



1
00:00:04,160 --> 00:00:07,749
we're now one minute from undocking

2
00:00:11,669 --> 00:00:09,270
atlantis and the international space

3
00:00:13,589 --> 00:00:11,679
station will be 222 miles above the

4
00:00:15,430 --> 00:00:13,599
indian ocean

5
00:00:16,710 --> 00:00:15,440
just to the southwest of australia at

6
00:00:32,389 --> 00:00:16,720
the point that they will bid farewell to

7
00:00:32,399 --> 00:00:55,430
30 seconds

8
00:00:55,440 --> 00:01:07,030
ten seconds

9
00:01:10,310 --> 00:01:09,429
undocking confirmed at 10 22 a.m central

10
00:01:19,030 --> 00:01:10,320
time

11
00:01:21,910 --> 00:01:20,789
once again space shuttle atlantis has

12
00:01:24,390 --> 00:01:21,920
officially undocked from the

13
00:01:27,510 --> 00:01:24,400

international space station at 10 22 a.m

14

00:01:28,870 --> 00:01:27,520

central time the two vehicles 222 miles

15

00:01:31,350 --> 00:01:28,880

above the indian ocean just to the

16

00:01:33,109 --> 00:01:31,360

southwest of australia

17

00:01:34,469 --> 00:01:33,119

atlanta is beginning the process of

18

00:01:44,069 --> 00:01:34,479

slowly backing away from the

19

00:01:47,590 --> 00:01:45,830

this is still sequential video from

20

00:01:49,270 --> 00:01:47,600

inside the orbiter docking system ring

21

00:01:55,590 --> 00:01:49,280

looking back up at pressurized mating

22

00:02:00,149 --> 00:01:57,510

atlanta is now bidding farewell to the

23

00:02:02,389 --> 00:02:00,159

international space station this shuttle

24

00:02:03,910 --> 00:02:02,399

has served as an important

25

00:02:05,510 --> 00:02:03,920

tool in the construction and the

26
00:02:07,190 --> 00:02:05,520
assembly sequence of the international

27
00:02:09,029 --> 00:02:07,200
space station atlantis

28
00:02:11,430 --> 00:02:09,039
delivered the us destiny laboratory back

29
00:02:12,869 --> 00:02:11,440
in 2001 also the quest airlock in that

30
00:02:14,710 --> 00:02:12,879
same year

31
00:02:16,309 --> 00:02:14,720
it has delivered several of the trust

32
00:02:18,710 --> 00:02:16,319
segments of the station

33
00:02:20,470 --> 00:02:18,720
the columbus laboratory

34
00:02:22,229 --> 00:02:20,480
and of course the ross fed module the

35
00:02:41,190 --> 00:02:22,239
brand new piece that it delivered on

36
00:02:46,390 --> 00:02:42,869
atlanta is now 15 feet away from the

37
00:02:48,309 --> 00:02:46,400
station slowly backing away

38
00:02:49,750 --> 00:02:48,319

atlantis station is now in attitude

39

00:02:51,430 --> 00:02:49,760

control

40

00:02:53,110 --> 00:02:51,440

i gotta tell you you guys are consummate

41

00:02:55,110 --> 00:02:53,120

professionals with a great sense of

42

00:02:56,630 --> 00:02:55,120

humor we were so glad to see you love

43

00:02:59,509 --> 00:02:56,640

working with you

44

00:03:02,470 --> 00:02:59,519

see you soon brother and stay safe

45

00:03:30,710 --> 00:03:02,480

happy all tj and uh same comments right

46

00:03:34,229 --> 00:03:32,869

now 22 feet in between

47

00:03:35,990 --> 00:03:34,239

space shuttle atlantis and the

48

00:03:38,550 --> 00:03:36,000

international space station the shuttle

49

00:03:39,910 --> 00:03:38,560

slowly backing away at a very slow rate

50

00:03:41,830 --> 00:03:39,920

this will increase over the next few

51
00:03:43,589 --> 00:03:41,840
seconds

52
00:03:45,190 --> 00:03:43,599
atlantis's jets will be armed and will

53
00:03:47,430 --> 00:03:45,200
begin the process of backing the shuttle

54
00:04:35,110 --> 00:03:47,440
away to a distance of about 400 to 600

55
00:04:38,150 --> 00:04:36,950
atlanta is now 35 feet away from the

56
00:04:39,909 --> 00:04:38,160
station you're getting a good view of

57
00:04:41,749 --> 00:04:39,919
pressurized mating adapter number two

58
00:04:43,189 --> 00:04:41,759
there that is the center

59
00:04:45,030 --> 00:04:43,199
dark section there on the end of the

60
00:04:47,189 --> 00:04:45,040
harmony node

61
00:04:48,950 --> 00:04:47,199
to the left and the right

62
00:04:50,870 --> 00:04:48,960
are columbus

63
00:04:52,870 --> 00:04:50,880

which atlantis brought up

64

00:05:03,189 --> 00:04:52,880

back in 2008 as well as the kibo

65

00:05:08,390 --> 00:05:05,270

a few minutes ago you heard

66

00:05:10,230 --> 00:05:08,400

expedition 23 flight engineer tj creamer

67

00:05:12,629 --> 00:05:10,240

wishing the crew of atlantis uh fond

68

00:05:14,950 --> 00:05:12,639

farewell he was uh

69

00:05:16,950 --> 00:05:14,960

following not far behind the crew in his

70

00:05:18,870 --> 00:05:16,960

journey back to earth

71

00:05:21,110 --> 00:05:18,880

he and oleg kotov and soichino gucci

72

00:05:22,950 --> 00:05:21,120

will say farewell to the station as well

73

00:05:43,590 --> 00:05:22,960

and come back home aboard their soyuz

74

00:05:47,029 --> 00:05:45,670

distance of atlantis now 45 feet away

75

00:05:48,550 --> 00:05:47,039

from the station

76

00:06:10,870 --> 00:05:48,560

the rate's still about a tenth of a foot

77

00:06:13,590 --> 00:06:11,990

once again this is a graphic

78

00:06:15,350 --> 00:06:13,600

representation of the current position

79

00:06:18,469 --> 00:06:15,360

of atlantis as it

80

00:06:21,270 --> 00:06:18,479

backs away from the station complex

81

00:06:24,629 --> 00:06:21,280

that green cone is what atlantis is

82

00:06:25,990 --> 00:06:24,639

flying exactly down the middle of

83

00:06:28,710 --> 00:06:26,000

in this view you will also be able to

84

00:06:31,830 --> 00:06:28,720

see the jets firing you will see some

85

00:06:32,710 --> 00:06:31,840

yellow dots plume out from

86

00:06:33,590 --> 00:06:32,720

that

87

00:06:38,230 --> 00:06:33,600

shuttle

88

00:06:42,390 --> 00:06:40,070

atlantis now 55 feet away from the

89

00:06:44,390 --> 00:06:42,400
station

90

00:06:53,110 --> 00:06:44,400
the rate is increasing a bit now

91

00:06:56,150 --> 00:06:54,629
the propulsion officer here in mission

92

00:06:58,070 --> 00:06:56,160
control is reporting that all of the

93

00:06:59,909 --> 00:06:58,080
reaction control system jets have been

94

00:07:01,749 --> 00:06:59,919
selected

95

00:07:03,749 --> 00:07:01,759
this is what the crew will not use to