



1  
00:01:12,180 --> 00:01:08,670  
happy birthday daddy I love you happy

2  
00:01:14,900 --> 00:01:12,190  
birthday dad love you happy birthday dad

3  
00:01:17,610 --> 00:01:14,910  
you're the big four oh now love you

4  
00:01:18,450 --> 00:01:17,620  
happy birthday Charlie I love you have a

5  
00:01:32,690 --> 00:01:18,460  
good time

6  
00:02:33,490 --> 00:02:19,510  
you

7  
00:02:33,500 --> 00:02:46,300  
nom Rodinia charlie

8  
00:03:05,120 --> 00:02:50,600  
to my family thanks to old a client did

9  
00:03:08,120 --> 00:03:05,130  
have a birthday in space we have a

10  
00:03:09,830 --> 00:03:08,130  
charlie and that is just spectacular we

11  
00:03:15,680 --> 00:03:09,840  
see the station clearly through the

12  
00:03:17,570 --> 00:03:15,690  
pedals of the docking ring at the top of

13  
00:03:27,260 --> 00:03:17,580

the MIR Space Station is the Soyuz

14

00:03:31,880 --> 00:03:27,270

capsule used by Gabby at the top of the

15

00:03:33,350 --> 00:03:31,890

space station is the Soyuz capsule we

16

00:03:46,320 --> 00:03:33,360

have a beautiful picture we see is

17

00:03:51,070 --> 00:03:48,820

this split-screen view now on the left

18

00:03:53,290 --> 00:03:51,080

side showing the extended docking ring

19

00:03:56,560 --> 00:03:53,300

abort above the orbiter docking system

20

00:03:58,300 --> 00:03:56,570

and the right-hand view again showing

21

00:04:01,000 --> 00:03:58,310

the centreline camera view from the

22

00:04:03,550 --> 00:04:01,010

orbiter docking system as it looks at

23

00:04:11,020 --> 00:04:03,560

the blinking lights along the crystal

24

00:04:12,970 --> 00:04:11,030

modules docking port this is Mission

25

00:04:14,740 --> 00:04:12,980

Control Houston has the shuttle Atlantis

26  
00:04:16,750 --> 00:04:14,750  
and the MIR space station pass across

27  
00:04:18,820 --> 00:04:16,760  
the southern tip of South America our

28  
00:04:20,470 --> 00:04:18,830  
first views of the shuttle has taken

29  
00:04:22,900 --> 00:04:20,480  
from the mirror and relayed to the

30  
00:04:44,200 --> 00:04:22,910  
United States we have video from the MIR

31  
00:04:52,210 --> 00:04:44,210  
spacecraft looking at you that's right

32  
00:04:54,159 --> 00:04:52,220  
we won't have it for a while Atlantis is

33  
00:05:21,409 --> 00:04:54,169  
currently passing over Tierra del Fuego

34  
00:05:25,860 --> 00:05:24,450  
u.s. astronaut norm thagard is manning

35  
00:05:52,129 --> 00:05:25,870  
the camera here providing this

36  
00:05:54,719 --> 00:05:52,139  
television view again Atlantis will stop

37  
00:05:56,459 --> 00:05:54,729  
at it at a point thirty feet from the

38  
00:05:58,679 --> 00:05:56,469

MIR space station for five additional

