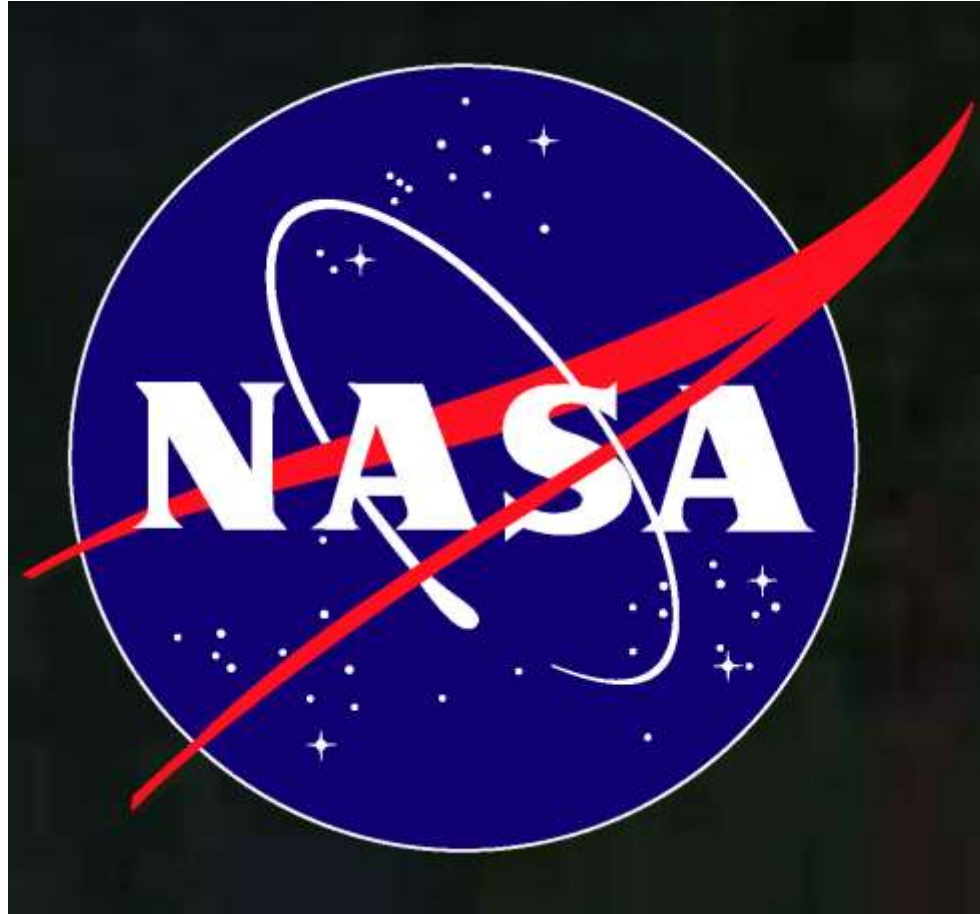


January 31, 1958

- The US space program began with Explorer 1.



NASA is established!

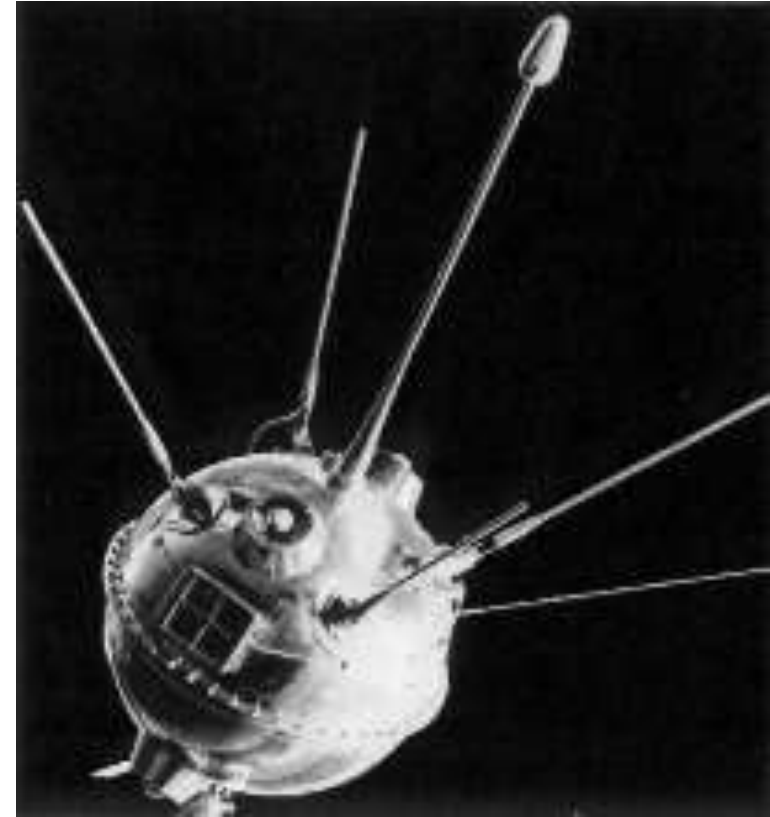


Project Mercury

- Goal of this program was to get a human to space, observe how a human performs in space and then return him safely!

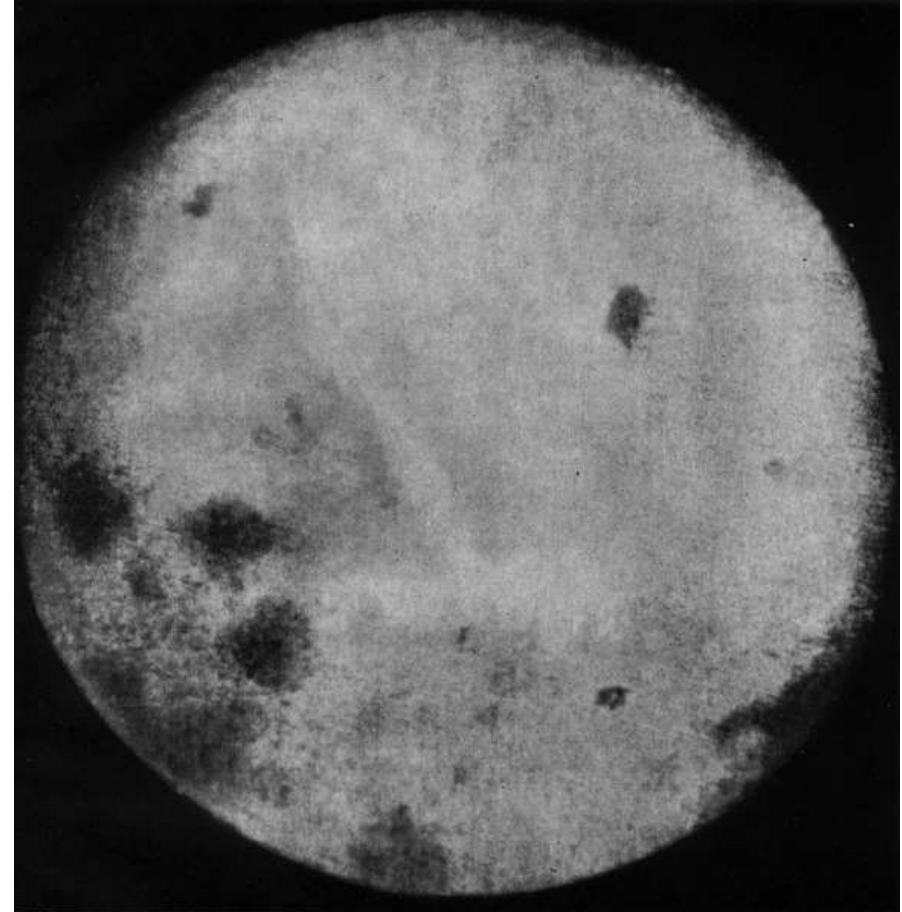


USSR creates Luna 1



The Moon or Bust!

- USSR had hit the moon and taken pictures of the far side of the moon!



In 1960 President Kennedy is elected!



Testing the limits!

- A chimp named Ham is sent on a 16 minute space flight.



Did Ham make it back?



Day #2 – The Space Race Continues

President Kennedy Speaks

- [Kennedy Speaks](#)



The 1960's are BUSY!

- 1961 – First man in space



Reds Orbit, Recover Space Man, Snatch Another Scientific First

Skeptics Feel Feat May Have Been Earlier

MOORE — A Russian President Kennedy and U.S. officials have agreed to meet in Moscow to discuss the space race. The meeting is expected to take place in the near future, and it is expected that the two sides will discuss the possibility of a joint space program.

It is the Soviet Union, however, that has been accused of having stolen the first satellite from the U.S. space program.

In Washington, space agencies have been accused of having stolen the first satellite from the U.S. space program.



Portrait of a man, likely a Soviet official involved in the space race.

Lincoln Evening Journal

AP-UP-WEAPHO * and Nebraska State Journal * CITY EDITION

PUBLISHED BY THE LINCOLN EVENING JOURNAL, 1001 N. 10TH ST., LINCOLN, NEB. 68502. PRINTED AT THE LINCOLN EVENING JOURNAL. POSTMASTER: THIS PUBLICATION IS MAILED AT THE SPECIAL RATE OF \$1.00 PER YEAR IN ADVANCE.

