

1
00:00:03,990 --> 00:00:01,990
start in node one and work backwards

2
00:00:04,870 --> 00:00:04,000
today because the service module will be

3
00:00:06,710 --> 00:00:04,880
uh

4
00:00:09,509 --> 00:00:06,720
deep in the throes of cabling for the

5
00:00:11,509 --> 00:00:09,519
meme dua so we'll start there and then

6
00:00:13,749 --> 00:00:11,519
we'll move to the front of the station

7
00:00:17,269 --> 00:00:13,759
in node one you can see here our galley

8
00:00:19,429 --> 00:00:17,279
table is set up and there's two uh

9
00:00:21,750 --> 00:00:19,439
straps right here holding it rigidly and

10
00:00:23,429 --> 00:00:21,760
bungee's down on the bottom holding it a

11
00:00:25,509 --> 00:00:23,439
little bit more springly

12
00:00:27,429 --> 00:00:25,519
and it's in its uh half folded

13
00:00:28,870 --> 00:00:27,439

configuration it folds up against the

14

00:00:30,470 --> 00:00:28,880

side there flat

15

00:00:31,990 --> 00:00:30,480

and it folds out across the node to

16

00:00:34,549 --> 00:00:32,000

accommodate everybody

17

00:00:35,910 --> 00:00:34,559

the hatch as you can see is unimpeded by

18

00:00:39,670 --> 00:00:35,920

the table

19

00:00:42,790 --> 00:00:39,680

and a quick circumferential view

20

00:00:48,869 --> 00:00:45,670

which i think was asked for

21

00:00:51,029 --> 00:00:48,879

and uh pma1 we have uh started to burn

22

00:00:52,790 --> 00:00:51,039

down a lot of the supplies here

23

00:00:55,029 --> 00:00:52,800

and it's actually looking pretty good

24

00:01:11,270 --> 00:00:55,039

believe it or not that narrow tunnel

25

00:01:16,310 --> 00:01:13,670

now i'll make a note that uh

26
00:01:19,030 --> 00:01:16,320
gennady has uh just gone to herculean

27
00:01:20,789 --> 00:01:19,040
efforts to clean up the fgb uh stow

28
00:01:22,550 --> 00:01:20,799
things get rid of things

29
00:01:24,230 --> 00:01:22,560
and i would say that it's not looked

30
00:01:25,510 --> 00:01:24,240
better than this for an awfully long

31
00:01:27,830 --> 00:01:25,520
time

32
00:01:30,390 --> 00:01:27,840
we had to add another layer here for the

33
00:01:32,710 --> 00:01:30,400
evas and put other orange suits up here

34
00:01:34,069 --> 00:01:32,720
these of course are now back in the uh

35
00:01:36,630 --> 00:01:34,079
esoedine

36
00:01:38,870 --> 00:01:36,640
and the fgb is looking great it's still

37
00:01:40,390 --> 00:01:38,880
a huge amount of stowage and anything

38
00:01:41,990 --> 00:01:40,400

stored in the plane one is very

39

00:01:43,990 --> 00:01:42,000

difficult to access

40

00:01:46,630 --> 00:01:44,000

there was a question about the patok

41

00:01:48,870 --> 00:01:46,640

location in the fgb here it is

42

00:01:51,270 --> 00:01:48,880

um it's been moved in a very convenient

43

00:01:53,510 --> 00:01:51,280

location after the resto

44

00:01:56,230 --> 00:01:53,520

activities after the ebas

45

00:02:06,630 --> 00:01:56,240

and down here we have of course

46

00:02:14,790 --> 00:02:10,710

and a quick look down at

47

00:02:19,270 --> 00:02:17,350

there are several orlans down there but

48

00:02:21,430 --> 00:02:19,280

the way they're stowed it's actually

49

00:02:23,110 --> 00:02:21,440

very convenient and still a usable

50

00:02:25,190 --> 00:02:23,120

volume down there

51
00:02:28,949 --> 00:02:25,200
so just packing is everything and of

52
00:02:32,869 --> 00:02:28,959
course our soyuz 18s is down there

53
00:02:35,750 --> 00:02:32,879
and uh moving into the service module

54
00:02:42,630 --> 00:02:35,760
gennady and roman are hard at work

55
00:03:00,390 --> 00:02:44,630
and the service module is looking very

56
00:03:06,149 --> 00:03:03,030
now moving back uh forward

57
00:03:07,750 --> 00:03:06,159
through the service module

58
00:03:10,470 --> 00:03:07,760
again there's been

59
00:03:12,229 --> 00:03:10,480
really major efforts to uh clean things

60
00:03:14,149 --> 00:03:12,239
up in here and

61
00:03:15,589 --> 00:03:14,159
the service module is a very clean

62
00:03:18,550 --> 00:03:15,599
module right now

63
00:03:20,949 --> 00:03:18,560

the galley table we take breakfast here

64

00:03:23,430 --> 00:03:20,959

and lunch here typically and reserve

65

00:03:25,110 --> 00:03:23,440

dinner for the u.s segment

66

00:03:27,190 --> 00:03:25,120

and

67

00:03:30,309 --> 00:03:27,200

service module

68

00:03:33,030 --> 00:03:30,319

walls planes two and four have been uh

69

00:03:35,190 --> 00:03:33,040

massively cleaned and tidied

70

00:03:58,710 --> 00:03:35,200

and we'll go ahead and move back forward

71

00:04:03,429 --> 00:04:02,149

here again you get a view of the fgb and

72

00:04:05,110 --> 00:04:03,439

how much

73

00:04:13,350 --> 00:04:05,120

flyway there is now compared to what

74

00:04:17,909 --> 00:04:16,229

this is the hygiene station which is uh

75

