

Ф44 СБЛИЖЕНИЕ T=00:13:32

ПРИЧАЛ ПРИЧАЛ ПСК ГСО 1234

Б12М12 шХ 0.008

ДУС123 шУ 0.017

Р 210.9 ССВП ГТ шZ-0.026

С1.76601 КУРС 1

γ 5.87

ψ 0.18

θ 0.01

φ 0.31

θ 0.00

θ 0.033

Φ ρ 035 KM ΩУ 0.030

ρ̇ ρ̇ 0.13 M 0.25

1  
00:00:03,169 --> 00:00:01,699  
and the visiting vehicle officer of

2  
00:00:05,990 --> 00:00:03,179  
Mission Control now reports

3  
00:00:08,600 --> 00:00:06,000  
station-keeping which has begun the fly

4  
00:00:10,459 --> 00:00:08,610  
around is complete this is about a five

5  
00:00:12,049 --> 00:00:10,469  
minute period to enable the flight

6  
00:00:14,150 --> 00:00:12,059  
control team here in Carlisle to

7  
00:00:15,950 --> 00:00:14,160  
reassess the alignment of the forward

8  
00:00:20,420 --> 00:00:15,960  
docking probe at the top of the soyuz

9  
00:00:22,700 --> 00:00:20,430  
spacecraft the raw speed module one the

10  
00:00:25,880 --> 00:00:22,710  
station keeping initiated at a distance

11  
00:00:29,210 --> 00:00:25,890  
of about 200 meters seventy we are now

12  
00:00:30,830 --> 00:00:29,220  
at zero closing rate 1d cores automated

13  
00:00:32,780 --> 00:00:30,840

rendezvous system will reinitiate the

14

00:00:35,720 --> 00:00:32,790

approach one so the Russian flight

15

00:00:37,520 --> 00:00:35,730

control team has approved the final

16

00:00:42,860 --> 00:00:37,530

approach for docking that should come

17

00:00:47,000 --> 00:00:42,870

just a few minutes now most of us can

18

00:00:49,160 --> 00:00:47,010

see them ok missed a little bit to lose

19

00:00:50,930 --> 00:00:49,170

that's our case it isn't it will

20

00:00:55,250 --> 00:00:50,940

stabilize in a second don't worry about

21

00:00:58,599 --> 00:00:55,260

it yes I understand they are set was no

22

00:01:04,399 --> 00:00:58,609

more than my four degrees where they're

23

00:01:06,770 --> 00:01:04,409

docking port sent longitudinal axis we

24

00:01:08,450 --> 00:01:06,780

are down three three cells down but

25

00:01:12,560 --> 00:01:08,460

slowly but surely going back to the

26

00:01:17,149 --> 00:01:12,570

center i do see what she can do boy

27

00:01:18,649 --> 00:01:17,159

ok still small lacerations I'm

28

00:01:20,630 --> 00:01:18,659

machine yellow brothers the course no

29

00:01:23,030 --> 00:01:20,640

glide did not have a visual of the

30

00:01:26,250 --> 00:01:23,040

target yet but I see the dark important

31

00:01:32,250 --> 00:01:29,760

securus to build and citizen ok fly

32

00:01:35,610 --> 00:01:32,260

around is complete but in a loser goes

33

00:01:40,670 --> 00:01:35,620

off yet comfortable around complete the

34

00:01:44,700 --> 00:01:40,680

ISIS is the table Satoshi please prepare

35

00:01:48,680 --> 00:01:44,710

07 okay see desert go into the final

36

00:01:53,490 --> 00:01:48,690

approach to build Musacchio let Mia

37

00:01:57,120 --> 00:01:53,500

reduce the image tram ride reduce the

38

00:02:00,540 --> 00:01:57,130

image and as the Soyuz station keeps at

39

00:02:03,240 --> 00:02:00,550

a distance of about 200 meters away you

40

00:02:06,960 --> 00:02:03,250

can see a periodic thruster firings to

41

00:02:08,400 --> 00:02:06,970

maintain a stable distance while the

42

00:02:11,760 --> 00:02:08,410

Russian flight control team makes its

43

00:02:13,020 --> 00:02:11,770

final analysis before giving approval

44

00:02:15,630 --> 00:02:13,030

for the Coors automated rendezvous

45

00:02:18,870 --> 00:02:15,640

system to reinitiate the approach for

46

00:02:21,860 --> 00:02:18,880

contact and camp trip are you ready

47

00:02:25,980 --> 00:02:21,870

let's go I stand final approach command

48

00:02:30,030 --> 00:02:25,990

yes for show final approach confirmed

49

00:02:32,880 --> 00:02:30,040

copy this is equal to 10 seconds so this

50

00:02:39,020 --> 00:02:32,890

is a second for the in 10 seconds virgin

