



1  
00:01:43,119 --> 00:02:38,150  
so

2  
00:02:46,229 --> 00:02:40,550  
bonjour atlantis another great day in

3  
00:02:50,150 --> 00:02:48,229  
all the team on the ground uh what a

4  
00:02:51,270 --> 00:02:50,160  
nice touch for the french guy on board i

5  
00:02:53,110 --> 00:02:51,280  
was really

6  
00:03:01,670 --> 00:02:53,120  
thrilled listening to this music on

7  
00:03:04,949 --> 00:03:03,270  
now living with

8  
00:03:07,030 --> 00:03:04,959  
all this international crew on board

9  
00:03:09,910 --> 00:03:07,040  
sometimes i wonder if i am a french

10  
00:03:11,910 --> 00:03:09,920  
european or just

11  
00:03:14,869 --> 00:03:11,920  
citizen of the whole world

12  
00:03:26,229 --> 00:03:14,879  
this is really a very very exciting

13  
00:04:49,350 --> 00:04:02,149

is

14

00:06:08,710 --> 00:04:51,510  
he decided when he was 40

15

00:06:08,720 --> 00:06:27,510  
um

16

00:06:27,520 --> 00:06:35,510  
okay

17

00:06:35,520 --> 00:06:56,469  
um

18

00:06:56,479 --> 00:07:14,629  
this is a great picture

19

00:07:14,639 --> 00:07:43,909  
videos

20

00:07:43,919 --> 00:07:59,270  
right there

21

00:07:59,280 --> 00:08:49,030  
um

22

00:08:49,040 --> 00:08:59,110  
foreign

23

00:09:03,670 --> 00:09:01,350  
okay thank you chris and to the fourth

24

00:09:05,750 --> 00:09:03,680  
air expeditionary wing and qatar

25

00:09:08,870 --> 00:09:05,760  
and to my good friend carl tim cantwell

26  
00:09:10,230 --> 00:09:08,880  
especially who set this up for me to be

27  
00:09:11,990 --> 00:09:10,240  
able to talk to you

28  
00:09:14,470 --> 00:09:12,000  
representing

29  
00:09:18,150 --> 00:09:14,480  
the air force with the crew of

30  
00:09:22,949 --> 00:09:18,160  
atlantis currently dr mayor myself and

31  
00:09:26,630 --> 00:09:24,790  
we're real proud to be able to talk to

32  
00:09:29,030 --> 00:09:26,640  
you we're real proud of you

33  
00:09:30,230 --> 00:09:29,040  
representing the air force in qatar to

34  
00:09:32,230 --> 00:09:30,240  
general smith

35  
00:09:33,509 --> 00:09:32,240  
over there leading the forces

36  
00:09:34,710 --> 00:09:33,519  
we are

37  
00:09:36,710 --> 00:09:34,720  
very happy to be able to talk to you

38  
00:09:38,870 --> 00:09:36,720

today as we orbit the earth with our

39

00:09:41,509 --> 00:09:38,880

friends from russia on the mir space

40

00:09:43,430 --> 00:09:41,519

station docked at 200 miles flying over

41

00:09:44,710 --> 00:09:43,440

qatar at this point in time looking down

42

00:09:46,949 --> 00:09:44,720

on you

43

00:09:49,269 --> 00:09:46,959

really proud to be part of the air force

44

00:09:50,710 --> 00:09:49,279

especially in this 50th anniversary year

45

00:09:51,670 --> 00:09:50,720

and part of the work that you're doing

46

00:09:53,350 --> 00:09:51,680

there

47

00:09:55,509 --> 00:09:53,360

i'm going to let eileen collins

48

00:09:57,829 --> 00:09:55,519

lieutenant colonel and our pilot

49

00:09:59,430 --> 00:09:57,839

say a couple of words to you

50

00:10:00,630 --> 00:09:59,440

congratulating you on a successful

51  
00:10:02,070 --> 00:10:00,640  
completion your deployment my

52  
00:10:03,350 --> 00:10:02,080  
understanding is that you're headed back

53  
00:10:09,829 --> 00:10:03,360  
home tomorrow

54  
00:10:13,990 --> 00:10:11,670  
hello this is lieutenant colonel eileen

55  
00:10:16,949 --> 00:10:14,000  
collins aboard the space shuttle

56  
00:10:19,829 --> 00:10:16,959  
atlantis currently docked with mir

57  
00:10:21,190 --> 00:10:19,839  
and just like to thank all of you for

58  
00:10:22,870 --> 00:10:21,200  
the great work that you're doing to

59  
00:10:24,630 --> 00:10:22,880  
defend our country

60  
00:10:26,069 --> 00:10:24,640  
