



1
00:00:10,150 --> 00:00:07,909
launch command has been issued that

2
00:00:13,430 --> 00:00:10,160
second umbilical retracting the boosters

3
00:00:13,440 --> 00:00:21,910
we have preliminary booster ignition

4
00:00:25,589 --> 00:00:23,349
and liftoff

5
00:00:27,990 --> 00:00:25,599
liftoff of reid wiseman max arrive and

6
00:00:29,589 --> 00:00:28,000
alexander gerst an international crew on

7
00:00:35,350 --> 00:00:29,599
their way to the international space

8
00:00:40,069 --> 00:00:36,870
right now getting good first stage

9
00:00:42,150 --> 00:00:40,079
performance the soyuz delivering 930 000

10
00:00:44,709 --> 00:00:42,160
pounds of thrust that's four boosters

11
00:00:46,709 --> 00:00:44,719
and single core engine first stage of

12
00:00:49,110 --> 00:00:46,719
the soyuz measuring 68 feet in length

13
00:00:50,709 --> 00:00:49,120

and 24 feet in diameter burning liquid

14

00:01:03,510 --> 00:00:50,719

fuel for the first two minutes and six

15

00:01:03,520 --> 00:01:26,469

so

16

00:01:30,950 --> 00:01:28,630

now just about one minute 10 seconds

17

00:01:33,910 --> 00:01:30,960

into the flight of soyuz tma-13m

18

00:01:36,230 --> 00:01:33,920

velocity of the vehicle at 1 100 miles

19

00:01:38,630 --> 00:01:36,240

per hour

20

00:01:40,069 --> 00:01:38,640

all indications uh good for the rocket

21

00:01:52,389 --> 00:01:40,079

as it continues the first stage

22

00:01:56,630 --> 00:01:54,710

next major event will be the jettison of

23

00:02:06,550 --> 00:01:56,640

the escape tower at the very top of the

24

00:02:11,750 --> 00:02:10,309

and also be sure to watch for the

25

00:02:13,589 --> 00:02:11,760

boosters

26
00:02:22,309 --> 00:02:13,599
to break off indicating the end of the

27
00:02:25,510 --> 00:02:23,830
getting confirmation first stage

28
00:02:27,830 --> 00:02:25,520
separation you can see the four strap-on

29
00:02:29,589 --> 00:02:27,840
boosters now breaking away they have

30
00:02:31,910 --> 00:02:29,599
been jettisoned completing their job and

31
00:02:34,630 --> 00:02:31,920
they'll drop away at an altitude of 28

32
00:02:45,350 --> 00:02:34,640
statute miles soyuz craft itself now

33
00:02:49,190 --> 00:02:47,030
three crew members giving the thumbs up

34
00:02:51,509 --> 00:02:49,200
inside the core stage performing as

35
00:02:54,229 --> 00:02:51,519
expected that core engine of the soyuz

36
00:02:56,309 --> 00:02:54,239
56 feet in length 13 and a half feet in

37
00:02:59,350 --> 00:02:56,319
diameter with a single engine and four

38
00:03:02,070 --> 00:02:59,360

fuel chambers providing between 178

39

00:03:04,790 --> 00:03:02,080

thousand and 222 000 pounds of thrust

40

00:03:06,869 --> 00:03:04,800

depending on the altitude it'll fire for

41

00:03:07,990 --> 00:03:06,879

about the total of three minutes and 28

42

00:03:09,589 --> 00:03:08,000

seconds

43

00:03:11,990 --> 00:03:09,599

the stage is going to continue to burn

44

00:03:14,550 --> 00:03:12,000

until about the four minute 43 second

45

00:03:17,030 --> 00:03:14,560

mark soyuz uses what's called a hot

46

00:03:18,949 --> 00:03:17,040

staging technique so the third stage

47

00:03:21,030 --> 00:03:18,959

will ignite while the second stage is

48

00:03:23,030 --> 00:03:21,040