Nikita's Diplomacy May Grow Harder

Less Compromising Attitude By Soviet Chief Expected

WASHINGTON — Nikita's hard-line approach to international relations is expected to become more uncompromising as the Soviet Union's position in the world grows more difficult.

Merit Plan On Judges Is Advanced

U.S. Supreme Court May Adopt It

WASHINGTON — A merit plan for judges is being advanced by the U.S. Supreme Court, which may adopt it in the near future.

Three Fire Districts Proposed

For Four Outside City

CHICAGO — A plan to create three fire districts for four outside city areas is being considered by the city council.

Clouds Part, Sun Seen

Weather Forecasters Say

WASHINGTON — Weather forecasters say that clouds will part and the sun will be seen in the near future.

Grand Jury Indicts GM

On Charge of Violating Labor Laws

DETROIT — A grand jury has indicted General Motors on charges of violating labor laws.

Be Sure to Read...

Read the Lincoln Evening Journal for the latest news and information.

Frankie ASC Head

Wins Award for Achievement

CHICAGO — Frankie, head of the ASC, has won an award for his achievement in the field of science.

Weather Forecast

Forecast for the next few days: Partly cloudy with a chance of rain.

Muscovites Cheer Success



A large crowd of people in Moscow cheering and celebrating.

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Scientists Praising Soviet Space Feat

NASA Director Dodges Flight Splendid Achievement

WASHINGTON — Scientists are praising the Soviet Union's recent space feat, while NASA Director dodges the claim that it is a splendid achievement.

More on Red Space Flight

Page 5, C-1, B-1, D-1

More news on the Soviet space flight, including details of the mission and the reactions of the world.

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May 5, 1961

- Alan Shepard becomes 1st American in Space





President Kennedy wants Congress to finance NASA to put a man on the moon!



67

Space is open to us now; and our eagerness to share its meaning is not governed by the efforts of others. We go into space because whatever mankind must undertake, free men must fully share.

I therefore ask the Congress, above and beyond the increases I have earlier requested for space activities, to provide the funds which are needed to meet the following national goals:

First, I believe that this nation should commit itself to achieving the goal, before this decade is out, of landing a man on the moon and returning him safely to earth.

This ~~is a technological enterprise in which we are well on the way to striking progress, and which gives~~ promise of some day providing a means for even more exciting and ambitious exploration of space, perhaps beyond the moon, perhaps to the very ends of the solar system itself.

Third, an additional \$50 million will make the most of our present leadership by accelerating the use of space satellites for world-wide communications. When we have put into space a system that will enable people in remote areas of the earth to exchange messages, hold conversations,

and eventually see television programs, we will have achieved a success as beneficial as it will be striking.

Fourth, an additional \$75 million -- of which \$53 million is for the Weather Bureau -- will help give us at the earliest possible time a satellite system for world-wide weather observation. ~~Such a system will be of inestimable commercial and scientific value; and the information it provides will be made freely available to all the nations of the world.~~

Let it be clear that I am asking the Congress and the country to accept a firm commitment to a new course of action --

a course which will last for many years and carry very heavy costs -- ^{\$31.4 billion} an estimated \$7-9 billion additional over the next five years. If we were to go only halfway, or reduce our sights in the face of difficulty, it would be better not to go at all. ^{There is the chance that finally you will see the} Let me stress also that more money alone will not do the job. ^{to have a new decision}

^{There is the chance that finally you will see the} This decision demands a major national commitment of scientific and technical manpower, material and facilities, and the possibility of their diversion from other important activities where they are already thinly spread. It means a degree of dedication,

The US suffers a setback

- The hatch on the Liberty Bell 7 blows and the capsule sinks to the bottom of the ocean



The USSR strikes back!

- August 1961 they complete the first day long flight.

The US strikes back!

- February 1962 John Glen has the first orbital flight for the US.



A USSR first in 1962

- Vostok 3 launches!



- One day later Vostok 4 launches!

They become the first country to control 2 rockets in orbit.

1963

- Gordon Cooper becomes the 1st American to sleep in space.



USSR 1963

- They send the first woman into space.



The US has a setback

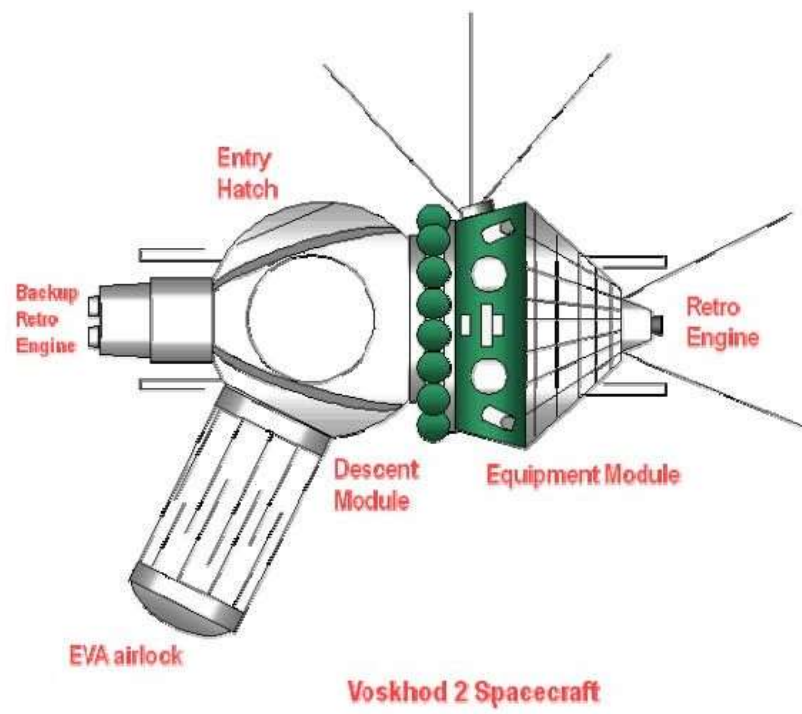
- President Kennedy is assassinated in Dallas, TX.



1965 – a USSR first

- They conduct the first spacewalk.
- A spacewalk is when astronauts leave the spacecraft and can move outside of the spacecraft.





RUSSIAN TAKES SPACE SWIM

—TO PROTECT MARCHERS— Johnson Offers To Call Guard

MANHATTAN, N.Y. (AP)—George C. Wallace, head of the Citizens' Party, said today he would call for a federal guard to protect marchers in New York City during the anti-war demonstration scheduled for Saturday.

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MONDAY ... Outside ship. Photo is from TV transmission to Moscow from craft, officials said.

Lomax Claims People Need Renewing POVERTY PLAN CANT SUBSTITUTE FOR SELF-RESPECT

WASHINGTON, March 18 (AP)—Lester Lomax, director of the Office of Economic Opportunity, said today that the federal government's poverty program cannot substitute for self-respect.

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GENIUM PARTS ... displayed by Myers

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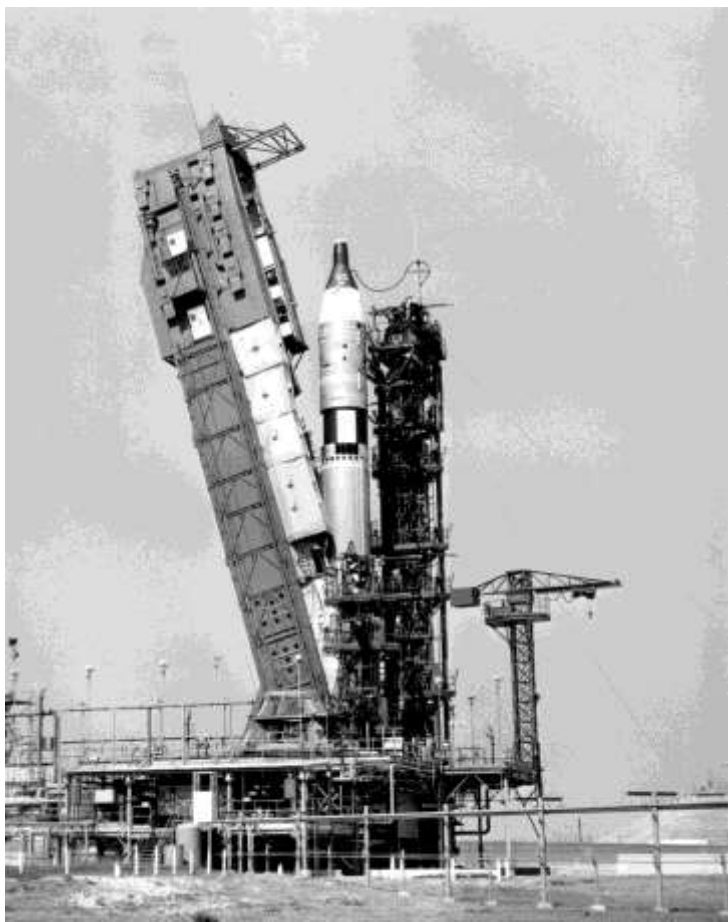
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The US would not be outdone in 1965!



Project Gemini begins for the US

- These missions were designed to be longer and include multi-ship docking.
- Gemini means “twin”...why would NASA need these missions to be successful?



