

1
00:00:19,990 --> 00:00:17,029
we have a good visual

2
00:00:21,750 --> 00:00:20,000
the target is shifted to the left a

3
00:00:34,389 --> 00:00:21,760
little bit

4
00:00:39,990 --> 00:00:37,990
the progress 55 that is on approach

5
00:00:41,350 --> 00:00:40,000
for docking to the station will remain

6
00:00:42,830 --> 00:00:41,360
linked up to the piers docking

7
00:00:44,709 --> 00:00:42,840
compartment until

8
00:00:48,549 --> 00:00:44,719
now

9
00:00:50,630 --> 00:00:48,559
july 22nd when it is scheduled to depart

10
00:00:52,470 --> 00:00:50,640
the other progress that resides at the

11
00:00:55,590 --> 00:00:52,480
international space station the iss

12
00:00:58,069 --> 00:00:55,600
progress 53 spacecraft

13
00:01:01,670 --> 00:00:58,079

is mated to the aft end of the zvezda

14

00:01:06,149 --> 00:01:01,680

service module it will undock on april

15

00:01:08,630 --> 00:01:06,159

23rd for a two-day back away free flight

16

00:01:12,149 --> 00:01:08,640

and then a re-approach for a re-docking

17

00:01:14,870 --> 00:01:12,159

to the aft end of zvezda on april 25th

18

00:01:17,190 --> 00:01:14,880

to test out some upgraded software

19

00:01:24,550 --> 00:01:17,200

modifications made to the coors

20

00:01:34,149 --> 00:01:28,390

at 30 minutes in the automatic amount 30

21

00:01:36,950 --> 00:01:36,149

send the command to allow okay there you

22

00:01:39,109 --> 00:01:36,960

go

23

00:01:40,950 --> 00:01:39,119

now just 50 meters away we'll be

24

00:01:42,950 --> 00:01:40,960

standing by momentarily for the

25

00:01:44,550 --> 00:01:42,960

retraction of the core's automated

26

00:01:47,510 --> 00:01:44,560

rendezvous antenna

27

00:01:48,469 --> 00:01:47,520

visually the arrange matches the

28

00:02:05,670 --> 00:01:48,479

measured

29

00:02:05,680 --> 00:02:29,030

42

30

00:02:33,750 --> 00:02:31,670

information on the readiness

31

00:02:35,670 --> 00:02:33,760

spectacular view over the pacific ocean

32

00:02:37,190 --> 00:02:35,680

of the progress as it closes in for its

33

00:02:39,350 --> 00:02:37,200

link up

34

00:02:53,190 --> 00:02:39,360

the core's automated rendezvous antenna

35

00:02:56,630 --> 00:02:55,110

just before contact and capture the

36

00:02:59,190 --> 00:02:56,640

international space station will be

37

00:03:02,309 --> 00:02:59,200

commanded to what is called free drift

38

00:03:04,710 --> 00:03:02,319

the disabling of any thruster activity

39

00:03:06,710 --> 00:03:04,720

so that we do not perturbate the

40

00:03:08,710 --> 00:03:06,720

station's orientation

41

00:03:11,430 --> 00:03:08,720

during the time that the progresses

42

00:03:20,869 --> 00:03:11,440

docking probe will slip into the docking

43

00:03:25,830 --> 00:03:24,869

45 meters range and point 14 for the

44

00:03:26,949 --> 00:03:25,840

rate

45

00:03:29,589 --> 00:03:26,959

approaching

46

00:03:31,270 --> 00:03:29,599

the target

47

00:03:32,390 --> 00:03:31,280

is about

48

00:03:36,869 --> 00:03:32,400

one degree

49

00:03:41,910 --> 00:03:39,509

from the center everything else else is

50

00:03:43,509 --> 00:03:41,920

nominal the approach indicator is

51
00:03:45,030 --> 00:03:43,519
nominal the

52
00:03:50,070 --> 00:03:45,040
the

53
00:03:51,750 --> 00:03:50,080
lighting is great we can see everything

54
00:03:52,789 --> 00:03:51,760
okay we copy

55
00:03:54,630 --> 00:03:52,799
yes

56
00:03:57,509 --> 00:03:54,640
we can see the

57
00:04:00,309 --> 00:03:57,519
vehicle very well

58
00:04:02,470 --> 00:04:00,319
the diamond shaped object near the

59
00:04:05,350 --> 00:04:02,480
crosshairs on this engineering view from