still burning that's why the soyuz has

49

00:03:31,190 --> 00:03:23,040

that small open area in between the

50

00:03:35,430 --> 00:03:33,110

and you saw that a bit of a jolt for

51
00:03:37,670 --> 00:03:35,440
them is that third stage cut-offs cuts

52
00:03:39,589 --> 00:03:37,680
off and separates the single liquid

53
00:03:42,630 --> 00:03:39,599
fueled engine shutting down and dropping

54
00:04:05,429 --> 00:03:42,640
away at an altitude of about 125 statute

55
00:04:05,439 --> 00:04:40,710
oh

56
00:04:40,720 --> 00:05:00,870
beautiful

57
00:05:00,880 --> 00:05:20,230
foreign

58
00:05:20,240 --> 00:05:42,469
is

59
00:05:46,150 --> 00:05:43,510
hey

60
00:05:47,029 --> 00:05:46,160
how are you good to see you thank you

61
00:05:47,830 --> 00:05:47,039
hey

62
00:06:00,309 --> 00:05:47,840
rob

63
00:06:00,319 --> 00:06:32,150

oh

64

00:06:32,160 --> 00:06:46,950

foreign

65

00:06:46,960 --> 00:07:04,070

that's a very good

66

00:07:04,080 --> 00:07:16,629

um

67

00:07:16,639 --> 00:08:00,309

okay

68

00:08:00,319 --> 00:08:38,829

foreign

69

00:08:38,839 --> 00:09:18,949

yeah um

70

00:09:18,959 --> 00:09:34,870

yes

71

00:09:34,880 --> 00:09:54,389

speech

72

00:09:54,399 --> 00:10:16,790

foreign

73

00:10:20,470 --> 00:10:18,949

all ellie

74

00:10:22,870 --> 00:10:20,480

hi katie

75

00:10:24,310 --> 00:10:22,880

hi carol

76

00:10:26,389 --> 00:10:24,320

right now

77

00:10:27,670 --> 00:10:26,399

when you're up in space

78

00:10:32,150 --> 00:10:27,680

without a doubt

79

00:10:33,509 --> 00:10:32,160

and i'll even send them to you directly

80

00:10:35,590 --> 00:10:33,519

you don't even have to go on twitter to

81

00:10:36,790 --> 00:10:35,600

find them if traffic is in our

82

00:10:39,190 --> 00:10:36,800

spacecraft

83

00:10:41,509 --> 00:10:39,200

right now and then i'll get in first

84

00:10:43,350 --> 00:10:41,519

and i'll go get in my seat and this guy

85

00:10:45,590 --> 00:10:43,360

named ilda

86

00:10:46,550 --> 00:10:45,600

a very good guy he's going to strap me

87

00:10:48,630 --> 00:10:46,560

all in

88

00:10:51,269 --> 00:10:48,640

and then he'll strap alex in

89
00:10:54,069 --> 00:10:51,279
and then when max comes down gildar will

90
00:10:55,670 --> 00:10:54,079
give max drafty a match we'll hang hang

91
00:10:57,910 --> 00:10:55,680
him up on the hatch and then we'll close

92
00:11:05,110 --> 00:10:57,920
the hatch make sure he looks just right

93
00:11:22,949 --> 00:11:09,110
i am unbelievably excited

94
00:11:25,750 --> 00:11:23,670
so

95
00:11:26,470 --> 00:11:25,760
like from texas to mississippi not very

96
00:11:39,509 --> 00:11:26,480
far

97
00:11:39,519 --> 00:11:54,389
you're all looking so fine

98
00:12:04,470 --> 00:11:55,990
those were great hugs we got good

99
00:12:04,480 --> 00:12:22,550
hi hello

100
00:12:30,230 --> 00:12:24,870
i think

101
00:12:34,870 --> 00:12:32,870
i can tell you that all these are people

102
00:12:37,990 --> 00:12:34,880
yeah

103
00:12:40,470 --> 00:12:38,000
yes i was saying that all these ideas

104
00:12:42,790 --> 00:12:40,480
all these are people is

105
00:12:45,910 --> 00:12:42,800
behind you so you you will see you will

106
00:12:54,150 --> 00:12:45,920
see the kick at that moment

107
00:12:58,150 --> 00:12:56,550
