1
00:00:14,390 --> 00:00:12,549
good day and welcome back to the russian

2
00:00:15,910 --> 00:00:14,400
mission control center in karl yaff

3
00:00:17,430 --> 00:00:15,920
outside moscow you're looking currently

4
00:00:18,790 --> 00:00:17,440
at a view of the international space

5
00:00:20,870 --> 00:00:18,800
station flight control room at the

6
00:00:22,710 --> 00:00:20,880
johnson space center in houston

7
00:00:24,870 --> 00:00:22,720
where the nasa team of flight

8
00:00:26,550 --> 00:00:24,880
controllers worked in conjunction with

9
00:00:28,630 --> 00:00:26,560
their russian counterparts a half a

10
00:00:31,029 --> 00:00:28,640
world away here in korea

11
00:00:33,110 --> 00:00:31,039
to oversee the

12
00:00:36,310 --> 00:00:33,120
smooth and uneventful docking of the

13
00:00:38,549 --> 00:00:36,320

soyuz tma-17 a short time ago to the

14
00:00:40,709 --> 00:00:38,559
earth-facing port of the zarya module of

15
00:00:42,790 --> 00:00:40,719
the international space station you're

16
00:00:45,029 --> 00:00:42,800
currently looking at a view

17
00:00:47,670 --> 00:00:45,039
down the longitude of the

18
00:00:51,350 --> 00:00:47,680
russian segment of the station the newly

19
00:00:54,389 --> 00:00:51,360
arrived tma-17 is in the foreground uh

20
00:00:56,069 --> 00:00:54,399
behind it is the progress 35 cargo ship

21
00:00:57,750 --> 00:00:56,079
that is docked to the russian pure

22
00:01:00,229 --> 00:00:57,760
docking compartment

23
00:01:02,310 --> 00:01:00,239
the russian uh soyuz tma17 that was

24
00:01:04,710 --> 00:01:02,320
launched 48 hours ago from the baikonur

25
00:01:05,910 --> 00:01:04,720
cosmodrome in kazakhstan for freezing

26
00:01:08,390 --> 00:01:05,920
rain

27
00:01:11,109 --> 00:01:08,400
closed in on automated approach and

28
00:01:15,830 --> 00:01:11,119
smoothly linked up to the azaria docking

29
00:01:19,270 --> 00:01:15,840
port at 4 48 pm central time 1 48 am

30
00:01:22,550 --> 00:01:19,280
moscow time about an hour and 13 minutes

31
00:01:24,070 --> 00:01:22,560
ago as the two spacecraft sailed 220

32
00:01:26,550 --> 00:01:24,080
statute miles

33
00:01:30,069 --> 00:01:26,560
uh just east of the uh

34
00:01:32,870 --> 00:01:30,079
coast of brazil near rio de janeiro

35
00:01:35,270 --> 00:01:32,880
it was a flawless docking and approach

36
00:01:36,789 --> 00:01:35,280
with soyuz commander oleg kotov at the

37
00:01:39,270 --> 00:01:36,799
controls uh

38
00:01:42,069 --> 00:01:39,280

watching the automated approach that was

39
00:01:45,510 --> 00:01:42,079
supervised by the onboard computers

40
00:01:47,670 --> 00:01:45,520
to kotov's left was japan aerospace

41
00:01:50,310 --> 00:01:47,680
exploration agency astronaut soichi

42
00:01:52,389 --> 00:01:50,320
niguchi as kotov and naguchi now are at

43
00:01:55,429 --> 00:01:52,399
the space station for the second time

44
00:01:57,590 --> 00:01:55,439
neguchi about to begin his uh tour of

45
00:01:59,190 --> 00:01:57,600
duty as the second long-duration

46
00:02:01,270 --> 00:01:59,200
japanese astronaut onboard the

47
00:02:04,389 --> 00:02:01,280
international space station following in

48
00:02:07,590 --> 00:02:04,399
the footsteps of koichi wakata

49
00:02:09,830 --> 00:02:07,600
nasa's tj creamer was to kotops right on

50
00:02:12,630 --> 00:02:09,840
board the descent module of the soyuz

51
00:02:14,550 --> 00:02:12,640
tma-17 as it linked up to the

52
00:02:18,550 --> 00:02:14,560
international space station for the next

53
00:02:21,589 --> 00:02:18,560
half year as creamer kotov and naguchi

54
00:02:24,630 --> 00:02:21,599
round out now the expedition 22 crew and

55
00:02:26,710 --> 00:02:24,640
will soon be united with station

56
00:02:29,110 --> 00:02:26,720
commander jeff williams and russian

57
00:02:31,110 --> 00:02:29,120
cosmonaut max sarajev who have been on

58
00:02:33,110 --> 00:02:31,120
board the international space station

59
00:02:34,790 --> 00:02:33,120
since october 2nd

60
00:02:37,190 --> 00:02:34,800
there is a good look at

61
00:02:39,670 --> 00:02:37,200
what will soon be the five-man crew on

62
00:02:42,229 --> 00:02:39,680
board the station creamer on the left

63
00:02:44,309 --> 00:02:42,239

next to him williams then surya kotov

64
00:02:47,509 --> 00:02:44,319
and of course soichi niguchi on the far

65
00:02:49,270 --> 00:02:47,519
right of your screen

66
00:02:50,869 --> 00:02:49,280
williams and sarayev will remain on

67
00:02:53,910 --> 00:02:50,879
board the international space station

68
00:02:56,229 --> 00:02:53,920
until march 18th when they will land and

69
00:02:58,710 --> 00:02:56,239
a short time thereafter two weeks later

70
00:03:00,710 --> 00:02:58,720
another three a person crew will be

71
00:03:02,390 --> 00:03:00,720
launched to

72
00:03:05,270 --> 00:03:02,400
bring the station back to its full

73
00:03:07,030 --> 00:03:05,280
complement of crew members of six as we

74
00:03:09,509 --> 00:03:07,040
begin what is known as indirect crew

75
00:03:11,910 --> 00:03:09,519
rotation four times a year on board the

76
00:03:13,910 --> 00:03:11,920
international outpost again a good view

77
00:03:16,309 --> 00:03:13,920
of the foreground just behind

78
00:03:19,430 --> 00:03:16,319
pressurized mating adapter number three

79
00:03:20,949 --> 00:03:19,440
is the soyuz tma-17 that arrived at the

80
00:03:25,030 --> 00:03:20,959
international space station about an

81
00:03:27,589 --> 00:03:25,040
hour and 15 minutes ago we have uh the

82
00:03:29,190 --> 00:03:27,599
video to replay for you of the final

83
00:03:30,309 --> 00:03:29,200
minute or so of the approach of the

84
00:03:31,190 --> 00:03:30,319
soyuz

85
00:03:34,070 --> 00:03:31,200
the

86
00:03:35,190 --> 00:03:34,080
approach again was flawless it occurred

87
00:03:37,509 --> 00:03:35,200
on time

88
00:03:39,030 --> 00:03:37,519

no issues associated whatsoever as you

89
00:03:41,270 --> 00:03:39,040
see from the truss camera on the

90
00:03:43,670 --> 00:03:41,280
international space station a good view

91
00:03:45,990 --> 00:03:43,680
of the tma-17 that was launched two days

92
00:03:48,229 --> 00:03:46,000
ago from the baikonur cosmodrome in

93
00:03:50,789 --> 00:03:48,239
kazakhstan this view from the external

94
00:03:53,030 --> 00:03:50,799
camera of the soyuz and again this view

95
00:03:54,789 --> 00:03:53,040
from a truss camera as we toggle back

96
00:03:57,270 --> 00:03:54,799
and forth to provide views from both

97
00:04:02,149 --> 00:03:57,280
spacecraft during uh the final approach

98
00:04:04,070 --> 00:04:02,159
for docking of the new three uh man

99
00:04:06,710 --> 00:04:04,080
addition to the international space

100
00:04:08,309 --> 00:04:06,720
station arriving just in time uh to

101
00:04:11,350 --> 00:04:08,319
celebrate the holidays with jeff

102
00:04:13,110 --> 00:04:11,360
williams and max cerreo and to begin a

103
00:04:15,509 --> 00:04:13,120
very complex

104
00:04:17,590 --> 00:04:15,519
month or so of work to prepare the

105
00:04:21,189 --> 00:04:17,600
international space station for the

106
00:04:23,590 --> 00:04:21,199
attachment of the new tranquility node 3

107
00:04:26,469 --> 00:04:23,600
and the new viewport called the cupola

108
00:04:27,990 --> 00:04:26,479
that will occur on the sts-130 mission

109
00:04:29,430 --> 00:04:28,000
of the shuttle endeavor that is

110
00:04:32,550 --> 00:04:29,440
scheduled to launch from the kennedy

111
00:04:34,550 --> 00:04:32,560
space center on february 7th and again

112
00:04:37,510 --> 00:04:34,560
you're watching the replay of the actual

113
00:04:41,270 --> 00:04:37,520

docking the contact and capture of the

114
00:04:45,110 --> 00:04:41,280
soyuz tma17 that occurred at 4 48 pm

115
00:04:47,590 --> 00:04:45,120
central time 1 48 a.m moscow time we are

116
00:04:49,830 --> 00:04:47,600
expecting uh the hatches to swing open

117
00:04:52,070 --> 00:04:49,840
about 30 minutes from now perhaps a bit

118
00:04:53,110 --> 00:04:52,080
sooner than that the crew on board the

119
00:04:54,629 --> 00:04:53,120
station

120
00:04:56,870 --> 00:04:54,639
once saw the hooks and latches were

121
00:04:59,030 --> 00:04:56,880
engaged between the two vehicles had an

122
00:05:01,029 --> 00:04:59,040
opportunity to begin the leak checks

123
00:05:03,029 --> 00:05:01,039
with surrey of conducting the leak check

124
00:05:06,150 --> 00:05:03,039
on the russian segment side of the

125
00:05:07,909 --> 00:05:06,160
docking interface between the soyuz and

126
00:05:09,670 --> 00:05:07,919
the

127
00:05:11,830 --> 00:05:09,680
zarya module you're looking at

128
00:05:13,189 --> 00:05:11,840
expedition commander jeff williams there

129
00:05:15,510 --> 00:05:13,199
in the destiny laboratory of the

130
00:05:17,749 --> 00:05:15,520
international space station as he begins

131
00:05:20,710 --> 00:05:17,759
to set up cameras and set up shop for

132
00:05:23,590 --> 00:05:20,720
the hatch opening that will join kotov

133
00:05:35,830 --> 00:05:23,600
creamer and agucci with williams and max

134
00:05:40,230 --> 00:05:37,990
as we mentioned a moment ago uh williams

135
00:05:41,670 --> 00:05:40,240
and sarajev have been by themselves on

136
00:05:43,749 --> 00:05:41,680
board the international space station

137
00:05:46,150 --> 00:05:43,759
for the past three weeks following the

138
00:05:48,390 --> 00:05:46,160

departure of roman romanenko frank

139
00:05:50,710 --> 00:05:48,400
dewina and bob thirsk from the

140
00:05:52,950 --> 00:05:50,720
international space station and now a

141
00:05:55,350 --> 00:05:52,960
five-man crew back on board the complex

142
00:05:57,590 --> 00:05:55,360
to begin a very intricate series of

143
00:05:59,510 --> 00:05:57,600
activities uh that will lead to the

144
00:06:01,430 --> 00:05:59,520
delivery of the final segments as we

145
00:06:03,590 --> 00:06:01,440
head into the home stretch of station

146
00:06:09,510 --> 00:06:03,600
assembly here's a look at the five-man

147
00:06:14,550 --> 00:06:11,590
what do you get when you mix two

148
00:06:17,270 --> 00:06:14,560
american army officers with two russian

149
00:06:18,390 --> 00:06:17,280
air force officers and one japanese

150
00:06:21,189 --> 00:06:18,400
engineer

151
00:06:22,870 --> 00:06:21,199
you get five pilots serving together as

152
00:06:25,189 --> 00:06:22,880
the international space station's

153
00:06:27,749 --> 00:06:25,199
expedition 22.

