



1
00:00:11,990 --> 00:00:04,820
we now have downlink from space shuttle

2
00:00:14,180 --> 00:00:12,000
Atlantis there you can see the entire

3
00:00:16,849 --> 00:00:14,190
international space station complex

4
00:00:18,470 --> 00:00:16,859
there if you look at the top Atlanta is

5
00:00:48,350 --> 00:00:18,480
currently casting a shadow on the solar

6
00:00:56,060 --> 00:00:50,840
the team here confirming that the fly

7
00:00:58,160 --> 00:00:56,070
around has begun sts-132 pilot tony

8
00:01:02,270 --> 00:00:58,170
antonelli now at the controls from

9
00:01:05,090 --> 00:01:02,280
Atlantis's flight deck he will begin to

10
00:01:06,770 --> 00:01:05,100
fly atlantis around the entire circle of

11
00:01:09,350 --> 00:01:06,780
the International Space Station the two

12
00:01:11,930 --> 00:01:09,360
vehicles are currently out over the

13
00:01:13,790 --> 00:01:11,940

Pacific Ocean they are bearing down on

14

00:01:16,040 --> 00:01:13,800
the western edge of Mexico here in a few

15

00:02:04,620 --> 00:01:16,050
minutes and he'll be crossing over North

16

00:02:09,300 --> 00:02:06,149
shuttle Atlantis in the International

17

00:02:15,690 --> 00:02:09,310
Space Station there staring each other

18

00:02:17,729 --> 00:02:15,700
down at a distance of 458 feet once

19

00:02:19,530 --> 00:02:17,739
again pilot tony antonelli at the

20

00:02:22,710 --> 00:02:19,540
controls of atlantis beginning this fly

21

00:02:25,680 --> 00:02:22,720
around procedure the first rays of

22

00:02:27,870 --> 00:02:25,690
sunshine they're hitting the upper

23

00:02:29,339 --> 00:02:27,880
atmosphere of the earth as the station

24

00:02:47,780 --> 00:02:29,349
in a shallower out over the Pacific

25

00:02:55,720 --> 00:02:48,979
very closely you can see some of the

26

00:02:59,750 --> 00:02:55,730

Jets at the back of Atlantis firing if

27

00:03:02,990 --> 00:02:59,760

this sts-132 fly does indeed turn out to

28

00:03:04,640 --> 00:03:03,000

be Atlantis's final mission this will be

29

00:03:08,030 --> 00:03:04,650

the last time we actually get to see a

30

00:06:07,090 --> 00:03:08,040

full shot of the shuttle up in space

31

00:06:12,820 --> 00:06:10,030

the shuttles now 506 feet away from the

32

00:06:15,490 --> 00:06:12,830

International Space Station this fly

33

00:06:18,750 --> 00:06:15,500

around is continuing with sts-132 pilot

34

00:06:29,879 --> 00:06:18,760

tony antonelli at the controls

35

00:06:37,360 --> 00:06:34,990

antonelli is a flying Atlantis up over

36

00:06:41,500 --> 00:06:37,370

the first quadrant of this entire circle

37

00:06:46,710 --> 00:06:41,510

that's he will steer Atlantis he's

38

00:06:50,890 --> 00:06:49,030

it's a view from inside Atlantis's

39

00:06:53,170 --> 00:06:50,900

orbiter docking system looking back at

40

00:06:56,400 --> 00:06:53,180

at the former home of the shuttle

41

00:06:58,780 --> 00:06:56,410

pressurized mating adapter number two

42

00:07:00,219 --> 00:06:58,790

there on the left you can see the

43

00:07:02,710 --> 00:07:00,229

Columbus laboratory there on the right

44

00:07:09,760 --> 00:07:02,720

very obvious is the Kibo laboratory with

45

00:07:11,860 --> 00:07:09,770

its Logistics Module up on top this view

46

00:07:13,420 --> 00:07:11,870

of Atlantis with its open payload bay

47

00:07:15,580 --> 00:07:13,430

doors down inside is the integrated

48

00:07:17,710 --> 00:07:15,590

cargo carrier the only piece that

49

00:07:19,570 --> 00:07:17,720

Atlantis is bringing back home the old

50

00:07:21,790 --> 00:07:19,580

batteries at the crew swapped out during

51
00:07:25,420 --> 00:07:21,800
two of the spacewalks of this mission

52
00:07:27,100 --> 00:07:25,430
are on the back side of it the robotic

53