and we're proud of you and and what

61  
00:10:28,310 --> 00:10:26,079  
you're doing we're also proud to be part

62  
00:10:30,310 --> 00:10:28,320  
of the air force and happy to celebrate

63  
00:10:31,910 --> 00:10:30,320

this 50th anniversary

64

00:10:33,430 --> 00:10:31,920

so keep up your good work and we're

65

00:10:38,150 --> 00:10:33,440

thinking about you up here on the

66

00:10:41,670 --> 00:10:39,829

and to the folks of the fourth air

67

00:10:42,470 --> 00:10:41,680

expeditionary wing as you deploy back

68

00:10:44,230 --> 00:10:42,480

home

69

00:10:46,790 --> 00:10:44,240

uh you probably won't get quite the same

70

00:10:48,069 --> 00:10:46,800

view of the earth that we do but i'm

71

00:10:49,829 --> 00:10:48,079

sure you'll be able to appreciate the

72

00:10:51,829 --> 00:10:49,839

vastness of our globe

73

00:10:52,550 --> 00:10:51,839

how close we get together these days

74

00:10:54,710 --> 00:10:52,560

with

75

00:10:56,550 --> 00:10:54,720

our improvements in communication how

76

00:10:58,389 --> 00:10:56,560

much better our relationships are with

77

00:11:00,069 --> 00:10:58,399

people around the world here on

78

00:11:00,870 --> 00:11:00,079

the mirror and the shuttle today we have

79

00:11:02,870 --> 00:11:00,880

folks

80

00:11:05,509 --> 00:11:02,880

on this crew that represent

81

00:11:07,430 --> 00:11:05,519

many different nationalities we have

82

00:11:10,069 --> 00:11:07,440

a frenchman aboard the uh the crew of

83

00:11:12,069 --> 00:11:10,079

atlantis we have uh two folks that are

84

00:11:15,110 --> 00:11:12,079

making their first flight one who was

85

00:11:18,150 --> 00:11:15,120

born in peru another who is uh

86

00:11:21,030 --> 00:11:18,160

his parents immigrated from china

87

00:11:23,829 --> 00:11:21,040

and of course we have the russians on

88

00:11:25,670 --> 00:11:23,839

the near side of the hatch as part of

89

00:11:27,750 --> 00:11:25,680

the shuttle crew we also have a russian

90

00:11:29,350 --> 00:11:27,760

woman elena kondakova who is on an

91

00:11:31,670 --> 00:11:29,360

exchange with us and it's just a

92

00:11:33,590 --> 00:11:31,680

wonderful thing to see

93

00:11:35,430 --> 00:11:33,600

a multinational effort like this come

94

00:11:37,030 --> 00:11:35,440

together and i can tell you most

95

00:11:38,790 --> 00:11:37,040

assuredly that the work that the air

96

00:11:41,030 --> 00:11:38,800

force has done over the last 50 years

97

00:11:43,110 --> 00:11:41,040

has made something like this happen you

98

00:11:44,470 --> 00:11:43,120

folks over there qatar keeping up the

99

00:11:46,389 --> 00:11:44,480

work that you do keeping up the

100

00:11:48,630 --> 00:11:46,399

tradition great with the air force

101  
00:11:51,030 --> 00:11:48,640  
you've made missions like ours in orbit

102  
00:11:53,190 --> 00:11:51,040  
possible and it can only get better from

103  
00:11:55,190 --> 00:11:53,200  
here we salute you guys

104  
00:11:57,269 --> 00:11:55,200  
happy 50th anniversary to everybody in

105  
00:11:59,030 --> 00:11:57,279  
the air force especially to you that are

106  
00:12:00,949 --> 00:11:59,040  
deployed all those others that are

107  
00:12:02,470 --> 00:12:00,959  
deployed around the world great work and

108  
00:12:04,069 --> 00:12:02,480  
hope to see you soon when we're back on

109  
00:12:06,710 --> 00:12:04,079  
the ground together in our home country

110  
00:12:10,550 --> 00:12:08,150  
safety please

111  
00:12:12,230 --> 00:12:10,560  
safety here is always a concern as it is

112  
00:12:13,030 --> 00:12:12,240  
on any space vehicle

113  
00:12:15,430 --> 00:12:13,040

and

114

00:12:16,949 --> 00:12:15,440

