



1
00:01:09,890 --> 00:01:07,790
we are now in the final 5 and 1/2 hours

2
00:01:12,680 --> 00:01:09,900
of the countdown for the launch of the

3
00:01:14,330 --> 00:01:12,690
space shuttle Atlantis on the second

4
00:01:38,620 --> 00:01:14,340
mission to dock with the Russian Mir

5
00:01:43,870 --> 00:01:40,749
this is shuttle launch control at

6
00:01:45,520 --> 00:01:43,880
t-minus three hours and holding where we

7
00:01:55,250 --> 00:01:45,530
are now in the student room and we see

8
00:02:02,000 --> 00:01:59,600
going across the room and our pilot Jin

9
00:02:04,330 --> 00:02:02,010
whole-cell undergoing their final suit

10
00:02:14,660 --> 00:02:04,340
up and check out other helmet

11
00:02:17,180 --> 00:02:14,670
pressurization checks mission specialist

12
00:02:19,100 --> 00:02:17,190
Chris Hatfield will be operating the

13
00:02:32,350 --> 00:02:19,110

remote manipulator arm during this

14

00:02:38,410 --> 00:02:35,980

going across the room and we sailed bill

15

00:02:47,080 --> 00:02:38,420

McArthur finishing his suit up

16

00:02:47,090 --> 00:02:57,430

and this should be Jerry Ross lead

17

00:03:02,440 --> 00:02:59,780

these launch and entry suits are not

18

00:03:05,600 --> 00:03:02,450

very comfortable that they're certainly

19

00:03:09,620 --> 00:03:05,610

functional very visible temperature now

20

00:03:12,730 --> 00:03:09,630

at the launch pad at 58 degrees picking

21

00:03:22,610 --> 00:03:12,740

up the count now and three two one

22

00:03:24,680 --> 00:03:22,620

t-minus three hours and Counting this is

23

00:03:27,620 --> 00:03:24,690

shuttle launch control at t-minus two

24

00:03:31,660 --> 00:03:27,630

hours 54 minutes 55 seconds and counting

25

00:03:34,520 --> 00:03:31,670

and the STS 74 astronauts now are

26

00:03:37,280 --> 00:03:34,530

leaving the suit off room headed for the

27

00:03:39,400 --> 00:03:37,290

elevator going from the third floor of

28

00:03:43,310 --> 00:03:39,410

the operations and check-out building

29

00:03:59,740 --> 00:03:43,320

down to the awaiting astronaut transfer

30

00:03:59,750 --> 00:04:39,850

Hey

31

00:04:46,420 --> 00:04:44,320

and in India oxpecker gym MMP looking

32

00:04:50,650 --> 00:04:46,430

know if you cleared launched top of that

33

00:04:52,390 --> 00:04:50,660

and Atlantis looks like we've got

34

00:04:54,280 --> 00:04:52,400

everything lined up ready for you guys

35

00:04:57,850 --> 00:04:54,290

to go so have a good mission and we'll

36

00:05:00,250 --> 00:04:57,860

see you back in about eight days yeah

37

00:05:02,530 --> 00:05:00,260

that's about service appreciate that

38

00:05:05,520 --> 00:05:02,540

an empty deal inspector you have a

39

00:05:18,180 --> 00:05:05,530

clearance log did he copy thank you

40

00:05:24,750 --> 00:05:21,930

and standing by now to gimble the main

41

00:05:29,310 --> 00:05:24,760

engines we see the speed break being

42

00:05:32,520 --> 00:05:29,320

cycled here and now the main engines are

43

00:05:56,080 --> 00:05:32,530

gambling or being moved through their

44

00:05:56,090 --> 00:06:02,409

do you - three minutes

45

00:06:02,419 --> 00:06:09,580

yellow sister for ETL Oh to preservation

46

00:06:09,590 --> 00:06:13,900

oxygen tank I'm being pressurized

47

00:06:18,860 --> 00:06:17,540

weather officer ed Priscilla just has

48

00:06:34,250 --> 00:06:18,870

passed the word that they are now

49

00:06:48,860 --> 00:06:39,090

and the gaseous oxygen vent hood was the

50

00:06:53,460 --> 00:06:50,879

ground launch sequencer will make a

51
00:06:55,080 --> 00:06:53,470
check at t-minus 37 seconds to make sure

52
00:07:06,420 --> 00:06:55,090
