



1  
00:00:29,429 --> 00:00:27,509  
today's launch of atlantis will mark a

2  
00:00:30,630 --> 00:00:29,439  
historic milestone in u.s space flight

3  
00:00:32,709 --> 00:00:30,640  
endeavors

4  
00:00:34,790 --> 00:00:32,719  
the primary objective of this mission is

5  
00:00:36,389 --> 00:00:34,800  
to dock for the first time with russia's

6  
00:00:39,030 --> 00:00:36,399  
mir space station

7  
00:00:40,790 --> 00:00:39,040  
this is also the 100th u.s human space

8  
00:00:43,590 --> 00:00:40,800  
launch dating back to alan shepard's

9  
00:00:46,229 --> 00:00:43,600  
first historic 15-minute sub-orbital

10  
00:00:48,069 --> 00:00:46,239  
flight 34 years ago

11  
00:00:49,750 --> 00:00:48,079  
also this will be the first time 10

12  
00:00:52,549 --> 00:00:49,760  
individuals will fly aboard the shuttle

13  
00:00:55,350 --> 00:00:52,559

during a single flight

14

00:00:57,270 --> 00:00:55,360

and we are seeing live video or live tv

15

00:00:59,189 --> 00:00:57,280

coverage of our

16

00:01:01,189 --> 00:00:59,199

seven ascent astronauts who will be

17

00:01:02,069 --> 00:01:01,199

flying aboard atlantis today of course

18

00:01:03,910 --> 00:01:02,079

we'll be

19

00:01:05,990 --> 00:01:03,920

dropping off the two cosmonauts and

20

00:01:08,550 --> 00:01:06,000

returning with two other cosmonauts and

21

00:01:16,710 --> 00:01:08,560

astronaut norm thaggart on the space

22

00:01:23,429 --> 00:01:20,630

we are looking at uh mission specialist

23

00:01:25,109 --> 00:01:23,439

greg harbaugh who is on his uh third

24

00:01:26,630 --> 00:01:25,119

flight today he is mission specialist

25

00:01:28,550 --> 00:01:26,640

number two

26

00:01:29,910 --> 00:01:28,560

and mission specialist number one is

27

00:01:31,990 --> 00:01:29,920

ellen baker

28

00:01:35,190 --> 00:01:32,000

she also is on her third flight and she

29

00:01:36,789 --> 00:01:35,200

is the payload commander for sts-71

30

00:01:38,789 --> 00:01:36,799

the mission commander flight commander

31

00:01:41,030 --> 00:01:38,799

is a former chief of the astronaut

32

00:01:42,870 --> 00:01:41,040

office commander hoot robert hoot gibson

33

00:01:44,710 --> 00:01:42,880

on his fifth flight

34

00:01:47,109 --> 00:01:44,720

uh one of our two cosmonauts that will

35

00:01:48,870 --> 00:01:47,119

be flying today is anatoly soloviev on

36

00:01:50,789 --> 00:01:48,880

his fourth flight into space his first

37

00:01:52,310 --> 00:01:50,799

aboard the shuttle he is the mere 19th

38

00:01:55,109 --> 00:01:52,320

commander

39

00:01:57,429 --> 00:01:55,119  
and his fellow cosmonaut nikolai budaran

40

00:02:00,310 --> 00:01:57,439  
on his first flight into space

41

00:02:02,469 --> 00:02:00,320  
and uh our own pilot charles precourt

42

00:02:11,830 --> 00:02:02,479  
who was on his second flight into space

43

00:02:15,750 --> 00:02:13,270  
following their lunch the crew will be

44

00:02:18,070 --> 00:02:15,760  
given a uh briefing on today's weather's

45

00:02:19,430 --> 00:02:18,080  
conditions which at ksc as well as at

46

00:02:21,030 --> 00:02:19,440  
the various contingency landing sites