00:04:20,150 --> 00:04:17,919

something all the crew members used at

76

00:04:22,469 --> 00:04:20,160

first uh now uh just uh gennady and

77

00:04:24,230 --> 00:04:22,479

ramon are using this and the uh us

78

00:04:26,230 --> 00:04:24,240

segment guys are pretty much using the

79

00:04:32,870 --> 00:04:26,240

whc

80

00:04:38,950 --> 00:04:35,749

and of course the fgb and

81

00:04:42,469 --> 00:04:38,960

down here is the 19s soyuz down in the

82

00:04:42,479 --> 00:04:46,790

coming out again through the pma

83

00:04:46,800 --> 00:04:53,030

and the light at the end of the tunnel

84

00:04:58,550 --> 00:04:55,270

and now we'll try to play or pay a

85

00:05:02,390 --> 00:04:58,560

particular attention to uh stowage areas

86

00:05:04,390 --> 00:05:02,400

and in particular this is

87

00:05:05,430 --> 00:05:04,400

the uh

88

00:05:08,629 --> 00:05:05,440

there we go

89

00:05:11,510 --> 00:05:08,639

the node one uh nader hatch area

90

00:05:13,990 --> 00:05:11,520

uh we still have uh leftover tevis items

91

00:05:16,550 --> 00:05:14,000

in here from the maintenance that we did

92

00:05:19,590 --> 00:05:16,560

and then uh looking starboard along the

93

00:05:25,189 --> 00:05:19,600

uh the hatch area is a collection of

94

00:05:30,150 --> 00:05:28,150

and of course behind the a red

95

00:05:31,749 --> 00:05:30,160

the port hatch

96

00:05:33,510 --> 00:05:31,759

pretty much nothing is stowed there

97

00:05:37,510 --> 00:05:33,520

because of the dynamic envelope of the a

98

00:05:43,510 --> 00:05:40,950

and uh let's take a look overhead

99

00:05:45,590 --> 00:05:43,520

so the zenith hatch area we had done a

100

00:05:47,110 --> 00:05:45,600

lot of pre-staging of trash here before

101
00:05:49,990 --> 00:05:47,120
the last progress

102
00:05:53,110 --> 00:05:50,000
and uh this area is of course excited

103
00:05:54,629 --> 00:05:53,120
for a stowage for a 17a

104
00:05:56,950 --> 00:05:54,639
there is a quite a bit of potential

105
00:05:58,950 --> 00:05:56,960
stowage area up here just as a note when

106
00:06:00,550 --> 00:05:58,960
we do stow a lot of things up here we

107
00:06:01,990 --> 00:06:00,560
lose some of the ventilation we lose

108
00:06:04,629 --> 00:06:02,000
some of the lighting

109
00:06:06,950 --> 00:06:04,639
and where we have to be careful again

110
00:06:12,710 --> 00:06:06,960
with the a red dynamic envelope but it

111
00:06:17,110 --> 00:06:14,390
now looking at the

112
00:06:19,270 --> 00:06:17,120
node 1 forward area we see koichi wakata

113
00:06:22,070 --> 00:06:19,280

the hero of japan

114

00:06:24,150 --> 00:06:22,080

and to highlight some of the stowage

115

00:06:25,990 --> 00:06:24,160

on the starboard side

116

00:06:28,309 --> 00:06:26,000

here we have a

117

00:06:30,870 --> 00:06:28,319

ctb behind there a jettison stowage bag

118

00:06:33,189 --> 00:06:30,880

with pre-trash gather items

119

00:06:35,350 --> 00:06:33,199

and on the port side

120

00:06:37,350 --> 00:06:35,360

you see more ctbs we've reported that

121

00:06:39,110 --> 00:06:37,360

these actually do cover some fire ports

122

00:06:42,150 --> 00:06:39,120

and i think that's well known

123

00:06:43,909 --> 00:06:42,160

the pfe is uh is accessible on the port

124

00:06:45,990 --> 00:06:43,919

side there but it takes a little while

125

00:06:48,550 --> 00:06:46,000

so there you can see stowage pretty much

126
00:06:49,210 --> 00:06:48,560
along the port side the green mesh bags

127
00:06:50,309 --> 00:06:49,220
you see here

128
00:06:51,589 --> 00:06:50,319
[Music]

129
00:06:53,830 --> 00:06:51,599
here

130
00:06:56,230 --> 00:06:53,840
and on either side these are the us

131
00:06:58,870 --> 00:06:56,240
segment crew members athletic bags so we

132
00:07:04,309 --> 00:06:58,880
keep tvs harnesses tennis shoes sweat

133
00:07:04,319 --> 00:07:08,469
and looking into the airlock

134
00:07:08,479 --> 00:07:12,230
and a quick look around the hatch

135
00:07:16,230 --> 00:07:14,390
hatches are in very good shape we do

136
00:07:18,710 --> 00:07:16,240
kind of inspect the hatches uh in a

137
00:07:20,469 --> 00:07:18,720
cursory fashion once a day or so

138
00:07:22,790 --> 00:07:20,479

and do quick fly-throughs looking at

139

00:07:24,230 --> 00:07:22,800

hatches and excursions and

140

00:07:25,270 --> 00:07:24,240

anything that might be stuck in the fan

141

00:07:27,990 --> 00:07:25,280

filters

142

00:07:29,670 --> 00:07:28,000

it's been a lot of work in the pre-eva

143

00:07:31,909 --> 00:07:29,680

tool gathering configuration getting

144

00:07:34,070 --> 00:07:31,919

ready for 2ja

145

00:07:36,710 --> 00:07:34,080

and the airlock in general is looking

146

00:07:44,680 --> 00:07:36,720

pretty good and pretty ready for the 2ja

147

00:07:44,690 --> 00:07:49,909

[Music]

