



Space Shuttle Columbia on the way to the pad in Florida

Three pieces:

Orbiter OV-102 Columbia, a winged spaceship

External Tank ET-93, a large orange gas tank

The two Solid Rocket Boosters RSRM-88



Columbia launches on flight STS-107 from pad 39A

2003 Jan 16



Columbia launches on flight STS-107



8 minutes after launch, Columbia dumps the ET tank.

This photo from the earlier STS-112 mission is taken just after ET separation and shows the bipod where the foam came loose.

The tank goes 3/4 of the way around the world and falls into the Pacific Ocean.



S107E05359

Columbia in orbit on mission STS-107.

The payload bay doors are open, we are looking through the cabin's rear window

There is a tunnel connecting the cabin to the Spacehab laboratory in the cargo bay

You can see the tips of the wings, which look fine at this stage



S107E05858

Dave Brown, Michael Anderson, Kalpana Chawla, and Ilan Ramon



S107E05001

Kalpana Chawla floats in Columbia's cabin



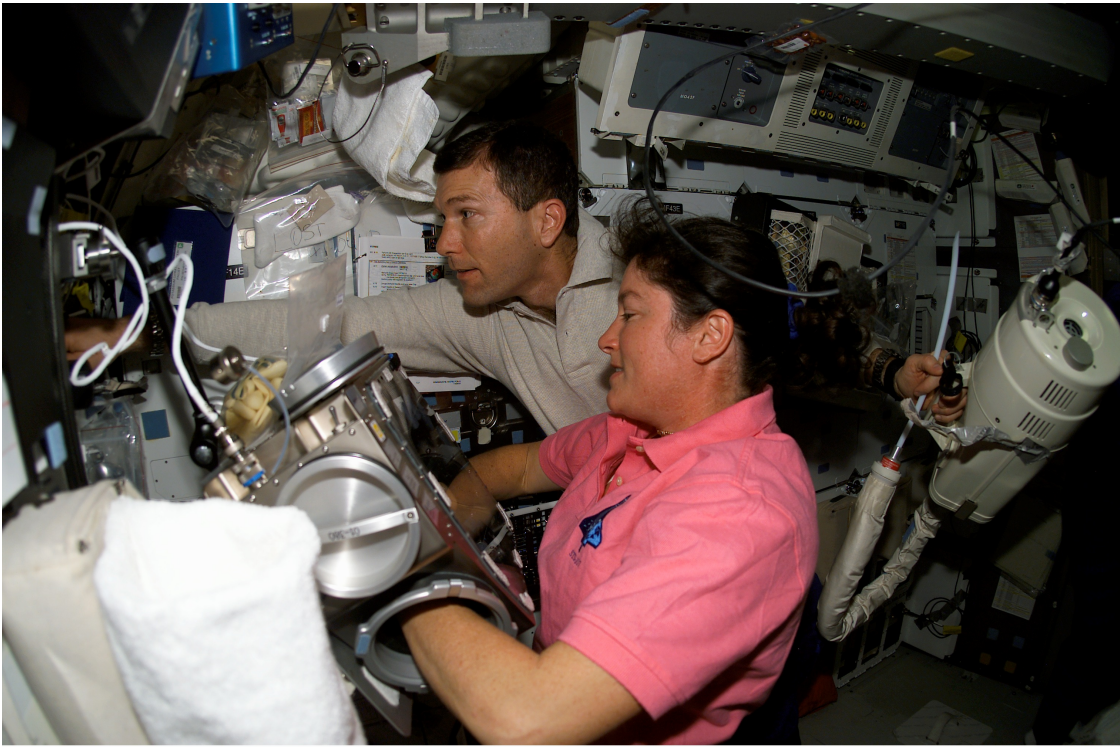
S107E05167

Laurel Clark has a bad hair day



S107E05214

Pilot Willie McCool