47

00:02:22,150 --> 00:02:21,040  
around the globe

48

00:02:23,830 --> 00:02:22,160  
and then they'll put on their flight

49

00:02:29,830 --> 00:02:23,840  
suits and make preparations to depart

50

00:02:34,869 --> 00:02:31,830  
this is shuttle launch control t-minus

51

00:02:38,309 --> 00:02:34,879

three hours and holding

52

00:02:40,229 --> 00:02:38,319

and we have live tv of our seven crew

53

00:02:41,270 --> 00:02:40,239

members who will fly aboard atlantis

54

00:02:43,509 --> 00:02:41,280

today

55

00:02:46,150 --> 00:02:43,519

beginning with commander robert hoot

56

00:02:48,390 --> 00:02:46,160

gibson who will be on his fifth

57

00:02:50,470 --> 00:02:48,400

space shuttle flight

58

00:02:55,509 --> 00:02:50,480

he is the former chief of the astronaut

59

00:02:57,190 --> 00:02:55,519

office uh just prior to uh taking this

60

00:02:59,830 --> 00:02:57,200

command position

61

00:03:01,589 --> 00:02:59,840

for this most significant flight sts-71

62

00:03:02,790 --> 00:03:01,599

which will dock for the first time with

63

00:03:15,110 --> 00:03:02,800

the

64

00:03:21,350 --> 00:03:17,750

gibson is being joined by his pilot and

65

00:03:22,949 --> 00:03:21,360

his mission specialists as well as his

66

00:03:24,149 --> 00:03:22,959

as well as the two cosmonauts who will

67

00:03:33,190 --> 00:03:24,159

fly aboard

68

00:03:37,990 --> 00:03:36,309

his pilot's name is charles precourt and

69

00:03:39,509 --> 00:03:38,000

of course he is

70

00:03:40,710 --> 00:03:39,519

the

71

00:03:42,630 --> 00:03:40,720

second

72

00:03:44,630 --> 00:03:42,640

in command aboard the shuttle

73

00:03:46,309 --> 00:03:44,640

and this is his second flight into space

74

00:03:47,750 --> 00:03:46,319

today

75

00:03:50,789 --> 00:03:47,760

they are being joined by mission

76

00:03:53,429 --> 00:03:50,799

specialists ellen baker

77

00:03:56,869 --> 00:03:53,439

she is on her third flight and she is

78

00:03:58,949 --> 00:03:56,879

the payload commander for sts-71 she has

79

00:04:03,750 --> 00:03:58,959

prime responsibility for the space lab

80

00:04:03,760 --> 00:04:09,110

this looks like

81

00:04:14,070 --> 00:04:11,509

our mission specialist greg harbaugh

82

00:04:16,949 --> 00:04:14,080

and he is difficult to distinguish them

83

00:04:19,189 --> 00:04:16,959

sometimes in their helmets in suit

84

00:04:20,949 --> 00:04:19,199

but he is the

85

00:04:23,030 --> 00:04:20,959

he is responsible for the orbiter

86

00:04:29,430 --> 00:04:23,040

docking system which is also in

87

00:04:32,230 --> 00:04:30,629

next we have

88

00:04:34,390 --> 00:04:32,240

one of our two cosmonauts who will be

89

00:04:37,430 --> 00:04:34,400

flying on board today this is

90

00:04:44,070 --> 00:04:37,440

nikolai budaran who is on his first

91

00:04:47,430 --> 00:04:46,310

he will serve as the flight engineer for

92

00:04:56,950 --> 00:04:47,440

the

93

00:04:58,790 --> 00:04:56,960

russian space station for several months

94

00:05:06,629 --> 00:04:58,800

once we launch and deliver them to that

95

00:05:11,029 --> 00:05:08,870

mission specialist bonnie dunbar is