148

00:07:54,390 --> 00:07:52,869

the crew lock is full of tools and many

149

00:08:00,629 --> 00:07:54,400

workstations are all configured and

150

00:08:00,639 --> 00:08:08,710

okay now we'll move into the lab

151

00:08:43,269 --> 00:08:10,710

and a quick look at the

152

00:08:46,389 --> 00:08:44,790

and it's a little dark in here but i

153

00:08:48,710 --> 00:08:46,399

think you get an idea that the hatch is

154

00:08:50,630 --> 00:08:48,720

pretty unencumbered and i will highlight

155

00:08:52,150 --> 00:08:50,640

the fact for the stowage guys that we do

156

00:08:53,750 --> 00:08:52,160

have some food deployed up here and

157

00:08:57,110 --> 00:08:53,760

we've been marking that in the database

158

00:08:59,030 --> 00:08:57,120

says node one starboard

159

00:09:01,670 --> 00:08:59,040

one and um

160

00:09:03,990 --> 00:09:01,680

we turned this over similar to uh what

161

00:09:06,070 --> 00:09:04,000

we do in the service module here

162

00:09:07,750 --> 00:09:06,080

typically we eat dinner as a crew down

163

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

here in node one and

164

00:09:12,710 --> 00:09:09,519

a lot of this is rehydratable and of

165

00:09:22,630 --> 00:09:12,720

course we're using our pwd for that

166

00:09:22,640 --> 00:09:25,430

and uh

167

00:09:31,030 --> 00:09:28,150

notably uh the rws

168

00:09:33,350 --> 00:09:31,040

over here and uh sscs on either side of

169

00:09:34,710 --> 00:09:33,360

it eight on the left five on the right

170

00:09:36,070 --> 00:09:34,720

we'll get a quick look at those for

171

00:09:43,190 --> 00:09:36,080

those who might be interested in the

172

00:09:48,870 --> 00:09:46,470

we've done several robotic operations in

173

00:09:50,630 --> 00:09:48,880

expedition 19 and those worked out very

174

00:09:54,790 --> 00:09:50,640

well with this arrangement

175

00:09:59,269 --> 00:09:54,800

using the sse5 as a procedure machine

176
00:10:03,110 --> 00:09:59,279
and ssc-8 over here is a doug machine

177
00:10:05,269 --> 00:10:03,120
and looking back quickly at the

178
00:10:08,630 --> 00:10:05,279
hatch arrangement

179
00:10:13,350 --> 00:10:10,470
i think it's been reported several times

180
00:10:15,430 --> 00:10:13,360
that the quarter turn fasteners

181
00:10:17,030 --> 00:10:15,440
don't seem to work so well especially if

182
00:10:18,870 --> 00:10:17,040
they're in an area that's accessed

183
00:10:20,230 --> 00:10:18,880
frequently

184
00:10:22,150 --> 00:10:20,240
several of them

185
00:10:23,269 --> 00:10:22,160
breaking their catches and as you can

186
00:10:26,870 --> 00:10:23,279
see the

187
00:10:28,389 --> 00:10:26,880
pba hatch over here just over the

188
00:10:31,430 --> 00:10:28,399

pfe port

189

00:10:33,430 --> 00:10:31,440

there's four of those fasteners are gone

190

00:10:35,430 --> 00:10:33,440

and we have to be careful because

191

00:10:37,990 --> 00:10:35,440

opening the pba

192

00:10:40,790 --> 00:10:38,000

port here against the velcro inside

193

00:10:41,670 --> 00:10:40,800

would impede the pfp coming out

194

00:10:47,509 --> 00:10:41,680

so

195

00:10:52,790 --> 00:10:49,910

and uh we keep our

196

00:10:54,389 --> 00:10:52,800

tivas and uh tevus cards up here just

197

00:10:55,990 --> 00:10:54,399

above the mech so that it's convenient

198

00:10:58,069 --> 00:10:56,000

for us to come in and get them read

199

00:11:01,829 --> 00:10:58,079

after tvis exercise and

200

00:11:03,910 --> 00:11:01,839

in the mech and then put them back

201
00:11:05,750 --> 00:11:03,920
for uh stowage guys again we've reported

202
00:11:07,430 --> 00:11:05,760
the location of the uh

203
00:11:09,509 --> 00:11:07,440
food warmer i think we've sent a video

204
00:11:14,710 --> 00:11:09,519
down about that as well but here again

205
00:11:24,310 --> 00:11:14,720
is where we keep the u.s food warmer

206
00:11:30,470 --> 00:11:26,550
and as far as

207
00:11:36,870 --> 00:11:34,150
this is our pre-staging area for 2ja

208
00:11:41,269 --> 00:11:36,880
the lab overhead 3 location

209
00:11:44,870 --> 00:11:41,279
it's fairly packed right now with

210
00:11:46,710 --> 00:11:44,880
items ready for uh the 127 crew

211
