
esa
NASA
TC DYSON

1
00:10:17,030 --> 00:09:58,150
[Music]

2
00:10:33,550 --> 00:10:19,750
new possibilities are opening up for

3
00:10:49,780 --> 00:10:33,560
scientific cooperation between countries

4
00:10:49,790 --> 00:10:58,470
[Music]

5
00:11:02,550 --> 00:11:00,310
welcome to nasa's kennedy space center

6
00:11:04,550 --> 00:11:02,560
we're here celebrating getting ready for

7
00:11:06,069 --> 00:11:04,560
nasa's spacex crew 2 mission to the

8
00:11:08,069 --> 00:11:06,079
international space station

9
00:11:10,069 --> 00:11:08,079
a super exciting time for us this is the

10
00:11:12,470 --> 00:11:10,079
third crude flight

11
00:11:14,470 --> 00:11:12,480
from american soil within a year's time

12
00:11:16,550 --> 00:11:14,480
frame so we are incredibly excited to be

13
00:11:18,790 --> 00:11:16,560

expanding capacity on the space station

14
00:11:20,310 --> 00:11:18,800
uh there's a lot going on uh i have some

15
00:11:21,590 --> 00:11:20,320
amazing guests here this morning and

16
00:11:23,030 --> 00:11:21,600
want to make sure that i get a chance to

17
00:11:26,069 --> 00:11:23,040
introduce them in just a minute

18
00:11:26,949 --> 00:11:26,079
uh some order of business here um i want

19
00:11:27,990 --> 00:11:26,959
to make sure you all know launch is

20
00:11:30,790 --> 00:11:28,000
scheduled for 5

21
00:11:31,590 --> 00:11:30,800
49 a.m on friday uh if you haven't heard

22
00:11:32,630 --> 00:11:31,600
mother nature

23
00:11:34,150 --> 00:11:32,640
although we're celebrating earth day

24
00:11:35,190 --> 00:11:34,160
tomorrow had other plans for our launch

25
00:11:36,310 --> 00:11:35,200
attempt in the morning

26
00:11:37,990 --> 00:11:36,320
uh so we're gonna give it a shot on

27
00:11:39,269 --> 00:11:38,000
friday um and so we might talk about

28
00:11:39,990 --> 00:11:39,279
that a little bit more to this morning

29
00:11:42,310 --> 00:11:40,000
as to why

30
00:11:43,750 --> 00:11:42,320
we're not going to attempt tomorrow um

31
00:11:45,269 --> 00:11:43,760
but it's an incredible time please make

32
00:11:46,550 --> 00:11:45,279
sure you ask your questions

33
00:11:47,990 --> 00:11:46,560
whether you're watching on facebook or

34
00:11:49,509 --> 00:11:48,000
on youtube we're going to be taking

35
00:11:50,870 --> 00:11:49,519
those live here momentarily

36
00:11:52,389 --> 00:11:50,880
and we're going to jump right into it so

37
00:11:53,910 --> 00:11:52,399
i want to ask the folks here i'm going

38
00:11:55,829 --> 00:11:53,920

to introduce them really briefly

39
00:11:57,670 --> 00:11:55,839
and then give them a chance to to share

40
00:11:59,269 --> 00:11:57,680
number one what you do for

41
00:12:00,710 --> 00:11:59,279
either nasa or our international

42
00:12:01,910 --> 00:12:00,720
partners for their agencies

43
00:12:03,190 --> 00:12:01,920
and then uh where you're gonna be on

44
00:12:04,790 --> 00:12:03,200
launch day what your role is so we'll

45
00:12:07,350 --> 00:12:04,800
start here on my right with mr cabana

46
00:12:08,710 --> 00:12:07,360
uh the longest serving center director

47
00:12:09,350 --> 00:12:08,720
for the kennedy space center congrats

48
00:12:10,790 --> 00:12:09,360
and welcome

49
00:12:12,710 --> 00:12:10,800
i i don't know if that's good or bad

50
00:12:14,470 --> 00:12:12,720
josh i think it's a good thing i

51
00:12:16,629 --> 00:12:14,480
i think the good thing about it is that

52
00:12:17,590 --> 00:12:16,639
uh because i have been here so long

53
00:12:19,509 --> 00:12:17,600
we've been able to

54
00:12:21,509 --> 00:12:19,519
complete this transition from shuttle to

55
00:12:22,870 --> 00:12:21,519
this amazing multi-user spaceport that

56
00:12:25,269 --> 00:12:22,880
we have today

57
00:12:27,430 --> 00:12:25,279
you know my role i get to lead this

58
00:12:28,870 --> 00:12:27,440
amazing team at the kennedy space center

59
00:12:30,870 --> 00:12:28,880
and i got to brag on them a little bit

60
00:12:33,190 --> 00:12:30,880
you look back on this last year

61
00:12:34,470 --> 00:12:33,200
with all the covet and all the issues

62
00:12:36,629 --> 00:12:34,480
we've had and people

63
00:12:39,430 --> 00:12:36,639

mandatory telework and everything else

64
00:12:43,190 --> 00:12:39,440
and the team here at ksc the team across

65
00:12:44,870 --> 00:12:43,200
nasa has not missed a beat i mean

66
00:12:47,509 --> 00:12:44,880
steve's going to talk more about i'm

67
00:12:49,910 --> 00:12:47,519
sure but look at all our accomplishments

68
00:12:51,269 --> 00:12:49,920
since last may we launched bob and doug

69
00:12:52,790 --> 00:12:51,279
to the international space station in

70
00:12:54,710 --> 00:12:52,800
may first flight of a crew

71
00:12:56,710 --> 00:12:54,720
from the kennedy space center on a u.s

72
00:12:59,430 --> 00:12:56,720
rocket from u.s soil to iss

73
00:13:00,230 --> 00:12:59,440
in nine years you know we've got the

74
00:13:02,870 --> 00:13:00,240
crew

75
00:13:04,389 --> 00:13:02,880
one mission launched last november

76
00:13:04,870 --> 00:13:04,399
they're going to be coming home here on

77
00:13:06,949 --> 00:13:04,880
the

78
00:13:08,629 --> 00:13:06,959
28th and we're getting ready to launch

79
00:13:11,350 --> 00:13:08,639
crew 2 making history again

80
00:13:12,550 --> 00:13:11,360
because it's a reuse of that capsule

81
00:13:14,790 --> 00:13:12,560
that flew bob and doug

82
00:13:16,870 --> 00:13:14,800
on that demo flight in a reuse of the

83
00:13:19,030 --> 00:13:16,880
falcon 9 booster also

84
00:13:20,550 --> 00:13:19,040
ins we've also launched you know

85
00:13:23,670 --> 00:13:20,560
missions to mars

86
00:13:25,910 --> 00:13:23,680
landed the curiosity rover and

87
00:13:28,230 --> 00:13:25,920
uh i can go on and on we got like we're

88
00:13:28,870 --> 00:13:28,240

averaging like 10 nasa flights a year

89
00:13:30,790 --> 00:13:28,880
here

90
00:13:31,910 --> 00:13:30,800
at the spaceport over the next five

91
00:13:33,750 --> 00:13:31,920
years and

92
00:13:35,350 --> 00:13:33,760
when you add up all the launches from

93
00:13:36,150 --> 00:13:35,360
here at the cape including the air force

94
00:13:39,189 --> 00:13:36,160
launches

95
00:13:40,629 --> 00:13:39,199
and it's only going to increase and

96
00:13:42,069 --> 00:13:40,639
that's the environment that we're in for

97
00:13:44,230 --> 00:13:42,079
america's space program

98
00:13:46,470 --> 00:13:44,240
it's absolutely outstanding you know of

99
00:13:50,389 --> 00:13:46,480
course yeah i'm going on and on

100
00:13:52,550 --> 00:13:50,399
one more plug we got uh the core stage

101
00:13:54,310 --> 00:13:52,560
is coming it completed its green run

102
00:13:55,990 --> 00:13:54,320
and on the 28th or ninth we'll see

103
00:13:57,509 --> 00:13:56,000
they're getting it into the pegasus

104
00:13:59,269 --> 00:13:57,519
barge over there at stennis

105
00:14:01,189 --> 00:13:59,279
it's going to come into this turn basin

106
00:14:02,710 --> 00:14:01,199
back behind me tie up to the pier

107
00:14:04,470 --> 00:14:02,720
and roll over in that building where we

108
00:14:06,069 --> 00:14:04,480
already have the solid rocket motor

109
00:14:07,829 --> 00:14:06,079
stacked up on the

110
00:14:09,350 --> 00:14:07,839
mobile launcher for that artemus one

111
00:14:11,189 --> 00:14:09,360
test flight that's

112
00:14:12,629 --> 00:14:11,199
coming hopefully later this year but at

113
00:14:14,310 --> 00:14:12,639

least early next year and that's going

114
00:14:16,629 --> 00:14:14,320
to be absolutely amazing

115
00:14:19,110 --> 00:14:16,639
as we fly that big rocket i can't wait

116
00:14:21,590 --> 00:14:19,120
so with that i i'll stop

117
00:14:23,030 --> 00:14:21,600
uh i could go on and on amazing team and

118
00:14:23,750 --> 00:14:23,040
i'm looking forward to your questions

119
00:14:25,189 --> 00:14:23,760
thanks josh

120
00:14:26,710 --> 00:14:25,199
yeah no and the passion is something

121
00:14:27,110 --> 00:14:26,720
that we appreciate about you mr cabana

122
00:14:29,269 --> 00:14:27,120
um

123
00:14:30,550 --> 00:14:29,279
you're always excited always telling the

