



1
00:00:05,030 --> 00:00:03,510
good afternoon thank you for joining us

2
00:00:08,070 --> 00:00:05,040
for today's news conference with members

3
00:00:10,470 --> 00:00:08,080
of the expedition 23 crew expedition 23

4
00:00:12,390 --> 00:00:10,480
begins with the soyuz tma-16 undocking

5
00:00:13,749 --> 00:00:12,400
in march these three new crew members

6
00:00:15,910 --> 00:00:13,759
will arrive shortly thereafter on a

7
00:00:18,230 --> 00:00:15,920
soyuz tma-18 their launch is currently

8
00:00:19,510 --> 00:00:18,240
scheduled for april 2nd

9
00:00:21,349 --> 00:00:19,520
with that we'll begin with nasa

10
00:00:22,630 --> 00:00:21,359
astronaut tracy caldwell dyson who will

11
00:00:24,950 --> 00:00:22,640
serve as the flight engineer for this

12
00:00:26,710 --> 00:00:24,960
long duration mission tracy was born in

13
00:00:28,310 --> 00:00:26,720

arcadia california and holds degrees

14

00:00:30,550 --> 00:00:28,320
from california state university at

15

00:00:32,790 --> 00:00:30,560
fullerton and university of california

16

00:00:35,190 --> 00:00:32,800
at davis she was selected by nasa in

17

00:00:37,670 --> 00:00:35,200
1998 and has served numerous technical

18

00:00:39,990 --> 00:00:37,680
roles before her first mission she flew

19

00:00:42,709 --> 00:00:40,000
as a mission specialist on sts-118 in

20

00:00:44,950 --> 00:00:42,719
august 2007. among her tasks for that

21

00:00:47,029 --> 00:00:44,960
mission tracy served as ms-1 assisting

22

00:00:49,270 --> 00:00:47,039
the flight direct flight deck operations

23

00:00:50,950 --> 00:00:49,280
and performed robotic arm operations and

24

00:00:52,470 --> 00:00:50,960
also served as the intravehicular crew

25

00:00:54,790 --> 00:00:52,480
member directing the mission's four

26
00:00:56,709 --> 00:00:54,800
spacewalks tracy accumulated more than

27
00:00:58,790 --> 00:00:56,719
12 days of space flight experiment

28
00:01:00,549 --> 00:00:58,800
experience tracy we'll turn it over you

29
00:01:02,069 --> 00:01:00,559
now to introduce your crew members

30
00:01:03,990 --> 00:01:02,079
thanks nicole

31
00:01:05,189 --> 00:01:04,000
thanks all for being here it's indeed

32
00:01:06,950 --> 00:01:05,199
our pleasure to tell you about our

33
00:01:07,910 --> 00:01:06,960
mission and to answer any questions that

34
00:01:10,310 --> 00:01:07,920
you have

35
00:01:12,630 --> 00:01:10,320
i'll start with introducing ourselves

36
00:01:14,950 --> 00:01:12,640
and then give you a brief overview

37
00:01:16,710 --> 00:01:14,960
describing the our mission

38
00:01:18,710 --> 00:01:16,720

to my right is uh

39

00:01:21,670 --> 00:01:18,720

our soyuz commander sitting in the

40

00:01:23,830 --> 00:01:21,680

center seat this is alexander schwarzoff

41

00:01:25,830 --> 00:01:23,840

he's a colonel in the russian air force

42

00:01:28,230 --> 00:01:25,840

he has over 800 hours in high

43

00:01:29,910 --> 00:01:28,240

performance aircraft including mig-23

44

00:01:31,510 --> 00:01:29,920

and su-27

45

00:01:33,429 --> 00:01:31,520

and he is also

46

00:01:36,069 --> 00:01:33,439

a cosmonaut selected in the year of

47

00:01:38,310 --> 00:01:36,079

1997. this will be his first space

48

00:01:40,550 --> 00:01:38,320

flight and to his right is michal

49

00:01:42,310 --> 00:01:40,560

kornienko and he is

50

00:01:44,550 --> 00:01:42,320

he has a bit of an eclectic background

51
00:01:47,270 --> 00:01:44,560
ranging from paratrooper to an actual

52
00:01:49,270 --> 00:01:47,280
rocket scientist he was

53
00:01:52,870 --> 00:01:49,280
working to develop and test hardware

54
00:01:54,870 --> 00:01:52,880
related to evas on mir and

55
00:01:57,429 --> 00:01:54,880
before being selected as the cosmonaut

56
00:01:58,870 --> 00:01:57,439
in 1998 this will also be his first

57
00:02:00,789 --> 00:01:58,880
mission to space

58
00:02:05,190 --> 00:02:00,799
so i'll turn it to to them to say a few

59
00:02:05,200 --> 00:02:18,070
previously

60
00:02:22,710 --> 00:02:20,550
i'm happy to greet you all here and i

61
00:02:24,790 --> 00:02:22,720
want to thank you for

62
00:02:26,150 --> 00:02:24,800
inviting me to this press conference i

63
00:02:27,350 --> 00:02:26,160

think that this will be a very good

64

00:02:44,070 --> 00:02:27,360

event and we'll have a very good

65

00:02:48,390 --> 00:02:46,790

yes i will also um thank everybody for

66

00:02:49,910 --> 00:02:48,400

coming here today and i think that we

67

00:02:51,509 --> 00:02:49,920

will have a very good discussion i'll be

68

00:02:54,949 --> 00:02:51,519

very happy to answer any questions that

69

00:02:59,910 --> 00:02:57,190

and as nicole said i'm tracy caldwell

70

00:03:02,470 --> 00:02:59,920

dyson i'll be uh accompanying them in

71

00:03:05,270 --> 00:03:02,480

the soyuz uh in the right seat and

72

00:03:06,949 --> 00:03:05,280

looking forward to this mission

73

00:03:08,630 --> 00:03:06,959

we have highlights

74

00:03:11,190 --> 00:03:08,640

of our mission

75

00:03:12,949 --> 00:03:11,200

mainly focusing around vehicle traffic

76

00:03:16,309 --> 00:03:12,959

during our mission we'll see progress

77

00:03:19,030 --> 00:03:16,319

shuttles and soyuz we will have both a

78

00:03:20,949 --> 00:03:19,040

u.s. stage a u.s. stage eva as well as a

79

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

russian stage eva

80

00:03:25,830 --> 00:03:23,440

and a whole host of science experiments

81

00:03:28,309 --> 00:03:25,840

and iss maintenance to perform

82

00:03:30,309 --> 00:03:28,319

our increment spans the months between

83

00:03:32,550 --> 00:03:30,319

april through september

84

00:03:35,589 --> 00:03:32,560

starting with our launch april 2nd

85

00:03:37,509 --> 00:03:35,599

from baikonur cosmodrome in kazakhstan

86

00:03:40,229 --> 00:03:37,519

we'll talk to the space station two days

87

00:03:42,710 --> 00:03:40,239

later to join the expedition 23 crew

88

00:03:44,949 --> 00:03:42,720

commanded by oleg kotov tj kramer and

89

00:03:47,910 --> 00:03:44,959

suichi naguchi

90

00:03:51,509 --> 00:03:47,920

not long after we arrive and get settled

91

00:03:53,670 --> 00:03:51,519

in we will undock progress 35 to make

92

00:03:55,670 --> 00:03:53,680

way for progress 37 to launch and dock

93

00:03:57,589 --> 00:03:55,680

in its place carrying with it many

94

00:03:58,550 --> 00:03:57,599

supplies that we will spend

95

00:04:00,949 --> 00:03:58,560

hours

96

00:04:02,630 --> 00:04:00,959

transferring and putting in their place

97

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

the month of may is also going to be

98

00:04:08,869 --> 00:04:06,239

quite busy for us again uh progress 36

99

00:04:12,789 --> 00:04:08,879

will be undocking and this is in

100

00:04:15,350 --> 00:04:12,799

preparation for uh opening up ports on

101
00:04:17,030 --> 00:04:15,360
the space station for new modules to

102
00:04:19,509 --> 00:04:17,040
arrive

103
00:04:21,430 --> 00:04:19,519
the 21s crew oleg and his crew will

104
00:04:24,550 --> 00:04:21,440
relocate their soyuz

105
00:04:26,550 --> 00:04:24,560
shortly after that from the fgb to the

106
00:04:28,790 --> 00:04:26,560
aft end of the sm and that is in

107
00:04:30,710 --> 00:04:28,800
preparation for the module that the

108
00:04:33,110 --> 00:04:30,720
shuttle crew will be bringing up

109
00:04:34,550 --> 00:04:33,120
the russian mini research module one

110
00:04:36,469 --> 00:04:34,560
named rasviet

111
00:04:37,749 --> 00:04:36,479
shortly after uh shortly after that

112
00:04:42,070 --> 00:04:37,759
relocation

113
00:04:44,469 --> 00:04:42,080

the crew of sts-134 132 ulf4 commanded

114

00:04:45,830 --> 00:04:44,479

by ken hamm will be arriving and their

115

00:04:49,030 --> 00:04:45,840

crew and their payload bay will be

116

00:04:51,830 --> 00:04:49,040

bringing this russian module the mrm1

117

00:04:53,430 --> 00:04:51,840

they'll be using the robotic arm to

118

00:04:56,550 --> 00:04:53,440

take it out of the payload bay and

119

00:04:58,150 --> 00:04:56,560

attach it in place to the fgb and they

120

00:05:00,950 --> 00:04:58,160

also will be bringing up a number of

121

00:05:02,230 --> 00:05:00,960

spare parts batteries as well as

122

00:05:05,270 --> 00:05:02,240

antennas

123

00:05:08,230 --> 00:05:05,280

in their payload bay and also equipment

124

00:05:09,029 --> 00:05:08,240

related to our stage evas

125

00:05:11,029 --> 00:05:09,039

to

126

00:05:12,469 --> 00:05:11,039

assist us

127

00:05:13,990 --> 00:05:12,479

they will stay docked for about eight

128

00:05:16,230 --> 00:05:14,000

days and

129

00:05:19,110 --> 00:05:16,240

and we will wave goodbye to them

130

00:05:22,629 --> 00:05:19,120

towards the end of may and at that time

131

00:05:24,550 --> 00:05:22,639

our crewmates from expedition 23 will

132

00:05:26,790 --> 00:05:24,560

be prepared to come home

133

00:05:28,390 --> 00:05:26,800

ola kotov will then be handing over the

134

00:05:29,749 --> 00:05:28,400

command of the space station to

135

00:05:31,590 --> 00:05:29,759

alexander

136

00:05:34,550 --> 00:05:31,600

and that will mark the end of expedition

137

00:05:35,909 --> 00:05:34,560

23 and the start of expedition 24 as

138

00:05:39,189 --> 00:05:35,919

they

139

00:05:41,029 --> 00:05:39,199

ingress their soyuz undock and come home

140

00:05:43,270 --> 00:05:41,039

the first two weeks of june we will

141

00:05:45,749 --> 00:05:43,280

spend as a three-person crew

142

00:05:47,430 --> 00:05:45,759

starting off expedition 24 with

143

00:05:49,270 --> 00:05:47,440

alexander in command of the space

144

00:05:51,110 --> 00:05:49,280

station

145

00:05:54,950 --> 00:05:51,120

mid-month june

146

00:05:57,350 --> 00:05:54,960

the crew of 23 soyuz 23 which will be

147

00:05:59,189 --> 00:05:57,360

commanded by fiorder yurchikhin

148

00:06:00,870 --> 00:05:59,199

and in the center seat left seat will be

149

00:06:03,110 --> 00:06:00,880

shannon walker and

150

00:06:05,590 --> 00:06:03,120

doug wheelock will be in the right seat

151
00:06:08,550 --> 00:06:05,600
and they will come join us on the 16th

152
00:06:10,309 --> 00:06:08,560
to become part of expedition 24.