154
00:06:30,230 --> 00:06:27,759
retired u.s army colonel jeff williams

155
00:06:32,950 --> 00:06:30,240
was born in superior wisconsin on the

156
00:06:35,670 --> 00:06:32,960
shores of lake superior he grew up from

157
00:06:38,469 --> 00:06:35,680
the third grade on on a farm in the town

158
00:06:41,110 --> 00:06:38,479
of winter wisconsin a place you can see

159
00:06:43,670 --> 00:06:41,120
from space if you know where to look as

160
00:06:44,950 --> 00:06:43,680
best i could tell prior to expedition 13

161
00:06:46,790 --> 00:06:44,960
nobody had ever

162
00:06:48,710 --> 00:06:46,800
got a good picture of

163
00:06:50,629 --> 00:06:48,720

winter or the area

164
00:06:52,870 --> 00:06:50,639
of winter wisconsin

165
00:06:55,029 --> 00:06:52,880
so that was on my target list of course

166
00:06:56,710 --> 00:06:55,039
and i got some great shots in fact some

167
00:06:59,189 --> 00:06:56,720
of the shots i took through the 800

168
00:07:01,749 --> 00:06:59,199
millimeter camera you could see the

169
00:07:03,830 --> 00:07:01,759
buildings on the farm that i grew up on

170
00:07:05,830 --> 00:07:03,840
as a boy williams never dreamed of

171
00:07:07,589 --> 00:07:05,840
becoming an astronaut but he was

172
00:07:09,430 --> 00:07:07,599
interested in science

173
00:07:12,550 --> 00:07:09,440
his father was the high school guidance

174
00:07:14,950 --> 00:07:12,560
counselor and he guided his son to apply

175
00:07:17,909 --> 00:07:14,960
to the u.s military academy where

176
00:07:19,749 --> 00:07:17,919
williams was introduced to army aviation

177
00:07:21,110 --> 00:07:19,759
competed on the west point sport

178
00:07:23,589 --> 00:07:21,120
parachute team

179
00:07:25,189 --> 00:07:23,599
and read the right stuff which opened

180
00:07:27,830 --> 00:07:25,199
his eyes to the connection between

181
00:07:29,670 --> 00:07:27,840
aviation and the space program and it

182
00:07:31,029 --> 00:07:29,680
was at that time as a cadet at west

183
00:07:33,029 --> 00:07:31,039
point that i

184
00:07:34,870 --> 00:07:33,039
realized the potential and made it a

185
00:07:36,870 --> 00:07:34,880
personal objective

186
00:07:38,070 --> 00:07:36,880
to become part of

187
00:07:40,150 --> 00:07:38,080
this program

188
00:07:42,309 --> 00:07:40,160

with a bachelor's in applied science and

189
00:07:44,469 --> 00:07:42,319
engineering in hand williams went to

190
00:07:46,869 --> 00:07:44,479
flight school served in germany in an

191
00:07:48,710 --> 00:07:46,879
aviation battalion earned a masters in

192
00:07:51,510 --> 00:07:48,720
aeronautical engineering from the naval

193
00:07:53,990 --> 00:07:51,520
postgraduate school and spent four years

194
00:07:56,950 --> 00:07:54,000
on army assignment at nasa's johnson

195
00:07:58,950 --> 00:07:56,960
space center as an engineer and pilot

196
00:08:01,430 --> 00:07:58,960
next he completed the navy test pilot

197
00:08:03,270 --> 00:08:01,440
school and served as an army test pilot

198
00:08:05,510 --> 00:08:03,280
and earned a masters in national

199
00:08:07,110 --> 00:08:05,520
security and strategic studies at the

200
00:08:08,869 --> 00:08:07,120
naval war college

201
00:08:12,309 --> 00:08:08,879
he was picked for the astronaut corps in

202
00:08:13,670 --> 00:08:12,319
1996 and made his first spacewalk on a

203
00:08:15,990 --> 00:08:13,680
shuttle flight to the international

204
00:08:18,150 --> 00:08:16,000
space station in 2000

205
00:08:20,790 --> 00:08:18,160
he made two more spacewalks as the

206
00:08:23,830 --> 00:08:20,800
station's expedition 13 flight engineer

207
00:08:26,390 --> 00:08:23,840
in 2006 the mission that restored the

208
00:08:28,150 --> 00:08:26,400
station's crew size to three if you

209
00:08:30,629 --> 00:08:28,160
study history

210
00:08:33,190 --> 00:08:30,639
in the expansion of civilization in the

211
00:08:36,149 --> 00:08:33,200
development of technology and discovery

212
00:08:38,310 --> 00:08:36,159
and exploration in human history people

213
00:08:40,389 --> 00:08:38,320

were willing to take risks we in this

214
00:08:41,909 --> 00:08:40,399
program all believe that there's great

215
00:08:43,829 --> 00:08:41,919
benefit we don't know all of the

216
00:08:45,269 --> 00:08:43,839
specifics of that benefit

217
00:08:48,230 --> 00:08:45,279
but we believe that there's great

218
00:08:51,829 --> 00:08:48,240
benefit to humankind in what we do

219
00:08:54,550 --> 00:08:51,839
and that the risks are worth the benefit

220
00:08:56,710 --> 00:08:54,560
russian air force colonel max sorayev is

221
00:08:58,790 --> 00:08:56,720
the son of an air force officer

222
00:09:00,550 --> 00:08:58,800
he was born in chayabinsk in the

223
00:09:03,030 --> 00:09:00,560
southern ural region of russia just

224
00:09:05,670 --> 00:09:03,040
north of kazakhstan and during his youth

225
00:09:07,269 --> 00:09:05,680
the family moved all over the country

226
00:09:09,829 --> 00:09:07,279
by the time he finished high school they

227
00:09:13,269 --> 00:09:09,839
lived in noginsk a few miles from the

228
00:09:15,670 --> 00:09:13,279
cosmonaut training center in star city

229
00:09:17,829 --> 00:09:15,680
when i was a little boy i did not have

230
00:09:19,910 --> 00:09:17,839
this clear-cut objective that i wanted

231
00:09:24,070 --> 00:09:19,920
to become a cosmonaut i could not even

232
00:09:29,030 --> 00:09:27,829
i am a military brat and the idea was to

233
00:09:31,829 --> 00:09:29,040
become

234
00:09:34,070 --> 00:09:31,839
to join the military sorayev graduated

235
00:09:36,150 --> 00:09:34,080
magna laude from the kasha air force

236
00:09:38,389 --> 00:09:36,160
pilot school in the crimea with a

237
00:09:41,030 --> 00:09:38,399
specialty in command tactical fighter

238
00:09:43,269 --> 00:09:41,040

aviation and went on to the zhukovsky

239
00:09:45,750 --> 00:09:43,279
air force academy where he specialized

240
00:09:47,190 --> 00:09:45,760
in test and exploitation of aircraft and

241
00:09:49,030 --> 00:09:47,200
weapons systems

242
00:09:51,030 --> 00:09:49,040
he applied to become a cosmonaut

243
00:09:52,070 --> 00:09:51,040
thinking it was another way to develop

244
00:09:53,990 --> 00:09:52,080
and grow

245
00:09:57,590 --> 00:09:54,000
he was chosen for the program the year

246
00:10:00,310 --> 00:09:57,600
before he graduated from the academy

247
00:10:02,069 --> 00:10:00,320
we need to move forward we need to move

248
00:10:04,949 --> 00:10:02,079
our knowledge forward and our

249
00:10:06,630 --> 00:10:04,959
discoveries forward and the outcome for

250
00:10:08,949 --> 00:10:06,640
humankind

251
00:10:11,509 --> 00:10:08,959
is in the new technologies new knowledge

252
00:10:13,829 --> 00:10:11,519
and new approaches to research i think

253
00:10:16,230 --> 00:10:13,839
that is invaluable

254
00:10:18,710 --> 00:10:16,240
during his 12 years of training before

255
00:10:20,949 --> 00:10:18,720
his first flight assignment saraiv also

256
00:10:22,310 --> 00:10:20,959
graduated from the civil service academy

257
00:10:24,710 --> 00:10:22,320
of russia

258
00:10:27,910 --> 00:10:24,720
what sort of civilian job did you study

259
00:10:33,910 --> 00:10:30,389
dr oleg kotov is a russian air force

260
00:10:35,509 --> 00:10:33,920
colonel born in simferopol in the crimea

261
00:10:37,990 --> 00:10:35,519
since his father was in the soviet

262
00:10:43,350 --> 00:10:38,000
military kotov's childhood was spread