that it's in the fully retracted

53
00:07:14,040 --> 00:07:06,430
position looks like guitar have good

54
00:07:17,430 --> 00:07:14,050
play yeah let's go for ET la to persevere

55
00:07:19,890 --> 00:07:17,440
asia there was an orbiter test conductor

56
00:07:25,499 --> 00:07:19,900
Mikey of Lockheed Martin wishing the

57
00:07:33,770 --> 00:07:25,509
crew a good flight morning

58
00:07:45,590 --> 00:07:38,000
again 9 8 7 go for main engine start

59
00:07:47,270 --> 00:07:45,600
four three two one and liftoff of space

60
00:07:49,400 --> 00:07:47,280
shuttle Atlantis with the Russian

61
00:08:11,260 --> 00:07:49,410
docking module the threshold for world

62
00:08:20,270 --> 00:08:17,890
Atlantis go at throttle up Roger

63
00:08:24,830 --> 00:08:20,280

Atlantis three main engines are now back

64

00:08:26,960 --> 00:08:24,840
at full throttle planteth out to 12

65

00:08:30,010 --> 00:08:26,970
miles nine miles downrange from the

66

00:08:35,690 --> 00:08:30,020
launch pad Atlantis is now traveling

67

00:08:37,250 --> 00:08:35,700
2,400 miles per hour one minute 40

68

00:08:38,719 --> 00:08:37,260
seconds since launch Atlantis has

69

00:08:40,100 --> 00:08:38,729
already burned more than tuna quarter

70

00:08:48,970 --> 00:08:40,110
million pounds of propellant and weighs

71

00:08:52,509 --> 00:08:50,829
flight controllers are now standing by

72

00:09:06,560 --> 00:08:52,519
for burnouts in jettison and a twin

73

00:09:37,440 --> 00:09:09,560
whose job sir confirms a good separation

74

00:09:42,910 --> 00:09:41,770
and in India on trekker Jimmy I'm in

75

00:09:43,570 --> 00:09:42,920
peace looking though he says you're

76

00:09:48,730 --> 00:09:43,580

clear to launch

77

00:09:50,530 --> 00:09:48,740

top of that and lantus looks like we got

78

00:09:52,150 --> 00:09:50,540

everything lined up ready for you guys

79

00:09:53,710 --> 00:09:52,160

to go we'll have a good mission and

80

00:10:00,550 --> 00:09:53,720

we'll see you back here in about eight

81

00:10:03,330 --> 00:10:00,560

days an NPT contractor you have a

82

00:10:05,560 --> 00:10:03,340

clearance log and did he copy thank you

83

00:10:07,300 --> 00:10:05,570

and launch team we're gonna pick up the

84

00:10:10,800 --> 00:10:07,310

count here in approximately one minute

85

00:10:10,810 --> 00:10:21,079

25 20

86

00:10:21,089 --> 00:10:26,539

this

87

00:10:38,579 --> 00:10:32,309

he lets us go I mean it just start all

88

00:10:43,289 --> 00:10:38,589

vents open copy Vince p0f are the

89

00:11:28,079 --> 00:10:43,299

ignition let's toss confirmed copy

90

00:11:28,089 --> 00:11:36,150

they manage for tips

91

00:11:41,790 --> 00:11:39,810

go ahead Tory we sent one last test

92

00:11:46,320 --> 00:11:41,800

message if you could check that out for

93

00:11:49,380 --> 00:11:46,330

us okay I'm looking at the most recent

94

00:11:59,070 --> 00:11:49,390

warrant it's gray scales but some

95

00:11:59,080 --> 00:12:22,980

you

96

00:12:29,320 --> 00:12:26,470

we daily know like English I recording

97

00:12:32,550 --> 00:12:29,330

locally bill filled most of the deal

98

00:12:32,560 --> 00:12:44,860

and recording there is it going

99

00:12:44,870 --> 00:13:03,110

or

100

00:13:10,860 --> 00:13:06,090

thank you okay loud and clear how do you

101
00:13:14,760 --> 00:13:10,870
hear my dad this is kb5 AWP on the space

102
00:13:20,330 --> 00:13:14,770
shuttle Atlantis for golf sugar G 0 3

103
00:13:36,360 --> 00:13:23,340
in Russia so it's all worked out to be a

104
00:13:52,230 --> 00:13:40,090
well I understand so how's things going

105
00:14:04,470 --> 00:13:54,329
okay story you were stepped on say again

106
00:14:08,380 --> 00:14:06,790