00:11:48,470 --> 00:11:46,720
it was a good location i think it's

212
00:11:50,310 --> 00:11:48,480
worked out well for us

213
00:11:53,829 --> 00:11:50,320

we could probably uh stuff a little bit

214

00:11:56,230 --> 00:11:53,839

more in there mostly ctbs ecox

215

00:11:57,670 --> 00:11:56,240

jsps as you can see there's some food

216

00:12:03,910 --> 00:11:57,680

containers they're all bundled up and

217

00:12:08,629 --> 00:12:07,430

the deck 3 area is still taken up by the

218

00:12:10,550 --> 00:12:08,639

ag cam

219

00:12:12,629 --> 00:12:10,560

so our window constraints really don't

220

00:12:14,389 --> 00:12:12,639

have too much meaning to us the ag cam

221

00:12:16,550 --> 00:12:14,399

window requirements

222

00:12:19,509 --> 00:12:16,560

are pretty much dictating the lab window

223

00:12:21,750 --> 00:12:19,519

activity and uh actually the ag cam has

224

00:12:22,629 --> 00:12:21,760

had a problem it hasn't worked quite yet

225

00:12:24,389 --> 00:12:22,639

so

226

00:12:27,110 --> 00:12:24,399

we're not using that too much

227

00:12:28,310 --> 00:12:27,120

a quick uh time to highlight the water

228

00:12:31,910 --> 00:12:28,320

wall

229

00:12:34,710 --> 00:12:31,920

in the uh starboard two area uh

230

00:12:36,790 --> 00:12:34,720

bob and frank did a ifm here on the task

231

00:12:38,389 --> 00:12:36,800

list to try to get the water wall away

232

00:12:39,670 --> 00:12:38,399

from the sur rack

233

00:12:41,110 --> 00:12:39,680

and i think that's been fairly

234

00:12:43,990 --> 00:12:41,120

successful

235

00:12:45,990 --> 00:12:44,000

bungee cords are trying to keep that

236

00:12:47,509 --> 00:12:46,000

from impacting the wall there's looks

237

00:12:49,030 --> 00:12:47,519

like there's one against there but we'll

238

00:12:51,430 --> 00:12:49,040

fix that and we do

239

00:12:52,870 --> 00:12:51,440

periodically reorient these to get them

240

00:12:55,590 --> 00:12:52,880

off

241

00:12:57,590 --> 00:12:55,600

now concentrating for a time in the lab

242

00:13:02,310 --> 00:12:57,600

one area

243

00:13:06,150 --> 00:13:02,320

the tess which is now inhabited by frank

244

00:13:07,269 --> 00:13:06,160

one of the quieter places on the station

245

00:13:10,069 --> 00:13:07,279

and

246

00:13:12,069 --> 00:13:10,079

the ogs rack which we have reported

247

00:13:13,590 --> 00:13:12,079

several times before this is a very busy

248

00:13:15,430 --> 00:13:13,600

area that

249

00:13:18,629 --> 00:13:15,440

was not supposed to have stowage on it

250

00:13:21,350 --> 00:13:18,639

but of course we have the altea on there

251
00:13:23,670 --> 00:13:21,360
we do have an ssc here which frank uses

252
00:13:26,069 --> 00:13:23,680
office wise and if we have the b cat

253
00:13:29,670 --> 00:13:26,079
payload set up then we use it here

254
00:13:31,990 --> 00:13:29,680
um the oca router is also situated here

255
00:13:35,350 --> 00:13:32,000
and it's a bit of a massive cabling it

256
00:13:37,350 --> 00:13:35,360
is a traffic area the whc is here

257
00:13:38,870 --> 00:13:37,360
so we are looking for some alternate

258
00:13:41,030 --> 00:13:38,880
locations and they're suggesting a

259
00:13:43,189 --> 00:13:41,040
location in columbus we'd like not to

260
00:13:46,710 --> 00:13:43,199
put the bee cat back here

261
00:13:49,910 --> 00:13:46,720
and a quick look at the hatch area

262
00:13:52,710 --> 00:13:49,920
we've rigged a little uh seat track stud

263
00:13:54,710 --> 00:13:52,720

and a velcro arrangement to keep this uh

264

00:13:56,790 --> 00:13:54,720

pba hatch

265

00:13:58,389 --> 00:13:56,800

more or less closed uh tape wasn't

266

00:14:00,470 --> 00:13:58,399

working out so well for us but again the

267

00:14:02,150 --> 00:14:00,480

quarter turn fasteners have not worked

268

00:14:03,990 --> 00:14:02,160

too well for us there and those have

269

00:14:06,629 --> 00:14:04,000

been taken off

270

00:14:08,550 --> 00:14:06,639

okay continuing on we're in node 2 now i

271

00:14:10,790 --> 00:14:08,560

want to show the hatch

272

00:14:12,069 --> 00:14:10,800

here

273

00:14:14,310 --> 00:14:12,079

looking aft

274

00:14:16,470 --> 00:14:14,320

from node 2.