263
00:10:48,790 --> 00:10:45,430

the geography

264
00:10:51,590 --> 00:10:48,800
is pretty big for me i lived in ukraine

265
00:10:53,190 --> 00:10:51,600
in moldova

266
00:10:56,150 --> 00:10:53,200
in leningrad

267
00:10:59,670 --> 00:10:56,160
currently saint petersburg in moscow and

268
00:11:02,310 --> 00:10:59,680
i graduated from high school in moscow

269
00:11:04,470 --> 00:11:02,320
then kotol fulfilled a family tradition

270
00:11:05,990 --> 00:11:04,480
by studying at the kirov military

271
00:11:08,069 --> 00:11:06,000
medical academy

272
00:11:11,190 --> 00:11:08,079
when he graduated with his medical

273
00:11:13,030 --> 00:11:11,200
degree and his pilot's wings his next

274
00:11:15,430 --> 00:11:13,040
career step was influenced by the

275
00:11:17,990 --> 00:11:15,440
childhood desire to become the next yuri

276
00:11:22,069 --> 00:11:18,000
gagarin

277
00:11:23,269 --> 00:11:22,079
after i graduated from the academy i was

278
00:11:26,230 --> 00:11:23,279
um

279
00:11:29,110 --> 00:11:26,240
i started working in the uh cosmonaut

280
00:11:32,389 --> 00:11:29,120
training center in the star city and i

281
00:11:35,430 --> 00:11:33,350
test

282
00:11:38,389 --> 00:11:35,440
surgeon and i also worked as an

283
00:11:40,630 --> 00:11:38,399
instructor with a specialty of space

284
00:11:43,509 --> 00:11:40,640
medicine investigating how the human

285
00:11:45,269 --> 00:11:43,519
body responds in the absence of gravity

286
00:11:48,150 --> 00:11:45,279
kotov was selected for cosmonaut

287
00:11:51,590 --> 00:11:48,160
training himself in 1996 and when he

288
00:11:53,590 --> 00:11:51,600

made his first flight in 2007 as soyuz

289
00:11:55,750 --> 00:11:53,600
commander and flight engineer on the

290
00:11:58,710 --> 00:11:55,760
international space station's expedition

291
00:12:02,550 --> 00:11:58,720
15 he fulfilled the childhood dream to

292
00:12:05,110 --> 00:12:02,560
fly higher and explore the unknown

293
00:12:06,870 --> 00:12:05,120
i wish the same like to all those young

294
00:12:08,790 --> 00:12:06,880
guys who dream

295
00:12:11,190 --> 00:12:08,800
to reach the stars there are no

296
00:12:13,110 --> 00:12:11,200
limitations it's all in your hands

297
00:12:14,710 --> 00:12:13,120
you're capable of doing it and nothing

298
00:12:16,949 --> 00:12:14,720
is impossible

299
00:12:18,949 --> 00:12:16,959
soichi naguchi was one of those young

300
00:12:21,110 --> 00:12:18,959
guys with such dreams

301
00:12:23,590 --> 00:12:21,120
the yokohama native raised in nearby

302
00:12:26,230 --> 00:12:23,600
chigasaki got hooked on space and

303
00:12:28,389 --> 00:12:26,240
adventures early on he was just in the

304
00:12:29,509 --> 00:12:28,399
first grade when he explained his future

305
00:12:31,670 --> 00:12:29,519
dreams

306
00:12:33,430 --> 00:12:31,680
i want to become a rocket pilot because

307
00:12:34,790 --> 00:12:33,440
i want to know various things about

308
00:12:37,590 --> 00:12:34,800
space

309
00:12:38,710 --> 00:12:37,600
well i really like

310
00:12:40,550 --> 00:12:38,720
all the

311
00:12:43,590 --> 00:12:40,560
rockets and

312
00:12:46,150 --> 00:12:43,600
spacecrafts and space adventures when i

313
00:12:49,190 --> 00:12:46,160

was a childhood i watched all the movies

314
00:12:51,990 --> 00:12:49,200
like star wars or star treks or the

315
00:12:54,310 --> 00:12:52,000
japanese anime which

316
00:12:56,550 --> 00:12:54,320
maintained with the space adventure

317
00:12:59,030 --> 00:12:56,560
naguchi kept his interest in space as he

318
00:13:01,110 --> 00:12:59,040
grew up in the 70s and early 80s and

319
00:13:03,430 --> 00:13:01,120
that interest came into focus one day

320
00:13:07,110 --> 00:13:03,440
during his freshman year in high school

321
00:13:09,750 --> 00:13:07,120
i saw the space shuttle sts-1 go up

322
00:13:10,870 --> 00:13:09,760
on television and i thought wow this is

323
00:13:13,269 --> 00:13:10,880
a great

324
00:13:16,310 --> 00:13:13,279
carrier great profession i wonder if i

325
00:13:17,430 --> 00:13:16,320
can be someday like a space

326
00:13:19,590 --> 00:13:17,440
traveler

327
00:13:20,550 --> 00:13:19,600
there weren't any japanese astronauts

328
00:13:22,870 --> 00:13:20,560
then

329
00:13:25,430 --> 00:13:22,880
but naguchi got his pilot's license and

330
00:13:27,509 --> 00:13:25,440
concentrated on space-related technology

331
00:13:29,350 --> 00:13:27,519
in his studies for a bachelor's and a

332
00:13:32,230 --> 00:13:29,360
master's degree in aeronautical

333
00:13:34,389 --> 00:13:32,240
engineering at the university of tokyo

334
00:13:36,790 --> 00:13:34,399
japanese astronauts did finally fly in

335
00:13:39,030 --> 00:13:36,800
space during naguchi's five years in

336
00:13:40,550 --> 00:13:39,040
private industry designing and testing

337
00:13:43,430 --> 00:13:40,560
aircraft engines

338
00:13:45,350 --> 00:13:43,440

in 1996 the japanese space agency

339
00:13:47,990 --> 00:13:45,360
selected him for astronaut training at

340
00:13:50,230 --> 00:13:48,000
nasa's johnson space center in houston

341
00:13:52,069 --> 00:13:50,240
his first trip to space was on the space

342
00:13:55,829 --> 00:13:52,079
shuttle's return to flight mission in

343
00:13:58,069 --> 00:13:55,839
2005 when he made three spacewalks what

344
00:14:00,230 --> 00:13:58,079
we are doing is definitely motivate the

345
00:14:02,550 --> 00:14:00,240
uh the young kids like

346
00:14:03,990 --> 00:14:02,560
i wasn't motivated by watching the

347
00:14:06,310 --> 00:14:04,000
shuttle go up

348
00:14:07,350 --> 00:14:06,320
and pursue my scientific

349
00:14:08,389 --> 00:14:07,360
career

350
00:14:10,550 --> 00:14:08,399
so

351
00:14:13,910 --> 00:14:10,560
i hope that the younger generation by

352
00:14:17,030 --> 00:14:13,920
watching us and the space station

353
00:14:21,189 --> 00:14:17,040
motivated yet motivated and pursue their

354
00:14:23,670 --> 00:14:21,199
career for the science and technology

355
00:14:25,269 --> 00:14:23,680
u.s army colonel t.j creamer had a

356
00:14:28,230 --> 00:14:25,279
boyhood interest in science and

357
00:14:29,430 --> 00:14:28,240
technology but the astronaut part came

358
00:14:32,230 --> 00:14:29,440
much later

359
00:14:34,790 --> 00:14:32,240
he was born at fort huachuca arizona

360
00:14:36,870 --> 00:14:34,800
just the first of dozens of homes for a

361
00:14:38,389 --> 00:14:36,880
child of the military well i started

362
00:14:39,829 --> 00:14:38,399
bouncing around with dad because dad was

363
00:14:41,509 --> 00:14:39,839

in the army and

364
00:14:43,670 --> 00:14:41,519
to complete that thought i think i've

365
00:14:45,350 --> 00:14:43,680
moved 23 times to get to houston

366
00:14:46,310 --> 00:14:45,360
with his military career and my military

367
00:14:48,550 --> 00:14:46,320
career

368
00:14:50,310 --> 00:14:48,560
by the time his parents retired and the

369
00:14:52,710 --> 00:14:50,320
family settled in upper marlboro

370
00:14:54,870 --> 00:14:52,720
maryland creamer was taking steps on a

371
00:14:56,790 --> 00:14:54,880
road that would lead to his career

372
00:14:57,590 --> 00:14:56,800
in elementary intermediate and high

373
00:14:59,110 --> 00:14:57,600
school

374
00:15:01,350 --> 00:14:59,120
my instructors

375
00:15:02,389 --> 00:15:01,360
my teachers urged me into the math and

376
00:15:05,030 --> 00:15:02,399
sciences

377
00:15:07,509 --> 00:15:05,040