60
00:04:08,470 --> 00:04:05,360
the progresses tv camera is the docking

61
00:04:09,670 --> 00:04:08,480
target to which the automated rendezvous

62
00:04:12,390 --> 00:04:09,680
program

63
00:04:15,350 --> 00:04:12,400

does align this crosshaired

64

00:04:17,670 --> 00:04:15,360

view with the docking target itself that

65

00:04:19,110 --> 00:04:17,680

ensures the precise alignment of the

66

00:04:32,710 --> 00:04:19,120

docking probe

67

00:04:37,909 --> 00:04:34,070

thirty meters

68

00:04:53,830 --> 00:04:37,919

range and point fourteen rate

69

00:04:53,840 --> 00:04:59,590

all right

70

00:04:59,600 --> 00:05:24,629

and send the command to work

71

00:05:29,029 --> 00:05:26,629

everything going very smoothly with this

72

00:05:31,830 --> 00:05:29,039

automated approach by the progress 55

73

00:05:36,070 --> 00:05:31,840

now just 22 meters away from the piers

74

00:05:43,029 --> 00:05:37,350

confirm

75

00:05:47,749 --> 00:05:43,039

the resurrection command

76

00:05:53,110 --> 00:05:49,990

we visually confirm closing the two

77

00:05:55,749 --> 00:05:53,120

antennas and we see the role visually as

78

00:06:01,029 --> 00:05:58,790

okay the role goes away

79

00:06:02,390 --> 00:06:01,039

everything is nominal the target is in

80

00:06:04,390 --> 00:06:02,400

the center

81

00:06:05,110 --> 00:06:04,400

flying from southwest to northeast over

82

00:06:07,350 --> 00:06:05,120

the

83

00:06:10,070 --> 00:06:07,360

eastern pacific

84

00:06:12,390 --> 00:06:10,080

orbit inclined 51.6 degrees to either

85

00:06:14,070 --> 00:06:12,400

side of the equator

86

00:06:16,309 --> 00:06:14,080

the international space station and

87

00:06:19,270 --> 00:06:16,319

progress will be approaching the west

88

00:06:22,070 --> 00:06:19,280

coast of south america shortly

89

00:06:23,670 --> 00:06:22,080

uh 15 meters separating the progress

90

00:06:25,990 --> 00:06:23,680

from its destination

91

00:06:29,749 --> 00:06:26,000

the depot in the cross channel

92

00:06:35,270 --> 00:06:32,230

the crosshairs is

93

00:06:37,350 --> 00:06:35,280

probably a lesser than a one-fourth of a

94

00:06:38,870 --> 00:06:37,360

degree from the electronic

95

00:06:40,790 --> 00:06:38,880

crosshairs

96

00:06:42,150 --> 00:06:40,800

12 meters

97

00:06:54,710 --> 00:06:42,160

rate

98

00:06:59,589 --> 00:06:57,110

910 meters

99

00:07:01,430 --> 00:06:59,599

rate point 14

100

00:07:04,469 --> 00:07:01,440

roll selected

101
00:07:07,189 --> 00:07:04,479
progress now inside uh 10 meters

102
00:07:14,230 --> 00:07:07,199
as we stand by for contact and capture

103
00:07:19,189 --> 00:07:18,070
we have a rate at 0.17

104
00:07:22,870 --> 00:07:19,199
meters

105
00:07:25,510 --> 00:07:22,880
display 44 is nominal

106
00:07:27,990 --> 00:07:25,520
it's just amazing all other indicators

107
00:07:30,870 --> 00:07:28,000
match the nominal automatic mode

108
00:07:32,070 --> 00:07:30,880
good alignment good angles just six

109
00:07:34,469 --> 00:07:32,080
meters away

110
00:07:35,830 --> 00:07:34,479
short a burn of the depot in the cross

111
00:07:36,550 --> 00:07:35,840
channel

112
00:07:39,909 --> 00:07:36,560
for

113
00:07:41,670 --> 00:07:39,919

the minus one axis

114

00:07:43,510 --> 00:07:41,680

we visually

115

00:07:47,430 --> 00:07:43,520

confirm that the vehicle is very very

116

00:07:53,110 --> 00:07:50,390

we copy the target is nominal

117

00:07:57,189 --> 00:07:53,120

the display is nominal our range

118

00:07:58,790 --> 00:07:57,199

is 5 meters a rate point 13 visually

119

00:08:00,790 --> 00:07:58,800

the conditions