124
00:14:32,069 --> 00:14:30,560
story well so thank you

125
00:14:34,150 --> 00:14:32,079
um and now we'll send down to the other

126
00:14:35,509 --> 00:14:34,160
end uh mr steve jerzik he's the acting

127
00:14:37,430 --> 00:14:35,519
administrator for nasa

128
00:14:39,110 --> 00:14:37,440
uh welcome and uh tell us about your

129
00:14:41,590 --> 00:14:39,120
role and where you'll be on launch day

130
00:14:42,710 --> 00:14:41,600
yeah so before january 20th of the year

131
00:14:44,150 --> 00:14:42,720
this year i was the associate

132
00:14:45,670 --> 00:14:44,160
administrator of the agency kind of like

133
00:14:47,350 --> 00:14:45,680
the chief operating officer

134
00:14:49,030 --> 00:14:47,360
the down and then running the run the

135
00:14:51,110 --> 00:14:49,040
place day to day um

136
00:14:53,509 --> 00:14:51,120
was really challenging particularly

137
00:14:54,069 --> 00:14:53,519
starting a year ago march to run agency

138
00:14:57,430 --> 00:14:54,079

and

139
00:14:59,030 --> 00:14:57,440
be more proud of the team

140
00:15:01,430 --> 00:14:59,040
the nasa team with our industry and

141
00:15:01,990 --> 00:15:01,440
international partners um since the 20th

142
00:15:04,550 --> 00:15:02,000
i've been

143
00:15:05,990 --> 00:15:04,560
acting administrator for nasa so i run

144
00:15:08,470 --> 00:15:06,000
the agency

145
00:15:09,590 --> 00:15:08,480
um if i was a a i'd be over in firing

146
00:15:12,069 --> 00:15:09,600
room four

147
00:15:13,910 --> 00:15:12,079
launch control with with bob and the

148
00:15:15,110 --> 00:15:13,920
spacex and nasa team but as acting

149
00:15:18,310 --> 00:15:15,120
administrator i'll be in

150
00:15:19,750 --> 00:15:18,320
almost support building 2 osb 2 with our

151
00:15:22,310 --> 00:15:19,760
guests including our international

152
00:15:23,829 --> 00:15:22,320
partner guests and running things from

153
00:15:26,870 --> 00:15:23,839
there

154
00:15:30,550 --> 00:15:26,880
so with that i'd like to turn it over to

155
00:15:35,910 --> 00:15:33,749
thank you steve i'm hiroshasaki

156
00:15:37,350 --> 00:15:35,920
by spiritual jackson this one's for

157
00:15:40,470 --> 00:15:37,360
human space flight and

158
00:15:44,629 --> 00:15:40,480
space explorations on friday

159
00:15:48,949 --> 00:15:44,639
i would stay in ksc and uh leading the

160
00:15:51,910 --> 00:15:48,959
jaxa team supporting the aki hoshide

161
00:15:52,870 --> 00:15:51,920
and i spoke to a coach there last night

162
00:15:59,670 --> 00:15:52,880
and he's

163
00:16:02,550 --> 00:15:59,680

third flight and he will uh become the

164
00:16:03,990 --> 00:16:02,560
iss commander on this mission thank you

165
00:16:05,910 --> 00:16:04,000
yeah this is actually the first time

166
00:16:08,389 --> 00:16:05,920
we'll be passing command from

167
00:16:10,310 --> 00:16:08,399
a jax astronaut to a jaxa astronaut so

168
00:16:11,509 --> 00:16:10,320
yeah incredibly proud of that team and

169
00:16:13,509 --> 00:16:11,519
and the work that we're able to kind of

170
00:16:14,550 --> 00:16:13,519
help enable and be a part of yeah thank

171
00:16:17,990 --> 00:16:14,560
you

172
00:16:21,430 --> 00:16:18,000
uh and next mr uh frank davina from the

173
00:16:21,990 --> 00:16:21,440
esa the european space agency good uh

174
00:16:24,629 --> 00:16:22,000
morning good

175
00:16:25,670 --> 00:16:24,639
afternoon everybody uh frank duin i'm

176
00:16:28,150 --> 00:16:25,680
currently the

177
00:16:29,910 --> 00:16:28,160
iss program manager for isa for the

178
00:16:32,150 --> 00:16:29,920
international space station

179
00:16:33,910 --> 00:16:32,160
uh i had the pleasure uh to fly to the

180
00:16:37,189 --> 00:16:33,920
iss myself twice

181
00:16:40,550 --> 00:16:37,199
uh once in 2012 once in 2009

182
00:16:42,710 --> 00:16:40,560
uh my role today is uh or the here is

183
00:16:44,069 --> 00:16:42,720
to be the lead of the isa team here uh

184
00:16:45,509 --> 00:16:44,079
for the launch and uh

185
00:16:47,430 --> 00:16:45,519
launch preparations and the launch

186
00:16:50,230 --> 00:16:47,440
support and i will be in the

187
00:16:51,590 --> 00:16:50,240
lcc the launch control center for the

188
00:16:53,110 --> 00:16:51,600

launch of course i would have preferred

189
00:16:55,110 --> 00:16:53,120
to be up in the rocket

190
00:16:57,189 --> 00:16:55,120
uh i proposed it to tomah when he

191
00:16:58,710 --> 00:16:57,199
arrived here five days ago but he was

192
00:17:01,990 --> 00:16:58,720
not ready to switch places

193
00:17:04,150 --> 00:17:02,000
uh unfortunately but uh so yes

194
00:17:06,309 --> 00:17:04,160
excited to be here and excited to look

195
00:17:08,789 --> 00:17:06,319
forward to the launch on uh on friday

196
00:17:09,750 --> 00:17:08,799
awesome welcome and next up we have

197
00:17:11,990 --> 00:17:09,760
astronaut uh

198
00:17:13,590 --> 00:17:12,000
tracy calval dyson or did i get that

199
00:17:13,829 --> 00:17:13,600
right or did i get backwards no you got

200
00:17:15,669 --> 00:17:13,839
it

201
00:17:17,110 --> 00:17:15,679
perfect okay thanks sorry that went uh

202
00:17:18,230 --> 00:17:17,120
fuzzy in my brain but uh thanks for

203
00:17:19,189 --> 00:17:18,240
being here if you're if you're not

204
00:17:20,949 --> 00:17:19,199
familiar tracy

205
00:17:22,470 --> 00:17:20,959
uh will be here on friday morning as

206
00:17:23,909 --> 00:17:22,480
well she'll be helping to co-host

207
00:17:25,590 --> 00:17:23,919
our launch broadcast coverage beginning

208
00:17:27,510 --> 00:17:25,600
at 1 30 a.m eastern time so

209
00:17:29,909 --> 00:17:27,520
tracy welcome thank you very much yes

210
00:17:33,350 --> 00:17:29,919
i'm very excited to uh to join the

211
00:17:34,070 --> 00:17:33,360
broadcast team on launch day at uh back

212
00:17:36,310 --> 00:17:34,080
in houston

213
00:17:38,230 --> 00:17:36,320

um i am an active astronaut an

214
00:17:40,070 --> 00:17:38,240
experienced one i've flown both on

215
00:17:42,870 --> 00:17:40,080
shuttle and on station

216
00:17:43,669 --> 00:17:42,880
through a russian soyuz rocket and

217
00:17:46,549 --> 00:17:43,679
capsule

218
00:17:49,270 --> 00:17:46,559
and with that affords me a lot of uh

219
00:17:51,430 --> 00:17:49,280
experience uh from from space and living

220
00:17:52,710 --> 00:17:51,440
and living there and so i put a lot of

221
00:17:54,950 --> 00:17:52,720
that to use uh

222
00:17:57,110 --> 00:17:54,960
uh back at johnson space center in

223
00:17:59,110 --> 00:17:57,120
training other astronauts as well as

224
00:18:00,310 --> 00:17:59,120
uh supporting the missions that are

225
00:18:01,510 --> 00:18:00,320
ongoing and that's exactly what i'm

226
00:18:04,150 --> 00:18:01,520
doing here today and

227
00:18:05,590 --> 00:18:04,160
i'll just add that it's um it's very

228
00:18:07,190 --> 00:18:05,600
surreal being here right now

229
00:18:09,110 --> 00:18:07,200
i can't remember the last time i was at

230
00:18:10,870 --> 00:18:09,120
kennedy space center for a launch it was

231
00:18:13,350 --> 00:18:10,880
not my own it was um

232
00:18:14,150 --> 00:18:13,360
as support uh as a as a c-squared we

233
00:18:16,070 --> 00:18:14,160
called it a

234
00:18:17,350 --> 00:18:16,080
caped crusader one of the astronaut

235
00:18:20,070 --> 00:18:17,360
support personnel

236
00:18:21,750 --> 00:18:20,080
but uh nevertheless um walking around in

237
00:18:22,150 --> 00:18:21,760
anticipation of seeing a launch from

238
00:18:24,150 --> 00:18:22,160

here

239
00:18:27,350 --> 00:18:24,160
uh just brings back some great memories

240
00:18:28,950 --> 00:18:27,360
and some uh some excitement so uh

241
00:18:31,110 --> 00:18:28,960
excited to be here hey while you're

242
00:18:31,590 --> 00:18:31,120
there uh haley ray age nine wants to

243
00:18:33,669 --> 00:18:31,600
know

244
00:18:35,029 --> 00:18:33,679
uh what did you do in your free time on

245
00:18:37,029 --> 00:18:35,039
the international space station

246
00:18:39,430 --> 00:18:37,039
oh goodness there's not much free time

247
00:18:42,470 --> 00:18:39,440
on the international space station but