from colleagues from france so it's good

108
00:13:00,230 --> 00:12:58,160
to know that there's this huge team

109
00:13:02,150 --> 00:13:00,240
behind us and uh please

110
00:13:04,790 --> 00:13:02,160
forward my best regards to everyone at

111
00:13:07,030 --> 00:13:04,800
home and i'll give a wave during liftoff

112
00:13:12,870 --> 00:13:07,040
if the camera switches over to me for a

113
00:13:12,880 --> 00:13:30,069

i think you should pay me a little bit

114

00:13:34,550 --> 00:13:31,829

wish you all the best

115

00:13:35,990 --> 00:13:34,560

for your colleagues sdg said are behind

116

00:13:37,990 --> 00:13:36,000

you and

117

00:13:39,430 --> 00:13:38,000

we will have an eye on you throughout

118

00:13:41,509 --> 00:13:39,440

your mission and

119

00:13:42,790 --> 00:13:41,519

i would like to wish you really all the

120

00:13:43,590 --> 00:13:42,800

best

121

00:13:45,829 --> 00:13:43,600

good

122

00:13:48,470 --> 00:13:45,839

stain orbit

123

00:13:50,069 --> 00:13:48,480

as i wrote you a mess

124

00:13:53,829 --> 00:13:50,079

use every second

125

00:13:58,389 --> 00:13:53,839

half a year as you may um

126
00:14:28,829 --> 00:14:00,550
have a great time enjoy yourselves and

127
00:14:35,110 --> 00:14:32,949
um congratulate you on your readiness

128
00:14:38,389 --> 00:14:35,120
to launch

129
00:14:40,629 --> 00:14:38,399
everything is nominal i've just checked

130
00:14:48,870 --> 00:14:40,639
we will be waiting for you back here on

131
00:14:52,470 --> 00:14:50,870
yes of course we're a little bit nervous

132
00:14:53,829 --> 00:14:52,480
but this is normal

133
00:14:56,870 --> 00:14:53,839
this is just

134
00:14:58,870 --> 00:14:56,880
the kind of nervousness that is not fear

135
00:15:01,670 --> 00:14:58,880
but rather

136
00:15:02,870 --> 00:15:01,680
the anticipation

137
00:15:16,150 --> 00:15:02,880
everything

138
00:15:16,160 --> 00:15:38,790

oh

139

00:15:38,800 --> 00:15:46,949

thanks

140

00:16:23,269 --> 00:16:16,150

foreign

141

00:16:23,279 --> 00:17:02,389

wow

142

00:17:02,399 --> 00:17:57,990

followed

143

00:17:58,000 --> 00:18:09,029

thank you

144

00:18:09,039 --> 00:18:44,630

all the best

145

00:18:44,640 --> 00:19:13,190

um

146

00:19:18,150 --> 00:19:15,590

dan hartman deputy iss program manager

147

00:19:20,789 --> 00:19:18,160

dan a thunderous start to expedition 40

148

00:19:23,029 --> 00:19:20,799

and 41. uh your thoughts as you watched

149

00:19:24,870 --> 00:19:23,039

the soyuz take flight today yeah rob's

150

00:19:26,150 --> 00:19:24,880

spectacular launch you could see it for

151
00:19:27,590 --> 00:19:26,160
a long way

152
00:19:29,350 --> 00:19:27,600
four minutes into flight you could hear

153
00:19:30,789 --> 00:19:29,360
still hear the engines rumbling it's on

154
00:19:32,230 --> 00:19:30,799
a high speed chase to catch up with the

155
00:19:35,830 --> 00:19:32,240
space station

156
00:19:37,909 --> 00:19:35,840
already been maneuvered into position

157
00:19:40,390 --> 00:19:37,919
for for docking and so we're well

158
00:19:42,950 --> 00:19:40,400
underway to get this expedition going

159
00:19:45,909 --> 00:19:42,960
once this crew arrives on board a

160
00:19:47,830 --> 00:19:45,919
challenging six months lies ahead uh how

