



1
00:00:03,909 --> 00:00:01,829
so on behalf of the

2
00:00:05,590 --> 00:00:03,919
greatest team in the world uh good luck

3
00:00:07,590 --> 00:00:05,600
to you and your crew on the final flight

4
00:00:10,230 --> 00:00:07,600
of this true american icon

5
00:00:11,509 --> 00:00:10,240
and so for the final time fergie

6
00:00:13,749 --> 00:00:11,519
doug

7
00:00:15,829 --> 00:00:13,759
standing wrecks good luck godspeed and

8
00:00:17,830 --> 00:00:15,839
have a little fun up there let's light

9
00:00:19,670 --> 00:00:17,840
this fire one more time mike and witness

10
00:00:21,990 --> 00:00:19,680
this great nation at its best the crew

11
00:00:24,070 --> 00:00:22,000
of atlantis is ready for launch

12
00:00:25,070 --> 00:00:24,080
the last mission of nasa's space shuttle

13
00:00:29,269 --> 00:00:25,080

era

14

00:00:31,189 --> 00:00:29,279

sts-135 began on july 8 2011 with a

15

00:00:33,430 --> 00:00:31,199

roaring launch by shuttle atlantis

16

00:00:35,590 --> 00:00:33,440

through low layer clouds above nasa's

17

00:00:37,510 --> 00:00:35,600

kennedy space center in florida

18

00:00:39,270 --> 00:00:37,520

commander chris ferguson led a team of

19

00:00:40,630 --> 00:00:39,280

four astronauts to the international

20

00:00:42,709 --> 00:00:40,640

space station

21

00:00:44,869 --> 00:00:42,719

pilot doug hurley and mission specialist

22

00:00:47,750 --> 00:00:44,879

sandy magnus and rex walheim will all

23

00:00:50,069 --> 00:00:47,760

have special roles during the flight

24

00:00:52,069 --> 00:00:50,079

their mission was a resupply flight

25

00:00:54,069 --> 00:00:52,079

aimed at bringing more than four tons of

26
00:00:55,990 --> 00:00:54,079
supplies and equipment to the station

27
00:01:00,150 --> 00:00:56,000
that will sustain operations aboard the

28
00:01:02,229 --> 00:01:00,160
orbiting laboratory through 2012.

29
00:01:04,310 --> 00:01:02,239
once docked to the station the shuttle

30
00:01:07,109 --> 00:01:04,320
and astronauts used the robotic arm on

31
00:01:09,270 --> 00:01:07,119
the station to lift the raphaelo module

32
00:01:11,109 --> 00:01:09,280
stuffed with supplies out of atlantis

33
00:01:12,710 --> 00:01:11,119
and connect it to one of the ports on

34
00:01:14,630 --> 00:01:12,720
the station

35
00:01:17,429 --> 00:01:14,640
then the crews got to work moving the

36
00:01:18,950 --> 00:01:17,439
gear out of rafaello and moving used

37
00:01:21,830 --> 00:01:18,960
equipment from the station into the

38
00:01:25,190 --> 00:01:21,840

module for return to earth

39

00:01:27,190 --> 00:01:25,200

sts-135 piloted doug hurley there

40

00:01:29,910 --> 00:01:27,200

along with sandy magnus moving a fairly

41

00:01:31,910 --> 00:01:29,920

large size heat exchanger

42

00:01:33,990 --> 00:01:31,920

for magnus the flight was a return to a

43

00:01:35,990 --> 00:01:34,000

place she called home for several months

44

00:01:38,310 --> 00:01:36,000

during the international space station's

45

00:01:40,390 --> 00:01:38,320

expedition 18.