153
00:06:12,550 --> 00:06:10,319
shortly after they arrive after we give

154
00:06:14,230 --> 00:06:12,560
them a few weeks of adaptation we'll put

155
00:06:17,510 --> 00:06:14,240
them back into their soyuz and they will

156
00:06:21,110 --> 00:06:17,520
relocate from the sm aft

157
00:06:22,309 --> 00:06:21,120
to the mrm 1 port and be the first to

158
00:06:24,790 --> 00:06:22,319
dock

159
00:06:27,029 --> 00:06:24,800
on that port

160
00:06:29,270 --> 00:06:27,039
and then shortly there after toward the

161
00:06:30,070 --> 00:06:29,280
end of that month we will then

162
00:06:32,790 --> 00:06:30,080
launch

163
00:06:35,670 --> 00:06:32,800

progress 38 and again with new supplies

164

00:06:38,070 --> 00:06:35,680

that will keep us busy with transfer

165

00:06:40,710 --> 00:06:38,080

during those couple weeks following the

166

00:06:42,550 --> 00:06:40,720

law the docking the month of july is a

167

00:06:45,110 --> 00:06:42,560

rather exciting time for us as uh

168

00:06:48,230 --> 00:06:45,120

increment crew as we look forward to

169

00:06:50,469 --> 00:06:48,240

both our u.s segment eva number 15

170

00:06:53,350 --> 00:06:50,479

and our russian segment eva

171

00:06:56,390 --> 00:06:53,360

number 25. the the main task of our

172

00:06:58,710 --> 00:06:56,400

us eva will be to install a pdgf which

173

00:07:00,629 --> 00:06:58,720

is a grapple fixture for the robotic arm

174

00:07:01,510 --> 00:07:00,639

that will be installed on the

175

00:07:04,390 --> 00:07:01,520

top

176
00:07:06,790 --> 00:07:04,400
port side of the fgb module and that's

177
00:07:09,749 --> 00:07:06,800
for future robotic missions

178
00:07:11,189 --> 00:07:09,759
the content of the russian eba will be

179
00:07:13,830 --> 00:07:11,199
one of the main tasks will be centered

180
00:07:15,350 --> 00:07:13,840
around installing cables for the new mrn

181
00:07:18,790 --> 00:07:15,360
module and if there's any questions

182
00:07:20,550 --> 00:07:18,800
related to that our space walker michal

183
00:07:23,110 --> 00:07:20,560
will be able to answer that space

184
00:07:24,950 --> 00:07:23,120
walkers for the u.s eva will be doug

185
00:07:26,070 --> 00:07:24,960
wheelock and myself and will be

186
00:07:29,189 --> 00:07:26,080
supported

187
00:07:31,990 --> 00:07:29,199
on orbit as iv shannon walker and from

188
00:07:34,309 --> 00:07:32,000

mcc oscar kaler

189

00:07:36,629 --> 00:07:34,319

on the russian segment ava will have

190

00:07:40,390 --> 00:07:36,639

mikhail kornienko and also fyodor your

191

00:07:43,830 --> 00:07:42,469

rounding the end of july we will see our

192

00:07:47,510 --> 00:07:43,840

second shuttle

193

00:07:49,990 --> 00:07:47,520

guests arrive sts-134 ulf-6 commanded by

194

00:07:52,469 --> 00:07:50,000

mark kelly they'll be bringing with them

195

00:07:54,710 --> 00:07:52,479

a pallet full of spares as well

196

00:07:57,510 --> 00:07:54,720

ranging from high pressure gas tanks to

197

00:07:59,110 --> 00:07:57,520

mmod shields as well as a few s-band

198

00:08:01,670 --> 00:07:59,120

antennas but probably the most

199

00:08:03,670 --> 00:08:01,680

high-profile payload will be the ams the

200

00:08:05,110 --> 00:08:03,680

alpha magnetic spectrometer they'll use

201
00:08:11,110 --> 00:08:05,120
to

202
00:08:13,990 --> 00:08:11,120
cosmic rays in deep space

203
00:08:16,469 --> 00:08:14,000
we'll have about a a quiet period as far

204
00:08:18,790 --> 00:08:16,479
as vehicle traffic goes uh after that

205
00:08:21,990 --> 00:08:18,800
for about a month until um

206
00:08:24,869 --> 00:08:22,000
the later part of august and during that

207
00:08:26,790 --> 00:08:24,879
time as well as all the months

208
00:08:29,029 --> 00:08:26,800
that we will be on station will be busy

209
00:08:31,350 --> 00:08:29,039
of course doing uh utilizing the space

210
00:08:33,589 --> 00:08:31,360
station for the science it was designed

211
00:08:36,310 --> 00:08:33,599
and um but i'm sure during that period

212
00:08:38,790 --> 00:08:36,320
of quiescence uh from vehicle traffic

213
00:08:40,469 --> 00:08:38,800

that we will be uh full force as a

214

00:08:42,310 --> 00:08:40,479

six-person crew

215

00:08:45,269 --> 00:08:42,320

involved in science

216

00:08:47,590 --> 00:08:45,279

and be able to focus on that

217

00:08:49,829 --> 00:08:47,600

towards the end of august we will undock

218

00:08:51,829 --> 00:08:49,839

progress 38 to make room for our new

219

00:08:55,430 --> 00:08:51,839

progress 39 that will launch shortly

220

00:08:58,710 --> 00:08:55,440

after that in dock and by mid-september

221

00:09:00,949 --> 00:08:58,720

we will uh be packing up our things and

222

00:09:02,870 --> 00:09:00,959

ingressing our soyuz

223

00:09:04,949 --> 00:09:02,880

sasha alexander will be handing over

224

00:09:06,310 --> 00:09:04,959

command of the space station then to

225

00:09:08,790 --> 00:09:06,320

doug wheelock who will become the

226

00:09:09,670 --> 00:09:08,800

commander of expedition 25

227

00:09:12,150 --> 00:09:09,680

and

228

00:09:14,470 --> 00:09:12,160

the undock of our soyuz will mark the

229

00:09:15,509 --> 00:09:14,480

beginning of that expedition

230

00:09:19,030 --> 00:09:15,519

and

231

00:09:21,110 --> 00:09:19,040

the conclusion of our increment 23-24

232

00:09:22,630 --> 00:09:21,120

we will our scheduled

233

00:09:25,190 --> 00:09:22,640

date of departure

234

00:09:26,150 --> 00:09:25,200

currently coincides with the last

235

00:09:28,030 --> 00:09:26,160

with the

236

00:09:30,870 --> 00:09:28,040

launch of the final shuttle mission

237

00:09:34,829 --> 00:09:30,880

sts-133 ulf-5

238

00:09:37,509 --> 00:09:34,839

and that in a nutshell is our increment

239

00:09:39,430 --> 00:09:37,519

23-24 you thank you so much tracy that's

240

00:09:41,030 --> 00:09:39,440

a great overview with that we'll start

241

00:09:42,630 --> 00:09:41,040

questions here from the briefing room if

242

00:09:44,070 --> 00:09:42,640

you'll just indicate if you have a

243

00:09:46,470 --> 00:09:44,080

question we'll start on this side please

244

00:09:49,350 --> 00:09:46,480

state your name and affiliation

245

00:09:51,190 --> 00:09:49,360

uh jim oberg with nbc news i'm pretty up

246

00:09:53,590 --> 00:09:51,200

and uh i would ask all three of you to

247

00:09:55,990 --> 00:09:53,600

describe it in your training

248

00:09:57,670 --> 00:09:56,000

in the past few in the past year

249

00:09:58,870 --> 00:09:57,680

you got darren cosby training center

250

00:10:00,710 --> 00:09:58,880

moscow has

251
00:10:02,389 --> 00:10:00,720
switched to civilian control and left a

252
00:10:05,030 --> 00:10:02,399
lot of military

253
00:10:06,949 --> 00:10:05,040
support how has the change in the uh

254
00:10:08,389 --> 00:10:06,959
management and the resources at the

255
00:10:11,350 --> 00:10:08,399
gagarin center

256
00:10:13,190 --> 00:10:11,360
affected your training and how how

257
00:10:15,269 --> 00:10:13,200
how do you see them recovering and

258
00:10:17,190 --> 00:10:15,279
recovering their their quality which

259
00:10:19,190 --> 00:10:17,200
they're maintaining but but how did that

260