161
00:19:49,590 --> 00:19:47,840
complex will this be and how critical is

162
00:19:51,190 --> 00:19:49,600
this mission for the station program

163
00:19:53,430 --> 00:19:51,200

critical rob we've got a lot of research

164

00:19:55,110 --> 00:19:53,440

that we need to do that will be flying

165

00:19:56,390 --> 00:19:55,120

up some new and exciting research

166

00:19:58,710 --> 00:19:56,400

research that we haven't performed on

167

00:20:01,350 --> 00:19:58,720

the iss before we have several evas

168

00:20:03,270 --> 00:20:01,360

lined up uh in the august time period

169

00:20:05,029 --> 00:20:03,280

sandwiched with a couple of russian ebas

170

00:20:07,590 --> 00:20:05,039

before that so the crew is going to be

171

00:20:09,190 --> 00:20:07,600

very very busy uh we'll we'll pace them

172

00:20:10,789 --> 00:20:09,200

make sure they have uh

173

00:20:12,390 --> 00:20:10,799

ample time to do the things they need

174

00:20:13,190 --> 00:20:12,400

but it's going to be an exciting mission

175

00:20:15,350 --> 00:20:13,200

for them

176

00:20:17,190 --> 00:20:15,360

a couple of days ago this rocket was

177

00:20:18,950 --> 00:20:17,200

horizontal on a rail car headed for the

178

00:20:22,310 --> 00:20:18,960

launch pad now it's headed for the space

179

00:20:24,789 --> 00:20:22,320

station how remarkable has this whole

180

00:20:26,310 --> 00:20:24,799

experience been to watch this vehicle

181

00:20:28,630 --> 00:20:26,320

come to life as you know we were there

182

00:20:30,630 --> 00:20:28,640

for the road it's simply uh spectacular

183

00:20:32,710 --> 00:20:30,640

to watch the russians go through this

184

00:20:34,390 --> 00:20:32,720

process of of bringing it out of the

185

00:20:35,830 --> 00:20:34,400

hangar rolling it on the rail cars

186

00:20:37,350 --> 00:20:35,840

bringing it upright

187

00:20:38,630 --> 00:20:37,360

preparing the rocket going through the

188

00:20:39,909 --> 00:20:38,640

crew commission

189

00:20:42,390 --> 00:20:39,919

reports

190

00:20:44,789 --> 00:20:42,400

it's just a phenomenal flow they do a

191

00:20:47,990 --> 00:20:44,799

magnificent job and i congratulate them

192

00:20:50,870 --> 00:20:49,669

bill gerstenmaier nasa's associate

193

00:20:52,710 --> 00:20:50,880

administrator for space flight

194

00:20:55,669 --> 00:20:52,720

operations bill um

195

00:20:57,430 --> 00:20:55,679

the soyuz on its way uh an amazing start

196

00:20:59,350 --> 00:20:57,440

to what will be a complicated mission

197

00:21:00,710 --> 00:20:59,360

what were your thoughts as it soared

198

00:21:03,750 --> 00:21:00,720

through the night sky heading for the

199

00:21:05,750 --> 00:21:03,760

station i mean just a another amazing

200

00:21:07,430 --> 00:21:05,760

launch and when i look at the rocket i

201
00:21:09,110 --> 00:21:07,440
just think of all the people that have

202
00:21:11,029 --> 00:21:09,120
come together around the world to make

203
00:21:13,270 --> 00:21:11,039
this flight happen and i think of the

204
00:21:14,789 --> 00:21:13,280
trainers back in houston that have have

205
00:21:16,470 --> 00:21:14,799
trained the crews to get ready to go on

206
00:21:18,070 --> 00:21:16,480
board the space station i think of all

