



Ю. МАЛЕНЧЕНКО
JU. MALENSCHENKO

1
00:00:15,200 --> 00:00:42,790
grab a pen and sign the door all right

2
00:00:56,389 --> 00:00:43,830
this

3
00:00:56,399 --> 00:01:14,149
that was a godspeed

4
00:01:14,159 --> 00:01:49,749
is

5
00:01:49,759 --> 00:02:06,709
party in july

6
00:02:06,719 --> 00:02:12,790
always

7
00:02:12,800 --> 00:02:47,190
all right the bus is leaving now

8
00:02:47,200 --> 00:03:19,589
oh

9
00:03:19,599 --> 00:03:48,550
um

10
00:03:48,560 --> 00:04:05,509
uh

11
00:04:05,519 --> 00:04:40,629
just like this yes wonderful

12
00:04:40,639 --> 00:05:06,710
oh

13
00:05:06,720 --> 00:05:37,510

hi daddy

14

00:05:37,520 --> 00:06:52,230

don't worry

15

00:06:52,240 --> 00:07:04,710

daddy

16

00:07:04,720 --> 00:07:17,510

hey guys

17

00:07:17,520 --> 00:07:33,029

um

18

00:07:33,039 --> 00:07:52,230

can you say hi to erie

19

00:07:52,240 --> 00:08:03,830

i want to say bye today

20

00:08:08,950 --> 00:08:05,990

first of all i would like to wish you

21

00:08:10,830 --> 00:08:08,960

good luck and successful implementation

22

00:08:14,309 --> 00:08:10,840

of the scientific

23

00:08:17,270 --> 00:08:14,319

program and the current crew on board

24

00:08:20,550 --> 00:08:17,280

are looking forward to seeing it there

25

00:08:22,390 --> 00:08:20,560

and we will be watching thoroughly

26

00:08:24,150 --> 00:08:22,400

carefully

27

00:08:26,550 --> 00:08:24,160

what you're doing on board we will be

28

00:08:29,110 --> 00:08:26,560

helping you if needed something like the

29

00:08:31,270 --> 00:08:29,120

ambassadors for us the ambassadors in

30

00:08:34,070 --> 00:08:31,280

space of course for peace but also

31

00:08:36,949 --> 00:08:34,080

investors because we are not able to fly

32

00:08:39,350 --> 00:08:36,959

so we are depending totally on what you

33

00:08:41,990 --> 00:08:39,360

are reporting to us so we wish you all

34

00:08:46,230 --> 00:08:42,000

the best for the flight a safe drift and

35

00:08:48,550 --> 00:08:46,240

also of course also a safe trade bank

36

00:08:50,470 --> 00:08:48,560

it's great to see you guys the teams in

37

00:08:52,870 --> 00:08:50,480

houston are all ready to support you on

38

00:08:55,269 --> 00:08:52,880

orbit the space station is ready for you

39

00:08:56,790 --> 00:08:55,279

so have a good time on station enjoy

40

00:09:15,110 --> 00:08:56,800

space station and take good care of the

41

00:09:28,710 --> 00:09:16,710

mr chairman

42

00:09:28,720 --> 00:09:37,269

good luck all the best

43

00:09:37,279 --> 00:10:09,030

oh

44

00:10:09,040 --> 00:10:18,310

who saw his crew is ready for the flight

45

00:10:18,320 --> 00:10:58,150

this way please

46

00:10:58,160 --> 00:11:04,150

yuri look here

47

00:11:07,110 --> 00:11:05,430

raise your

48

00:11:09,430 --> 00:11:07,120

left arm and then

49

00:11:12,470 --> 00:11:09,440

right arm

50

00:11:20,710 --> 00:11:12,480

raise your right hand and wave there we

51
00:11:20,720 --> 00:11:27,030
thank

52
00:11:27,040 --> 00:11:42,389
let's do you

53
00:11:42,399 --> 00:12:02,710
uh

54
00:12:08,310 --> 00:12:06,389
we're at 24 and counting now

55
00:12:16,230 --> 00:12:08,320
the ground umbilical to the third stage

56
00:12:25,990 --> 00:12:20,230
second umbilical tower now separating

57
00:12:26,000 --> 00:12:29,829
ramping up to flight speed

58
00:12:35,110 --> 00:12:32,710
and liftoff liftoff of tim copper yuri

59
00:12:42,949 --> 00:12:35,120
malenchenko and timothy peake on their

60
00:12:47,990 --> 00:12:44,790
so far getting good first stage

61
00:12:50,230 --> 00:12:48,000
performance the soyuz delivering 930 000

62
00:12:52,710 --> 00:12:50,240
pounds of thrust from its four boosters

63
00:12:54,949 --> 00:12:52,720

and single core engine

64

00:12:57,030 --> 00:12:54,959

first stage of the soyuz 68 feet in

65

00:12:58,870 --> 00:12:57,040

length 24 feet in diameter it's going to

66

00:13:07,910 --> 00:12:58,880

