



1  
00:00:12,789 --> 00:00:10,629  
a single thread in the tapestry though

2  
00:00:15,589 --> 00:00:12,799  
its color brightly shine

3  
00:00:19,029 --> 00:00:15,599  
can never see its purpose in the pattern

4  
00:00:24,150 --> 00:00:21,590  
and the stone that sits on the very top

5  
00:00:26,310 --> 00:00:24,160  
of the mountain's mighty face does it

6  
00:00:30,550 --> 00:00:26,320  
think it's more important than the

7  
00:00:32,790 --> 00:00:30,560  
stones that form the base

8  
00:00:35,750 --> 00:00:32,800  
so how can you see what your life is

9  
00:00:39,430 --> 00:00:35,760  
worth or where your value lies you can

10  
00:00:42,229 --> 00:00:39,440  
never see through the eyes of man

11  
00:00:47,590 --> 00:00:42,239  
you must look at your life

12  
00:00:51,750 --> 00:00:49,270  
good morning discovery and a special

13  
00:00:53,510 --> 00:00:51,760

good morning to mike barrett

14

00:00:56,150 --> 00:00:53,520

what you just listened to was through

15

00:00:57,990 --> 00:00:56,160

heaven's eyes from the prince of egypt

16

00:01:01,590 --> 00:00:58,000

and that comes with a very special hello

17

00:01:05,750 --> 00:01:03,750

well good morning mike and uh thanks to

18

00:01:07,670 --> 00:01:05,760

my crazy wonderful family it's great to

19

00:01:08,950 --> 00:01:07,680

be back in space again and i wish

20

00:01:10,950 --> 00:01:08,960

everybody could see what we're seeing

21

00:01:13,830 --> 00:01:10,960

through our eyes up here too as well and

22

00:01:15,830 --> 00:01:13,840

i look forward to working with you today

23

00:01:18,070 --> 00:01:15,840

thanks mike and uh congratulations from

24

00:01:19,190 --> 00:01:18,080

all of us down here to uh you and your

25

00:01:23,030 --> 00:01:19,200

crewmates

26

00:01:27,590 --> 00:01:25,109

hey steve we're getting ready to do our

27

00:01:29,830 --> 00:01:27,600

over down here from orbit three to orbit

28

00:01:31,670 --> 00:01:29,840

one you guys can start your day

29

00:01:33,429 --> 00:01:31,680

but also wanted to let you know we're

30

00:01:35,109 --> 00:01:33,439

having a very nice ceremony down here

31

00:01:38,870 --> 00:01:35,119

for mike marsh

32

00:01:41,350 --> 00:01:38,880

who's celebrating his 119th

33

00:01:44,710 --> 00:01:41,360

shuttle mission that he's working as gc

34

00:01:48,469 --> 00:01:47,270

well uh mike first of all you know it's

35

00:01:50,550 --> 00:01:48,479

uh

36

00:01:52,069 --> 00:01:50,560

it's a great milestone for you to

37

00:01:55,350 --> 00:01:52,079

celebrate all these missions you've done

38

00:01:57,030 --> 00:01:55,360

according to my information you have uh

39

00:01:59,270 --> 00:01:57,040

participated in

40

00:02:01,109 --> 00:01:59,280

supporting every single shuttle mission

41

00:02:02,709 --> 00:02:01,119

we have ever flown which starts all the

42

00:02:06,310 --> 00:02:02,719

way back to sps one i won't tell you

43

00:02:08,150 --> 00:02:06,320

where i was when sts-1 launched but uh

44

00:02:08,790 --> 00:02:08,160

congratulations on working all those as

45

00:02:18,550 --> 00:02:08,800

a

46

00:02:20,710 --> 00:02:18,560

work down there um you know seeing your

47

00:02:22,390 --> 00:02:20,720

faces when we walk in there and knowing

48

00:02:24,150 --> 00:02:22,400