207
00:21:20,789 --> 00:21:18,080
the workers here at baikonur that have

208
00:21:23,350 --> 00:21:20,799
prepared the spacecraft so it's just a

209
00:21:25,190 --> 00:21:23,360
tremendous feat when when i see all that

210
00:21:27,430 --> 00:21:25,200
teamwork all those people around the

211
00:21:29,110 --> 00:21:27,440
world coming together to actually put

212
00:21:31,110 --> 00:21:29,120
together this launch that we just got to

213
00:21:32,390 --> 00:21:31,120

witness here in baikonur another

214

00:21:34,710 --> 00:21:32,400

testimony to the strength of the

215

00:21:36,710 --> 00:21:34,720

partnership how

216

00:21:39,510 --> 00:21:36,720

how important is all of this as this

217

00:21:41,510 --> 00:21:39,520

crew embarks on a complex expedition

218

00:21:43,190 --> 00:21:41,520

yeah again i look at this crew and i

219

00:21:45,750 --> 00:21:43,200

can't think of a better crew with

220

00:21:48,470 --> 00:21:45,760

alexander gerst from germany and

221

00:21:50,549 --> 00:21:48,480

and max from russia and uh reed from the

222

00:21:53,669 --> 00:21:50,559

u.s just what a what a tremendous crew

223

00:21:55,909 --> 00:21:53,679

this is i i see them bond together and

224

00:21:57,510 --> 00:21:55,919

and really work together as i don't see

225

00:21:59,430 --> 00:21:57,520

normal teams come together and they've

226

00:22:01,270 --> 00:21:59,440

done a really good job and they're just

227

00:22:02,789 --> 00:22:01,280

an excellent model for all of us on the

228

00:22:04,710 --> 00:22:02,799

ground and all of us here in the control

229

00:22:07,110 --> 00:22:04,720

centers around the world so if we can

230

00:22:09,590 --> 00:22:07,120

mimic their spirit of cooperation and

231

00:22:10,789 --> 00:22:09,600

their teamwork it'll be just awesome so

232

00:22:13,110 --> 00:22:10,799

again i'm looking forward to a

233

00:22:14,710 --> 00:22:13,120

tremendous expedition what a great start

234

00:22:16,710 --> 00:22:14,720

tonight i can hardly wait to see this

235

00:22:18,070 --> 00:22:16,720

expedition get started and and we'll get

236

00:22:20,470 --> 00:22:18,080

maybe get to see a docking here in a

237

00:22:22,310 --> 00:22:20,480

couple hours so it'll be great

238

00:22:23,990 --> 00:22:22,320

bill uh the launch comes on the fifth

239

00:22:27,350 --> 00:22:24,000

anniversary of the inauguration of a

240

00:22:28,630 --> 00:22:27,360

six-person crew on board the station uh

241

00:22:32,870 --> 00:22:28,640

how

242

00:22:35,590 --> 00:22:32,880

sustenance of the station with this kind

243

00:22:38,390 --> 00:22:35,600

of continuous human presence

244

00:22:39,830 --> 00:22:38,400

yeah it kind of

245

00:22:42,149 --> 00:22:39,840

makes me think a little bit when we

246

00:22:43,750 --> 00:22:42,159

first launched the first six-person crew

247

00:22:45,990 --> 00:22:43,760

you know mike suffordini and i talked

248

00:22:47,909 --> 00:22:46,000

about whether we could really do this

249

00:22:49,750 --> 00:22:47,919

and we weren't sure from a resupply

250

00:22:51,990 --> 00:22:49,760

standpoint would we have enough supplies

251
00:22:53,430 --> 00:22:52,000
and consumables and everything we needed

252
00:22:55,510 --> 00:22:53,440
