



1
00:00:03,266 --> 00:00:06,796

\h Music

2
00:00:06,796 --> 00:00:11,312

\h Atlantis lifted off on time into a clear blue Florida sky,

3
00:00:11,312 --> 00:00:16,016

\h carrying the seven member crew on mission STS-117.

4
00:00:16,016 --> 00:00:20,953

\h With the June 8 launch, Commander Rick Sturckow, Pilot Lee Archambault,

5
00:00:20,953 --> 00:00:25,062

\h Mission Specialists James Reilly, Steven Swanson, Patrick Forrester, John

6
00:00:25,062 --> 00:00:30,328

\h "Danny" Olivas, and Clayton Anderson were off to carry out the next phase

7
00:00:30,328 --> 00:00:33,905

\h of construction on the International Space Station.

8
00:00:33,905 --> 00:00:38,405

\h Their mission had been delayed by several months after hail at the launch pad

9
00:00:38,405 --> 00:00:42,905

\h damaged the external tank, requiring time-consuming repairs inside

10
00:00:42,905 --> 00:00:45,171

\h the Vehicle Assembly Building.

11
00:00:45,171 --> 00:00:49,687

\h Once Atlantis and crew reached the orbiting outpost, the astronauts installed

12
00:00:49,687 --> 00:00:53,218

\h the Starboard 3 and 4 truss segment with its solar arrays.

13
00:00:53,218 --> 00:00:59,266

\h The installation and activation took four spacewalks, bringing the additional

14

00:00:59,266 --> 00:01:01,828

\h power supply to the station online.

15

00:01:01,828 --> 00:01:08,000

\h During the first spacewalk, Jim Reilly and John Olivas connected power, data

16

00:01:08,000 --> 00:01:12,608

\h and cooling cables, released launch restraints and deployed the four solar array

17

00:01:12,608 --> 00:01:15,578

\h blanket boxes on the S4 truss.

18

00:01:15,578 --> 00:01:20,078

\h Next up, spacewalkers Patrick Forrester and Steven Swanson prepared the

19

00:01:20,078 --> 00:01:25,625

\h Solar Alpha Rotary Joint between the S3 and S4 Truss segments for rotation.

20

00:01:25,625 --> 00:01:29,953

\h From inside, the crew also began the retraction of the solar array blanket

21

00:01:29,953 --> 00:01:32,155

\h atop the P6 truss.

22

00:01:32,155 --> 00:01:36,125

\h Reilly and Olivas conducted the third spacewalk.

23

00:01:36,125 --> 00:01:40,203

\h Supported by the shuttle robot arm, Olivas repaired a protruding

24

00:01:40,203 --> 00:01:44,875

\h piece of thermal blanket on Atlantis' left orbital maneuvering system pod

25

00:01:44,875 --> 00:01:48,468

\h while Reilly installed a hydrogen vent valve in the forward section

26

00:01:48,468 --> 00:01:50,375

\h of the Destiny laboratory.

27

00:01:50,375 --> 00:01:54,421

\h The two moved to the top of the P6 Truss to assist in completing

28

00:01:54,421 --> 00:01:57,546

\h the retraction starboard side solar array wing.

29

00:01:57,546 --> 00:02:01,250

\h Onboard the station, the Russian crew members and ground controllers worked

30

00:02:01,250 --> 00:02:05,328

\h to troubleshoot computer problems that were resolved by the end of the mission.

31

00:02:05,328 --> 00:02:09,233

\h Forrester and Swanson completed the fourth and final spacewalk of the mission,

32

00:02:09,233 --> 00:02:12,968

\h wrapping up all the planned tasks and finishing some jobs that

33

00:02:12,968 --> 00:02:16,266

\h will reduce the workload for future spacewalkers.

34

00:02:16,266 --> 00:02:20,812

\h Along with supplies, Atlantis also delivered Clayton Anderson, who assumed the

35

00:02:20,812 --> 00:02:24,687

\h role of Expedition 15/16 Flight Engineer.

36

00:02:24,687 --> 00:02:29,312

\h He replaced astronaut Sunita Williams, who arrived at the station in December

37

00:02:29,312 --> 00:02:34,718

\h aboard Discovery during mission STS-116 giving her the record for a long

38

00:02:34,718 --> 00:02:37,858

\h duration single spaceflight for a woman.

39

00:02:37,858 --> 00:02:42,266

\h With their work complete, Atlantis and crew had to extend their time in space by

40

00:02:42,266 --> 00:02:46,437

\h another day when bad weather in Florida prevented landing.

41

00:02:46,437 --> 00:02:51,500

\h The next day provided no weather relief, so the crew ended its 5.8-million-mile

42

00:02:51,500 --> 00:02:54,703

\h mission at Edwards Air Force Base in California.