you guys are working it makes us feel

49

00:02:26,710 --> 00:02:24,160

real confident up here so a

50

00:02:27,510 --> 00:02:26,720

congratulations to you and uh and i know

51

00:02:28,630 --> 00:02:27,520

that

52

00:02:30,229 --> 00:02:28,640

you wouldn't be

53

00:02:31,670 --> 00:02:30,239

as big of success if you didn't have a

54

00:02:41,750 --> 00:02:31,680

great family standing behind you so

55

00:02:45,190 --> 00:02:43,509

first of all let me say this is a great

56

00:02:47,350 --> 00:02:45,200

honor i'm

57

00:02:48,830 --> 00:02:47,360

very pleased to be here and be a part of

58

00:02:51,910 --> 00:02:48,840

this program

59

00:02:54,790 --> 00:02:51,920

i'm and this ceremony is just

60

00:02:57,350 --> 00:02:54,800

overwhelming my family's here and

61

00:02:58,550 --> 00:02:57,360

all of uh management and

62

00:03:01,190 --> 00:02:58,560

and

63

00:03:03,110 --> 00:03:01,200

i am just truly overwhelmed this i love

64

00:03:05,910 --> 00:03:03,120

this business i love working here and i

65

00:03:07,750 --> 00:03:05,920

love working with all of you

66

00:03:08,949 --> 00:03:07,760

everybody here on the ground and every

67

00:03:12,070 --> 00:03:08,959

in the air

68

00:03:17,509 --> 00:03:14,470

you bet mike and again congratulations

69

00:03:18,790 --> 00:03:17,519

to you uh on on being there for the

70

00:03:20,470 --> 00:03:18,800

program you know

71

00:03:22,149 --> 00:03:20,480

you go around this program and you see

72

00:03:24,470 --> 00:03:22,159

you see people everywhere that have been

73

00:03:26,390 --> 00:03:24,480

working in this program for many years

74

00:03:28,630 --> 00:03:26,400

not all not too many worked it from

75

00:03:30,710 --> 00:03:28,640

sts-1 but there's still quite a few out

76  
00:03:31,990 --> 00:03:30,720  
there that have done that as well and

77  
00:03:34,149 --> 00:03:32,000  
you know i'm just looking out the window

78  
00:03:35,750 --> 00:03:34,159  
here going over the earth

79  
00:03:37,910 --> 00:03:35,760  
like right over the middle of africa

80  
00:03:39,670 --> 00:03:37,920  
right now and thinking about how cool it

81  
00:03:40,869 --> 00:03:39,680  
is to be up here doing this but what's

82  
00:03:43,350 --> 00:03:40,879  
even

83  
00:03:45,030 --> 00:03:43,360  
more impressive to me about the whole

84  
00:03:47,589 --> 00:03:45,040  
space flight business is when you have a

85  
00:03:49,589 --> 00:03:47,599  
large team like we have doing something

86  
00:03:52,070 --> 00:03:49,599  
incredibly complex and most people don't

87  
00:03:54,070 --> 00:03:52,080  
understand how complex it really is and

88  
00:03:55,910 --> 00:03:54,080

yet we uh we pull it off

89

00:03:57,030 --> 00:03:55,920

successfully year after year mission

90

00:03:59,030 --> 00:03:57,040

after mission

91

00:04:00,710 --> 00:03:59,040

and uh and all the stuff that you guys

92

00:04:02,710 --> 00:04:00,720

do on the ground to make it all seem

93

00:04:03,990 --> 00:04:02,720

seamless to us so uh

94

00:04:05,589 --> 00:04:04,000

it's good once in a while i think for

95

00:04:07,270 --> 00:04:05,599

all of us to kind of step back and think

96

00:04:08,229 --> 00:04:07,280

about what we're really doing and uh

97

00:04:10,949 --> 00:04:08,239

because we're