00:10:21,030 --> 00:10:19,200
affect your training if at all

261
00:10:25,030 --> 00:10:21,040
the change in the leadership and change

262
00:10:27,350 --> 00:10:25,040
in the in the funding of the gagarin

263
00:10:29,269 --> 00:10:27,360

cosmos training center

264

00:10:31,670 --> 00:10:29,279

each of you please

265

00:10:34,150 --> 00:10:31,680

well i'll start

266

00:10:36,150 --> 00:10:34,160

they'll probably be able to give you a

267

00:10:38,710 --> 00:10:36,160

more in-depth answer than myself since

268

00:10:41,990 --> 00:10:38,720

this transition took place uh

269

00:10:44,630 --> 00:10:42,000

at a time where i had fewer trips left

270

00:10:47,910 --> 00:10:44,640

when i come when i leave here to

271

00:10:49,829 --> 00:10:47,920

join my crew in in moscow for the final

272

00:10:52,389 --> 00:10:49,839

stages of our training and

273

00:10:55,190 --> 00:10:52,399

and certification i'll probably have a

274

00:10:55,910 --> 00:10:55,200

better idea of of the change but

275

00:10:58,069 --> 00:10:55,920

uh

276

00:11:00,870 --> 00:10:58,079

from what we can tell mostly it affects

277

00:11:02,069 --> 00:11:00,880

our schedule as as with any organization

278

00:11:04,069 --> 00:11:02,079

when you

279

00:11:07,829 --> 00:11:04,079

change leadership

280

00:11:12,870 --> 00:11:10,150

turnover there's a lot of

281

00:11:14,710 --> 00:11:12,880

dust to be cleared as they're trying to

282

00:11:16,710 --> 00:11:14,720

reorganize themselves and as such i

283

00:11:20,069 --> 00:11:16,720

think it mostly affects us in terms of

284

00:11:22,389 --> 00:11:20,079

our schedule availability of instructors

285

00:11:24,710 --> 00:11:22,399

as well as understanding the new process

286

00:11:27,110 --> 00:11:24,720

so maybe just a few delays

287

00:11:29,430 --> 00:11:27,120

but i can tell you that the

288

00:11:31,670 --> 00:11:29,440

the staff of instructors there are just

289

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

as dedicated um

290

00:11:39,590 --> 00:11:33,600

through this whole transition period as

291

00:11:39,600 --> 00:12:08,150

no yes

292

00:12:13,269 --> 00:12:10,629

i will have to agree completely

293

00:12:16,310 --> 00:12:13,279

transition period always means certain

294

00:12:17,750 --> 00:12:16,320

losses but um i feel that our management

295

00:12:19,590 --> 00:12:17,760

has been very diligent and they've been

296

00:12:21,350 --> 00:12:19,600

working very hard to

297

00:12:23,110 --> 00:12:21,360

make sure that the losses that we do

298

00:12:25,670 --> 00:12:23,120

experience are a minimum

299

00:12:27,590 --> 00:12:25,680

and especially where it concerns the

300

00:12:30,069 --> 00:12:27,600

crews that are at the end of their

301
00:12:35,030 --> 00:12:30,079
training cycle and who are ready to fly

302
00:12:35,040 --> 00:13:03,190
maximum

303
00:13:06,949 --> 00:13:05,110
a member of the backup crew

304
00:13:08,710 --> 00:13:06,959
for the expedition that is currently on

305
00:13:09,750 --> 00:13:08,720
board this guy is launched on september

306
00:13:11,910 --> 00:13:09,760
30th

307
00:13:14,069 --> 00:13:11,920
max sarai of jeff williams and you can

308
00:13:16,150 --> 00:13:14,079
see how well they're working together in

309
00:13:18,470 --> 00:13:16,160
space so you can see that it

310
00:13:20,550 --> 00:13:18,480
has virtually not affected their work

311
00:13:22,069 --> 00:13:20,560
whatsoever so i expect that this will

312
00:13:43,990 --> 00:13:22,079
not have any impact on our training as

313
00:13:48,470 --> 00:13:45,829

the reason i bring up this particular

314

00:13:50,629 --> 00:13:48,480

crew is because this was the first crew

315

00:13:51,790 --> 00:13:50,639

that flew in orbit

316

00:13:53,590 --> 00:13:51,800

after the

317

00:13:54,550 --> 00:13:53,600

organization of

318

00:13:56,230 --> 00:13:54,560

our

319

00:13:58,629 --> 00:13:56,240

organization but

320

00:14:00,790 --> 00:13:58,639

i just want to emphasize that

321

00:14:03,350 --> 00:14:00,800

we have always been the center for

322

00:14:10,389 --> 00:14:03,360

cosmonaut training and we will remain

323

00:14:10,399 --> 00:14:17,910

congratulations on the 50th anniversary

324

00:14:21,430 --> 00:14:19,829

extra question you'll be the first time

325

00:14:23,590 --> 00:14:21,440

with three russian hazardous on the

326

00:14:25,030 --> 00:14:23,600

expedition crew i believe

327

00:14:59,750 --> 00:14:25,040

so who does not get to sleep in the

328

00:15:03,030 --> 00:15:01,269

i have to say that this is a very

329

00:15:05,829 --> 00:15:03,040

depressing concern for us and we have

330

00:15:09,030 --> 00:15:05,839

been discussed discussing this relevant

331

00:15:11,590 --> 00:15:09,040

issue with um oleg and with maxime and

332

00:15:13,509 --> 00:15:11,600

actually yesterday we spoke to a photo

333

00:15:15,110 --> 00:15:13,519

of your chicken and he gave us some tips

334

00:15:24,949 --> 00:15:15,120

as well but i'm pretty sure that we'll

335

00:15:28,310 --> 00:15:26,710

because we're planning to have six crew

336

00:15:30,150 --> 00:15:28,320

members on board i'm pretty sure we'll

337

00:15:37,230 --> 00:15:30,160

find a place for everyone where they can

338

00:15:41,269 --> 00:15:39,269

collectspace.com um i think a question

339

00:15:42,629 --> 00:15:41,279

for tracy uh not that you don't have

340

00:15:45,509 --> 00:15:42,639

enough things coming and going but i

341

00:15:47,269 --> 00:15:45,519

think during your stay you also um while

342

00:15:49,829 --> 00:15:47,279

it won't come near the iss there might

343

00:15:52,389 --> 00:15:49,839

be one or two falcon 9

344

00:15:54,389 --> 00:15:52,399

launches as a demonstration flights and

345

00:15:56,470 --> 00:15:54,399

on one of their update one of spacex's

346

00:15:57,990 --> 00:15:56,480

updates they showed you visiting

347

00:16:00,150 --> 00:15:58,000

their facility

348

00:16:02,870 --> 00:16:00,160

do you have any uh

349

00:16:04,550 --> 00:16:02,880

any tasks or um or

350

00:16:06,710 --> 00:16:04,560

responsibilities on board the iss to

351
00:16:09,269 --> 00:16:06,720
prepare for the future arrival of

352
00:16:11,590 --> 00:16:09,279
commercial cargo transfer vehicles such

353
00:16:14,069 --> 00:16:11,600
as falcon 9 and dragon

354
00:16:15,590 --> 00:16:14,079
yeah the way the crews mainly interface

355
00:16:17,910 --> 00:16:15,600
with these vehicles

356
00:16:20,069 --> 00:16:17,920
are through first of all

357
00:16:24,310 --> 00:16:20,079
the ones that involve grappling as

358
00:16:25,350 --> 00:16:24,320
robotic operators were responsible for

359
00:16:26,629 --> 00:16:25,360
attaching

360
00:16:28,870 --> 00:16:26,639
the uh

361
00:16:31,430 --> 00:16:28,880
to to the vehicle and then attaching

362
00:16:33,590 --> 00:16:31,440
that vehicle to the space station so as

363
00:16:35,829 --> 00:16:33,600

robotic operators were trained uh

364

00:16:38,069 --> 00:16:35,839

generically to do that but then also

365

00:16:39,189 --> 00:16:38,079

when we when it comes close to

366

00:16:41,430 --> 00:16:39,199

uh

367

00:16:43,269 --> 00:16:41,440