The birth of Apollo

- 1967 NASA began the famous Apollo Missions



Meanwhile, back in the USSR

- Yuri Gagarin is killed in a fighter jet crash.



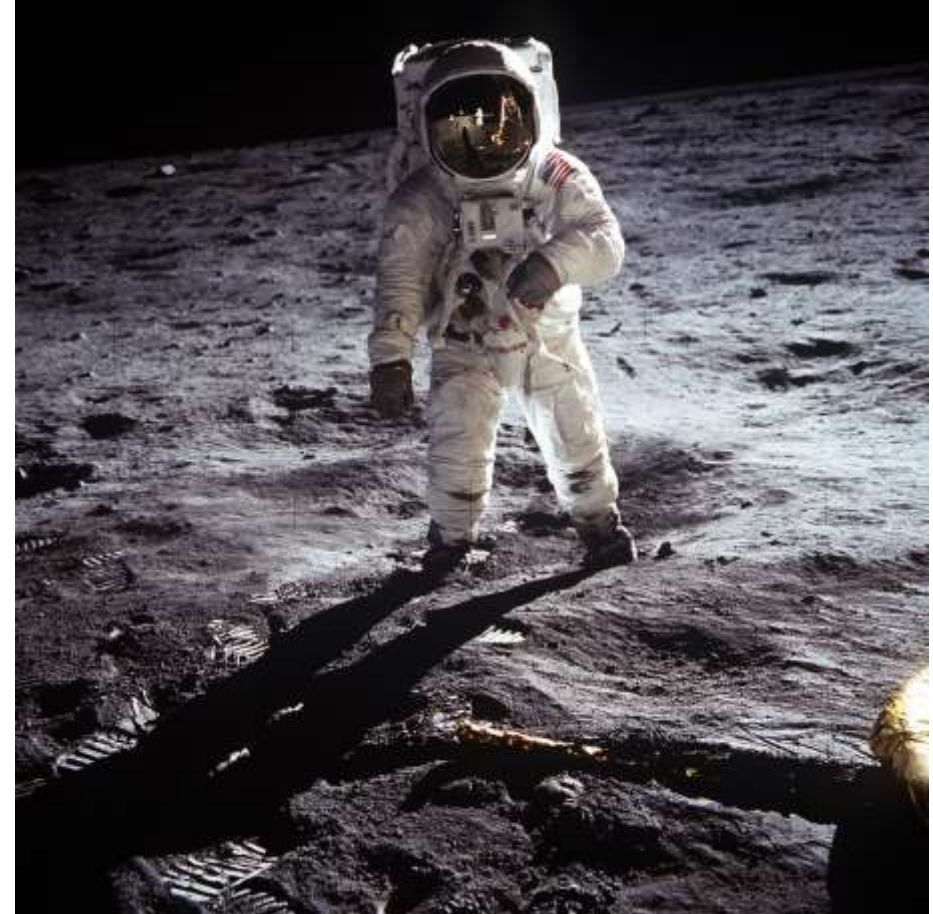
Apollo Missions

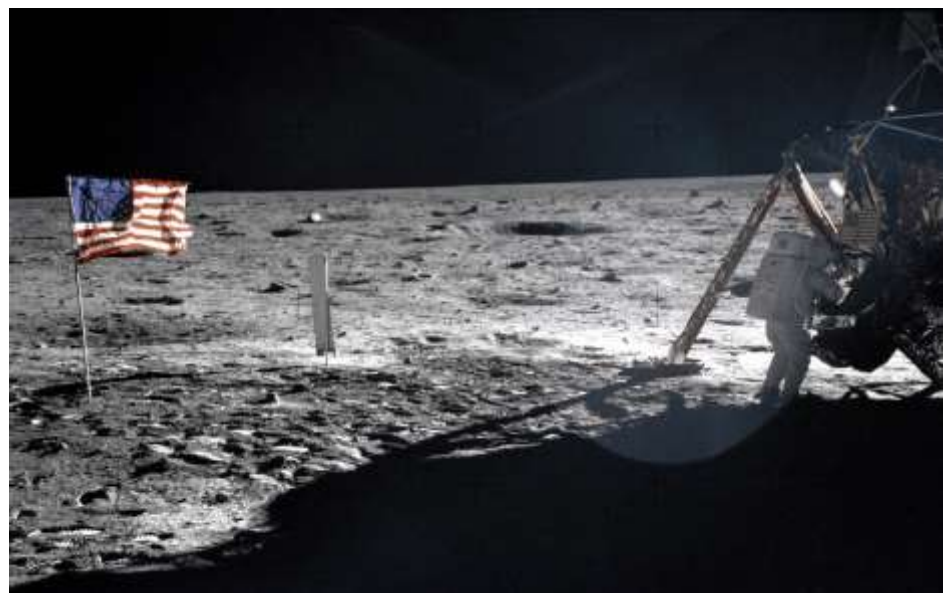
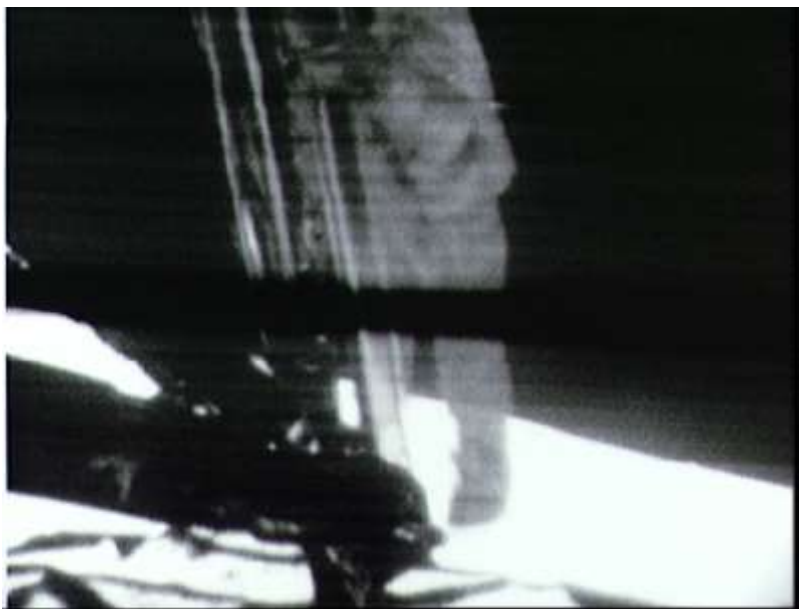
- Apollo 1 – blew up before launching

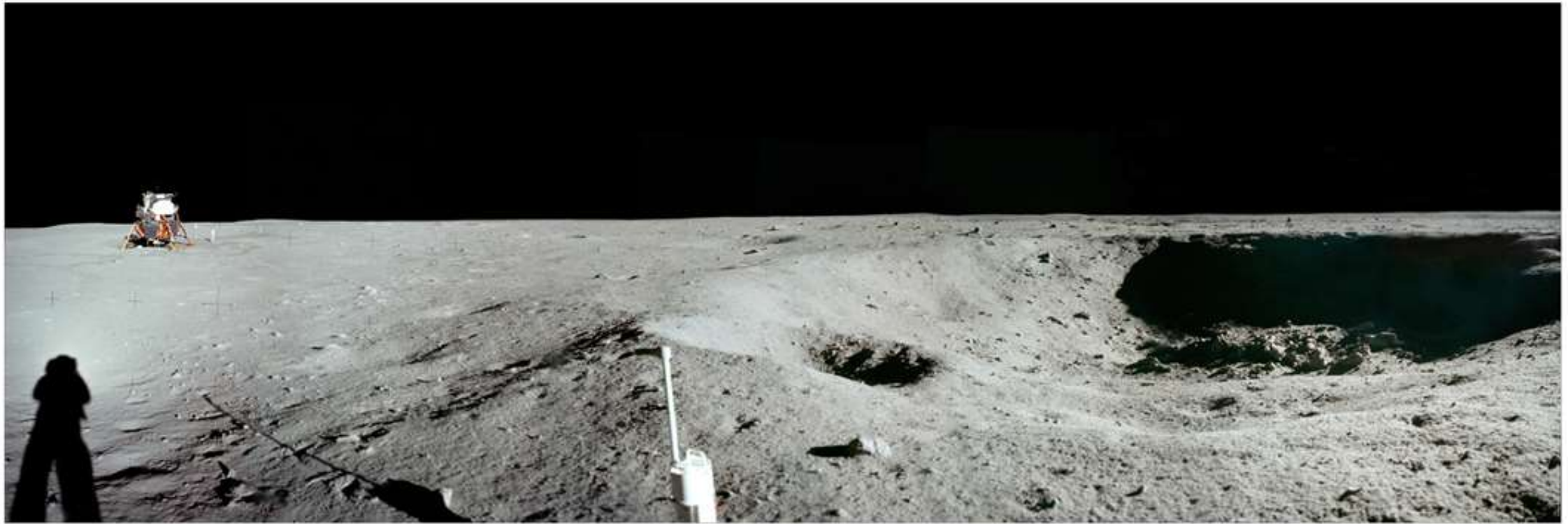


Apollo 11

- Americans had successfully landed on the moon.
- It took less than 10 years to complete this task







Apollo 11 - Commander Neil Armstrong's pan of East Crater, with LM Eagle in the background

© moonpans.com

We're On The Moon!