98

00:04:14,390 --> 00:04:10,959

we're a set of very few people in the

99

00:04:18,469 --> 00:04:14,400

world that ever get to do this

100

00:04:22,069 --> 00:04:20,229

this is the flight deck uh looking there

101  
00:04:24,150 --> 00:04:22,079  
on the far right hand side at the pilot

102  
00:04:26,230 --> 00:04:24,160  
eric bowe

103  
00:04:28,790 --> 00:04:26,240  
the crew is getting ready to conduct a

104  
00:04:31,590 --> 00:04:28,800  
course correction burn this will adjust

105  
00:04:33,189 --> 00:04:31,600  
discovery's velocity by 10.3 feet per

106  
00:04:35,030 --> 00:04:33,199  
second

107  
00:04:36,870 --> 00:04:35,040  
the crews had a very busy morning so far

108  
00:04:39,670 --> 00:04:36,880  
they've got an even busier day ahead as

109  
00:04:41,270 --> 00:04:39,680  
they get ready to not only conduct

110  
00:04:43,350 --> 00:04:41,280  
a couple of these course correction

111  
00:04:45,430 --> 00:04:43,360  
burns but also this orbiter boom sensor

112  
00:04:47,510 --> 00:04:45,440  
system survey today

113  
00:04:49,430 --> 00:04:47,520

it will start off with the

114

00:04:51,350 --> 00:04:49,440

right wing the starboard wing then move

115

00:04:53,510 --> 00:04:51,360

that orbiter boom sensor system over to

116

00:04:55,990 --> 00:04:53,520

the nose cap and then finally wrap up

117

00:04:57,909 --> 00:04:56,000

with the port wing on the left hand side

118

00:04:59,350 --> 00:04:57,919

all these images will be downlinked to

119

00:05:00,629 --> 00:04:59,360

the team here in houston they'll take a

120

00:05:02,629 --> 00:05:00,639

look at them over the next couple of

121

00:05:04,550 --> 00:05:02,639

days to make sure the discovery's

122

00:05:06,790 --> 00:05:04,560

thermal protection system and namely

123

00:05:08,790 --> 00:05:06,800

those uh forward portion of the wings

124

00:05:10,469 --> 00:05:08,800

and that reinforced carbon carbons on

125

00:05:17,270 --> 00:05:10,479

the front part of the nose cap

126

00:05:17,280 --> 00:05:32,070

10 seconds to go

127

00:05:35,350 --> 00:05:33,670

discoveries orbital maneuvering system

128

00:05:37,270 --> 00:05:35,360

engine is burning you saw the slight

129

00:05:40,310 --> 00:05:37,280

shaking there the camera as we take a

130

00:05:41,670 --> 00:05:40,320

look at the pilot eric bowe

131

00:05:44,150 --> 00:05:41,680

on the right hand side of the cockpit

132

00:06:03,270 --> 00:05:44,160

inside discovery watching over

133

00:06:24,070 --> 00:06:04,870

good burn discovery no further trim

134

00:06:26,710 --> 00:06:25,749

crew adjusting the camera there on board

135

00:06:28,710 --> 00:06:26,720

the uh

136

00:06:33,029 --> 00:06:28,720

flight deck of discovery you see al drew

137

00:06:37,029 --> 00:06:35,189

steve lindsay there in uh close up as he

138

00:06:39,749 --> 00:06:37,039

gets the camera secured back to that

139

00:06:41,749 --> 00:06:39,759

portion of the fly deck

140

00:06:43,670 --> 00:06:41,759

now that this uh engine burn has been

141

00:06:44,870 --> 00:06:43,680

concluded successfully the crew is going

142

00:06:47,510 --> 00:06:44,880

to turn their attention over to this

143

00:06:49,350 --> 00:06:47,520

orbiter boom sensor system survey

144

00:06:51,189 --> 00:06:49,360

