



1
00:03:00,910 --> 00:02:44,580
foreign

2
00:03:03,890 --> 00:03:00,920
[Music]

3
00:03:16,430 --> 00:03:03,900
thank you

4
00:03:16,440 --> 00:03:19,980
[Applause]

5
00:03:50,530 --> 00:03:36,450
[Music]

6
00:04:24,710 --> 00:03:51,540
thank you

7
00:04:25,790 --> 00:04:24,720
[Music]

8
00:04:58,670 --> 00:04:25,800
thank you

9
00:05:00,130 --> 00:04:58,680
[Music]

10
00:05:17,050 --> 00:05:00,140
foreign

11
00:05:19,440 --> 00:05:17,060
[Music]

12
00:05:31,980 --> 00:05:19,450
thank you

13
00:05:31,990 --> 00:05:35,530

[Applause]

14

00:06:06,010 --> 00:05:52,000

[Music]

15

00:06:24,230 --> 00:06:07,090

thank you

16

00:06:25,870 --> 00:06:24,240

[Music]

17

00:06:58,610 --> 00:06:25,880

foreign

18

00:06:58,620 --> 00:07:01,350

thank you

19

00:07:47,520 --> 00:07:40,380

[Music]

20

00:07:47,530 --> 00:07:51,080

[Applause]

21

00:07:51,090 --> 00:07:55,510

[Music]

22

00:07:55,520 --> 00:08:06,430

[Applause]

23

00:08:14,330 --> 00:08:07,550

thank you

24

00:08:14,340 --> 00:08:22,640

foreign

25

00:08:22,650 --> 00:08:45,790

[Music]

26
00:08:55,410 --> 00:08:47,750
thank you

27
00:08:55,420 --> 00:09:27,050
[Music]

28
00:09:55,930 --> 00:09:29,890
foreign

29
00:09:55,940 --> 00:10:03,080
[Music]

30
00:10:03,090 --> 00:10:13,810
[Applause]

31
00:10:13,820 --> 00:10:23,090
thank you

32
00:10:23,100 --> 00:10:40,810
[Music]

33
00:10:40,820 --> 00:10:45,090
thank you

34
00:10:45,100 --> 00:11:25,690
[Music]

35
00:11:25,700 --> 00:11:28,990
thank you

36
00:11:29,000 --> 00:11:44,829
[Music]

37
00:12:11,480 --> 00:11:46,780
thank you

38
00:12:11,490 --> 00:12:18,630

[Music]

39

00:12:18,640 --> 00:12:38,650

[Applause]

40

00:12:38,660 --> 00:12:45,350

[Music]

41

00:12:45,360 --> 00:13:00,620

foreign

42

00:13:00,630 --> 00:13:15,470

[Music]

43

00:13:27,069 --> 00:13:16,930

these are open

44

00:13:27,079 --> 00:13:45,560

clears the tower

45

00:13:57,949 --> 00:13:52,320

[Music]

46

00:13:57,959 --> 00:14:08,070

foreign

47

00:14:08,080 --> 00:15:06,290

[Applause]

48

00:15:06,300 --> 00:16:43,790

foreign

49

00:16:43,800 --> 00:17:20,049

[Music]

