



1
00:00:04,630 --> 00:00:02,550
servicing mission 4's goal was to bring

2
00:00:07,510 --> 00:00:04,640
hubble's scientific capability to its

3
00:00:09,270 --> 00:00:07,520
peak performance but safety concerns

4
00:00:12,390 --> 00:00:09,280
after the tragic loss of the space

5
00:00:14,230 --> 00:00:12,400
shuttle columbia and its crew in 2003

6
00:00:16,150 --> 00:00:14,240
canceled the mission

7
00:00:18,790 --> 00:00:16,160
after two years of safety review and

8
00:00:21,349 --> 00:00:18,800
study nasa administrator michael griffin

9
00:00:23,910 --> 00:00:21,359
had an exciting announcement we are

10
00:00:25,509 --> 00:00:23,920
going to add a shuttle servicing mission

11
00:00:27,750 --> 00:00:25,519
to the hubble space telescope to the

12
00:00:31,269 --> 00:00:27,760
shuttle's manifest to be flown before it

13
00:00:35,190 --> 00:00:33,190

finally the space shuttle atlantis

14

00:00:36,630 --> 00:00:35,200

launched and hubble's final servicing

15

00:00:38,549 --> 00:00:36,640

mission began

16

00:00:40,389 --> 00:00:38,559

astronauts installed two new science

17

00:00:42,709 --> 00:00:40,399

instruments brought two others back to

18

00:00:44,709 --> 00:00:42,719

life replaced gyroscopes and batteries

19

00:00:46,549 --> 00:00:44,719

installed new insulation and added a

20

00:00:48,389 --> 00:00:46,559

soft capture mechanism

21

00:00:50,310 --> 00:00:48,399

servicing mission 4 left hubble

22

00:00:52,869 --> 00:00:50,320

scientifically more powerful than ever

23

00:00:54,709 --> 00:00:52,879

before today hubble observations

24

00:00:56,310 --> 00:00:54,719

continue to change our understanding of

25

00:00:58,549 --> 00:00:56,320

the universe and its journey of

