



1  
00:00:21,189 --> 00:00:03,750  
hi i'm steve bowen with the sts-133 crew

2  
00:00:21,199 --> 00:00:28,790  
good morning discovery

3  
00:00:32,630 --> 00:00:30,790  
good morning shannon thank you for that

4  
00:00:38,630 --> 00:00:32,640  
wake up music today we really appreciate

5  
00:00:42,150 --> 00:00:40,709  
view here from the cameras on the

6  
00:00:44,069 --> 00:00:42,160  
exterior of the international space

7  
00:00:46,709 --> 00:00:44,079  
station looking down at the earth from a

8  
00:00:48,630 --> 00:00:46,719  
distance of 219 miles up

9  
00:00:50,229 --> 00:00:48,640  
at angola

10  
00:00:51,670 --> 00:00:50,239  
shuttle and station shuttle and station

11  
00:00:53,029 --> 00:00:51,680  
are just crossing over the coast of

12  
00:00:56,790 --> 00:00:53,039  
africa and will be

13  
00:00:58,470 --> 00:00:56,800

heading uh south uh northeast across it

14

00:01:07,590 --> 00:00:58,480

towards saudi arabia for the next few

15

00:01:11,190 --> 00:01:09,030

the crew is working there inside the

16

00:01:13,190 --> 00:01:11,200

destiny laboratory this was the scene of

17

00:01:14,870 --> 00:01:13,200

quite a bit of activity yesterday

18

00:01:16,870 --> 00:01:14,880

as the crew worked on the carbon dioxide

19

00:01:19,429 --> 00:01:16,880

removal assembly which is located there

20

00:01:21,910 --> 00:01:19,439

there's uh also another one

21

00:01:23,670 --> 00:01:21,920

inside the tranquility node

22

00:01:25,350 --> 00:01:23,680

we talked about this earlier but all the

23

00:01:26,710 --> 00:01:25,360

different environmental systems on board

24

00:01:28,469 --> 00:01:26,720

the station are

25

00:01:30,950 --> 00:01:28,479

back up and running

26  
00:01:32,870 --> 00:01:30,960  
in tip-top shape except for the electron

27  
00:01:34,710 --> 00:01:32,880  
system

28  
00:01:36,710 --> 00:01:34,720  
this is the russian

29  
00:01:37,670 --> 00:01:36,720  
oxygen generation

30  
00:01:39,990 --> 00:01:37,680  
system

31  
00:01:42,789 --> 00:01:40,000  
it's often that part of the segment of

32  
00:01:44,230 --> 00:01:42,799  
the space station

33  
00:01:46,310 --> 00:01:44,240  
but both uh

34  
00:01:47,910 --> 00:01:46,320  
u.s carbon dioxide removal assemblies

35  
00:01:50,630 --> 00:01:47,920  
are up and running the u.s oxygen

36  
00:01:52,550 --> 00:01:50,640  
generator assembly is up and running

37  
00:01:54,630 --> 00:01:52,560  
and the russian vosdeux system which is

38  
00:01:59,590 --> 00:01:54,640

their carbon dioxide removal

39

00:02:03,350 --> 00:02:01,590

as we continue to take a look inside the

40

00:02:08,070 --> 00:02:03,360

destiny laboratory and also looking back

41

00:02:11,589 --> 00:02:10,070

a piece of interesting trivia for you in

42

00:02:15,830 --> 00:02:11,599

terms of the weight of the international

43

00:02:18,550 --> 00:02:15,840

space station right now it is at 1.135

44

00:02:20,150 --> 00:02:18,560

million pounds

45

00:02:21,430 --> 00:02:20,160

after discovery undocks obviously it

46

00:02:23,589 --> 00:02:21,440

will lose the weight of the shuttle so

47

00:02:26,070 --> 00:02:23,599

it will weigh 919

48

00:02:29,030 --> 00:02:26,080

000 pounds

49

00:02:34,949 --> 00:02:30,750

after the soyuz

50

00:02:37,830 --> 00:02:34,959

tma-01m undocks it'll go down to 905 000

51

00:02:40,150 --> 00:02:37,840

pounds

52

00:02:44,070 --> 00:02:40,160

and then after htv is released it will

53

00:02:45,990 --> 00:02:44,080

go to 878 000 pounds so

54

00:02:48,070 --> 00:02:46,000

the international space station waffling

55

00:02:52,309 --> 00:02:48,080