The Coshocton Tribune

Action News
 Local Stories
 Variety Tribune

JUL 21 1969
 CASHOCTON, MISS. 38001
 MONDAY, JULY 21, 1969

THE 1969
 THE 1969

★ ★ ★ ★ ★

'One Small Step For Man...
 One Giant Leap For Mankind'

★ ★ ★ ★ ★

We're On The Moon: Liftoff Scheduled This Afternoon

NASA'S APOLLO 11 mission, the first to land men on the moon, is scheduled for liftoff at 2:45 p.m. today from the Kennedy Space Center, Fla. The mission is being watched by millions of people around the world.

The Apollo 11 mission is the first of three flights in the Apollo program. The other two flights, Apollo 12 and Apollo 13, are scheduled for later in the year.

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Neil Armstrong

Michael Collins

Edwin E. Aldrin Jr.

'Coming Down... Looking Good... Eagle Has Landed!'




HERE MEN FROM THE PLANET EARTH
 FIRST SET FOOT UPON THE MOON
 JULY 1969, A. D.

WE CAME IN PEACE FOR ALL MANKIND



NEIL A. ARMSTRONG
 ASTRONAUT



MICHAEL COLLINS
 ASTRONAUT



EDWIN E. ALDRIN, JR.
 ASTRONAUT



RICHARD NIXON
 PRESIDENT, UNITED STATES OF AMERICA

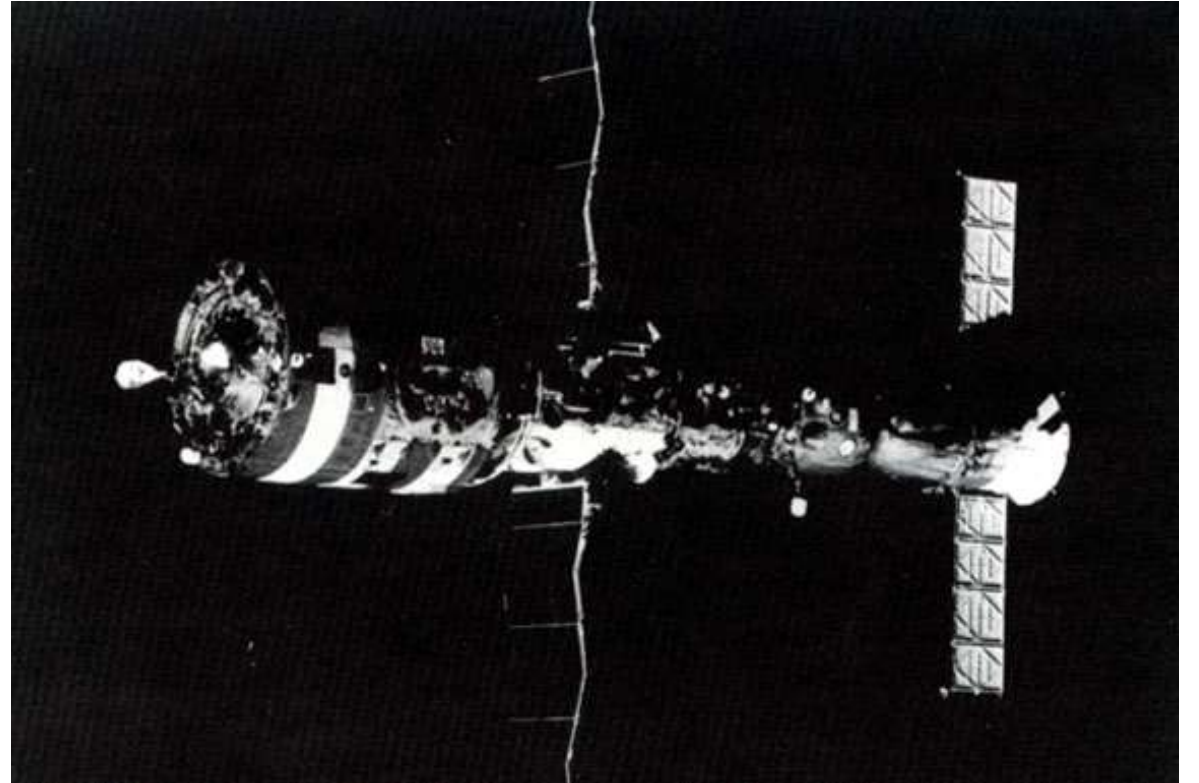
Apollo 13

- Failed to land on the moon due to system failures.
- They made a movie about this mission.



The first space station

- Launched in 1971 by the USSR



Soyuz-Apollo Joint Mission

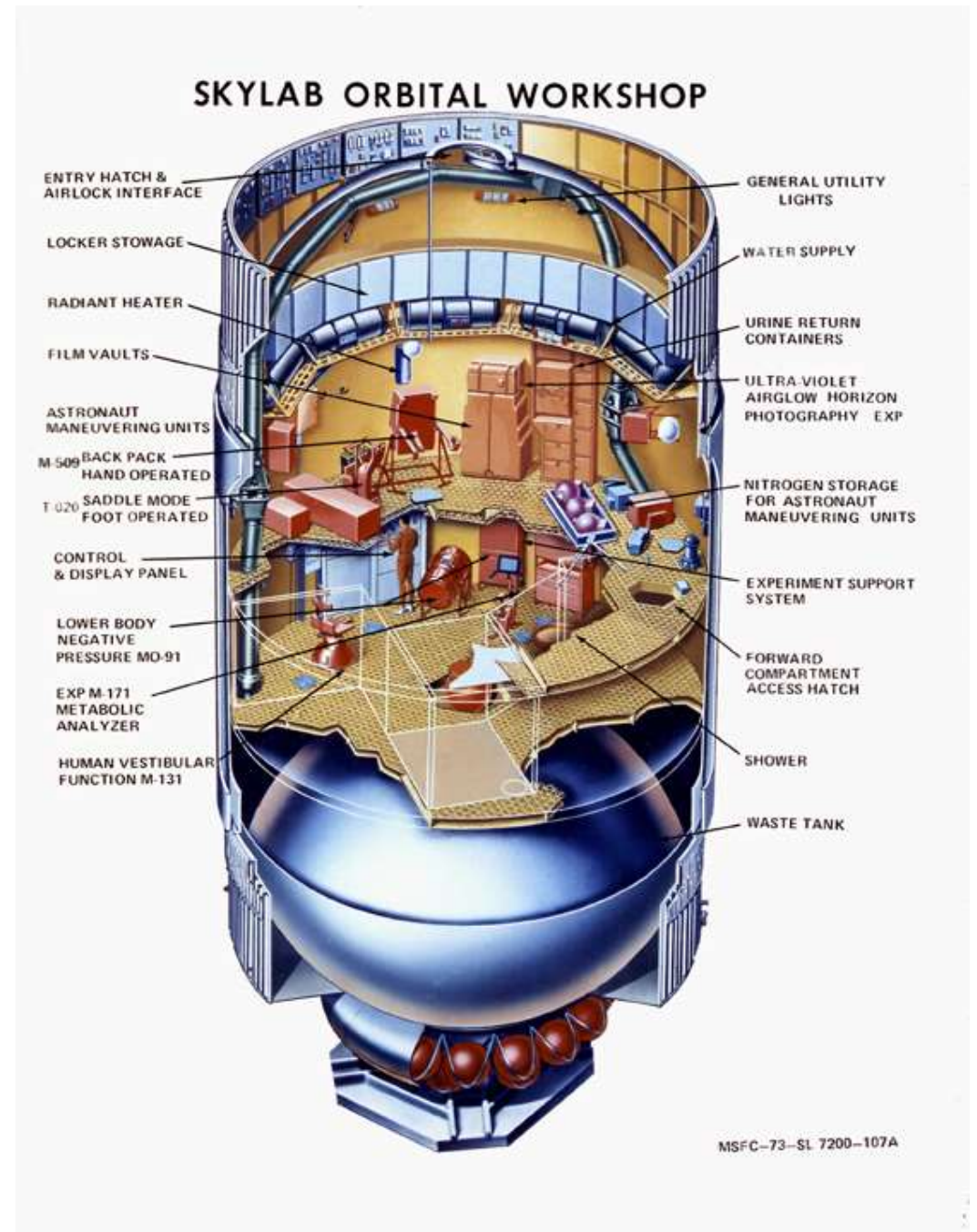


- July, 1975
- [Video Clip](#)