determining when that vehicle will

368

00:16:45,030 --> 00:16:43,279

appear in an increment we get more

369

00:16:46,389 --> 00:16:45,040

specific about the vehicle and the the

370

00:16:48,470 --> 00:16:46,399

nuances of

371

00:16:51,189 --> 00:16:48,480

of that vehicle and in terms of

372

00:16:53,430 --> 00:16:51,199

grappling to it but certainly all of us

373

00:16:54,790 --> 00:16:53,440

learn how to once the

374

00:16:56,790 --> 00:16:54,800

the vehicle is docked to the space

375

00:16:59,189 --> 00:16:56,800

station all of the mechanisms involving

376

00:17:01,829 --> 00:16:59,199

the hatch work all of us learn to the

377

00:17:03,590 --> 00:17:01,839

specifics of of that as well as entering

378

00:17:04,630 --> 00:17:03,600

the vehicle sometimes the vehicle will

379

00:17:06,949 --> 00:17:04,640

have

380

00:17:07,909 --> 00:17:06,959

a different layout in terms of stowage

381

00:17:11,350 --> 00:17:07,919

and

382

00:17:13,110 --> 00:17:11,360

specifically

383

00:17:15,990 --> 00:17:13,120

those details

384

00:17:16,710 --> 00:17:16,000

in visiting those sites and and

385

00:17:23,669 --> 00:17:16,720

as

386

00:17:25,829 --> 00:17:23,679

to when those vehicles will appear crews

387

00:17:28,069 --> 00:17:25,839

will make visits to those

388

00:17:30,150 --> 00:17:28,079

sites to learn the details

389

00:17:31,990 --> 00:17:30,160

we all learn pretty generically how to

390

00:17:33,909 --> 00:17:32,000

how to operate hatches but sometimes

391

00:17:35,669 --> 00:17:33,919

there's some some differences some

392

00:17:39,510 --> 00:17:35,679

nuances that

393

00:17:44,070 --> 00:17:41,990

and you also mentioned the arrival of

394

00:17:45,990 --> 00:17:44,080

the alpha magnetic spectrometer during

395

00:17:47,830 --> 00:17:46,000

your stay

396

00:17:50,870 --> 00:17:47,840

does that go into service while you're

397

00:17:51,669 --> 00:17:50,880

there or is it just installed and if it

398

00:17:53,990 --> 00:17:51,679

does

399

00:17:55,510 --> 00:17:54,000

um are you is are you the point person

400

00:17:57,830 --> 00:17:55,520

or is there someone else on the on the

401
00:17:59,590 --> 00:17:57,840
expedition 24 crew that's the point

402
00:18:01,750 --> 00:17:59,600
person for uh

403
00:18:03,430 --> 00:18:01,760
for seeing it come online i guess

404
00:18:05,510 --> 00:18:03,440
well i'd certainly like to pass the buck

405
00:18:07,510 --> 00:18:05,520
on to the 24 crew because i i don't know

406
00:18:09,669 --> 00:18:07,520
much about the

407
00:18:11,750 --> 00:18:09,679
spectrometer myself what i do know is

408
00:18:14,070 --> 00:18:11,760
that it's going to be coming up and

409
00:18:15,830 --> 00:18:14,080
installed during that shuttle mission

410
00:18:19,990 --> 00:18:15,840
and

411
00:18:22,150 --> 00:18:20,000
actually utilized

412
00:18:26,390 --> 00:18:22,160
i haven't i haven't had any training on

413
00:18:29,110 --> 00:18:26,400

it and do not know at this time so

414

00:18:31,430 --> 00:18:29,120

okay next question marianne dyson with

415

00:18:34,390 --> 00:18:31,440

national space society a question for

416

00:18:36,710 --> 00:18:34,400

tracy caldwell dyson no relation um

417

00:18:38,230 --> 00:18:36,720

i'm wondering which science experiment

418

00:18:39,270 --> 00:18:38,240

you're most looking forward to doing i

419

00:18:41,669 --> 00:18:39,280

notice you have your background in

420

00:18:44,549 --> 00:18:41,679

chemistry is there a particular

421

00:18:46,950 --> 00:18:44,559

experiment that you're excited about

422

00:18:48,630 --> 00:18:46,960

well uh

423

00:18:51,270 --> 00:18:48,640

gosh you know

424

00:18:53,590 --> 00:18:51,280

there's not one particular experiment

425

00:18:55,430 --> 00:18:53,600

that i can i can identify right now

426

00:18:57,350 --> 00:18:55,440

because

427

00:18:59,110 --> 00:18:57,360

as a crew member in training i'm i'm

428

00:19:00,150 --> 00:18:59,120

studying these things more than i am

429

00:19:01,110 --> 00:19:00,160

doing them

430

00:19:05,029 --> 00:19:01,120

and

431

00:19:06,470 --> 00:19:05,039

question uh more towards the middle of

432

00:19:08,549 --> 00:19:06,480

my increment i bet i'll have a better

433

00:19:10,950 --> 00:19:08,559

answer for you but i can tell you as a

434

00:19:12,549 --> 00:19:10,960

as a chemist and a science test by

435

00:19:14,710 --> 00:19:12,559

background

436

00:19:15,750 --> 00:19:14,720

i am looking forward to

437

00:19:18,390 --> 00:19:15,760

um

438

00:19:20,390 --> 00:19:18,400

something that as a as a researcher

439

00:19:22,710 --> 00:19:20,400

myself

440

00:19:23,990 --> 00:19:22,720

i never you know i i enjoy what i

441

00:19:25,510 --> 00:19:24,000

enjoyed the most about being a

442

00:19:28,950 --> 00:19:25,520

researcher was actually being in the lab

443

00:19:30,549 --> 00:19:28,960

and getting my my hands on the equipment

444

00:19:32,150 --> 00:19:30,559

and actually

445

00:19:33,750 --> 00:19:32,160

creating the science from that

446

00:19:36,390 --> 00:19:33,760

standpoint

447

00:19:38,310 --> 00:19:36,400

and so that part i will definitely enjoy

448

00:19:40,950 --> 00:19:38,320

especially the the physical science

449

00:19:44,310 --> 00:19:40,960

based experiments the biological space

450

00:19:46,630 --> 00:19:44,320

um biological science experiments

451

00:19:48,150 --> 00:19:46,640

uh the the principal investigators

452

00:19:49,909 --> 00:19:48,160

though of all these experiments are the

453

00:19:52,070 --> 00:19:49,919

ones that are really the the brains

454

00:19:54,070 --> 00:19:52,080

behind developing them and the the

455

00:19:57,110 --> 00:19:54,080

brains behind interpreting the data

456

00:20:00,630 --> 00:19:57,120

that's received and so i am more

457

00:20:02,149 --> 00:20:00,640

for them a wrench monkey to to get their

458

00:20:03,510 --> 00:20:02,159

experiment put in place and they're the

459

00:20:06,870 --> 00:20:03,520

ones that actually

460

00:20:08,710 --> 00:20:06,880

run it but i am looking forward to uh

461

00:20:10,789 --> 00:20:08,720

to setting those things up and to

462

00:20:12,310 --> 00:20:10,799

getting the getting everything just

463

00:20:13,750 --> 00:20:12,320

right so that they can get the data that

464

00:20:16,470 --> 00:20:13,760

they need because i know

465

00:20:18,310 --> 00:20:16,480

firsthand how much work went into

466

00:20:19,750 --> 00:20:18,320

getting those prepared

467

00:20:21,270 --> 00:20:19,760

and

468

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

all the work that it took to get the

469

00:20:24,710 --> 00:20:23,520

time to get the data out of it so i'm

470

00:20:26,870 --> 00:20:24,720

looking forward to it from that

471

00:20:28,310 --> 00:20:26,880

standpoint just about every experiment

472

00:20:29,830 --> 00:20:28,320

then there's also experiments where i'm

473

00:20:32,549 --> 00:20:29,840

actually the subject

474

00:20:35,590 --> 00:20:32,559

and uh in those

475

00:20:39,110 --> 00:20:35,600

i'm looking forward to the aspect of

476

00:20:40,789 --> 00:20:39,120
of performing these experiments

477