248
00:18:44,630 --> 00:18:42,480
i'll tell you any time i had uh just to

249
00:18:46,789 --> 00:18:44,640
nestle myself in that cupola that's

250
00:18:47,270 --> 00:18:46,799
exactly where i was uh gazing down at

251
00:18:49,430 --> 00:18:47,280
this

252
00:18:50,470 --> 00:18:49,440
beautiful planet and uh thanking god

253
00:18:51,430 --> 00:18:50,480
that i was there

254
00:18:53,430 --> 00:18:51,440
yeah for those that aren't familiar with

255
00:18:54,070 --> 00:18:53,440
the cupola i think it's a seven window

256
00:18:56,390 --> 00:18:54,080
kind of dome

257
00:18:58,549 --> 00:18:56,400
structure like a bay window it's got six

258
00:19:00,630 --> 00:18:58,559
windows along the uh perimeter and one

259
00:19:03,430 --> 00:19:00,640
very large one on the top which

260
00:19:05,590 --> 00:19:03,440
in um most days the station is oriented

261
00:19:07,430 --> 00:19:05,600
with the cupola facing the earth and so

262
00:19:09,110 --> 00:19:07,440
um you're basically on a glass-bottom

263
00:19:11,270 --> 00:19:09,120

boat uh looking at the earth

264
00:19:12,310 --> 00:19:11,280
if you want to think of it that way i do

265
00:19:13,350 --> 00:19:12,320
want to think about it that way like

266
00:19:15,350 --> 00:19:13,360
that sounds amazing

267
00:19:17,029 --> 00:19:15,360
i love it all right thanks tracy and

268
00:19:18,630 --> 00:19:17,039
last but certainly not least uh jasmine

269
00:19:21,669 --> 00:19:18,640
moog belly i said that right

270
00:19:23,190 --> 00:19:21,679
you did perfect yeah uh so you are among

271
00:19:24,789 --> 00:19:23,200
our newer astronauts

272
00:19:26,549 --> 00:19:24,799
um so tell us about what you're doing

273
00:19:27,669 --> 00:19:26,559
these days and uh

274
00:19:28,710 --> 00:19:27,679
what you're looking for on launch day

275
00:19:29,750 --> 00:19:28,720
and obviously getting to fly some day

276
00:19:32,549 --> 00:19:29,760
here before too long

277
00:19:34,470 --> 00:19:32,559
yeah absolutely so uh jasmine belly as

278
00:19:37,510 --> 00:19:34,480
you said member of the newest

279
00:19:40,070 --> 00:19:37,520
uh class of astronauts the turtles

280
00:19:41,590 --> 00:19:40,080
so i'm one of the astronauts that tracy

281
00:19:43,110 --> 00:19:41,600
has helped train and

282
00:19:45,190 --> 00:19:43,120
she's been a mentor to me and spent

283
00:19:46,789 --> 00:19:45,200
hours and hours helping uh

284
00:19:48,470 --> 00:19:46,799
helping me out in the neutral buoyancy

285
00:19:50,549 --> 00:19:48,480
lab and watching hours of my video to

286
00:19:52,789 --> 00:19:50,559
give me feedback

287
00:19:54,789 --> 00:19:52,799
so uh as i said i'm the member of the

288
00:19:56,390 --> 00:19:54,799

newest class so i have not been to space

289
00:19:57,990 --> 00:19:56,400
yet like many of the people behind me

290
00:19:58,710 --> 00:19:58,000
looking forward to doing that at some

291
00:20:01,029 --> 00:19:58,720
point

292
00:20:02,149 --> 00:20:01,039
i'm very excited about watching the four

293
00:20:06,310 --> 00:20:02,159
crew

294
00:20:09,270 --> 00:20:06,320
someday to be

295
00:20:10,470 --> 00:20:09,280
in one of these rockets myself as well

296
00:20:13,190 --> 00:20:10,480
i've been working

297
00:20:14,630 --> 00:20:13,200
on exploration recently on the human

298
00:20:17,909 --> 00:20:14,640
landing system

299
00:20:19,350 --> 00:20:17,919
program and as i said i'm super excited

300
00:20:21,669 --> 00:20:19,360
to watch this launch i haven't seen one

301
00:20:22,470 --> 00:20:21,679
since 2006 when i watched a shuttle

302
00:20:24,149 --> 00:20:22,480
launch so

303
00:20:25,830 --> 00:20:24,159
it'll be really exciting awesome while

304
00:20:26,950 --> 00:20:25,840
you're there we had a question come in

305
00:20:29,270 --> 00:20:26,960
how long will the crew

306
00:20:30,549 --> 00:20:29,280
astronauts stay on board space station

307
00:20:32,630 --> 00:20:30,559
so this is a pretty standard

308
00:20:33,590 --> 00:20:32,640
we're getting into uh standard rotation

309
00:20:35,510 --> 00:20:33,600
so what does that look like for these

310
00:20:37,110 --> 00:20:35,520
astronauts yeah so this is the first

311
00:20:39,029 --> 00:20:37,120
commercial crew handover we have from

312
00:20:40,710 --> 00:20:39,039
crew one to crew two

313
00:20:42,630 --> 00:20:40,720

and they'll be on board for about six

314
00:20:44,870 --> 00:20:42,640
months as well expecting them to return

315
00:20:46,870 --> 00:20:44,880
in the fall of this year after their

316
00:20:48,870 --> 00:20:46,880
long duration mission

317
00:20:50,390 --> 00:20:48,880
and basically they'll be up there doing

318
00:20:51,750 --> 00:20:50,400
science and research and

319
00:20:53,430 --> 00:20:51,760
any maintenance that needs to be done on

320
00:20:54,950 --> 00:20:53,440
the station and all the standard things

321
00:20:56,630 --> 00:20:54,960
we do up there

322
00:20:57,669 --> 00:20:56,640
awesome thank you all right so we're

323
00:20:59,750 --> 00:20:57,679
going to keep going through questions

324
00:21:00,470 --> 00:20:59,760
here uh this one's for either mr sasaki

325
00:21:03,990 --> 00:21:00,480
and or

326
00:21:06,230 --> 00:21:04,000
mr uh davina uh the question was

327
00:21:07,669 --> 00:21:06,240
do you all plan to fly more astronauts

328
00:21:08,470 --> 00:21:07,679
with the commercial crew program in the

329
00:21:11,590 --> 00:21:08,480
future

330
00:21:13,669 --> 00:21:11,600
uh and then kind of a tag on to that um

331
00:21:14,710 --> 00:21:13,679
how is this partnership helping to kind

332
00:21:16,390 --> 00:21:14,720
of brighten

333
00:21:20,230 --> 00:21:16,400
our space exploration our space work

334
00:21:24,789 --> 00:21:22,630
uh okay uh jackson is probably to send

335
00:21:28,390 --> 00:21:24,799
astronaut to the iss so already

336
00:21:28,870 --> 00:21:28,400
assigned two members uh wakata you know

337
00:21:32,549 --> 00:21:28,880
very

338
00:21:34,549 --> 00:21:32,559

famous astronaut and uh and also we are

339
00:21:37,270 --> 00:21:34,559
now selecting the new astronaut

340
00:21:38,710 --> 00:21:37,280
for the not only the iss but also the

341
00:21:41,750 --> 00:21:38,720
moon

342
00:21:43,430 --> 00:21:41,760
and uh international uh for the

343
00:21:45,750 --> 00:21:43,440
accidents

344
00:21:47,830 --> 00:21:45,760
we can do the uh some part is very

345
00:21:48,470 --> 00:21:47,840
strong but the other part is not strong

346
00:21:51,669 --> 00:21:48,480
so

347
00:21:54,230 --> 00:21:51,679
uh we can uh

348
00:21:55,270 --> 00:21:54,240
according at coordinate and partnership

349
00:21:58,630 --> 00:21:55,280
supports our

350
00:22:02,070 --> 00:21:58,640
activities and we can get a fruitful

351
00:22:04,630 --> 00:22:02,080
result outcome to the uh at the station

352
00:22:05,909 --> 00:22:04,640
and the human space flight awesome yeah

353
00:22:08,149 --> 00:22:05,919
appreciate jackson and all the work that

354
00:22:10,549 --> 00:22:08,159
you all do with us

355
00:22:11,190 --> 00:22:10,559
yeah and so for isa as well of course uh

356
00:22:13,830 --> 00:22:11,200
we will have

357
00:22:14,710 --> 00:22:13,840
an automa sitting on on the rocket on

358
00:22:17,990 --> 00:22:14,720
friday

359
00:22:19,990 --> 00:22:18,000
but in fall as tracy just mentioned

360
00:22:21,990 --> 00:22:20,000
or jasmine there will be another crew

361
00:22:22,950 --> 00:22:22,000
coming and matthias morrow will fly on

362
00:22:25,510 --> 00:22:22,960
that crew

363
00:22:27,190 --> 00:22:25,520

and then next year about this time we

364
00:22:28,470 --> 00:22:27,200
will have samantha crystal ferretti so

365
00:22:30,390 --> 00:22:28,480
we will actually have

366
00:22:32,390 --> 00:22:30,400
three isa crew members in a row flying

367
00:22:34,070 --> 00:22:32,400
on uscv vehicles

368
00:22:36,470 --> 00:22:34,080
uh but of course we will continue with

369
00:22:38,390 --> 00:22:36,480
the iss programmer we we hope to have

370
00:22:40,870 --> 00:22:38,400
in isa we are working uh hard to get an

371
00:22:42,549 --> 00:22:40,880
extension of the iss till 2030.