50

00:17:20,059 --> 00:17:28,850

thank you

51

00:17:28,860 --> 00:17:59,330

sir

52

00:17:59,340 --> 00:18:30,169

is

53

00:18:30,179 --> 00:18:58,789

it

54

00:18:58,799 --> 00:19:08,090

you guys ready

55

00:19:28,370 --> 00:19:10,190

thank you

56

00:19:39,950 --> 00:19:29,870

there's somebody to give me the go or

57

00:19:44,750 --> 00:19:42,049

okay good afternoon

58

00:19:47,270 --> 00:19:44,760

space exploration whether it's to the

59

00:19:50,870 --> 00:19:47,280

International Space Station or return to

60

00:19:53,450 --> 00:19:50,880

the Moon onto Mars and Beyond starts

61

00:19:55,789 --> 00:19:53,460

right here at the world's preeminent

62

00:19:56,750 --> 00:19:55,799

Spaceport the John F Kennedy Space

63

00:19:58,850 --> 00:19:56,760

Center

64

00:20:01,130 --> 00:19:58,860

so it's fitting to open the next chapter

65

00:20:04,669 --> 00:20:01,140

in our storied history of human space

66

00:20:08,090 --> 00:20:04,679

flight as we welcome the crew of NASA's

67

00:20:10,370 --> 00:20:08,100

SpaceX crew 6 mission NASA Commander

68

00:20:13,270 --> 00:20:10,380

Steve Bowen

69

00:20:16,669 --> 00:20:13,280

NASA pilot Woody Holberg

70

00:20:18,529 --> 00:20:16,679

UAE UAE Mission specialist sultan

71

00:20:21,650 --> 00:20:18,539

al-niadi

72

00:20:24,230 --> 00:20:21,660

and Ross Cosmos Mission specialist Andre

73

00:20:25,850 --> 00:20:24,240

fedjev

74

00:20:28,130 --> 00:20:25,860

when the flight crew arrives at the

75

00:20:31,130 --> 00:20:28,140

Kennedy Space Center it's not only it

76
00:20:33,710 --> 00:20:31,140
not only represents a major milestone in

77
00:20:36,169 --> 00:20:33,720
our schedule signifying launches less

78
00:20:38,870 --> 00:20:36,179
than a week away but seeing these guys

79
00:20:42,230 --> 00:20:38,880
here is is just such a very special

80
00:20:45,470 --> 00:20:42,240
moment for all of us who work here

81
00:20:47,390 --> 00:20:45,480
it's why we work here right

82
00:20:49,789 --> 00:20:47,400
so the next few days here at the Kennedy

83
00:20:52,610 --> 00:20:49,799
Space Center will be a busy time as we

84
00:20:55,070 --> 00:20:52,620
prepare to launch Cruise 6. even now

85
00:20:57,350 --> 00:20:55,080
teams are gathered at the agency flight

86
00:20:59,450 --> 00:20:57,360
Readiness review to ensure we have

87
00:21:01,610 --> 00:20:59,460
everything in order for a safe and

88
00:21:03,950 --> 00:21:01,620

successful mission

89

00:21:05,870 --> 00:21:03,960

it definitely takes a team to make this

90

00:21:07,850 --> 00:21:05,880

happen and this mission is a great

91

00:21:10,909 --> 00:21:07,860

example of our successful partnership

92

00:21:12,650 --> 00:21:10,919

between government industry and our

93

00:21:15,289 --> 00:21:12,660

International partners

94

00:21:17,750 --> 00:21:15,299

and NASA's shining illustration of all

95

00:21:19,370 --> 00:21:17,760

of this is our commercial crew program

96

00:21:20,990 --> 00:21:19,380

so I'd like to introduce someone who's

97

00:21:23,390 --> 00:21:21,000

been with the program since its

98

00:21:25,970 --> 00:21:23,400

beginning for over 10 years the deputy

99

00:21:27,350 --> 00:21:25,980

program manager of the commercial crew

100

00:21:30,590 --> 00:21:27,360

program here at Kennedy Space Center

101
00:21:37,789 --> 00:21:30,600
please join me in welcoming Dana

102
00:21:43,130 --> 00:21:40,669
welcome and thank you for joining us

103
00:21:45,110 --> 00:21:43,140
here today as Kelvin said I'm Dana

104
00:21:47,450 --> 00:21:45,120
Hutcherson I'm the deputy program

105
00:21:48,529 --> 00:21:47,460
manager of NASA's commercial crew

106
00:21:50,750 --> 00:21:48,539
program

107
00:21:53,230 --> 00:21:50,760
it's amazing to realize that we are now

108
00:21:56,029 --> 00:21:53,240
on our sixth rotational Mission and

109
00:21:57,649 --> 00:21:56,039
preparing for the seventh launch sending

110
00:22:01,190 --> 00:21:57,659
astronauts to the International Space

111
00:22:03,169 --> 00:22:01,200
Station from U.S soil it is an honor to

112
00:22:06,710 --> 00:22:03,179
represent NASA's commercial crew program

113
00:22:08,870 --> 00:22:06,720

in welcoming this International crew as

114

00:22:10,549 --> 00:22:08,880

I share in their anticipation and

115

00:22:13,789 --> 00:22:10,559

executing this mission for which they

116

00:22:15,710 --> 00:22:13,799

have been preparing for so diligently

117

00:22:17,510 --> 00:22:15,720

commercial crew is succeeding and

118

00:22:20,210 --> 00:22:17,520

providing safe reliable and

119

00:22:23,149 --> 00:22:20,220

cost-effective transportation to our low

120

00:22:26,470 --> 00:22:23,159

earth orbit This Crew will fly on Dragon

121

00:22:29,210 --> 00:22:26,480

Endeavor spacecraft provided by SpaceX

122

00:22:31,370 --> 00:22:29,220

they will also see the growth in the

123

00:22:33,649 --> 00:22:31,380

commercial crew program when they will

124

00:22:36,049 --> 00:22:33,659

be at the space station to greet another

125

00:22:39,710 --> 00:22:36,059

team of astronauts aboard Boeing

126

00:22:41,930 --> 00:22:39,720

Starliner for Boeing's crude flight test

127

00:22:44,510 --> 00:22:41,940

the success of these Partnerships with

128

00:22:47,090 --> 00:22:44,520

commercial companies are allowing NASA

129

00:22:50,090 --> 00:22:47,100

to focus resources on exploration and

130

00:22:52,970 --> 00:22:50,100

research this Innovation expands NASA's

131

00:22:54,649 --> 00:22:52,980

ability to explore our universe and

132

00:22:57,890 --> 00:22:54,659

Inspire the world

133

00:23:00,230 --> 00:22:57,900

now I invite Salim Amari director

134

00:23:07,210 --> 00:23:00,240

General Muhammad Ben Rasheed Space

135

00:23:12,049 --> 00:23:09,770

hello good afternoon everybody it's an

136

00:23:13,549 --> 00:23:12,059

honor and pleasure to be here my name is

137

00:23:16,010 --> 00:23:13,559

seren Murray I'm the director general of

138

00:23:17,990 --> 00:23:16,020

the Mohamed borasha Space Center first

139

00:23:19,610 --> 00:23:18,000