00:20:43,110 --> 00:20:40,799
in ways that i've i mean i've never had

478

00:20:45,669 --> 00:20:43,120
to uh you know for instance

479

00:20:49,190 --> 00:20:45,679
uh image my own heart or take my own

480

00:20:52,549 --> 00:20:50,549
the way i've been trained i've been

481

00:20:54,310 --> 00:20:52,559
trained very well that once i get on

482

00:20:56,390 --> 00:20:54,320
orbit and try to transfer those skills

483

00:20:57,830 --> 00:20:56,400
to microgravity that

484

00:20:59,750 --> 00:20:57,840
i'll be able to

485

00:21:01,110 --> 00:20:59,760
get them the data that they need they

486

00:21:03,029 --> 00:21:01,120
they need and that they're looking

487

00:21:04,630 --> 00:21:03,039
forward to so i hope that you'll stay

488

00:21:05,750 --> 00:21:04,640

tuned and ask questions more towards the

489

00:21:07,909 --> 00:21:05,760

middle of my increment when i actually

490

00:21:10,310 --> 00:21:07,919

have some experience with working with

491

00:21:15,510 --> 00:21:11,510

right

492

00:21:20,149 --> 00:21:18,070

jill talk with bay area houston magazine

493

00:21:21,029 --> 00:21:20,159

i have two questions so tracy i'll start

494

00:21:23,430 --> 00:21:21,039

with you

495

00:21:25,029 --> 00:21:23,440

i noticed that one of the first

496

00:21:26,710 --> 00:21:25,039

technical assignments you had after

497

00:21:28,789 --> 00:21:26,720

being selected as an astronaut was as a

498

00:21:30,789 --> 00:21:28,799

russian crusader you've flown on a

499

00:21:32,630 --> 00:21:30,799

shuttle had a great adventure of course

500

00:21:36,149 --> 00:21:32,640

and now you have the experience of

501
00:21:38,149 --> 00:21:36,159
flying in on soyuz on station

502
00:21:41,909 --> 00:21:38,159
so does any of your how does your

503
00:21:43,590 --> 00:21:41,919
background and experience thus far

504
00:21:46,470 --> 00:21:43,600
help translate the station and the

505
00:21:49,350 --> 00:21:46,480
experience and people you've met

506
00:21:51,990 --> 00:21:49,360
wow well it's hard to put that answer in

507
00:21:54,549 --> 00:21:52,000
a nutshell and you've

508
00:21:56,950 --> 00:21:54,559
kind of encapsulated pretty well all of

509
00:21:59,029 --> 00:21:56,960
the all of the training i've had

510
00:22:02,630 --> 00:21:59,039
to prepare me for this mission for

511
00:22:04,789 --> 00:22:02,640
increment 2324 that yes indeed i as a

512
00:22:06,149 --> 00:22:04,799
new astronaut i spent a significant

513
00:22:08,789 --> 00:22:06,159

amount of time

514

00:22:12,390 --> 00:22:08,799

in russia mainly in moscow working at

515

00:22:14,390 --> 00:22:12,400

inargua but as well at gctc interfacing

516

00:22:16,070 --> 00:22:14,400

with all of the hardware software and

517

00:22:18,470 --> 00:22:16,080

schematics that we would use as crew

518

00:22:20,789 --> 00:22:18,480

members on orbit to make sure that those

519

00:22:22,950 --> 00:22:20,799

those products if you will

520

00:22:25,750 --> 00:22:22,960

were going to be

521

00:22:28,390 --> 00:22:25,760

in the right you know training language

522

00:22:30,070 --> 00:22:28,400

uh for the crew so that

523

00:22:31,750 --> 00:22:30,080

what they saw in orbit was what they

524

00:22:35,510 --> 00:22:31,760

have been training with here on the

525

00:22:38,310 --> 00:22:35,520

ground so i have i've had a a lot of

526

00:22:40,789 --> 00:22:38,320

exposure to the space station

527

00:22:42,789 --> 00:22:40,799

modules from the inside to the outside

528

00:22:45,510 --> 00:22:42,799

from the very beginning before we ever

529

00:22:46,390 --> 00:22:45,520

launched the fgb i was learning about it

530

00:22:48,070 --> 00:22:46,400

so

531

00:22:49,909 --> 00:22:48,080

i think that that has

532

00:22:52,310 --> 00:22:49,919

served me well in preparation for this

533

00:22:55,669 --> 00:22:52,320

flight so that i could concentrate on

534

00:22:58,390 --> 00:22:55,679

all of the uh the larger aspects um

535

00:23:00,470 --> 00:22:58,400

you know the the the station is so

536

00:23:02,950 --> 00:23:00,480

voluminous it's even i think twice as

537

00:23:04,870 --> 00:23:02,960

big as it was when i visited as a

538

00:23:06,950 --> 00:23:04,880

shuttle crew member so there's just a

539

00:23:09,350 --> 00:23:06,960

tremendous amount of information to know

540

00:23:10,950 --> 00:23:09,360

and i'm i'm very grateful for the

541

00:23:13,430 --> 00:23:10,960

experience i've had since i got here

542

00:23:14,870 --> 00:23:13,440

that it feels almost like a head start

543

00:23:16,470 --> 00:23:14,880

in terms of preparing for this

544

00:23:17,990 --> 00:23:16,480

particular mission

545

00:23:20,950 --> 00:23:18,000

uh the

546

00:23:24,390 --> 00:23:20,960

uh from from that to even the the period

547

00:23:26,789 --> 00:23:24,400

of time i spent as a capcom in mcc has

548

00:23:28,549 --> 00:23:26,799

also been invaluable to preparing for

549

00:23:31,669 --> 00:23:28,559

this mission because on a shuttle

550

00:23:34,310 --> 00:23:31,679

mission it's a very fast-paced life and

551
00:23:35,270 --> 00:23:34,320
we spend every single day going at full

552
00:23:37,190 --> 00:23:35,280
throttle

553
00:23:39,430 --> 00:23:37,200
and on the space station

554
00:23:42,230 --> 00:23:39,440
as you all know it's a much more

555
00:23:43,590 --> 00:23:42,240
relaxed pace a sustained pace where you

556
00:23:44,630 --> 00:23:43,600
live where you work and you work where

557
00:23:47,190 --> 00:23:44,640
you live

558
00:23:49,190 --> 00:23:47,200
and you the relationship that you

559
00:23:51,669 --> 00:23:49,200
develop with your team

560
00:23:52,710 --> 00:23:51,679
in mcc

561
00:23:54,470 --> 00:23:52,720
really

562
00:23:55,430 --> 00:23:54,480
affects very much

563
00:23:59,750 --> 00:23:55,440

the

564

00:24:02,710 --> 00:23:59,760

professionally and personally and having

565

00:24:05,830 --> 00:24:02,720

had that experience of being a capcom

566

00:24:07,909 --> 00:24:05,840

sitting on the mcc side of the team

567

00:24:10,310 --> 00:24:07,919

has prepared me for interacting with

568

00:24:12,870 --> 00:24:10,320

them when i'm on orbit and being

569

00:24:14,070 --> 00:24:12,880

prepared for for the way that that

570

00:24:15,830 --> 00:24:14,080

operations

571

00:24:17,830 --> 00:24:15,840

are performed here on the ground in

572

00:24:19,750 --> 00:24:17,840

order to help us do the job we need to

573

00:24:21,750 --> 00:24:19,760

do in orbit so i think i've learned a

574

00:24:24,950 --> 00:24:21,760

lot of patience i've learned a lot of

575

00:24:25,669 --> 00:24:24,960

background information about the

576

00:24:32,070 --> 00:24:25,679

the

577

00:24:33,190 --> 00:24:32,080

so i hope that answers your question

578

00:24:38,710 --> 00:24:33,200

thank you

579

00:24:42,070 --> 00:24:38,720

alexander and mikhail

580

00:24:44,630 --> 00:24:42,080

it is a good thing that you're going to

581

00:24:46,549 --> 00:24:44,640

station you'll have a lot of good work

582

00:24:48,549 --> 00:24:46,559

but what sort of things are you looking

583

00:24:50,310 --> 00:24:48,559

forward to that relate to art and

584

00:24:53,190 --> 00:24:50,320