this is going to take about six hours to

145

00:06:52,950 --> 00:06:51,199

complete

146

00:06:55,110 --> 00:06:52,960

which will take up the majority of the

147

00:07:02,469 --> 00:06:55,120

crew's day you see nicole stott there

148

00:07:07,029 --> 00:07:04,390

at this point the shuttle's robotic arm

149

00:07:09,110 --> 00:07:07,039

is still uh hovering above where it is

150

00:07:10,550 --> 00:07:09,120

normally stowed

151  
00:07:13,510 --> 00:07:10,560  
on the left-hand side of the shuttle's

152  
00:07:14,710 --> 00:07:13,520  
payload bay that's the port sign

153  
00:07:16,469 --> 00:07:14,720  
they're gonna steer it here in a few

154  
00:07:19,110 --> 00:07:16,479  
minutes to reach over and grab onto this

155  
00:07:21,830 --> 00:07:19,120  
obss which is a 50 foot long attachment

156  
00:07:23,909 --> 00:07:21,840  
that goes on the end of that robotic arm

157  
00:07:25,350 --> 00:07:23,919  
they will lift it up out of its cradle

158  
00:07:27,270 --> 00:07:25,360  
perform a quick checkout to make sure

159  
00:07:29,029 --> 00:07:27,280  
that it's powered up all the different

160  
00:07:31,589 --> 00:07:29,039  
cameras and sensors on the end of it are

161  
00:07:33,909 --> 00:07:31,599  
operating as expected

162  
00:07:36,070 --> 00:07:33,919  
uh we've got ime star of opportunity

163  
00:07:37,670 --> 00:07:36,080

line coming up in the cdr column hold

164

00:07:39,110 --> 00:07:37,680

off on that for a moment until we get

165

00:07:40,230 --> 00:07:39,120

good stars we'll see what the maneuver

166

00:07:41,990 --> 00:07:40,240

brings us

167

00:07:44,469 --> 00:07:42,000

and we're still with you on the flight

168

00:07:46,230 --> 00:07:44,479

deck enjoying the view the kfx card

169

00:07:49,189 --> 00:07:46,240

we've got the images so you go to remove

170

00:07:49,199 --> 00:07:59,189

okay copy all that

171

00:08:02,550 --> 00:08:00,629

the very uh

172

00:08:04,309 --> 00:08:02,560

tip end of the shuttle's robotic arm

173

00:08:05,990 --> 00:08:04,319

there at the top center portion of your

174

00:08:07,909 --> 00:08:06,000

screen

175

00:08:09,589 --> 00:08:07,919

there at the bottom is the target for

176

00:08:13,110 --> 00:08:09,599

that arm that is the end of the orbiter

177

00:08:15,909 --> 00:08:13,120

boom sensor system attachment

178

00:08:17,350 --> 00:08:15,919

we're on page 7-4 of pers we think we

179

00:08:18,950 --> 00:08:17,360

have everything configured correctly

180

00:08:21,029 --> 00:08:18,960

before we grapple but it's at the top of

181

00:08:24,230 --> 00:08:21,039

the page if you'd give us a

182

00:08:26,710 --> 00:08:24,240

go if you see the apc in a good config

183

00:08:29,749 --> 00:08:26,720

discovery houston pdrs eric

184

00:08:31,990 --> 00:08:29,759

petersburg 7-4 on the top those three

185

00:08:36,709 --> 00:08:32,000

checks uh have come been confirmed by us

186

00:08:40,630 --> 00:08:38,949

but the arm in motion now as the crew

187

00:08:42,790 --> 00:08:40,640

gets ready to

188

00:08:44,710 --> 00:08:42,800

attach the robotic arm onto the over

189

00:09:06,150 --> 00:08:44,720

boom sensor system

190

00:09:11,590 --> 00:09:09,509

as discovery flies about 150 miles above

191

00:09:13,190 --> 00:09:11,600

africa you can see that the orbiter boom

