



1
00:00:07,050 --> 00:00:05,490
good afternoon to you from the Johnson

2
00:00:08,640 --> 00:00:07,060
Space Center welcome to today's mission

3
00:00:11,640 --> 00:00:08,650
status briefing as we take a look at

4
00:00:12,839 --> 00:00:11,650
sts-133 the crews are about to a safer

5
00:00:14,279 --> 00:00:12,849
well to each other here within the

6
00:00:16,410 --> 00:00:14,289
coming hours and here to give us an

7
00:00:18,450 --> 00:00:16,420
update on all that activity is the lead

8
00:00:20,519 --> 00:00:18,460
shuttle flight director Brian lang go

9
00:00:21,870 --> 00:00:20,529
ahead Brian Thank You Josh well good

10
00:00:23,939 --> 00:00:21,880
afternoon thank you for being here

11
00:00:25,409 --> 00:00:23,949
things are going very well in space

12
00:00:27,509 --> 00:00:25,419
today as y'all probably are well aware

13
00:00:28,650 --> 00:00:27,519

the vehicles are all doing great i'll

14

00:00:30,329 --> 00:00:28,660

talk a little bit more about that in a

15

00:00:32,609 --> 00:00:30,339

minute the mission as you know is going

16

00:00:34,650 --> 00:00:32,619

extremely well we've accomplished our

17

00:00:35,990 --> 00:00:34,660

two edas and all the tests associated

18

00:00:39,180 --> 00:00:36,000

with those and those went very well

19

00:00:41,370 --> 00:00:39,190

we've done our two installs of the pmm

20

00:00:43,560 --> 00:00:41,380

and the ELC and that went very well so

21

00:00:45,000 --> 00:00:43,570

all in all things are going great the

22

00:00:47,070 --> 00:00:45,010

cruzin a little bit of off duty right

23

00:00:50,160 --> 00:00:47,080

now getting prepped for hatch closing

24

00:00:52,230 --> 00:00:50,170

later today some specifics on the

25

00:00:55,860 --> 00:00:52,240

activities today the crew woke up about

26

00:00:57,540 --> 00:00:55,870

223 central Central Time the farewell

27

00:01:01,140 --> 00:00:57,550

ceremony and hatch closure will occur

28

00:01:04,530 --> 00:01:01,150

about 230-3 so about 12 hours later crew

29

00:01:06,300 --> 00:01:04,540

sleep is at 623 this evening the final

30

00:01:09,000 --> 00:01:06,310

activities we got some final stowage

31

00:01:11,430 --> 00:01:09,010

items to take care of and just then just

32

00:01:13,110 --> 00:01:11,440

to get the hatch is closed tomorrow

33

00:01:15,690 --> 00:01:13,120

we're going to wake up crew wake is at

34

00:01:17,460 --> 00:01:15,700

same time 223 central we're going to

35

00:01:19,770 --> 00:01:17,470

plan for undock right around six a.m.