96

00:05:13,670 --> 00:05:11,039

preparing her for her fourth flight

97

00:05:15,510 --> 00:05:13,680

she trained in star city in russia as

98

00:05:17,670 --> 00:05:15,520

the backup to

99

00:05:19,430 --> 00:05:17,680

astronaut dr norm thagard who is

100

00:05:21,270 --> 00:05:19,440

currently a board mayor

101  
00:05:22,710 --> 00:05:21,280  
and she would have been

102  
00:05:25,510 --> 00:05:22,720  
aboard the mere space station at this

103  
00:05:28,469 --> 00:05:25,520  
time if there had been any reason to not

104  
00:05:30,150 --> 00:05:28,479  
permit dr thagar to fly of course he has

105  
00:05:33,350 --> 00:05:30,160  
been on board for the past three months

106  
00:05:35,670 --> 00:05:33,360  
and now she's going to go and greet him

107  
00:05:38,390 --> 00:05:35,680  
and assist in the process to bring him

108  
00:05:40,390 --> 00:05:38,400  
back

109  
00:05:42,070 --> 00:05:40,400  
our second cosmonaut who will be flying

110  
00:05:44,070 --> 00:05:42,080  
aboard the space shuttle atlantis today

111  
00:05:46,310 --> 00:05:44,080  
is anatoly soloviev

112  
00:05:48,390 --> 00:05:46,320  
he is on his fourth flight into space

113  
00:05:50,790 --> 00:05:48,400

this of course being his first

114

00:05:53,430 --> 00:05:50,800

space shuttle launch and he is the

115

00:05:55,749 --> 00:05:53,440

commander for the mir 19 crew

116

00:05:56,710 --> 00:05:55,759

the mir 19 crew of course consisting of

117

00:05:57,510 --> 00:05:56,720

himself

118

00:06:01,830 --> 00:05:57,520

and

119

00:06:06,150 --> 00:06:03,990

this is shuttle launch control at t

120

00:06:08,710 --> 00:06:06,160

minus three hours and holding and we

121

00:06:11,110 --> 00:06:08,720

have live pictures of our seven person

122

00:06:17,189 --> 00:06:11,120

crew who are going to be flying today

123

00:06:22,469 --> 00:06:20,309

and we have uh our first look today of

124

00:06:25,590 --> 00:06:22,479

who gibson as he is walking out with the

125

00:06:34,469 --> 00:06:27,830

coming with him as the commander of the

126  
00:06:34,479 --> 00:06:37,270  
commander

127  
00:06:40,390 --> 00:06:38,790  
as well as the other members of the crew

128  
00:06:42,309 --> 00:06:40,400  
pilot charles precourt mission

129  
00:06:44,790 --> 00:06:42,319  
specialist ellen baker greg harbaugh

130  
00:06:46,150 --> 00:06:44,800  
bonnie dunbar and cosmonaut nikolai

131  
00:06:48,070 --> 00:06:46,160  
budaran

132  
00:06:48,870 --> 00:06:48,080  
all are in the process now of making

133  
00:06:50,390 --> 00:06:48,880  
their

134  
00:06:52,070 --> 00:06:50,400  
entry into the astro van where they will

135  
00:06:54,230 --> 00:06:52,080  
be driven

136  
00:08:24,950 --> 00:06:54,240  
on about a 25 minute trip out to launch

137  
00:08:27,110 --> 00:08:26,230  
resume the account and go for launch

138  
00:08:28,790 --> 00:08:27,120

please

139

00:08:29,589 --> 00:08:28,800

astros go you have a range clear to

140

00:08:35,029 --> 00:08:29,599

launch

141

00:08:37,829 --> 00:08:35,039

director go ahead yes sir your lost team

142

00:08:41,509 --> 00:08:37,839

is ready to proceed at 10 27.

