



1
00:00:44,180 --> 00:00:42,140
this is shuttle launch control at

2
00:00:45,860 --> 00:00:44,190
t-minus 3 hours in holding we've got

3
00:00:50,150 --> 00:00:45,870
about 25 minutes remaining in this

4
00:00:51,890 --> 00:00:50,160
built-in hold and was a planned to our

5
00:00:55,490 --> 00:00:51,900
built-in holds it's a standard part of

6
00:00:58,220 --> 00:00:55,500
our shuttle launch countdown everything

7
00:01:00,350 --> 00:00:58,230
continuing to go well we had a very good

8
00:01:02,560 --> 00:01:00,360
weather briefing the outlooks good for

9
00:01:05,060 --> 00:01:02,570
weather here at KSC and also at the

10
00:01:08,750 --> 00:01:05,070
transoceanic abort site should one of

11
00:01:11,719 --> 00:01:08,760
those become necessary the satellite is

12
00:01:14,060 --> 00:01:11,729
now returned to KSC we are now feeding

13
00:01:17,690 --> 00:01:14,070

out live pictures that pad 39a with the

14

00:01:21,170 --> 00:01:17,700

space shuttle Atlantis we're standing by

15

00:01:23,749 --> 00:01:21,180

to receive live pictures of the STS 79

16

00:01:27,200 --> 00:01:23,759

crew members as they are getting suited

17

00:01:30,800 --> 00:01:27,210

up and getting ready to ride out to the

18

00:01:33,400 --> 00:01:30,810

launch pad we do have the flight crew

19

00:01:38,960 --> 00:01:33,410

members for STS 79 getting strapped in

20

00:01:41,510 --> 00:01:38,970

actually getting their suits on got

21

00:01:42,469 --> 00:01:41,520

commander Bill Reedy he's making his

22

00:01:44,270 --> 00:01:42,479

third flight today

23

00:01:46,910 --> 00:01:44,280

he has overall responsibility for

24

00:01:48,200 --> 00:01:46,920

commanding the flight he would become

25

00:01:51,200 --> 00:01:48,210

the fourth shuttle commander to dock

26
00:01:53,780 --> 00:01:51,210
with the Russian space station and that

27
00:01:56,899 --> 00:01:53,790
will occur on Wednesday evening he will

28
00:01:59,570 --> 00:01:56,909
also have control the vehicle during

29
00:02:03,230 --> 00:01:59,580
reentry we've also got pilot Terry will

30
00:02:05,450 --> 00:02:03,240
cut he's will assist really at the

31
00:02:09,109 --> 00:02:05,460
flight controls he's making his second

32
00:02:11,000 --> 00:02:09,119
flight today he will assist in

33
00:02:13,460 --> 00:02:11,010
transferring logistics to and from the

34
00:02:15,470 --> 00:02:13,470
MIR station he will also assist

35
00:02:19,430 --> 00:02:15,480
commander already in the fly around of

36
00:02:22,120 --> 00:02:19,440
the station after the undocking the

37
00:02:25,640 --> 00:02:22,130
shuttle will stay docked about five days

38
00:02:29,240 --> 00:02:25,650

we've got dr. Jay apt ready to go today

39

00:02:32,110 --> 00:02:29,250

he's mission specialist one making his

40

00:02:34,280 --> 00:02:32,120

fourth flight he will be involved in

41

00:02:37,190 --> 00:02:34,290

activities and experiments aboard the

42

00:02:41,240 --> 00:02:37,200

space had earth observations bio

43

00:02:42,890 --> 00:02:41,250

technology systems and the furnaces that

44

00:02:45,410 --> 00:02:42,900

are onboard and the refrigerators and

45

00:02:47,509 --> 00:02:45,420

freezers it's also designated as one of

46

00:02:50,539 --> 00:02:47,519

the space Walker should one become

47

00:02:52,370 --> 00:02:50,549

necessary and over across the room we've

48

00:02:53,120 --> 00:02:52,380

got the rest of the crew getting ready

