



1
00:00:48,189 --> 00:00:45,400
good evening we begin NASA television

2
00:00:50,009 --> 00:00:48,199
coverage of mission STS 76 here at the

3
00:00:53,290 --> 00:00:50,019
John F Kennedy Space Center in Florida

4
00:00:55,420 --> 00:00:53,300
we're just hours away from NASA's 76

5
00:00:57,970 --> 00:00:55,430
space shuttle launch and the 16th flight

6
00:01:00,310 --> 00:00:57,980
of the orbiter Atlantis there's a crew

7
00:01:02,290 --> 00:01:00,320
of six astronauts getting ready to

8
00:01:05,920 --> 00:01:02,300
launch aboard the shuttle Atlantis this

9
00:01:08,530 --> 00:01:05,930
morning liftoff is planned at 3:13 a.m.

10
00:01:10,210 --> 00:01:08,540
Eastern Time that's the opening of a

11
00:01:14,620 --> 00:01:10,220
7-minute launch window the window

12
00:01:16,180 --> 00:01:14,630
extends until 3:20 a.m. Eastern Time the

13
00:01:18,550 --> 00:01:16,190

weather conditions are very favorable

14

00:01:20,380 --> 00:01:18,560

for a liftoff we've got a 90 percent

15

00:01:28,620 --> 00:01:20,390

chance of having acceptable conditions

16

00:01:30,820 --> 00:01:28,630

for a launch the flight crew is

17

00:01:32,290 --> 00:01:30,830

continuing to get ready over in their

18

00:01:34,930 --> 00:01:32,300

crew quarters at the operations and

19

00:01:36,880 --> 00:01:34,940

check-out building while the launch team

20

00:01:38,649 --> 00:01:36,890

here at KSC in the front room is

21

00:01:41,109 --> 00:01:38,659

preparing the vehicle and monitoring

22

00:01:44,559 --> 00:01:41,119

systems and we do have two crews out of

23

00:01:47,430 --> 00:01:44,569

the pad right now one is in the white

24

00:01:49,660 --> 00:01:47,440

room and inside the vehicle crew module

25

00:01:51,699 --> 00:01:49,670

getting things set up and ready the

26

00:01:55,589 --> 00:01:51,709

other is the final inspection team

27

00:01:59,229 --> 00:01:55,599

making an assessment of the vehicle and

28

00:02:07,149 --> 00:01:59,239

looking at temperatures and assessing

29

00:02:12,960 --> 00:02:09,580

we do have live pictures of the flight

30

00:02:16,270 --> 00:02:12,970

crew cat mission specialist Linda Godwin

31

00:02:28,440 --> 00:02:16,280

she'll be one of the spacewalkers on

32

00:02:34,530 --> 00:02:32,430

and commander or kevin chilton Tilton

33

00:02:38,280 --> 00:02:34,540

will be guiding the shuttle Atlantis to

34

00:02:43,500 --> 00:02:38,290

a smooth docking mission specialist

35

00:02:53,400 --> 00:02:43,510

Shannon lucid getting ready to begin her

36

00:02:58,170 --> 00:02:56,430

and mission specialist rich Clifford

37

00:02:59,940 --> 00:02:58,180

who's also serving as the flight

38

00:03:06,979 --> 00:02:59,950

engineer for the mission and will be

39

00:03:06,989 --> 00:03:13,270

and the crew waving for the camera

40

00:03:18,060 --> 00:03:15,550

like we're ready to go they've been up

41

00:03:20,380 --> 00:03:18,070

since 4:30 p.m.