okay you certainly been a big help to us

107
00:14:10,000 --> 00:14:08,390
we've written enjoyed working with you

108
00:14:19,560 --> 00:14:10,010
and we look forward to it throughout the

109
00:14:23,790 --> 00:14:21,150
surprisingly enough the body doesn't

110
00:14:36,950 --> 00:14:23,800
rest fit straight completely relaxed

111
00:14:49,070 --> 00:14:38,090
when you're sleeping this is the

112
00:15:31,820 --> 00:14:51,630
like somebody move the other flight data

113
00:15:31,830 --> 00:15:41,130

while we will fight

114

00:15:41,140 --> 00:15:45,420

well one 103

115

00:15:53,720 --> 00:15:48,600

and odious airline is a little too

116

00:15:53,730 --> 00:16:10,950

you

117

00:16:10,960 --> 00:16:30,990

Spock shows E

118

00:17:56,029 --> 00:16:33,960

hey Bill I'm starting to peel it based

119

00:18:08,149 --> 00:18:06,109

this is my child one more minute we sit

120

00:20:22,640 --> 00:18:08,159

up this one should have the same

121

00:20:30,530 --> 00:20:25,820

you

122

00:20:35,030 --> 00:20:30,540

listen up we're doing SM checkpoint

123

00:20:39,500 --> 00:20:35,040

initiates and analog reset copy all

124

00:20:41,630 --> 00:20:39,510

Gerry and heads up the message 16 the OS

125

00:20:45,050 --> 00:20:41,640

vs troubleshooting should be on board

126
00:20:47,330 --> 00:20:45,060
it's about a 10-minute procedure and you

127
00:20:49,610 --> 00:20:47,340
can perform it or any of you can perform

128
00:21:08,250 --> 00:20:49,620
it at your discretion when you get a

129
00:21:13,330 --> 00:21:11,980
Atlantis Houston good morning time to

130
00:21:16,000 --> 00:21:13,340
wake up and do the right stuff today

131
00:21:21,570 --> 00:21:16,010
with that docking module we'll have you

132
00:21:25,899 --> 00:21:24,070
yes Tim thank you very much for that

133
00:21:28,330 --> 00:21:25,909
inspirational music we're ready to

134
00:21:29,889 --> 00:21:28,340
answer the call and now you timed it

135
00:22:14,210 --> 00:21:29,899
perfectly we were just coming into a

136
00:22:14,220 --> 00:22:23,740
a rock-solid track oh yeah

137
00:22:30,280 --> 00:22:26,300
just because it's not so close and

138
00:22:30,290 --> 00:22:33,620

beautiful lipid

139

00:22:33,630 --> 00:22:37,770

we have direct sunlight

140

00:22:37,780 --> 00:23:38,529

okay we're fine at the end yes

141

00:23:38,539 --> 00:23:54,330

Lily time

142

00:24:00,870 --> 00:23:56,950

okay you said we have OSDs data and

143

00:24:00,880 --> 00:24:28,140

copy lands

144

00:24:35,440 --> 00:24:32,800

and so it looks like we just sold a pool

145

00:24:37,900 --> 00:24:35,450

I think the Lighting's got a common

146

00:24:41,380 --> 00:24:37,910

problem - the targets - at four here

147

00:24:46,870 --> 00:24:41,390

surely we concur sir we make it a

148

00:25:24,380 --> 00:24:46,880

press-on with VM insulation that's it

149

00:26:12,420 --> 00:25:27,649

you see we have capture that's very

150

00:26:21,810 --> 00:26:15,030

in before we lose you we are also ready

151
00:26:23,070 --> 00:26:21,820
for our immense on grapple okay and do

152
00:26:24,840 --> 00:26:23,080
we have a go at all those activities

153
00:26:33,780 --> 00:26:24,850
during the alos if you want to wait on

154
00:26:42,560 --> 00:26:33,790
the other side you can press on and land

155
00:27:16,250 --> 00:26:42,570
us for the amp station grad channel a7l

156
00:27:20,520 --> 00:27:18,600
you see we have the docking module

157
00:27:24,840 --> 00:27:20,530
camera downlink could take it whenever

158
00:27:32,909 --> 00:27:27,720
hello Chris we have a good image up in

159
00:27:41,220 --> 00:27:32,919
the docking module it's like a fun place

160