be burning liquid fuel for the first two

67

00:13:11,430 --> 00:13:09,509

we'll be getting regular

68

00:13:13,269 --> 00:13:11,440

launch performance calls from the uh

69

00:13:15,750 --> 00:13:13,279

engineers out there at the launch pad in

70

00:13:17,430 --> 00:13:15,760

baikonur 48 seconds and counting after

71

00:13:24,710 --> 00:13:17,440

launch everything continuing to go well

72

00:13:24,720 --> 00:13:37,509

chamber pressure

73

00:13:41,110 --> 00:13:39,430

now one minute and 10 seconds into the

74

00:13:44,230 --> 00:13:41,120

flight the soyuz rocket already

75

00:13:45,269 --> 00:13:44,240

traveling at a velocity of 1 100 miles

76

00:13:48,470 --> 00:13:45,279

per hour

77

00:13:50,790 --> 00:13:48,480

on board malenchenko cobra and peak one

78

00:13:54,150 --> 00:13:50,800

minute and 22 seconds into their planned

79

00:13:55,670 --> 00:13:54,160

eight minute 45 flight into orbit

80

00:13:57,110 --> 00:13:55,680

everything continuing to go well with

81

00:13:59,189 --> 00:13:57,120

the first stage the four strap on

82

00:14:05,030 --> 00:13:59,199

boosters and the core engine performing

83

00:14:10,230 --> 00:14:07,829

and just there we see the four strap on

84

00:14:11,829 --> 00:14:10,240

boosters jettison the first stage and

85

00:14:13,910 --> 00:14:11,839

the bootstrap on boosters completing

86

00:14:16,389 --> 00:14:13,920

their job dropping away at an altitude

87

00:14:18,910 --> 00:14:16,399

of 28 statute miles at this point the

88

00:14:22,470 --> 00:14:18,920

soyuz is traveling at about 3

89

00:14:24,629 --> 00:14:22,480

350 miles per hour

90

00:14:26,230 --> 00:14:24,639

you can see the four strap-on boosters

91

00:14:28,230 --> 00:14:26,240

all separated from the soyuz

92

00:14:34,230 --> 00:14:28,240

successfully that core stage continuing

93

00:14:37,030 --> 00:14:35,350

and then

94

00:14:41,509 --> 00:14:37,040

shortly we should get confirmation that

95

00:14:41,519 --> 00:14:45,350

we can see that

96

00:14:48,710 --> 00:14:46,870

and confirmed the launch shroud uh

97

00:14:50,550 --> 00:14:48,720

protecting the soyuz during the initial

98

00:14:53,990 --> 00:14:50,560

ascent has been jettisoned the rocket

99

00:14:56,710 --> 00:14:54,000

now at an altitude of over 48 miles in

100

00:15:00,550 --> 00:14:58,949

copy we can see that on board everything

101
00:15:02,870 --> 00:15:00,560
continuing to go well you can see

102
00:15:04,629 --> 00:15:02,880
british astronaut tim peake there uh

103
00:15:07,910 --> 00:15:04,639
over in the right seat in the center

104
00:15:09,269 --> 00:15:07,920
soyuz commander yuri malenchenko

105
00:15:11,910 --> 00:15:09,279
everything going well for the soyuz

106
00:15:13,990 --> 00:15:11,920
craft as it continues its climb the

107
00:15:15,110 --> 00:15:14,000
soyuz already traveling at a speed of

108
00:15:18,949 --> 00:15:15,120
over 4

109
00:15:23,189 --> 00:15:21,590
and this right here actually a

110
00:15:25,430 --> 00:15:23,199
view from the international space

111
00:15:27,750 --> 00:15:25,440
station getting an unprecedented view of

112
00:15:44,310 --> 00:15:27,760
the soyuz as it makes its flight into

113
00:15:46,790 --> 00:15:45,430

you can

114

00:15:48,710 --> 00:15:46,800

see the

115

00:15:51,829 --> 00:15:48,720

small jolt there for the crew members as

116

00:15:53,509 --> 00:15:51,839

the third stage cuts off and separates

117

00:15:55,350 --> 00:15:53,519

the single liquid fueled engine shut

118

00:16:01,670 --> 00:15:55,360

down and dropping away at an altitude of

119

00:16:04,949 --> 00:16:03,430

bill gerstenmaier nasa's associate

120

00:16:07,350 --> 00:16:04,959

administrator of human exploration

121

00:16:11,350 --> 00:16:07,360

operations bill from our viewing point

122

00:16:13,430 --> 00:16:11,360

here gasps of joy cheers uh a tremendous

123

00:16:17,509 --> 00:16:13,440

sight a launch like none other i've ever

124