372
00:22:44,230 --> 00:22:42,559
we are doing a new astronaut selection

373
00:22:47,510 --> 00:22:44,240
right now we hope to fly those

374
00:22:49,029 --> 00:22:47,520
new astronauts to the iss as well uh in

375
00:22:50,630 --> 00:22:49,039
a continuous way

376
00:22:53,029 --> 00:22:50,640
but that's not all we are also working

377
00:22:55,430 --> 00:22:53,039
with nasa and the international partners

378
00:22:57,350 --> 00:22:55,440
for further exploration uh the biggest

379
00:22:59,190 --> 00:22:57,360
step or the concrete step for us right

380
00:23:01,909 --> 00:22:59,200
now is of course the gateway

381
00:23:03,350 --> 00:23:01,919
we are partnering the gateway and uh we

382
00:23:05,669 --> 00:23:03,360
will not only fly

383
00:23:06,549 --> 00:23:05,679
crew here on the uh on the commercial

384
00:23:09,029 --> 00:23:06,559
crew but we

385
00:23:10,230 --> 00:23:09,039
also intend to fly crew on the orion

386
00:23:12,390 --> 00:23:10,240
vehicle what bob

387
00:23:13,350 --> 00:23:12,400
just mentioned we have three flights to

388
00:23:15,990 --> 00:23:13,360

the gateway

389
00:23:17,909 --> 00:23:16,000
uh that will also uh hopefully happen in

390
00:23:19,430 --> 00:23:17,919
the next 10 years from now so

391
00:23:21,110 --> 00:23:19,440
it's a great time to be a european

392
00:23:22,789 --> 00:23:21,120
astronaut i can say so if i

393
00:23:25,110 --> 00:23:22,799
could switch jobs and go back to the

394
00:23:26,789 --> 00:23:25,120
core i would be the first one to do so

395
00:23:29,029 --> 00:23:26,799
yeah very good yes and if we didn't

396
00:23:30,149 --> 00:23:29,039
mention it uh hopefully we have lots of

397
00:23:31,110 --> 00:23:30,159
friends watching from europe good

398
00:23:33,510 --> 00:23:31,120
afternoon to them

399
00:23:34,390 --> 00:23:33,520
uh our japanese friends watching uh good

400
00:23:36,310 --> 00:23:34,400
evening to them

401
00:23:37,590 --> 00:23:36,320
and as we're hearing from from nasa and

402
00:23:38,789 --> 00:23:37,600
our partners there's lots of

403
00:23:39,750 --> 00:23:38,799
opportunities around the globe to be an

404
00:23:41,110 --> 00:23:39,760
astronaut so

405
00:23:42,789 --> 00:23:41,120
uh certainly there are those that

406
00:23:43,990 --> 00:23:42,799
obviously love it and wish they could do

407
00:23:45,430 --> 00:23:44,000
more of it but certainly more

408
00:23:47,430 --> 00:23:45,440
opportunities for the future

409
00:23:48,830 --> 00:23:47,440
uh mr cabana i'm gonna ask you kind of a

410
00:23:50,070 --> 00:23:48,840
two-part question here and it's about

411
00:23:51,830 --> 00:23:50,080
reuse uh

412
00:23:53,029 --> 00:23:51,840
there was i don't think we covered uh

413
00:23:54,230 --> 00:23:53,039

the fact that there's a lot of reuse

414
00:23:56,310 --> 00:23:54,240
happening with this mission

415
00:23:58,310 --> 00:23:56,320
but somebody online asked would do we

416
00:23:59,590 --> 00:23:58,320
expect that this dragon capsule would be

417
00:24:01,830 --> 00:23:59,600
reflown for a future

418
00:24:02,710 --> 00:24:01,840
crude mission i think that's a plan and

419
00:24:04,710 --> 00:24:02,720
we'll have to

420
00:24:06,149 --> 00:24:04,720
take a look at certification how we work

421
00:24:07,510 --> 00:24:06,159
through the process

422
00:24:09,029 --> 00:24:07,520
there's a lot that has to be done

423
00:24:10,390 --> 00:24:09,039
between missions to make sure that it's

424
00:24:13,350 --> 00:24:10,400
safe to go forward

425
00:24:14,470 --> 00:24:13,360
but we will be looking at reuse again

426
00:24:16,149 --> 00:24:14,480
down the road it was a

427
00:24:18,310 --> 00:24:16,159
i got to give the team credit i mean

428
00:24:21,029 --> 00:24:18,320
they worked extremely hard

429
00:24:22,390 --> 00:24:21,039
uh this last year to certify the reuse

430
00:24:24,310 --> 00:24:22,400
of the falcon 9

431
00:24:26,070 --> 00:24:24,320
booster that wasn't something that we

432
00:24:28,950 --> 00:24:26,080
had originally planned for

433
00:24:30,630 --> 00:24:28,960
and i think the demonstration of the

434
00:24:33,590 --> 00:24:30,640
multiple flights that they've had

435
00:24:34,710 --> 00:24:33,600
the reliability of it getting there i

436
00:24:36,870 --> 00:24:34,720
think one of the neat things about

437
00:24:38,070 --> 00:24:36,880
reusability is when the vehicle comes

438
00:24:39,510 --> 00:24:38,080

back

439
00:24:41,990 --> 00:24:39,520
we found things that needed to be

440
00:24:44,950 --> 00:24:42,000
changed that we would not have seen

441
00:24:46,870 --> 00:24:44,960
had it not been had we disposed of it

442
00:24:49,110 --> 00:24:46,880
out in the ocean but having it come back

443
00:24:51,590 --> 00:24:49,120
you can find problems fix them before

444
00:24:53,190 --> 00:24:51,600
they become a serious problem so

445
00:24:55,190 --> 00:24:53,200
you know reusability brings down the

446
00:24:57,590 --> 00:24:55,200
cost of state space flight

447
00:24:59,430 --> 00:24:57,600
uh you know i always tell folks this

448
00:25:00,070 --> 00:24:59,440
isn't the first reusable spacecraft we

449
00:25:02,310 --> 00:25:00,080
had multiple

450
00:25:04,149 --> 00:25:02,320
flights on those orbiters and those

451
00:25:05,430 --> 00:25:04,159
solid rocket motor casings and those

452
00:25:07,110 --> 00:25:05,440
engines in fact

453
00:25:08,630 --> 00:25:07,120
the engines on the shuttle are what are

454
00:25:11,430 --> 00:25:08,640
going to power

455
00:25:13,350 --> 00:25:11,440
artemis one when we launch sls and orion

456
00:25:15,830 --> 00:25:13,360
later this year

457
00:25:18,149 --> 00:25:15,840
and those solid rocket motor casings uh

458
00:25:18,870 --> 00:25:18,159
the same ones that we stacked up on the

459
00:25:20,710 --> 00:25:18,880
uh

460
00:25:22,870 --> 00:25:20,720
shuttle are the same ones those same

461
00:25:23,830 --> 00:25:22,880
casings only five segments instead of

462
00:25:26,390 --> 00:25:23,840
four as we

463
00:25:28,310 --> 00:25:26,400

launch artemis so you know that's the

464
00:25:29,990 --> 00:25:28,320
goal reusability brings down costs

465
00:25:32,070 --> 00:25:30,000
and uh we learn a lot every time we get

466
00:25:33,510 --> 00:25:32,080
the hardware back too

467
00:25:35,350 --> 00:25:33,520
awesome thank you and did you did you

468
00:25:37,830 --> 00:25:35,360
cover what we're using this time

469
00:25:38,789 --> 00:25:37,840
because i want to emphasize that okay i

470
00:25:41,350 --> 00:25:38,799
just want to make sure we got it

471
00:25:42,070 --> 00:25:41,360
again so on this flight for the crew 2

472
00:25:44,390 --> 00:25:42,080
mission

473
00:25:46,390 --> 00:25:44,400
this dragon capsule that's flying is the

474
00:25:47,110 --> 00:25:46,400
same one that bob benkin and doug hurley

475
00:25:49,750 --> 00:25:47,120
flew

476
00:25:50,230 --> 00:25:49,760
last may and i think that's kind of cool

477
00:25:52,149 --> 00:25:50,240
because

478
00:25:53,669 --> 00:25:52,159
megan macarthur gets to fly in the same

479
00:25:54,390 --> 00:25:53,679
vehicle that her husband flew on same

480
00:25:56,149 --> 00:25:54,400
seat

481
00:25:58,149 --> 00:25:56,159
and there and it's uh they named it

482
00:26:00,149 --> 00:25:58,159
endeavor uh bob and doug

483
00:26:01,669 --> 00:26:00,159
and so endeavors flying again and i was

484
00:26:02,230 --> 00:26:01,679
always kind of partial to endeavor that

485
00:26:06,149 --> 00:26:02,240
was

486
00:26:09,110 --> 00:26:06,159
one of my favorites and uh and the uh

487
00:26:10,070 --> 00:26:09,120
the uh the booster uh flew on crew one

488
00:26:12,630 --> 00:26:10,080

and now it

489
00:26:13,669 --> 00:26:12,640
is uh flying again on uh on crew two

490
00:26:16,070 --> 00:26:13,679
pretty pretty cool

491
00:26:18,230 --> 00:26:16,080
very exciting stuff so thank you sir uh

492
00:26:19,830 --> 00:26:18,240
mr jerzik a couple questions for you

493
00:26:21,669 --> 00:26:19,840
um again all these kind of put people on

494
00:26:23,510 --> 00:26:21,679
the spot here uh the soyuz

495
00:26:24,710 --> 00:26:23,520
can take about three hours to launch and

496
00:26:25,990 --> 00:26:24,720
dock and

497
00:26:28,149 --> 00:26:26,000
for this mission we're looking at

498
00:26:29,110 --> 00:26:28,159
roughly 24 hours a docking time

499
00:26:31,909 --> 00:26:29,120
estimated at

500
00:26:33,750 --> 00:26:31,919
5 10 a.m on saturday uh what's the

501
00:26:36,470 --> 00:26:33,760
difference there in those times

502
00:26:38,230 --> 00:26:36,480
yeah so we've we've evolved the soyuz

503
00:26:40,630 --> 00:26:38,240
operation actually soyuz used to take

504
00:26:42,230 --> 00:26:40,640
multiple orbits in a while to dock

505