culture that you can share your

585

00:25:30,149 --> 00:24:53,200

experience with family and friends and

586

00:25:34,230 --> 00:25:32,470

well if your question relates to the

587

00:25:36,390 --> 00:25:34,240

educational program

588

00:25:37,990 --> 00:25:36,400

then we do have a program

589

00:25:40,870 --> 00:25:38,000

where we communicate with school

590

00:25:43,669 --> 00:25:40,880

children with students on the ground

591

00:25:51,430 --> 00:25:43,679

using hem radio and our regular nominal

592

00:26:23,830 --> 00:25:52,230

okay

593

00:26:27,430 --> 00:26:25,750

in terms of the general experience

594

00:26:30,390 --> 00:26:27,440

michael and i have been in training for

595

00:26:31,510 --> 00:26:30,400

a long time actually we've been um going

596

00:26:33,510 --> 00:26:31,520

towards

597

00:26:35,430 --> 00:26:33,520

our goal for the past 12 and a half

598

00:26:37,830 --> 00:26:35,440

years and hopefully there isn't much

599

00:26:40,950 --> 00:26:37,840

time left for us to continue striving

600

00:26:43,269 --> 00:26:40,960

for our goal to be finally in space so

601
00:26:45,350 --> 00:26:43,279
that time allowed us

602
00:26:47,269 --> 00:26:45,360
to accumulate a lot of interesting

603
00:26:49,590 --> 00:26:47,279
experience and in terms of education as

604
00:26:51,669 --> 00:26:49,600
well as art and culture we'll be happy

605
00:26:55,029 --> 00:26:51,679
to share this experience with

606
00:26:59,190 --> 00:26:57,669
did mikhail did you want to respond

607
00:27:01,750 --> 00:26:59,200
no

608
00:27:03,590 --> 00:27:01,760
okay our next question robert

609
00:27:06,390 --> 00:27:03,600
hi robert perlman with clickspace.com

610
00:27:08,470 --> 00:27:06,400
again sort of working off of that um

611
00:27:11,830 --> 00:27:08,480
given that it has been 12 years

612
00:27:14,149 --> 00:27:11,840
to get to space um what are

613
00:27:17,029 --> 00:27:14,159

what are both

614

00:27:19,430 --> 00:27:17,039

both of you looking forward to

615

00:27:22,630 --> 00:27:19,440

the most during the stay and then for

616

00:27:24,789 --> 00:27:22,640

all of you with such a busy

617

00:27:26,070 --> 00:27:24,799

increment what presents the largest

618

00:27:28,070 --> 00:27:26,080

challenge

619

00:27:28,870 --> 00:27:28,080

amongst all the activities that you

620

00:27:30,230 --> 00:27:28,880

think

621

00:28:01,430 --> 00:27:30,240

will present the biggest challenge at

622

00:28:06,310 --> 00:28:03,430

well as uh tracy pointed out very

623

00:28:08,230 --> 00:28:06,320

correctly the our flight schedule um our

624

00:28:10,470 --> 00:28:08,240

timeline on board will not be as busy as

625

00:28:13,269 --> 00:28:10,480

the one for the shuttle crew

626

00:28:15,430 --> 00:28:13,279

it will be more routine work but even so

627

00:28:18,230 --> 00:28:15,440

when you look at it when i was listening

628

00:28:20,389 --> 00:28:18,240

to tracy's opening statement it was very

629

00:28:21,990 --> 00:28:20,399

nice to hear a very concise description

630

00:28:23,909 --> 00:28:22,000

of all the activities and all the events

631

00:28:25,110 --> 00:28:23,919

that we will have on board while we're

632

00:28:51,909 --> 00:28:25,120

there

633

00:28:55,830 --> 00:28:53,590

so throughout the course of our training

634

00:28:57,190 --> 00:28:55,840

we do um realize that there'll be a lot

635

00:28:58,950 --> 00:28:57,200

of work

636

00:29:00,389 --> 00:28:58,960

that we'll need to do on board and a lot

637

00:29:02,549 --> 00:29:00,399

of responsibilities that we'll have to

638

00:29:04,389 --> 00:29:02,559

fulfill but i think during the final

639

00:29:05,510 --> 00:29:04,399

stages of preparation it really brings

640

00:29:07,430 --> 00:29:05,520

it home and

641

00:29:09,110 --> 00:29:07,440

even this press conference makes us

642

00:29:10,950 --> 00:29:09,120

think about all the things that we will

643

00:29:13,350 --> 00:29:10,960

have to do and all the great

644

00:29:15,190 --> 00:29:13,360

responsibility that is placed on us so

645

00:29:18,470 --> 00:29:15,200

even though our schedule on board will

646

00:29:23,830 --> 00:29:18,480

be very busy uh we'll do our best to um

647

00:29:27,430 --> 00:29:25,750

came over again with nbc one of the

648

00:29:28,549 --> 00:29:27,440

special features of the station that's

649

00:29:35,269 --> 00:29:28,559

new

650

00:29:37,590 --> 00:29:35,279

how do you plan on

651

00:29:39,350 --> 00:29:37,600

utilizing that extraordinary

652

00:29:41,110 --> 00:29:39,360

window into the universe how do you plan

653

00:29:43,990 --> 00:29:41,120

on doing what advice have people given

654

00:29:45,830 --> 00:29:44,000

you of things you can't miss what do you

655

00:29:47,110 --> 00:29:45,840

have to watch and how long do you think

656

00:29:50,789 --> 00:29:47,120

you're going to be sitting there looking

657

00:29:54,470 --> 00:29:52,310

well

658

00:29:57,350 --> 00:29:54,480

i can tell you just from my

659

00:29:59,269 --> 00:29:57,360

first experience in space that uh

660

00:30:00,710 --> 00:29:59,279

it will be difficult to pry me out of

661

00:30:01,510 --> 00:30:00,720

that window

662

00:30:12,310 --> 00:30:01,520

i

663

00:30:14,310 --> 00:30:12,320

not have

664

00:30:17,190 --> 00:30:14,320

otherwise in the station if it weren't

665

00:30:18,470 --> 00:30:17,200

for this cupola and that goes

666

00:30:20,070 --> 00:30:18,480

a long way

667

00:30:21,669 --> 00:30:20,080

toward

668

00:30:24,470 --> 00:30:21,679

the

669

00:30:26,549 --> 00:30:24,480

crew morale as well as um

670

00:30:29,590 --> 00:30:26,559

you know affirmation of why we're doing

671

00:30:31,590 --> 00:30:29,600

this and for that reason i wish everyone

672

00:30:33,510 --> 00:30:31,600

could be looking out that cupola

673

00:30:34,549 --> 00:30:33,520

because what i realized

674

00:30:36,310 --> 00:30:34,559

as a

675

00:30:38,310 --> 00:30:36,320

crew member on the shuttle and staring

676
00:30:39,909 --> 00:30:38,320
out that window and using my free time

677
00:30:42,630 --> 00:30:39,919
to do just that

678
00:30:44,310 --> 00:30:42,640
that you you get such an appreciation

679
00:30:46,870 --> 00:30:44,320
for

680
00:30:48,870 --> 00:30:46,880
not just what you're doing but just the

681
00:30:50,710 --> 00:30:48,880
delicate

682
00:30:53,269 --> 00:30:50,720
planet that we live on and and i don't

683
00:30:55,669 --> 00:30:53,279
think there's a single person that could

684
00:30:57,269 --> 00:30:55,679
look out that window and see that that

685
00:31:00,149 --> 00:30:57,279
spectacular

686
00:31:01,669 --> 00:31:00,159
unique view of our planet and ever feel

687
00:31:03,990 --> 00:31:01,679
the same and

688
00:31:05,750 --> 00:31:04,000

it makes you feel very protective of the

689

00:31:07,909 --> 00:31:05,760

environment and the opportunity that we

690

00:31:10,230 --> 00:31:07,919

have to observe it from that vantage

691

00:31:13,029 --> 00:31:10,240

point and i can only imagine that with a

692

00:31:14,950 --> 00:31:13,039

cupola window

693

00:31:16,789 --> 00:31:14,960

how much more enhanced

694

00:31:19,029 --> 00:31:16,799