192

00:09:15,269 --> 00:09:13,200

sensor system attachment that's on the

193

00:09:17,910 --> 00:09:15,279

end of the shuttle's robotic arm

194

00:09:20,310 --> 00:09:17,920

has been lifted up out of the right side

195

00:09:21,590 --> 00:09:20,320

cradle of discovery's payload bay

196

00:09:24,150 --> 00:09:21,600

it is now in what they call the hover

197

00:09:27,750 --> 00:09:26,310

they will begin by taking a look at the

198

00:09:30,070 --> 00:09:27,760

starboard wing first that's the right

199

00:09:35,430 --> 00:09:31,190

they're also going to be taking a look

200

00:09:37,350 --> 00:09:35,440

at some of the umbilical areas which uh

201  
00:09:38,790 --> 00:09:37,360  
the shuttle is attached to during the

202  
00:09:41,590 --> 00:09:38,800  
final moments of countdown and become

203  
00:09:45,350 --> 00:09:41,600  
released after liftoff

204  
00:09:49,750 --> 00:09:47,670  
while discovery's crew is uh getting

205  
00:09:51,030 --> 00:09:49,760  
this orbiter boom sensor system survey

206  
00:09:52,230 --> 00:09:51,040  
underway there's a special guest here

207  
00:09:54,870 --> 00:09:52,240  
inside mission control right now

208  
00:09:56,470 --> 00:09:54,880  
astronaut tim copra is in here talking

209  
00:09:57,910 --> 00:09:56,480  
with the flight directors including

210  
00:09:59,750 --> 00:09:57,920  
brian lundy

211  
00:10:01,269 --> 00:09:59,760  
and back at the back is tony soccer who

212  
00:10:03,829 --> 00:10:01,279  
will be the entry flight director as

213  
00:10:05,829 --> 00:10:03,839

well as norm knight

214

00:10:08,069 --> 00:10:05,839

is going to be on console during the

215

00:10:09,590 --> 00:10:08,079

spacewalks that al drew and steve bowen

216

00:10:10,949 --> 00:10:09,600

will be conducting

217

00:10:11,990 --> 00:10:10,959

there's two of them that will take place

218

00:10:14,069 --> 00:10:12,000

during the

219

00:10:16,470 --> 00:10:14,079

middle portion of this mission

220

00:10:17,990 --> 00:10:16,480

and since cobra was uh

221

00:10:19,590 --> 00:10:18,000

very familiar with the procedures he

222

00:10:21,350 --> 00:10:19,600

helped write them

223

00:10:23,430 --> 00:10:21,360

uh he's going to be on console in the

224

00:10:24,550 --> 00:10:23,440

station flight control room uh helping

225

00:10:29,190 --> 00:10:24,560

the crew work through all the different

226

00:10:34,389 --> 00:10:31,829

use the discovery how you like this view

227

00:10:37,030 --> 00:10:34,399

one half cross hair down please one half

228

00:10:39,750 --> 00:10:37,040

cross hair down inward

229

00:10:42,710 --> 00:10:39,760

and discovery houston for cdr

230

00:10:44,470 --> 00:10:42,720

uh no hurry but we've got a uh special

231

00:10:46,790 --> 00:10:44,480

guest in the uh in the room that would

232

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

like to pass on greetings

233

00:10:50,630 --> 00:10:48,079

he's getting himself pretty deaf well

234

00:10:53,030 --> 00:10:50,640

he'll be able to see right

235

00:10:54,710 --> 00:10:53,040

okay yeah it's uh tell him it's ms2

236

00:10:55,829 --> 00:10:54,720

version one

237

00:10:57,829 --> 00:10:55,839

okay he'll put less effort into the

238

00:10:59,590 --> 00:10:57,839

makeup man

239