00:26:43,590 --> 00:26:42,240
and we've worked with as russians have

506
00:26:45,029 --> 00:26:43,600
evolved their capability and their

507
00:26:46,549 --> 00:26:45,039
systems and we've evolved operations

508
00:26:48,789 --> 00:26:46,559
we've been able to hone it

509
00:26:50,710 --> 00:26:48,799
so it's just um you know what uh you

510
00:26:53,510 --> 00:26:50,720
know launching and phasing with station

511
00:26:55,269 --> 00:26:53,520
and getting getting to rendezvous and

512
00:26:57,029 --> 00:26:55,279
docking and docking yeah

513
00:26:58,310 --> 00:26:57,039

awesome yeah and so people might ask the

514
00:27:01,430 --> 00:26:58,320
question why would we launch

515
00:27:03,029 --> 00:27:01,440
at 5 49 a.m and it's not by choice it's

516
00:27:04,230 --> 00:27:03,039
by this that's when we got to catch the

517
00:27:06,310 --> 00:27:04,240
space station correct and we're waiting

518
00:27:07,750 --> 00:27:06,320
for space station to come over and

519
00:27:09,350 --> 00:27:07,760
phase with them so we can most

520
00:27:10,630 --> 00:27:09,360
efficiently and effectively get to

521
00:27:12,630 --> 00:27:10,640
rendezvous and docking

522
00:27:14,310 --> 00:27:12,640
bob so i haven't checked yet but i got

523
00:27:15,990 --> 00:27:14,320
to jump in real quick steve so because

524
00:27:19,269 --> 00:27:16,000
we're launching at that time of day

525
00:27:19,590 --> 00:27:19,279
that is right before sunrise and uh for

526
00:27:21,750 --> 00:27:19,600
uh

527
00:27:23,110 --> 00:27:21,760
all the space affection autos out there

528
00:27:24,710 --> 00:27:23,120
right before we launch

529
00:27:26,389 --> 00:27:24,720
you're gonna see the space station come

530
00:27:29,110 --> 00:27:26,399
overhead on the uh

531
00:27:30,389 --> 00:27:29,120
pretty much the same orbit as the uh uh

532
00:27:32,230 --> 00:27:30,399
falcon launches to

533
00:27:33,990 --> 00:27:32,240
catch up with it so i'm hoping for

534
00:27:34,310 --> 00:27:34,000
really clear skies and being able to

535
00:27:36,950 --> 00:27:34,320
step

536
00:27:38,149 --> 00:27:36,960
out and see the iss track over it it's

537
00:27:39,430 --> 00:27:38,159
something it's awesome it's the

538
00:27:41,430 --> 00:27:39,440

brightest star in the

539
00:27:43,190 --> 00:27:41,440
sky when it comes over and i think i'm

540
00:27:44,789 --> 00:27:43,200
not sure which launcher was the second

541
00:27:45,269 --> 00:27:44,799
or third from the last shuttle launch

542
00:27:47,190 --> 00:27:45,279
was a

543
00:27:48,549 --> 00:27:47,200
pre-dawn launch and it was really cool

544
00:27:49,350 --> 00:27:48,559
to see the station go overhead it's

545
00:27:51,590 --> 00:27:49,360
really easy to see

546
00:27:53,430 --> 00:27:51,600
and then launch and of course you know

547
00:27:55,029 --> 00:27:53,440
any pre-dawn or night launch is simply

548
00:27:56,470 --> 00:27:55,039
amazing and for shuttle it was just

549
00:27:58,630 --> 00:27:56,480
incredible i think i was a crossover at

550
00:28:00,070 --> 00:27:58,640
banana creek watching that shuttle fight

551
00:28:01,029 --> 00:28:00,080
and the pre-dawn launches are just

552
00:28:03,110 --> 00:28:01,039
amazing

553
00:28:04,149 --> 00:28:03,120
yeah so if you're in the area uh please

554
00:28:05,909 --> 00:28:04,159
make sure you step outside

555
00:28:07,350 --> 00:28:05,919
most anywhere in florida on a clear

556
00:28:08,789 --> 00:28:07,360
night you can see a night launch taking

557
00:28:10,630 --> 00:28:08,799
place so hope you'll see that

558
00:28:11,909 --> 00:28:10,640
and josh you'll correct me if i get this

559
00:28:15,350 --> 00:28:11,919
wrong but i think it's uh

560
00:28:18,389 --> 00:28:15,360
nasa.gov forward slash spot the station

561
00:28:21,510 --> 00:28:18,399
and it will take you to you just you

562
00:28:23,990 --> 00:28:21,520
you can put in any destination but um

563
00:28:25,590 --> 00:28:24,000

if you uh plug in uh cape canaveral

564
00:28:27,269 --> 00:28:25,600
you'll get the times and all the other

565
00:28:29,110 --> 00:28:27,279
information for where to look in the sky

566
00:28:30,870 --> 00:28:29,120
and some really cool apps a really cool

567
00:28:32,310 --> 00:28:30,880
app that will

568
00:28:33,990 --> 00:28:32,320
give you a reminder of when the next

569
00:28:35,590 --> 00:28:34,000
pass will be in your area yeah if you

570
00:28:35,990 --> 00:28:35,600
search for spot the station nasa you'll

571
00:28:37,750 --> 00:28:36,000
find it

572
00:28:40,310 --> 00:28:37,760
i'm not sure if it's nasa.gov slash spot

573
00:28:41,269 --> 00:28:40,320
the station or spot the station.nasa.gov

574
00:28:42,950 --> 00:28:41,279
it's one of those

575
00:28:44,389 --> 00:28:42,960
uh but that's yeah and you can pro you

576
00:28:45,750 --> 00:28:44,399
can actually set up text alerts

577
00:28:47,269 --> 00:28:45,760
so they'll text you and tell you hey the

578
00:28:48,710 --> 00:28:47,279
station's going to be visible we'll tell

579
00:28:49,830 --> 00:28:48,720
you where to look and what time to look

580
00:28:51,029 --> 00:28:49,840
and how long you'll be able to see it

581
00:28:52,389 --> 00:28:51,039
for so

582
00:28:54,149 --> 00:28:52,399
it's incredible to be able to see things

583
00:28:56,389 --> 00:28:54,159
in space and know we have people

584
00:28:57,990 --> 00:28:56,399
living there and have for i think almost

585
00:29:00,070 --> 00:28:58,000
22 years now

586
00:29:01,990 --> 00:29:00,080
we're coming up on 22. yeah well it was

587
00:29:04,149 --> 00:29:02,000
uh november of 2000

588
00:29:05,350 --> 00:29:04,159

when uh you would know something about

589
00:29:07,430 --> 00:29:05,360
that i think no no my

590
00:29:09,110 --> 00:29:07,440
mind was prior to that but when we sent

591
00:29:10,870 --> 00:29:09,120
crew up was november 2000

592
00:29:13,669 --> 00:29:10,880
and of course that was yuri godzinko

593
00:29:15,909 --> 00:29:13,679
bill shepherd and sergey krikalov

594
00:29:16,710 --> 00:29:15,919
first crew on the iss to actually live

595
00:29:19,510 --> 00:29:16,720
on it

596
00:29:20,310 --> 00:29:19,520
um but i gotta these two need to comment

597
00:29:21,510 --> 00:29:20,320
on this

598
00:29:23,909 --> 00:29:21,520
when these guys get up there they're

599
00:29:24,710 --> 00:29:23,919
gonna have 11 people on on the space

600
00:29:26,549 --> 00:29:24,720
station

601
00:29:27,750 --> 00:29:26,559
you know tracy you've been up there what

602
00:29:29,430 --> 00:29:27,760
what's it going to be like with 11

603
00:29:31,510 --> 00:29:29,440
people on iss

604
00:29:33,669 --> 00:29:31,520
so as some context here it's no please

605
00:29:35,830 --> 00:29:33,679
it's it's the size of a football field

606
00:29:37,190 --> 00:29:35,840
but the living space is i think i've

607
00:29:39,750 --> 00:29:37,200
heard roughly like a four

608
00:29:40,470 --> 00:29:39,760
or five bedroom house yeah and so it's

609
00:29:42,789 --> 00:29:40,480
not

610
00:29:44,389 --> 00:29:42,799
enormous inside it's it's spacious but

611
00:29:47,430 --> 00:29:44,399
11 people is a lot of people

612
00:29:47,830 --> 00:29:47,440
yeah it's cozy and um when when we used

613
00:29:50,549 --> 00:29:47,840

to have

614
00:29:52,230 --> 00:29:50,559
uh two two soyuz crews so that's six

615
00:29:53,990 --> 00:29:52,240
people plus a full complement on a

616
00:29:57,190 --> 00:29:54,000
shuttle that would be 13. so we've seen

617
00:29:59,669 --> 00:29:57,200
this before but this is going to be

618
00:30:01,590 --> 00:29:59,679
rather cozy with so many folks actually

619
00:30:03,590 --> 00:30:01,600
living on the station on the shuttle

620
00:30:05,269 --> 00:30:03,600
uh the shuttle crews would most they

621
00:30:08,470 --> 00:30:05,279
would live inside the shuttle

622
00:30:11,110 --> 00:30:08,480
um and uh and be sleeping inside

623
00:30:11,990 --> 00:30:11,120
the mid deck but uh today now that we're

624
00:30:13,430 --> 00:30:12,000
gonna have uh

625
00:30:15,350 --> 00:30:13,440
dragons up there the capsules are too

626
00:30:17,110 --> 00:30:15,360
small uh there may be one crew member

627
00:30:18,470 --> 00:30:17,120
inside that capsule for now but for the

628
00:30:20,710 --> 00:30:18,480
rest of the folks they're gonna be

629
00:30:22,070 --> 00:30:20,720
living and sleeping inside the space

630
00:30:23,750 --> 00:30:22,080
station we don't even have enough

631
00:30:24,470 --> 00:30:23,760
bedrooms for all of them and so they'll

632
00:30:27,510 --> 00:30:24,480
be

633
00:30:29,909 --> 00:30:27,520
camping out on rack fronts but uh

634
00:30:31,269 --> 00:30:29,919
the um i would say that the the thing to

635
00:30:32,870 --> 00:30:31,279
keep in mind though about the space