of all I'd like to welcome the crew uh

140

00:23:21,950 --> 00:23:19,620

very good to see you here I think I'm

141

00:23:24,289 --> 00:23:21,960

more excited than you I don't know okay

142

00:23:25,850 --> 00:23:24,299

so well you must be more excited than me

143

00:23:27,590 --> 00:23:25,860

but we're both equally excited I think

144

00:23:30,049 --> 00:23:27,600

and it's really great to see you here

145

00:23:32,750 --> 00:23:30,059

and to have one of our own Sultan who is

146

00:23:34,549 --> 00:23:32,760

a person that I've known for at least

147

00:23:36,590 --> 00:23:34,559

the last six years I know he's very

148

00:23:38,270 --> 00:23:36,600

dedicated I'm sure all of you are and

149

00:23:40,010 --> 00:23:38,280

from what we've heard and what we've

150

00:23:41,390 --> 00:23:40,020

seen this is going to be one hell of a

151
00:23:43,970 --> 00:23:41,400
mission so good luck on that and we wish

152
00:23:46,669 --> 00:23:43,980
you all the best from a UA perspective

153
00:23:49,310 --> 00:23:46,679
this is honestly a very historic mission

154
00:23:52,730 --> 00:23:49,320
for us so our program is quite new we

155
00:23:54,830 --> 00:23:52,740
started in 2017 and for us to be the

156
00:23:57,830 --> 00:23:54,840
first non-iss partner to go on a long

157
00:23:59,930 --> 00:23:57,840
duration mission for us to be uh to to

158
00:24:01,490 --> 00:23:59,940
be the 10th or 11th country to go on a

159
00:24:03,529 --> 00:24:01,500
long duration mission that is not

160
00:24:05,330 --> 00:24:03,539
something that we take lightly we have a

161
00:24:07,370 --> 00:24:05,340
big team of over 100 people working

162
00:24:09,710 --> 00:24:07,380
behind the scenes to make sure that

163
00:24:11,630 --> 00:24:09,720

everything that the uae's part has to do

164

00:24:13,310 --> 00:24:11,640

with this mission is successful as well

165

00:24:15,350 --> 00:24:13,320

as what Sultan and the team have to do

166

00:24:17,810 --> 00:24:15,360

together to make overall this this

167

00:24:19,789 --> 00:24:17,820

Expedition success so for us we're very

168

00:24:22,310 --> 00:24:19,799

excited again it's a it's a historic

169

00:24:23,870 --> 00:24:22,320

Mission I believe we are ready I know

170

00:24:31,610 --> 00:24:23,880

the crew is ready and we wish you all

171

00:24:35,930 --> 00:24:33,409

now I know you didn't hear come here to

172

00:24:37,549 --> 00:24:35,940

listen to us let me start with the crew

173

00:24:40,490 --> 00:24:37,559

introduction

174

00:24:42,710 --> 00:24:40,500

so crew 6 Mission Commander Steve Bowen

175

00:24:45,409 --> 00:24:42,720

it's one of those rare individuals on

176
00:24:48,230 --> 00:24:45,419
the planet who has explored the deepest

177
00:24:51,169 --> 00:24:48,240
depths of the oceans the U.S Navy

178
00:24:53,990 --> 00:24:51,179
submarine officer and then escape the

179
00:24:56,750 --> 00:24:54,000
bounds of the earth atmosphere and lived

180
00:24:58,850 --> 00:24:56,760
in low earth orbit a veteran of three

181
00:25:00,409 --> 00:24:58,860
space shuttle missions who needs no

182
00:25:05,090 --> 00:25:00,419
further introduction

183
00:25:09,830 --> 00:25:07,070
good afternoon everybody I really uh

184
00:25:11,630 --> 00:25:09,840
it's incredibly exciting to be here this

185
00:25:13,909 --> 00:25:11,640
is really a huge milestone for the crew

186
00:25:16,250 --> 00:25:13,919
to come down here we've completed our

187
00:25:17,690 --> 00:25:16,260
training we have a few events before we

188
00:25:20,330 --> 00:25:17,700

have the opportunity to launch into

189

00:25:22,370 --> 00:25:20,340

space in the next week or so and really

190

00:25:24,110 --> 00:25:22,380

this is

191

00:25:25,669 --> 00:25:24,120

it's just incredibly exciting to be here

192

00:25:27,169 --> 00:25:25,679

I I think there's more of you here today

193

00:25:30,049 --> 00:25:27,179

than there was the last few shuttle

194

00:25:32,390 --> 00:25:30,059

launches I was on so uh it's incredible

195

00:25:34,010 --> 00:25:32,400

to see the excitement growing and uh to

196

00:25:36,110 --> 00:25:34,020

still be a part of all of this

197

00:25:37,490 --> 00:25:36,120

I've had the privilege over the past

198

00:25:40,549 --> 00:25:37,500

couple years of training with an

199

00:25:44,450 --> 00:25:40,559

incredible crew they are just the most

200

00:25:46,070 --> 00:25:44,460

amazing people and it's a

201
00:25:47,810 --> 00:25:46,080
it's just an incredible honor to be here

202
00:25:49,070 --> 00:25:47,820
and we're really looking forward to our

203
00:25:51,649 --> 00:25:49,080
mission it's going to be incredibly

204
00:25:54,409 --> 00:25:51,659
exciting and um

205
00:25:57,110 --> 00:25:54,419
I'm going to pass it on to Woody so he

206
00:25:58,549 --> 00:25:57,120
can introduce himself and

207
00:26:00,470 --> 00:25:58,559
go ahead Woody

208
00:26:02,210 --> 00:26:00,480
all right thanks Steve yeah as Steve

209
00:26:03,950 --> 00:26:02,220
said it's it's super exciting to be here

210
00:26:06,590 --> 00:26:03,960
when my class the turtles showed up at

211
00:26:08,630 --> 00:26:06,600
Nasa a little over five years ago that

212
00:26:10,549 --> 00:26:08,640
was three years before demo two so

213
00:26:11,990 --> 00:26:10,559

thinking about that you know it's

214

00:26:14,510 --> 00:26:12,000

amazing how far we've come in the

215

00:26:16,070 --> 00:26:14,520

commercial crew program we weren't

216

00:26:17,930 --> 00:26:16,080

launching from Florida when I showed up

217

00:26:19,490 --> 00:26:17,940

at Nasa and now here we are on a

218

00:26:21,590 --> 00:26:19,500

beautiful day arriving in Florida we

219

00:26:24,529 --> 00:26:21,600

just flew over our pad and it's just

220

00:26:27,350 --> 00:26:24,539

such an exciting special moment amazing

221

00:26:30,110 --> 00:26:27,360

crew we have an amazing team throughout

222

00:26:32,269 --> 00:26:30,120

NASA and our industry Partners

223

00:26:34,070 --> 00:26:32,279

supporting us and it's just a real honor

224

00:26:36,110 --> 00:26:34,080