49

00:02:57,290 --> 00:02:53,130

for launch

50

00:02:59,870 --> 00:02:57,300

de mission specialist Tom Akers who is

51
00:03:01,700 --> 00:02:59,880
also the flight engineer he will assist

52
00:03:03,470 --> 00:03:01,710
a commander and pilot with the a sentry

53
00:03:05,540 --> 00:03:03,480
entry checklist and in monitoring all

54
00:03:08,060 --> 00:03:05,550
the vehicle systems he's making his

55
00:03:10,790 --> 00:03:08,070
fourth flight today he will be heavily

56
00:03:17,390 --> 00:03:10,800
involved in the transfer of logistics to

57
00:03:19,420 --> 00:03:17,400
and from the MIR station and here we

58
00:03:22,550 --> 00:03:19,430
have mission specialist John Blaha

59
00:03:24,920 --> 00:03:22,560
getting his flight suit tested he's

60
00:03:26,900 --> 00:03:24,930
making his fifth flight today getting

61
00:03:28,790 --> 00:03:26,910
ready to embark on his four-month stay

62
00:03:31,310 --> 00:03:28,800
aboard the MIR space station where he

63
00:03:33,440 --> 00:03:31,320

will be involved in scientific

64

00:03:40,490 --> 00:03:33,450

investigations on long-duration

65

00:03:44,860 --> 00:03:40,500

spaceflight and we've got mission

66

00:03:51,020 --> 00:03:44,870

specialist Carl walls getting ready he's

67

00:03:53,150 --> 00:03:51,030

waving ready for launch today he is

68

00:03:55,250 --> 00:03:53,160

making his third flight today he will

69

00:03:57,410 --> 00:03:55,260

oversee the operation of the orbiter

70

00:04:00,320 --> 00:03:57,420

docking system and will operate several

71

00:04:02,150 --> 00:04:00,330

experiments during the flight he will

72

00:04:03,650 --> 00:04:02,160

also use the IMAX camera to perform a

73

00:04:08,090 --> 00:04:03,660

photographic survey of the MIR station

74

00:04:09,650 --> 00:04:08,100

during the fly around he's also one of

75

00:04:25,420 --> 00:04:09,660

the designated space Walker should we

76
00:04:30,440 --> 00:04:28,270
this is shuttle launch control we've got

77
00:04:31,970 --> 00:04:30,450
pictures now that's like crew walking

78
00:04:35,750 --> 00:04:31,980
down the hall toward the elevator at

79
00:04:41,510 --> 00:04:35,760
their crew quarters J apt Carl walls

80
00:04:43,610 --> 00:04:41,520
tile makers saying hello to some

81
00:04:48,620 --> 00:04:43,620
employees who are wishing them well for

82
00:04:51,950 --> 00:04:48,630
their flight crews been in training for

83
00:04:54,110 --> 00:04:51,960
over a year now for the preparations for

84
00:04:56,330 --> 00:04:54,120
the flight in fact John Blaha has spent

85
00:04:58,580 --> 00:04:56,340
quite a bit of time over at the Gagarin

86
00:05:00,230 --> 00:04:58,590
cosmonaut training center in Star City

87
00:05:02,750 --> 00:05:00,240
just outside Moscow

88
00:05:46,480 --> 00:05:02,760

he's also studied a new language and

89

00:05:50,770 --> 00:05:48,340

and the crew is getting ready to ride

90

00:05:55,029 --> 00:05:50,780

out to launch pad 39a they'll be led by

91

00:05:57,960 --> 00:05:55,039

the KSC's purity escort takes about 20

92

00:06:00,400 --> 00:05:57,970

minutes to arrive out at the launch pad

93

00:06:05,970 --> 00:06:00,410

who was about to embark on a 10 day

94

00:06:10,320 --> 00:06:08,700

all continues to look well with the

95

00:06:13,290 --> 00:06:10,330

launch countdown no problems and

96

00:06:16,200 --> 00:06:13,300

technical issue looking at a 454 a.m.