42

00:04:07,570 --> 00:03:20,390

they'll be getting into the launch and

43

00:04:13,280 --> 00:04:11,360

we're currently get some live coverage

44

00:04:15,350 --> 00:04:13,290

of the final inspection team walking

45

00:04:18,500 --> 00:04:15,360

around on the top of the the mobile

46

00:04:21,440 --> 00:04:18,510

launcher platform just looking at the

47

00:04:24,260 --> 00:04:21,450

aft end of the solid rocket boosters one

48

00:04:27,170 --> 00:04:24,270

of the team members just passed team is

49

00:04:30,680 --> 00:04:27,180

composed of eight members representing

50

00:04:35,570 --> 00:04:30,690

the NASA and contractor team they use a

51
00:04:37,760 --> 00:04:35,580
portable infrared scanner also they take

52
00:04:40,909 --> 00:04:37,770
close-up photo documentation of the

53
00:04:44,740 --> 00:04:40,919
cryogenic surfaces and doing a lot of

54
00:04:47,480 --> 00:04:44,750
data collection to correlate the data

55
00:04:50,420 --> 00:04:47,490
we're standing by to get live coverage

56
00:04:54,800 --> 00:04:50,430
of the STS 76 astronauts as they get

57
00:04:56,720 --> 00:04:54,810
into their launch and entry suits and we

58
00:04:59,090 --> 00:04:56,730
do have coverage we've got commander or

59
00:05:00,130 --> 00:04:59,100
kevin chilton making his third flight

60
00:05:02,330 --> 00:05:00,140
today

61
00:05:05,390 --> 00:05:02,340
just completed the weather briefing with

62
00:05:07,670 --> 00:05:05,400
flight directors in Houston and the

63
00:05:11,090 --> 00:05:07,680

weather coordinators they're going

64

00:05:16,280 --> 00:05:11,100

through the traditional suit up being

65

00:05:20,060 --> 00:05:16,290

assisted with the bulky suit Chilton

66

00:05:22,040 --> 00:05:20,070

will be the third little dock with the

67

00:05:27,800 --> 00:05:22,050

Russian space station the third to do

68

00:05:30,770 --> 00:05:27,810

that got pilot Richard Searfoss making

69

00:05:34,520 --> 00:05:30,780

his second flight he's known as the

70

00:05:36,200 --> 00:05:34,530

rendezvous expert and will be

71

00:05:47,030 --> 00:05:36,210

responsible for the undocking of the MIR

72

00:05:54,260 --> 00:05:49,940

sir Frost will be assisting children at

73

00:06:01,119 --> 00:05:54,270

the flight controls in the crew cabin of

74

00:06:07,359 --> 00:06:05,079

mission specialist Ron Sega he's the

75

00:06:09,699 --> 00:06:07,369

payload commander for this mission

76

00:06:11,529 --> 00:06:09,709

making his second flight he's very

77

00:06:13,629 --> 00:06:11,539

familiar with the United States Russian

78

00:06:15,459 --> 00:06:13,639

cooperative space effort having spent

79

00:06:18,159 --> 00:06:15,469

several months in Russia serving as

80

00:06:20,079 --> 00:06:18,169

NASA's Operations Director at the

81

00:06:32,929 --> 00:06:20,089

Gagarin cosmonaut training center in

82

00:06:38,679 --> 00:06:34,699

across the room the rest of the crew

83

00:06:40,579 --> 00:06:38,689

members are getting assisted with

84

00:06:43,179 --> 00:06:40,589

equipment they'll be taking a board

85

00:06:47,600 --> 00:06:43,189

mission specialist Shannon lucid

86

00:06:50,359 --> 00:06:47,610

she's got flying for the five the fifth

87

00:06:53,659 --> 00:06:50,369

time today it's the first American woman

88

00:06:56,149 --> 00:06:53,669

to be launched aboard the the MIR

89

00:06:59,480 --> 00:06:56,159

station she'll be staying aboard the MIR

90

00:07:01,100 --> 00:06:59,490

for four and a half months as soon as

91

00:07:04,939 --> 00:07:01,110

she arrives on the MIR station she will

92

00:07:06,290 --> 00:07:04,949

become part of that team she'll be

93