275

00:14:18,949 --> 00:14:16,480

again we do kind of look at our hatch

276

00:14:20,230 --> 00:14:18,959

surfaces uh at least once a day during a

277

00:14:23,110 --> 00:14:20,240

fly-through making sure that there's

278

00:14:24,710 --> 00:14:23,120

nothing on the fan inlets and uh hatches

279

00:14:27,110 --> 00:14:24,720

are clear and no drag throughs we do

280

00:14:29,509 --> 00:14:27,120

that pretty much once in the morning and

281

00:14:31,269 --> 00:14:29,519

more detail once at night

282

00:14:33,990 --> 00:14:31,279

the mesh bag you see here is our dirty

283

00:14:36,150 --> 00:14:34,000

laundry staging area

284

00:14:38,470 --> 00:14:36,160

power strips down here on the starboard

285

00:14:40,710 --> 00:14:38,480

side and the fan

286

00:14:41,829 --> 00:14:40,720

inlet here which we find things in every

287

00:14:44,389 --> 00:14:41,839

once well

288

00:14:47,670 --> 00:14:44,399

we do a lot of our pao work here so we

289

00:14:49,910 --> 00:14:47,680

have a video camera set up uh with a

290

00:14:51,430 --> 00:14:49,920

small a computer desk we use for holding

291

00:14:54,069 --> 00:14:51,440

any scripting

292

00:14:55,670 --> 00:14:54,079

of the overhead hatch area and we'll pay

293

00:14:56,949 --> 00:14:55,680

particular attention we've reported this

294

00:14:58,790 --> 00:14:56,959

a couple of times too but i think

295

00:15:01,110 --> 00:14:58,800

there's still been some questions

296

00:15:03,110 --> 00:15:01,120

we have the emergency one book up here

297

00:15:05,750 --> 00:15:03,120

in the port area we also have one of the

298

00:15:08,150 --> 00:15:05,760

monovaccumers from the russian side

299

00:15:10,150 --> 00:15:08,160

the one that's typically used at the

300

00:15:12,230 --> 00:15:10,160

central post for reporting differs from

301
00:15:14,310 --> 00:15:12,240
this one by about one and one half

302
00:15:15,990 --> 00:15:14,320
millimeters this one reading a little

303
00:15:18,069 --> 00:15:16,000
bit lower

304
00:15:20,310 --> 00:15:18,079
and um

305
00:15:23,269 --> 00:15:20,320
the other question uh i think was

306
00:15:26,550 --> 00:15:23,279
concerning stowage and so

307
00:15:28,470 --> 00:15:26,560
in the node two uh deck 5 area you can

308
00:15:30,470 --> 00:15:28,480
see we do have some stowage here it's

309
00:15:31,910 --> 00:15:30,480
actually not very much it's a fairly

310
00:15:34,949 --> 00:15:31,920
deep pit

311
00:15:37,350 --> 00:15:34,959
we were using it for empty ctbs here and

312
00:15:39,189 --> 00:15:37,360
we've used most of those for

313
00:15:41,110 --> 00:15:39,199

2ja pre-pack

314

00:15:43,189 --> 00:15:41,120

you will see a couple of bonus food

315

00:15:45,189 --> 00:15:43,199

containers that some of us keep deployed

316

00:15:46,550 --> 00:15:45,199

here just to grab snacks out of them

317

00:15:47,990 --> 00:15:46,560

things like that

318

00:15:49,590 --> 00:15:48,000

rather than running down to the russian

319

00:15:50,629 --> 00:15:49,600

segment these are also marked in the

320

00:15:53,829 --> 00:15:50,639

database

321

00:15:55,990 --> 00:15:53,839

we have one kbo down here and those are

322

00:15:58,470 --> 00:15:56,000

fairly short supply right now on station

323

00:16:04,550 --> 00:15:58,480

so we're using that fairly exclusively

324

00:16:11,350 --> 00:16:07,590

and uh pivoting around this is uh the

325

00:16:15,189 --> 00:16:13,670

port crew quarters port side the

326

00:16:17,990 --> 00:16:15,199

workstation

327

00:16:20,470 --> 00:16:18,000

this is something that i use but also

328

00:16:21,430 --> 00:16:20,480

other crew members use just for supplies

329

00:16:24,550 --> 00:16:21,440

and

330

00:16:28,389 --> 00:16:24,560

like that

331

00:16:38,069 --> 00:16:29,350

and

332

00:16:40,069 --> 00:16:38,079

similar kind of used by koichi but also

333

00:16:42,949 --> 00:16:40,079

by everybody there's some temp stowed

334

00:16:46,310 --> 00:16:42,959

tools here that we use frequently

335

00:16:50,949 --> 00:16:49,269

looking overhead other things that the

336

00:16:56,949 --> 00:16:50,959

crew preference items as they're marked

337

00:17:01,509 --> 00:16:59,509

okay continuing along here um

338

00:17:03,030 --> 00:17:01,519

node two a deck five storage area let's

339

00:17:06,630 --> 00:17:03,040

turn on a little bit of supplemental

340

00:17:07,990 --> 00:17:06,640

light which the hi-def cameras like

341

00:17:10,470 --> 00:17:08,000

we do have

342

00:17:14,069 --> 00:17:10,480

the one big mid deck stowage bag here

343

00:17:15,429 --> 00:17:14,079

and again a few cwc's

344

00:17:17,829 --> 00:17:15,439

but there is obviously a lot of

345

00:17:19,429 --> 00:17:17,839

potential for stowage down here

346

00:17:22,069 --> 00:17:19,439

we've reported that we're short of these

347

00:17:24,069 --> 00:17:22,079

bungees and we really are we need these

348

00:17:25,669 --> 00:17:24,079

for stowing in some of the big radial

349

00:17:28,150 --> 00:17:25,679

hatch areas so i think we've got some of

350

00:17:30,630 --> 00:17:28,160

those coming up on 2ja

351
00:17:31,310 --> 00:17:30,640
and another area that might be a little

352
00:17:34,390 --> 00:17:31,320
bit

353
00:17:37,110 --> 00:17:34,400
underutilized is the end cone area

354
00:17:39,110 --> 00:17:37,120
in the node 2.