97

00:06:22,650 --> 00:06:16,210

Eastern Time liftoff of the shuttle

98

00:06:25,020 --> 00:06:22,660

Atlantis audition SPS 79 at the opening

99

00:06:28,110 --> 00:06:25,030

of our launch window today Shannon Lucid

100

00:06:30,570 --> 00:06:28,120

and her her fellow cosmonaut crewmates

101
00:06:32,190 --> 00:06:30,580
aboard the MIR station will be located

102
00:06:34,800 --> 00:06:32,200
just off the coast of South America

103
00:06:39,420 --> 00:06:34,810
under the equator and there'll be about

104
00:06:41,490 --> 00:06:39,430
5,000 nautical miles away from KSC it's

105
00:06:52,779 --> 00:06:41,500
not likely that they would be able to

106
00:06:58,040 --> 00:06:55,730
we've got about 20 seconds remaining in

107
00:07:01,070 --> 00:06:58,050
our built-in hold countdown clock will

108
00:07:03,679 --> 00:07:01,080
be resuming momentarily at the t-minus

109
00:07:05,629 --> 00:07:03,689
nine minute and Counting mark toward the

110
00:07:13,909 --> 00:07:05,639
launch of the shuttle Atlantis on

111
00:07:22,459 --> 00:07:13,919
mission STS 79 we're at t-minus nine

112
00:07:24,379 --> 00:07:22,469
minutes and Counting in just a few

113
00:07:26,510 --> 00:07:24,389

seconds the orbiters excess arm will be

114

00:07:29,510 --> 00:07:26,520

retracted away from the vehicle to the

115

00:07:31,580 --> 00:07:29,520

launch position this arm is used by the

116

00:07:33,920 --> 00:07:31,590

crew to get into the crew module and

117

00:08:08,930 --> 00:07:33,930

that arm can be re extended within a few

118

00:08:13,219 --> 00:08:11,180

a profile test of the overdose arrow

119

00:08:15,110 --> 00:08:13,229

services has started

120

00:08:17,600 --> 00:08:15,120

flight control services are being moved

121

00:08:28,230 --> 00:08:17,610

through a pre-programmed pattern to

122

00:08:32,909 --> 00:08:30,300

the nozzles on three main engines are

123

00:08:36,240 --> 00:08:32,919

being gimballed and positioned for

124

00:08:38,159 --> 00:08:36,250

launch today all systems are go for

125

00:08:40,740 --> 00:08:38,169

launch at this time just a few minutes

126
00:08:43,019 --> 00:08:40,750
away from the 17th voyage of Atlantis

127
00:08:44,639 --> 00:08:43,029
with a crew of six this will be the

128
00:09:01,680 --> 00:08:44,649
fourth shuttle flight that will dock

129
00:09:03,810 --> 00:09:01,690
with the Russian Mir Space Station the

130
00:09:10,770 --> 00:09:03,820
gaseous oxygen vent hose being retracted

131
00:09:14,430 --> 00:09:12,630
and the six-member crew is about to

132
00:09:16,290 --> 00:09:14,440
embark on the first day of the plant ten

133
00:09:18,060 --> 00:09:16,300
day flight and the return of astronaut

134
00:09:20,190 --> 00:09:18,070
Shannon lucid and the beginning of John

135
00:09:31,760 --> 00:09:20,200
Blaha four-month stay aboard the MIR

136
00:09:36,260 --> 00:09:34,460
if you see that the work that so much

137
00:09:37,730 --> 00:09:36,270
the better go check on the Atlanta put

138
00:09:48,180 --> 00:09:37,740

her through enough memory for the three

139

00:09:57,960 --> 00:09:52,769

eleven t-minus ten nine eight we have a

140

00:10:04,210 --> 00:10:01,270

one we have booster ignition and liftoff

141

00:10:07,480 --> 00:10:04,220

of Atlantis on the fourth flight to dock

142

00:10:19,620 --> 00:10:07,490

with the Russian space station Houston

143

00:10:28,390 --> 00:10:24,130

this rolls complete Roger roll Atlantis

144

00:10:33,970 --> 00:10:28,400

and your MTS h2 out message is a do sir

145

00:10:35,770 --> 00:10:33,980

only no action the roll maneuver is

146

00:10:37,900 --> 00:10:35,780

complete aboard Atlantis the vehicles

147

00:10:41,020 --> 00:10:37,910

now in a heads-down position on course

148

00:10:47,440 --> 00:10:41,030

for a 51.6 degree 160 nautical mile

149

00:10:49,090 --> 00:10:47,450

orbit three engines aboard Atlantis

150