i had an act i enjoyed it they pushed me

378
00:15:09,269 --> 00:15:07,519
in towards the scientific realm i'm old

379
00:15:11,030 --> 00:15:09,279
enough to actually have seen neil

380
00:15:13,110 --> 00:15:11,040
armstrong walk on the moon so there's

381
00:15:15,269 --> 00:15:13,120
another yet another spark

382
00:15:17,670 --> 00:15:15,279
after finishing his bachelor's degree in

383
00:15:19,829 --> 00:15:17,680
chemistry at loyola college in baltimore

384
00:15:22,230 --> 00:15:19,839
while a member of the rotc

385
00:15:24,550 --> 00:15:22,240
creamer started his army career in the

386
00:15:26,790 --> 00:15:24,560
armor branch before completing army

387
00:15:29,110 --> 00:15:26,800
aviation school and being assigned as a

388
00:15:31,509 --> 00:15:29,120

helicopter pilot he later earned a

389
00:15:34,069 --> 00:15:31,519
masters in physics at mit

390
00:15:35,670 --> 00:15:34,079
and taught physics at west point

391
00:15:38,069 --> 00:15:35,680
and when he chose research and

392
00:15:39,670 --> 00:15:38,079
development as a secondary specialty

393
00:15:40,949 --> 00:15:39,680
creamer began receiving a new

394
00:15:43,350 --> 00:15:40,959
publication

395
00:15:44,389 --> 00:15:43,360
the first issue i got the inside back

396
00:15:46,629 --> 00:15:44,399
cover

397
00:15:49,030 --> 00:15:46,639
had an article that was entitled the

398
00:15:50,790 --> 00:15:49,040
typical profile of an army astronaut and

399
00:15:52,470 --> 00:15:50,800
i read through that article and those

400
00:15:54,310 --> 00:15:52,480
little sparks all along the way they

401
00:15:55,430 --> 00:15:54,320
kind of erupted into a flame and i went

402
00:15:57,829 --> 00:15:55,440
ooh

403
00:15:59,269 --> 00:15:57,839
this sounds very close to what i've been

404
00:16:00,550 --> 00:15:59,279
tracking and doing

405
00:16:02,310 --> 00:16:00,560
unknowingly

406
00:16:04,949 --> 00:16:02,320
he was assigned to the johnson space

407
00:16:07,509 --> 00:16:04,959
center in 1995 as a space shuttle

408
00:16:09,749 --> 00:16:07,519
vehicle integration test engineer and in

409
00:16:11,110 --> 00:16:09,759
1998 he was selected to join the

410
00:16:12,710 --> 00:16:11,120
astronaut corps

411
00:16:23,910 --> 00:16:12,720
this trip to the international space

412
00:16:31,189 --> 00:16:24,790
uh

413
00:16:33,670 --> 00:16:31,199

feature of the five men who

414
00:16:35,509 --> 00:16:33,680
soon will be united with one another

415
00:16:37,350 --> 00:16:35,519
we're in the home stretch of the final

416
00:16:38,790 --> 00:16:37,360
leak checks to ensure a tight seal

417
00:16:41,030 --> 00:16:38,800
between the two vehicles that will

418
00:16:43,030 --> 00:16:41,040
permit the opening of the hatches

419
00:16:44,389 --> 00:16:43,040
between the earth-facing port of the

420
00:16:45,430 --> 00:16:44,399
zarya module

421
00:16:48,550 --> 00:16:45,440
and the

422
00:16:50,470 --> 00:16:48,560
soyuz tma-17 that docked

423
00:16:53,350 --> 00:16:50,480
to zarya

424
00:16:56,389 --> 00:16:53,360
one hour and 28 minutes ago the crew on

425
00:16:59,590 --> 00:16:56,399
board the soyuz alex tj creamer and

426
00:17:03,110 --> 00:16:59,600
soichi niguchi have taken off of their

427
00:17:05,270 --> 00:17:03,120
sokol launch and entry suits uh they uh

428
00:17:06,309 --> 00:17:05,280
have begun the drying process of those

429
00:17:07,990 --> 00:17:06,319
suits

430
00:17:09,750 --> 00:17:08,000
a couple of hours from now they'll move

431
00:17:12,630 --> 00:17:09,760
into the deactivation of the soyuz

432
00:17:14,949 --> 00:17:12,640
systems uh once uh they have completed a

433
00:17:17,270 --> 00:17:14,959
safety briefing that will be conducted

434
00:17:19,829 --> 00:17:17,280
by expedition 22 commander jeff williams

435
00:17:21,429 --> 00:17:19,839
that you saw in the destiny laboratory

436
00:17:23,029 --> 00:17:21,439
of the international space station just

437
00:17:25,189 --> 00:17:23,039
a moment or two ago

438
00:17:27,510 --> 00:17:25,199

you're looking uh from a camera that is

439
00:17:29,590 --> 00:17:27,520
set up in the unity module the unity

440
00:17:32,070 --> 00:17:29,600
connecting node of the international

441
00:17:34,070 --> 00:17:32,080
space station is jeff williams uh

442
00:17:36,230 --> 00:17:34,080
flies through the destiny laboratory and

443
00:17:38,310 --> 00:17:36,240
into the hatchway of unity

444
00:17:39,669 --> 00:17:38,320
as they are setting up cameras uh for

445
00:17:42,789 --> 00:17:39,679
the opening of the hatches and the

446
00:17:46,070 --> 00:17:42,799
welcoming ceremony between the two crews

447
00:17:49,029 --> 00:17:46,080
that will also include congratulatory

448
00:17:51,029 --> 00:17:49,039
calls from russian uh u.s and japanese

449
00:17:53,430 --> 00:17:51,039
officials on the balcony of the russia

450
00:17:55,510 --> 00:17:53,440
mission control center here in karayoff

451
00:17:57,350 --> 00:17:55,520
as well as a greeting from their

452
00:17:58,950 --> 00:17:57,360
families you see uh

453
00:18:00,230 --> 00:17:58,960
the distinguished guests up in the

454
00:18:02,070 --> 00:18:00,240
balcony

455
00:18:03,590 --> 00:18:02,080
including bill gerstenmaier who's the

456
00:18:05,750 --> 00:18:03,600
associate administrator for space

457
00:18:08,070 --> 00:18:05,760
operations from nasa headquarters

458
00:18:09,830 --> 00:18:08,080
peggy whitson uh

459
00:18:11,750 --> 00:18:09,840
he's on the balcony as well the chief of

460
00:18:13,430 --> 00:18:11,760
the astronaut office at the johnson

461
00:18:15,990 --> 00:18:13,440
space center and a former expedition

462
00:18:18,310 --> 00:18:16,000
commander of expedition 16 aboard the

463
00:18:20,310 --> 00:18:18,320

international space station uh whitson

464
00:18:22,230 --> 00:18:20,320
uh on hand for the launch at the

465
00:18:23,750 --> 00:18:22,240
baikonur cosmodrome in kazakhstan a

466
00:18:26,390 --> 00:18:23,760
couple of days ago

467
00:18:28,710 --> 00:18:26,400
uh flying back from baikonur uh to

468
00:18:31,110 --> 00:18:28,720
moscow and now uh joining others in the

469
00:18:34,150 --> 00:18:31,120
control center as we set up for those

470
00:18:35,909 --> 00:18:34,160
congratulatory calls once the crew uh

471
00:18:38,870 --> 00:18:35,919
the two crews have had an opportunity to

472
00:18:40,549 --> 00:18:38,880
say hello to one another and gather in

473
00:18:42,310 --> 00:18:40,559
the russian segment of the international

474
00:18:45,350 --> 00:18:42,320
space station to accept those

475
00:18:47,590 --> 00:18:45,360
congratulatory calls

476
00:18:49,430 --> 00:18:47,600
the rest of the day's activities will

477
00:18:51,830 --> 00:18:49,440
call for the deactivation again of the

478
00:18:53,830 --> 00:18:51,840
soyuz systems just before 9 pm central

479
00:18:55,669 --> 00:18:53,840
time tonight the completion of the

480
00:18:58,870 --> 00:18:55,679
drying out of the so-called launch and

481
00:19:01,190 --> 00:18:58,880
entry suits that creamer kotov and the

482
00:19:04,230 --> 00:19:01,200
gucci wore for launch two days ago and

483
00:19:07,430 --> 00:19:04,240
for today's docking activities

484
00:19:10,630 --> 00:19:07,440
it will be the transfer of some of the

485
00:19:12,390 --> 00:19:10,640
cargo that was stowed in the uh soyuz

486
00:19:13,909 --> 00:19:12,400
vehicle for the launch

487
00:19:15,590 --> 00:19:13,919
from the baikonur cosmodrome in

488
00:19:17,909 --> 00:19:15,600