00:27:42,509 --> 00:27:41,230
to enjoy yourself in zero-gravity yeah I

161
00:27:44,159 --> 00:27:42,519
don't think it'll be on three four long

162
00:28:21,670 --> 00:27:44,169
days but it's a nice bit of space right

163
00:28:25,870 --> 00:28:23,410

we've been looking at it with the

164

00:28:28,210 --> 00:28:25,880

binoculars and actually we're quite

165

00:28:30,550 --> 00:28:28,220

impressed that we can rule to actually

166

00:28:32,200 --> 00:28:30,560

see the flashing light considering that

167

00:28:35,250 --> 00:28:32,210

most of that light has to be bounced

168

00:28:37,810 --> 00:28:35,260

from the Sun pretty impressive flasher

169

00:29:21,940 --> 00:28:37,820

in our TV picture we can still see the

170

00:29:28,909 --> 00:29:24,320

still show a little bit outside I'm

171

00:29:33,360 --> 00:29:28,919

gonna get a long time point oh five I'm

172

00:29:38,400 --> 00:29:36,030

okay I'll get you a new rape well you

173

00:29:40,920 --> 00:29:38,410

can feel the great full vehicle that is

174

00:29:43,080 --> 00:29:40,930

good see what that when it computes that

175

00:30:34,850 --> 00:29:43,090

out yeah that nudges it's just up in

176
00:30:57,590 --> 00:30:40,500
I'm happy we have one correction call

177
00:31:02,770 --> 00:31:00,379
we're closing that first effect we're

178
00:31:10,060 --> 00:31:04,750
you push it against the window and hold

179
00:31:16,060 --> 00:31:13,390
I like to try it tools so forth how we

180
00:31:21,870 --> 00:31:16,070
doing good I need to give you a close

181
00:31:29,470 --> 00:31:27,730
for approach on time okay we go kid okay

182
00:31:32,279 --> 00:31:29,480
you might need a closing phone first and

183
00:31:35,590 --> 00:31:32,289
we're like it was something seven and

184
00:31:41,350 --> 00:31:35,600
you might do one to know and one to

185
00:31:43,360 --> 00:31:41,360
close the MIR Space Station is now in

186
00:31:46,600 --> 00:31:43,370
its equivalent of free drift meaning the

187
00:31:49,149 --> 00:31:46,610
station is inhibited from having any

188
00:31:56,889 --> 00:31:49,159

movements during the final phases of the

189

00:32:05,039 --> 00:31:56,899

rendezvous and docking Atlantis is now

190

00:32:13,510 --> 00:32:09,519

slowing the approach to station keep at

191

00:32:15,760 --> 00:32:13,520

a distance of about thirty feet before

192

00:32:25,870 --> 00:32:15,770

commander Ken camera will initiate the

193

00:32:35,440 --> 00:32:25,880

final approach and docking discretion

194

00:32:40,910 --> 00:32:38,240

35 feet now below the space station

195

00:32:45,350 --> 00:32:40,920

commander Ken Cameron will be slowing

196

00:33:06,590 --> 00:32:45,360

the descent or the initial response or

197

00:33:06,600 --> 00:33:12,520

two feet

198

00:33:12,530 --> 00:33:16,730

25 seconds

199

00:33:16,740 --> 00:33:20,810

okay we have overlap

200

00:33:44,529 --> 00:33:28,840

oh six eight inches one or point 0.06

201
00:33:49,039 --> 00:33:46,940
less than two minutes from docking

202
00:33:51,830 --> 00:33:49,049
Atlantis is now eight feet from the

203
00:34:31,190 --> 00:33:51,840
space station closing at a rate of 0.7

204
00:34:31,200 --> 00:34:54,580
five feet from docking

205
00:35:28,060 --> 00:34:57,530
four feet in less than one minute from

206
00:35:40,300 --> 00:35:36,310
the food that I did with the fellas in

207
00:35:53,320 --> 00:35:40,310
the cutter it is in your circle contact

208
00:35:56,920 --> 00:35:53,330
capture capture confirmed initial value

209
00:35:58,870 --> 00:35:56,930
of Iranian capture is confirmed

210
00:36:08,590 --> 00:35:58,880
Atlantis is now docked with the Russian

211
00:36:23,170 --> 00:36:08,600