that will be especially with the

695

00:31:21,350 --> 00:31:19,039

increasing size of our space station and

696

00:31:23,350 --> 00:31:21,360

the crew that inhabit it it will be

697

00:31:24,870 --> 00:31:23,360

tremendous but what that does for

698

00:31:27,590 --> 00:31:24,880

everybody

699

00:31:29,990 --> 00:31:27,600

is opens up crew observation i mean we

700

00:31:32,310 --> 00:31:30,000

we have windows about the the size of a

701
00:31:35,190 --> 00:31:32,320
large plate now and imagine what we can

702
00:31:37,590 --> 00:31:35,200
do with several different angles that we

703
00:31:39,669 --> 00:31:37,600
can look at the earth not to mention how

704
00:31:41,830 --> 00:31:39,679
complex and large our space station is

705
00:31:44,149 --> 00:31:41,840
becoming and how difficult now our

706
00:31:46,389 --> 00:31:44,159
robotic tasks and our evas will become

707
00:31:48,950 --> 00:31:46,399
and that having that window will help

708
00:31:50,149 --> 00:31:48,960
aid in all of those tasks especially

709
00:31:51,830 --> 00:31:50,159
those that are going to be on the port

710
00:31:52,789 --> 00:31:51,840
side of the space station

711
00:31:56,950 --> 00:31:52,799
it's

712
00:31:58,470 --> 00:31:56,960
asset to us

713
00:32:01,110 --> 00:31:58,480

both from

714

00:32:05,269 --> 00:32:01,120

an emotional state a mental well-being

715

00:32:06,950 --> 00:32:05,279

as well as from a practical and

716

00:32:08,149 --> 00:32:06,960

operational sense

717

00:32:11,190 --> 00:32:08,159

and

718

00:32:12,870 --> 00:32:11,200

mission

719

00:32:14,389 --> 00:32:12,880

said to me once i was

720

00:32:16,310 --> 00:32:14,399

taking a few minutes to stare out the

721

00:32:18,070 --> 00:32:16,320

window and not really sure if that's

722

00:32:20,630 --> 00:32:18,080

what i should be doing if i was stealing

723

00:32:22,149 --> 00:32:20,640

minutes away from the precious timeline

724

00:32:23,830 --> 00:32:22,159

and he caught me looking out the window

725

00:32:25,990 --> 00:32:23,840

and he said everybody else right now is

726

00:32:27,269 --> 00:32:26,000

doing email and sending messages and

727

00:32:28,389 --> 00:32:27,279

taking pictures and you're the only

728

00:32:30,789 --> 00:32:28,399

smart person

729

00:32:33,190 --> 00:32:30,799

got their nose stuck in the window which

730

00:32:34,710 --> 00:32:33,200

affirmed for me that uh that

731

00:32:37,269 --> 00:32:34,720

you know you you could

732

00:32:39,190 --> 00:32:37,279

spend all these years training and all

733

00:32:42,710 --> 00:32:39,200

these years sacrificing

734

00:32:45,509 --> 00:32:42,720

the time away from your family and and

735

00:32:47,350 --> 00:32:45,519

for the cause of improving this

736

00:32:49,269 --> 00:32:47,360

space program and carrying on this space

737

00:32:52,549 --> 00:32:49,279

station program without taking that

738

00:32:55,029 --> 00:32:52,559

moment for yourself uh to really um

739

00:33:00,870 --> 00:32:55,039

remind you that the sacrifices were all

740

00:33:06,549 --> 00:33:02,389

no doubt

741

00:33:09,430 --> 00:33:06,559

they they probably have a much different

742

00:33:14,070 --> 00:33:09,440

perspective of this being a

743

00:33:14,080 --> 00:33:17,509

what are you going to look at

744

00:33:17,519 --> 00:33:21,830

question for me

745

00:33:21,840 --> 00:33:33,269

sorry

746

00:33:33,279 --> 00:33:42,630

um

747

00:33:46,789 --> 00:33:45,269

that this is one of the most remarkable

748

00:33:49,029 --> 00:33:46,799

elements on board at the station this

749

00:33:58,950 --> 00:33:49,039

will be our sort of window into the

750

00:34:03,669 --> 00:34:01,110

of course its primary

751
00:34:22,149 --> 00:34:03,679
um purpose is to

752
00:34:25,589 --> 00:34:23,750
in my head i'm trying to imagine what it

753
00:34:27,909 --> 00:34:25,599
will be like looking

754
00:34:30,389 --> 00:34:27,919
out the cupola window and it really for

755
00:34:42,230 --> 00:34:30,399
me it's hard to wrap my mind around it

756
00:34:46,710 --> 00:34:44,230
this is also an excellent tool for earth

757
00:34:55,750 --> 00:34:46,720
observations operations for photo

758
00:35:02,790 --> 00:34:58,310
uh no not not yet

759
00:35:06,230 --> 00:35:04,950
robert pearl with collect space uh sort

760
00:35:08,630 --> 00:35:06,240
of jim just stole my question about

761
00:35:11,270 --> 00:35:08,640
blogging but uh sort of work next to

762
00:35:14,470 --> 00:35:11,280
that um are any of you gonna be tweeting

763
00:35:17,270 --> 00:35:14,480

um and you will have uh if i guess if tj

764

00:35:19,990 --> 00:35:17,280

gets it up and running live internet

765

00:35:20,870 --> 00:35:20,000

how do you see that affecting your

766

00:35:22,310 --> 00:35:20,880

ability

767

00:35:25,430 --> 00:35:22,320

affecting your interaction with the

768

00:35:28,230 --> 00:35:26,390

well

769

00:35:29,750 --> 00:35:28,240

as far as tweeting goes

770

00:35:32,150 --> 00:35:29,760

i don't tweet now so i don't think i'm

771

00:35:33,589 --> 00:35:32,160

going to tweet up in space

772

00:35:36,069 --> 00:35:33,599

i have different outlets for

773

00:35:38,230 --> 00:35:36,079

communicating to folks and

774

00:35:40,630 --> 00:35:38,240

what i look forward to the most

775

00:35:42,550 --> 00:35:40,640

it's not electronic by any means but

776

00:35:43,829 --> 00:35:42,560

sort of answers both your questions that

777

00:35:45,589 --> 00:35:43,839

of the cupola of what i'm going to do

778

00:35:47,030 --> 00:35:45,599

and how i'm going to communicate but

779

00:35:50,470 --> 00:35:47,040

i've

780

00:35:52,230 --> 00:35:50,480

sent up for myself a set of a sketch pad

781

00:35:54,470 --> 00:35:52,240

and a set of

782

00:35:57,430 --> 00:35:54,480

colored watercolor watercolor pencils

783

00:35:59,670 --> 00:35:57,440

that i hope to be able to recreate the

784

00:36:01,589 --> 00:35:59,680

scenes that are still so

785

00:36:02,710 --> 00:36:01,599

blazing in my mind of

786

00:36:04,790 --> 00:36:02,720

of our

787

00:36:06,630 --> 00:36:04,800

earth as well as

788

00:36:09,589 --> 00:36:06,640

the horizon with all the stars and so

789

00:36:12,150 --> 00:36:09,599

that'll be my form of tweeting uh and

790

00:36:13,270 --> 00:36:12,160

keeping uh in touch with uh sharing my

791

00:36:17,510 --> 00:36:13,280

experience

792

00:36:19,990 --> 00:36:17,520

uh with those uh back here at home

793

00:36:21,670 --> 00:36:20,000

but as far as the the live internet uh

794

00:36:23,430 --> 00:36:21,680

and and how that will affect our

795

00:36:25,829 --> 00:36:23,440

interactions with the ground

796

00:36:27,349 --> 00:36:25,839

uh i think remains to be seen again stay

797

00:36:30,390 --> 00:36:27,359

tuned and ask me that question

798

00:36:32,710 --> 00:36:30,400

mid-stream in our in our increment but

799

00:36:36,310 --> 00:36:32,720

i i i don't think anyone anyone could

800

00:36:37,990 --> 00:36:36,320

help uh you know kind of um being

801
00:36:40,550 --> 00:36:38,000
a little self-conscious so when you know

802
00:36:42,230 --> 00:36:40,560
you float in front of a camera that is