36

00:01:22,050 --> 00:01:19,780

central which is about six minutes prior

37

00:01:23,850 --> 00:01:22,060

to prior to orbital midnight we did move

38

00:01:26,340 --> 00:01:23,860

that a few minutes earlier than typical

39

00:01:29,399 --> 00:01:26,350

for some to ensure we had good calm with

40

00:01:31,140 --> 00:01:29,409

both vehicles step one will occur will

41

00:01:33,120 --> 00:01:31,150

do a full lap fly around like we

42

00:01:34,800 --> 00:01:33,130

typically do with the shuttle and step

43

00:01:36,180 --> 00:01:34,810

one will occur on the + B bar it's about

44

00:01:38,550 --> 00:01:36,190

a one and a half foot per second burn

45

00:01:40,380 --> 00:01:38,560

set to we're going to do as a retrograde

46

00:01:42,690 --> 00:01:40,390

burn it'll be about a three foot per

47

00:01:44,940 --> 00:01:42,700

second and this is a setup orbital just

48

00:01:46,500 --> 00:01:44,950

burns that are injured flight director

49

00:01:49,110 --> 00:01:46,510

Tony ciccotti has been coordinating with

50

00:01:51,719 --> 00:01:49,120

his team we will begin our late

51
00:01:53,250 --> 00:01:51,729
inspection about 1048 central time when

52
00:01:56,340 --> 00:01:53,260
we'll wrap that up about five hours

53
00:01:59,940 --> 00:01:56,350
later at 348 Central times with the crew

54
00:02:01,770 --> 00:01:59,950
sleep about 623 tomorrow night discovery

55
00:02:04,920 --> 00:02:01,780
in our systems continue just to perform

56
00:02:07,350 --> 00:02:04,930
flawlessly she is doing great systems

57
00:02:08,999 --> 00:02:07,360
wise the discoveries just in great shape

58
00:02:12,179 --> 00:02:09,009
and we're really pleased with all that

59
00:02:14,190 --> 00:02:12,189
obviously ISS is in great shape we hung

60
00:02:14,430 --> 00:02:14,200
around an extra day as you well know to

61
00:02:16,020 --> 00:02:14,440
spin

62
00:02:18,270 --> 00:02:16,030
some time getting the pmm outfitted to

63
00:02:19,710 --> 00:02:18,280

get the HTV packed up and just to help

64

00:02:22,560 --> 00:02:19,720

out the increment cruise which we have

65

00:02:24,450 --> 00:02:22,570

done and the cruise the extra six bodies

66

00:02:26,850 --> 00:02:24,460

on board for an extra day they are able

67

00:02:28,770 --> 00:02:26,860

to get through a great deal of extra

68

00:02:31,170 --> 00:02:28,780

work for the increment stage crew and

69

00:02:32,220 --> 00:02:31,180

now they're looking ahead thinking

70

00:02:35,040 --> 00:02:32,230

things are going to look really good in

71

00:02:37,290 --> 00:02:35,050

the increment stage folks going to be

72

00:02:40,170 --> 00:02:37,300

really good shape to get on with the

73

00:02:42,210 --> 00:02:40,180

rest of the activities prior to 24 s

74

00:02:44,100 --> 00:02:42,220

departure than hdv departure and a

75

00:02:47,250 --> 00:02:44,110

number of more activities coming in and

76

00:02:48,330 --> 00:02:47,260

marcher transfer numbers I thought I'd

77

00:02:50,400 --> 00:02:48,340

bring you some numbers because I know

78

00:02:52,650 --> 00:02:50,410

you guys like to write all those down of

79

00:02:55,350 --> 00:02:52,660

course the pmm came in at 21 thousand

80

00:02:57,630 --> 00:02:55,360

eight hundred and seventeen pounds the

81

00:02:58,860 --> 00:02:57,640

Express logistics carrier number four of

82

00:03:03,450 --> 00:02:58,870

course we installed that on flight day

83

00:03:05,870 --> 00:03:03,460

three was 7611 pounds the shuttle

84

00:03:09,270 --> 00:03:05,880

mid-deck dice escargot we transferred

85

00:03:11,820 --> 00:03:09,280

2031 pounds and then back on the shuttle