00:07:29,320 --> 00:07:27,110
arm their extended out over Atlantis's

54
00:07:31,689 --> 00:07:29,330
left side with the orbiter boom sensor

55
00:07:34,690 --> 00:07:31,699
system still attached to a cross back

56
00:07:34,700 --> 00:07:44,690
you

57
00:07:48,290 --> 00:07:46,850
epic ocean down underneath both atlantis

58
00:07:52,450 --> 00:07:48,300
and the station at this point in time

59
00:07:54,620 --> 00:07:52,460
the two vehicles are 212 miles

60
00:07:56,180 --> 00:07:54,630
continuing to pass to the northeast

61
00:08:00,030 --> 00:07:56,190
they're approaching the western edge of

62
00:08:00,040 --> 00:09:43,180
you

63
00:09:47,860 --> 00:09:45,220

land is now 550 feet away from the

64

00:09:52,690 --> 00:09:47,870

station continuing to rise above the

65

00:09:54,070 --> 00:09:52,700

u.s. segment you can see all the modules

66

00:09:55,660 --> 00:09:54,080

there at the forward portion the

67

00:09:58,210 --> 00:09:55,670

Columbus on the Left Kibo on the Rights

68

00:10:00,580 --> 00:09:58,220

harmony there in the middle moving

69

00:10:03,190 --> 00:10:00,590

backward is destiny unity there where

70

00:10:04,540 --> 00:10:03,200

the trust structure crosses over and you

71

00:10:10,100 --> 00:10:04,550

can also see the Russian segment there

72

00:10:15,510 --> 00:10:12,420

getting our first view is now of the

73

00:10:19,530 --> 00:10:15,520

Soyuz TMA 18 which is mounted back there

74

00:10:21,120 --> 00:10:19,540

on the poisk a docking compartment there

75

00:10:24,900 --> 00:10:21,130

at the back you can also see the Soyuz

76

00:10:26,460 --> 00:10:24,910

TMA is 17 that is the one that is due to

77

00:10:29,190 --> 00:10:26,470

come back home to earth coming up on

78

00:10:34,570 --> 00:10:31,750

expedition 23 flight engineer TJ creamer

79

00:10:36,240 --> 00:10:34,580

sweetie noguchi and expedition 23

80

00:10:38,500 --> 00:10:36,250

commander Oleg Kotov will crawl inside

81

00:10:43,060 --> 00:10:38,510

that vehicle which brought them up to

82

00:10:50,620 --> 00:10:43,070

the station about six months ago go

83

00:10:54,910 --> 00:10:50,630

ahead hot tottie outside of it dude

84

00:10:58,300 --> 00:10:54,920

there's no windows in here it was clear

85

00:10:59,860 --> 00:10:58,310

this morning ask whether something's if

86

00:11:03,700 --> 00:10:59,870

we're gonna fly out of her head we like

87

00:11:26,129 --> 00:11:03,710

it's pretty awesome picture we'll see

88

00:11:31,030 --> 00:11:29,590

and I want for downlink cameras we're

89

00:11:32,139 --> 00:11:31,040

looking at the center line camera right

90

00:11:33,759 --> 00:11:32,149

now we're wondering if one of the

91

00:11:52,569 --> 00:11:33,769

payload Bay cameras might have a better

92

00:11:57,259 --> 00:11:55,220

we begin with here without getting in

93

00:12:01,309 --> 00:11:57,269

this airline will tell you there that's

94

00:12:02,780 --> 00:12:01,319

better okay maxima they go whatever

95

00:12:04,429 --> 00:12:02,790

you're sending us now is much better

96

00:12:08,449 --> 00:12:04,439

thank you very much and the weather

97

00:12:10,280 --> 00:12:08,459

report there you go Shelby I'm sorry I

98

00:12:28,860 --> 00:12:10,290

said that he said for everybody that's

99

00:12:38,490 --> 00:12:32,400

a line is now 587 feet away from the

100

00:12:41,310 --> 00:12:38,500

station almost directly above it you can

101
00:12:45,320 --> 00:12:41,320
see very clearly the entire 357 feet

102
00:12:47,550 --> 00:12:45,330
wingspan of the station's solar arrays

103
00:12:50,460 --> 00:12:47,560
you can see the radiator is there on

104
00:12:51,810 --> 00:12:50,470
either side pointing back toward and

105
00:12:54,210 --> 00:12:51,820
running parallel to the Russian segment