for the crew to actually make it through

253
00:22:57,830 --> 00:22:55,520
the six-person increment and to think

254
00:23:00,230 --> 00:22:57,840
now here we are five years later is just

255
00:23:02,630 --> 00:23:00,240
a phenomenal again testimony to the team

256
00:23:04,149 --> 00:23:02,640
that that works so hard to make you know

257
00:23:05,590 --> 00:23:04,159
what little simple things but to make

258
00:23:07,350 --> 00:23:05,600
sure the food is there we've got the

259
00:23:09,110 --> 00:23:07,360
right things on the right cargo vehicles

260
00:23:11,190 --> 00:23:09,120
is just a tremendous effort by all the

261
00:23:13,270 --> 00:23:11,200
folks involved to keep the space station

262
00:23:18,789 --> 00:23:13,280
operating flying and doing world-class

263
00:23:22,710 --> 00:23:20,230

you've seen many launches but they're

264

00:23:25,190 --> 00:23:22,720

always fantastic

265

00:23:26,070 --> 00:23:25,200

the emotion is always the same or even

266

00:23:27,430 --> 00:23:26,080

maybe

267

00:23:29,990 --> 00:23:27,440

it's more and more

268

00:23:31,750 --> 00:23:30,000

and especially that one was so beautiful

269

00:23:33,350 --> 00:23:31,760

i must say that we have seen the

270

00:23:36,390 --> 00:23:33,360

launcher almost

271

00:23:39,029 --> 00:23:36,400

until the ignition of the surf stage and

272

00:23:41,510 --> 00:23:39,039

that was a fantastic emotion and

273

00:23:42,950 --> 00:23:41,520

to have a colleague going up there i

274

00:23:44,149 --> 00:23:42,960

think that

275

00:23:45,830 --> 00:23:44,159

it's always

276

00:23:47,830 --> 00:23:45,840

something fantastic

277

00:23:50,070 --> 00:23:47,840

for either it looks like a golden age

278

00:23:52,390 --> 00:23:50,080

we've got an astronaut which came back

279

00:23:54,710 --> 00:23:52,400

recently this one now and then another

280

00:23:57,029 --> 00:23:54,720

one we've got a lot of work to do over

281

00:23:59,029 --> 00:23:57,039

there yes now that

282

00:24:01,310 --> 00:23:59,039

that's right the the new class of

283

00:24:02,870 --> 00:24:01,320

astronaut which has been selected in

284

00:24:04,390 --> 00:24:02,880

2009

285

00:24:05,350 --> 00:24:04,400

all the six

286

00:24:08,630 --> 00:24:05,360

are now

287

00:24:11,269 --> 00:24:08,640

assigned to a flight which is uh not bad

288

00:24:13,909 --> 00:24:11,279

and we had already the the flight of

289

00:24:16,710 --> 00:24:13,919

luca and alexander is the second one but

290

00:24:19,350 --> 00:24:16,720

alexander is the first one on an isa

291

00:24:20,549 --> 00:24:19,360

flight because luca was flying on an asi

292

00:24:22,950 --> 00:24:20,559

flight so

293

00:24:25,510 --> 00:24:22,960

we can say that alexander is the first

294

00:24:27,350 --> 00:24:25,520

one on anisa flight and

295

00:24:30,470 --> 00:24:27,360

and the others will come when alexander

296

00:24:32,390 --> 00:24:30,480

will come back samantha will will go so

297

00:24:34,230 --> 00:24:32,400

meaning that it will be one year with a

298

00:24:35,430 --> 00:24:34,240

nice astronaut on board the space

299

00:24:38,149 --> 00:24:35,440

station and

300

00:24:39,590 --> 00:24:38,159

and that will continue until 20

301
00:24:41,830 --> 00:24:39,600
2016.