back and forth between about 800 and

56

00:02:54,390 --> 00:02:52,319

roughly 78 thousand pounds and 1.135

57

00:02:57,270 --> 00:02:54,400

million pounds now with the shuttle

58

00:02:58,630 --> 00:02:57,280

it is a quite a huge complex spread out

59

00:03:01,190 --> 00:02:58,640

over

60

00:03:03,509 --> 00:03:01,200

several stories

61

00:03:48,390 --> 00:03:03,519

and weighing in at

62

00:03:52,229 --> 00:03:50,229

good morning nicole

63

00:03:54,309 --> 00:03:52,239

happy uh flight day 11 if you can

64

00:03:57,270 --> 00:03:54,319

believe that and ready to copy your

65

00:04:02,630 --> 00:04:00,630

yes it is a happy flight day 11 and i

66

00:04:06,229 --> 00:04:02,640

did this a little bit earlier

67

00:04:09,670 --> 00:04:06,239

for glacier let's see the

68

00:04:16,550 --> 00:04:09,680

forward unit time 958

69

00:04:19,590 --> 00:04:18,229

this is mission control houston taking a

70

00:04:21,749 --> 00:04:19,600

live look at the international space

71

00:04:22,629 --> 00:04:21,759

station you can see the quest airlock

72

00:04:26,230 --> 00:04:22,639

there

73

00:04:28,710 --> 00:04:27,590

that's the permanent multi-purpose

74

00:04:29,990 --> 00:04:28,720

module sticking up there but it's

75

00:04:34,070 --> 00:04:30,000

actually pointing down toward earth

76  
00:04:37,189 --> 00:04:34,080  
because this camera view is uh rotated

77  
00:04:39,590 --> 00:04:37,199  
you can also see the uh soyuz tma-20

78  
00:04:41,670 --> 00:04:39,600  
that is katie coleman apollo nespoli and

79  
00:04:46,629 --> 00:04:41,680  
dimitri candratia's vehicle

80  
00:04:52,230 --> 00:04:48,469  
the crew is busy inside working on some

81  
00:04:56,390 --> 00:04:54,469  
go ahead houston

82  
00:04:59,030 --> 00:04:56,400  
yeah scott we don't have any paperwork

83  
00:05:01,110 --> 00:04:59,040  
for uh transferring uh razors on this

84  
00:05:06,070 --> 00:05:01,120  
mission so

85  
00:05:12,629 --> 00:05:06,080  
stow them in the broken item ctb 1283

86  
00:05:12,639 --> 00:05:24,950  
copy that

87  
00:05:29,270 --> 00:05:27,270  
station houston on two for paulo no need

88  
00:05:33,189 --> 00:05:29,280

to come to the microphone right now

89

00:05:35,029 --> 00:05:33,199

but that cwci right behind you is

90

00:05:36,390 --> 00:05:35,039

uh in its final fill if you could just

91

00:05:37,909 --> 00:05:36,400

keep an eye on it now and then from the

92

00:05:59,990 --> 00:05:37,919

last eight minutes to make sure it's not

93

00:06:03,749 --> 00:06:02,390

and katie we've got you on calm uh i

94

00:06:05,670 --> 00:06:03,759

understand you got to rush off and do a

95

00:06:08,710 --> 00:06:05,680

spinal measurement but when you get time

96

00:06:11,350 --> 00:06:08,720

we are ready for the cwci

97

00:06:12,790 --> 00:06:11,360

fill steps five and six

98

00:06:14,870 --> 00:06:12,800

and also looking way ahead in your

99

00:06:16,230 --> 00:06:14,880

timeline for condensate pumping uh

100

00:06:18,070 --> 00:06:16,240

that's like two hours from now but we

101  
00:06:21,270 --> 00:06:18,080  
will be ready for step five of that when

102  
00:06:23,350 --> 00:06:21,280  
you are

103  
00:06:26,070 --> 00:06:23,360  
you're saying that you're ready for the

104  
00:06:27,670 --> 00:06:26,080  
condensate to be terminated any time is

105  
00:06:31,749 --> 00:06:27,680  
that correct

106  
00:06:35,590 --> 00:06:33,189  
okay sounds like that could probably

107  
00:06:36,950 --> 00:06:35,600  
wait a little bit um but the cwci maybe

108  
00:06:43,510 --> 00:06:36,960  
we should just terminate that before we