51  
00:02:46,610 --> 00:02:39,030  
the hip 387 and monitor decision but the

52  
00:02:50,310 --> 00:02:46,620  
road 22nd century depo runnin on fumes

53  
00:02:52,500 --> 00:02:50,320  
and with everything in great shape the

54  
00:02:56,640 --> 00:02:52,510  
Soyuz has now initiated its final

55  
00:02:59,729 --> 00:02:56,650  
approach for docking i miscounted in 15

56  
00:03:03,509 --> 00:02:59,739  
seconds will cancel route and send v81

57  
00:03:05,850 --> 00:03:03,519  
to route is cancelled everything is

58  
00:03:12,480 --> 00:03:10,740  
sorry Jim no mago guardian began Rashida

59  
00:03:17,220 --> 00:03:12,490  
would you like me to give you a full

60  
00:03:19,830 --> 00:03:17,230  
screen image it's up to you we again in

61  
00:03:21,600 --> 00:03:19,840  
the red so do it and the visiting

62  
00:03:24,150 --> 00:03:21,610  
vehicle officer reports that they will

63  
00:03:26,190 --> 00:03:24,160

destroy use in such precise alignment

64

00:03:27,840 --> 00:03:26,200

and with everything else appearing to be

65

00:03:29,940 --> 00:03:27,850

in good shape there will be no need to

66

00:03:32,699 --> 00:03:29,950

take over manual control for a thruster

67

00:03:34,800 --> 00:03:32,709

firings that we had indicated earlier at

68

00:03:36,570 --> 00:03:34,810

the top of our broadcast the other

69

00:03:39,180 --> 00:03:36,580

thrusters operating in good shape

70

00:03:41,730 --> 00:03:39,190

compensating for a slight ever so slight

71

00:03:43,680 --> 00:03:41,740

reduction in trust from one of the four

72

00:03:46,740 --> 00:03:43,690

appt thrusters on the Soyuz spacecraft

73

00:03:49,260 --> 00:03:46,750

so we continue the approach for docking

74

00:03:51,000 --> 00:03:49,270

everything in good shape as the

75

00:03:53,970 --> 00:03:51,010

International Space Station and the

76  
00:03:56,310 --> 00:03:53,980  
Soyuz vehicle have flown into an orbital

77  
00:03:58,500 --> 00:03:56,320  
sunset and I now just off the east coast

78  
00:04:03,330 --> 00:03:58,510  
of Argentina moving from Southwest to

79  
00:04:06,870 --> 00:04:03,340  
Northeast so now I wonder does okay we

80  
00:04:13,080 --> 00:04:06,880  
sent s710 everything's fine okay let's

81  
00:04:18,810 --> 00:04:16,620  
the engines of course hold on k keep gun

82  
00:04:23,189 --> 00:04:18,820  
with docking port is in the center of

83  
00:04:25,670 --> 00:04:23,199  
visca so so painful USS pepper and in

84  
00:04:29,820 --> 00:04:25,680  
selected a nympho one we're monitoring

85  
00:04:32,040 --> 00:04:29,830  
of them which addendum by for ssf

86  
00:04:34,890 --> 00:04:32,050  
activation done on Portobello from

87  
00:04:37,530 --> 00:04:34,900  
course their ranges hundred meter on the

88  
00:04:40,140 --> 00:04:37,540

100 meters now separating the Soyuz from

89

00:04:42,540 --> 00:04:40,150

its portal call at the rassvet module at

90

00:04:44,340 --> 00:04:42,550

the distance of about forty meters or so

91

00:04:46,650 --> 00:04:44,350

the course automated rendezvous antenna

92

00:04:49,980 --> 00:04:46,660

will retract if everything continues to

93

00:04:51,810 --> 00:04:49,990

go as planned and we will continue to

94

00:04:55,350 --> 00:04:51,820

see varying views including the

95

00:04:57,180 --> 00:04:55,360

engineering overlaid view the same view

96

00:05:00,000 --> 00:04:57,190

that Sergei Volkov is seeing in a

97

00:05:02,760 --> 00:05:00,010

monitor inside the descent module or the

98

00:05:05,760 --> 00:05:02,770

crew compartment of the Soyuz vehicle

99

00:05:07,529 --> 00:05:05,770

the docking target on the Lafayette

100

00:05:10,770 --> 00:05:07,539

module ultimately will be in the center

101  
00:05:12,029 --> 00:05:10,780  
of those crosshairs guided as such by

102  
00:05:15,020 --> 00:05:12,039  