302
00:24:43,590 --> 00:24:41,840
and this international cooperation

303
00:24:46,630 --> 00:24:43,600
really works well

304
00:24:48,070 --> 00:24:46,640
oh yes no but that

305
00:24:51,029 --> 00:24:48,080
the space station is a fantastic

306
00:24:52,070 --> 00:24:51,039
laboratory for research and for progress

307
00:24:53,750 --> 00:24:52,080
uh

308
00:24:55,909 --> 00:24:53,760
for the scientists but it's also a

309
00:24:58,710 --> 00:24:55,919
fantastic laboratory for international

310
00:25:00,470 --> 00:24:58,720
cooperation i must say that to have the

311
00:25:02,710 --> 00:25:00,480
six persons

312
00:25:05,029 --> 00:25:02,720
working and living safely on board there

313
00:25:06,630 --> 00:25:05,039

are six thousand persons working on

314

00:25:09,750 --> 00:25:06,640

planet earth on three different

315

00:25:11,990 --> 00:25:09,760

continents and they better cooperate

316

00:25:14,950 --> 00:25:12,000

because if they don't cooperate i think

317

00:25:16,630 --> 00:25:14,960

that the six persons on board are at

318

00:25:17,590 --> 00:25:16,640

risk so

319

00:25:19,990 --> 00:25:17,600

it's a

320

00:25:21,190 --> 00:25:20,000

fantastic laboratory for cooperation and

321

00:25:23,190 --> 00:25:21,200

i think that

322

00:25:26,830 --> 00:25:23,200

it's a model of cooperation which should

323

00:25:33,590 --> 00:25:29,269

professor verner you're the chairman of

324

00:25:36,070 --> 00:25:33,600

glr for you it's a good great day

325

00:25:37,990 --> 00:25:36,080

for me it's a very special day you see i

326

00:25:40,310 --> 00:25:38,000

entered into this business some seven

327

00:25:43,590 --> 00:25:40,320

years ago i'm a civil engineer so i came

328

00:25:46,870 --> 00:25:43,600

just from outside and in 2009

329

00:25:49,510 --> 00:25:46,880

alex alexander gerst was selected and

330

00:25:52,630 --> 00:25:49,520

from the very first day i knew him and

331

00:25:54,470 --> 00:25:52,640

today he is now on the way to iss and i

332

00:25:57,269 --> 00:25:54,480

can tell you that this is really very

333

00:25:59,669 --> 00:25:57,279

much moving my heart because i feel some

334

00:26:02,549 --> 00:25:59,679

responsibility for him we are from dlr

335

00:26:03,669 --> 00:26:02,559

we are not either but we are part of isa

336

00:26:06,230 --> 00:26:03,679

and i am the head of the german

337

00:26:09,430 --> 00:26:06,240

delegation to either so i was part of

338

00:26:11,990 --> 00:26:09,440

the overall action to send him to space

339

00:26:13,590 --> 00:26:12,000

and also as a german space agency we are

340

00:26:15,590 --> 00:26:13,600

supporting this mission with some

341

00:26:18,310 --> 00:26:15,600

experiments so i feel a little bit

342

00:26:20,470 --> 00:26:18,320

responsible also i'm not really a rocket

343

00:26:22,549 --> 00:26:20,480

engineer but you can you can really

344

00:26:24,870 --> 00:26:22,559

believe me i'm i'm feeling very much in

345

00:26:26,390 --> 00:26:24,880

my heart and i'm with him in this very

346

00:26:28,630 --> 00:26:26,400

tiny capsule

347

00:26:29,990 --> 00:26:28,640

and your personal feeling of this nice

348

00:26:34,950 --> 00:26:30,000

show

349

00:26:37,269 --> 00:26:34,960

here we are very close to the launcher

350

00:26:39,430 --> 00:26:37,279

you can not only see it you can feel it

351

00:26:42,549 --> 00:26:39,440

you can hear it your whole body is

352

00:26:45,350 --> 00:26:42,559

moving by the sound and also by the the

353

00:26:46,870 --> 00:26:45,360

color you can see and we were very lucky

354

00:26:49,830 --> 00:26:46,880

that we had very good weather so we

355

00:26:52,470 --> 00:26:49,840

could follow the launch for a long time

356

00:26:53,909 --> 00:26:52,480

so it was really impressing and

357

00:26:56,310 --> 00:26:53,919

i'm just

358

00:26:58,950 --> 00:26:56,320

deeply impressed and the utilization of

359

00:27:01,750 --> 00:26:58,960

the international space station we will

360

00:27:03,990 --> 00:27:01,760

continue and with this these experiments

361

00:27:06,549 --> 00:27:04,000

you were mentioning it's important yes

362

00:27:08,789 --> 00:27:06,559

and if you look into what you saw today

363

00:27:11,110 --> 00:27:08,799

so an american

364

00:27:13,430 --> 00:27:11,120

russian and the european of german

365

00:27:15,430 --> 00:27:13,440

nationality to together

366

00:27:16,470 --> 00:27:15,440

when they were greeting us when they

367

00:27:18,630 --> 00:27:16,480

said

368

00:27:20,870 --> 00:27:18,640

we know we are entering

369

00:27:23,590 --> 00:27:20,880

this is what i would like to see in the

370

00:27:24,950 --> 00:27:23,600

future for also for the actions on earth

371

00:27:28,149 --> 00:27:24,960

so that we are

372

00:27:30,549 --> 00:27:28,159

working together beyond national borders

373

00:27:33,190 --> 00:27:30,559

and in space we are doing it already and

374

00:27:35,590 --> 00:27:33,200

so i hope that the utilization of the

375

00:27:37,750 --> 00:27:35,600

space station will also bring back what

376

00:27:40,149 --> 00:27:37,760

we think what it is worse

377

00:27:42,549 --> 00:27:40,159

that means a lot of real experiments

378

00:27:45,430 --> 00:27:42,559

which help us for instance in medicine

379

00:27:46,789 --> 00:27:45,440

or in material science but also that we

380

00:27:50,310 --> 00:27:46,799

see that

381

00:29:03,110 --> 00:27:50,320

space activities are working beyond all

382

00:29:03,120 --> 00:29:23,350

so