Day #3 – The Space Race
Comes to an End

Skylab

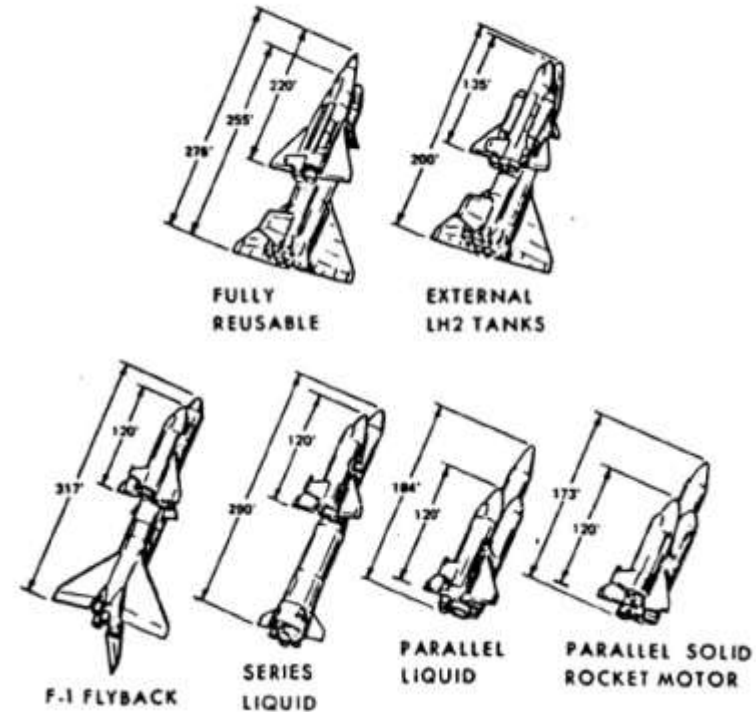
- 1973 – the US space station



1976 – Space Shuttle Enterprise

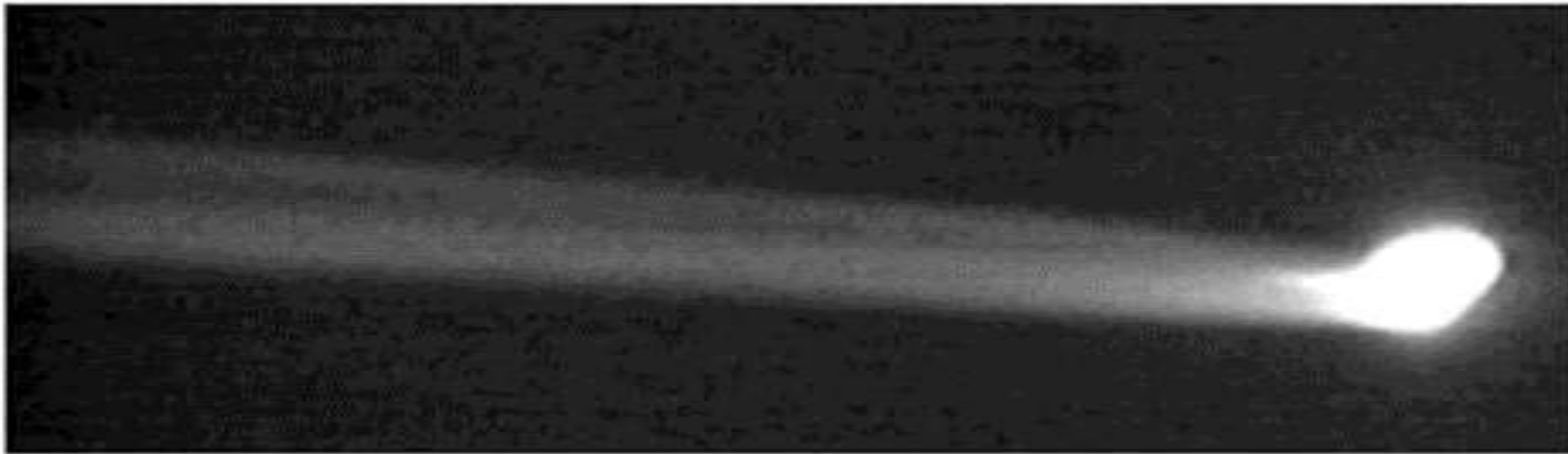
- Originally called the Constitution, but fans of Star Trek petitioned the White House to change the name.

SPACE SHUTTLE COMPARISON



April 12, 1981

- Columbia has heat tile issues. Crew said had they known of this issue at take off, they would have ejected to safety.



June 18, 1983

- Challenger 7 – Carrying the first woman.



August 30, 1983

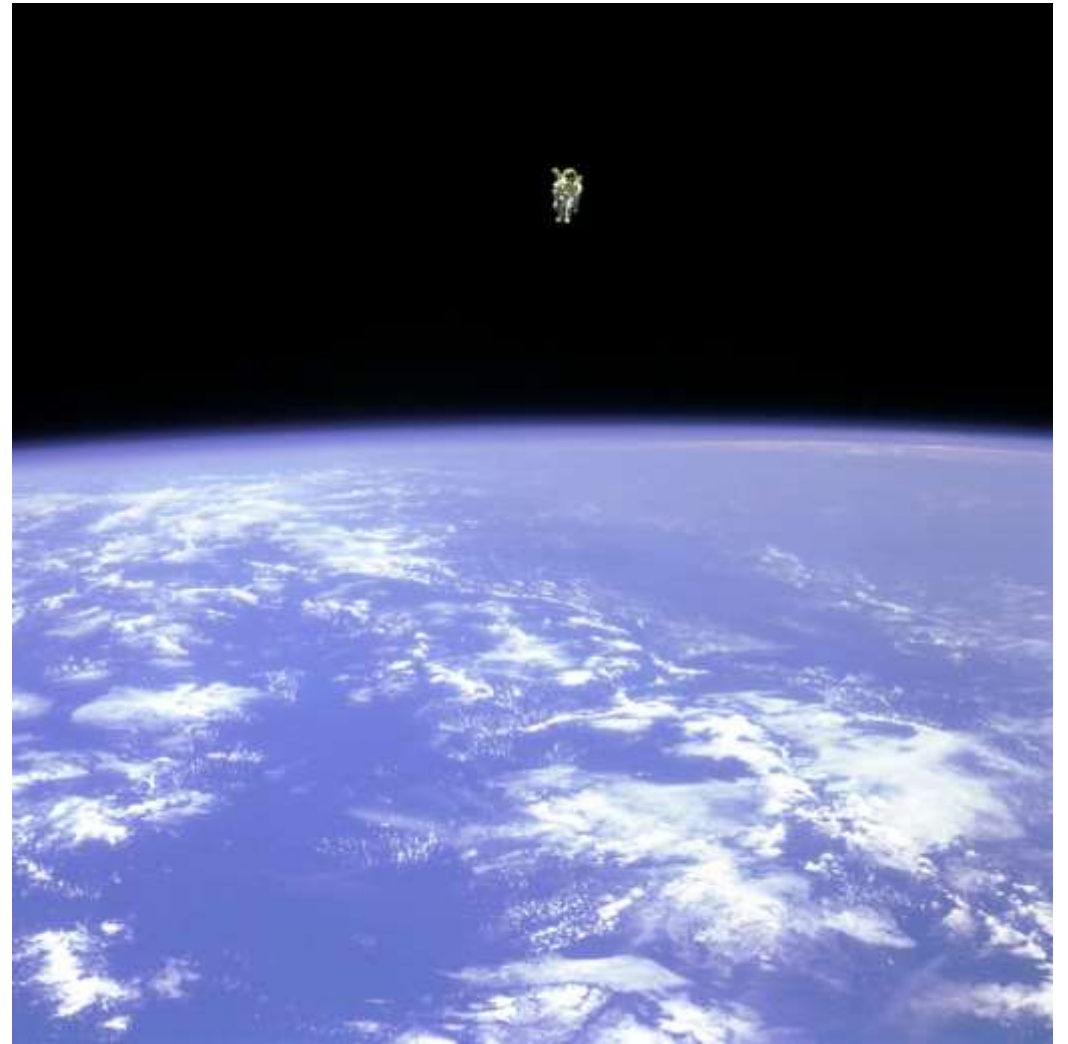
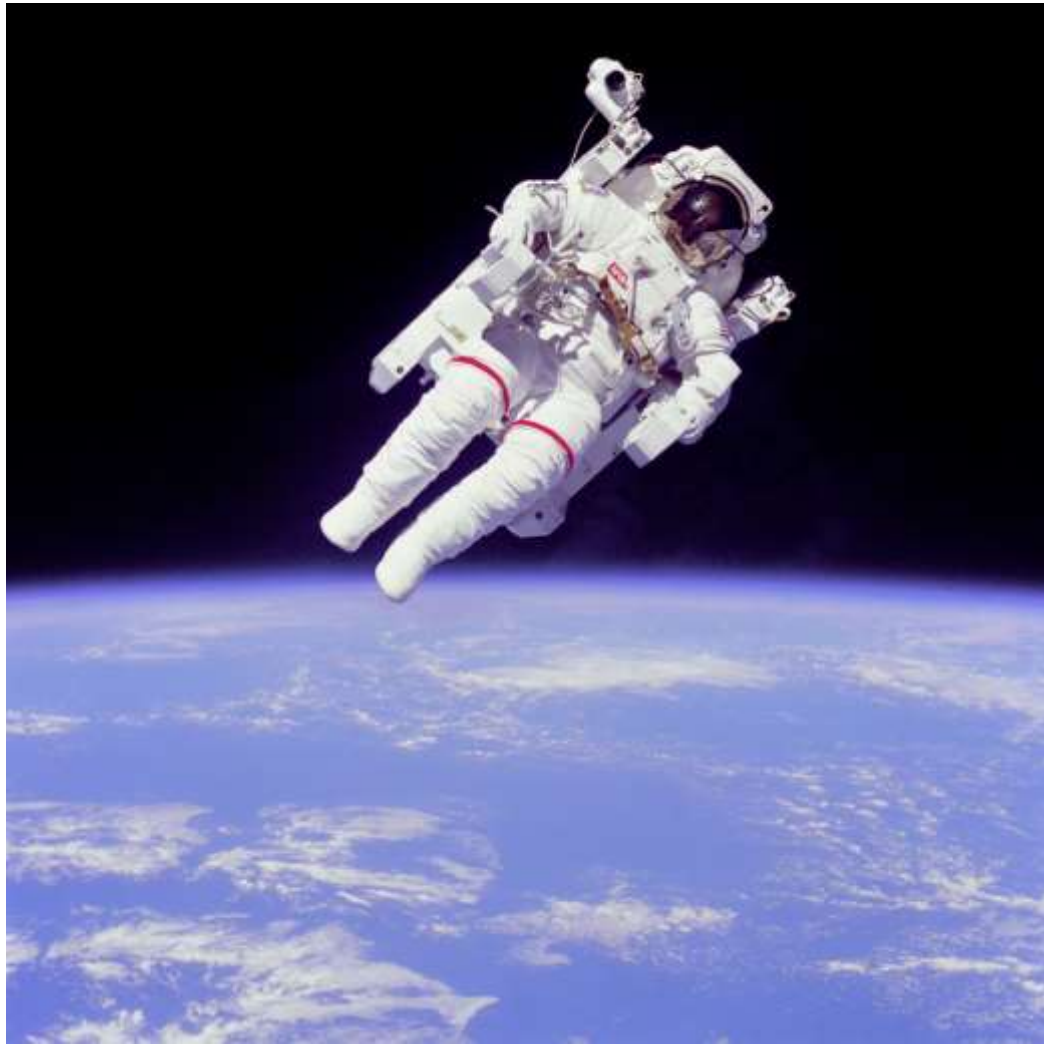
- Challenger 8 – First African American in space