S107E05745

Rick Husband and Laurel Clark



S107E05685

Hanging out in space



S107E05220

How the astronauts sleep



S107E05485

Earth seen by Columbia

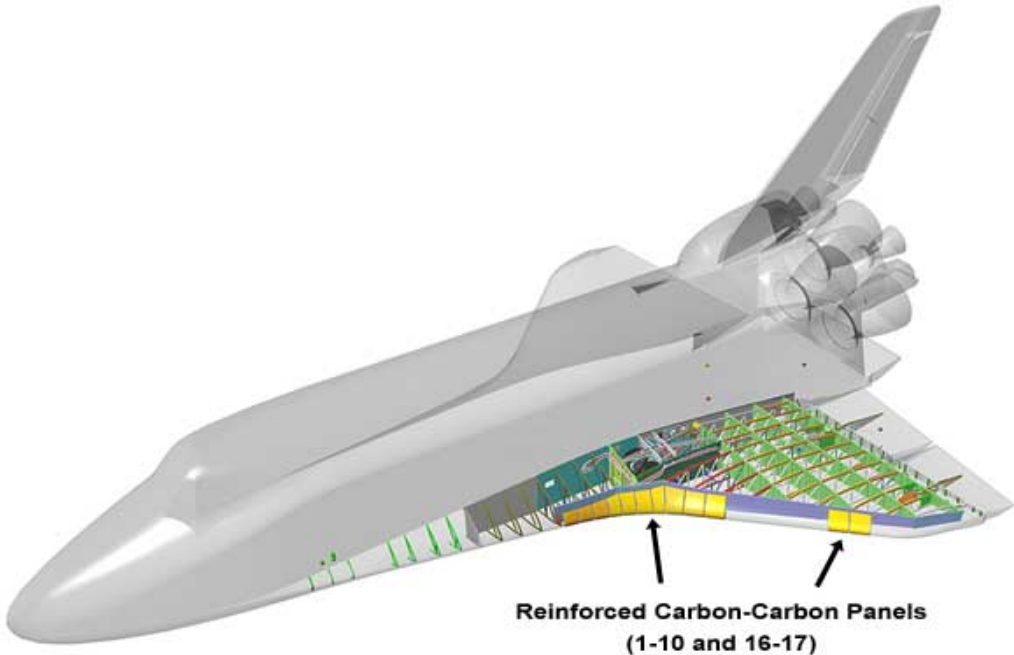
STS-107
28 JAN 2003
21:49 Z

Visible Camera

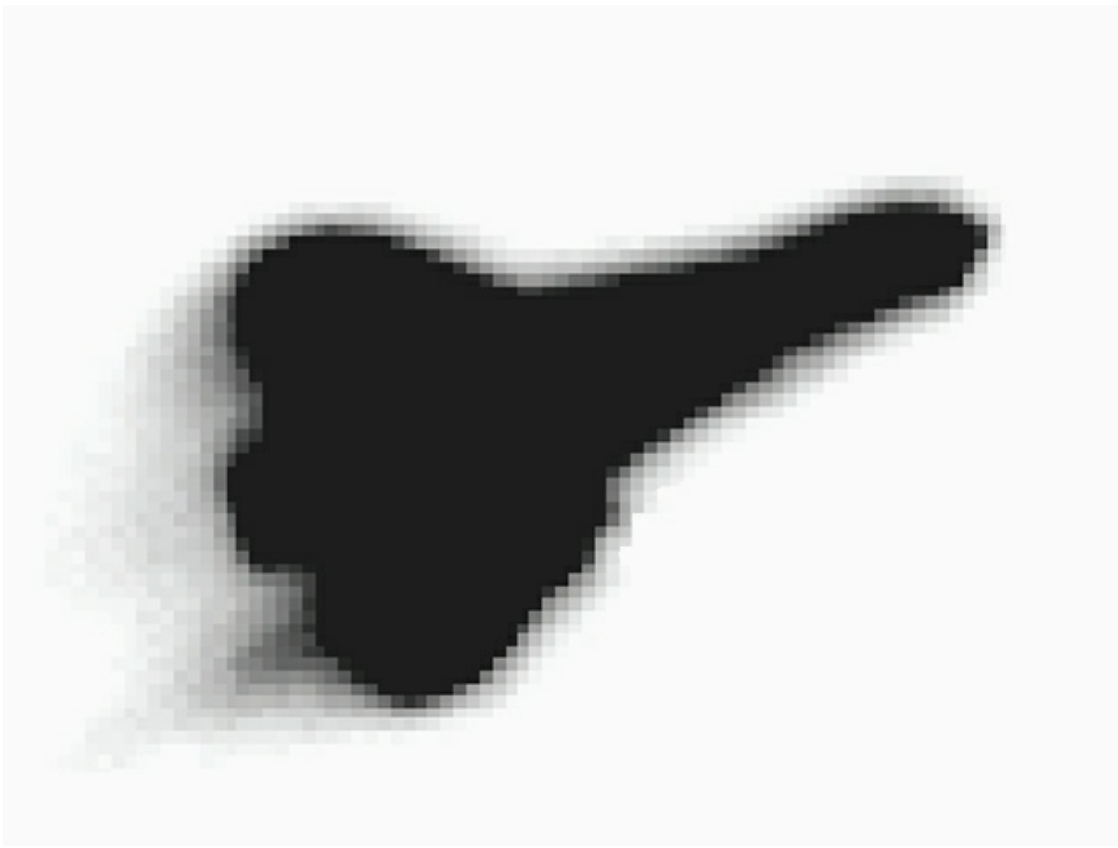


AMOS
AIR FORCE MAUI OPTICAL & SUPERCOMPUTING SITE

Columbia in space imaged by the Pentagon's telescope on Maui



**Reinforced Carbon-Carbon Panels
(1-10 and 16-17)**



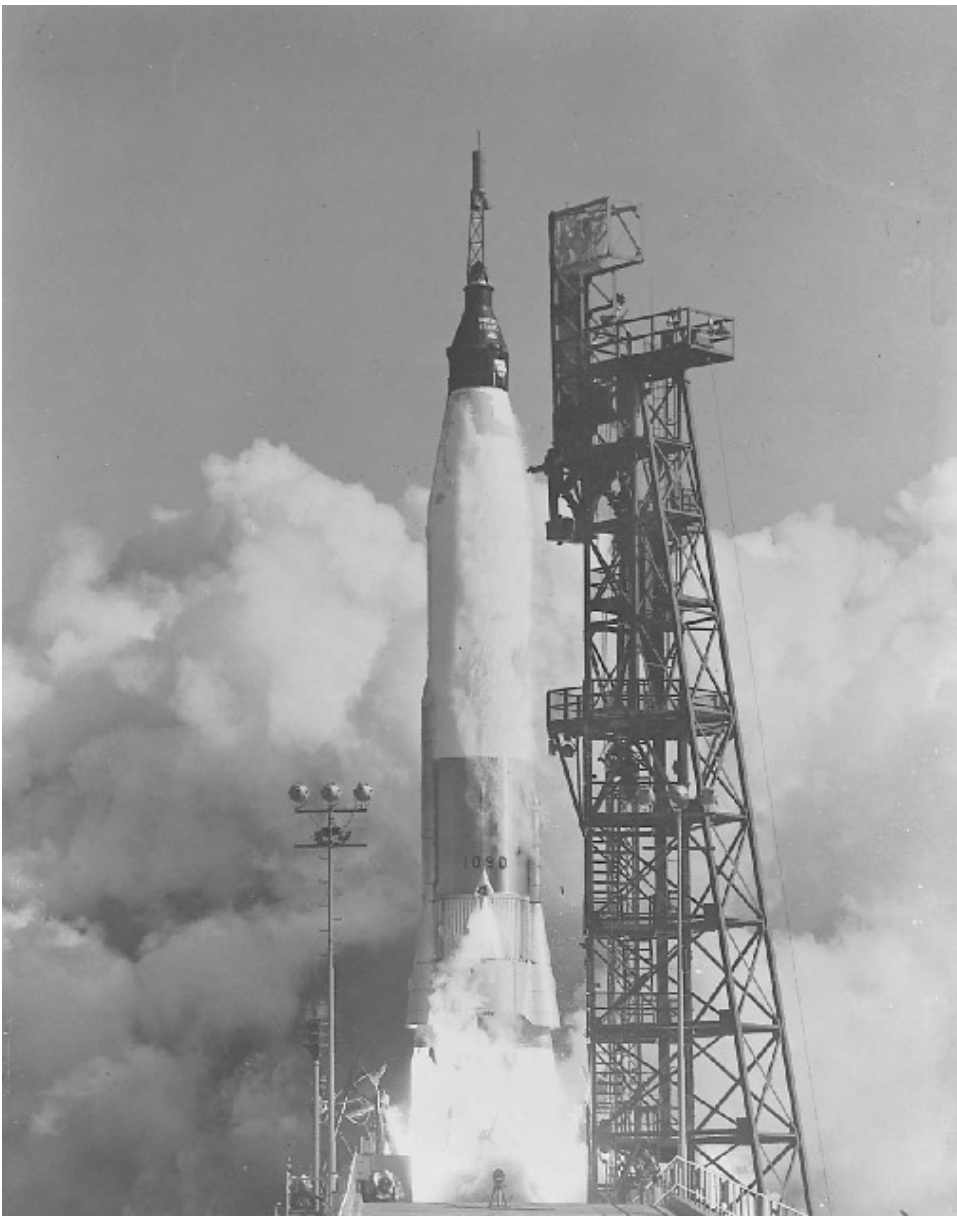
STS-107 photographed during reentry, just before the accident