120

00:08:02,629 --> 00:08:00,800

match the nominal automatic final

121

00:08:04,390 --> 00:08:02,639

approach

122

00:08:10,150 --> 00:08:04,400

we copy

123

00:08:16,550 --> 00:08:11,270

we are

124

00:08:23,270 --> 00:08:20,150

contact confirmed docking confirmed

125

00:08:24,869 --> 00:08:23,280

at 4 14 pm central time

126

00:08:26,390 --> 00:08:24,879

we copy

127

00:08:29,510 --> 00:08:26,400

as the progress of the international

128

00:08:31,510 --> 00:08:29,520

space station flew 260 statute miles

129

00:08:52,070 --> 00:08:31,520

over the eastern pacific just off the

130

00:08:56,790 --> 00:08:55,350

a silky smooth six-hour venture

131

00:08:59,030 --> 00:08:56,800

from the launch pad of the baikonur

132

00:09:01,990 --> 00:08:59,040

cosmodrome to the international space

133

00:09:05,350 --> 00:09:02,000

station an automated approach in

134

00:09:08,150 --> 00:09:05,360

flawless fashion for the iss progress 55

135

00:09:10,470 --> 00:09:08,160

cargo ship delivering almost three tons

136

00:09:29,030 --> 00:09:10,480

of food fuel and supplies for the

137

00:09:51,190 --> 00:09:29,910

and

138

00:09:52,949 --> 00:09:51,200

is a flight to the international space

139

00:09:55,670 --> 00:09:52,959

station

140

00:09:57,670 --> 00:09:55,680

the hooks are reported to be driving to

141

00:10:00,870 --> 00:09:57,680

form a hard mate between the progress

142

00:10:02,069 --> 00:10:00,880

and the piers docking compartment

143

00:10:05,350 --> 00:10:02,079

once again

144

00:10:08,150 --> 00:10:05,360

once hooks are closed uh the crew

145

00:10:10,870 --> 00:10:08,160

will take a breather and we'll move into

146

00:10:12,550 --> 00:10:10,880

a period of leak checks tomorrow morning

147

00:10:13,910 --> 00:10:12,560

after they wake up

148

00:10:16,230 --> 00:10:13,920

with the opening of the hatch to the

149

00:10:20,550 --> 00:10:16,240

progress expected about 5 a.m central

150

00:10:24,230 --> 00:10:22,389

there's your configuration of the

151
00:10:26,310 --> 00:10:24,240
international space station right now

152
00:10:28,150 --> 00:10:26,320
two soyuz vehicles

153
00:10:30,790 --> 00:10:28,160
for the six crew members on board as

154
00:10:32,389 --> 00:10:30,800
their return craft and two progress

155
00:10:34,310 --> 00:10:32,399
resupply vehicles

156
00:10:37,350 --> 00:10:34,320
a

157
00:10:39,269 --> 00:10:37,360
fifth resupply uh ship

158
00:10:40,310 --> 00:10:39,279
another resupply ship and a fifth

159
00:10:42,150 --> 00:10:40,320
vehicle

160
00:10:44,310 --> 00:10:42,160
will be arriving just one week from

161
00:10:47,829 --> 00:10:44,320
today at the international space station

162
00:10:49,590 --> 00:10:47,839
that being the spacex dragon cargo ship

163
00:10:52,470 --> 00:10:49,600

that is scheduled to be launched atop a

164

00:10:56,790 --> 00:10:52,480

falcon 9 rocket from the cape canaveral

165

00:10:56,800 --> 00:11:02,069

hello guys can you hear me good evening

166

00:11:05,829 --> 00:11:03,350

yes

167

00:11:10,550 --> 00:11:07,829

we can hear you loud and clear okay well

168

00:11:17,829 --> 00:11:10,560

congratulations

169

00:11:22,870 --> 00:11:19,430

mr lapoda

170

00:11:25,509 --> 00:11:22,880

also wish to join me in the

171

00:11:27,190 --> 00:11:25,519

in my congratulations to you on this

172

00:11:29,030 --> 00:11:27,200

successful docking this is a great

173

00:11:31,269 --> 00:11:29,040

present for the

174

00:11:34,069 --> 00:11:31,279

cosmonautics day okay thank you very

175

00:11:40,230 --> 00:11:34,079

much for your nice words

176

00:11:45,430 --> 00:11:42,949