to be part of this crew we know we have

225

00:26:39,409 --> 00:26:36,120

a lot of work ahead of us on the ISS and

226

00:26:44,529 --> 00:26:39,419

we are excited and ready to get to work

227

00:26:47,750 --> 00:26:46,190

again

228

00:26:50,890 --> 00:26:47,760

um it's it's a great honor to be here

229

00:26:53,090 --> 00:26:50,900

today uh it's actually

230

00:26:55,909 --> 00:26:53,100

a privilege

231

00:26:58,730 --> 00:26:55,919

um and as Solomon mentioned that this is

232

00:27:01,909 --> 00:26:58,740

going to be a second mission to the UAE

233

00:27:04,070 --> 00:27:01,919

but the first long duration and it's

234

00:27:06,169 --> 00:27:04,080

hard to believe that this is really

235

00:27:09,470 --> 00:27:06,179

happening and we only realize that when

236

00:27:12,529 --> 00:27:09,480

we fly by the the launch pad and we saw

237

00:27:16,669 --> 00:27:12,539

the preparation going it's it's it's

238

00:27:18,710 --> 00:27:16,679

becoming to to to be real so we can't

239

00:27:21,289 --> 00:27:18,720

thank enough everybody that helped and

240

00:27:24,710 --> 00:27:21,299

preparing us for this Mission we thank

241

00:27:27,649 --> 00:27:24,720

our families our trainers throughout the

242

00:27:30,830 --> 00:27:27,659

agencies and uh

243

00:27:35,210 --> 00:27:30,840

um I thank my my colleague my teams I

244

00:27:39,289 --> 00:27:35,220

think we have a great team I can't thank

245

00:27:41,210 --> 00:27:39,299

for uh I mean I can't ask for more of a

246

00:27:44,330 --> 00:27:41,220

team I think we are ready physically

247

00:27:46,610 --> 00:27:44,340

mentally and technically and and we

248

00:27:53,149 --> 00:27:46,620

can't wait to uh to launch the space and

249

00:27:53,159 --> 00:28:04,330

foreign

250

00:28:11,690 --> 00:28:08,630

and I would like to say a few words

251
00:28:11,700 --> 00:28:34,730
principles

252
00:28:41,330 --> 00:28:38,390
first for all of us for myself Woody and

253
00:28:44,570 --> 00:28:41,340
Sultan this is the first space flight

254
00:28:47,149 --> 00:28:44,580
and for Steve it is going to be the

255
00:29:06,169 --> 00:28:47,159
first long duration flight

256
00:29:12,890 --> 00:29:09,110
uh we have been training for months for

257
00:29:15,169 --> 00:29:12,900
uh days now and it's all behind us and

258
00:29:18,830 --> 00:29:15,179
uh we are ready to fly we're ready to go

259
00:29:21,169 --> 00:29:18,840
uh we just have to do it now and uh I

260
00:29:31,610 --> 00:29:21,179
would like to thank everyone and uh good

261
00:29:35,330 --> 00:29:33,470
thank you all again for being here thank

262
00:29:38,269 --> 00:29:35,340
you to crew six

263
00:29:40,610 --> 00:29:38,279

um I'm now going to start the media q a

264

00:29:43,310 --> 00:29:40,620

there's a microphone on this side

265

00:29:45,710 --> 00:29:43,320

um and if you guys will line up uh once

266

00:29:47,149 --> 00:29:45,720

you state your name and your affiliation

267

00:29:49,310 --> 00:29:47,159

you can then point out who you would

268

00:29:51,110 --> 00:29:49,320

like to answer your question I see

269

00:29:53,750 --> 00:29:51,120

someone already at the mic uh you could

270

00:29:57,230 --> 00:29:53,760

take it away uh thank you Marsha Dunn

271

00:29:59,450 --> 00:29:57,240

Associated Press for Dr aniadi as the

272

00:30:01,669 --> 00:29:59,460

first UAE astronaut who's going to spend

273

00:30:04,850 --> 00:30:01,679

so much time in space

274

00:30:08,330 --> 00:30:04,860

um what customers are Traditions from

275

00:30:11,330 --> 00:30:08,340

your Homeland do you expect to observe

276

00:30:13,190 --> 00:30:11,340

in orbit and any special things from

277

00:30:15,889 --> 00:30:13,200

your country that you're taking thank

278

00:30:23,330 --> 00:30:20,029

okay it's just yet to be announced or

279

00:30:26,450 --> 00:30:23,340

maybe shown I can't play all my cards at

280

00:30:29,750 --> 00:30:26,460

one time but definitely we have a lot of

281

00:30:31,549 --> 00:30:29,760

uh stuff going on I want to share uh

282

00:30:33,710 --> 00:30:31,559

probably some of the immorality food

283

00:30:38,330 --> 00:30:33,720

that we have on board

284

00:30:41,090 --> 00:30:38,340

um I'm a Jujitsu practitioner I trained

285

00:30:43,730 --> 00:30:41,100

doing Jiu Jitsu so I have a kimono that

286

00:30:46,730 --> 00:30:43,740

I'm gonna wear on board and probably do

287

00:30:49,970 --> 00:30:46,740

some moves but overall I think we share

288

00:30:52,370 --> 00:30:49,980

the same goal we all trained to go and

289

00:30:54,529 --> 00:30:52,380

conduct science we all we want to share

290

00:30:56,590 --> 00:30:54,539

this experience with everybody I mean

291

00:30:59,450 --> 00:30:56,600

spreading the enthusiasm with everybody

292

00:31:01,789 --> 00:30:59,460

uh share the knowledge that we

293

00:31:06,289 --> 00:31:01,799

experience on board the station it's the

294

00:31:10,850 --> 00:31:08,930

welcome to Florida I'm Gene Wright from

295

00:31:13,130 --> 00:31:10,860

space up close and my question is for

296

00:31:16,070 --> 00:31:13,140

Commander Bowen go Bruins

297

00:31:17,810 --> 00:31:16,080

anyway as a former Submariner wife and

298

00:31:20,330 --> 00:31:17,820

you being the first submarine officer

299

00:31:22,430 --> 00:31:20,340

that was selected as an ascan

300

00:31:23,630 --> 00:31:22,440

we both know the unique challenges in

301

00:31:25,730 --> 00:31:23,640

the small quarters that are on

302

00:31:27,710 --> 00:31:25,740

submarines and and with your all rookie

303

00:31:29,149 --> 00:31:27,720

crew I was curious if you had any tips

304

00:31:31,430 --> 00:31:29,159

or pointers how you survived being on

305

00:31:33,889 --> 00:31:31,440

submarines and plus being in a small

306

00:31:35,570 --> 00:31:33,899

capsule did you order have any tips for

307

00:31:37,130 --> 00:31:35,580

them to survive being in such small

308

00:31:40,549 --> 00:31:37,140

quarters thank you

309

00:31:41,930 --> 00:31:40,559

uh and you know it's interesting when I