109  
00:06:46,469 --> 00:06:44,870  
and katie we would appreciate it if you

110  
00:06:49,270 --> 00:06:46,479  
could disconnect it before you head over

111  
00:06:50,950 --> 00:06:49,280  
to shuttle

112  
00:06:53,510 --> 00:06:50,960  
we'd all feel better okay thanks very

113  
00:06:55,510 --> 00:06:53,520

much and uh for the storage folks uh

114

00:06:58,390 --> 00:06:55,520

i mean for lisa and all the other folks

115

00:07:01,589 --> 00:06:58,400

there um again just thank you so much um

116

00:07:02,790 --> 00:07:01,599

got a little i'll do some cleaning up in

117

00:07:05,189 --> 00:07:02,800

in terms of putting those big phone

118

00:07:06,629 --> 00:07:05,199

boxes back in there um so it doesn't

119

00:07:09,189 --> 00:07:06,639

look so undone

120

00:07:11,430 --> 00:07:09,199

but uh you know the plans i thought were

121

00:07:13,110 --> 00:07:11,440

excellent and the amount of work that we

122

00:07:15,510 --> 00:07:13,120

all got done as

123

00:07:17,430 --> 00:07:15,520

one giant crew was i mean it was awesome

124

00:07:19,270 --> 00:07:17,440

to be here yesterday

125

00:07:21,749 --> 00:07:19,280

people just were you know working

126  
00:07:24,950 --> 00:07:21,759  
everywhere wrenches were flying i mean

127  
00:07:27,270 --> 00:07:24,960  
it was just fun and i think uh really as

128  
00:07:28,870 --> 00:07:27,280  
much as it could have gotten done got

129  
00:07:30,710 --> 00:07:28,880  
done because you gave us some really

130  
00:07:33,830 --> 00:07:30,720  
great plans and we're in just awesome

131  
00:08:04,230 --> 00:07:33,840  
shape for the improvement so thank you

132  
00:08:07,990 --> 00:08:05,990  
and again our live look inside the

133  
00:08:10,390 --> 00:08:08,000  
destiny module

134  
00:08:13,830 --> 00:08:10,400  
some of the last transfers being moved

135  
00:08:18,629 --> 00:08:15,830  
station commander scott kelly

136  
00:08:26,390 --> 00:08:18,639  
and mission specialist steve bowen

137  
00:08:33,029 --> 00:08:30,390  
we're just under 47 minutes now from the

138  
00:08:37,670 --> 00:08:33,039

farewell ceremony for discoveries

139

00:08:41,670 --> 00:08:39,670

that'll happen in the destiny module and

140

00:08:43,990 --> 00:08:41,680

then the crews will move here

141

00:08:46,630 --> 00:08:44,000

into node number two

142

00:08:47,590 --> 00:08:46,640

through this hatch down into pma number

143

00:08:49,269 --> 00:08:47,600

two

144

00:08:50,550 --> 00:08:49,279

and through that hatch where that bag is

145

00:08:52,550 --> 00:08:50,560

going now

146

00:09:03,750 --> 00:08:52,560

they'll enter shuttle discovery's

147

00:09:14,949 --> 00:09:06,310

timeline calls for the farewell ceremony

148

00:09:14,959 --> 00:09:18,710

and for

149

00:09:24,070 --> 00:09:20,630

scott kelly and paolo nespoli on the

150

00:09:25,590 --> 00:09:24,080

station side steve lindsey and al drew

151  
00:09:28,470 --> 00:09:25,600  
on the shuttle side

152  
00:09:31,509 --> 00:09:28,480  
to begin working through their hatch

153  
00:09:43,350 --> 00:09:33,829  
that's scheduled to kick off

154  
00:09:47,910 --> 00:09:45,590  
this camera is located near the deck in

155  
00:09:50,470 --> 00:09:47,920  
the unity module looking through the

156  
00:09:51,269 --> 00:09:50,480  
hatch forward in the station through

157  
00:09:52,389 --> 00:09:51,279  
the

158  
00:09:53,990 --> 00:09:52,399  
lab

159  
00:09:57,110 --> 00:09:54,000  
and then through the other hatch we can

160  
00:09:58,230 --> 00:09:57,120  
see crew members in node two

161  
00:10:00,150 --> 00:09:58,240  