355
00:17:40,789 --> 00:17:39,120
we could stow a few more things here

356
00:17:42,470 --> 00:17:40,799
obviously during a shuttle mission it

357
00:17:43,750 --> 00:17:42,480
would be a little bit difficult it is a

358
00:17:44,710 --> 00:17:43,760
thoroughfare

359
00:17:46,870 --> 00:17:44,720
but

360
00:17:49,270 --> 00:17:46,880
it is an area that we could use and we'd

361
00:17:51,669 --> 00:17:49,280
sometimes use for staging now i will

362
00:17:53,029 --> 00:17:51,679
point out the two food containers these

363
00:17:54,710 --> 00:17:53,039

are russian food containers and are

364

00:17:58,150 --> 00:17:54,720

listed as discarded

365

00:17:59,909 --> 00:17:58,160

but we have put the backup ifm tools the

366

00:18:02,470 --> 00:17:59,919

ifm spare tools into these two

367

00:18:04,470 --> 00:18:02,480

containers and organize them somewhat

368

00:18:05,909 --> 00:18:04,480

and we actually do use these fairly

369

00:18:07,270 --> 00:18:05,919

frequently

370

00:18:10,070 --> 00:18:07,280

either because we have tasks

371

00:18:11,350 --> 00:18:10,080

simultaneously or because we just can't

372

00:18:13,909 --> 00:18:11,360

necessarily find something out of the

373

00:18:15,830 --> 00:18:13,919

regular ifm kit we're trying to be a

374

00:18:17,510 --> 00:18:15,840

fairly gently about putting things back

375

00:18:19,270 --> 00:18:17,520

when we're done with them but there's

376

00:18:20,789 --> 00:18:19,280

just a lot of people up here using tools

377

00:18:22,390 --> 00:18:20,799

which is what you expect with a six

378

00:18:25,430 --> 00:18:22,400

person crew

379

00:18:27,350 --> 00:18:25,440

and the node two forward hatch area

380

00:18:29,909 --> 00:18:27,360

the flag area we use this as a backdrop

381

00:18:32,310 --> 00:18:29,919

for pao events again

382

00:18:33,270 --> 00:18:32,320

our venerable ships bell

383

00:18:35,430 --> 00:18:33,280

and

384

00:18:37,669 --> 00:18:35,440

the big cdb floating here is our zip

385

00:18:39,909 --> 00:18:37,679

lock pantry which we're into fairly

386

00:18:42,150 --> 00:18:39,919

frequently

387

00:18:44,070 --> 00:18:42,160

now a quick look at the overhead again

388

00:18:47,350 --> 00:18:44,080

uh quite a bit of potential stowage area

389

00:18:49,590 --> 00:18:47,360

and i know that for uh 17a uh that will

390

00:18:51,510 --> 00:18:49,600

be fairly heavily utilized we have a

391

00:18:53,990 --> 00:18:51,520

little bit of a bungee net up there this

392

00:18:54,710 --> 00:18:54,000

is where we typically dry our clothes

393

00:18:56,390 --> 00:18:54,720

and

394

00:18:58,549 --> 00:18:56,400

some of our water reclamation is done up

395

00:19:00,390 --> 00:18:58,559

here too the uh ventilation here is

396

00:19:01,990 --> 00:19:00,400

quite good so we try to make use of that

397

00:19:03,270 --> 00:19:02,000

the best we can

398

00:19:06,310 --> 00:19:03,280

but that should give you a pretty good

399

00:19:08,789 --> 00:19:06,320

idea of the stowage potential up there

400

00:19:11,029 --> 00:19:08,799

and moving quickly into

401
00:19:14,470 --> 00:19:11,039
the gym

402
00:19:16,230 --> 00:19:14,480
still the tidiest largest

403
00:19:23,430 --> 00:19:16,240
quietest module we have here it's a

404
00:19:27,669 --> 00:19:26,150
and you can see fairly minimal stowage

405
00:19:29,190 --> 00:19:27,679
on the walls here

406
00:19:32,310 --> 00:19:29,200
we'll pause for a

407
00:19:34,950 --> 00:19:32,320
pause for a quick moment here and show

408
00:19:36,950 --> 00:19:34,960
bob's sleep station

409
00:19:39,430 --> 00:19:36,960
bob has been our displaced refugee

410
00:19:42,950 --> 00:19:39,440
without a sleep quarters of his own but

411
00:19:43,750 --> 00:19:42,960
he's made very good use of this location

412
00:19:45,990 --> 00:19:43,760
and

413
00:19:47,590 --> 00:19:46,000

we have the water wall behind there

414

00:19:49,190 --> 00:19:47,600

which we've set up to give bob some

415

00:19:50,870 --> 00:19:49,200

radiation protection and of course has a

416

00:19:55,830 --> 00:19:50,880

bit of a standoff

417

00:20:02,789 --> 00:20:00,070

and this is all empty space

418

00:20:05,110 --> 00:20:02,799

behind there the forward two location

419

00:20:09,830 --> 00:20:05,120

and uh looking up

420

00:20:09,840 --> 00:20:13,430

you see a soft stowage

421

00:20:17,510 --> 00:20:16,070

japanese style with the uh the straps up

422

00:20:19,590 --> 00:20:17,520

there which actually are working out

423

00:20:21,270 --> 00:20:19,600

very nicely they're very easy to access

424

00:20:23,510 --> 00:20:21,280

and we have no problem getting stowage

425

00:20:27,909 --> 00:20:23,520

from up here

426
00:20:33,990 --> 00:20:31,190
at the hatch area

427
00:20:40,070 --> 00:20:34,000
the gem port hatch area very clean very

428
00:20:44,549 --> 00:20:41,830
moving

429
00:20:49,270 --> 00:20:47,350
ssc 14 over here which

430
00:20:51,270 --> 00:20:49,280
is wireless and we like to use for

431
00:20:53,110 --> 00:20:51,280
conferences it allows us to

432
00:20:55,190 --> 00:20:53,120
fly the camera around a little bit and

433
00:20:56,950 --> 00:20:55,200
give people a fly through of the station