00:16:19,990 --> 00:16:17,519

seen your thoughts as soyuz took flight

125

00:16:22,790 --> 00:16:20,000

again just an amazing launch today

126
00:16:24,069 --> 00:16:22,800
absolutely fantastic to see this rocket

127
00:16:25,990 --> 00:16:24,079
lift off

128
00:16:27,829 --> 00:16:26,000
again i know the complexity and all the

129
00:16:29,829 --> 00:16:27,839
work that went into making this rocket

130
00:16:31,269 --> 00:16:29,839
get here and be ready to launch i also

131
00:16:33,350 --> 00:16:31,279
know all the planning that went on in

132
00:16:34,870 --> 00:16:33,360
houston by all the teams that actually

133
00:16:37,030 --> 00:16:34,880
worked on all this and did all this

134
00:16:39,350 --> 00:16:37,040
planning and to see all that come

135
00:16:41,430 --> 00:16:39,360
together in one instance as this rocket

136
00:16:43,990 --> 00:16:41,440
majestically lifts off the pad is just

137
00:16:46,629 --> 00:16:44,000
absolutely amazing and also to be here

138
00:16:48,310 --> 00:16:46,639

and to feel that sound from the rocket

139

00:16:50,470 --> 00:16:48,320

echo through your body is just

140

00:16:52,230 --> 00:16:50,480

absolutely amazing

141

00:16:54,870 --> 00:16:52,240

the russian side

142

00:16:57,350 --> 00:16:54,880

with the backing and obvious cooperation

143

00:16:59,110 --> 00:16:57,360

of the partnership pulled off a landing

144

00:17:01,269 --> 00:16:59,120

of a crew and a launch in a four-day

145

00:17:02,389 --> 00:17:01,279

period how impactful is that in your

146

00:17:04,230 --> 00:17:02,399

mind

147

00:17:05,990 --> 00:17:04,240

again i think it just shows the absolute

148

00:17:08,789 --> 00:17:06,000

professionalism of this team here that

149

00:17:10,870 --> 00:17:08,799

they're focused to support the landing

150

00:17:12,789 --> 00:17:10,880

you know we landed at the airport here

151
00:17:14,949 --> 00:17:12,799
some of the crews were coming back from

152
00:17:16,870 --> 00:17:14,959
the landing site at the time we're here

153
00:17:18,710 --> 00:17:16,880
to get ready for a launch and that just

154
00:17:20,870 --> 00:17:18,720
all seemed to go seamless

155
00:17:22,949 --> 00:17:20,880
crew preparation was good today the suit

156
00:17:25,110 --> 00:17:22,959
up went extremely well

157
00:17:27,189 --> 00:17:25,120
the walkout was good the weather was

158
00:17:29,669 --> 00:17:27,199
fantastic here everything seemed to come

159
00:17:31,750 --> 00:17:29,679
together just to make this december last

160
00:17:33,590 --> 00:17:31,760
absolutely amazing i i can't believe i'm

161
00:17:36,070 --> 00:17:33,600
here talking to you in december and i

162
00:17:38,470 --> 00:17:36,080
don't have my hood on i'm not frozen

163
00:17:40,710 --> 00:17:38,480

it was just a beautiful weather day a

164

00:17:42,630 --> 00:17:40,720

beautiful launch day and each one of

165

00:17:44,150 --> 00:17:42,640

these launches is special seeing this

166

00:17:45,909 --> 00:17:44,160

this spacecraft going to the space

167

00:17:47,029 --> 00:17:45,919

station and thinking about the research

168

00:17:49,190 --> 00:17:47,039

that's going to be done during this

169

00:17:50,950 --> 00:17:49,200

expedition it's exciting getting three

170

00:17:52,470 --> 00:17:50,960

crew members on there it's exciting

171

00:17:53,990 --> 00:17:52,480

seeing this launch through the eyes of

172

00:17:55,990 --> 00:17:54,000

the british who's there astronauts

173

00:17:58,549 --> 00:17:56,000

flying for the first time to be with the

174

00:18:00,710 --> 00:17:58,559

ambassador here and hear his excitement

175

00:18:02,390 --> 00:18:00,720

is also really catching it it makes me

176

00:18:04,230 --> 00:18:02,400

think about what what we do and how

177

00:18:06,390 --> 00:18:04,240

special it really is when someone new to

178

00:18:08,390 --> 00:18:06,400

the process you know

179

00:18:10,630 --> 00:18:08,400

exposes me to their joy of what's