kazakhstan to be moved across the

489
00:19:20,230 --> 00:19:17,919
hatchway to the international space

490
00:19:25,350 --> 00:19:20,240
station the two crews are scheduled to

491
00:19:29,990 --> 00:19:28,230
2 am central time on wednesday morning

492
00:19:31,750 --> 00:19:30,000
basically wednesday will be a complete

493
00:19:34,549 --> 00:19:31,760
off-duty day for the crew we don't

494
00:19:36,789 --> 00:19:34,559
expect much conversation between ground

495
00:19:38,470 --> 00:19:36,799
controllers and the five crew members on

496
00:19:40,549 --> 00:19:38,480
board the international space station a

497
00:19:42,630 --> 00:19:40,559
full day of rest for them before they

498
00:19:45,190 --> 00:19:42,640
press back into a normal complement of

499
00:19:47,510 --> 00:19:45,200
activities on christmas eve on thursday

500
00:19:49,669 --> 00:19:47,520
as they begin to orient themselves with

501
00:19:52,150 --> 00:19:49,679
station systems that being kotov creamer

502
00:19:55,510 --> 00:19:52,160
and gucci as well as pressing back into

503
00:19:59,350 --> 00:19:57,029
complement of work

504
00:20:01,590 --> 00:19:59,360
that is standard daily operation on

505
00:20:03,510 --> 00:20:01,600
board the international space station

506
00:20:06,470 --> 00:20:03,520
this is going to be an extremely busy

507
00:20:09,750 --> 00:20:06,480
time for this newly expanded expedition

508
00:20:12,549 --> 00:20:09,760
22 crew in early january pressurized

509
00:20:13,990 --> 00:20:12,559
mating adapter number three will be

510
00:20:16,310 --> 00:20:14,000
relocated

511
00:20:19,029 --> 00:20:16,320
from the port side of the unity module

512
00:20:21,669 --> 00:20:19,039
to the nader or earth-facing side of

513
00:20:24,230 --> 00:20:21,679

unity that will clear the port side of

514
00:20:26,390 --> 00:20:24,240
unity to accept the tranquility

515
00:20:28,310 --> 00:20:26,400
connecting node node three

516
00:20:29,990 --> 00:20:28,320
and the attached cupola

517
00:20:31,510 --> 00:20:30,000
once it has flown aboard the shuttle

518
00:20:34,070 --> 00:20:31,520
endeavor to the international space

519
00:20:36,390 --> 00:20:34,080
station on the sts-130 mission that is

520
00:20:38,470 --> 00:20:36,400
scheduled for launch on february 7th

521
00:20:41,029 --> 00:20:38,480
from the kennedy space center before

522
00:20:43,110 --> 00:20:41,039
that takes place however alec kotov and

523
00:20:45,350 --> 00:20:43,120
max cerayev are scheduled to conduct a

524
00:20:47,350 --> 00:20:45,360
six-hour spacewalk in russian orlan

525
00:20:50,470 --> 00:20:47,360
spacesuits out of the piers docking

526
00:20:53,590 --> 00:20:50,480
compartment airlock on january 14 that

527
00:20:56,070 --> 00:20:53,600
uh spacewalk exclusively devoted to the

528
00:20:59,590 --> 00:20:56,080
setting up of docking equipment and

529
00:21:02,390 --> 00:20:59,600
docking targets on the new poisk module

530
00:21:04,789 --> 00:21:02,400
the mini research module 2 that was

531
00:21:06,870 --> 00:21:04,799
automatically linked up to the

532
00:21:09,350 --> 00:21:06,880
space-facing port of the zvezda service

533
00:21:11,270 --> 00:21:09,360
module back on november 12 to serve as

534
00:21:14,149 --> 00:21:11,280
another docking port for arriving

535
00:21:16,310 --> 00:21:14,159
russian vehicles and ultimately as a

536
00:21:18,470 --> 00:21:16,320
another airlock for russian-based

537
00:21:20,549 --> 00:21:18,480
spacewalks at the international space

538
00:21:21,590 --> 00:21:20,559

station

539
00:21:24,230 --> 00:21:21,600
in uh

540
00:21:27,190 --> 00:21:24,240
completing the spacewalk on january 14th

541
00:21:30,789 --> 00:21:27,200
cereal and kotov will set the stage for

542
00:21:33,190 --> 00:21:30,799
the detachment of the tma16 the soyuz

543
00:21:36,149 --> 00:21:33,200
vehicle that uh williams and max cerav

544
00:21:38,470 --> 00:21:36,159
were launched in on september 30th from

545
00:21:40,470 --> 00:21:38,480
baikonur that is now currently linked to

546
00:21:42,710 --> 00:21:40,480
the aft docking port of the zvezda

547
00:21:45,750 --> 00:21:42,720
service module they will conduct a short

548
00:21:48,070 --> 00:21:45,760
fly around on january 20th and re-dock

549
00:21:50,390 --> 00:21:48,080
their soyuz spacecraft to the poisk

550
00:21:51,909 --> 00:21:50,400
module the first time that a spacecraft

551
00:21:55,110 --> 00:21:51,919
will have linked up

552
00:21:57,909 --> 00:21:55,120
to the open docking port of poisk so

553
00:22:00,789 --> 00:21:57,919
quite a bit of activity on tap for the

554
00:22:04,230 --> 00:22:00,799
expedition 22 crew and a five-man crew

555
00:22:06,710 --> 00:22:04,240
now uh that will soon be reunited uh

556
00:22:08,390 --> 00:22:06,720
with one another as we are anticipating

557
00:22:10,630 --> 00:22:08,400
the opening of the hatches a short time

558
00:22:14,870 --> 00:22:10,640
from now perhaps in the next

559
00:22:19,110 --> 00:22:17,190
hatch cover hatch cover is open on our

560
00:22:19,990 --> 00:22:19,120
side

561
00:22:24,149 --> 00:22:20,000
copy

562
00:22:31,110 --> 00:22:24,159
issuing f5 command

563
00:22:31,120 --> 00:22:41,510

yes of course

564
00:22:46,470 --> 00:22:43,350
as the international space station and

565
00:22:48,789 --> 00:22:46,480
its newly arrived soyuz spacecraft and

566
00:22:49,549 --> 00:22:48,799
three new residents of the space station

567
00:22:52,070 --> 00:22:49,559
fly

568
00:22:53,750 --> 00:22:52,080
220 miles above the earth moving from

569
00:22:55,350 --> 00:22:53,760
southwest to northeast across the heart

570
00:22:56,710 --> 00:22:55,360
of south america soon to cross the

571
00:22:59,270 --> 00:22:56,720
equator

572
00:23:01,350 --> 00:22:59,280
we are now hearing through the space to

573
00:23:03,830 --> 00:23:01,360
ground communications that the crews

574
00:23:06,070 --> 00:23:03,840
have begun the process of initiating the

575
00:23:08,230 --> 00:23:06,080
opening of the hatches hatches not yet

576
00:23:10,789 --> 00:23:08,240
open but uh the first steps are now

577
00:23:17,510 --> 00:23:10,799
being taken so we do expect the hatches

578
00:23:17,520 --> 00:23:29,510
well okay the backup options

579
00:23:33,909 --> 00:23:31,350
okay that means we

580
00:23:34,870 --> 00:23:33,919
we are not supposed to press line two in

581
00:23:42,950 --> 00:23:34,880
order to

582
00:23:55,669 --> 00:23:44,549
maximum standby

583
00:23:55,679 --> 00:24:16,950
just

584
00:24:21,669 --> 00:24:19,430
okay i found my answer it's everything

585
00:24:23,110 --> 00:24:21,679
is contained in the radiogram

586
00:24:24,710 --> 00:24:23,120
yes maxim we

587
00:24:27,750 --> 00:24:24,720
we're actually just reading this

588
00:24:29,669 --> 00:24:27,760

radiogram you are correct

589
00:24:34,470 --> 00:24:29,679
okay thank you

590
00:24:37,990 --> 00:24:36,789
were you reporting to us no i was just

591
00:24:41,029 --> 00:24:38,000
saying that

592
00:24:42,630 --> 00:24:41,039
we opened the hatch cover on our side uh

593
00:24:45,990 --> 00:24:42,640
not seeing

594
00:24:47,750 --> 00:24:46,000
delta probably

595
00:24:49,510 --> 00:24:47,760
seven five four is the pressure in the

596
00:24:56,230 --> 00:24:49,520
vehicle i understand your pressure is

597
00:25:12,870 --> 00:24:57,669
so fast quickly

598
00:25:12,880 --> 00:25:17,190
foreign

599
00:25:20,870 --> 00:25:19,430
should we wait until the scheduled time

600