86

00:03:14,070 --> 00:03:11,830

from ISS we transfer in two thousand

87

00:03:15,390 --> 00:03:14,080

five hundred ninety nine pounds we'll

88

00:03:19,199 --> 00:03:15,400

look for an extra pound of color and

89

00:03:22,050 --> 00:03:19,209

even 2600 supply water we were able to

90

00:03:25,440 --> 00:03:22,060

transfer 853 pounds on the station in

91

00:03:28,500 --> 00:03:25,450

various ways we also provide them with

92

00:03:31,920 --> 00:03:28,510

78 pounds of compensate and a couple of

93

00:03:36,000 --> 00:03:31,930

bags on the gases for nitrogen we put a

94

00:03:38,760 --> 00:03:36,010

total of 120 excuse me 112 pounds on to

95

00:03:41,430 --> 00:03:38,770

ISS 28 of which went into the tanks

96

00:03:43,009 --> 00:03:41,440

another 84 we pushed into the stack just

97

00:03:45,990 --> 00:03:43,019

to help out with overall cabin pressure

98

00:03:49,590 --> 00:03:46,000

for oxygen current numbers were tallied

99

00:03:52,080 --> 00:03:49,600

up to 182 pounds total that's 110 pounds

100

00:03:54,990 --> 00:03:52,090

into the ISS tanks and 72 pounds into

101
00:03:56,970 --> 00:03:55,000
the stack and we pushed as much o2 as we

102
00:03:59,699 --> 00:03:56,980
could into the vehicle and ISS is in

103
00:04:02,550 --> 00:03:59,709
great shape from an oxygen standpoint we

104
00:04:06,420 --> 00:04:02,560
also did for the plan take 6 ice lithium

105
00:04:08,190 --> 00:04:06,430
hydroxide cans from the ISS stockpile

106
00:04:09,960 --> 00:04:08,200
for carbon dioxide removal on board

107
00:04:12,570 --> 00:04:09,970
shuttle and that was our pre-flight plan

108
00:04:13,860 --> 00:04:12,580
so there's no surprise than that but

109
00:04:15,780 --> 00:04:13,870
all-in-all again the missions going

110
00:04:17,400 --> 00:04:15,790
extremely well the crews get a little

111
00:04:19,560 --> 00:04:17,410
bit of well-deserved rest right now with

112
00:04:21,270 --> 00:04:19,570
off-duty and they are preparing for

113
00:04:23,730 --> 00:04:21,280

tomorrow's undock activities and in

114

00:04:25,500 --> 00:04:23,740

their late inspection then the Mao n

115

00:04:27,300 --> 00:04:25,510

minus one timeline in the orbit on the

116

00:04:27,840 --> 00:04:27,310

following day so we're getting sort of

117

00:04:29,130 --> 00:04:27,850

back into

118

00:04:30,860 --> 00:04:29,140

regular routine for a shell in flight

119

00:04:33,540 --> 00:04:30,870

for undock and what happens thereafter

120

00:04:35,610 --> 00:04:33,550

so the cello crew is doing great the

121

00:04:37,740 --> 00:04:35,620

station crew is doing great the vehicles

122

00:04:38,940 --> 00:04:37,750

are in great shape and all in all we

123

00:04:41,820 --> 00:04:38,950

couldn't be more pleased with how this

124

00:04:43,710 --> 00:04:41,830

mission is going I think that's all I

125

00:04:44,970 --> 00:04:43,720

got if I got any questions okay we'll

126

00:04:48,330 --> 00:04:44,980

take some questions from here at JSC

127

00:04:50,820 --> 00:04:48,340

first sorry Phillip Phillips lost with

128

00:04:52,950 --> 00:04:50,830

NASA Space Flight com could you talk a

129

00:04:54,270 --> 00:04:52,960

bit about I know you discover his

130

00:04:55,440 --> 00:04:54,280

performance was worried but could just

131

00:04:57,930 --> 00:04:55,450

elaborate on that a little time and

132

00:04:59,390 --> 00:04:57,940

she's she's done really well and it's

133

00:05:02,130 --> 00:04:59,400

almost things like she's a brand new car

134

00:05:04,260 --> 00:05:02,140

boy she's operating well it's a

135

00:05:05,550 --> 00:05:04,270

testament to the folks at came to see