February 3, 1984

- Challenger 10 – first untethered space walk.

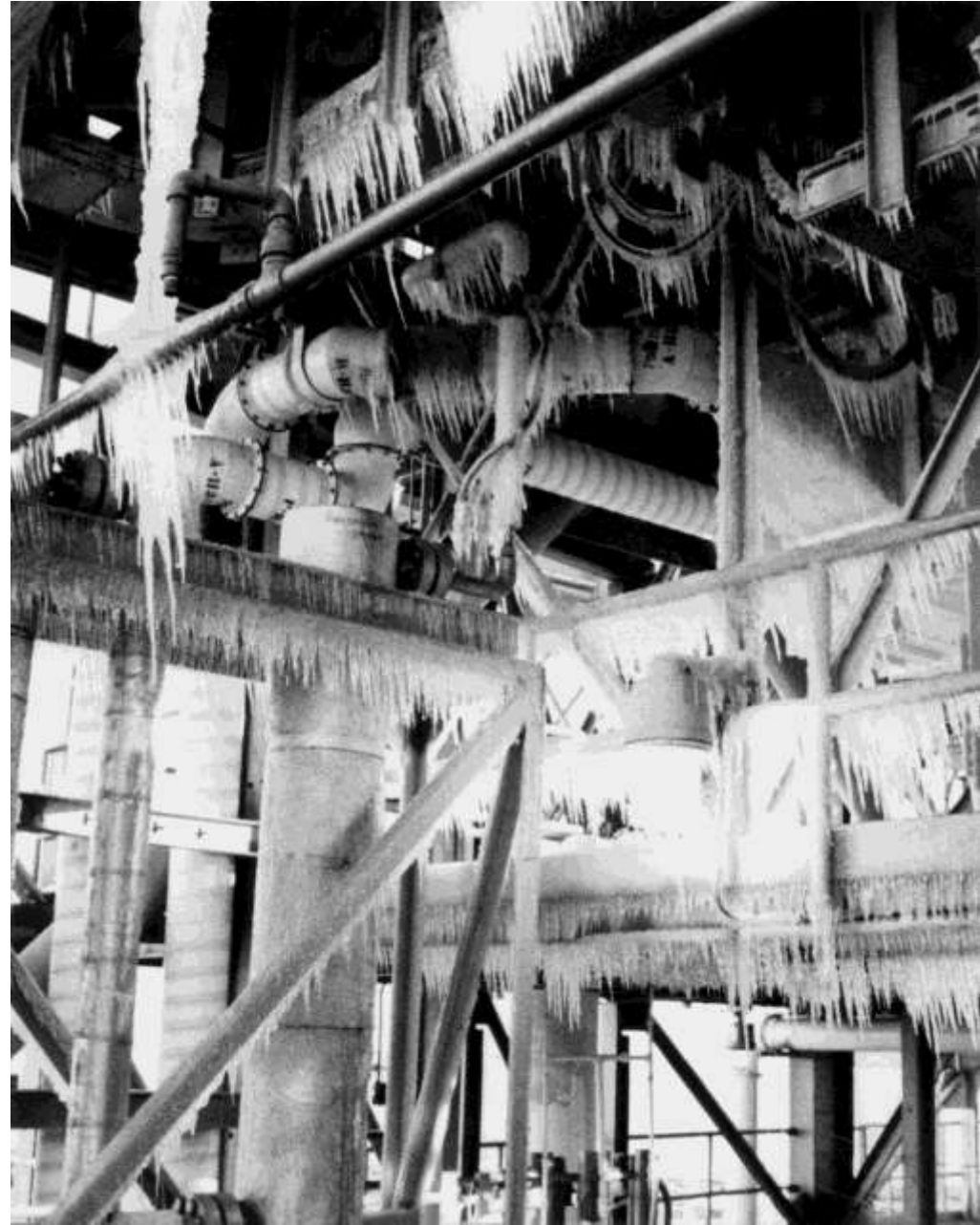




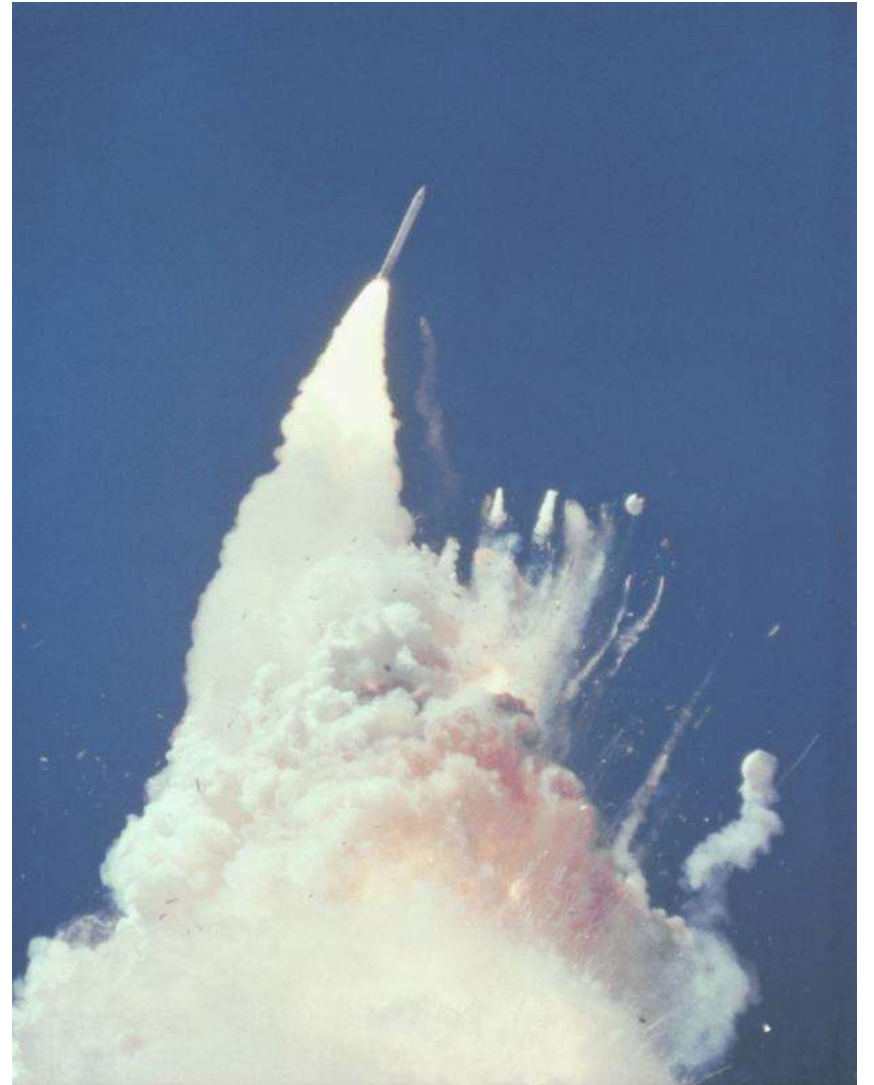
January 28, 1986

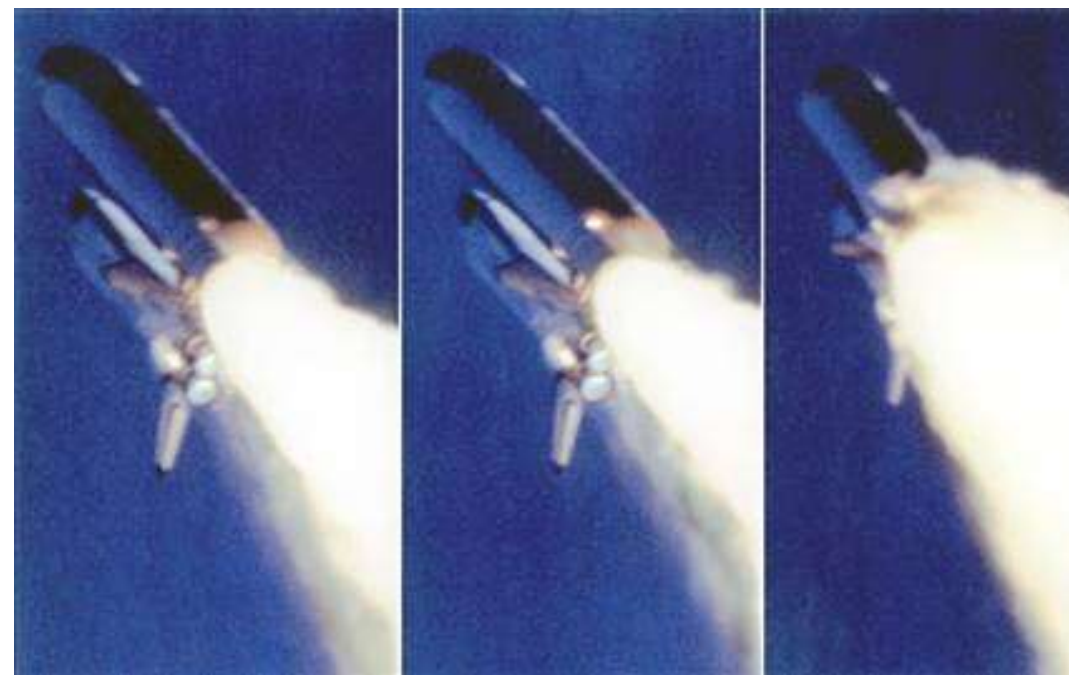
- Challenger launched carry the first teacher.



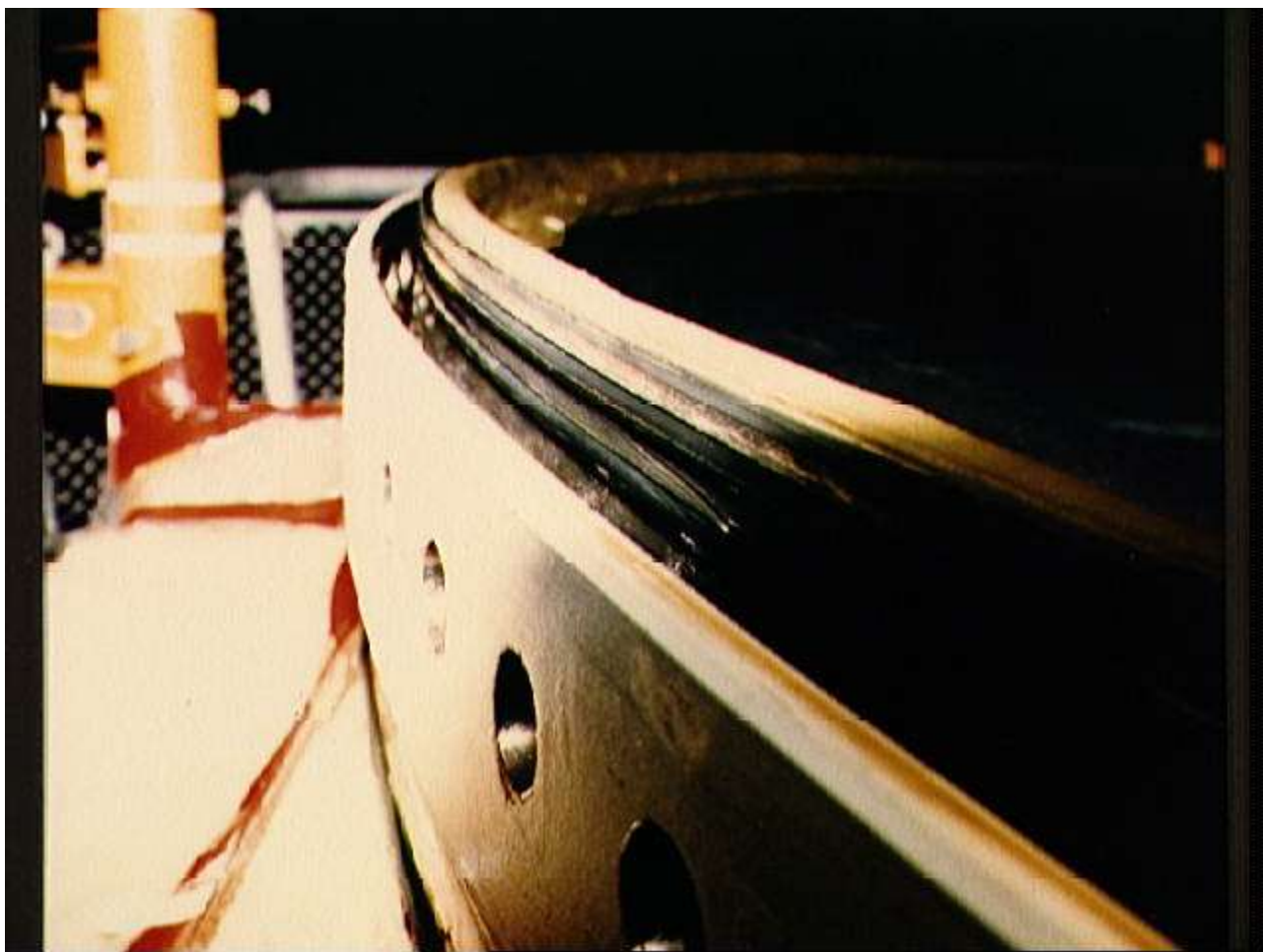