00:25:23,590 --> 00:25:20,880
or

601
00:25:24,710 --> 00:25:23,600
perhaps we could open it up a little

602
00:25:36,630 --> 00:25:24,720
earlier

603
00:25:36,640 --> 00:25:42,710
we're talking to specialists

604
00:25:47,110 --> 00:25:45,350
i like kotov and max sarajev on either

605
00:25:48,710 --> 00:25:47,120
side of the docking interface checking

606
00:25:50,070 --> 00:25:48,720
with the russian flight control team

607
00:25:52,149 --> 00:25:50,080
here at the russian mission control

608
00:25:53,110 --> 00:25:52,159
center in korea

609
00:25:54,710 --> 00:25:53,120
we are

610
00:25:56,950 --> 00:25:54,720
swapping satellites on the tracking and

611
00:25:58,630 --> 00:25:56,960
data relay satellite system will be

612
00:26:01,909 --> 00:25:58,640
reacquiring a downlink television

613
00:26:04,710 --> 00:26:01,919

capability momentarily as they discuss

614
00:26:06,710 --> 00:26:04,720
perhaps an early opening of the hatches

615
00:26:08,230 --> 00:26:06,720
they were scheduled to open about 10

616
00:26:10,470 --> 00:26:08,240
minutes from now we may see those

617
00:26:12,950 --> 00:26:10,480
hatches swing open a bit earlier than

618
00:26:14,549 --> 00:26:12,960
planned to enable the two crews to greet

619
00:26:16,789 --> 00:26:14,559
one another and then press into a

620
00:26:19,350 --> 00:26:16,799
typical safety briefing to orient the

621
00:26:21,830 --> 00:26:19,360
newly arrived kotov creamer and gucci

622
00:26:24,470 --> 00:26:21,840
with the escape routes and all of the

623
00:26:26,470 --> 00:26:24,480
locations of critical

624
00:26:28,470 --> 00:26:26,480
items that are stowed in the various

625
00:26:32,390 --> 00:26:28,480
modules of the international space

626
00:26:32,400 --> 00:26:51,750
how do you copy

627
00:26:56,549 --> 00:26:54,310
in in the same way

628
00:26:59,510 --> 00:26:56,559
it was performed when you arrived at the

629
00:27:03,830 --> 00:26:59,520
station so without that

630
00:27:03,840 --> 00:27:17,830
you will

631
00:27:20,470 --> 00:27:19,430
did you

632
00:27:22,389 --> 00:27:20,480
activate

633
00:27:25,269 --> 00:27:22,399
the hardware

634
00:27:27,029 --> 00:27:25,279
mode in the uh channel

635
00:27:32,310 --> 00:27:27,039
no not yet

636
00:27:36,950 --> 00:27:34,789
but i will not be activating this

637
00:27:39,750 --> 00:27:36,960
hardware prior to the actual event in

638
00:27:42,470 --> 00:27:39,760

order to conserve

639
00:28:00,870 --> 00:27:42,480
the service life but i will go ahead and

640
00:28:00,880 --> 00:28:10,710
yes

641
00:28:14,630 --> 00:28:12,789
and if the lighting conditions will be

642
00:28:18,870 --> 00:28:14,640
acceptable we will leave it in this

643
00:28:25,510 --> 00:28:21,350
now the lighting is

644
00:28:25,520 --> 00:28:47,029
yes

645
00:28:51,510 --> 00:28:49,510
in space flight is made possible on the

646
00:28:53,909 --> 00:28:51,520
ground thank you guys

647
00:28:55,909 --> 00:28:53,919
okay we're off to retrieve everything

648
00:28:59,029 --> 00:28:55,919
needed for the event

649
00:29:00,070 --> 00:28:59,039
okay so first just without any capsule

650
00:29:02,230 --> 00:29:00,080
length

651
00:29:05,430 --> 00:29:02,240
max array of setting up cameras along

652
00:29:09,750 --> 00:29:06,710
in the russian segment of the

653
00:29:11,510 --> 00:29:09,760
international space station uh for the

654
00:29:14,149 --> 00:29:11,520
opening of the hatches between the two

655
00:29:16,070 --> 00:29:14,159
crews and the welcoming ceremony that

656
00:29:18,870 --> 00:29:16,080
will follow that will include

657
00:29:21,430 --> 00:29:18,880
congratulatory calls from russian

658
00:29:23,110 --> 00:29:21,440
u.s and japanese officials gathered here

659
00:29:25,190 --> 00:29:23,120
at the russian mission control center in

660
00:29:27,590 --> 00:29:25,200
korea outside moscow who are on the

661
00:29:30,149 --> 00:29:27,600
balcony overlooking the international

662
00:29:33,990 --> 00:29:30,159
space station flight control room here

663
00:29:37,029 --> 00:29:34,000

at uh the russian control center

664
00:29:39,350 --> 00:29:37,039
the docking of the soyuz tma-17 you can

665
00:29:40,630 --> 00:29:39,360
see this view of the dignitaries

666
00:29:42,310 --> 00:29:40,640
gathered

667
00:29:44,310 --> 00:29:42,320
in the balcony in the middle of your

668
00:29:46,470 --> 00:29:44,320
screen you can see just

669
00:29:48,950 --> 00:29:46,480
moving uh from

670
00:29:50,789 --> 00:29:48,960
right to left kawichi wakata who is on

671
00:29:53,269 --> 00:29:50,799
hand as part of the jackson delegation

672
00:29:54,870 --> 00:29:53,279
he was the first long duration japanese

673
00:29:56,230 --> 00:29:54,880
crew member on board the international

674
00:29:58,310 --> 00:29:56,240
space station

675
00:30:00,710 --> 00:29:58,320
momentarily soichi niguchi will be

676
00:30:03,029 --> 00:30:00,720
following in his footsteps entering the

677
00:30:27,830 --> 00:30:03,039
station to begin a half year on board

678
00:30:32,070 --> 00:30:30,549
and now uh you're looking uh

679
00:30:34,070 --> 00:30:32,080
inside uh the

680
00:30:37,669 --> 00:30:34,080
zarya module of the international space

681
00:31:06,870 --> 00:30:37,679
station is uh array of

682
00:31:12,230 --> 00:31:09,269
we'll be reacquiring uh our downlink

683
00:31:15,909 --> 00:31:12,240
television capability momentarily

684
00:31:18,389 --> 00:31:15,919
but the hatches did swing open

685
00:31:21,190 --> 00:31:18,399
at 6 30 pm central time

686
00:31:22,870 --> 00:31:21,200
3 30 a.m moscow time

687
00:31:25,269 --> 00:31:22,880
hatch is now open between the two

688
00:31:43,430 --> 00:31:25,279

vehicles as we await the initial

689
00:31:45,430 --> 00:31:44,230
and

690
00:31:47,750 --> 00:31:45,440
now

691
00:31:49,750 --> 00:31:47,760
you see soichi naguchi

692
00:31:51,750 --> 00:31:49,760
entering the international space station

693
00:31:54,870 --> 00:31:51,760
following uh

694
00:31:57,190 --> 00:31:54,880
the first greetings between uh

695
00:31:58,950 --> 00:31:57,200
tj creamer on the left

696
00:32:01,190 --> 00:31:58,960
i like kotov

697
00:32:03,269 --> 00:32:01,200
and you see max cerreo looking at the

698
00:32:05,350 --> 00:32:03,279
camera

699
00:32:08,230 --> 00:32:05,360
with the gucci right behind the hatches

700
00:33:03,190 --> 00:32:08,240
again opened at 6 30 p.m central time 3

701
00:33:03,200 --> 00:33:34,470
round one

702
00:33:34,480 --> 00:33:46,789
oh

703
00:33:46,799 --> 00:33:51,990
look at that

704
00:33:57,190 --> 00:33:54,230
the newly arrived crew members kotov

705
00:33:59,509 --> 00:33:57,200
creamer and naguchi uh have ducked

706
00:34:02,310 --> 00:33:59,519
momentarily back down into the soyuz

707
00:34:04,470 --> 00:34:02,320
vehicle the hatch was initially opened

708
00:34:07,590 --> 00:34:04,480
at 6 30 p.m central time will be

709
00:34:09,510 --> 00:34:07,600
reopened momentarily as the crew will

710
00:34:13,349 --> 00:34:09,520
formally greet one another

711
00:34:14,790 --> 00:34:13,359
to kick off a half year in orbit uh for

712
00:34:22,310 --> 00:34:14,800
the

713
00:34:28,629 --> 00:34:22,320

array of and expedition commander jeff

714
00:34:47,030 --> 00:34:29,829
supermarket

715
00:34:47,040 --> 00:34:57,750
iss moscow and space to ground one

716
00:35:03,349 --> 00:35:00,310
and coming down the soyuz chimney

717
00:35:05,589 --> 00:35:03,359
soyuz commander oleg kotov in the spirit

718