106
00:12:56,930 --> 00:12:54,220
and as we mentioned looking almost

107
00:12:59,910 --> 00:12:56,940
directly down on the Soyuz TMA 18 and

108
00:13:03,829 --> 00:12:59,920
you can see the Soyuz TMA 17 back there

109
00:13:07,530 --> 00:13:03,839
at the back of the Zvezda service module

110
00:13:09,570 --> 00:13:07,540
the two vehicles 212 miles above the

111
00:13:13,019 --> 00:13:09,580
Pacific Ocean approaching the western

112
00:13:16,140 --> 00:13:13,029
edge of Mexico it'll be going just to

113
00:13:20,460 --> 00:13:16,150

the north of Monterey and then crossing

114

00:13:24,360 --> 00:13:20,470

the border between Mexico and Texas just

115

00:13:28,040 --> 00:13:24,370

to the northwest of Laredo will be

116

00:13:31,280 --> 00:13:28,050

making almost a direct cross from the

117

00:13:33,900 --> 00:13:31,290

southwest to the northeast across Texas

118

00:13:37,800 --> 00:13:33,910

just to the west of San Antonio over the

119

00:13:41,130 --> 00:13:37,810

Texas Hill Country and then directly in

120

00:13:46,519 --> 00:13:41,140

between Dallas and Tyler over interstate

121

00:13:52,260 --> 00:13:48,990

line is now outside of 600 feet away

122

00:13:55,470 --> 00:13:52,270

from the station this 360 degree

123

00:15:20,060 --> 00:13:55,480

maneuver with sts-132 pilot tony

124

00:15:25,100 --> 00:15:22,370

this is Mission Control Houston western

125

00:15:28,160 --> 00:15:25,110

edge of Mexico coming into view now the

126

00:15:29,540 --> 00:15:28,170

station in a shuttle 213 miles above the

127

00:15:35,810 --> 00:15:29,550

earth they're passing directly in

128

00:15:39,260 --> 00:15:35,820

between mazatlan and Puerto varda it's a

129

00:15:44,000 --> 00:15:39,270

fairly cloudless day there on the coast

130

00:15:46,190 --> 00:15:44,010

of Mexico the two vehicles continuing to

131

00:17:24,949 --> 00:15:46,200

pass to the northeast they're heading

132

00:17:33,409 --> 00:17:27,620

and land us now 650 feet away from the

133

00:17:39,169 --> 00:17:33,419

station yeah shuttle passing over the

134

00:17:44,990 --> 00:17:39,179

Russians segment the two spacecraft just

135

00:17:47,659 --> 00:17:45,000

crossing the edge of Texas passing over

136

00:17:52,460 --> 00:17:47,669

the cities of uvalde kerrville

137

00:17:54,620 --> 00:17:52,470

Fredericksburg Killeen it'll go over

138

00:17:57,649 --> 00:17:54,630

corsicana right there on interstate 45

139

00:19:36,960 --> 00:17:57,659

and then cross right in the middle of

140

00:19:41,640 --> 00:19:39,659

now 684 feet away from the station

141

00:19:44,190 --> 00:19:41,650

atlanta is continuing to perform this

142

00:19:46,799 --> 00:19:44,200

fly around maneuver with sts-132 pilot

143

00:19:52,020 --> 00:19:46,809

tony antonelli at the controls from the

144

00:19:55,409 --> 00:19:52,030

flight deck the two spacecraft just

145

00:19:57,120 --> 00:19:55,419

passing from texas into arkansas going

146

00:20:03,960 --> 00:19:57,130

over a hot spring is at this point in

147

00:20:07,200 --> 00:20:03,970

time they will across the very south

148

00:20:09,659 --> 00:20:07,210

eastern tip of missouri and then head

149

00:20:44,280 --> 00:20:09,669

over parts of a kentucky and then into

150

00:20:44,290 --> 00:21:41,010

can I call it mud

151
00:21:43,950 --> 00:21:42,510
this view from onboard the International

152
00:21:48,240 --> 00:21:43,960
Space Station that is part of the mobile

153
00:21:49,770 --> 00:21:48,250
base system the communications and

154
00:21:51,420 --> 00:21:49,780
tracking officers here inside Mission

155
00:21:52,920 --> 00:21:51,430
Control are attempting to steer the

156
00:21:56,310 --> 00:21:52,930
cameras around a bit to see if they can

157
00:21:58,800 --> 00:21:56,320