310

00:31:44,269 --> 00:31:41,940

first got to the space station on my

311

00:31:46,850 --> 00:31:44,279

first flight it very much reminded me of

312

00:31:49,549 --> 00:31:46,860

a submarine which uh the Close Quarters

313

00:31:51,889 --> 00:31:49,559

even the odor and not necessarily a good

314

00:31:54,769 --> 00:31:51,899

thing was very submarine like uh and

315

00:31:57,350 --> 00:31:54,779

looking at what we're about to do uh one

316

00:31:59,570 --> 00:31:57,360

of the big concerns that we have or I

317

00:32:01,430 --> 00:31:59,580

have uh with the capsule itself is

318

00:32:04,549 --> 00:32:01,440

making it stowed for seed you know

319

00:32:06,649 --> 00:32:04,559

keeping your vehicle uh cleaned up ready

320

00:32:08,870 --> 00:32:06,659

to operate at all times you don't have

321

00:32:11,870 --> 00:32:08,880

extra stuff floating around so those

322

00:32:14,149 --> 00:32:11,880

skills we learn uh obviously on a

323

00:32:16,370 --> 00:32:14,159

submarine but also we trained that at

324

00:32:19,789 --> 00:32:16,380

Nasa so I think over the years it's been

325

00:32:21,590 --> 00:32:19,799

really interesting to watch and see how

326

00:32:23,630 --> 00:32:21,600

they develop skills for people that

327

00:32:25,730 --> 00:32:23,640

don't necessarily bring them with them

328

00:32:27,769 --> 00:32:25,740

they train them so I feel highly

329

00:32:29,090 --> 00:32:27,779

confident and if they have any questions

330

00:32:31,789 --> 00:32:29,100

I'm sure they'll ask and I'll make up

331

00:32:36,230 --> 00:32:31,799

some answer for them but it's a it's

332

00:32:40,909 --> 00:32:38,510

thank you uh Scott Hadler wished to NBC

333

00:32:41,510 --> 00:32:40,919

Orlando again for Commander Bowen

334

00:32:44,149 --> 00:32:41,520

um

335

00:32:45,950 --> 00:32:44,159

Earthly politics how do you is there a

336

00:32:47,990 --> 00:32:45,960

conscious effort throughout the training

337

00:32:50,510 --> 00:32:48,000

the years of training

338

00:32:52,310 --> 00:32:50,520

um to keep that out of the mix is that

339

00:32:53,990 --> 00:32:52,320

are the rules are there guidelines or is

340

00:32:56,029 --> 00:32:54,000

it just kind of a natural part of the

341

00:32:58,549 --> 00:32:56,039

workflow in the camaraderie you know

342

00:32:59,930 --> 00:32:58,559

we're all professionals and uh you kind

343

00:33:01,669 --> 00:32:59,940

of you focus on what you're doing you

344

00:33:03,230 --> 00:33:01,679

focus on your training you know it's

345

00:33:06,110 --> 00:33:03,240

like almost any other environment I've

346

00:33:07,850 --> 00:33:06,120

ever been up it's rare that these issues

347

00:33:10,850 --> 00:33:07,860

come up in natural conversation it's

348

00:33:12,529 --> 00:33:10,860

weird if they do anywhere so uh you know

349

00:33:14,330 --> 00:33:12,539

our professionalism and we keep focused

350

00:33:16,730 --> 00:33:14,340

on the mission itself and that's

351

00:33:18,289 --> 00:33:16,740

uh it's always been a great relationship

352

00:33:20,269 --> 00:33:18,299

we've had with cosmonauts once we get to

353

00:33:22,250 --> 00:33:20,279

space and so you know we're all in the

354

00:33:23,990 --> 00:33:22,260

same vehicle we're all operating the

355

00:33:26,990 --> 00:33:24,000

same way working toward the same goals

356

00:33:30,049 --> 00:33:27,000

and uh you know it's been amazing to

357

00:33:34,190 --> 00:33:32,210

hi server from the national uh my

358

00:33:35,870 --> 00:33:34,200

question is for Stephen Bowen if you

359

00:33:37,970 --> 00:33:35,880

could talk about what it's been like

360

00:33:39,830 --> 00:33:37,980

training with Sultan al-niadi being from

361

00:33:41,750 --> 00:33:39,840

different cultures what did you learn

362

00:33:42,830 --> 00:33:41,760

from him and each other and how do you

363

00:33:44,750 --> 00:33:42,840

think that's going to sort of translate

364

00:33:46,250 --> 00:33:44,760

on the ISS

365

00:33:48,230 --> 00:33:46,260

um and my second question is for Dr

366

00:33:49,909 --> 00:33:48,240

al-nayadi if you could talk about how

367

00:33:51,649 --> 00:33:49,919

you're feeling but maybe in speaking

368

00:33:53,810 --> 00:33:51,659

Arabic just for our Middle East viewers

369

00:33:57,169 --> 00:33:53,820

thank you

370

00:33:58,909 --> 00:33:57,179

now actually it's uh I met Sultan and

371

00:34:02,630 --> 00:33:58,919

huzzah back in Star City when I was

372

00:34:06,110 --> 00:34:02,640

training for a soyuz launch in 2018 not

373

00:34:07,130 --> 00:34:06,120

when we crossed past about 2018. so uh I

374

00:34:09,409 --> 00:34:07,140

had already met them and I've always

375

00:34:11,990 --> 00:34:09,419

been impressed uh

376

00:34:13,669 --> 00:34:12,000

with the individuals and then the

377

00:34:16,070 --> 00:34:13,679

culture they bring to it as well I'm

378

00:34:17,450 --> 00:34:16,080

incredibly excited to to learn new

379

00:34:18,649 --> 00:34:17,460

cultures as I you know when I first

380

00:34:21,349 --> 00:34:18,659

started trading with the Russians 20

381

00:34:24,409 --> 00:34:21,359

years ago it's just exciting to me to

382

00:34:27,169 --> 00:34:24,419

see that and see what people bring uh to

383

00:34:30,290 --> 00:34:27,179

the conversations and uh looking forward

384

00:34:32,629 --> 00:34:30,300

to operating with Sultan on orbit and

385

00:34:34,730 --> 00:34:32,639

having the opportunity to experience

386

00:34:36,470 --> 00:34:34,740

actually through everybody's eyes that's

387

00:34:41,869 --> 00:34:36,480

it's just so cool to watch people on

388

00:34:46,369 --> 00:34:44,869

so uh I'm gonna speak in Arabic I'm not

389

00:34:48,770 --> 00:34:46,379

going to play a joke with our

390

00:34:50,210 --> 00:34:48,780

interpreter one time I spoke in Arabic

391

00:34:54,050 --> 00:34:50,220

and I looked at the Russian interpreter

392

00:35:11,750 --> 00:34:54,060

and they were confused so I'll play both

393

00:35:11,760 --> 00:35:41,870

[Music]