39

00:06:01,320 --> 00:05:58,689

minutes of station keeping at which

40

00:06:02,850 --> 00:06:01,330

point flight director Bob castle here in

41

00:06:05,700 --> 00:06:02,860

Houston and Russian flight director

42

00:06:08,550 --> 00:06:05,710

Victor blog off in Kaliningrad will take

43

00:06:11,010 --> 00:06:08,560

one final assessment of the status of

44

00:06:12,600 --> 00:06:11,020

their two vehicles before proceeding on

45

00:06:29,260 --> 00:06:12,610

for the docking which is now less than

46

00:06:33,410 --> 00:06:31,370

Atlantis about two minutes away from

47

00:06:35,660 --> 00:06:33,420

reinitiating its final approach to the

48

00:07:19,809 --> 00:06:35,670

MIR Space Station time to docking less

49

00:07:23,899 --> 00:07:21,799

this picture of the orbiter docking

50

00:07:25,429 --> 00:07:23,909

system it is ready for contact and

51  
00:07:36,019 --> 00:07:25,439  
capture with the Christelle modules

52  
00:07:37,429 --> 00:07:36,029  
docking mechanism in this television now

53  
00:07:41,540 --> 00:07:37,439  
from the shuttle Atlantis showing a

54  
00:07:43,579 --> 00:07:41,550  
split screen on the left side the

55  
00:07:45,049 --> 00:07:43,589  
orbiter docking systems docking ring at

56  
00:07:49,909 --> 00:07:45,059  
the bottom of the picture at the top is

57  
00:07:51,649 --> 00:07:49,919  
the crystal modules docking port the

58  
00:07:53,389 --> 00:07:51,659  
picture on the right side shows the

59  
00:08:04,339 --> 00:07:53,399  
centreline camera view out of the

60  
00:08:05,809 --> 00:08:04,349  
orbiter docking system Atlantis 16 feet

61  
00:08:45,790 --> 00:08:05,819  
from the mirror time to docking 2

62  
00:08:50,120 --> 00:08:48,140  
this picture now from the MIR Space

63  
00:08:54,340 --> 00:08:50,130

Station showing the approach of the two

64

00:09:17,510 --> 00:08:56,690

Atlantis 10 feet from the MIR time to

65

00:09:20,210 --> 00:09:17,520

docking 1 minute 50 seconds Atlantis 8

66

00:09:21,740 --> 00:09:20,220

feet away hoot Gibson edging Atlantis at

67

00:09:33,850 --> 00:09:21,750

a rate of less than one-tenth of a foot

68

00:09:49,360 --> 00:09:47,410

a Space Shuttle in a space station now

69

00:10:08,170 --> 00:09:49,370

six feet from each other time to docking

70

00:10:10,210 --> 00:10:08,180

one minute like controllers here

71

00:10:50,020 --> 00:10:10,220

standing by for contact and capture of

72

00:11:23,300 --> 00:11:10,160

we have capture job' capture atlantis we

73

00:11:25,160 --> 00:11:23,310

confirm Mir in free drift with the

74

00:11:27,500 --> 00:11:25,170

capture initiated between Atlantis and

75

00:11:29,330 --> 00:11:27,510

mere 20 years after apollo-soyuz a u.s.