636
00:30:35,029 --> 00:30:32,880
station is though it's the volume

637
00:30:37,590 --> 00:30:35,039
roughly about a five bedroom house you

638
00:30:39,350 --> 00:30:37,600

have um you have the entire volume

639
00:30:40,950 --> 00:30:39,360
whereas you can flip upside down and be

640
00:30:42,630 --> 00:30:40,960
walking on a different surface and so it

641
00:30:45,510 --> 00:30:42,640
may seem a little roomier

642
00:30:46,870 --> 00:30:45,520
uh but not a whole lot more and and i

643
00:30:47,990 --> 00:30:46,880
hear mr davina you have

644
00:30:49,269 --> 00:30:48,000
some comments on this as well i'd love

645
00:30:50,230 --> 00:30:49,279
to hear that and we also had a question

646
00:30:52,950 --> 00:30:50,240
come in

647
00:30:55,510 --> 00:30:52,960
and the question was what was it like

648
00:30:58,630 --> 00:30:55,520
being in space for the first time

649
00:31:01,029 --> 00:30:58,640
so yes it can get cozy up there i think

650
00:31:02,310 --> 00:31:01,039
the dining table or at the space station

651
00:31:04,870 --> 00:31:02,320
is about the size of

652
00:31:06,549 --> 00:31:04,880
this black here so uh one and a half by

653
00:31:07,269 --> 00:31:06,559
one and a half meter or something like

654
00:31:09,350 --> 00:31:07,279
that and

655
00:31:10,789 --> 00:31:09,360
i have very nice pictures exactly like

656
00:31:12,870 --> 00:31:10,799
tracy said with uh

657
00:31:14,710 --> 00:31:12,880
the seven people from the shuttle and

658
00:31:17,830 --> 00:31:14,720
the six people from iss so

659
00:31:19,029 --> 00:31:17,840
13 people around this small table but

660
00:31:21,269 --> 00:31:19,039
then indeed you can

661
00:31:22,630 --> 00:31:21,279
look from the top and you can hang under

662
00:31:24,310 --> 00:31:22,640
the bottom so it's uh

663
00:31:26,149 --> 00:31:24,320

you can use the third dimension so that

664
00:31:28,310 --> 00:31:26,159
makes it a little bit more uh

665
00:31:30,149 --> 00:31:28,320
uh feasible and of course yeah my first

666
00:31:30,950 --> 00:31:30,159
flight i think it's a little bit the

667
00:31:33,430 --> 00:31:30,960
same

668
00:31:33,990 --> 00:31:33,440
like any astronaut it might sound cliche

669
00:31:35,830 --> 00:31:34,000
but

670
00:31:38,230 --> 00:31:35,840
looking down and seeing this amazing

671
00:31:40,950 --> 00:31:38,240
planet uh from up there is uh

672
00:31:43,110 --> 00:31:40,960
is really great how beautiful this is

673
00:31:45,750 --> 00:31:43,120
but now also linking to to earth day

674
00:31:47,830 --> 00:31:45,760
how how vulnerable our planet really is

675
00:31:50,070 --> 00:31:47,840
and we really need to take care of

676
00:31:51,590 --> 00:31:50,080
because today this is still the only

677
00:31:53,269 --> 00:31:51,600
place that we have to live

678
00:31:55,669 --> 00:31:53,279
there is not something else where we can

679
00:31:56,710 --> 00:31:55,679
go uh very quickly so we need to take

680
00:31:59,190 --> 00:31:56,720
care of

681
00:32:00,789 --> 00:31:59,200
this planet uh very well and the second

682
00:32:02,310 --> 00:32:00,799
thing that i noticed okay this was a

683
00:32:03,909 --> 00:32:02,320
little bit later already but

684
00:32:05,909 --> 00:32:03,919
still i was trying to see where is

685
00:32:06,549 --> 00:32:05,919
belgium where is germany cologne because

686
00:32:08,630 --> 00:32:06,559
my home base

687
00:32:10,470 --> 00:32:08,640
is in cologne and you don't see any

688
00:32:12,870 --> 00:32:10,480

borders from space

689
00:32:15,029 --> 00:32:12,880
it's impossible to see so flying from

690
00:32:16,630 --> 00:32:15,039
belgium to to germany to poland to

691
00:32:18,710 --> 00:32:16,640
ukraine to russia

692
00:32:20,870 --> 00:32:18,720
there are no borders and uh we all know

693
00:32:23,509 --> 00:32:20,880
in in which state the world is today

694
00:32:25,350 --> 00:32:23,519
uh unfortunately and uh and so i wish

695
00:32:27,029 --> 00:32:25,360
that maybe some more people could see

696
00:32:30,149 --> 00:32:27,039
our planet from above and see that we

697
00:32:33,110 --> 00:32:30,159
are all one human kind living on one

698
00:32:34,389 --> 00:32:33,120
very very little tiny ball uh in the

699
00:32:36,310 --> 00:32:34,399
immense universe

700
00:32:37,430 --> 00:32:36,320
yeah that's awesome thank you jasmine

701
00:32:39,750 --> 00:32:37,440
question for you came in

702
00:32:40,630 --> 00:32:39,760
uh what advice do you have for someone

703
00:32:42,310 --> 00:32:40,640
in college

704
00:32:43,669 --> 00:32:42,320
who would like to be an astronaut or

705
00:32:46,149 --> 00:32:43,679
work for nasa

706
00:32:48,149 --> 00:32:46,159
and and i'll start that by saying you

707
00:32:49,190 --> 00:32:48,159
beat a lot of odds i think in your class

708
00:32:50,549 --> 00:32:49,200
there were something like fifteen

709
00:32:52,149 --> 00:32:50,559
thousand applicants

710
00:32:54,870 --> 00:32:52,159
and i think twelve candidates were

711
00:32:57,669 --> 00:32:54,880
selected uh was it more than that tracy

712
00:33:00,389 --> 00:32:57,679
it 18 000. okay did you look at all 18

713
00:33:04,149 --> 00:33:03,190

yeah so um as you said it was extremely

714
00:33:05,909 --> 00:33:04,159
competitive and i

715
00:33:08,470 --> 00:33:05,919
still can't believe i was one of those

716
00:33:12,230 --> 00:33:08,480
12 um looking back but

717
00:33:13,669 --> 00:33:12,240
um i think the most important advice i

718
00:33:16,789 --> 00:33:13,679
can give is there

719
00:33:18,230 --> 00:33:16,799
if you look at our astronaut office

720
00:33:20,230 --> 00:33:18,240
people come from all different

721
00:33:21,990 --> 00:33:20,240
backgrounds so there's no one path and

722
00:33:22,710 --> 00:33:22,000
there's no checklist to becoming an

723
00:33:24,630 --> 00:33:22,720
astronaut

724
00:33:25,990 --> 00:33:24,640
but i think if you look at each of us

725
00:33:27,830 --> 00:33:26,000
you could say we

726
00:33:29,669 --> 00:33:27,840
did something that we were passionate

727
00:33:32,310 --> 00:33:29,679
about and

728
00:33:33,990 --> 00:33:32,320
we did our best to excel in that field

729
00:33:34,710 --> 00:33:34,000
because as an astronaut you end up

730
00:33:36,230 --> 00:33:34,720
needing to know

731
00:33:37,990 --> 00:33:36,240
a little bit of everything you know i've

732
00:33:39,750 --> 00:33:38,000
had to learn geology since being here

733
00:33:41,590 --> 00:33:39,760
i've had to learn about medicine i've

734
00:33:42,230 --> 00:33:41,600
had to learn about maintaining the

735
00:33:43,830 --> 00:33:42,240
vehicle

736
00:33:45,350 --> 00:33:43,840
and and all these things which are not

737
00:33:46,310 --> 00:33:45,360
you know i'm at helicopter pilot and

738
00:33:50,070 --> 00:33:46,320

test pot

739
00:33:51,909 --> 00:33:50,080
so that's not my background but just um

740
00:33:53,430 --> 00:33:51,919
you know picking something that you

741
00:33:55,269 --> 00:33:53,440
really love and

742
00:33:56,789 --> 00:33:55,279
and because of that you will be

743
00:33:57,430 --> 00:33:56,799
passionate about it and you will excel

744
00:33:58,870 --> 00:33:57,440
in it

745
00:34:00,710 --> 00:33:58,880
we you know we have generally picked

746
00:34:03,029 --> 00:34:00,720
people from scientific

747
00:34:04,710 --> 00:34:03,039
uh stem fields you know engineering

748
00:34:07,110 --> 00:34:04,720
mathematics those fields

749
00:34:08,550 --> 00:34:07,120
um but i think just do what you love is

750
00:34:09,430 --> 00:34:08,560
is the most important advice i could

751
00:34:10,790 --> 00:34:09,440
give

752
00:34:11,909 --> 00:34:10,800
one of the things that i'll this is my

753
00:34:13,190 --> 00:34:11,919
own question kind of for you and i've

754
00:34:15,349 --> 00:34:13,200
heard this talked about

755
00:34:16,629 --> 00:34:15,359
people think that astronauts have to be

756
00:34:18,069 --> 00:34:16,639
these incredible leaders and i think

757
00:34:19,829 --> 00:34:18,079
that's probably true

758
00:34:21,669 --> 00:34:19,839
but i almost as quickly hear astronauts

759
00:34:22,550 --> 00:34:21,679
say you need to be a team follower as

760
00:34:24,550 --> 00:34:22,560
well

761
00:34:26,629 --> 00:34:24,560
can you speak to that and how critical

762
00:34:29,669 --> 00:34:26,639
that is a lesson for all of us

763
00:34:30,950 --> 00:34:29,679

yeah absolutely and and you know my

764
00:34:33,030 --> 00:34:30,960
background in the marine corps

765
00:34:34,069 --> 00:34:33,040
i feel like i learned it set me up very

766
00:34:37,109 --> 00:34:34,079
well for success

767
00:34:40,550 --> 00:34:37,119
here and i i think really you need to be

768
00:34:43,349 --> 00:34:40,560
able to be a good follower to be