136

00:05:08,880 --> 00:05:05,560

the ground up folks who take care of

137

00:05:10,320 --> 00:05:08,890

discovering the other two birds when I

138

00:05:12,720 --> 00:05:10,330

say she's doing great there's no system

139

00:05:14,820 --> 00:05:12,730

problems if we've looked at usually when

140

00:05:16,830 --> 00:05:14,830

we fly we lose a do sir we lose a system

141

00:05:19,650 --> 00:05:16,840

or not usually but sometimes we do and

142

00:05:21,240 --> 00:05:19,660

in this case discoveries had no issues

143

00:05:22,830 --> 00:05:21,250

knock on wood we're not on the ground

144

00:05:25,620 --> 00:05:22,840

yet but so far she's performed perfectly

145

00:05:29,400 --> 00:05:25,630

there are no issues to talk about from

146

00:05:31,470 --> 00:05:29,410

our side so it's a testament to the

147

00:05:33,210 --> 00:05:31,480

folks at KSC is doing a great job with

148

00:05:34,500 --> 00:05:33,220

the vehicle I would also add it's a

149

00:05:36,510 --> 00:05:34,510

testament the fact we've been flying

150

00:05:38,190 --> 00:05:36,520

these shuttles for a while we know how

151
00:05:39,540 --> 00:05:38,200
to take care of them we know we've we've

152
00:05:42,120 --> 00:05:39,550
gone and fixed the little things that

153
00:05:44,030 --> 00:05:42,130
maybe were troublesome and she's in

154
00:05:53,790 --> 00:05:44,040
great shape to take the crew home on

155
00:05:57,600 --> 00:05:53,800
Wednesday Robert hi Robert Perlman with

156
00:05:58,950 --> 00:05:57,610
collectspace.com can you just go over

157
00:06:01,590 --> 00:05:58,960
what the what the shell crew will be

158
00:06:05,160 --> 00:06:01,600
doing between crew hatch and crew hatch

159
00:06:08,100 --> 00:06:05,170
closure and and sleep tonight the four

160
00:06:09,630 --> 00:06:08,110
hours or so they have between them okay

161
00:06:11,610 --> 00:06:09,640
sure the timeline for this evening after

162
00:06:14,340 --> 00:06:11,620
we close the hatch there's not a whole

163
00:06:16,110 --> 00:06:14,350

lot on that side in terms of big items

164

00:06:17,850 --> 00:06:16,120

they get the hatch closed they get the

165

00:06:20,760 --> 00:06:17,860

the airlock and all that bundled up and

166

00:06:22,770 --> 00:06:20,770

repacked from all the ISS act to

167

00:06:23,940 --> 00:06:22,780

transfer stuff we brought in that's

168

00:06:25,320 --> 00:06:23,950

probably one of the biggest things just

169

00:06:27,630 --> 00:06:25,330

make sure the mid-deck stowage is all

170

00:06:30,000 --> 00:06:27,640

shipshape they will do probably a little

171

00:06:31,440 --> 00:06:30,010

study and prep for tomorrow and then

172

00:06:32,730 --> 00:06:31,450

they'll do their regular pre-sleep

173

00:06:34,950 --> 00:06:32,740

activities where they confirm the

174

00:06:36,659 --> 00:06:34,960

vehicle for sleep they'll also eat their

175

00:06:38,940 --> 00:06:36,669

dinner and things like that but in

176

00:06:40,680 --> 00:06:38,950

general it's just a standard evening if

177

00:06:41,670 --> 00:06:40,690

you will in the shuttle with no big

178

00:06:45,749 --> 00:06:41,680

ticket items just getting

179

00:06:47,879 --> 00:06:45,759

prep for tomorrow's undocking and I

180

00:06:50,010 --> 00:06:47,889

realize it's it's very early but has

181

00:06:57,719 --> 00:06:50,020

there been any advance word on whether

182

00:06:59,159 --> 00:06:57,729

for landing you're funny well of course

183

00:07:00,719 --> 00:06:59,169

we've looked at forecast for several

184

00:07:03,540 --> 00:07:00,729

days now and forecast for Monday

185

00:07:04,710 --> 00:07:03,550