with uh

162  
00:10:08,389 --> 00:10:00,160  
station commander scott kelly who's just

163  
00:10:12,150 --> 00:10:10,310

crew members are ticking off the last of

164

00:10:14,389 --> 00:10:12,160

the preparations

165

00:10:15,350 --> 00:10:14,399

the rendezvous tools checkout by steve

166

00:10:16,790 --> 00:10:15,360

bowen

167

00:10:21,509 --> 00:10:16,800

and mike barrett

168

00:10:25,030 --> 00:10:23,350

paulo nespoli and steve lindsey are

169

00:10:26,470 --> 00:10:25,040

wrapping up the

170

00:10:37,110 --> 00:10:26,480

tear down of the

171

00:10:41,030 --> 00:10:39,509

now about uh 41 minutes away from the

172

00:10:43,110 --> 00:10:41,040

scheduled start

173

00:11:04,230 --> 00:10:43,120

of our fairness which will take place

174

00:11:08,870 --> 00:11:06,069

and station houston space ground two for

175

00:11:11,030 --> 00:11:08,880

o2 tear down looking ahead when you get

176  
00:12:14,389 --> 00:11:11,040  
to step 4.5 if you'll give us a call

177  
00:12:17,350 --> 00:12:16,230  
only about a half an hour away from now

178  
00:12:19,509 --> 00:12:17,360  
from the

179  
00:12:21,030 --> 00:12:19,519  
farewell ceremony you can see the

180  
00:12:23,590 --> 00:12:21,040  
shuttle crew members and station

181  
00:12:26,069 --> 00:12:23,600  
commander scott kelly

182  
00:12:28,150 --> 00:12:26,079  
making the best of the

183  
00:12:29,829 --> 00:12:28,160  
time that they have left

184  
00:12:32,389 --> 00:12:29,839  
and their this

185  
00:12:39,910 --> 00:12:32,399  
workout going on now inside the

186  
00:12:45,430 --> 00:12:42,389  
you can see that the uh

187  
00:12:47,030 --> 00:12:45,440  
the lay of the land as it were is uh

188  
00:12:49,590 --> 00:12:47,040

changed dramatically

189

00:12:51,829 --> 00:12:49,600

over the course of the past several days

190

00:12:54,069 --> 00:12:51,839

as the shuttle crew members and their

191

00:12:56,069 --> 00:12:54,079

station colleagues have been

192

00:12:58,069 --> 00:12:56,079

unpacking and

193

00:12:59,990 --> 00:12:58,079

re-outfitting this module getting all of

194

00:13:01,750 --> 00:13:00,000

the racks in place and

195

00:13:03,910 --> 00:13:01,760

getting a lot of the packing materials

196

00:13:05,670 --> 00:13:03,920

out of the way so that there is a lot

197

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

more space available

198

00:13:09,509 --> 00:13:07,760

here in the in the center of this new

199

00:13:12,870 --> 00:13:09,519

module

200

00:13:19,590 --> 00:13:16,790

of 15 feet in diameter and 21 feet long

201  
00:13:21,509 --> 00:13:19,600  
from approximately this camera position

202  
00:13:22,710 --> 00:13:21,519  
to just be on steve bowen in the

203  
00:13:24,310 --> 00:13:22,720  
background

204  
00:13:44,389 --> 00:13:24,320  
about the same size as the columbus

205  
00:13:50,230 --> 00:13:46,310  
steve bowen in the foreground

206  
00:13:53,590 --> 00:13:51,430  
with a uh

207  
00:13:58,790 --> 00:13:53,600  
taking a final few laps around the

208  
00:14:02,870 --> 00:14:00,230  
we're

209  
00:14:04,870 --> 00:14:02,880  
just about a half an hour away from the

210  
00:14:06,069 --> 00:14:04,880  
farewell ceremony as discoveries

211  
00:14:08,629 --> 00:14:06,079  
astronauts

212  
00:14:11,590 --> 00:14:08,639  
uh bid their last goodbyes to the

213  
00:14:13,990 --> 00:14:11,600

expedition 26 crew before they head back

214

00:14:16,310 --> 00:14:14,000

into the shuttle and the hatches between

215

00:14:18,870 --> 00:14:16,320

those two vehicles will be closed for

216

00:14:32,470 --> 00:14:18,880