space station in the country the next

212
00:36:27,860 --> 00:36:25,820
okay if this thing turns around such as

213
00:36:30,260 --> 00:36:27,870

the earth is back behind this for a

214

00:36:33,020 --> 00:36:30,270

camera see linear I shall ring driving

215

00:36:36,260 --> 00:36:33,030

up drive command is on face is moving

216

00:36:40,680 --> 00:36:36,270

out lost my initial position I'm pushing

217

00:36:47,579 --> 00:36:43,980

drive command is off Jerry we have the

218

00:37:03,030 --> 00:36:47,589

tethers attach the look how close that

219

00:37:03,040 --> 00:37:20,400

nice teamwork

220

00:41:04,870 --> 00:37:25,950

William the contour the next step is to

221

00:41:04,880 --> 00:41:19,520

Christa Xena will be the perfect place

222

00:41:31,950 --> 00:41:29,610

project in stellatus familiar to check

223

00:41:38,820 --> 00:41:31,960

the temperature if you wanna bury so

224

00:41:40,920 --> 00:41:38,830

good a smoke and story I've already got

225

00:41:42,890 --> 00:41:40,930

it sound like to you I don't see a line

226

00:41:48,390 --> 00:41:42,900

and it is a book okay to you

227

00:42:02,820 --> 00:41:48,400

it's a great picture very good

228

00:42:04,590 --> 00:42:02,830

we're going to the MIR module you got

229

00:42:47,320 --> 00:42:04,600

the harder task trying to go backwards

230

00:42:47,330 --> 00:43:01,790

you're upside down again

231

00:43:01,800 --> 00:43:05,680

get out of here

232

00:43:05,690 --> 00:43:26,740

hey let's take that thing out of the box

233

00:43:34,660 --> 00:43:31,470

this is Malika school is symbolic plaque

234

00:43:41,380 --> 00:43:34,670

of the International Space Station and

235

00:43:46,210 --> 00:43:41,390

of Mir and shuttle there is blooms of

236

00:43:48,280 --> 00:43:46,220

NASA the Russians Space Agency ESA and

237

00:43:55,330 --> 00:43:48,290

Canada

238

00:44:00,880 --> 00:43:58,750

but greatly great thank you very much

239

00:44:04,540 --> 00:44:00,890

and thanks to the crew the shuttle this

240

00:44:07,780 --> 00:44:04,550

is a very beautiful and memorable gift

241

00:44:09,640 --> 00:44:07,790

it will absolutely remind us of our

242

00:44:13,240 --> 00:44:09,650

joint work and our training for this

243

00:44:23,230 --> 00:44:13,250

flight and we will treasure with great

244

00:44:30,490 --> 00:44:28,510

I miss Jenny document the unofficial

245

00:44:38,140 --> 00:44:30,500

dementia document via official

246

00:44:56,390 --> 00:44:38,150

documentation from NASA and the first

247

00:45:12,080 --> 00:44:59,850

during these special plaques have flown

248

00:46:00,190 --> 00:45:12,090

already it's written the crew of mere 18

249

00:46:06,200 --> 00:46:03,770

Houston Atlantis complex has we've come

250

00:46:08,060 --> 00:46:06,210

to the end of what I think has been most

251
00:46:10,040 --> 00:46:08,070
successful mission I could have possibly

252
00:46:12,680 --> 00:46:10,050
imagined we've worked together extremely

253
00:46:15,079 --> 00:46:12,690
well at a great launch rendezvous and

254
00:46:17,720 --> 00:46:15,089
docking and the chance to see the

255
00:46:20,660 --> 00:46:17,730
station mirror to turn around incited

256
00:46:22,640 --> 00:46:20,670
exchanging cargo nothing experiments and

257
00:46:24,950 --> 00:46:22,650
most of all seeing and working with

258
00:46:27,920 --> 00:46:24,960
friends has been an experience that none

259
00:46:31,550 --> 00:46:27,930
of us will ever forget

260
00:46:33,859 --> 00:46:31,560
really Sergey in Dallas it has been

261
00:46:36,950 --> 00:46:33,869
wonderful to see you again

262
00:46:39,530 --> 00:46:36,960
to work with you and fly with you the

263