February 1986

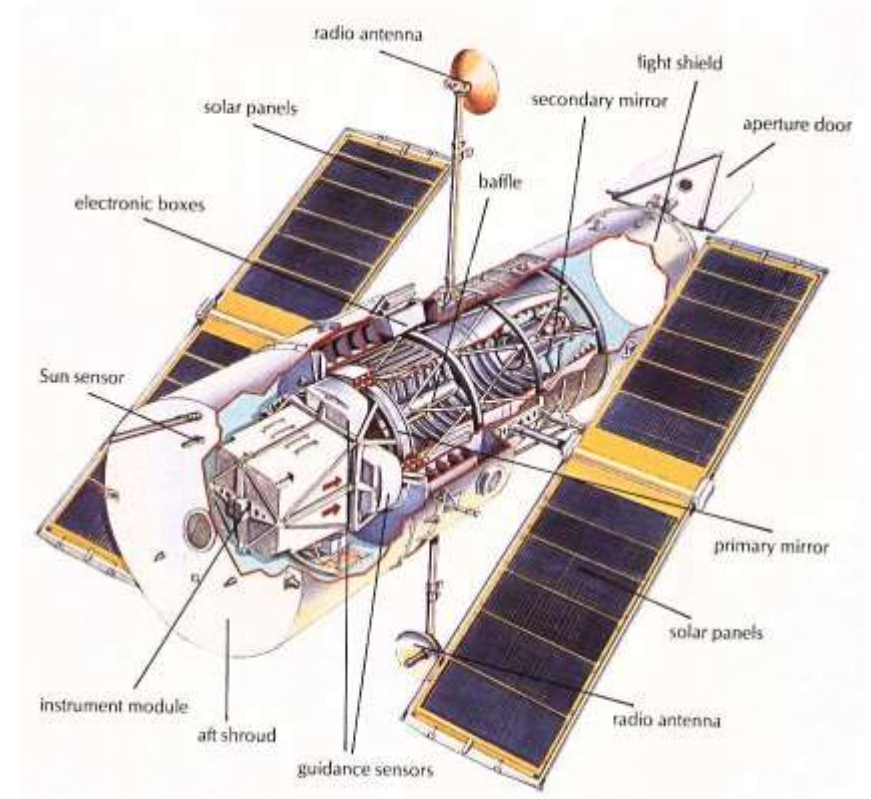
- USSR launches MIR.
- This was the first space station

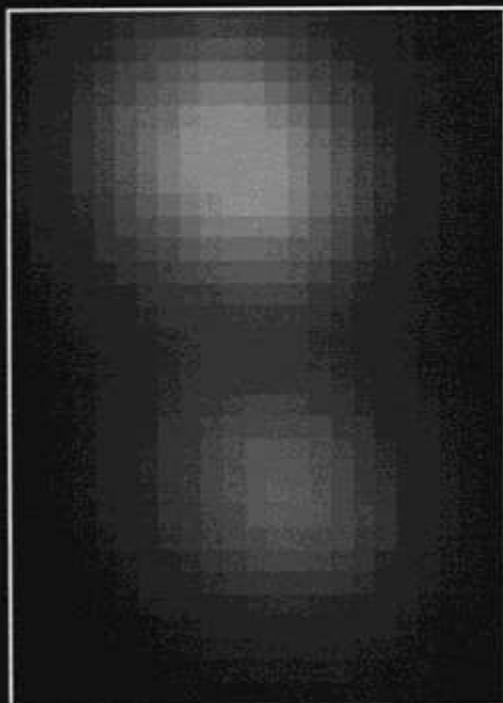


April 24, 1990

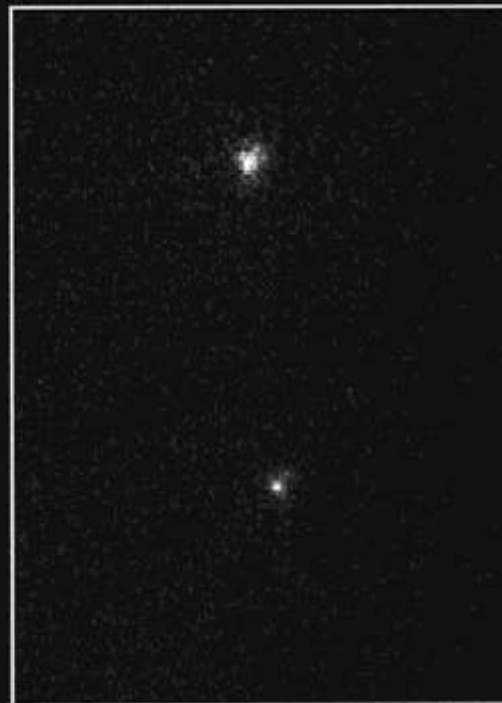
- The US launches the first pieces of the Hubble Telescope.