394

00:35:41,880 --> 00:35:54,829

foreign

395

00:35:59,630 --> 00:35:57,530

so uh I just saying exactly what I said

396

00:36:02,329 --> 00:35:59,640

in English we're really happy to be here

397

00:36:06,710 --> 00:36:02,339

today in this historic place the place

398

00:36:08,630 --> 00:36:06,720

where uh the first man uh who landed on

399

00:36:10,970 --> 00:36:08,640

the moon was was flown from from this

400

00:36:14,690 --> 00:36:10,980

place it's a great honor a great

401
00:36:17,150 --> 00:36:14,700
privilege and after the very successful

402
00:36:19,550 --> 00:36:17,160
mission of the the first UA mission to

403
00:36:23,450 --> 00:36:19,560
the International Space Station 2019

404
00:36:26,450 --> 00:36:23,460
when my colleague hazal masuri flew uh

405
00:36:30,890 --> 00:36:26,460
everybody uh was happy everybody was

406
00:36:33,589 --> 00:36:30,900
excited we felt a boost in the space

407
00:36:36,050 --> 00:36:33,599
enthusiasm all over the the region

408
00:36:38,390 --> 00:36:36,060
specifically in the UAE so this mission

409
00:36:40,010 --> 00:36:38,400
is a continuation

410
00:36:43,370 --> 00:36:40,020
um this time it's going to be six months

411
00:36:46,730 --> 00:36:43,380
we hope to uh conduct the mission with

412
00:36:49,849 --> 00:36:46,740
the this awesome crew and come back with

413
00:36:56,630 --> 00:36:49,859

the uh the the aims or the goals that

414

00:37:01,250 --> 00:36:59,150

is he Spaceport

415

00:37:03,109 --> 00:37:01,260

a little bit of what you said but um we

416

00:37:05,210 --> 00:37:03,119

do understand that you are grateful for

417

00:37:06,829 --> 00:37:05,220

being here and this is a historic

418

00:37:09,230 --> 00:37:06,839

mission for you all

419

00:37:12,230 --> 00:37:09,240

um we do have about

420

00:37:13,730 --> 00:37:12,240

about 10 more minutes uh left for Q a if

421

00:37:15,530 --> 00:37:13,740

you still have questions for the crew

422

00:37:16,790 --> 00:37:15,540

please step up to the mic on your right

423

00:37:18,230 --> 00:37:16,800

hand side

424

00:37:20,089 --> 00:37:18,240

um and you can go ahead and ask your

425

00:37:22,730 --> 00:37:20,099

question Marcia done AP again for Dr

426

00:37:26,630 --> 00:37:22,740

aniadi um during your mission you will

427

00:37:29,210 --> 00:37:26,640

have two Saudi astronauts joining you

428

00:37:31,250 --> 00:37:29,220

um with the Axiom crew you know that'll

429

00:37:33,410 --> 00:37:31,260

be the three of three from the Arab

430

00:37:35,450 --> 00:37:33,420

world on board at one time how exciting

431

00:37:37,010 --> 00:37:35,460

important is that for you and could you

432

00:37:40,510 --> 00:37:37,020

give a little quick rundown on your

433

00:37:43,190 --> 00:37:40,520

emirati menu in space thank you

434

00:37:45,650 --> 00:37:43,200

well uh I think it's going to be uh

435

00:37:48,109 --> 00:37:45,660

really exciting really interesting uh

436

00:37:51,650 --> 00:37:48,119

the first Arab astronaut ever was a

437

00:37:54,109 --> 00:37:51,660

prince Sultana Salman he flew in 85 and

438

00:37:56,410 --> 00:37:54,119

then he was followed by a Assyrian

439

00:38:00,170 --> 00:37:56,420

astronaut in uh

440

00:38:02,089 --> 00:38:00,180

87 I believe uh Hazard was at the the

441

00:38:05,030 --> 00:38:02,099

third I'm gonna be the fourth and then

442

00:38:06,950 --> 00:38:05,040

having two additional guys meeting in

443

00:38:08,870 --> 00:38:06,960

space for for the first time I think

444

00:38:10,970 --> 00:38:08,880

it's going to be really interesting

445

00:38:14,150 --> 00:38:10,980

um again it's it's a for the sake of

446

00:38:16,910 --> 00:38:14,160

science for the sake of uh spreading the

447

00:38:20,510 --> 00:38:16,920

knowledge about how important is to fly

448

00:38:23,390 --> 00:38:20,520

and uh to push the boundaries of

449

00:38:26,150 --> 00:38:23,400

exploration not only in the leading

450

00:38:29,530 --> 00:38:26,160

countries our region is also thirsty to

451

00:38:31,910 --> 00:38:29,540

learn more and I think we will be uh

452

00:38:34,630 --> 00:38:31,920

ambassadors in these missions hopefully

453

00:38:37,010 --> 00:38:34,640

we can come back with knowledge and

454

00:38:39,170 --> 00:38:37,020

share whatever we learn with everybody

455

00:38:42,170 --> 00:38:39,180

and in terms of the food I can only

456

00:38:44,089 --> 00:38:42,180

probably say dates I love dates I'm

457

00:38:47,210 --> 00:38:44,099

gonna take dates and hopefully I'm gonna

458

00:38:49,790 --> 00:38:47,220

share uh days with everybody especially

459

00:38:51,890 --> 00:38:49,800

in Ramadan this is a request from the

460

00:38:55,190 --> 00:38:51,900

commander and I cannot say no to my

461

00:38:59,870 --> 00:38:57,530

hi Ken Kramer space up close following

462

00:39:01,430 --> 00:38:59,880

on that uh good luck I'm a scientist so

463

00:39:04,010 --> 00:39:01,440

I'd like to ask each of you could you

464

00:39:05,569 --> 00:39:04,020

please describe uh your top science one

465

00:39:07,430 --> 00:39:05,579

or two science experiments you're gonna

466

00:39:16,370 --> 00:39:07,440

you're gonna be doing on the ISS over

467

00:39:20,990 --> 00:39:18,349

I'll start with the easy ones which are

468

00:39:23,450 --> 00:39:21,000

the ones we're the subjects of

469

00:39:25,910 --> 00:39:23,460

um you know uh part of being an

470

00:39:28,190 --> 00:39:25,920