we are doing our utmost utmost to keep

115

00:12:18,389 --> 00:12:16,959

things safe here

116

00:12:20,389 --> 00:12:18,399

the russians have done an outstanding

117

00:12:22,550 --> 00:12:20,399

job recovering from more than usual

118

00:12:24,949 --> 00:12:22,560

number of failures you can see we're all

119

00:12:27,269 --> 00:12:24,959

doing just fine here and we're enjoying

120

00:12:28,870 --> 00:12:27,279

our time working with our colleagues

121

00:12:32,069 --> 00:12:28,880

jerry's ready to come home mike's ready

122

00:12:34,069 --> 00:12:32,079

to take over uh as for micro meteoroid

123

00:12:35,509 --> 00:12:34,079

hits nothing while we've been in space

124

00:12:37,350 --> 00:12:35,519

here

125

00:12:39,269 --> 00:12:37,360

during our stay

126

00:12:40,389 --> 00:12:39,279

yes i'd like to ask jerry lenninger

127

00:12:42,310 --> 00:12:40,399

what's the most interesting weather

128

00:12:43,990 --> 00:12:42,320

phenomena he saw in his uh four months

129

00:12:55,829 --> 00:12:44,000

in space and what he thinks the rocket's

130

00:13:00,550 --> 00:12:58,629

uh most interesting weather formation i

131

00:13:01,750 --> 00:13:00,560

guess just watching some tropical storms

132

00:13:03,509 --> 00:13:01,760

i can't really pick out one in

133

00:13:05,430 --> 00:13:03,519

particular

134

00:13:07,430 --> 00:13:05,440

and also some sea currents and looking

135

00:13:09,750 --> 00:13:07,440

at sun glint and the different uh

136

00:13:11,190 --> 00:13:09,760

patterns and swirls on the ocean in the

137

00:13:12,470 --> 00:13:11,200

middle of the ocean

138

00:13:14,069 --> 00:13:12,480

along uh

139

00:13:17,110 --> 00:13:14,079

islands things like that are always

140

00:13:19,030 --> 00:13:17,120

amazing uh i'll say gold rockets and i

141

00:13:20,710 --> 00:13:19,040

think the rockets have a good chance of

142

00:13:22,230 --> 00:13:20,720

winning it all although i haven't

143

00:13:24,710 --> 00:13:22,240

watched a single game because i've been

144

00:13:26,710 --> 00:13:24,720

up here since january yes i was

145

00:13:29,190 --> 00:13:26,720

wondering if uh while you're staying

146

00:13:30,790 --> 00:13:29,200

long term in orbit if you can detect the

147

00:13:33,430 --> 00:13:30,800

effects of solar flares or solar

148

00:13:44,230 --> 00:13:33,440

radiation either on your on your cells

149

00:13:47,430 --> 00:13:45,670

actually that's been quite noticeable

150

00:13:49,590 --> 00:13:47,440

this uh last trip every flight i've been

151

00:13:50,949 --> 00:13:49,600

on this is my first flight i have

152

00:13:52,870 --> 00:13:50,959

noticed um

153

00:13:54,870 --> 00:13:52,880

flashes at night when i'm sleeping in my

154

00:13:56,870 --> 00:13:54,880

uh in my field of vision

155

00:13:59,030 --> 00:13:56,880

and those are caused by uh very very

156

00:14:01,430 --> 00:13:59,040

high speed particles mostly from the

157

00:14:03,590 --> 00:14:01,440

cosmic ray background radiation but also

158

00:14:05,990 --> 00:14:03,600

during solar phase you get uh these

159

00:14:06,949 --> 00:14:06,000

these light trails in your visual field

160

00:14:08,470 --> 00:14:06,959

you know you're just looking at

161

00:14:09,829 --> 00:14:08,480

basically darkness of course as you fall

162

00:14:11,670 --> 00:14:09,839

asleep and you'll see these little

163

00:14:13,910 --> 00:14:11,680

flashes and different points of your uh

164

00:14:14,949 --> 00:14:13,920

peripheral vision well recently on this

165

00:14:16,790 --> 00:14:14,959

play

166

00:14:19,269 --> 00:14:16,800

i think and the other fascists mentioned

167

00:14:20,710 --> 00:14:19,279

this to me as well that um

168

00:14:22,389 --> 00:14:20,720

