



1
00:01:06,630 --> 00:01:00,180
and rain Twitter Roger sir we have no

2
00:01:07,860 --> 00:01:06,640
constraints along and gently mmt is

3
00:01:12,390 --> 00:01:07,870
working the lazy to get cleared to

4
00:01:13,890 --> 00:01:12,400
launch after that and Atlantis looks

5
00:01:15,680 --> 00:01:13,900
like everything's come together here

6
00:01:18,480 --> 00:01:15,690
looks like a good morning to launch so

7
00:01:19,800 --> 00:01:18,490
my Kuna team have a good mother but a

8
00:01:28,020 --> 00:01:19,810
great mission and we'll see you back

9
00:01:35,520 --> 00:01:28,030
here and we can I ask thank you oh my

10
00:01:55,830 --> 00:01:35,530
god people father look here an MPD

11
00:02:00,200 --> 00:01:58,679
and the orbiter access arm and is now

12
00:02:03,300 --> 00:02:00,210
being retracted away from the vehicle

13
00:02:05,700 --> 00:02:03,310

this is the walkway used by the crew to

14

00:02:06,990 --> 00:02:05,710

gain entry into and out of the vehicle

15

00:02:29,750 --> 00:02:07,000

and it can be returned to position

16

00:02:51,760 --> 00:02:31,399

and the three main engines are being

17

00:02:55,960 --> 00:02:54,280

t-minus three minutes and Counting and

18

00:03:00,070 --> 00:02:55,970

all is going well for today's launch

19

00:03:02,530 --> 00:03:00,080

this mission carries a crew of six

20

00:03:09,070 --> 00:03:02,540

five of those days doctors in near space

21

00:03:10,960 --> 00:03:09,080

station a protest conductor has

22

00:03:13,890 --> 00:03:10,970

requested that pilot Brent jet clear the

23

00:03:16,270 --> 00:03:13,900

caution and warning memory system

24

00:03:44,560 --> 00:03:16,280

everything looks good and we're cleared

25

00:03:47,290 --> 00:03:44,570

for launch today hey we have a go for

26
00:03:52,330 --> 00:03:47,300
main engine start main engines up and

27
00:03:54,280 --> 00:03:52,340
running three two one booster ignition

28
00:03:56,620 --> 00:03:54,290
and liftoff of the space shuttle

29
00:03:57,140 --> 00:03:56,630
Atlantis on a 10-day mission for dr.