Wednesday all look pretty good but it's

186

00:07:08,010 --> 00:07:04,720

Florida weather which is always

187

00:07:09,930 --> 00:07:08,020

entertaining we will look at it continue

188

00:07:11,670 --> 00:07:09,940

to look at it right up to the decision

189

00:07:14,040 --> 00:07:11,680

time for the door burn that tone ian is

190

00:07:17,129 --> 00:07:14,050

a team will make our minds day hopefully

191

00:07:18,810 --> 00:07:17,139

and as far as I know right now the

192

00:07:25,529 --> 00:07:18,820

weather forecast is very favorable for

193

00:07:27,990 --> 00:07:25,539

landing on Wednesday hey Denise Denise

194

00:07:29,400 --> 00:07:28,000

Chow its face calm with the mission

195

00:07:31,409 --> 00:07:29,410

winding down and everything going so

196

00:07:32,730 --> 00:07:31,419

well so far can you give us a sense of

197

00:07:35,029 --> 00:07:32,740

what the atmosphere is like in Mission

198

00:07:38,580 --> 00:07:35,039

Control and among the flight controllers

199

00:07:40,529 --> 00:07:38,590

sure ah let's see the station guys of

200

00:07:43,110 --> 00:07:40,539

course are very excited to have the

201
00:07:45,120 --> 00:07:43,120
extra part the pmm and the LC on their

202
00:07:47,310 --> 00:07:45,130
vehicle the extra volume inside they've

203
00:07:49,110 --> 00:07:47,320
got some work ahead of them to go finish

204
00:07:51,689 --> 00:07:49,120
cleaning that up it still got some

205
00:07:53,460 --> 00:07:51,699
things all all moved around some extra

206
00:07:55,080 --> 00:07:53,470
stowage they got to take care of but

207
00:07:58,500 --> 00:07:55,090
general they're related that everything

208
00:08:00,510 --> 00:07:58,510
has gone so well their systems are all

209
00:08:01,860 --> 00:08:00,520
behaving very well and on the station

210
00:08:04,409 --> 00:08:01,870
side things are going well on the

211
00:08:06,060 --> 00:08:04,419
shuttle side folks are we still got

212
00:08:08,480 --> 00:08:06,070
several days we've got the sort of the

213
00:08:11,129 --> 00:08:08,490

nominal four days in front of us for I

214

00:08:13,290 --> 00:08:11,139

count that right undock and then an

215

00:08:15,689 --> 00:08:13,300

emission and then landing so three days

216

00:08:17,399 --> 00:08:15,699

if you will after today so on the

217

00:08:19,589 --> 00:08:17,409

station side we're still I'm sorry on

218

00:08:21,570 --> 00:08:19,599

the shuttle side we're still kind of

219

00:08:23,550 --> 00:08:21,580

press and headed waiting for our nominal

220

00:08:27,450 --> 00:08:23,560

activities to transpire and getting

221

00:08:30,390 --> 00:08:27,460

ready for landing okay anymore from here

222

00:08:33,420 --> 00:08:30,400

are you let's go to the phone lines see

223

00:08:36,329 --> 00:08:33,430

we've got marker oh hey thanks I just

224

00:08:38,159 --> 00:08:36,339

wondered what your cryo markets look

225

00:08:39,600 --> 00:08:38,169

like now I know you have the plus to

226

00:08:42,719 --> 00:08:39,610

whether it's what if you have anything

227

00:08:45,329 --> 00:08:42,729

beyond that you know sure mark

228

00:08:48,540 --> 00:08:45,339

transferred a lot of 02 / an ISS like we

229

00:08:50,430 --> 00:08:48,550

said we did didn't put it all into their

230

00:08:52,470 --> 00:08:50,440

onto their side we do still have a

231

00:08:54,930 --> 00:08:52,480

little bit of margin above the two days

232

00:08:55,300 --> 00:08:54,940

we have it's about three hours worth if

233

00:08:57,250 --> 00:08:55,310

you think

234

00:08:59,590 --> 00:08:57,260

in terms of cry or about 30 pounds of

235