00:11:01,430 --> 00:10:59,600

hey steve uh tim i just wanted to tell

240

00:11:02,870 --> 00:11:01,440

you guys you all had an awesome launch

241

00:11:04,470 --> 00:11:02,880

and we're all very proud of you down

242

00:11:06,550 --> 00:11:04,480

here

243

00:11:08,389 --> 00:11:06,560

oh great to hear your voice tim i wish

244

00:11:09,910 --> 00:11:08,399

you were here because i'd send you on

245

00:11:10,949 --> 00:11:09,920

the hunt for the overlay that i'm

246

00:11:13,110 --> 00:11:10,959

missing

247

00:11:15,190 --> 00:11:13,120

but uh anyway appreciate the good words

248

00:11:16,870 --> 00:11:15,200

it was a great launch uh i can't tell

249

00:11:18,550 --> 00:11:16,880

you how much we wish you were here with

250

00:11:20,630 --> 00:11:18,560

us as well

251

00:11:22,150 --> 00:11:20,640

well i'm sure you you know that i feel

252

00:11:23,990 --> 00:11:22,160

the same way but i definitely feel like

253

00:11:26,069 --> 00:11:24,000

i'm there in spirit and i'm especially

254

00:11:31,509 --> 00:11:26,079

looking forward to seeing steve now go

255

00:11:35,350 --> 00:11:33,509

thank you very much jim and uh we really

256

00:11:38,230 --> 00:11:35,360

appreciate you uh being willing to go on

257

00:11:40,069 --> 00:11:38,240

console and help us out during the epas

258

00:11:42,550 --> 00:11:40,079

my pleasure enjoying watching you guys

259

00:11:44,230 --> 00:11:42,560

keep up the great work

260

00:11:46,310 --> 00:11:44,240

hi timmy it's nicole i just want to say

261

00:11:48,550 --> 00:11:46,320

i love you and like steve said we wish

262

00:11:49,990 --> 00:11:48,560

you were here but we are also very happy

263

00:11:51,590 --> 00:11:50,000

that you'll be uh supporting us from the

264

00:11:54,310 --> 00:11:51,600

ground and i look forward to talking to

265

00:11:56,230 --> 00:11:54,320

you on ebay days

266

00:11:59,750 --> 00:11:56,240

love you back and it's going to be a

267

00:12:03,910 --> 00:12:01,670

hey tim it's mike uh we miss your

268

00:12:05,190 --> 00:12:03,920

booming zero g laughter up here and i'll

269

00:12:06,629 --> 00:12:05,200

have to tell you that you're here in a

270

00:12:09,269 --> 00:12:06,639

little bit more than spirit but we'll

271

00:12:10,550 --> 00:12:09,279

have to explain that when we get back

272

00:12:14,310 --> 00:12:10,560

well i'm looking forward to that mike

273

00:12:17,590 --> 00:12:16,230

all right man uh you keep watching us

274

00:12:18,790 --> 00:12:17,600

and we'll try to do our best for you and

275

00:12:21,190 --> 00:12:18,800

make you proud with the plan that you

276

00:12:22,790 --> 00:12:21,200

came up with

277

00:12:25,430 --> 00:12:22,800

sounds good take care of those elements

278

00:12:32,710 --> 00:12:25,440

moving them with the arm

279

00:12:35,670 --> 00:12:34,230

all right discovery just goes to show

280

00:12:42,150 --> 00:12:35,680

you have a seven person crew they're

281

00:12:42,160 --> 00:12:46,870

absolutely

282

00:12:50,470 --> 00:12:48,310

this is mission control houston we want

283

00:12:51,670 --> 00:12:50,480

to step away for uh from the obss

284

00:12:53,910 --> 00:12:51,680

inspection for a few minutes and show

285

00:12:55,910 --> 00:12:53,920

you this live video on board the

286

00:12:57,030 --> 00:12:55,920