76

00:11:54,860 --> 00:11:29,340

spacecraft and a Russian spacecraft are

77

00:12:13,620 --> 00:11:57,300

commander vladimir Doozer off aboard the

78

00:12:15,300 --> 00:12:13,630

mirror also confirms capture mechanical

79

00:12:18,410 --> 00:12:15,310

systems officer here reports that the

80

00:12:21,150 --> 00:12:18,420

two docking mechanisms are now aligned

81

00:12:24,510 --> 00:12:21,160

the docking ring on atlantis should be

82

00:12:26,730 --> 00:12:24,520

retracted shortly once fully retracted

83

00:12:28,199 --> 00:12:26,740

the structural meeting of the hooks and

84

00:12:50,400 --> 00:12:28,209

latches on both sides of the docking

85

00:12:51,990 --> 00:12:50,410

interfaces will be this television view

86

00:12:54,269 --> 00:12:52,000

from the MIR Space Station showing mir

87

00:12:56,930 --> 00:12:54,279

19 cosmonauts anatoly Salovey EV and

88

00:13:01,050 --> 00:12:56,940

nikolai boo Daren waving out the windows

89

00:13:03,449 --> 00:13:01,060

in the window Salovey Evan boo Daren

90

00:13:04,860 --> 00:13:03,459

just a few hours away from moving in to

91

00:13:07,470 --> 00:13:04,870

the MIR Space Station to take over

92

00:13:09,210 --> 00:13:07,480

control of the mirror from their

93

00:13:11,130 --> 00:13:09,220

colleagues commander vladimir de Jero

94

00:13:13,140 --> 00:13:11,140

flight engineer gennady strike aloft and

95

00:13:14,670 --> 00:13:13,150

cosmonaut researcher norm thagard the

96

00:13:24,290 --> 00:13:14,680

first u.s. astronaut to fly on the

97

00:13:29,580 --> 00:13:26,390

congratulations space shuttle Atlantis

98

00:13:32,370 --> 00:13:29,590

Space Station Mir after 20 years our

99

00:13:44,420 --> 00:13:32,380

spacecraft are docked in orbit again our

100

00:13:44,430 --> 00:14:54,270

it's a great feeling to be here

101  
00:15:04,140 --> 00:14:55,920  
and we've had the formal wedding of the

102  
00:15:05,910 --> 00:15:04,150  
United States and right in this live

103  
00:15:08,330 --> 00:15:05,920  
television now coming from payload Bay

104  
00:15:11,130 --> 00:15:08,340  
cameras aboard Atlantis looking at the

105  
00:15:12,690 --> 00:15:11,140  
the doctor interface between the

106  
00:15:14,490 --> 00:15:12,700  
Christelle module and the shuttles

107  
00:15:16,110 --> 00:15:14,500  
orbiter docking system looking at

108  
00:15:19,170 --> 00:15:16,120  
cameras at the front of the payload Bay

109  
00:15:24,600 --> 00:15:19,180  
looking aft Houston if we show vegetable

110  
00:15:26,580 --> 00:15:24,610  
pressurization complete and please

111  
00:15:32,530 --> 00:15:26,590  
coordinate with the MIR crew for the

112  
00:15:56,269 --> 00:15:41,900  
okay we'll look at that planet Houston

113  
00:16:09,230 --> 00:15:56,279

AOS teachers West that you the folks

114

00:16:46,910 --> 00:16:09,240

have opened their hatch copy the MIR

115

00:16:49,699 --> 00:16:46,920

hatch is open we concur we have a good

116

00:17:13,650 --> 00:16:49,709

image of you your go to open the shuttle

117

00:17:13,660 --> 00:20:12,560

a lot easier without gravity

118

00:20:53,070 --> 00:20:15,060

and this television from the shuttle

119

00:20:58,749 --> 00:20:55,990

on the left is a mere 19 Commander

120

00:21:00,669 --> 00:20:58,759

Anatole Soloviev flight engineer gennady

121

00:21:05,950 --> 00:21:00,679

struggle off of the miry team crew in

122

00:21:07,990 --> 00:21:05,960

the blue suit in between them is a mere

123

00:21:14,769 --> 00:21:08,000

19 flight engineer nikolay boo darin in

124

00:21:16,990 --> 00:21:14,779

the moustache of the background this is

125

00:21:18,909 --> 00:21:17,000

old home for anatoly's Aliyev this is

126

00:21:22,269 --> 00:21:18,919

his fourth flight to the MIR Space

127

00:21:25,810 --> 00:21:22,279

Station prior to the launch of atlantis

128

00:21:29,889 --> 00:21:25,820

on tuesday Solovyev had logged 378 days

129

00:21:35,830 --> 00:21:29,899

in orbit atlantis commander hoot Gibson

130