00:46:41,870 --> 00:46:39,540

Russians I think it's most difficult to

264

00:46:44,870 --> 00:46:41,880

say goodbye and the Russians have a much

265

00:46:47,390 --> 00:46:44,880

better expression which is dr. Danya

266

00:46:57,859 --> 00:46:47,400

until we so we see each other again

267

00:46:59,810 --> 00:46:57,869

he even better score a stretcher so that

268

00:47:54,150 --> 00:46:59,820

we see you and me again soon after the

269

00:47:54,160 --> 00:48:15,079

for that

270

00:48:15,089 --> 00:48:19,359

okay

271

00:48:48,450 --> 00:48:21,440

I'll be looking for someone to watch the

272

00:48:53,280 --> 00:48:50,690

looks beautiful

273

00:48:55,680 --> 00:48:53,290

okay I call that two seconds

274

00:49:59,279 --> 00:48:55,690

commercial petals free executing opening

275

00:49:59,289 --> 00:50:16,620

good on the Atlantis the dollar size

276

00:50:21,849 --> 00:50:19,059

Russian interface officer is notifying

277

00:50:24,180 --> 00:50:21,859

the Mission Control in Kaliningrad that

278

00:50:27,670 --> 00:50:24,190

the orbiter is outside of 50 feet

279

00:50:29,440 --> 00:50:27,680

meaning the MIR crew can go back to

280

00:50:34,089 --> 00:50:29,450

attitude control now on the space

281

00:50:37,479 --> 00:50:34,099

station current distance is a hundred

282

00:50:45,579 --> 00:50:37,489

and four feet opening at a rate of 0.37

283

00:50:47,620 --> 00:50:45,589

or three tenths of a foot per second Mir

284

00:52:19,700 --> 00:50:47,630

has now been commanded back to attitude

285

00:52:32,490 --> 00:52:22,109

storage your paddle Ricardo do you want

286

00:52:45,930 --> 00:52:34,680

we're going to change our minds and take

287

00:53:57,660 --> 00:52:45,940

this it's irresistible well you know

288

00:53:57,670 --> 00:56:23,500

you

289

00:56:29,760 --> 00:56:26,560

Lanice is traveling 550 miles per hour

290

00:56:32,380 --> 00:56:29,770

approaching the heading alignment circle

291

00:56:34,660 --> 00:56:32,390

an imaginary circle around which

292

00:56:37,680 --> 00:56:34,670

commander Ken Cameron will fly Atlantis

293

00:56:39,790 --> 00:56:37,690

and set up for the final approach

294

00:56:41,260 --> 00:56:39,800

commander Kenton Cameron now flying

295

00:56:44,620 --> 00:56:41,270

Atlantis around the heading alignment

296

00:56:50,950 --> 00:56:44,630

circle Atlantis on at the 90 looking

297

00:57:00,460 --> 00:56:50,960

good pre-flare maneuver underway

298

00:57:21,340 --> 00:57:03,460

hila Jim wholesale deploying the landing

299

00:57:31,390 --> 00:57:26,440

main gear touchdown Jim Hall cell will

300

00:57:36,360 --> 00:57:33,990

and nose gear touchdown

301
00:57:37,640 --> 00:57:36,370
atlantis is rolling out on runway three

302
00:57:41,150 --> 00:57:37,650
three at the Kennedy Space Center

303
00:57:44,280 --> 00:57:41,160
completing 129 orbits of the earth and

304
00:57:46,920 --> 00:57:44,290
3.4 million miles the fifth straight

305
00:57:50,580 --> 00:57:46,930
landing of the orbiter at the Kennedy

306
00:57:51,870 --> 00:57:50,590
Space Center and the 27th landing at the

307
00:58:20,440 --> 00:57:51,880
Kennedy Space Center in the shuttle

308
00:58:27,640 --> 00:58:24,920
whilst artisan Roger Atlantis will stop

309
00:58:31,130 --> 00:58:27,650
Dubrow pooja Lovato Bratton as M blew

310
00:58:39,170 --> 00:58:31,140
him we positively emboss suspicions him

311
00:58:58,840 --> 00:58:39,180
open Channing paliotta great job copy

312
00:59:06,040 --> 00:59:01,960
we'll stop usin okay post-landing deltas

313
00:59:10,030 --> 00:59:06,050

or atlantis will stop Abravanel knew he

314

00:59:14,080 --> 00:59:10,040

come in we got the Russians open to