international space station the crew is

287

00:13:00,710 --> 00:12:57,040

opening up

288

00:13:02,310 --> 00:13:00,720

the kepler automated transfer vehicle

289

00:13:03,990 --> 00:13:02,320

it arrived at the station yesterday

290

00:13:05,670 --> 00:13:04,000

docked shortly before discovery's

291

00:13:07,750 --> 00:13:05,680

liftoff

292

00:13:10,949 --> 00:13:07,760

but it is uh bringing up several times

293

00:13:12,870 --> 00:13:10,959

to supplies for the crew it is

294

00:13:17,269 --> 00:13:12,880

installed on the back end of the russian

295

00:13:23,190 --> 00:13:20,389

but the crew is busy opening it up and

296

00:13:24,470 --> 00:13:23,200

going inside they've put on some masks a

297

00:13:27,030 --> 00:13:24,480

few minutes ago this is standard

298

00:13:28,470 --> 00:13:27,040

protocol anytime they open up a new

299

00:13:29,590 --> 00:13:28,480

piece of the station or any kind of

300

00:13:32,150 --> 00:13:29,600

vehicle

301  
00:13:33,990 --> 00:13:32,160  
they greets them all that is to do is to

302  
00:13:35,190 --> 00:13:34,000  
protect them from any sort of a dust or

303  
00:13:37,110 --> 00:13:35,200  
debris

304  
00:13:39,509 --> 00:13:37,120  
that could uh come loose

305  
00:13:40,550 --> 00:13:39,519  
during the launch and ascent of that

306  
00:13:41,750 --> 00:13:40,560  
vehicle

307  
00:13:43,910 --> 00:13:41,760  
and of course it would float up in the

308  
00:13:47,670 --> 00:13:43,920  
weightlessness of space but

309  
00:14:09,269 --> 00:13:49,910  
alexander clearly there is preparing the

310  
00:14:14,949 --> 00:14:11,110  
that atv was used this morning to

311  
00:14:17,350 --> 00:14:14,959  
reboost the station's altitude by

312  
00:14:23,430 --> 00:14:17,360  
1.1 statute miles that took place at 4

313  
00:14:27,350 --> 00:14:24,870

the crew's going to be very busy not

314

00:14:29,189 --> 00:14:27,360

only with this sts-133 mission but also

315

00:14:31,590 --> 00:14:29,199

unloading all the different cargo inside

316

00:14:35,509 --> 00:14:31,600

atv i like how is it

317

00:14:42,470 --> 00:14:36,550

smells

318

00:14:42,480 --> 00:14:46,389

one more sample okay

319

00:14:52,069 --> 00:14:49,430

but the heat is not present what about

320

00:14:53,110 --> 00:14:52,079

carbon monoxide

321

00:15:13,750 --> 00:14:53,120

okay

322

00:15:19,590 --> 00:15:15,750

it's huge

323

00:15:19,600 --> 00:15:27,509

what do you think

324

00:15:27,519 --> 00:15:52,069

wow

325

00:15:55,030 --> 00:15:53,749

there's expedition 26 commander scott

326

00:15:56,870 --> 00:15:55,040

kelly there and so you get a sense of

327

00:15:59,030 --> 00:15:56,880

exactly how big this atv actually is

328

00:16:01,110 --> 00:15:59,040

it's uh it's enormous

329

00:16:02,629 --> 00:16:01,120

this place is giant

330

00:16:03,430 --> 00:16:02,639

stuff

331

00:16:06,389 --> 00:16:03,440

and

332

00:16:13,590 --> 00:16:08,629

maybe five months

333

00:16:24,470 --> 00:16:15,670

okay if i remember correctly this guy

334

00:16:24,480 --> 00:16:48,629

is

335

00:16:48,639 --> 00:16:51,990

good

336

00:16:54,870 --> 00:16:53,509

this is mission control houston once

337

00:16:57,749 --> 00:16:54,880

again we're watching playback from the

338

00:16:58,949 --> 00:16:57,759