434
00:21:00,070 --> 00:20:56,960
during our video conferences which is

435
00:21:04,310 --> 00:21:03,029
and we do have a little bit of stowage

436
00:21:09,750 --> 00:21:04,320
over here

437
00:21:12,789 --> 00:21:10,789
and uh

438
00:21:14,390 --> 00:21:12,799

potentially forward

439

00:21:15,990 --> 00:21:14,400

i think crew members have slept at both

440

00:21:19,190 --> 00:21:16,000

of these locations before and of course

441

00:21:20,070 --> 00:21:19,200

this is an area we use also for pao and

442

00:21:21,669 --> 00:21:20,080

for

443

00:21:24,230 --> 00:21:21,679

some of our photo events because we have

444

00:21:29,110 --> 00:21:24,240

the magnificent window behind there

445

00:21:30,710 --> 00:21:29,120

and looking up into the jlp

446

00:21:31,990 --> 00:21:30,720

i think you're probably aware that we do

447

00:21:33,990 --> 00:21:32,000

have

448

00:21:37,029 --> 00:21:34,000

one of our emu's stowed in here it makes

449

00:21:38,230 --> 00:21:37,039

things much easier to work in the

450

00:21:39,029 --> 00:21:38,240

airlock

451
00:21:40,789 --> 00:21:39,039
and

452
00:21:42,630 --> 00:21:40,799
some of these bags are actually empty

453
00:21:46,070 --> 00:21:42,640
that we have up here the

454
00:21:47,750 --> 00:21:46,080
3.0 ctb here is is empty we had found

455
00:21:49,909 --> 00:21:47,760
food containers in that we moved those

456
00:21:54,390 --> 00:21:49,919
to columbus forward three in an effort

457
00:22:00,630 --> 00:21:56,710
as the other emu that was already stowed

458
00:22:02,789 --> 00:22:00,640
up here the uh robot uh

459
00:22:04,470 --> 00:22:02,799
trainer

460
00:22:06,310 --> 00:22:04,480
and uh

461
00:22:07,029 --> 00:22:06,320
bob has also been using this as kind of

462
00:22:18,230 --> 00:22:07,039
a

463
00:22:19,510 --> 00:22:18,240

obviously just right now very loose

464

00:22:22,070 --> 00:22:19,520

stowage

465

00:22:24,230 --> 00:22:22,080

but a lot of potential here

466

00:22:26,549 --> 00:22:24,240

and you can see we have a couple of

467

00:22:29,270 --> 00:22:26,559

e-cocks here i think these are mine and

468

00:22:38,950 --> 00:22:32,070

just floating

469

00:22:43,430 --> 00:22:41,270

i will make one note that we're checking

470

00:22:45,909 --> 00:22:43,440

koichi i don't think so but we'll look

471

00:22:49,510 --> 00:22:47,909

we've had food stowed in so many

472

00:22:52,310 --> 00:22:49,520

different locations

473

00:22:54,950 --> 00:22:52,320

including obscure panels in the fgb and

474

00:22:56,230 --> 00:22:54,960

as well as the fgb floor uh columbus

475

00:23:00,710 --> 00:22:56,240

forward three

476
00:23:04,070 --> 00:23:02,390
and uh we worked pretty hard to try to

477
00:23:06,710 --> 00:23:04,080
consolidate that

478
00:23:10,549 --> 00:23:08,789
let's see behind uh

479
00:23:13,270 --> 00:23:10,559
this panel

480
00:23:14,870 --> 00:23:13,280
which is the uh aft 5 and

481
00:23:17,430 --> 00:23:14,880
in gem there's actually quite a bit of

482
00:23:19,669 --> 00:23:17,440
food in 3.0 ctb containers i believe we

483
00:23:22,149 --> 00:23:19,679
have about 50 containers in there

484
00:23:23,990 --> 00:23:22,159
still some of those are expedition 18

485
00:23:28,070 --> 00:23:24,000
russian food containers

486
00:23:35,669 --> 00:23:30,789
quick note that we have the uh the web

487
00:23:40,070 --> 00:23:37,750
and into columbus

488
00:23:46,149 --> 00:23:40,080

working module and dr thirsk is working

489

00:23:50,549 --> 00:23:47,830

and uh

490

00:23:56,630 --> 00:23:50,559

we'll first swivel around since we're

491

00:24:07,830 --> 00:23:59,029

and the columbus port hatch ring

492

00:24:07,840 --> 00:24:18,230

see the atu and the headset unit there

493

00:24:22,390 --> 00:24:19,990

and uh we've reported in the past that

494

00:24:25,269 --> 00:24:22,400

the hard shell covers for the pfas and

495

00:24:28,149 --> 00:24:25,279

pbe's in here uh a don't seem to fit and

496

00:24:29,590 --> 00:24:28,159

b don't seem to protect and uh if

497

00:24:33,029 --> 00:24:29,600

anything they might be a little bit more

498

00:24:34,390 --> 00:24:33,039

in the way than than uh helpful and uh

499

00:24:37,350 --> 00:24:34,400

we might be looking for some

500

00:24:38,789 --> 00:24:37,360

alternatives there for uh storage

501
00:24:40,789 --> 00:24:38,799
i think probably the only thing you

502
00:24:43,190 --> 00:24:40,799
really need covered is that the pba

503
00:24:44,470 --> 00:24:43,200
there perhaps i'm sorry the the magic

504
00:24:46,950 --> 00:24:44,480
mask itself

505
00:24:48,630 --> 00:24:46,960
and perhaps the top of the pba but

506
00:24:55,110 --> 00:24:48,640
otherwise these are

507
00:25:00,310 --> 00:24:58,070
and with regard to stowage

508
00:25:02,149 --> 00:25:00,320
the only thing that we would consider

509
00:25:03,190 --> 00:25:02,159
soft and dynamic stowage in here is

510
00:25:05,269 --> 00:25:03,200
probably

511
00:25:07,510 --> 00:25:05,279
the columbus forward three area we

512
00:25:08,950 --> 00:25:07,520
reported that we've tried to consolidate

513
00:25:10,149 --> 00:25:08,960

our food rations here as much as

514

00:25:11,590 --> 00:25:10,159