participating it's been great everything

177

00:11:48,949 --> 00:11:45,440

went very smoothly yes

178

00:11:50,870 --> 00:11:48,959

misha we have been watching and it

179

00:11:52,230 --> 00:11:50,880

doesn't happen very often when we have

180

00:12:04,550 --> 00:11:52,240

such a smooth

181

00:12:15,269 --> 00:12:08,470

okay well wait until tomorrow until 1500

182

00:12:20,790 --> 00:12:17,910

right now you guys can uh treat yourself

183

00:12:28,389 --> 00:12:20,800

to some candy and go to bed

184

00:12:34,629 --> 00:12:31,030

we know how to wait i'm sure we can wait

185

00:12:34,639 --> 00:12:38,310

okay well again

186

00:12:42,870 --> 00:12:40,310

thank you and congratulations for the

187

00:12:44,790 --> 00:12:42,880

excellent work and uh we'll talk to you

188

00:12:47,430 --> 00:12:44,800

next time thank you for your nice words

189

00:12:49,670 --> 00:12:47,440

congratulations to everyone because

190

00:12:51,509 --> 00:12:49,680

it was a joint activity so it's great to

191

00:14:41,269 --> 00:12:51,519

see that our effort has been so

192

00:14:41,279 --> 00:14:54,470

mission control moscow calling on space

193

00:15:04,870 --> 00:14:57,350

is completed you have our go

194

00:15:10,710 --> 00:15:07,269

the activation okay we copy and we will

195

00:15:14,310 --> 00:15:13,030

so we turn

196

00:15:31,910 --> 00:15:14,320

off

197

00:15:35,430 --> 00:15:33,910

this is mission control houston just to

198

00:15:37,269 --> 00:15:35,440

recap

199

00:15:40,710 --> 00:15:37,279

a picture-perfect

200

00:15:44,069 --> 00:15:40,720

day for the iss progress 55 resupply

201
00:15:47,670 --> 00:15:44,079
vehicle the unpiloted cargo craft that

202
00:15:50,069 --> 00:15:47,680
launched at 10 26 a.m central time 9 26

203
00:15:53,430 --> 00:15:50,079
p.m at the baikonur cosmodrome in

204
00:15:55,910 --> 00:15:53,440
kazakhstan uh a flawless ascent to orbit

205
00:15:57,990 --> 00:15:55,920
and a

206
00:15:59,829 --> 00:15:58,000
textbook rendezvous executed

207
00:16:01,749 --> 00:15:59,839
automatically by the progress as

208
00:16:05,030 --> 00:16:01,759
computers all of the rendezvous burns

209
00:16:06,550 --> 00:16:05,040
were on the money on target resulting in

210
00:16:10,470 --> 00:16:06,560
a docking that occurred just a few

211
00:16:12,150 --> 00:16:10,480
minutes ago at 4 14 p.m central time as

212
00:16:16,230 --> 00:16:12,160
the progress in the international space

213
00:16:19,430 --> 00:16:16,240

station flew 260 statute miles over the

214

00:16:21,189 --> 00:16:19,440

eastern pacific just west of peru

215

00:16:23,350 --> 00:16:21,199

we now have confirmation that the hooks

216

00:16:25,670 --> 00:16:23,360

are closed to form a hard mate between

217

00:16:27,590 --> 00:16:25,680

the two vehicles the crew on board the

218

00:16:30,230 --> 00:16:27,600

station particularly the russian

219

00:16:33,590 --> 00:16:30,240

cosmonauts mikhail tyrion alexander

220

00:16:35,829 --> 00:16:33,600

skvartsov and oleg artemyev received

221

00:16:38,150 --> 00:16:35,839

congratulations from the head of the

222

00:16:41,829 --> 00:16:38,160

russian federal space agency oleg

223

00:16:44,230 --> 00:16:41,839

stampenko and the head of rsc and nergia

224

00:16:46,629 --> 00:16:44,240

which is in charge of mission operations

225

00:16:48,829 --> 00:16:46,639

uh that being vitali lapota

226

00:16:51,910 --> 00:16:48,839

offering congratulations on the

227

00:16:53,829 --> 00:16:51,920

successful launch rendezvous and docking

228

00:16:55,110 --> 00:16:53,839

of the progress to the piers docking