180

00:18:12,470 --> 00:18:10,640

happening yeah

181

00:18:15,029 --> 00:18:12,480

kirk shireman international space

182

00:18:16,630 --> 00:18:15,039

station program manager kirk

183

00:18:18,789 --> 00:18:16,640

to say it was awesome might be an

184

00:18:20,789 --> 00:18:18,799

understatement but a soyuz and a crew

185

00:18:22,630 --> 00:18:20,799

headed for the station uh your thoughts

186

00:18:24,549 --> 00:18:22,640

on this launch uh to cap off a

187

00:18:26,070 --> 00:18:24,559

spectacular year

188

00:18:29,669 --> 00:18:26,080

that's it was a beautiful launch a

189

00:18:31,990 --> 00:18:29,679

wonderful day here clear skies no wind

190

00:18:34,390 --> 00:18:32,000

a little chilly but not too bad and a

191

00:18:36,150 --> 00:18:34,400

very exciting launch so a great end to

192

00:18:38,230 --> 00:18:36,160

this year it's been a difficult year but

193

00:18:39,669 --> 00:18:38,240

a very very exciting one we're glad to

194

00:18:40,950 --> 00:18:39,679

have the crew on their way to the

195

00:18:43,110 --> 00:18:40,960

international space station and looking

196

00:18:44,150 --> 00:18:43,120

forward to a docking here in about six

197

00:18:46,950 --> 00:18:44,160

hours

198

00:18:49,270 --> 00:18:46,960

how important uh was this launch to get

199

00:18:51,669 --> 00:18:49,280

off the ground to cap off the air how

200

00:18:52,950 --> 00:18:51,679

important will this next six months be

201
00:18:54,789 --> 00:18:52,960
for this crew that

202
00:18:56,470 --> 00:18:54,799
is making it to the station

203
00:18:59,190 --> 00:18:56,480
well as you know we have a really busy

204
00:19:02,070 --> 00:18:59,200
december uh we've already had cygnus uh

205
00:19:04,070 --> 00:19:02,080
come up and birth to the iss we have uh

206
00:19:06,710 --> 00:19:04,080
soyuz landing safely thank goodness and

207
00:19:08,710 --> 00:19:06,720
we have uh soyuz launch now we have uh

208
00:19:10,630 --> 00:19:08,720
progress launching here uh shortly and a

209
00:19:13,110 --> 00:19:10,640
product is undocking so just extremely

210
00:19:15,590 --> 00:19:13,120
busy december and uh and we're really

211
00:19:17,590 --> 00:19:15,600
glad to uh glad to be underway

212
00:19:20,150 --> 00:19:17,600
kirk the partnership putting this all

213
00:19:21,110 --> 00:19:20,160

together a landing just days ago now a

214

00:19:22,870 --> 00:19:21,120

launch

215

00:19:25,669 --> 00:19:22,880

the crew heading back to its full

216

00:19:27,590 --> 00:19:25,679

complement of six research abounding how

217

00:19:28,710 --> 00:19:27,600

important has uh the coalition of the

218

00:19:31,430 --> 00:19:28,720

partnership the strength of the

219

00:19:33,510 --> 00:19:31,440

partnership been to keep station uh not

220

00:19:34,470 --> 00:19:33,520

only thriving but pressing ahead in the

221

00:19:36,230 --> 00:19:34,480

future

222

00:19:37,430 --> 00:19:36,240

yeah of course it's been a great year to

223

00:19:38,950 --> 00:19:37,440

illustrate that we've had some

224

00:19:40,870 --> 00:19:38,960

difficulties the russians actually had

225

00:19:42,950 --> 00:19:40,880

some difficulties and we've been able to

226

00:19:44,549 --> 00:19:42,960

pull together and share resources and

227

00:19:46,310 --> 00:19:44,559

still have a robust research program

228

00:19:48,870 --> 00:19:46,320

going on on orbit and then of course we

229

00:19:50,470 --> 00:19:48,880

just launched today with isa astronaut a

230

00:19:52,710 --> 00:19:50,480

us astronaut of course and a russian

231

00:19:54,150 --> 00:19:52,720

cosmonaut and so it really shows the

232

00:19:56,549 --> 00:19:54,160

strength of the partnership and how that

233

00:19:58,710 --> 00:19:56,559

partnership can thrive uh even when

234

00:20:01,110 --> 00:19:58,720

we've had difficulties so uh the station

235

00:20:02,789 --> 00:20:01,120

is as strong as ever and we'll be back