46

00:01:43,190 --> 00:01:40,400

for all you guys who worked expedition

47

00:01:45,910 --> 00:01:43,200

18 i'd like to announce the return of

48

00:01:50,149 --> 00:01:47,590

the atlanta's astronauts work with the

49

00:01:52,230 --> 00:01:50,159

space station's team on a spacewalk to

50

00:01:55,590 --> 00:01:52,240

place a faulty ammonia pump inside the

51
00:01:58,230 --> 00:01:55,600
shuttle so it could be studied on earth

52
00:02:00,550 --> 00:01:58,240
guiding station spacewalkers mike fossum

53
00:02:02,310 --> 00:02:00,560
and ron garan from inside the station

54
00:02:04,630 --> 00:02:02,320
wallheim steered the space station's

55
00:02:06,870 --> 00:02:04,640
robotic arm

56
00:02:08,869 --> 00:02:06,880
the spacewalk also called on fossum and

57
00:02:10,469 --> 00:02:08,879
garen to place some thermal covers to

58
00:02:13,670 --> 00:02:10,479
protect a critical area from the

59
00:02:15,910 --> 00:02:13,680
temperature changes seen in space

60
00:02:18,470 --> 00:02:15,920
they also set up an experiment that will

61
00:02:21,110 --> 00:02:18,480
test robotic refueling of satellites in

62
00:02:23,510 --> 00:02:21,120
space the spectacle of yesterday's uh

63
00:02:26,150 --> 00:02:23,520

six hour 31 minute spacewalk by mike

64

00:02:27,910 --> 00:02:26,160

fossum and ron garan has morphed into

65

00:02:30,309 --> 00:02:27,920

what essentially is a blue collar day

66

00:02:31,910 --> 00:02:30,319

for the 10 crew members on board as we

67

00:02:33,589 --> 00:02:31,920

move into the heart of the mission and

68

00:02:36,070 --> 00:02:33,599

what this flight is really all about and

69

00:02:39,670 --> 00:02:36,080

that is namely the transfer of almost a

70

00:02:42,949 --> 00:02:39,680

year's worth of supplies from atlantis's

71

00:02:44,869 --> 00:02:42,959

cargo module the picture guys

72

00:02:47,350 --> 00:02:44,879

you look like you're in a studio maybe

73

00:02:49,430 --> 00:02:47,360

in omaha nebraska or something the shot

74

00:02:50,869 --> 00:02:49,440

is so clear is this a hoax are you

75

00:02:52,790 --> 00:02:50,879

really in space still

76

00:02:53,910 --> 00:02:52,800

see the hair

77

00:03:01,350 --> 00:02:53,920

i don't know we're going to have to do

78

00:03:05,589 --> 00:03:03,430

as the mission progressed the astronauts

79

00:03:08,070 --> 00:03:05,599

took time on several occasions to mark

80

00:03:10,470 --> 00:03:08,080

the achievements of the past and with

81

00:03:12,229 --> 00:03:10,480

one left a challenge for the spacecraft

82

00:03:14,630 --> 00:03:12,239

of the future

83

00:03:17,350 --> 00:03:14,640

this flag represents not just a symbol

84

00:03:18,869 --> 00:03:17,360

of our national pride and honor

85

00:03:21,190 --> 00:03:18,879

but in this particular case it

86

00:03:23,910 --> 00:03:21,200

represents a goal

87

00:03:27,190 --> 00:03:23,920

this flag also will be flown prominently

88

00:03:29,030 --> 00:03:27,200

here by the forward hatch of no two

89

00:03:31,190 --> 00:03:29,040
to be returned

90

00:03:33,430 --> 00:03:31,200
to earth once again

91

00:03:37,030 --> 00:03:33,440
by an astronaut that launches on a us

92

00:03:39,110 --> 00:03:37,040
vehicle hopefully in just a few years

93

00:03:41,990 --> 00:03:39,120
the shuttle left the station after about

94

00:03:43,910 --> 00:03:42,000
nine days of docked operations there and

95

00:03:48,710 --> 00:03:43,920
after both crews completed their

96

00:03:53,430 --> 00:03:50,550
atlantis departing the international

97

00:03:55,350 --> 00:03:53,440
space station for the last time

98

00:03:58,630 --> 00:03:55,360
thank you for your 12 doc missions to

99

00:04:01,030 --> 00:03:58,640
the iss and for capping off 37 space

100

00:04:03,830 --> 00:04:01,040
shuttle missions to construct

101

00:04:06,309 --> 00:04:03,840

orbiting research facility

102

00:04:07,670 --> 00:04:06,319

as the iss now energy era of utilization

103

00:04:10,550 --> 00:04:07,680

will never forget the role the space

104

00:04:12,789 --> 00:04:10,560

shuttle played in its creation

105

00:04:15,190 --> 00:04:12,799

flying on its own through space for one

106

00:04:19,990 --> 00:04:15,200

more night the astronauts shared some of

107

00:04:23,670 --> 00:04:21,270

it's kind of interesting to be here on

108

00:04:24,790 --> 00:04:23,680

the final night of a shell mission don't

109

00:04:27,430 --> 00:04:24,800

quite know what to think we're just

110

00:04:29,749 --> 00:04:27,440

trying to take it all in

111

00:04:31,909 --> 00:04:29,759

atlantis descended back to earth on july

112

00:04:33,749 --> 00:04:31,919

21 2011

113

00:04:36,070 --> 00:04:33,759

touching down on the shuttle runway at

114

00:04:37,830 --> 00:04:36,080

kennedy just a few miles from where it

115

00:04:39,430 --> 00:04:37,840

launched on the final mission of the

116

00:04:41,189 --> 00:04:39,440

space shuttle program

117

00:04:42,870 --> 00:04:41,199

a ship like no other its place in

118

00:04:45,189 --> 00:04:42,880

history secured

119

00:04:46,550 --> 00:04:45,199

the space shuttle pulls into port for

120

00:04:47,990 --> 00:04:46,560

the last time

121

00:04:50,550 --> 00:04:48,000

its voyage

122

00:04:52,310 --> 00:04:50,560

at an end after uh serving the world for

123

00:04:54,629 --> 00:04:52,320

over 30 years the space shuttle's earned

124

00:04:58,150 --> 00:04:54,639

its place in history and come to a final

125

00:05:00,469 --> 00:04:58,160

stop although we got to take the ride um

126

00:05:02,230 --> 00:05:00,479

we sure hope that everybody

127

00:05:05,030 --> 00:05:02,240

uh who has ever worked

128

00:05:07,110 --> 00:05:05,040

or touched or looked at or envied or

129

00:05:08,870 --> 00:05:07,120

admired a space shuttle