astronaut it's you know it's awesome to

471

00:39:30,650 --> 00:39:28,200

fly in space it's awesome to be a part

472

00:39:33,530 --> 00:39:30,660

of the research and the science but

473

00:39:37,609 --> 00:39:33,540

we're also the subjects as well and so

474

00:39:39,530 --> 00:39:37,619

having that opportunity to to contribute

475

00:39:42,349 --> 00:39:39,540

you know what what we learn about

476

00:39:43,550 --> 00:39:42,359

ourselves uh on orbit is really the most

477

00:39:46,190 --> 00:39:43,560

exciting something I think he tried to

478

00:39:48,290 --> 00:39:46,200

volunteer for every one of the projects

479

00:39:49,370 --> 00:39:48,300

that we could uh they went back and they

480

00:39:53,569 --> 00:39:49,380

filtered out and they figured out what

481

00:39:55,550 --> 00:39:53,579

you can do in orbit so I've got uh

482

00:39:57,950 --> 00:39:55,560

can't even remember how to all of them

483

00:40:01,089 --> 00:39:57,960

but there's diet

484

00:40:03,890 --> 00:40:01,099

studies there's uh blood studies there's

485

00:40:05,510 --> 00:40:03,900

just an amazing number of genetic

486

00:40:07,310 --> 00:40:05,520

studies so that's that's the exciting

487

00:40:11,329 --> 00:40:07,320

part just being the subject and being

488

00:40:15,589 --> 00:40:13,609

as Steve said it's fun to be a subject

489

00:40:17,510 --> 00:40:15,599

in the scientific studies ourselves I'll

490

00:40:19,190 --> 00:40:17,520

be eating a modified diet

491

00:40:21,950 --> 00:40:19,200

um I'll be eating more fish than usual

492

00:40:24,710 --> 00:40:21,960

and some extra lycopene and doing some

493

00:40:27,050 --> 00:40:24,720

research on diet in space aside from

494

00:40:28,790 --> 00:40:27,060

that like Steve said we are involved in

495

00:40:31,730 --> 00:40:28,800

hundreds of scientific research studies

496

00:40:33,950 --> 00:40:31,740

at any given time one that's that I'm

497

00:40:36,349 --> 00:40:33,960

pretty excited about is we may late in

498

00:40:39,349 --> 00:40:36,359

our mission potentially if we go outside

499

00:40:41,450 --> 00:40:39,359

Eva we may actually do some sampling on

500

00:40:44,270 --> 00:40:41,460

the outside of the space station and

501
00:40:47,030 --> 00:40:44,280
start trying to characterize the like

502
00:40:48,470 --> 00:40:47,040
microbi any biologic samples that are

503
00:40:50,870 --> 00:40:48,480
that exist outside the space station

504
00:40:53,210 --> 00:40:50,880
that is relevant to our planetary

505
00:40:54,950 --> 00:40:53,220
protection mission that at Nasa we take

506
00:40:57,290 --> 00:40:54,960
very seriously as we think forward to

507
00:41:00,950 --> 00:40:57,300
exploration so just as we've been doing

508
00:41:03,470 --> 00:41:00,960
for over 20 years now using the ISS as a

509
00:41:09,890 --> 00:41:03,480
platform to inform the engineering and

510
00:41:15,829 --> 00:41:13,190
so uh during our uh preparation but the

511
00:41:18,410 --> 00:41:15,839
mission we get to train on uh Cutting

512
00:41:21,470 --> 00:41:18,420
Edge Technologies we are all trained to

513
00:41:23,870 --> 00:41:21,480

uh conduct a lot of Science and will be

514

00:41:26,510 --> 00:41:23,880

the hands the eyes the ears of of the

515

00:41:29,510 --> 00:41:26,520

scientists who are working uh for years

516

00:41:31,030 --> 00:41:29,520

for a specific uh experiment some of the

517

00:41:33,710 --> 00:41:31,040

experiments are

518

00:41:36,530 --> 00:41:33,720

ongoing some of them are ending soon and

519

00:41:38,750 --> 00:41:36,540

some of them are just starting so one

520

00:41:41,150 --> 00:41:38,760

very interesting uh experiment that I'm

521

00:41:44,690 --> 00:41:41,160

looking really to see is seeing the

522

00:41:46,790 --> 00:41:44,700

heart tissue beating in in space so this

523

00:41:50,270 --> 00:41:46,800

is something uh like a Cutting Edge

524

00:41:53,230 --> 00:41:50,280

technology that one day we can when we

525

00:41:56,510 --> 00:41:53,240

start 3D printing

526

00:41:58,370 --> 00:41:56,520

organs this is really important to see

527

00:42:00,650 --> 00:41:58,380

how the structure is built in

528

00:42:04,310 --> 00:42:00,660

microgravity so this can give us a

529

00:42:06,530 --> 00:42:04,320

really good Insight how these uh tissues

530

00:42:09,050 --> 00:42:06,540

are built so one of them is testing

531

00:42:10,870 --> 00:42:09,060

heart tissues we have a lot of Material

532

00:42:13,310 --> 00:42:10,880

Science as well we're going to test

533

00:42:16,010 --> 00:42:13,320

fluidics we're going to test the

534

00:42:18,650 --> 00:42:16,020

materials and how they burn in space and

535

00:42:21,770 --> 00:42:18,660

this is for the future missions when we

536

00:42:23,870 --> 00:42:21,780

go into the lunar service again or going

537

00:42:25,970 --> 00:42:23,880

into another planet so we need to test

538

00:42:28,790 --> 00:42:25,980

materials and how they react in

539

00:42:31,010 --> 00:42:28,800

microgravity and different atmospheres

540

00:42:32,990 --> 00:42:31,020

let's say on Mars for example so a

541

00:42:34,370 --> 00:42:33,000

lot of the excitement I'm really excited

542

00:42:37,190 --> 00:42:34,380

to conduct a lot of Science and

543

00:42:44,089 --> 00:42:37,200

communicate what whatever we have back

544

00:42:44,099 --> 00:42:48,890

uh

545

00:42:48,900 --> 00:43:14,540

um

546

00:43:19,010 --> 00:43:17,690

[Music]