00:10:50,620 --> 00:10:49,100

preparing to throttle down now as the

151
00:10:53,910 --> 00:10:50,630
vehicle prepares to pass through the

152
00:10:56,440 --> 00:10:53,920
area of maximum dynamic pressure

153
00:10:58,720 --> 00:10:56,450
Atlantis's velocity is approaching 900

154
00:11:00,340 --> 00:10:58,730
miles per hour the vehicles already 2

155
00:11:14,410 --> 00:11:00,350
and a half miles downrange from the

156
00:11:14,420 --> 00:11:21,070
Atlantis Houston go at throttle up

157
00:11:25,760 --> 00:11:23,870
one minute 25 seconds into the flight

158
00:11:30,980 --> 00:11:25,770
the three liquid-fueled engines are now

159
00:11:33,740 --> 00:11:30,990
back at full throttle about 35 seconds

160
00:11:35,570 --> 00:11:33,750
away now from burnout and separation of

161
00:11:37,610 --> 00:11:35,580
the twin solid rocket boosters aboard

162
00:11:39,410 --> 00:11:37,620
the orbiter Atlantis is 12 and a half

163
00:11:42,100 --> 00:11:39,420

miles downrange from the launch site

164

00:11:53,780 --> 00:11:42,110

current altitude 18 miles traveling

165

00:11:56,180 --> 00:11:53,790

2,300 miles per hour the hydraulic

166

00:11:57,950 --> 00:11:56,190

systems all three of those ap use

167

00:12:00,140 --> 00:11:57,960

auxiliary power units are in good shape

168

00:12:12,170 --> 00:12:00,150

as are the electricity producing fuel

169

00:12:14,540 --> 00:12:12,180

cells standing by for SRB separation SRB

170

00:12:23,120 --> 00:12:14,550

separation is confirmed two minutes 15

171

00:12:27,320 --> 00:12:23,130

seconds into the flight window close and

172

00:12:42,830 --> 00:12:27,330

lock screen back time window close zero

173

00:12:49,730 --> 00:12:42,840

nine ARP SRA see you that hydraulic

174

00:12:54,110 --> 00:12:49,740

recorder 50 RPS that is complete guilty

175

00:13:01,090 --> 00:12:54,120

perform a peep restart max Lucie good

176

00:13:12,840 --> 00:13:04,060

hello TC looks like three good APU

177

00:13:12,850 --> 00:13:20,060

by booster three engines ready copy

178

00:13:20,070 --> 00:13:30,250

yeah so maybe this whole bunch open copy

179

00:13:41,090 --> 00:13:33,530

the existence that keeps liftoff

180

00:13:43,430 --> 00:13:41,100

confirmed copy fly booster and the

181

00:13:46,040 --> 00:13:43,440

messages inducer only each table beyond

182

00:13:50,630 --> 00:13:46,050

the right copy do sir only Capcom can

183

00:13:54,770 --> 00:13:50,640

fly can't you see the roll brunch rolls

184

00:13:58,070 --> 00:13:54,780

complete Roger roll Atlantis and your

185

00:14:04,980 --> 00:13:58,080

MPs h2 out message is a do sir only no

186

00:14:04,990 --> 00:14:40,450

so around 367 copy

187

00:14:40,460 --> 00:14:46,579

that's to me sad major mode 103

188

00:14:46,589 --> 00:21:34,680

copy us rb7

189

00:22:48,500 --> 00:21:37,000

okay we're live on the flight deck reads

190

00:23:01,410 --> 00:22:57,600

Justin Atlantis Kuya cross that bill do

191

00:23:14,130 --> 00:23:01,420

you still have a video inspector yes sir

192

00:23:15,990 --> 00:23:14,140

we do and color still faded out if you

193

00:23:22,770 --> 00:23:16,000

can read that or not but it says happy

194

00:23:27,090 --> 00:23:22,780

Anniversary Panthers number 20 and it's

195

00:23:29,940 --> 00:23:27,100

from me so I wanted to wish you a great

196

00:23:31,230 --> 00:23:29,950

anniversary Tyler I'm having fun we

197

00:23:32,700 --> 00:23:31,240

can't be called Carl once you try to

198

00:23:34,770 --> 00:23:32,710

bring that up a little closer to the

199

00:23:38,030 --> 00:23:34,780

lens and of course congratulations to

200

00:23:40,440 --> 00:23:38,040

the two of you from all of us down here

201
00:25:06,070 --> 00:23:40,450
and that's great that we got a good shot

202
00:25:10,390 --> 00:25:08,000
like twenty two minutes you're gonna

203
00:25:17,320 --> 00:25:10,400