undocking tomorrow morning at six

217

00:14:36,949 --> 00:14:35,430

houston on two for o2 transfer looking

218

00:14:54,230 --> 00:14:36,959

ahead we've got a

219

00:14:59,910 --> 00:14:57,670

step four getting ready to do 4.2 in

220

00:15:02,150 --> 00:14:59,920

just a second

221

00:15:04,790 --> 00:15:02,160

so we'll we'll give you that in a minute

222

00:15:11,189 --> 00:15:04,800

and then you can do uh

223

00:15:16,150 --> 00:15:13,110

that's a good plan we'll be waiting

224

00:15:39,910 --> 00:15:16,160

looking ahead step 6.1 we think will not

225

00:16:03,269 --> 00:15:41,829

discovery houston on the big loop for

226

00:16:06,310 --> 00:16:04,629

go ahead megan

227

00:16:08,310 --> 00:16:06,320

hey nicole i hate to ring the recess

228

00:16:10,790 --> 00:16:08,320

bell on you but we only got about 15

229

00:16:13,110 --> 00:16:10,800

minutes left before an extended los and

230

00:16:16,389 --> 00:16:13,120

we have a liz here for the transfer

231

00:16:18,069 --> 00:16:16,399

brief before hatches close

232

00:16:20,389 --> 00:16:18,079

okay copy that let me run back over to

233

00:16:26,150 --> 00:16:20,399

the orbiter and i'll give you a call

234

00:16:31,350 --> 00:16:27,509

for the last couple of minutes we've

235

00:16:32,550 --> 00:16:31,360

been watching mike barrett and eric bowe

236

00:16:35,430 --> 00:16:32,560

having

237

00:16:37,829 --> 00:16:35,440

a last bit of fun inside the permanent

238

00:16:40,069 --> 00:16:37,839

multi-purpose module

239

00:16:53,910 --> 00:16:40,079

station commander scott kelly now

240

00:16:57,749 --> 00:16:55,269

shuttle crew members have been taking

241

00:16:59,590 --> 00:16:57,759

advantage of this wide open space that

242

00:17:01,670 --> 00:16:59,600

they've delivered

243

00:17:04,549 --> 00:17:01,680

the addition of nearly

244

00:17:06,069 --> 00:17:04,559

2 500 cubic feet of pressurized

245

00:17:10,949 --> 00:17:06,079

volume to the international space

246

00:17:16,309 --> 00:17:14,069

as you just heard megan macarthur

247

00:17:17,750 --> 00:17:16,319

checking in with nicole stott to remind

248

00:17:19,110 --> 00:17:17,760

her that they need one more quick

249

00:17:21,429 --> 00:17:19,120

transfer briefing

250

00:17:23,510 --> 00:17:21,439

before the hatches close

251

00:17:25,350 --> 00:17:23,520

the fair farewell ceremony for

252

00:17:30,789 --> 00:17:25,360

discoveries astronauts is scheduled to

253

00:17:34,230 --> 00:17:32,630

discovery houston i'm on underground one

254

00:17:36,230 --> 00:17:34,240

ready for transfer

255

00:17:38,630 --> 00:17:36,240

in our live view inside the destiny

256

00:17:40,789 --> 00:17:38,640

module all 12 crew members are gathering

257

00:17:43,190 --> 00:17:40,799

together

258

00:17:45,350 --> 00:17:43,200

we try to get everybody set

259

00:17:58,230 --> 00:17:45,360

farewell ceremony for the discovery

260

00:18:01,190 --> 00:17:59,590

all right well welcome aboard the space

261

00:18:03,430 --> 00:18:01,200

station um

262

00:18:05,270 --> 00:18:03,440

we've spent how many days here

263

00:18:06,789 --> 00:18:05,280

i don't know seven days eight days

264

00:18:09,029 --> 00:18:06,799

something like that

265

00:18:10,870 --> 00:18:09,039

we delivered the last pressurized module

266

00:18:13,029 --> 00:18:10,880

we delivered the elc-4 we did a whole

267

00:18:14,710 --> 00:18:13,039

bunch of transfer and we outfitted the

268

00:18:16,230 --> 00:18:14,720

pmm as best we could with the time

269

00:18:17,909 --> 00:18:16,240

available and

270