expedition 26 crew as they opened up the

339

00:17:00,230 --> 00:16:58,959

atv

340

00:17:02,710 --> 00:17:00,240

uh they docked with the station

341

00:17:04,390 --> 00:17:02,720

yesterday they are already busy getting

342

00:17:06,470 --> 00:17:04,400

everything moved out of it

343

00:17:20,150 --> 00:17:06,480

and get all the cargo unloaded and

344

00:17:24,150 --> 00:17:21,750

are we talking eva on air to ground two

345

00:17:29,909 --> 00:17:27,110

uh yes you are okay go ahead

346

00:17:32,710 --> 00:17:29,919

uh e uh emu checkout prep complete and

347

00:17:36,870 --> 00:17:32,720

moving on to emu checkout

348

00:17:40,549 --> 00:17:39,029

well this survey of the orbiter boom

349

00:17:42,390 --> 00:17:40,559

sensor system and the left wing of

350

00:17:43,830 --> 00:17:42,400

shuttle discovery continues the crew

351  
00:17:46,390 --> 00:17:43,840  
inside

352  
00:17:49,590 --> 00:17:46,400  
rapidly moving through the steps to get

353  
00:17:51,990 --> 00:17:49,600  
the two space suits that al drew and

354  
00:17:53,270 --> 00:17:52,000  
steve bowen will be using

355  
00:17:55,270 --> 00:17:53,280  
checked out

356  
00:17:56,549 --> 00:17:55,280  
those are going to be moved across

357  
00:18:00,789 --> 00:17:56,559  
the hatchways

358  
00:18:04,950 --> 00:18:02,789  
as we take a live look outside of

359  
00:18:06,950 --> 00:18:04,960  
discovery's payload bay taking a look at

360  
00:18:08,470 --> 00:18:06,960  
that robotic arm with the orbiter boom

361  
00:18:09,750 --> 00:18:08,480  
sensor system attached at the end of it

362  
00:18:14,310 --> 00:18:09,760  
the crew is steadily working through

363  
00:18:19,750 --> 00:18:17,190

steve lindsey and pilot eric boe are now

364

00:18:23,669 --> 00:18:19,760

maneuvering the robotic arm

365

00:18:26,070 --> 00:18:23,679

to put the obss back onto the starboard

366

00:18:28,470 --> 00:18:26,080

sill of the payload bay and complete

367

00:18:31,110 --> 00:18:28,480

today's operation

368

00:18:32,870 --> 00:18:31,120

this view comes from a camera on the

369

00:18:34,630 --> 00:18:32,880

robotic arm on the

370

00:18:38,390 --> 00:18:34,640

elbow of the arm

371

00:18:41,270 --> 00:18:38,400

looking down the forearm you can see the

372

00:18:44,870 --> 00:18:41,280

the end effector where it is uh

373

00:18:47,110 --> 00:18:44,880

has a grip on the end of the obss

374

00:18:50,230 --> 00:18:47,120

and as lindsey and bo get it lined up

375

00:18:52,789 --> 00:18:50,240

they'll be lowering the obss back into a

376

00:18:54,230 --> 00:18:52,799

set of cradles along that starboard side

377

00:18:56,230 --> 00:18:54,240

of the sill

378

00:18:58,070 --> 00:18:56,240

today's inspection all went without any

379

00:18:59,669 --> 00:18:58,080

uh without any hitches there were no

380

00:19:01,830 --> 00:18:59,679

reports of any

381

00:19:04,390 --> 00:19:01,840

problems with the systems as the

382

00:19:05,350 --> 00:19:04,400

inspection was conducted uh to include

383

00:19:15,909 --> 00:19:05,360

the

384

00:19:18,549 --> 00:19:15,919

tiles

385

00:19:20,310 --> 00:19:18,559

and to at least the untrained eye there

386

00:19:22,150 --> 00:19:20,320

was no indication

387

00:19:24,150 --> 00:19:22,160

seen of any areas