turn your flight controller power on

204
00:25:22,450 --> 00:25:17,330
I got we might as well go flat now

205
00:25:27,300 --> 00:25:22,460
actually okay out of my team because we

206
00:25:31,800 --> 00:25:27,310
don't just get your bike until tomorrow

207
00:26:51,520 --> 00:25:31,810
here comes an item 19 that's a track yes

208
00:26:58,540 --> 00:26:54,880
Houston contact and capture Lantis and

209
00:30:02,710 --> 00:26:58,550
mirror shake enhance copy capture

210
00:30:07,060 --> 00:30:05,440
and Belarus address each of us has to

211
00:36:59,179 --> 00:30:07,070
have some bread and salt which is the

212
00:37:05,370 --> 00:37:01,919
I'd like to point out one thing here in

213
00:37:09,419 --> 00:37:05,380

the background we have our crew emblem

214

00:37:11,849 --> 00:37:09,429

STS seventy-nine crew emblem you'll see

215

00:37:13,769 --> 00:37:11,859

two EBA gloves grasping hands is the

216

00:37:16,949 --> 00:37:13,779

symbol of the international cooperation

217

00:37:19,890 --> 00:37:16,959

that we share this particular one will

218

00:37:21,959 --> 00:37:19,900

leave aboard the mirror for them it's

219

00:37:24,269 --> 00:37:21,969

signed by the members of our training

220

00:37:27,269 --> 00:37:24,279

and Mission Control team back in Houston

221

00:37:29,900 --> 00:37:27,279

and just to let them know that it's not

222

00:37:33,299 --> 00:37:29,910

just us up here but it's a it's a tune

223

00:37:37,769 --> 00:37:33,309

with the ground with everybody involved

224

00:37:39,390 --> 00:37:37,779

in in NASA and the contractors that that

225

00:37:41,309 --> 00:37:39,400

makes this all happen it's going to make

226

00:37:47,099 --> 00:37:41,319

it happen again in the future as we

227

00:37:50,699 --> 00:37:47,109

build International Space Station the

228

00:37:52,949 --> 00:37:50,709

gifts we have Russian colleagues so now

229

00:37:56,309 --> 00:37:52,959

if you can see very well but we're

230

00:38:00,359 --> 00:37:56,319

floating here a shudder made out of

231

00:38:02,160 --> 00:38:00,369

chocolate so that when Valerie looks out

232

00:38:05,160 --> 00:38:02,170

his window maybe he can put that in

233

00:38:14,099 --> 00:38:05,170

there is a simulation of the Atlantis

234

00:38:24,860 --> 00:38:14,109

silver lay and Sasha and one other gift

235

00:38:29,760 --> 00:38:27,510

because we know their missus and they'll

236

00:38:32,670 --> 00:38:29,770

want to know what we're doing we have

237

00:38:35,250 --> 00:38:32,680

two watches they both set on Houston

238

00:38:37,920 --> 00:38:35,260

time because of all the things that

239

00:38:40,230 --> 00:38:37,930

we've done here in space as a joint crew

240

00:38:42,660 --> 00:38:40,240

probably telling you what time it is has

241

00:38:45,810 --> 00:38:42,670

been the most exciting for all of us and

242

00:38:47,760 --> 00:38:45,820

and we think that maybe with the watch

243

00:38:49,440 --> 00:38:47,770

set the Houston time every time they

244

00:38:50,940 --> 00:38:49,450

look at it they'll remember us and I

245

00:38:52,290 --> 00:38:50,950

know that every time we look at in the

246

00:39:38,820 --> 00:38:52,300

sky and see the mirror will remember

247

00:39:46,770 --> 00:39:41,120

that's the end of our program tonight

248

00:39:49,620 --> 00:39:46,780

and bill as you so aptly stated even in

249

00:41:29,010 --> 00:39:49,630

the greatest of successes there can be a

250

00:41:29,020 --> 00:44:53,410

and Atlantis shusun great picture of Mir

251
00:45:03,910 --> 00:44:56,559
I don't think the networks can't compare

252
00:47:27,160 --> 00:45:03,920
with this for high drama tonight you

253
00:49:25,650 --> 00:47:35,800
you

254
00:49:34,680 --> 00:49:28,799
the shape of the patch saying into the

255
00:50:20,140 --> 00:49:34,690
form of an Eevee a hatch way it's a

256
00:50:29,320 --> 00:50:25,180