00:18:19,270 --> 00:18:17,919

scott it was a pleasure to be up here we

271

00:18:20,549 --> 00:18:19,280

appreciate your hospitality we

272

00:18:22,870 --> 00:18:20,559

appreciate you putting up with us

273

00:18:25,590 --> 00:18:22,880

knocking your stuff off the walls and

274

00:18:28,230 --> 00:18:25,600

generally trashing your station doubling

275

00:18:29,909 --> 00:18:28,240

doubling the number of people and we

276

00:18:31,270 --> 00:18:29,919

appreciate you guys letting us float

277

00:18:33,830 --> 00:18:31,280

down to the service module and get in

278

00:18:35,510 --> 00:18:33,840

your way as well and

279

00:18:38,310 --> 00:18:35,520

on behalf of the crew we had a great

280

00:18:40,230 --> 00:18:38,320

time we appreciate the hospitality and

281

00:18:42,070 --> 00:18:40,240

enjoyed the crew meals together and uh

282

00:18:46,070 --> 00:18:42,080

and we're gonna miss you guys and so

283

00:18:51,110 --> 00:18:48,470

i'd like to say that

284

00:18:53,350 --> 00:18:51,120

it was a very successful time on board

285

00:18:55,510 --> 00:18:53,360

with you guys we really enjoyed

286

00:18:57,029 --> 00:18:55,520

having guests this is the first group of

287

00:19:00,710 --> 00:18:57,039

guests i've had in

288

00:19:03,510 --> 00:19:00,720

about 150 days since i've been up here

289

00:19:04,710 --> 00:19:03,520

and uh we're going to miss you but uh

290

00:19:07,990 --> 00:19:04,720

most of all we're going to miss

291

00:19:08,789 --> 00:19:08,000

discovery and discovery has been a great

292

00:19:10,710 --> 00:19:08,799

ship

293

00:19:13,430 --> 00:19:10,720

and has really supported the

294

00:19:14,870 --> 00:19:13,440

international space station more so than

295

00:19:17,430 --> 00:19:14,880

i think any other

296

00:19:18,870 --> 00:19:17,440

any other space shuttle and

297

00:19:36,310 --> 00:19:18,880

we wish her

298

00:19:41,350 --> 00:19:38,870

final handshakes and hugs as the

299

00:19:42,789 --> 00:19:41,360

space shuttle discovery crew members get

300

00:19:46,950 --> 00:19:42,799

ready to

301  
00:19:50,870 --> 00:19:48,630  
shuttle commander steve lindsey and

302  
00:19:52,710 --> 00:19:50,880  
station commander scott kelly both

303  
00:19:53,750 --> 00:19:52,720  
expressing their thanks to the ground

304  
00:19:55,270 --> 00:19:53,760  
team

305  
00:20:01,110 --> 00:19:55,280  
to

306  
00:20:07,110 --> 00:20:03,190  
our camera view now is from inside the

307  
00:20:09,990 --> 00:20:07,120  
harmony module looking forward

308  
00:20:12,870 --> 00:20:10,000  
the hatch in the background

309  
00:20:14,789 --> 00:20:12,880  
leads into a permanent uh pressurized

310  
00:20:16,470 --> 00:20:14,799  
mating adapter number two

311  
00:20:18,549 --> 00:20:16,480  
which is attached to the space shuttle's

312  
00:20:20,710 --> 00:20:18,559  
orbiter docking system

313  
00:20:40,950 --> 00:20:20,720

and that is the that will be the exit

314

00:20:45,590 --> 00:20:42,870

and from this view that is pointed down

315

00:20:49,990 --> 00:20:47,350

the transfer path between the two

316

00:20:52,149 --> 00:20:50,000

vehicles you can see

317

00:20:54,310 --> 00:20:52,159

over scott kelly's shoulder

318

00:20:59,430 --> 00:20:54,320

the shuttle crew members moving back on

319

00:21:02,470 --> 00:21:00,950

once everyone's on the right side of the

320

00:21:05,270 --> 00:21:02,480

hatches kelly

321

00:21:07,350 --> 00:21:05,280

and paolo nespoli will be working to

322

00:21:09,430 --> 00:21:07,360

close the hatch that we see

323

00:21:12,149 --> 00:21:09,440

down beyond steve lindsey that's the