229

00:16:57,590 --> 00:16:55,120

compartment

230

00:16:59,590 --> 00:16:57,600

just three days before the celebration

231

00:17:02,389 --> 00:16:59,600

of cosmonautics day

232

00:17:04,949 --> 00:17:02,399

the very very important uh holiday that

233

00:17:07,429 --> 00:17:04,959

is celebrated in russia to commemorate

234

00:17:08,949 --> 00:17:07,439

the launch of yuri gagarin on april 12

235

00:17:11,350 --> 00:17:08,959

1961

236

00:17:14,150 --> 00:17:11,360

uh who became the first human to fly in

237

00:17:16,630 --> 00:17:14,160

space launching from the same launch pad

238

00:17:20,630 --> 00:17:16,640

that the progress 55 began its journey

239

00:17:23,510 --> 00:17:20,640

from just six hours ago cosmonautics day

240

00:17:27,669 --> 00:17:23,520

this year marking the 53rd anniversary

241

00:17:30,630 --> 00:17:28,950

so with that

242

00:17:32,630 --> 00:17:30,640

we will wrap up our coverage with a

243

00:17:35,430 --> 00:17:32,640

couple of programming notes

244

00:17:37,990 --> 00:17:35,440

tomorrow morning at 7 15 a.m central

245

00:17:40,630 --> 00:17:38,000

time 8 15 a.m eastern time

246

00:17:43,669 --> 00:17:40,640

we will have a in-flight event for the

247

00:17:46,390 --> 00:17:43,679

japan aerospace exploration agency that

248

00:17:49,029 --> 00:17:46,400

will involve koichi bakata the first

249

00:17:51,750 --> 00:17:49,039

japanese commander of the international

250

00:17:55,350 --> 00:17:51,760

space station who has

251

00:17:57,270 --> 00:17:55,360

just a few weeks left on orbit he and

252

00:17:59,669 --> 00:17:57,280

nasa flight engineer steve swanson and

253

00:18:01,990 --> 00:17:59,679

russian cosmonaut mikhail turin who

254

00:18:04,630 --> 00:18:02,000

wakata launched with back on november

255

00:18:07,350 --> 00:18:04,640

7th of last year they will receive a

256

00:18:10,150 --> 00:18:07,360

congratulatory call from the japanese

257

00:18:12,630 --> 00:18:10,160

prime minister shinzo abe along with

258

00:18:14,630 --> 00:18:12,640

other officials and u.s ambassador to

259

00:18:17,029 --> 00:18:14,640

japan caroline kennedy

260

00:18:19,909 --> 00:18:17,039

they will be gathered at the japanese

261

00:18:22,710 --> 00:18:19,919

prime minister's residence in tokyo

262

00:18:24,230 --> 00:18:22,720

to provide a congratulatory call and a

263

00:18:26,870 --> 00:18:24,240

question and answer session with the

264

00:18:29,750 --> 00:18:26,880

crew about life and research on board

265

00:18:33,270 --> 00:18:29,760

the orbital laboratory that uh in-flight

266

00:18:35,590 --> 00:18:33,280

event again at 7 15

267

00:18:37,669 --> 00:18:35,600

a.m central time tomorrow 8 15 a.m

268

00:18:40,150 --> 00:18:37,679

eastern time and that will set the stage

269

00:18:42,549 --> 00:18:40,160

for our space station live broadcast at

270

00:18:45,510 --> 00:18:42,559

its normal time of 10 a.m central time

271

00:18:46,950 --> 00:18:45,520

11 a.m eastern time uh to recap all of

272

00:18:49,110 --> 00:18:46,960

the activities on board the

273

00:18:51,909 --> 00:18:49,120

international space station for the

274

00:18:54,390 --> 00:18:51,919

expedition 39 crew

275

00:18:56,310 --> 00:18:54,400

but uh for the moment uh jubilation on

276

00:18:58,150 --> 00:18:56,320

board the station with a flawless

277

00:19:01,110 --> 00:18:58,160

arrival of a new resupply ship the

278

00:19:03,029 --> 00:19:01,120

progress 55 docking just a few minutes

279

00:19:05,350 --> 00:19:03,039

ago to deliver almost three tons of

280

00:19:07,270 --> 00:19:05,360

supplies for that crew