236

00:20:04,710 --> 00:20:02,799

up to a complement of six crew here in a

237

00:20:07,830 --> 00:20:04,720

few hours and and be ready to hit the

238

00:20:09,909 --> 00:20:07,840

ground running coming into the new year

239

00:20:12,390 --> 00:20:09,919

jan werner you're the director general

240

00:20:14,149 --> 00:20:12,400

visa what is your feeling while seeing

241

00:20:16,230 --> 00:20:14,159

this beautiful launch i have two

242

00:20:18,710 --> 00:20:16,240

feelings at the same time one feeling is

243

00:20:21,270 --> 00:20:18,720

international cooperation in space

244

00:20:23,029 --> 00:20:21,280

is really working number one

245

00:20:24,630 --> 00:20:23,039

the second feeling is

246

00:20:26,630 --> 00:20:24,640

you see these

247

00:20:28,789 --> 00:20:26,640

astronauts european astronauts of

248

00:20:31,190 --> 00:20:28,799

whatever nationality in this very

249

00:20:33,510 --> 00:20:31,200

special it's a british nationality

250

00:20:35,830 --> 00:20:33,520

they are close to my heart they are my

251

00:20:37,270 --> 00:20:35,840

children so to say my kids and i'm a

252

00:20:39,110 --> 00:20:37,280

little bit afraid at the beginning of

253

00:20:40,630 --> 00:20:39,120

the launch but now i'm relaxed and i'm

254

00:20:42,870 --> 00:20:40,640

very very happy

255

00:20:45,190 --> 00:20:42,880

so we are talking about a mixture called

256

00:20:47,350 --> 00:20:45,200

principia this is gravity we had the

257

00:20:49,430 --> 00:20:47,360

launch about gravity with either

258

00:20:51,350 --> 00:20:49,440

pathfinder so we're really working in

259

00:20:55,909 --> 00:20:51,360

this interesting and scientific field

260

00:20:59,190 --> 00:20:55,919

yeah principia is the logo also as a of

261

00:21:01,830 --> 00:20:59,200

our dear colleague comrade astronaut tim

262

00:21:03,750 --> 00:21:01,840

peake and principia is looking back to

263

00:21:05,350 --> 00:21:03,760

all the fundamentals of gravity you're

264

00:21:06,789 --> 00:21:05,360

right with lisa pass thunder we are

265

00:21:09,990 --> 00:21:06,799

looking especially to gravitational

266

00:21:12,549 --> 00:21:10,000

waves in the universe and here and this

267

00:21:14,549 --> 00:21:12,559

launch you can see what goes up must

268

00:21:16,870 --> 00:21:14,559

come down so we will have a full mission

269

00:21:18,549 --> 00:21:16,880

also with a landing but timothy peak

270

00:21:20,390 --> 00:21:18,559

will also do fundamental research on

271

00:21:22,549 --> 00:21:20,400

board the iss and therefore we have the

272

00:21:25,110 --> 00:21:22,559

relation between newton

273

00:21:27,110 --> 00:21:25,120

einstein and to today's research

274

00:21:29,190 --> 00:21:27,120

and all this research is done in

275

00:21:31,190 --> 00:21:29,200

international cooperation this is really

276

00:21:33,430 --> 00:21:31,200

important today yeah isaac needs to work

277

00:21:35,110 --> 00:21:33,440

with the others yeah for either for us

278

00:21:37,669 --> 00:21:35,120

international activities are more or

279

00:21:39,830 --> 00:21:37,679

less day-to-day work because we have 22

280

00:21:41,909 --> 00:21:39,840

plus one member state but to work

281

00:21:44,070 --> 00:21:41,919

together also with east and west meaning

282

00:21:46,310 --> 00:21:44,080

with the united states of america and

283

00:21:48,950 --> 00:21:46,320

with russia at the same time even in

284

00:21:51,510 --> 00:21:48,960

times of crisis i think this shows the

285

00:21:54,149 --> 00:21:51,520

real value of space beyond all the

286

00:21:56,789 --> 00:21:54,159

science and exploration subjects so here

287

00:22:14,710 --> 00:21:56,799

international activities can be realized

288

00:22:14,720 --> 00:23:13,270

oh

289

00:23:13,280 --> 00:23:24,149

so

290

00:23:24,159 --> 00:23:36,470

is

291

00:23:36,480 --> 00:24:51,909

um

292

00:24:51,919 --> 00:25:02,630

so