324

00:21:14,630 --> 00:21:12,159

forward hatch on the pma

325

00:21:16,789 --> 00:21:14,640

lindsay and al drew will be working on

326

00:21:18,870 --> 00:21:16,799

the shuttle side of that interface

327

00:21:39,190 --> 00:21:18,880

closing the hatch to the orbiter docking

328

00:21:45,110 --> 00:21:41,669

shuttle capcom megan macarthur with an

329

00:21:47,029 --> 00:21:45,120

update to the procedures for al drew and

330

00:21:48,870 --> 00:21:47,039

nicole stott who are scheduled to

331

00:21:51,510 --> 00:21:48,880

install the center line camera in the

332

00:21:54,630 --> 00:21:51,520

orbiter docking system uh starting in

333

00:21:59,830 --> 00:21:57,190

that's the same camera that was used for

334

00:22:03,990 --> 00:21:59,840

the rendezvous and docking and is being

335

00:22:09,029 --> 00:22:06,630

the shuttle pilot eric bowe who will be

336

00:22:11,510 --> 00:22:09,039

at the controls of the vehicle tomorrow

337

00:22:14,149 --> 00:22:11,520

will have that view available to him as

338

00:22:17,830 --> 00:22:14,159

well and that camera will also be

339

00:22:23,669 --> 00:22:17,840

capturing images of the station as the

340

00:22:29,990 --> 00:22:26,870

step 19 of the hatch closing procedure

341

00:22:32,149 --> 00:22:30,000

is closing the node 2 forward hatch

342

00:22:33,190 --> 00:22:32,159

so kelly and nespoli now getting ready

343

00:22:34,870 --> 00:22:33,200

to

344

00:22:35,669 --> 00:22:34,880

move through just a handful of steps

345

00:22:36,870 --> 00:22:35,679

here

346

00:22:39,110 --> 00:22:36,880

to

347

00:23:00,390 --> 00:22:39,120

pull that forward hatch in the node 2

348

00:23:04,470 --> 00:23:03,190

once they have removed all loose objects

349

00:23:07,270 --> 00:23:04,480

in there

350

00:23:09,110 --> 00:23:07,280

the next step is to perform a hatch seal

351  
00:23:11,990 --> 00:23:09,120  
inspection

352  
00:23:14,630 --> 00:23:12,000  
make sure there's no debris

353  
00:24:29,990 --> 00:23:14,640  
so that they get a good airtight seal

354  
00:24:34,390 --> 00:24:31,510  
space shuttle discovery and the

355  
00:24:37,590 --> 00:24:34,400  
international space station are 219

356  
00:24:39,430 --> 00:24:37,600  
miles above the western pacific ocean

357  
00:24:42,070 --> 00:24:39,440  
just starting a

358  
00:24:44,710 --> 00:24:42,080  
trek across the ocean that will see them

359  
00:24:46,549 --> 00:24:44,720  
make landfall in the central washington

360  
00:24:48,310 --> 00:24:46,559  
coast

361  
00:24:49,269 --> 00:24:48,320  
then fly over

362  
00:25:06,310 --> 00:24:49,279  
the

363  
00:25:09,830 --> 00:25:06,320

have been closed since 3 11 houston time

364

00:25:15,750 --> 00:25:13,430

wrapping up seven days 23 hours and 55

365

00:25:23,430 --> 00:25:15,760

minutes of hatch open time between the

366

00:25:27,590 --> 00:25:24,870

and this is a live

367

00:25:29,830 --> 00:25:27,600

look at the international space station

368

00:25:32,789 --> 00:25:29,840

the camera located out on the starboard

369

00:25:36,950 --> 00:25:35,350

station's quest airlock is right in the

370

00:25:38,950 --> 00:25:36,960

center of the frame

371

00:25:41,430 --> 00:25:38,960

and near the top the new permanent

372

00:25:43,830 --> 00:25:41,440

multi-purpose module

373

00:25:46,149 --> 00:25:43,840

attached by the

374

00:25:54,230 --> 00:25:46,159

space shuttle crew and

375

00:26:00,149 --> 00:25:56,430

this view is from uh

376

00:26:01,990 --> 00:26:00,159

217 miles above the uh northern pacific

377

00:26:04,549 --> 00:26:02,000

ocean