Ground-based Image
Nordic Optical Telescope



Faint Object Camera
Hubble Space Telescope

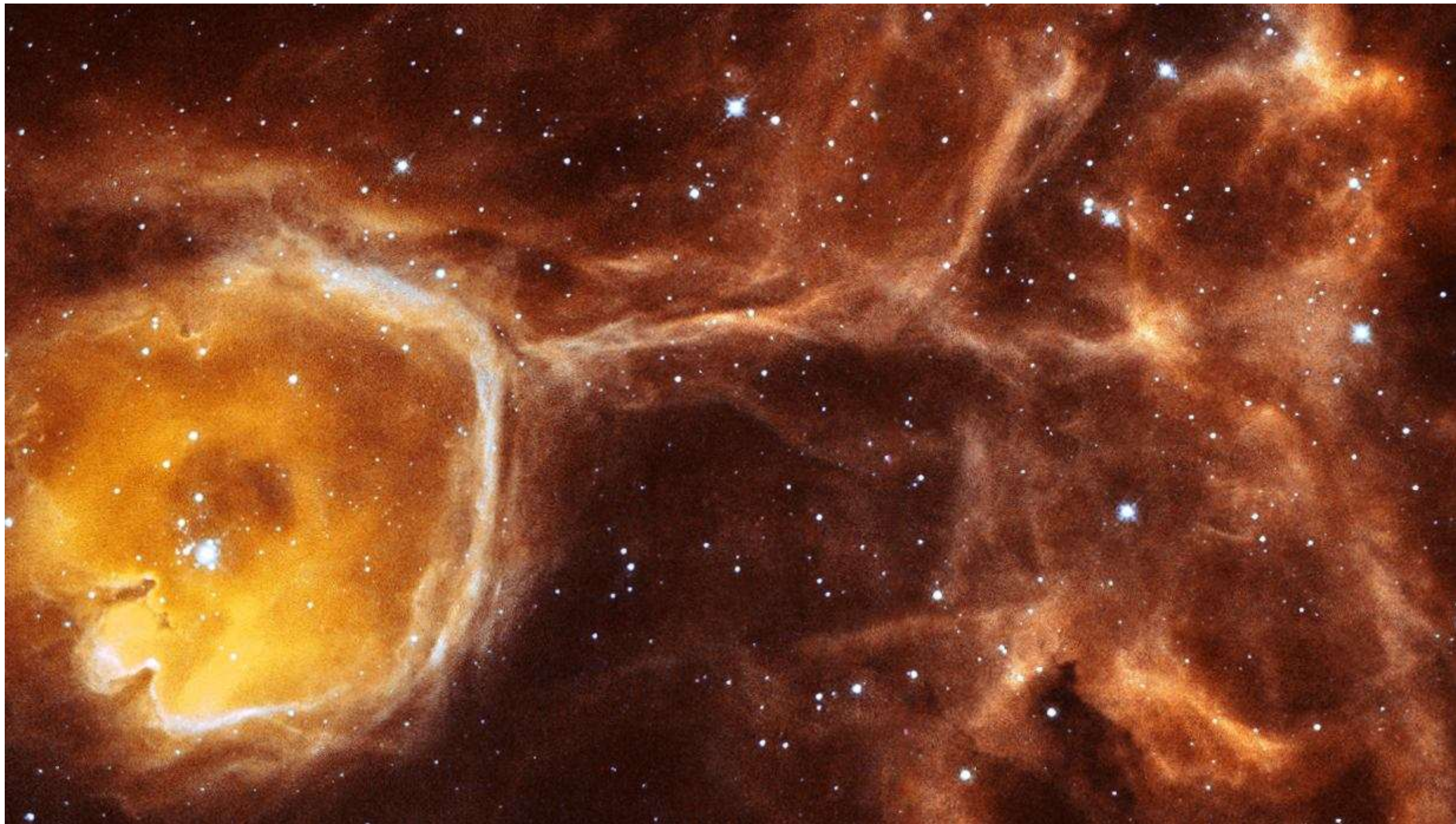
NASA

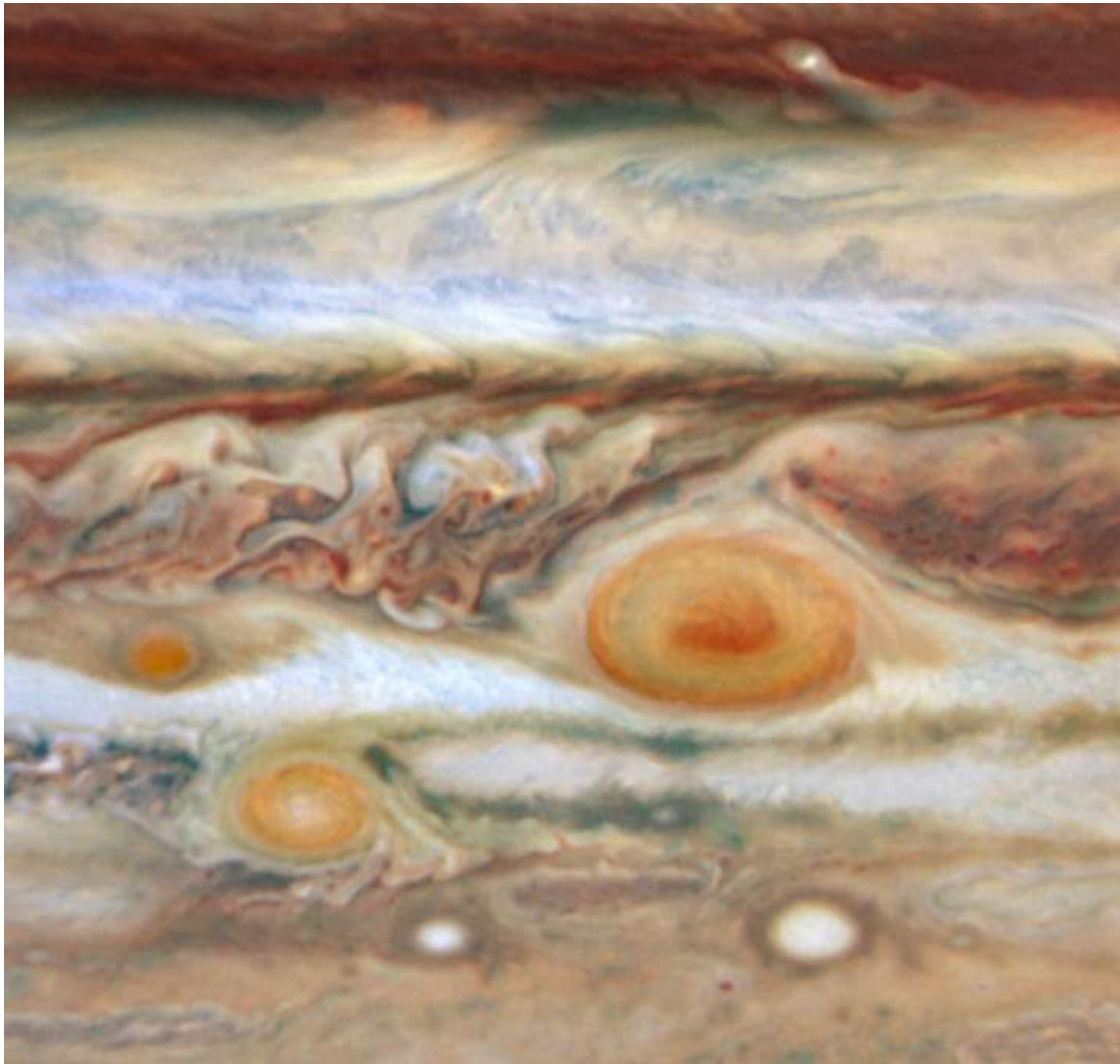


esa













June 27, 1995

- The US Shuttle docks with MIR



November 20, 1998

- The first pieces of International Space Station (ISS) is launched on a Russian rocket.