00:21:41,210 --> 00:21:38,870

there are pictures being taken and video

131

00:21:42,740 --> 00:21:41,220

being shot of the initial entrance by

132

00:21:45,230 --> 00:21:42,750

Atlantis's crew into the MIR Space

133

00:21:48,020 --> 00:21:45,240

Station all of the crew members will be

134

00:21:58,700 --> 00:21:48,030

positioned shortly to begin a brief

135

00:22:18,269 --> 00:21:58,710

welcoming ceremony this is quite a view

136

00:22:22,149 --> 00:22:20,320

the rest of the crew members now

137

00:22:35,500 --> 00:22:22,159

congregating we concur and it looks like

138

00:23:07,060 --> 00:22:37,450

I think we have a lot of work and a lot

139

00:23:15,020 --> 00:23:11,890

he said the first part of the adventure

140

00:23:17,029 --> 00:23:15,030

is over and we're waiting for the second

141

00:23:19,130 --> 00:23:17,039

part which is the landing I guess in

142

00:23:24,560 --> 00:23:19,140

actuality there will be many many many

143

00:23:26,720 --> 00:23:24,570

second parts copy that loud and clear

144

00:23:28,760 --> 00:23:26,730

hoot we have a long history in front of

145

00:23:33,560 --> 00:23:28,770

us and a lot of accomplishments too to

146

00:23:44,440 --> 00:23:33,570

make a little more room now than we had

147

00:23:47,720 --> 00:23:44,450

with apollo-soyuz right at the actual

148

00:23:49,700 --> 00:23:47,730

actual contact point but as you can see

149

00:24:09,300 --> 00:23:49,710

we have a whole lot more room here in

150

00:24:13,360 --> 00:24:11,890

my best everybody there and it's good to

151

00:24:16,720 --> 00:24:13,370

talk with you and it'll be good to see

152

00:24:18,130 --> 00:24:16,730

everybody when we long that's great

153

00:24:26,710 --> 00:24:18,140

it'll be another great welcoming

154

00:24:29,830 --> 00:24:26,720

ceremony then we were wondering if maybe

155

00:24:32,620 --> 00:24:29,840

you might be able to count heads at this

156

00:24:35,730 --> 00:24:32,630

point and and see if we've got everybody

157

00:24:38,410 --> 00:24:35,740

here we think we have everybody here

158

00:24:48,340 --> 00:24:38,420

that's a lot of people in space at one

159

00:24:58,859 --> 00:24:48,350

time we'll count it up we count ten

160

00:25:22,840 --> 00:25:05,619

hello everybody's waving back that's

161

00:25:22,850 --> 00:26:26,399

your families are all waving from the

162

00:26:36,909 --> 00:26:31,200

coca we're focusing savonia winnicott's

163

00:26:37,919 --> 00:26:36,919

Raja diam National Post reporter so you

164

00:26:43,090 --> 00:26:37,929

zappolo

165

00:26:50,310 --> 00:26:43,100

the memory Australian Boresha the

166

00:27:00,659 --> 00:26:50,320

Arsenal via true niches for each rupee

167

00:27:16,149 --> 00:27:00,669

sironia international Bosnia Nastya Shia

168

00:27:21,440 --> 00:27:19,580

about one thing and that's to see if

169

00:27:22,789 --> 00:27:21,450

they're going to let us if we can if we

170

00:27:25,279 --> 00:27:22,799

could plant our sticker somewhere

171

00:27:26,810 --> 00:27:25,289

they're not allowed to but we're going

172

00:27:30,230 --> 00:27:26,820

to take a look and see if we can put our

173

00:27:36,590 --> 00:27:30,240

sticker up copy we have six more minutes

174

00:28:00,099 --> 00:27:36,600

until teachers hand over okay we're back

175

00:28:30,040 --> 00:28:02,719

okay we have a great image of the joint

176

00:28:34,570 --> 00:28:32,470

we all like to tell you how inspiring it

177

00:28:37,240 --> 00:28:34,580

was to watch our country's two great

178

00:28:45,850 --> 00:28:37,250

spacecraft docked together out there and

179

00:28:48,550 --> 00:28:45,860

just their beautiful spacecraft prove we

180

00:28:51,010 --> 00:28:48,560

agree this was a pretty spectacular day

181

00:28:54,460 --> 00:28:51,020

for all of us and it was a real thrill

182

00:28:57,160 --> 00:28:54,470

for us to get to see the mirror floating

183

00:28:59,860 --> 00:28:57,170

floating freely after as it has done for

184

