



1
00:00:10,230 --> 00:00:02,710
hubble space telescope houston with a

2
00:00:14,709 --> 00:00:12,310
the bottom of hubble coming into view

3
00:00:18,710 --> 00:00:14,719
through the remote manipulator systems

4
00:00:20,630 --> 00:00:18,720
end effector camera this same view

5
00:00:22,150 --> 00:00:20,640
seen through one of the closed circuit

6
00:00:23,750 --> 00:00:22,160
televisions

7
00:00:27,029 --> 00:00:23,760
up on the flight deck

8
00:00:33,190 --> 00:00:29,029
commander scott altman

9
00:00:35,830 --> 00:00:34,790
atlantis

10
00:00:38,790 --> 00:00:35,840
within

11
00:00:40,310 --> 00:00:38,800
35 feet or so of the

12
00:00:44,630 --> 00:00:40,320
telescope

13
00:00:47,029 --> 00:00:44,640

and at that point megan macarthur will

14

00:00:48,869 --> 00:00:47,039

maneuver the robotic arm over the

15

00:00:50,470 --> 00:00:48,879

grapple pin

16

00:00:52,869 --> 00:00:50,480

to secure

17

00:01:06,230 --> 00:00:52,879

hubble to the shuttle's

18

00:01:11,429 --> 00:01:09,270

the equipment section coming into view

19

00:01:13,590 --> 00:01:11,439

with the aft shroud of the telescope

20

00:01:14,630 --> 00:01:13,600

behind those doors are the rate sensor

21

00:01:17,910 --> 00:01:14,640

units

22

00:01:18,710 --> 00:01:17,920

essentially the gyroscopes that control

23

00:01:20,630 --> 00:01:18,720

the

24

00:01:22,469 --> 00:01:20,640

telescope's

25

00:01:26,230 --> 00:01:22,479

attitude

26
00:01:28,149 --> 00:01:26,240
the white area the wide field planetary

27
00:01:31,109 --> 00:01:28,159
camera 2

28
00:01:33,510 --> 00:01:31,119
location that camera will be swapped on

29
00:01:35,190 --> 00:01:33,520
the first spacewalk of the mission

30
00:01:38,830 --> 00:01:35,200
replaced with a new

31
00:01:44,389 --> 00:01:41,670
3. and just above that coming into view

32
00:01:50,069 --> 00:01:44,399
the forward shell of the telescope

33
00:02:01,910 --> 00:01:52,710
provide all of the electronics packages

34
00:02:01,920 --> 00:02:06,789
and the grapple fixture now in view

35
00:02:11,830 --> 00:02:09,190
mega macarthur now

36
00:02:14,550 --> 00:02:11,840
repositioning the shuttle's robotic arm

37
00:02:17,430 --> 00:02:14,560
to align with the grapple fixture on the

38
00:02:19,270 --> 00:02:17,440

telescope space shuttle atlantis all of

39

00:03:08,070 --> 00:02:19,280

its thruster jets have been inhibited

40

00:03:12,630 --> 00:03:10,869

and megan macarthur moving in for the

41

00:03:16,070 --> 00:03:12,640

final

42

00:03:19,830 --> 00:03:16,080

a few feet for grapple of hubble for the

43

00:04:31,270 --> 00:03:19,840

first time since its deploy

44

00:04:35,670 --> 00:04:32,870

houston atlantis

45

00:04:38,790 --> 00:04:35,680

hubble has arrived on board atlantis

46

00:04:43,510 --> 00:04:41,350

the exterior of hubble an old man of 19