possible

515

00:25:14,149 --> 00:25:11,600

so right now

516

00:25:15,990 --> 00:25:14,159

we are stored in the jpm where i showed

517

00:25:18,710 --> 00:25:16,000

you before and here in columbus forward

518

00:25:21,110 --> 00:25:18,720

three as well as the fgb and no other

519

00:25:23,110 --> 00:25:21,120

locations besides deployed

520

00:25:24,549 --> 00:25:23,120

we have had a beta cloth cover on here

521

00:25:26,310 --> 00:25:24,559

but since we accessed this quite

522

00:25:27,909 --> 00:25:26,320

frequently we've just used the bungee

523

00:25:28,789 --> 00:25:27,919

trap here and that's worked for us quite

524

00:25:30,310 --> 00:25:28,799

well

525

00:25:31,510 --> 00:25:30,320

as you can see

526

00:25:35,110 --> 00:25:31,520

there's still a quite a bit of

527

00:25:38,710 --> 00:25:35,120

expedition 18 russian food here

528

00:25:40,630 --> 00:25:38,720

there's on this date of uh june 18th we

529

00:25:43,190 --> 00:25:40,640

still have about

530

00:25:45,590 --> 00:25:43,200

17 or 18 containers here and then a few

531

00:25:47,669 --> 00:25:45,600

more in jpm so we're still not quite

532

00:25:48,870 --> 00:25:47,679

done burning down the expedition 18

533

00:25:51,269 --> 00:25:48,880

containers

534

00:25:53,430 --> 00:25:51,279

but this area does serve as a very good

535

00:25:54,549 --> 00:25:53,440

staging area for food it's easily

536

00:25:57,990 --> 00:25:54,559

accessed

537

00:25:59,830 --> 00:25:58,000

and easily reorganized as needed

538

00:26:01,430 --> 00:25:59,840

and looking very quickly at the

539

00:26:03,110 --> 00:26:01,440

starboard end cone

540

00:26:06,549 --> 00:26:03,120

some

541

00:26:10,630 --> 00:26:08,710

beneath the power bus distribution and

542

00:26:13,430 --> 00:26:10,640

the caution warning panel

543

00:26:16,149 --> 00:26:13,440

same issue with the pba covers and the

544

00:26:17,830 --> 00:26:16,159

pfe covers here in the end cone

545

00:26:20,149 --> 00:26:17,840

not too helpful but

546

00:26:22,470 --> 00:26:20,159

this is a very low traffic area this

547

00:26:25,190 --> 00:26:22,480

happens to be our recommended location

548

00:26:27,430 --> 00:26:25,200

for setting up bcat again

549

00:26:30,070 --> 00:26:27,440

over here in this area which again is

550

00:26:32,549 --> 00:26:30,080

very low traffic and certainly nobody

551
00:26:33,909 --> 00:26:32,559
lives here and i think that maintaining

552
00:26:36,549 --> 00:26:33,919
access to the emergency equipment would

553
00:26:38,630 --> 00:26:36,559
be quite simple this also fulfills the

554
00:26:41,590 --> 00:26:38,640
be cast requirement to be oriented in

555
00:26:44,710 --> 00:26:41,600
the x-axis in general

556
00:26:46,630 --> 00:26:44,720
so that is columbus

557
00:26:48,390 --> 00:26:46,640
turn around and uh

558
00:26:50,070 --> 00:26:48,400
get a panoramic view of the module from

559
00:26:55,830 --> 00:26:50,080
here

560
00:26:58,549 --> 00:26:55,840
have a lot of temp still on the walls

561
00:27:00,310 --> 00:26:58,559
compared to usual usually uh the walls

562
00:27:03,110 --> 00:27:00,320
here are fairly clean

563
00:27:04,149 --> 00:27:03,120

and uh we will notice that uh we we have

564

00:27:06,390 --> 00:27:04,159

the large

565

00:27:10,070 --> 00:27:06,400

bag here stowed on the deck

566

00:27:11,669 --> 00:27:10,080

which is from the atv and atv equipment

567

00:27:14,470 --> 00:27:11,679

this is probably a very good staging

568

00:27:15,990 --> 00:27:14,480

area for large bags during the sts-127

569

00:27:19,029 --> 00:27:16,000

that we can get them straight in the

570

00:27:21,110 --> 00:27:19,039

door relieve the mid-deck of their

571

00:27:22,789 --> 00:27:21,120

big stowage burden with the big bags and

572

00:27:23,909 --> 00:27:22,799

just pre-staged them here without

573

00:27:25,029 --> 00:27:23,919

messing up the works too much in

574

00:27:28,870 --> 00:27:25,039

columbus

575

00:27:31,590 --> 00:27:28,880

module even with the big stowage on the

576

00:27:35,990 --> 00:27:33,669

and i think that wraps up

577

00:27:38,950 --> 00:27:36,000

what people wanted to see with regard to

578

00:27:39,909 --> 00:27:38,960

hatchways and stowage

579

00:27:41,590 --> 00:27:39,919

and

580

00:27:46,149 --> 00:27:41,600

of course our look in the russian

581

00:27:50,230 --> 00:27:47,269

and while we're coming through here

582

00:27:53,110 --> 00:27:50,240

we'll just take another view of the

583

00:27:58,789 --> 00:27:53,120

node 2 deck 2 area again

584

00:28:03,510 --> 00:28:00,830

with a very nice window

585

00:28:05,990 --> 00:28:03,520

view we sometimes we take it for granted

586

00:28:07,750 --> 00:28:06,000

but uh we often do our phone calling

587

00:28:09,430 --> 00:28:07,760

strung from the bungees overhead here

588

00:28:11,510 --> 00:28:09,440

and looking out the window below it's a

589

00:28:13,510 --> 00:28:11,520

it's a very nice view and this of course

590

00:28:14,630 --> 00:28:13,520

is where the earth cam payload is

591

00:28:16,310 --> 00:28:14,640

deployed

592

00:28:17,669 --> 00:28:16,320

so a stowage here would of course