00:07:08,600 --> 00:07:06,300

staying on Mir for about a hundred and

94

00:07:12,320 --> 00:07:08,610

forty three days until August conducting

95

00:07:15,049 --> 00:07:12,330

long-duration space research mission

96

00:07:17,059 --> 00:07:15,059

specialist rich Clifford he's also

97

00:07:18,679 --> 00:07:17,069

serving as the flight engineer and will

98

00:07:24,529 --> 00:07:18,689

be one of the crew members to make a

99

00:07:30,079 --> 00:07:24,539

spacewalk spacewalk will occur on flight

100

00:07:32,119 --> 00:07:30,089

day six he's also gonna be responsible

101
00:07:34,489 --> 00:07:32,129
for the space vision system and will be

102
00:07:37,339 --> 00:07:34,499
helping transferal supplies and

103
00:07:38,869 --> 00:07:37,349
equipment over to the MIR station also

104
00:07:41,420 --> 00:07:38,879
he'll be assisting the commander and

105
00:07:43,879 --> 00:07:41,430
pilot with asset and reentry checklists

106
00:07:47,869 --> 00:07:43,889
and in monitoring vehicle systems as the

107
00:07:50,629 --> 00:07:47,879
flight engineer mission specialist Linda

108
00:07:54,619 --> 00:07:50,639
Godwin she's making her third flight

109
00:07:57,109 --> 00:07:54,629
today she's going to join rich Clifford

110
00:07:58,879 --> 00:07:57,119
in the spacewalk on flight day six where

111
00:08:00,439 --> 00:07:58,889
they'll be attaching the four

112
00:08:36,830 --> 00:08:00,449
experiments to the mirrored docking

113
00:08:42,150 --> 00:08:40,230

we've got the STS 76 crewmembers walking

114

00:08:47,670 --> 00:08:42,160
down the hall at the portions in

115

00:08:49,770 --> 00:08:47,680
check-out building crew getting ready

116

00:08:51,390 --> 00:08:49,780
for their nine-day flight mission

117

00:08:54,900 --> 00:08:51,400
specialist Shannon Lucid getting ready

118

00:09:00,020 --> 00:08:54,910
for the first flight day staying in

119

00:09:02,490 --> 00:09:00,030
space for about four and a half months

120

00:09:07,380 --> 00:09:02,500
employees wishing the crew well on their

121

00:09:52,280 --> 00:09:07,390
trip and here we have the crew coming

122

00:09:57,150 --> 00:09:54,269
seventy-six crew is now aboard the

123

00:09:59,069 --> 00:09:57,160
astronaut van Bob Cabana

124

00:10:00,449 --> 00:09:59,079
followed the crew into the van he'll be

125

00:10:03,949 --> 00:10:00,459
getting out at the launch complex 39

126
00:10:07,230 --> 00:10:03,959
area he is going to be in the weather

127
00:11:28,580 --> 00:10:07,240
reconnaissance aircraft that will be

128
00:11:28,590 --> 00:12:16,939
please step 542

129
00:12:21,480 --> 00:12:19,590
this is shuttle launch control just past

130
00:12:24,920 --> 00:12:21,490
the t-minus two hour and Counting mark

131
00:12:29,160 --> 00:12:24,930
in our countdown for mission STS 76 as

132
00:12:32,879 --> 00:12:29,170
we count down to a 3-13 a.m. launched

133
00:12:35,220 --> 00:12:32,889
this morning and mission specialist

134
00:12:37,679 --> 00:12:35,230
Shannon lucid sitting at the hatch

135
00:13:20,250 --> 00:12:37,689
wedding her turn to climb aboard the

136
00:14:40,920 --> 00:13:22,920
however system services and ready to

137
00:14:46,439 --> 00:14:44,429
dr. Anthony go ahead box team is ready

138
00:15:51,710 --> 00:14:46,449

copy that

139

00:15:56,360 --> 00:15:54,020

we've just heard shuttle launch director

140

00:15:57,980 --> 00:15:56,370

Jim Harrington complete the poll giving

141

00:16:21,560 --> 00:15:57,990

the final clear for the launch of the

142

00:16:31,490 --> 00:16:23,569

looking for an on-time launch of

143

00:16:35,030 --> 00:16:31,500

Atlantis at 3:13 am counting down to the

144

00:16:48,560 --> 00:16:35,040