Yuriy Gagarin



Vostok spaceship



John Glenn launches to orbit

February 1962



NASA Dryden Flight Research Center Photo Collection
<http://www.dfrc.nasa.gov/gallery/photo/index.html>
NASA Photo: EC88-0180-1 Date: early 1960s Photo by: NASA photo

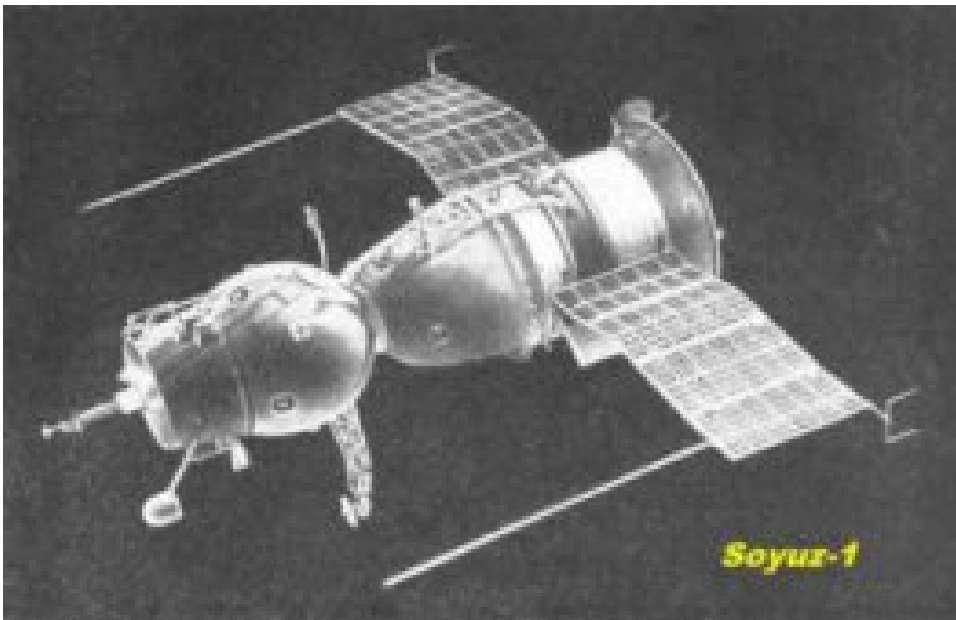
X-15 #2 just after launch



NASA Dryden Flight Research Center Photo Collection
<http://www.dfrc.nasa.gov/gallery/photo/index.html>
NASA Photo: E-4942 Date: 1959 Photo by: NASA photo

X-15 launch from B-52 mothership

The X-15 suborbital spaceplane



Soyuz-1, April 1967: Vladimir Komarov killed in crash landing.



Apollo 12 launch, November 1969



Apollo 12 lightning strike

32 seconds after launch, all power out for 10s

Reached orbit safely 10 minutes later

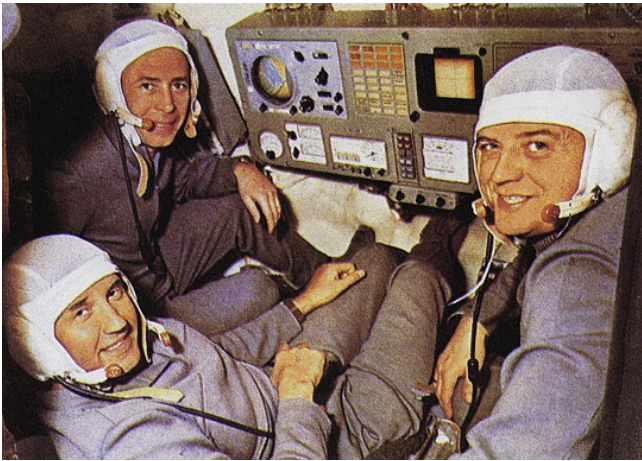


Apr 1970

Apollo 13 service module at end of mission



DOS-1 (Salyut)



Soyuz-11 crew



Soyuz rocket like that in Apr 1975 accident



Challenger mission 51-L





Mir space station



Mir space station: damage to Spektr module