00:35:07,990 --> 00:35:05,599
of the holiday season

719
00:35:10,589 --> 00:35:08,000
wearing a santa hat carrying a wreath

720
00:35:23,349 --> 00:35:10,599
for the residents jeff williams and max

721
00:35:23,359 --> 00:35:38,150
one

722
00:35:56,829 --> 00:35:40,790
this is mission control moscow on space

723
00:36:02,950 --> 00:36:00,470
one and the christmas elf tj creamer on

724
00:36:04,550 --> 00:36:02,960
board at his home for the next half year

725
00:36:05,589 --> 00:36:04,560
the crew definitely in the christmas

726
00:36:07,589 --> 00:36:05,599
spirit

727
00:36:09,190 --> 00:36:07,599
as they have now joined jeff williams

728
00:36:13,990 --> 00:36:09,200
and max cerave and will be setting up

729
00:36:18,390 --> 00:36:16,550
go ahead we're moving into the service

730
00:36:20,310 --> 00:36:18,400
module so we'll call you back in three

731
00:36:23,270 --> 00:36:20,320
to five minutes maxim

732
00:36:25,349 --> 00:36:23,280
stand down on that for a second

733
00:36:27,670 --> 00:36:25,359
please play it back one more time

734
00:36:30,390 --> 00:36:27,680
because uh you started about five

735
00:36:31,750 --> 00:36:30,400
minutes early

736
00:36:33,990 --> 00:36:31,760
and uh

737
00:36:36,390 --> 00:36:34,000
you're gonna be closing the hatch now

738
00:36:42,390 --> 00:36:36,400

and you will need to open it again and

739
00:36:52,829 --> 00:36:44,310
and then on our go you will need to open

740
00:36:58,790 --> 00:36:55,750
ceremony okay uh in that case i'm

741
00:37:00,550 --> 00:36:58,800
closing the hatch now and then i will uh

742
00:37:01,990 --> 00:37:00,560
let you know when we're ready uh to

743
00:37:19,349 --> 00:37:02,000
reopen it

744
00:37:24,550 --> 00:37:22,069
for archival purposes the crew intends

745
00:37:26,390 --> 00:37:24,560
to reenact the hatch opening but uh the

746
00:37:29,270 --> 00:37:26,400
hatches actually swung open for the

747
00:37:32,550 --> 00:37:29,280
record at 6 30 p.m central time and four

748
00:37:34,390 --> 00:37:32,560
minutes later the crew came aboard

749
00:37:36,950 --> 00:37:34,400
splendidly uh

750
00:37:39,910 --> 00:37:36,960
garnered with santa hats carrying sacks

751
00:37:42,310 --> 00:37:39,920
of presents uh from the soyuz vehicle

752
00:37:44,069 --> 00:37:42,320
for jeff williams and max cera all five

753
00:37:45,430 --> 00:37:44,079
crew members on board the international

754
00:37:47,510 --> 00:37:45,440
space station

755
00:37:49,510 --> 00:37:47,520
to kick off the holiday season with one

756
00:38:09,510 --> 00:37:49,520
another and a complex expedition that

757
00:38:09,520 --> 00:38:44,470
okay

758
00:38:44,480 --> 00:38:53,670
um

759
00:38:56,710 --> 00:38:55,670
okay so are you ready to receive the

760
00:39:01,030 --> 00:38:56,720
video

761
00:39:04,630 --> 00:39:02,150
no no

762
00:39:07,430 --> 00:39:04,640
stand by for our go so go ahead and

763
00:39:09,670 --> 00:39:07,440

adjust the picture

764
00:39:21,670 --> 00:39:09,680
focus and so on but

765
00:39:25,589 --> 00:39:23,670
okay well we're ready basically are you

766
00:39:27,990 --> 00:39:25,599
seeing the hatch at this time

767
00:39:29,349 --> 00:39:28,000
yes we see the hatch but do not open it

768
00:39:30,150 --> 00:39:29,359
just yet

769
00:39:32,550 --> 00:39:30,160
wait

770
00:39:35,589 --> 00:39:32,560
for our uh go because we're still trying

771
00:39:37,430 --> 00:39:35,599
to seat the guests on the balcony

772
00:40:08,150 --> 00:39:37,440
but i don't think it's going to be too

773
00:40:12,550 --> 00:40:09,990
we're expecting uh the five crew members

774
00:40:14,870 --> 00:40:12,560
to be inside the zvezda service module

775
00:40:17,910 --> 00:40:14,880
uh just a few moments from now

776
00:40:20,309 --> 00:40:17,920
to accept congratulatory calls from

777
00:40:23,670 --> 00:40:20,319
russian u.s and japanese officials and

778
00:40:25,190 --> 00:40:23,680
their families gathered on the balcony

779
00:40:26,630 --> 00:40:25,200
overlooking the international space

780
00:40:28,790 --> 00:40:26,640
station flight control room here at the

781
00:40:31,109 --> 00:40:28,800
johnson space uh are here at the russian

782
00:40:33,670 --> 00:40:31,119
mission control center in curry off

783
00:40:36,829 --> 00:40:33,680
outside moscow again the hatch opened 10

784
00:40:40,309 --> 00:40:36,839
minutes ago at 6 30 p.m central

785
00:40:43,349 --> 00:40:40,319
time 42 minutes after a flawless docking

786
00:40:56,470 --> 00:40:43,359
that occurred at 4 48 pm central time

787
00:41:01,030 --> 00:40:58,390
the only thing i can do is bring one of

788
00:41:04,309 --> 00:41:01,040

their squares here and

789
00:41:07,190 --> 00:41:04,319
use it but i already set them all up

790
00:41:08,550 --> 00:41:07,200
for the uh

791
00:41:25,510 --> 00:41:08,560
commentary

792
00:41:29,270 --> 00:41:27,750
you know if we wait too much longer the

793
00:41:30,870 --> 00:41:29,280
guys are gonna

794
00:41:34,550 --> 00:41:30,880
get their

795
00:41:37,030 --> 00:41:34,560
feelings hurt and uh they won't come out

796
00:41:39,990 --> 00:41:37,040
the second time around yeah max team you

797
00:41:42,790 --> 00:41:40,000
know what let's just begin now

798
00:41:44,390 --> 00:41:42,800
okay so are you giving us a formal go to

799
00:41:45,990 --> 00:41:44,400
open the hatch now

800
00:41:47,430 --> 00:41:46,000
uh yes that is correct you're going to

801
00:41:50,150 --> 00:41:47,440
open the hatch

802
00:41:50,160 --> 00:41:52,950
that's a chance

803
00:41:52,960 --> 00:42:03,109
go ahead

804
00:42:03,119 --> 00:42:22,470
myself

805
00:42:26,950 --> 00:42:24,790
and once again now the crew floats

806
00:42:28,309 --> 00:42:26,960
through the hatch from the soyuz vehicle

807
00:42:30,230 --> 00:42:28,319
into the

808
00:42:32,230 --> 00:42:30,240
zarya module of the international space

809
00:42:33,670 --> 00:42:32,240
station led by soyuz commander oleg

810
00:42:35,829 --> 00:42:33,680
kotov

811
00:42:37,510 --> 00:42:35,839
arriving on board for his second

812
00:42:38,950 --> 00:42:37,520
six-month stint

813
00:42:41,829 --> 00:42:38,960

as a flight engineer first for

814
00:43:06,870 --> 00:42:41,839
expedition 22 and later as the commander

815
00:43:12,309 --> 00:43:09,109
from the japan aerospace exploration

816
00:43:12,319 --> 00:43:38,870
and tj creamer

817
00:43:43,430 --> 00:43:41,190
and the bird's eye view as

818
00:43:47,190 --> 00:43:43,440
jeff williams playing the role of camera

819
00:43:47,200 --> 00:43:52,550
moves from the azaria module

820
00:43:56,950 --> 00:43:55,270
back toward the zvezda service module

821
00:43:58,390 --> 00:43:56,960
for the welcoming ceremony that we

822
00:44:20,950 --> 00:43:58,400
expect to

823
00:44:26,390 --> 00:44:22,790
and the crew gathers now in the service

824
00:44:31,430 --> 00:44:29,109
there's your newly comprised trio

825
00:44:33,589 --> 00:44:31,440
kotov creamer and the gucci joined on

826
00:44:56,710 --> 00:44:33,599
the right by max cerav and jeff williams

827
00:44:56,720 --> 00:45:15,349
one

828
00:45:15,359 --> 00:45:29,910
yes go ahead

829
00:45:29,920 --> 00:45:37,109
uh

830
00:45:37,119 --> 00:45:58,710
how do you read us over

831
00:46:07,109 --> 00:46:01,670
dear friends we see you very well

832
00:46:07,119 --> 00:46:11,910
rejoining of uh

833
00:46:17,589 --> 00:46:14,790
iss crew and the soyuz crew

834
00:46:19,829 --> 00:46:17,599
i understand you will be meeting the new

835