like I'm so good residual burn good

257
00:50:30,970 --> 00:50:29,330
residuals Atlanta Houston reads we show

258
00:50:32,560 --> 00:50:30,980
good burn good residuals

259
00:50:34,030 --> 00:50:32,570
okay now flight controllers will be

260
00:50:45,790 --> 00:50:34,040
picking up in the post burn section

261
00:50:49,500 --> 00:50:45,800
entry checklist on page 332 I'll bet you

262
00:50:56,200 --> 00:50:52,090
my problems are supposed to bear you can

263
00:50:58,180 --> 00:50:56,210

take complete all right then in your

264

00:51:02,050 --> 00:50:58,190

history to check that required no record

265

00:51:04,540 --> 00:51:02,060

and porter shift on that record no ma'am

266

00:51:06,910 --> 00:51:04,550

and hydraulic fluid thermal conditioning

267

00:51:21,850 --> 00:51:06,920

that required some obscure Clark ok

268

00:51:30,309 --> 00:51:21,860

Capcom official Atlantis Houston Energy

269

00:51:39,880 --> 00:51:36,669

okay how's your data looking GMC take

270

00:51:41,799 --> 00:51:39,890

care data to CNC okay stay bond and

271

00:51:43,229 --> 00:51:41,809

we're still evaluating right now then

272

00:51:47,529 --> 00:51:43,239

they have a better than their data

273

00:51:53,499 --> 00:51:47,539

take care data to gene see Lana Houston

274

00:52:05,450 --> 00:51:53,509

take air data to G and C only here down

275

00:52:05,460 --> 00:52:24,810

right castles open

276

00:52:30,800 --> 00:52:26,370

yeah we coming around the room for

277

00:52:32,760 --> 00:52:30,810

post-landing deltas no deltas

278

00:52:34,680 --> 00:52:32,770

congratulations Atlantis and your highly

279

00:52:36,960 --> 00:52:34,690

successful mission and of course welcome

280

00:53:04,020 --> 00:52:36,970

home Shannon from your record-setting

281

00:53:05,550 --> 00:53:04,030

flight above mirror okay no flaming

282

00:53:08,910 --> 00:53:05,560

deltas we'll be standing by with him

283

00:53:10,950 --> 00:53:08,920

updates 5 3 Houston reads we have no

284

00:53:19,410 --> 00:53:10,960

post-landing deltas we're ready to pick

285

00:53:24,150 --> 00:53:19,420

up the entry checklist page 5-3 why'd he

286

00:53:31,170 --> 00:53:24,160

come yeah we're getting here form over

287

00:53:40,260 --> 00:53:31,180

to page 5 - okay we need a motivation

288

00:53:42,690 --> 00:53:40,270

page 5 8 - Houston for reads we'd like

289

00:53:44,700 --> 00:53:42,700

you to move ahead to page 5 - 8 we're

290

00:53:46,410 --> 00:53:44,710

getting ready for ammonia activations

291

00:54:16,420 --> 00:53:46,420

like you to work that procedure with the

292

00:54:22,120 --> 00:54:18,970

about goofy

293

00:54:54,819 --> 00:54:22,130

one foot six inches you should have

294

00:54:54,829 --> 00:56:47,990

it's not much bounce

295

00:56:52,430 --> 00:56:50,270

so the shuttle will be landing from the

296

00:56:54,560 --> 00:56:52,440

northwest to southeast approach again

297

00:57:02,789 --> 00:56:54,570

runway one-five is the landing site for

298

00:57:07,650 --> 00:57:04,919

atlantis breaks its way through one deck

299

00:57:20,320 --> 00:57:07,660

of clouds very clear conditions at the

300

00:57:20,330 --> 00:57:26,730

Atlanta's now 4,500 feet in altitude

301
00:57:26,740 --> 00:57:45,349
perfectly aligned with runway one-five

302
00:57:59,309 --> 00:57:47,479
reading now flaring up Atlantis's nose

303
00:58:15,240 --> 00:58:02,769
main gear touchdown we'll cut now

304
00:58:19,770 --> 00:58:17,849
nose gear touchdown Atlantis now rolling

305
00:58:22,470 --> 00:58:19,780
out on runway one-five at the Kennedy

306
00:58:24,180 --> 00:58:22,480
Space Center wrapping up a 3.9 million

307
00:58:26,160 --> 00:58:24,190
mile mission to bring Shannon loose at

308
00:59:52,150 --> 00:58:26,170
home after a u.s. record six months in

309
00:59:55,030 --> 00:59:53,380
thank you said you'll have to go ahead