143

00:08:43,430 --> 00:08:41,519

hi copy i'll be on my pole at this time

144

00:08:46,630 --> 00:08:43,440

launch direct on 212 coming around for

145

00:08:48,550 --> 00:08:46,640

go for launch payload director go

146

00:08:49,670 --> 00:08:48,560

engineering director gm engineering is

147

00:08:51,430 --> 00:08:49,680

goal

148

00:09:06,829 --> 00:08:51,440

snma director

149

00:09:10,150 --> 00:09:08,630

uh stand by a second while i say a

150

00:09:11,670 --> 00:09:10,160

message to atlantis

151  
00:09:14,470 --> 00:09:11,680  
launch director

152  
00:09:16,870 --> 00:09:14,480  
well i hope the uh vehicle is ready the

153  
00:09:18,310 --> 00:09:16,880  
weather is finally coming there for us

154  
00:09:20,070 --> 00:09:18,320  
and so

155  
00:09:21,990 --> 00:09:20,080  
you guys have a good mission

156  
00:09:26,150 --> 00:09:22,000  
and we'll see you back here in about a

157  
00:09:29,750 --> 00:09:27,829  
jim thank you very much it's always a

158  
00:09:31,430 --> 00:09:29,760  
pleasure to work with you uh we are more

159  
00:09:33,269 --> 00:09:31,440  
than ready and maybe it's gonna feel

160  
00:09:34,790 --> 00:09:33,279  
twice as good to get off today thanks

161  
00:09:37,110 --> 00:09:34,800  
for all the uh thanks for all the great

162  
00:09:38,470 --> 00:09:37,120  
work and the great support

163  
00:09:40,870 --> 00:09:38,480

and entertainment director you have

164

00:09:43,990 --> 00:09:40,880

requests to receive the launch okay

165

00:09:47,590 --> 00:09:45,750

yeah

166

00:09:49,910 --> 00:09:47,600

and we have a go for auto sequence start

167

00:09:51,910 --> 00:09:49,920

atlantis onboard computers have primary

168

00:09:53,509 --> 00:09:51,920

control of all the vehicles critical

169

00:09:59,030 --> 00:09:53,519

functions

170

00:09:59,040 --> 00:10:01,910

fifteen

171

00:10:05,110 --> 00:10:03,590

twelve

172

00:10:06,150 --> 00:10:05,120

t-minus ten

173

00:10:07,110 --> 00:10:06,160

nine

174

00:10:08,230 --> 00:10:07,120

eight

175

00:10:09,269 --> 00:10:08,240

seven

176  
00:10:11,190 --> 00:10:09,279  
six

177  
00:10:12,310 --> 00:10:11,200  
five we have three main engines up and

178  
00:10:13,350 --> 00:10:12,320  
running

179  
00:10:14,389 --> 00:10:13,360  
two

180  
00:10:16,150 --> 00:10:14,399  
one

181  
00:10:18,230 --> 00:10:16,160  
and liftoff of the space shuttle

182  
00:10:20,230 --> 00:10:18,240  
atlantis on a mission that will herald a

183  
00:10:33,509 --> 00:10:20,240  
new day of international cooperation in

184  
00:10:37,509 --> 00:10:35,509  
atlantis is completing a roll maneuver

185  
00:10:38,790 --> 00:10:37,519  
as the vehicle turns into a heads down

186  
00:10:41,430 --> 00:10:38,800  
position

187  
00:11:03,269 --> 00:10:41,440  
on course for 161 nautical mile orbit

188  
00:11:07,269 --> 00:11:04,710

atlantis's three main engines are

189

00:11:09,030 --> 00:11:07,279

throttling down now at 68 percent of

190

00:11:10,710 --> 00:11:09,040

rated thrust as the vehicle passes

191

00:11:12,710 --> 00:11:10,720

through the area of maximum dynamic

192

00:11:14,389 --> 00:11:12,720

pressure approaching one minute into the

193

00:11:16,470 --> 00:11:14,399

flight the orbiter is downrange from the

194

00:11:18,550 --> 00:11:16,480

launch site three nautical miles

195

00:11:23,829 --> 00:11:18,560

altitude already up to forty thousand

196

00:11:23,839 --> 00:11:31,030

atlantis houston go at throttle up

197