00:09:01,690 --> 00:08:59,600

oxygen so we have a little bit of margin

236

00:09:03,880 --> 00:09:01,700

on our side still to support but

237

00:09:06,910 --> 00:09:03,890

obviously we don't anticipate staying up

238

00:09:09,190 --> 00:09:06,920

that late on Friday so it won't be any

239

00:09:14,560 --> 00:09:09,200

issue for us but we have it there if we

240

00:09:16,750 --> 00:09:14,570

need it okay okay Marcia Dunn yeah hi

241

00:09:18,280 --> 00:09:16,760

I'm just wondering Brian do you think

242

00:09:21,190 --> 00:09:18,290

it'll be an emotional moment for you

243

00:09:26,100 --> 00:09:21,200

when the shuttle and ducks tomorrow and

244

00:09:29,350 --> 00:09:26,110

every space station for the last time I

245

00:09:30,340 --> 00:09:29,360

see emotional moment for me you got cut

246

00:09:31,990 --> 00:09:30,350

out a little bit there but when

247

00:09:34,750 --> 00:09:32,000

discovery on docs and lead station for

248

00:09:36,790 --> 00:09:34,760

the last time not so much at that point

249

00:09:39,160 --> 00:09:36,800

for me just because we'll be focused on

250

00:09:41,019 --> 00:09:39,170

helping the crew do the fly about fly

251
00:09:43,510 --> 00:09:41,029
around getting those things mixed up now

252
00:09:45,820 --> 00:09:43,520
myself the shuttle do the fly around and

253
00:09:47,410 --> 00:09:45,830
then we'll be jumping right into late

254
00:09:50,050 --> 00:09:47,420
inspection with the RMS activities and

255
00:09:51,670 --> 00:09:50,060
all that so for us on consulates it's

256
00:09:53,110 --> 00:09:51,680
stick with the business take care of the

257
00:09:55,600 --> 00:09:53,120
crew take care of the vehicle make sure

258
00:09:57,490 --> 00:09:55,610
everything's going well the emotion may

259
00:09:59,290 --> 00:09:57,500
kick in later after we unplug for our

260
00:10:01,270 --> 00:09:59,300
last shift the orbit one ship the last

261
00:10:02,710 --> 00:10:01,280
time are on console is tomorrow and then

262
00:10:04,810 --> 00:10:02,720
the entry team takes over during that

263
00:10:07,840 --> 00:10:04,820

time period so tomorrow will be my last

264

00:10:09,700 --> 00:10:07,850

shift and afterwards perhaps a lil

265

00:10:10,930 --> 00:10:09,710

emotional but for the most part will

266

00:10:13,090 --> 00:10:10,940

just be excited that the mission has

267

00:10:23,460 --> 00:10:13,100

gone to the darn well thank you very

268

00:10:26,730 --> 00:10:25,380

okay seems like we lost Todd let's come

269

00:10:30,000 --> 00:10:26,740

back here at JSC or the unique follows

270

00:10:31,080 --> 00:10:30,010

here none okay we'll wrap it up we're

271

00:10:32,340 --> 00:10:31,090

going to send it back to Mission Control

272

00:10:34,290 --> 00:10:32,350

we want to remind you that the crew is

273

00:10:36,930 --> 00:10:34,300

going to wake up tomorrow morning at 223

274

00:10:38,760 --> 00:10:36,940

a.m. central time that's going to be 323

275

00:10:40,080 --> 00:10:38,770

a.m. eastern time tomorrow morning is

276

00:10:41,820 --> 00:10:40,090

going to be a special day the wakeup

277

00:10:44,430 --> 00:10:41,830

music is going to be the first of our

278

00:10:46,320 --> 00:10:44,440

wakeup music contest winners those

279

00:10:48,180 --> 00:10:46,330

results are available on the web if you

280

00:10:49,710 --> 00:10:48,190

want to check them out NASA gov but we

281

00:10:51,810 --> 00:10:49,720

may have a couple of surprises for you

282

00:10:53,730 --> 00:10:51,820

and when we play those bags so we invite

283

00:10:54,810 --> 00:10:53,740

you to stay tuned for that we're going