547

00:43:33,109 --> 00:43:19,020

uh

548

00:43:36,410 --> 00:43:33,119

the Russian segment and we also have

549

00:43:38,870 --> 00:43:36,420

joint experiments and as I have already

550

00:43:41,569 --> 00:43:38,880

mentioned we have more or less uh the

551
00:43:43,730 --> 00:43:41,579
same scientific program and the

552
00:43:46,790 --> 00:43:43,740
experiments that we conduct on the

553
00:43:50,510 --> 00:43:46,800
Russian segment could be divided into

554
00:43:52,730 --> 00:43:50,520
several groups basically we study how

555
00:43:54,829 --> 00:43:52,740
the space environment affects human

556
00:43:59,150 --> 00:43:54,839
beings how it affects different

557
00:44:03,829 --> 00:43:59,160
materials in space and also we do earth

558
00:44:08,270 --> 00:44:03,839
studies and studies of the space itself

559
00:44:12,710 --> 00:44:08,280
and this is more or less it

560
00:44:16,970 --> 00:44:14,750
alrighty we have time for about one more

561
00:44:19,910 --> 00:44:16,980
question you can step up and ask the

562
00:44:20,690 --> 00:44:19,920
final question Scott heidler West 2 NBC

563
00:44:22,309 --> 00:44:20,700

Orlando

564

00:44:24,770 --> 00:44:22,319

um for pilot Hobart

565

00:44:26,210 --> 00:44:24,780

um now that we're seeing the the seventh

566

00:44:28,790 --> 00:44:26,220

Drew

567

00:44:30,470 --> 00:44:28,800

um Dragon crew capsule being used the

568

00:44:31,490 --> 00:44:30,480

seventh time I should say do you get

569

00:44:33,109 --> 00:44:31,500

briefing notes or do you have

570

00:44:36,770 --> 00:44:33,119

conversations with the previous pilots

571

00:44:38,150 --> 00:44:36,780

and is that specific to each capsule or

572

00:44:39,890 --> 00:44:38,160

is that kind of General how they

573

00:44:41,569 --> 00:44:39,900

maneuver in other words like I would

574

00:44:43,069 --> 00:44:41,579

imagine that Pilots for airplanes they

575

00:44:44,750 --> 00:44:43,079

talk about this certain aircraft versus

576

00:44:47,150 --> 00:44:44,760

that certain aircraft

577

00:44:49,670 --> 00:44:47,160

yeah absolutely um that's been one of

578

00:44:53,510 --> 00:44:49,680

the coolest parts of all our training

579

00:44:55,370 --> 00:44:53,520

um we actually our capsule Endeavor this

580

00:44:57,410 --> 00:44:55,380

will be the fourth crude flight of

581

00:44:59,990 --> 00:44:57,420

endeavor so Endeavor flew on demo two

582

00:45:02,270 --> 00:45:00,000

flew on Crew 2 the Axiom One mission and

583

00:45:03,950 --> 00:45:02,280

then will be the fourth crude flight but

584

00:45:05,809 --> 00:45:03,960

to get to your question

585

00:45:07,609 --> 00:45:05,819

um we have a chance to talk with

586

00:45:08,930 --> 00:45:07,619

previous Crews that have flown dragon

587

00:45:10,630 --> 00:45:08,940

and it doesn't really matter which

588

00:45:14,270 --> 00:45:10,640

capsule we flew on they're all

589

00:45:15,950 --> 00:45:14,280

operationally quite similar and I think

590

00:45:17,690 --> 00:45:15,960

it's really interesting because you know

591

00:45:19,730 --> 00:45:17,700

within the crew we come up with our own

592

00:45:21,890 --> 00:45:19,740

what we call crms crew resource

593

00:45:24,589 --> 00:45:21,900

management and kind of figure out what

594

00:45:26,349 --> 00:45:24,599

works for us as a crew and that's you

595

00:45:28,849 --> 00:45:26,359

know myself and Steve but then also

596

00:45:31,550 --> 00:45:28,859

Sultan and Andre are a huge part of that

597

00:45:34,849 --> 00:45:31,560

so when we train for example emergencies

598

00:45:37,250 --> 00:45:34,859

out at Hawthorne the whole crew all four

599

00:45:38,750 --> 00:45:37,260

of us come together to organize the

600

00:45:40,130 --> 00:45:38,760

capsule and for example if we're

601
00:45:43,010 --> 00:45:40,140
training for something like an emergency

602
00:45:45,530 --> 00:45:43,020
deorbit everybody has a really big part

603
00:45:47,270 --> 00:45:45,540
role in pulling that together each crew

604
00:45:49,190 --> 00:45:47,280
is slightly different in how we choose

605
00:45:51,230 --> 00:45:49,200
to manage that but the conversations

606
00:45:53,270 --> 00:45:51,240
with previous NASA Crews have been

607
00:45:54,950 --> 00:45:53,280
really informative for helping to

608
00:45:59,329 --> 00:45:54,960
establish that CRM and figure out what

609
00:46:03,589 --> 00:46:01,069
thank you and that's going to conclude

610
00:46:05,329 --> 00:46:03,599
the Q a portion for media I will tell

611
00:46:07,010 --> 00:46:05,339
the crew I want you guys to stick around

612
00:46:08,750 --> 00:46:07,020
for a photo op after this and I'm going

613
00:46:10,370 --> 00:46:08,760

to turn it back over to the deputy

614

00:46:16,430 --> 00:46:10,380

director of the Kennedy Space Center Uh

615

00:46:22,370 --> 00:46:19,130

so again thank you so much for joining

616

00:46:25,790 --> 00:46:22,380

us to welcome Cruise six Steve Woody

617

00:46:27,890 --> 00:46:25,800

Sultan and Andre we look forward to a

618

00:46:29,690 --> 00:46:27,900

beautiful launch next week in a

619

00:46:33,829 --> 00:46:29,700

successful mission

620

00:46:37,609 --> 00:46:33,839

so until then we say go NASA go SpaceX

621

00:46:40,330 --> 00:46:37,619

go Falcon 9 Goku Dragon and Go Crew six