00:11:39,190 --> 00:11:32,949

three liquid fueled engines are back at

198

00:11:43,110 --> 00:11:41,269

the vehicle's altitude is approaching 70

199

00:11:47,509 --> 00:11:43,120

thousand feet downrange from the launch

200

00:11:50,870 --> 00:11:48,949

atlantis is already traveling two

201  
00:11:52,389 --> 00:11:50,880  
thousand miles per hour as the vehicle

202  
00:11:54,710 --> 00:11:52,399  
passes through one and a half minutes

203  
00:11:56,790 --> 00:11:54,720  
into the flight

204  
00:11:58,629 --> 00:11:56,800  
the next event is burnout and separation

205  
00:12:00,550 --> 00:11:58,639  
of the twin solid rocket boosters at

206  
00:12:23,030 --> 00:12:00,560  
about the two minute four second mark of

207  
00:12:26,949 --> 00:12:25,590  
srb separation is confirmed aboard the

208  
00:12:28,790 --> 00:12:26,959  
orbiter

209  
00:12:32,470 --> 00:12:28,800  
atlantis is downrange from the launch

210  
00:12:34,230 --> 00:12:32,480  
site 32 nautical miles altitude is 170

211  
00:12:36,790 --> 00:12:34,240  
000 feet

212  
00:12:39,430 --> 00:12:36,800  
traveling 4 400 feet per second or about

213  
00:12:42,470 --> 00:12:39,440

3 thousand miles per hour performance

214

00:12:42,480 --> 00:12:48,550

we copy performance is nominal kurt

215

00:12:48,560 --> 00:12:54,949

houston we show michael on speed

216

00:13:04,829 --> 00:12:57,750

atlantis houston we show a nominal miko

217

00:13:08,310 --> 00:13:07,110

required we now again have live

218

00:13:10,230 --> 00:13:08,320

television

219

00:13:11,269 --> 00:13:10,240

from the cargo bay the spacecraft this

220

00:13:13,030 --> 00:13:11,279

from a

221

00:13:14,710 --> 00:13:13,040

camera that's uh in the forward corner

222

00:13:16,550 --> 00:13:14,720

looking at the front of the space lab

223

00:13:34,389 --> 00:13:16,560

module mounted at the far end of the

224

00:13:37,910 --> 00:13:35,910

this is mission control houston this

225

00:13:39,750 --> 00:13:37,920

live television from atlanta shows the

226

00:13:41,350 --> 00:13:39,760

docking module

227

00:13:49,430 --> 00:13:41,360

located in the forward portion of the

228

00:13:49,440 --> 00:13:53,430

out to the odf whenever you're ready

229

00:13:53,440 --> 00:13:57,110

go ahead sir

230

00:14:01,189 --> 00:13:59,189

uh yeah that all went uh

231

00:14:02,389 --> 00:14:01,199

very well according to the procedure and

232

00:14:04,470 --> 00:14:02,399

without any

233

00:14:06,230 --> 00:14:04,480

difficulty i

234

00:14:09,110 --> 00:14:06,240

have removed and stowed the three

235

00:14:11,110 --> 00:14:09,120

identified caps at the four and a half

236

00:14:14,230 --> 00:14:11,120

sections of the booster fan

237

00:14:16,470 --> 00:14:14,240

and at the aft end of the mixing box

238

00:14:18,629 --> 00:14:16,480

forward of the ods

239

00:14:19,590 --> 00:14:18,639

i verified good airflow coming at the

240

00:14:22,389 --> 00:14:19,600

top of

241

00:14:24,069 --> 00:14:22,399

the outlet there

242

00:14:26,389 --> 00:14:24,079

around the top of the halo and the

243

00:14:27,910 --> 00:14:26,399

external airlock top of the ods in other

244

00:14:29,509 --> 00:14:27,920

words

245

00:14:31,829 --> 00:14:29,519

and

246

00:14:34,150 --> 00:14:31,839

the payload isolation valve was closed

247

00:14:35,990 --> 00:14:34,160

it is open and

248

00:14:37,110 --> 00:14:36,000

i think that's it

249

00:14:38,150 --> 00:14:37,120

let me know if you have any questions