30
00:04:00,210 --> 00:03:57,150
Rush's

31
00:04:08,040 --> 00:04:01,950
Houston now controlling the flight of

32
00:04:09,540 --> 00:04:08,050
Atlantis Atlantis into the world to

33
00:04:11,160 --> 00:04:09,550
place the shuttle and I headed down the

34
00:04:23,360 --> 00:04:11,170
wings level position for the eight and a

35
00:04:27,930 --> 00:04:26,279
thirty seconds into the flight Atlantis

36
00:04:29,760 --> 00:04:27,940
is free liquid fuel main engines now

37
00:04:31,110 --> 00:04:29,770
throttling back in a three-step fashion

38
00:04:33,300 --> 00:04:31,120

to sixty-seven percent of rated

39

00:04:35,129 --> 00:04:33,310

performance that will dampen the stress

40

00:04:52,500 --> 00:04:35,139

on the shuttles Aero surfaces as it

41

00:04:56,380 --> 00:04:54,610

one minute into the flight the main

42

00:04:58,150 --> 00:04:56,390

engines now beginning to rev up the full

43

00:04:59,950 --> 00:04:58,160

throttle 104 percent of rate of

44

00:05:01,660 --> 00:04:59,960

performance they throttle up call coming

45

00:05:06,780 --> 00:05:01,670

up from spacecraft communicator Kevin

46

00:05:15,430 --> 00:05:13,990

- go at throttle up one minute 20

47

00:05:18,760 --> 00:05:15,440

seconds into the flight Atlanta's

48

00:05:20,380 --> 00:05:18,770

traveling at 1500 miles per hour now ten

49

00:05:23,830 --> 00:05:20,390

miles downrange from the Kennedy Space

50

00:05:25,540 --> 00:05:23,840

Center 13 miles in altitude the shuttles

51
00:05:27,430 --> 00:05:25,550
three main engines three auxiliary power

52
00:05:43,980 --> 00:05:27,440
units three power producing fuel cells

53
00:05:48,550 --> 00:05:46,540
one minute 50 seconds into the flight

54
00:05:51,430 --> 00:05:48,560
standing by for solid rocket booster

55
00:05:53,200 --> 00:05:51,440
shut down in jettison that command to

56
00:05:54,700 --> 00:05:53,210
come from the on-board computers to the

57
00:06:05,500 --> 00:05:54,710
master events controller onboard

58
00:06:09,430 --> 00:06:07,570
booster officer confirms a clean solid

59
00:06:11,110 --> 00:06:09,440
rocket booster separation guidance now

60
00:06:13,510 --> 00:06:11,120
converging on Atlantis's three main

61
00:06:16,060 --> 00:06:13,520
engines as they begin to steer for a

62
00:06:30,370 --> 00:06:16,070
precise keyhole in space for main engine

63
00:06:32,110 --> 00:06:30,380

cutoff - - engine Marone those calls

64

00:06:33,820 --> 00:06:32,120

from spacecraft communicator Kevin

65

00:06:35,710 --> 00:06:33,830

Kregel to Commander Mike Baker aboard

66

00:06:37,450 --> 00:06:35,720

Atlantis indicating that the solid

67

00:06:39,100 --> 00:06:37,460

rocket boosters provided the desired

68

00:06:42,250 --> 00:06:39,110

performance during the first stage of

69

00:06:44,110 --> 00:06:42,260

this morning's ascend to orbit and if

70

00:06:45,730 --> 00:06:44,120

one and if one main engine should fail

71

00:06:48,040 --> 00:06:45,740

Atlantis has enough inertia to make a

72

00:06:50,320 --> 00:06:48,050

transoceanic abort - Marone Spain

73

00:06:52,750 --> 00:06:50,330

however all three main engines continue

74

00:07:23,580 --> 00:06:52,760

to function by the book three minutes

75

00:07:28,620 --> 00:07:25,440

in fact we do have live video at this

76

00:07:33,350 --> 00:07:28,630

time of all six astronauts who'll be

77

00:07:39,210 --> 00:07:36,120

Marsha Ivins mission specialists is

78

00:07:45,700 --> 00:07:39,220

preparing for her fourth flight aboard

79

00:07:51,540 --> 00:07:47,860

and of course our other astronauts

80

00:07:54,850 --> 00:07:51,550

include our commander and pilot

81

00:07:57,930 --> 00:07:54,860

Commander Mike Baker pilot Brent Jett is

82

00:08:04,540 --> 00:08:03,070

mission specialist John Grunsfeld he'll

83

00:08:08,590 --> 00:08:04,550

be making his second flight in this

84

00:08:11,890 --> 00:08:08,600

place today and of course rounding out

85

00:08:14,290 --> 00:08:11,900

the crew of mission specialist jerry

86

00:08:21,749 --> 00:08:14,300

linenger and mission specialist Jeff

87

00:08:24,339 --> 00:08:21,759

Weiss off course mission specialist

88

00:08:28,300 --> 00:08:24,349

Jerry Linenger will be remaining in

89

00:08:29,980 --> 00:08:28,310

space he will be staying for about four

90

00:09:07,540 --> 00:08:29,990

months until Atlantis goes back to get

91

00:09:13,160 --> 00:09:09,860

this is shuttle launch control at

92

00:09:17,139 --> 00:09:13,170

t-minus three hours and holding and we

93

00:09:19,819 --> 00:09:17,149

have our first look of our commander

94

00:09:23,379 --> 00:09:19,829

Michael Baker as he is being suited up

95

00:09:25,790 --> 00:09:23,389

for his fourth flight into space today

96

00:09:27,769 --> 00:09:25,800

pilot Brent jet course giving thumbs-up

97

00:09:34,370 --> 00:09:27,779

he's ready to make his second flight

98

00:09:41,480 --> 00:09:38,330

jerry linenger is going to be going into

99

00:09:43,010 --> 00:09:41,490

space this on his second trip but it

100

00:09:45,470 --> 00:09:43,020

will certainly be as longest he'll be

101
00:09:50,030 --> 00:09:45,480
staying on the MIR Space Station mission

102
00:09:53,480 --> 00:09:50,040
specialist Jeff Weiss off preparing for

103
00:09:57,170 --> 00:09:53,490
his third flight mission specialist John

104
00:10:02,570 --> 00:09:57,180
Grunsfeld making his second flight into

105
00:10:38,980 --> 00:10:02,580
space today and the last member of the

106
00:10:44,900 --> 00:10:41,540
Crewe was being led by commander michael

107
00:10:46,790 --> 00:10:44,910
Baker pilot Brent Chuck mission

108
00:11:33,800 --> 00:10:46,800
specialist Jerry Linenger John Grunsfeld

109
00:12:13,250 --> 00:11:36,440
Mike Baker is being assisted being

110
00:12:19,640 --> 00:12:15,410
mission specialist Marsha Ivins has just

111
00:12:21,680 --> 00:12:19,650
entered the orbiter she is on the

112
00:12:24,050 --> 00:12:21,690
mid-deck where she will take her ride

113
00:12:31,150 --> 00:12:24,060

into space today and she is making final

114

00:12:38,420 --> 00:12:35,870

our pilot Brent jet is going to be the

115

00:12:41,240 --> 00:12:38,430

next end of the vehicle and he'll be

116

00:12:59,170 --> 00:12:41,250

taking his seat next to Commander Mike

117

00:13:04,360 --> 00:13:00,700

and we're back with pictures of our

118

00:13:06,820 --> 00:13:04,370

white room again three of the six

119

00:13:10,150 --> 00:13:06,830

astronauts have been a place to board

120

00:13:12,490 --> 00:13:10,160

the orbiter here we're looking at Jerry

121

00:13:14,560 --> 00:13:12,500

Linenger who will be seated on the

122

00:13:17,380 --> 00:13:14,570

mid-deck with Marsha Ivins he's making

123

00:13:20,620 --> 00:13:17,390

their making final preparations to get

124

00:13:23,470 --> 00:13:20,630

him in and once Marsha is fully

125

00:13:28,000 --> 00:13:23,480

established in her seat and Jerry will

126

00:13:31,840 --> 00:13:28,010

be climbing aboard this again is a view

127

00:13:33,820 --> 00:13:31,850

from the mid-deck astronaut Jerry

128

00:14:07,210 --> 00:13:33,830

Linenger as he is in the process of

129

00:14:15,110 --> 00:14:10,240

in the white room

130

00:14:30,220 --> 00:14:19,790

John Grunsfeld is shaking hands and

131

00:14:40,999 --> 00:14:35,079

and again making voice checks with NASA

132

00:14:44,860 --> 00:14:41,009

test conductor John Guidi ms4 we read