803
00:36:44,710 --> 00:36:42,240
streaming live video down to the

804
00:36:46,630 --> 00:36:44,720
internet if that was placed in your home

805
00:36:49,190 --> 00:36:46,640
you'd certainly

806
00:36:50,790 --> 00:36:49,200
probably you know

807
00:36:52,230 --> 00:36:50,800
straighten up your shoulders before you

808
00:36:53,510 --> 00:36:52,240
got in front of it

809
00:36:55,510 --> 00:36:53,520
and

810
00:36:57,349 --> 00:36:55,520
but i you know at the same time i think

811
00:37:00,470 --> 00:36:57,359
it will be uh it'll take some time to

812
00:37:02,230 --> 00:37:00,480
adjust to it at first but i think

813
00:37:05,829 --> 00:37:02,240

the the best part about that is that it

814

00:37:08,230 --> 00:37:05,839

is going to uh open up this uh

815

00:37:10,870 --> 00:37:08,240

spectacular uh

816

00:37:12,790 --> 00:37:10,880

program that we have to to those who

817

00:37:14,470 --> 00:37:12,800

otherwise wouldn't

818

00:37:17,109 --> 00:37:14,480

care to learn much about it it's just

819

00:37:18,310 --> 00:37:17,119

another avenue to to learn to to to

820

00:37:20,550 --> 00:37:18,320

teach the

821

00:37:22,390 --> 00:37:20,560

the public basically about their space

822

00:37:25,030 --> 00:37:22,400

station and their space program and

823

00:37:28,150 --> 00:37:25,040

invite them inside

824

00:37:30,630 --> 00:37:28,160

so um i i i'm looking forward to i'm

825

00:37:32,150 --> 00:37:30,640

looking forward to getting used to it uh

826

00:37:34,630 --> 00:37:32,160

since um

827

00:37:36,790 --> 00:37:34,640

i've never had a live video streaming in

828

00:37:38,870 --> 00:37:36,800

my home before

829

00:37:41,030 --> 00:37:38,880

but i sure hope that it has a positive

830

00:37:41,910 --> 00:37:41,040

outcome

831

00:37:43,510 --> 00:37:41,920

okay

832

00:37:46,710 --> 00:37:43,520

i believe we have time for one last

833

00:37:50,870 --> 00:37:49,190

jill told bay area houston magazine it's

834

00:37:52,870 --> 00:37:50,880

a follow-up question for each of you

835

00:37:55,109 --> 00:37:52,880

similar to what we've talked about since

836

00:37:57,109 --> 00:37:55,119

you're you'll be on station for five or

837

00:37:58,069 --> 00:37:57,119

six months and have time to look out the

838

00:38:00,950 --> 00:37:58,079

window

839

00:38:03,190 --> 00:38:00,960

is there any specific part of earth or

840

00:38:05,670 --> 00:38:03,200

of the sky that you all would like to

841

00:38:08,790 --> 00:38:05,680

observe over time or just keep your eye

842

00:38:11,910 --> 00:38:10,069

i'll

843

00:38:52,390 --> 00:38:11,920

pass that question on to my

844

00:38:56,310 --> 00:38:53,990

well first of all i expect that the view

845

00:38:59,109 --> 00:38:56,320

will be so um

846

00:39:01,589 --> 00:38:59,119

tremendous so outstanding that i really

847

00:39:03,270 --> 00:39:01,599

don't think that there will be a spot in

848

00:39:05,430 --> 00:39:03,280

the sky that will be better than others

849

00:39:07,190 --> 00:39:05,440

but there are some points of interest on

850

00:39:09,109 --> 00:39:07,200

earth that i would like to

851

00:39:09,990 --> 00:39:09,119

see hopefully and one of them is of

852

00:39:12,710 --> 00:39:10,000

course

853

00:39:15,190 --> 00:39:12,720

the place where i'm from my hometown

854

00:39:17,190 --> 00:39:15,200

the amount of kilimanjaro also i climbed

855

00:39:19,190 --> 00:39:17,200

that mount um a few years ago and so

856

00:39:20,870 --> 00:39:19,200

that would be interesting machu picchu

857

00:39:21,750 --> 00:39:20,880

than ancient city that is something that

858

00:39:23,430 --> 00:39:21,760

i've

859

00:39:26,710 --> 00:39:23,440

seen in real life so i would like to see

860

00:39:26,720 --> 00:39:34,630

no remember

861

00:39:34,640 --> 00:39:56,630

um

862

00:39:59,829 --> 00:39:58,230

again i expect that the view from space

863

00:40:02,630 --> 00:39:59,839

will be very beautiful

864

00:40:05,109 --> 00:40:02,640

um i attended an exhibition of a russian

865

00:40:08,069 --> 00:40:05,119

cosmonaut once and his paintings were

866

00:40:10,470 --> 00:40:08,079

very beautiful and he told me that

867

00:40:13,750 --> 00:40:10,480

there are still places on earth that can

868

00:40:17,030 --> 00:40:13,760

you can only see from space that are

869

00:40:19,349 --> 00:40:17,040

this day right now modern day um

870

00:40:20,790 --> 00:40:19,359

cities and among modern day locations

871

00:40:22,550 --> 00:40:20,800

and that is something that always stays

872

00:40:30,710 --> 00:40:22,560

with you and brings up an artist within

873

00:40:33,990 --> 00:40:32,150

you know i

874

00:40:35,510 --> 00:40:34,000

have to agree with both my crewmates

875

00:40:38,150 --> 00:40:35,520

that

876

00:40:40,710 --> 00:40:38,160

you can just pick any any spot on the

877

00:40:44,069 --> 00:40:40,720

planet as well as in the sky and it's

878

00:40:46,790 --> 00:40:44,079

just mesmerizing to say the very least

879

00:40:48,870 --> 00:40:46,800

but um as i've described before

880

00:40:52,630 --> 00:40:48,880

one of the most uh unexpected

881

00:40:55,190 --> 00:40:52,640

discoveries and i say i say that

882

00:40:56,790 --> 00:40:55,200

somewhat with a smirk because none of my

883

00:40:59,190 --> 00:40:56,800

colleagues i was so surprised had told

884

00:41:01,589 --> 00:40:59,200

me before i launched on the shuttle to

885

00:41:03,109 --> 00:41:01,599

expect this i'd been told that when you

886

00:41:04,790 --> 00:41:03,119

get above the atmosphere of course the

887

00:41:08,630 --> 00:41:04,800

stars aren't going to blink like they do

888

00:41:10,950 --> 00:41:08,640

down here but nobody prepared me for

889

00:41:12,470 --> 00:41:10,960

seeing the stars in three dimensions

890

00:41:13,510 --> 00:41:12,480

which you don't have the pleasure of

891

00:41:14,790 --> 00:41:13,520

down here

892

00:41:16,870 --> 00:41:14,800

but when you're certainly above the

893

00:41:18,870 --> 00:41:16,880

atmosphere you actually see the distance

894

00:41:21,270 --> 00:41:18,880

between the stars you can see that stars

895

00:41:23,109 --> 00:41:21,280

are actually closer to you than they are

896

00:41:25,349 --> 00:41:23,119

than others are and i wasn't quite

897

00:41:27,990 --> 00:41:25,359

prepared for that and i think that

898

00:41:30,790 --> 00:41:28,000

nearly hypnotized me uh in that window

899

00:41:32,710 --> 00:41:30,800

and i can't wait to get back to that and

900

00:41:34,390 --> 00:41:32,720

refresh my memory so that when i come

901
00:41:37,270 --> 00:41:34,400
back i can

902
00:41:39,670 --> 00:41:37,280
tell that a little bit more freshness to

903
00:41:41,750 --> 00:41:39,680
to all those that i share my experience

904
00:41:43,030 --> 00:41:41,760
with so i'm looking forward to that for

905
00:41:44,630 --> 00:41:43,040
sure

906
00:41:46,390 --> 00:41:44,640
thank you well that's a great note to

907
00:41:47,750 --> 00:41:46,400
end it on that will wrap up our briefing

908
00:41:49,190 --> 00:41:47,760
we will have a photo opportunity

909
00:41:50,390 --> 00:41:49,200
immediately after the conclusion of that