00:46:21,910 --> 00:46:19,839
year together now

836
00:46:24,550 --> 00:46:21,920
and on behalf of

837
00:46:26,950 --> 00:46:24,560
mr permanente and myself i would like to

838
00:46:29,510 --> 00:46:26,960

wish you best of luck

839
00:46:32,710 --> 00:46:29,520
all the success in the world

840
00:46:33,510 --> 00:46:32,720
completion of all uh the tasks

841
00:46:36,069 --> 00:46:33,520
that

842
00:46:38,230 --> 00:46:36,079
have been assigned to you and

843
00:46:40,710 --> 00:46:38,240
with a great year and i'm passing it

844
00:46:42,710 --> 00:46:40,720
over now to mr gerstenmaier and i wish

845
00:46:45,349 --> 00:46:42,720
you all the best

846
00:46:47,270 --> 00:46:45,359
hello this is bill gerstenmaier hello

847
00:46:52,390 --> 00:46:47,280
this is john

848
00:46:56,550 --> 00:46:54,870
have a great christmas a good new year i

849
00:46:58,309 --> 00:46:56,560
can't think of a better family to have

850
00:46:59,829 --> 00:46:58,319
in space than you

851
00:47:01,510 --> 00:46:59,839
i'm here with your families here in the

852
00:47:05,670 --> 00:47:01,520
control center so of course i have a

853
00:47:09,030 --> 00:47:07,270
thank you guys it's good to hear your

854
00:47:11,430 --> 00:47:09,040
voice it's great to have these guys on

855
00:47:15,829 --> 00:47:11,440
board that completes the complement of

856
00:47:19,349 --> 00:47:17,670
thank you jeff and i'll pass it off to

857
00:47:30,870 --> 00:47:19,359
mr shiraki from

858
00:47:30,880 --> 00:48:03,430
is

859
00:48:03,440 --> 00:48:23,030
foreign

860
00:48:28,870 --> 00:48:25,349
we're so happy to see you aboard the

861
00:48:28,880 --> 00:48:33,270
daddy i'm so proud of you

862
00:48:33,280 --> 00:48:38,069
you're the best father in the world

863
00:48:42,150 --> 00:48:40,230

we wish you

864
00:48:45,750 --> 00:48:42,160
the best of luck

865
00:48:50,150 --> 00:48:47,270
thank you

866
00:48:51,829 --> 00:48:50,160
words

867
00:48:57,190 --> 00:48:51,839
i love you very much and i'll talk to

868
00:49:00,549 --> 00:48:59,109
i picked them out myself that's a good

869
00:49:02,470 --> 00:49:00,559
thing hey everything's doing really

870
00:49:04,630 --> 00:49:02,480
great here it's a it's better than great

871
00:49:08,069 --> 00:49:04,640
it's 154 times better than great so

872
00:49:10,790 --> 00:49:08,079
thanks for the uh the well wishes

873
00:49:13,430 --> 00:49:10,800
hey this is patrick um i wanted to wish

874
00:49:27,589 --> 00:49:13,440
you tonight merry christmas and hope you

875
00:49:27,599 --> 00:49:32,150
love all your your costumes

876
00:49:38,069 --> 00:49:34,470
i hope you have a out of this world

877
00:49:41,670 --> 00:49:39,670
hey thank you jamie and welcome to your

878
00:49:46,710 --> 00:49:41,680
first real snow by the way thank you

879
00:49:46,720 --> 00:50:05,589
hello

880
00:50:05,599 --> 00:50:24,309
thank you very much good job thanks

881
00:50:24,319 --> 00:51:32,790
merry christmas to you as well

882
00:51:32,800 --> 00:51:44,710
the receiver in my hands and uh

883
00:51:50,870 --> 00:51:47,270
we're taking care of your family uh

884
00:51:53,510 --> 00:51:50,880
they're doing well

885
00:51:56,549 --> 00:51:53,520
she will be coming again very soon to

886
00:51:57,910 --> 00:51:56,559
talk to you um one more time

887
00:51:59,109 --> 00:51:57,920
in a little bit

888
00:52:01,190 --> 00:51:59,119

so

889
00:52:03,430 --> 00:52:01,200
take care of yourself

890
00:52:05,109 --> 00:52:03,440
and have a great time

891
00:52:07,349 --> 00:52:05,119
thanks

892
00:52:11,270 --> 00:52:07,359
thank you very much say hi to your girls

893
00:52:15,190 --> 00:52:13,750
thank you for talking to us

894
00:52:16,470 --> 00:52:15,200
and uh

895
00:52:19,109 --> 00:52:16,480
on behalf of

896
00:52:25,109 --> 00:52:19,119
everybody in mission control center

897
00:52:27,430 --> 00:52:26,470
we are

898
00:52:29,750 --> 00:52:27,440
also

899
00:52:31,109 --> 00:52:29,760
uh joining in the congratulatory awards

900
00:52:33,750 --> 00:52:31,119
for you guys

901
00:52:35,430 --> 00:52:33,760
greetings and um we're preparing a

902
00:52:36,790 --> 00:52:35,440
little surprise for you you will be

903
00:52:39,430 --> 00:52:36,800
talking to

904
00:52:41,670 --> 00:52:39,440
santa claus or father frost uh in a

905
00:52:42,630 --> 00:52:41,680
little bit so um please get ready for

906
00:52:44,630 --> 00:52:42,640
that

907
00:52:46,630 --> 00:52:44,640
okay thank you very much

908
00:52:49,030 --> 00:52:46,640
good luck to you

909
00:53:27,030 --> 00:52:49,040
thank you

910
00:53:32,309 --> 00:53:30,950
are we done with the official portion

911
00:53:35,430 --> 00:53:32,319
of the event

912
00:53:36,630 --> 00:53:35,440
yes let us take you um off of the um big

913
00:53:39,030 --> 00:53:36,640

screen

914
00:53:51,109 --> 00:53:39,040
here in the flight control room

915
00:53:56,390 --> 00:53:53,589
this is mission control karyov the brief

916
00:53:57,829 --> 00:53:56,400
welcoming ceremony has been completed

917
00:54:00,069 --> 00:53:57,839
as the crew

918
00:54:01,990 --> 00:54:00,079
in their santa hats to mark the

919
00:54:04,069 --> 00:54:02,000
beginning of this holiday season in the

920
00:54:06,790 --> 00:54:04,079
zvezda service module

921
00:54:09,750 --> 00:54:06,800
accepting congratulations from russian

922
00:54:12,230 --> 00:54:09,760
u.s and japanese space officials nasa

923
00:54:14,470 --> 00:54:12,240
represented here this morning

924
00:54:16,230 --> 00:54:14,480
early morning moscow time by bill

925
00:54:17,750 --> 00:54:16,240
gerstenmaier the associate administrator

926
00:54:18,950 --> 00:54:17,760
for space operations at nasa

927
00:54:21,430 --> 00:54:18,960
headquarters

928
00:54:24,470 --> 00:54:21,440
jaxa the japan aerospace exploration

929
00:54:26,870 --> 00:54:24,480
agency represented by kuniaki shiraki

930
00:54:30,470 --> 00:54:26,880
the international space station program

931
00:54:32,630 --> 00:54:30,480
manager tj creamer the new nasa edition

932
00:54:35,430 --> 00:54:32,640
to the international space station uh

933
00:54:37,990 --> 00:54:35,440
received a quick congratulatory call

934
00:54:40,069 --> 00:54:38,000
from his wife peggy and his two sons

935
00:54:41,349 --> 00:54:40,079
patrick and jamie the niguchi family all

936
00:54:44,309 --> 00:54:41,359
for also

937
00:54:46,230 --> 00:54:44,319
saying hello to soichi niguchi beginning

938
00:54:48,069 --> 00:54:46,240

his second

939
00:54:50,390 --> 00:54:48,079
visit to the international space station

940
00:54:53,910 --> 00:54:50,400
the second long-duration japanese

941
00:54:55,349 --> 00:54:53,920
astronaut to fly on the orbital outpost

942
00:54:57,510 --> 00:54:55,359
the crew members shortly will be

943
00:54:59,829 --> 00:54:57,520
pressing into a safety briefing

944
00:55:02,710 --> 00:54:59,839
followed by the deactivation of soyuz

945
00:55:04,069 --> 00:55:02,720
systems in the tma17 spacecraft that

946
00:55:06,470 --> 00:55:04,079
brought them from the launch pad of the

947
00:55:09,109 --> 00:55:06,480
baikonur cosmodrome in kazakhstan

948
00:55:12,390 --> 00:55:09,119
early monday morning to a flawless

949
00:55:15,349 --> 00:55:12,400
docking at 4 48 p.m central time 1 48

950
00:55:17,109 --> 00:55:15,359
a.m moscow time followed an hour and 42

951
00:55:19,030 --> 00:55:17,119
minutes later by the opening of the

952
00:55:21,589 --> 00:55:19,040
hatches and the expansion of the