769
00:34:45,190 --> 00:34:43,359
to be a good leader because the same

770
00:34:45,909 --> 00:34:45,200
traits and the same skills you need to

771
00:34:48,230 --> 00:34:45,919
have

772
00:34:49,750 --> 00:34:48,240
carry over if you can't if you can't

773
00:34:50,550 --> 00:34:49,760
listen to someone and hear their

774
00:34:52,550 --> 00:34:50,560
perspective

775
00:34:54,230 --> 00:34:52,560
and take that into your input and and

776
00:34:55,510 --> 00:34:54,240
build your situational awareness from

777
00:34:58,870 --> 00:34:55,520
that

778
00:34:59,349 --> 00:34:58,880
you can't lead either so uh being a team

779
00:35:02,069 --> 00:34:59,359
player

780
00:35:03,030 --> 00:35:02,079
is is critical especially you talk about

781
00:35:06,870 --> 00:35:03,040
11 people

782
00:35:08,870 --> 00:35:06,880
in a five-bedroom house you know

783
00:35:11,270 --> 00:35:08,880
you have to be a team player or you're

784
00:35:12,950 --> 00:35:11,280
gonna go crazy

785
00:35:14,390 --> 00:35:12,960
yeah that's very good and like i said a

786
00:35:15,349 --> 00:35:14,400
lesson for all of us and what it takes

787
00:35:17,430 --> 00:35:15,359
to get there

788
00:35:18,710 --> 00:35:17,440

um so we are about out of time for this

789
00:35:19,750 --> 00:35:18,720
morning um i want to give everybody a

790
00:35:22,150 --> 00:35:19,760
chance to kind of say

791
00:35:22,950 --> 00:35:22,160
a last word kind of uh whether it be a

792
00:35:24,790 --> 00:35:22,960
thought for

793
00:35:26,150 --> 00:35:24,800
people watching that um something that

794
00:35:28,630 --> 00:35:26,160
they should know about this mission

795
00:35:29,190 --> 00:35:28,640
or know about our work collectively um

796
00:35:31,109 --> 00:35:29,200
or just

797
00:35:32,470 --> 00:35:31,119
if you want to say hey i'm excited for

798
00:35:33,990 --> 00:35:32,480
launch we'll start here on my right and

799
00:35:37,510 --> 00:35:34,000
we'll work our way down the list here

800
00:35:39,349 --> 00:35:37,520
mr cabana i think uh

801
00:35:41,109 --> 00:35:39,359
i just want everybody to walk away

802
00:35:43,190 --> 00:35:41,119
knowing that we have an amazing space

803
00:35:45,510 --> 00:35:43,200
program we have an amazing team

804
00:35:46,470 --> 00:35:45,520
across nasa you heard about it from

805
00:35:49,270 --> 00:35:46,480
jasmine

806
00:35:50,550 --> 00:35:49,280
and everybody else and i just want to

807
00:35:52,790 --> 00:35:50,560
express my

808
00:35:54,310 --> 00:35:52,800
great pride that i have in what we do

809
00:35:56,710 --> 00:35:54,320
everybody in our nation

810
00:35:58,470 --> 00:35:56,720
needs to take pride in our space program

811
00:36:00,390 --> 00:35:58,480
we are a world leader we're a world

812
00:36:02,550 --> 00:36:00,400
leader in space

813
00:36:03,430 --> 00:36:02,560

we have to learn how to live off our

814
00:36:05,430 --> 00:36:03,440
home planet

815
00:36:07,030 --> 00:36:05,440
to explore beyond to establish a

816
00:36:08,069 --> 00:36:07,040
presence in the solar system beyond

817
00:36:09,109 --> 00:36:08,079
planet earth

818
00:36:10,630 --> 00:36:09,119
that's what we're learning on the

819
00:36:11,670 --> 00:36:10,640
international space station that's what

820
00:36:13,750 --> 00:36:11,680
we're going to learn

821
00:36:16,069 --> 00:36:13,760
when we go forward to the moon and

822
00:36:17,990 --> 00:36:16,079
establish a sustained presence there

823
00:36:20,310 --> 00:36:18,000
not just a two or three day camping trip

824
00:36:22,150 --> 00:36:20,320
that's what is going to prepare us to go

825
00:36:25,430 --> 00:36:22,160
on to mars that's our future

826
00:36:28,470 --> 00:36:25,440
i want to see us evolve and move beyond

827
00:36:31,270 --> 00:36:28,480
and uh it's all starting right now

828
00:36:32,310 --> 00:36:31,280
so remember that be safe follow all the

829
00:36:34,550 --> 00:36:32,320
culvert rules

830
00:36:36,069 --> 00:36:34,560
uh get your vaccination and uh we're

831
00:36:36,790 --> 00:36:36,079
gonna charge ahead and keep getting the

832
00:36:41,270 --> 00:36:36,800
job done

833
00:36:44,470 --> 00:36:41,280
thanks awesome thank you jasmine

834
00:36:45,349 --> 00:36:44,480
yeah i think something that um i i find

835
00:36:47,190 --> 00:36:45,359
really exciting

836
00:36:48,870 --> 00:36:47,200
about you know launching this crew to

837
00:36:50,790 --> 00:36:48,880
the international space station is

838
00:36:52,230 --> 00:36:50,800

we're not just we just don't have people

839
00:36:55,109 --> 00:36:52,240
just living up there

840
00:36:56,390 --> 00:36:55,119
they're doing uh research um and

841
00:37:00,150 --> 00:36:56,400
experiments that

842
00:37:01,990 --> 00:37:00,160
directly impact us down here and

843
00:37:04,069 --> 00:37:02,000
whether it comes to the crew looking

844
00:37:06,230 --> 00:37:04,079
back at the earth they've with the crew

845
00:37:08,710 --> 00:37:06,240
earth observation program they've taken

846
00:37:11,829 --> 00:37:08,720
millions of pictures and

847
00:37:13,990 --> 00:37:11,839
because of the trajectory of the space

848
00:37:16,230 --> 00:37:14,000
station and and its orbit

849
00:37:17,750 --> 00:37:16,240
you know we can take those images over

850
00:37:19,990 --> 00:37:17,760
time and we cover

851
00:37:21,349 --> 00:37:20,000
so much of the earth and look over them

852
00:37:25,030 --> 00:37:21,359
and say hey what can we do

853
00:37:27,430 --> 00:37:25,040
to protect our planet and you know

854
00:37:28,870 --> 00:37:27,440
as frank mentioned this is the only home

855
00:37:29,990 --> 00:37:28,880
we have right now so we need to take

856
00:37:31,430 --> 00:37:30,000
care of it i think that's really

857
00:37:34,710 --> 00:37:31,440
important and also

858
00:37:36,230 --> 00:37:34,720
the uh research they do that as you

859
00:37:38,710 --> 00:37:36,240
mentioned uh steve

860
00:37:40,470 --> 00:37:38,720
for medical purposes that uh you know

861
00:37:41,589 --> 00:37:40,480
the tissue chips experiment if

862
00:37:42,950 --> 00:37:41,599
i'm not going to talk about it now

863
00:37:43,910 --> 00:37:42,960

because we don't have much time but you

864
00:37:46,630 --> 00:37:43,920
should look it up it's

865
00:37:47,510 --> 00:37:46,640
some incredibly cool stuff that we're

866
00:37:49,430 --> 00:37:47,520
doing up there

867
00:37:50,950 --> 00:37:49,440
um and so i think that's really worth

868
00:37:53,990 --> 00:37:50,960
mentioning and i'm

869
00:37:55,990 --> 00:37:54,000
extremely excited to watch uh to watch

870
00:37:57,270 --> 00:37:56,000
shane megan aki and tomah launch into

871
00:37:59,589 --> 00:37:57,280
space

872
00:38:00,790 --> 00:37:59,599
thank you jasmine tracy uh i know we'll

873
00:38:01,270 --> 00:38:00,800
get to hear more from you on friday

874
00:38:03,190 --> 00:38:01,280
morning

875
00:38:04,790 --> 00:38:03,200
um on the launch broadcast there was a

876
00:38:07,030 --> 00:38:04,800
question about what would you

877
00:38:08,550 --> 00:38:07,040
encourage little girls with as far as

878
00:38:10,230 --> 00:38:08,560
them growing up and becoming

879
00:38:12,550 --> 00:38:10,240
engineers or involved in stem or

880
00:38:13,990 --> 00:38:12,560
astronauts what advice would you give

881
00:38:16,310 --> 00:38:14,000
what advice would i give to the little

882
00:38:18,790 --> 00:38:16,320
girls well um i would uh

883
00:38:19,750 --> 00:38:18,800
i just have to echo what jasmine said

884
00:38:22,390 --> 00:38:19,760
and that is

885
00:38:23,190 --> 00:38:22,400
find what you enjoy doing and take stock

886
00:38:25,510 --> 00:38:23,200
in that

887
00:38:26,390 --> 00:38:25,520
and whatever you do later on in life

888
00:38:27,990 --> 00:38:26,400

make sure

889
00:38:29,270 --> 00:38:28,000
that it involves those things because

890
00:38:30,790 --> 00:38:29,280
it's those things which are going to get

891
00:38:32,390 --> 00:38:30,800
you out of bed without your alarm clock

892
00:38:34,069 --> 00:38:32,400
or your mom and dad telling you

893
00:38:35,589 --> 00:38:34,079
that you need to get out and go do that

894
00:38:37,270 --> 00:38:35,599
thing and i think that

895
00:38:39,109 --> 00:38:37,280
first it's to discover what you enjoy

896
00:38:39,349 --> 00:38:39,119
doing and then it's invest your time in

897
00:38:41,109 --> 00:38:39,359
it

898
00:38:42,950 --> 00:38:41,119
and that's going to pay huge dividends

899
00:38:43,270 --> 00:38:42,960
whether you want to go into a certain

900
00:38:44,550 --> 00:38:43,280
field

901
00:38:46,390 --> 00:38:44,560
or you know you want to go into that

902
00:38:48,310 --> 00:38:46,400
field or you're still

903
00:38:50,150 --> 00:38:48,320