final nine minutes before the launch of

145

00:16:53,100 --> 00:16:51,120

pilots air Frost will flip switches in

146

00:16:54,750 --> 00:16:53,110

the crew module to directly connect the

147

00:17:04,620 --> 00:16:54,760

three fuel cells to the essential power

148

00:17:04,630 --> 00:17:24,299

Oh

149

00:17:30,870 --> 00:17:27,329

got a glimpse of commander kevin chilton

150

00:17:34,289 --> 00:17:30,880

waving as the as the access arm was

151
00:17:37,289 --> 00:17:34,299
being retracted away crew now ready to

152
00:17:51,950 --> 00:17:37,299
go as we countdown the final seven

153
00:17:51,960 --> 00:17:59,750
before

154
00:18:05,360 --> 00:18:02,600
a profile test and the orbiter error

155
00:18:06,860 --> 00:18:05,370
services has started the flight control

156
00:18:09,020 --> 00:18:06,870
surfaces are being moved through a

157
00:18:12,890 --> 00:18:09,030
pre-programmed pattern to verify they

158
00:18:14,870 --> 00:18:12,900
are ready for launch next the main

159
00:18:27,680 --> 00:18:14,880
engines will begin build in position for

160
00:18:35,660 --> 00:18:29,630
Hey look what hydrogen tanks now being

161
00:18:37,760 --> 00:18:35,670
pressurized for flight all systems are

162
00:18:39,470 --> 00:18:37,770
go for launch at this time just a few

163
00:18:57,389 --> 00:18:39,480

minutes away from the sixteenth voyage

164

00:19:01,110 --> 00:18:59,580

the gaseous oxygen vent hood is being

165

00:19:09,110 --> 00:19:01,120

retracted away from the top of the

166

00:19:13,740 --> 00:19:12,120

trumpeter after that ban price

167

00:19:17,100 --> 00:19:13,750

kulookakoo close and lock your visors

168

00:19:18,870 --> 00:19:17,110

8802 Pro and this time for this

169

00:19:33,650 --> 00:19:18,880

experiment six to wake up the state

170

00:19:38,390 --> 00:19:35,330

Lance will be lost on a northerly

171

00:19:49,170 --> 00:19:38,400

trajectory inclined 51.6 degrees to the

172

00:19:49,180 --> 00:19:57,640

we have a go for engine start

173

00:19:57,650 --> 00:20:15,229

booster ignition and liftoff

174

00:20:31,990 --> 00:20:17,549

placing Atlanta from the proper heading

175

00:20:36,620 --> 00:20:34,730

engines are travelling back now nothing

176
00:20:38,900 --> 00:20:36,630
to ease the buildup of aerodynamic loads

177
00:20:40,460 --> 00:20:38,910
on the vehicle as Atlantis continues to

178
00:20:43,670 --> 00:20:40,470
accelerate rapidly through the dense

179
00:20:47,300 --> 00:20:43,680
lower altitudes traveling now over 650

180
00:20:52,370 --> 00:20:47,310
miles per hour time 48 seconds systems

181
00:20:53,870 --> 00:20:52,380
are performing well Atlantis is now

182
00:21:08,050 --> 00:20:53,880
easing through the period of maximum

183
00:21:08,060 --> 00:21:12,670
and the engines were following back up

184
00:21:21,200 --> 00:21:19,100
atlantis go at throttle up fire engines

185
00:21:22,640 --> 00:21:21,210
are now running at full status systems

186
00:21:24,890 --> 00:21:22,650
with the funding well i was the tutors

187
00:21:38,210 --> 00:21:24,900
now at sixty two thousand feet - a

188
00:21:42,020 --> 00:21:40,399

sighs rocket booster chamber pressures

189

00:21:53,779 --> 00:21:42,030

beginning to pay laughs signaling the

190

00:21:57,950 --> 00:21:55,549

the controller sees a good separation

191

00:22:00,349 --> 00:21:57,960

Atlantis is now flying free powered by

192

00:22:02,779 --> 00:22:00,359

ozone main engines second stage guidance

193

00:22:04,099 --> 00:22:02,789

is now in effect altitude now is one

194

00:22:06,440 --> 00:22:04,109

hundred seventy eight thousand feet

195

00:22:14,180 --> 00:22:06,450

downrange distance 38 miles