00:29:01,270 --> 00:28:59,870

so many years now and after all the

185

00:29:02,260 --> 00:29:01,280

training in the preparation it seems

186

00:29:19,370 --> 00:29:02,270

hard to believe that we're actually

187

00:29:23,150 --> 00:29:21,140

yes and we have two additional steps

188

00:29:29,060 --> 00:29:23,160

we'd like to give a try on here when

189

00:29:32,410 --> 00:29:29,070

you're ready copy alright first we'd

190

00:29:36,860 --> 00:29:32,420

like you to check the connections on the

191

00:29:43,270 --> 00:29:36,870

rs-232 between the EM gas and the

192

00:29:43,280 --> 00:29:56,050

following that try the try icon again

193

00:30:01,820 --> 00:29:58,930

this is Mission Control Houston aboard

194

00:30:03,950 --> 00:30:01,830

the MIR space station in Atlantis the

195

00:30:08,960 --> 00:30:03,960

crews day is winding down as they

196

00:30:10,730 --> 00:30:08,970

approach their evening meal time they're

197

00:30:13,280 --> 00:30:10,740

almost getting to the end of their

198

00:30:15,290 --> 00:30:13,290

active duty day and I will move into

199

00:30:16,520 --> 00:30:15,300

that timeframe that is the evening

200

00:30:18,380 --> 00:30:16,530

timeframe where they have a couple of

201  
00:30:20,840 --> 00:30:18,390  
hours to get ready to begin their

202  
00:30:23,690 --> 00:30:20,850  
eight-hour sleep period we're currently

203  
00:30:27,470 --> 00:30:23,700  
receiving live television from Atlantis

204  
00:30:29,350 --> 00:30:27,480  
as it's docked to the MIR station the

205  
00:30:33,710 --> 00:30:29,360  
two spacecraft are creating the largest

206  
00:30:35,840 --> 00:30:33,720  
spacecraft ever in Earth orbit at a mass

207  
00:30:38,720 --> 00:30:35,850  
of almost half a million pounds at

208  
00:30:40,730 --> 00:30:38,730  
present the two are above the Pacific

209  
00:30:43,670 --> 00:30:40,740  
Ocean well off the coast of South

210  
00:30:51,590 --> 00:30:43,680  
America at an altitude of 216 nautical

211  
00:30:53,090 --> 00:30:51,600  
miles this is Mission Control this is

212  
00:30:54,920 --> 00:30:53,100  
Mission Control Houston this view is

213  
00:30:58,520 --> 00:30:54,930

from the Space Lab module mounted in the

214

00:31:06,470 --> 00:30:58,530

cargo bay of Atlantis activity in the

215

00:31:12,950 --> 00:31:06,480

space lab module today has been we got

216

00:31:15,740 --> 00:31:12,960

you in the module on mission specialists

217

00:31:17,870 --> 00:31:15,750

uh Bonnie Dunbar and Ellen Baker are at

218

00:31:21,740 --> 00:31:17,880

work activating it as they have been for

219

00:31:23,870 --> 00:31:21,750

the past hour and a half or so preparing

220

00:31:35,380 --> 00:31:23,880

it for the various medical and

221

00:31:49,070 --> 00:31:45,980

okay thanks this is Mission Control

222

00:31:53,090 --> 00:31:49,080

Houston is Atlantis in the MIR Space

223

00:31:54,500 --> 00:31:53,100

Station fly 215 nautical miles above the

224

00:31:57,620 --> 00:31:54,510

Atlantic Ocean off the coast of

225

00:31:58,940 --> 00:31:57,630

Newfoundland these views are from my

226  
00:32:04,340 --> 00:31:58,950  
cameras mounted in the cargo bay of

227  
00:32:06,590 --> 00:32:04,350  
Atlantis various views of the MIR

228  
00:32:08,210 --> 00:32:06,600  
station from several different cameras

229  
00:32:10,070 --> 00:32:08,220  
have been displayed over the past a

230  
00:32:11,630 --> 00:32:10,080  
couple of minutes on board the cruise

231  
00:32:13,610 --> 00:32:11,640  
day is winding down that they're

232  
00:32:15,230 --> 00:32:13,620  
reaching a point for the evening on

233  
00:32:18,140 --> 00:32:15,240  
board where they'll be preparing to go

234  
00:32:25,180 --> 00:32:18,150  
to sleep as sleep time begins at 5:32

235  
00:32:31,470 --> 00:32:27,220  
this view shows the docking interface

236  
00:32:34,840 --> 00:32:31,480  
between Atlantis and I the MIR station

237  
00:32:38,440 --> 00:32:34,850  
the two modules together in the docking