trying to discover where you want to be

904
00:38:51,270 --> 00:38:50,160
i think that's really the right path to

905
00:38:54,550 --> 00:38:51,280
start yourself on

906
00:38:55,190 --> 00:38:54,560
awesome thank you uh mr davina and one

907
00:38:57,190 --> 00:38:55,200
of the things

908
00:38:58,870 --> 00:38:57,200
that i know i heard you talk about this

909
00:39:01,030 --> 00:38:58,880
and i think the news briefing

910
00:39:02,710 --> 00:39:01,040
was that tomah has the opportunity to

911
00:39:03,589 --> 00:39:02,720
finish a science project a science

912
00:39:05,030 --> 00:39:03,599
research project

913
00:39:07,109 --> 00:39:05,040

that he started years ago and i think

914
00:39:08,390 --> 00:39:07,119
that's cool um and and i know jasmine

915
00:39:09,109 --> 00:39:08,400
mentioned the science as well so lots of

916
00:39:10,950 --> 00:39:09,119
science here

917
00:39:12,310 --> 00:39:10,960
that we haven't talked about today but

918
00:39:13,990 --> 00:39:12,320
incredible research happening

919
00:39:15,510 --> 00:39:14,000
yeah there is incredible research

920
00:39:17,910 --> 00:39:15,520
happening uh on station

921
00:39:19,510 --> 00:39:17,920
especially now that we have four usos

922
00:39:20,790 --> 00:39:19,520
crew members there permanently we have

923
00:39:23,750 --> 00:39:20,800
so much more time

924
00:39:25,430 --> 00:39:23,760
uh to do exciting uh science uh uh the

925
00:39:25,990 --> 00:39:25,440
experiment that thomas is going to work

926
00:39:29,030 --> 00:39:26,000
on is

927
00:39:30,470 --> 00:39:29,040
on neurology and neurology science but

928
00:39:30,950 --> 00:39:30,480
we have a lot of other cool things as

929
00:39:33,910 --> 00:39:30,960
well

930
00:39:35,270 --> 00:39:33,920
in medicine for example we are building

931
00:39:39,030 --> 00:39:35,280
protein crystals that

932
00:39:41,510 --> 00:39:39,040
are essential to understand how we build

933
00:39:43,349 --> 00:39:41,520
new medicines in the future so exciting

934
00:39:46,550 --> 00:39:43,359
time to be in the space program

935
00:39:49,349 --> 00:39:46,560
uh it's an exciting time for the

936
00:39:50,950 --> 00:39:49,359
young girls and boys in in isa in europe

937
00:39:52,550 --> 00:39:50,960
that want to become an astronaut please

938
00:39:56,630 --> 00:39:52,560

go to our website and

939
00:39:58,069 --> 00:39:56,640
apply as jasmine and tracy said

940
00:40:00,470 --> 00:39:58,079
the important thing is to believe in

941
00:40:01,990 --> 00:40:00,480
yourself to do something that you like

942
00:40:04,230 --> 00:40:02,000
and then you will automatically be good

943
00:40:06,790 --> 00:40:04,240
at it and you're looking for

944
00:40:08,390 --> 00:40:06,800
for your applications it's exciting uh

945
00:40:09,829 --> 00:40:08,400
not only to fly to the international

946
00:40:10,630 --> 00:40:09,839
space station but together with our

947
00:40:12,470 --> 00:40:10,640
colleagues from

948
00:40:14,710 --> 00:40:12,480
the international partnership jackson

949
00:40:16,870 --> 00:40:14,720
nasa canada we will go forward to the

950
00:40:18,870 --> 00:40:16,880
moon the gateway first of all and then

951
00:40:20,710 --> 00:40:18,880
eventually i'm sure that we will have

952
00:40:21,190 --> 00:40:20,720
also international astronauts not only

953
00:40:22,710 --> 00:40:21,200
flying

954
00:40:24,790 --> 00:40:22,720
on the international space station but

955
00:40:25,990 --> 00:40:24,800
we will have international astronauts on

956
00:40:28,710 --> 00:40:26,000
the surface of the moon

957
00:40:29,030 --> 00:40:28,720
so exciting times and tomorrow go fly

958
00:40:32,470 --> 00:40:29,040
yeah

959
00:40:37,349 --> 00:40:32,480
very good mr sasaki yep

960
00:40:41,910 --> 00:40:37,359
okay so i'm i'm working for the

961
00:40:45,750 --> 00:40:44,790
and uh we believe that we supported lots

962
00:40:48,710 --> 00:40:45,760
of activities

963
00:40:50,390 --> 00:40:48,720

for iss and so international partnership

964
00:40:52,870 --> 00:40:50,400
is uh

965
00:40:53,990 --> 00:40:52,880
important at the gathering the strengths

966
00:40:56,630 --> 00:40:54,000
of the

967
00:40:57,829 --> 00:40:56,640
partners and international uh

968
00:41:01,270 --> 00:40:57,839
partnership will

969
00:41:03,349 --> 00:41:01,280
become the provider much more efficiency

970
00:41:06,069 --> 00:41:03,359
and much more result

971
00:41:07,910 --> 00:41:06,079
and so we want to continue the

972
00:41:10,710 --> 00:41:07,920
international partnership

973
00:41:11,750 --> 00:41:10,720
not only to the iss but it was uh moon

974
00:41:14,790 --> 00:41:11,760
the mars

975
00:41:15,430 --> 00:41:14,800
so i want to uh go together or each

976
00:41:17,750 --> 00:41:15,440
partner

977
00:41:19,190 --> 00:41:17,760
thank you very much yes and i can speak

978
00:41:21,589 --> 00:41:19,200
from personal experience that

979
00:41:22,870 --> 00:41:21,599
the way our agency we speak about and we

980
00:41:23,750 --> 00:41:22,880
work towards the the international

981
00:41:24,710 --> 00:41:23,760
partnerships

982
00:41:26,309 --> 00:41:24,720
they are becoming more and more

983
00:41:27,750 --> 00:41:26,319
important and like you said so valuable

984
00:41:31,190 --> 00:41:27,760
for all of us

985
00:41:33,349 --> 00:41:31,200
mr jerzik hey thanks so yeah like bob

986
00:41:35,750 --> 00:41:33,359
said i could not be more proud of the

987
00:41:36,870 --> 00:41:35,760
the nasa team along with our other

988
00:41:38,870 --> 00:41:36,880

agency

989
00:41:41,190 --> 00:41:38,880
uh commercial and international partners

990
00:41:42,790 --> 00:41:41,200
for what we've been able to accomplish

991
00:41:45,349 --> 00:41:42,800
over these decades but particularly over

992
00:41:48,470 --> 00:41:45,359
this last really challenging year

993
00:41:49,349 --> 00:41:48,480
third crude flight to the iss this year

994
00:41:52,470 --> 00:41:49,359
with with crew

995
00:41:55,349 --> 00:41:52,480
with crew 2. i am looking forward to

996
00:41:57,109 --> 00:41:55,359
to launch and uh and docking and hatch

997
00:42:00,309 --> 00:41:57,119
opening and talking to the crew

998
00:42:01,670 --> 00:42:00,319
and uh hopefully hopefully on saturday

999
00:42:03,829 --> 00:42:01,680
morning right

1000
00:42:05,430 --> 00:42:03,839
and i and and and welcoming them to the

1001
00:42:06,470 --> 00:42:05,440
station and also following along with

1002
00:42:08,230 --> 00:42:06,480
all the research

1003
00:42:10,390 --> 00:42:08,240
and technology development that they're

1004
00:42:11,990 --> 00:42:10,400
going to do um

1005
00:42:13,990 --> 00:42:12,000
everything from like you said medical

1006
00:42:15,990 --> 00:42:14,000
research to earth observation

1007
00:42:18,150 --> 00:42:16,000
to developing and proving out the

1008
00:42:19,829 --> 00:42:18,160
technologies and capabilities but a need

1009
00:42:21,349 --> 00:42:19,839
for sustainable lunar presence through

1010
00:42:23,670 --> 00:42:21,359
artemis and then

1011
00:42:25,190 --> 00:42:23,680
on onto human missions to mars so i am

1012
00:42:26,630 --> 00:42:25,200
just really excited to be at the kennedy

1013
00:42:29,670 --> 00:42:26,640

space center again

1014
00:42:30,390 --> 00:42:29,680
um for the crew 2 launch and i'm looking

1015
00:42:33,750 --> 00:42:30,400
forward

1016
00:42:35,670 --> 00:42:33,760
to the crew one return next week um so

1017
00:42:36,790 --> 00:42:35,680
again just could not be more more proud

1018
00:42:39,430 --> 00:42:36,800
of the team and just a

1019
00:42:40,710 --> 00:42:39,440
an honorary privilege to to lead this uh

1020
00:42:42,390 --> 00:42:40,720
this agency thank you

1021
00:42:43,990 --> 00:42:42,400
awesome yeah i appreciate the leadership

1022
00:42:46,230 --> 00:42:44,000
and uh in closing just want to remind

1023
00:42:47,109 --> 00:42:46,240
everybody uh friday morning at 1 30 a.m

1024
00:42:49,109 --> 00:42:47,119
eastern time

1025
00:42:50,470 --> 00:42:49,119
we'll open coverage for a planned

1026
00:42:53,430 --> 00:42:50,480
liftoff of 5

1027
00:42:54,790 --> 00:42:53,440
49 a.m eastern time and like mr jersey

1028
00:42:57,430 --> 00:42:54,800
just said hopefully docking

1029
00:42:59,030 --> 00:42:57,440
and hatch open early saturday morning

1030
00:43:00,790 --> 00:42:59,040
it's an exciting time here tomorrow

1031
00:43:02,630 --> 00:43:00,800
we have a lot of earth day activities as

1032
00:43:04,950 --> 00:43:02,640
well so happy earth day tomorrow

1033
00:43:06,309 --> 00:43:04,960
check out nasa.gov for more on that and

1034
00:43:08,390 --> 00:43:06,319
thanks to all of you for joining me

1035
00:43:09,750 --> 00:43:08,400
and all of our viewers for tuning in and