there's a lot of activity going on right

169

00:14:25,030 --> 00:14:22,399

now and i think jerry also did a spit

170

00:14:27,750 --> 00:14:25,040

and so we're actually seeing trails in

171

00:14:29,350 --> 00:14:27,760

our visual field almost like meteor

172

00:14:30,870 --> 00:14:29,360

trails and

173

00:14:32,470 --> 00:14:30,880

i tried moving my head around the other

174

00:14:33,829 --> 00:14:32,480

night and it changed the orientation of

175

00:14:35,590 --> 00:14:33,839

the trail so i was pretty sure it was

176  
00:14:37,430 --> 00:14:35,600  
localized you know it's a stream coming

177  
00:14:39,189 --> 00:14:37,440  
through the spacecraft

178  
00:14:41,829 --> 00:14:39,199  
are you more or less spiritual than when

179  
00:14:47,829 --> 00:14:41,839  
you first went into space

180  
00:14:52,550 --> 00:14:50,310  
i think the same way as everybody else

181  
00:14:55,910 --> 00:14:52,560  
who has been to space

182  
00:15:00,069 --> 00:14:58,150  
you're so far from earth you begin to

183  
00:15:05,990 --> 00:15:00,079  
love it even more and then when you look

184  
00:15:09,750 --> 00:15:06,790  
you

185  
00:15:13,269 --> 00:15:09,760  
stop thinking about all the

186  
00:15:18,790 --> 00:15:13,279  
orders about conflicts on earth why the

187  
00:15:22,629 --> 00:15:20,949  
it's so little

188  
00:15:24,949 --> 00:15:22,639

we have a very

189

00:15:27,189 --> 00:15:24,959

thin layer of atmosphere

190

00:15:29,509 --> 00:15:27,199

which protects us from radiation from

191

00:15:32,550 --> 00:15:29,519

the sun

192

00:15:34,870 --> 00:15:32,560

and you begin to forget about small

193

00:15:36,470 --> 00:15:34,880

earthly problems and you start thinking

194

00:15:38,629 --> 00:15:36,480

about different things

195

00:15:40,230 --> 00:15:38,639

and i think facilities answer could be

196

00:15:42,069 --> 00:15:40,240

given in any language around the world

197

00:15:46,470 --> 00:15:42,079

from anyone who flies up here we all

198

00:15:51,110 --> 00:15:48,949

hello from the space station near my

199

00:15:53,749 --> 00:15:51,120

space shuttle atlantis for all of you

200

00:15:56,230 --> 00:15:53,759

who are viewing the imax film mission

201  
00:15:58,790 --> 00:15:56,240  
tomorrow for the first time we welcome

202  
00:16:00,310 --> 00:15:58,800  
you and we share with you the thrill of

203  
00:16:01,829 --> 00:16:00,320  
a great mission with our russian

204  
00:16:03,269 --> 00:16:01,839  
colleagues in space

205  
00:16:05,670 --> 00:16:03,279  
i'm commander charlie play court of

206  
00:16:07,269 --> 00:16:05,680  
arrest us-84 crew and we are fortunate

207  
00:16:09,829 --> 00:16:07,279  
enough to be docked right now on onboard

208  
00:16:11,829 --> 00:16:09,839  
the space station near with the mir 23

209  
00:16:13,350 --> 00:16:11,839  
crew and we're in the process of

210  
00:16:16,230 --> 00:16:13,360  
continuing the mission that you're about

211  
00:16:18,389 --> 00:16:16,240  
to watch on the imax theater it's a

212  
00:16:19,910 --> 00:16:18,399  
tremendous opportunity for us we'd like

213  
00:16:21,829 --> 00:16:19,920

to connect with you as you have the

214

00:16:23,110 --> 00:16:21,839

opportunity to share our journeys here

215

00:16:25,189 --> 00:16:23,120

in space

216

00:16:27,269 --> 00:16:25,199

and we are fortunate enough to bring

217

00:16:29,269 --> 00:16:27,279

enjoy renting your home from space after

218

00:16:31,430 --> 00:16:29,279

his stay on board the mirror moving mike

219

00:16:34,550 --> 00:16:31,440

fall as his replacement what you're

220

00:16:37,350 --> 00:16:34,560

seeing is continuing today as we speak

221

00:16:39,269 --> 00:16:37,360

to you as you sit there ready to watch