capture Atlantis the shuttle currently

158
00:22:00,870 --> 00:21:58,810
over the Russian segment approaching the

159
00:23:07,670 --> 00:22:00,880
Zvezda service module coming up in just

160
00:23:12,320 --> 00:23:09,740
once again this is sequential still

161
00:23:14,630 --> 00:23:12,330
video from Atlantis this is what we get

162
00:23:16,730 --> 00:23:14,640
when we don't have high data rate

163
00:23:17,870 --> 00:23:16,740

communication with the shuttle so you

164

00:23:23,180 --> 00:23:17,880

will see the image change every few

165

00:23:28,520 --> 00:23:23,190

seconds Atlantis now 693 feet away from

166

00:23:30,170 --> 00:23:28,530

the station giving a very close to being

167

00:23:32,900 --> 00:23:30,180

lined up with a very back end of this

168

00:23:38,180 --> 00:23:32,910

vessel service module and the Soyuz TMA

169

00:23:43,730 --> 00:23:38,190

17 that is currently docked there she's

170

00:23:51,530 --> 00:23:43,740

consumption on 24 ctgf stove go ahead

171

00:23:53,960 --> 00:23:51,540

drizzy please my love this is a nice job

172

00:23:58,400 --> 00:23:53,970

wrapping up this pgf for the procedure

173

00:24:02,570 --> 00:23:58,410

and as he's winding bubble wrap around

174

00:24:06,160 --> 00:24:02,580

the pin maybe wonder where the actual

175

00:24:08,180 --> 00:24:06,170

cover is for the pin is will the night

176

00:24:10,190 --> 00:24:08,190

practices in the film anything is

177

00:24:13,190 --> 00:24:10,200

carrying this out there was a protective

178

00:24:16,760 --> 00:24:13,200

hard shell a clamshell cover that went

179

00:24:18,200 --> 00:24:16,770

over this pin to protect it and it's my

180

00:24:20,450 --> 00:24:18,210

understanding that it's actually here on

181

00:24:22,220 --> 00:24:20,460

board somewhere and we were going to

182

00:24:24,740 --> 00:24:22,230

install it prior to going out the door

183

00:24:26,810 --> 00:24:24,750

and wondered why we're not finding that

184

00:24:29,900 --> 00:24:26,820

and installing it instead of trying to

185

00:24:31,700 --> 00:24:29,910

tapes couple wrap around it this is

186

00:24:33,830 --> 00:24:31,710

Mission Control Houston Atlantis now

187

00:24:38,000 --> 00:24:33,840

crossing the 700 feet mark away from the

188

00:24:44,450 --> 00:24:38,010

station there you see his current

189

00:24:46,370 --> 00:24:44,460

position it is about to pull around the

190

00:24:49,070 --> 00:24:46,380

back end of the zip ESDA service module

191

00:24:51,380 --> 00:24:49,080

and then it continued down below the

192

00:24:52,940 --> 00:24:51,390

Russian segment at that point the crew

193

00:24:55,730 --> 00:24:52,950

will get their first views of the

194

00:24:58,270 --> 00:24:55,740

progress 37 that is currently docked

195

00:25:01,820 --> 00:24:58,280

with the piers docking compartment as

196

00:26:27,060 --> 00:25:01,830

well as the newly installed zaria via

197

00:26:31,799 --> 00:26:28,499

and land is now almost directly in line

198

00:26:34,019 --> 00:26:31,809

with the Russian segment the apt most

199

00:26:39,570 --> 00:26:34,029

portion of it the International Space

200

00:26:41,460 --> 00:26:39,580

Station the distance now 638 feet the

201

00:26:44,850 --> 00:26:41,470

crew on board Atlanta is continuing to

202

00:26:46,950 --> 00:26:44,860

take some photos of the entire complex

203

00:26:54,090 --> 00:26:46,960

as they get a one-of-a-kind view during

204

00:26:55,919 --> 00:26:54,100

a sly around after this fly around is

205

00:26:57,509 --> 00:26:55,929

complete Atlantis will complete a series

206

00:26:59,610 --> 00:26:57,519

of separation maneuvers that will take

207

00:27:02,039 --> 00:26:59,620

it away from the vicinity of the station