the course automated rendezvous system

103  
00:05:18,960 --> 00:05:15,030  
that is operating as advertised today

104  
00:05:23,040 --> 00:05:18,970  
general final approach in progress range

105  
00:05:27,540 --> 00:05:23,050  
from course 75 meters radio going 30

106  
00:05:34,510 --> 00:05:27,550  
point 38 and close and copy final

107  
00:05:42,040 --> 00:05:38,499  
Douglas range 70 meters from courses

108  
00:05:44,260 --> 00:05:42,050  
each other from 8.3 and flows and target

109  
00:05:49,420 --> 00:05:44,270  
is in the center of Wescoe across here

110  
00:05:53,309 --> 00:05:49,430  
the line good visual users with visual

111  
00:06:04,740 --> 00:05:53,319  
of the target final approach in progress

112  
00:06:09,250 --> 00:06:07,090  
valid Ferdinand Porsche range from

113  
00:06:12,130 --> 00:06:09,260

course this is a matter of 60 meters

114

00:06:14,710 --> 00:06:12,140

using a water bed for the photo in 25

115

00:06:18,790 --> 00:06:14,720

and closin targeted in the center

116

00:06:22,000 --> 00:06:18,800

crosshairs lined of the gutter for total

117

00:06:37,900 --> 00:06:22,010

failure I am assassin the Ranger a

118

00:06:43,160 --> 00:06:40,910

just 50 metres now separating the Soyuz

119

00:06:45,560 --> 00:06:43,170

from the rassvet module clearly in view

120

00:06:49,220 --> 00:06:45,570

in this image from the external

121

00:06:52,160 --> 00:06:49,230

television camera on the Soyuz TMA o2m

122

00:06:54,170 --> 00:06:52,170

spacecraft on the lower right hand

123

00:06:56,840 --> 00:06:54,180

corner of your screen the permanent

124

00:06:59,450 --> 00:06:56,850

multi-purpose module that was delivered

125

00:07:00,890 --> 00:06:59,460

to the earth-facing port of the unity

126  
00:07:04,240 --> 00:07:00,900  
module of the International Space

127  
00:07:10,040 --> 00:07:04,250  
Station on discovery's final flight on

128  
00:07:13,040 --> 00:07:10,050  
sts-133 back a few months ago but the

129  
00:07:15,980 --> 00:07:13,050  
target of interest today is just down

130  
00:07:19,220 --> 00:07:15,990  
the street a bit from the pmm and that

131  
00:07:21,560 --> 00:07:19,230  
is the rassvet module just 45 meters now

132  
00:07:25,250 --> 00:07:21,570  
separating Sergei Volkov Satoshi

133  
00:07:27,070 --> 00:07:25,260  
Furukawa and mike fossum from their home

134  
00:07:31,700 --> 00:07:27,080  
for the next five and a half months

135  
00:07:34,910 --> 00:07:31,710  
circuit alligators kapadia one cell to

136  
00:07:36,950 --> 00:07:34,920  
the right of the center of vodka first

137  
00:07:47,540 --> 00:07:36,960  
hairs aligned yes me marshal korean

138  
00:07:59,950 --> 00:07:50,100

what about them pretty sure living room

139

00:08:05,330 --> 00:08:03,500

forgot over assessment phase ready for

140

00:08:09,080 --> 00:08:05,340

your complete range approximately 30

141

00:08:14,090 --> 00:08:09,090

meters Brazilian laurium radio range

142

00:08:17,960 --> 00:08:14,100

rate is nominal we circuits have an

143

00:08:21,620 --> 00:08:17,970

outstanding view of the Soyuz with the

144

00:08:23,900 --> 00:08:21,630

limb of the earth in the background just

145

00:08:25,790 --> 00:08:23,910

33 meters separating the Soyuz from the

146

00:08:28,460 --> 00:08:25,800

rassvet module on the far left of your

147

00:08:31,430 --> 00:08:28,470

screen the 42 progress cargo craft dot

148

00:08:32,960 --> 00:08:31,440

for the piers docking compartment is the

149

00:08:34,370 --> 00:08:32,970

glittering solar rays of the u.s.

150

00:08:35,840 --> 00:08:34,380

segment of the international space

151

00:08:38,600 --> 00:08:35,850

station on the right side of your screen

152

00:08:40,310 --> 00:08:38,610

the docking mechanism of the Soyuz has

153

00:08:42,800 --> 00:08:40,320

been powered up in the cores automated

154

00:08:46,190 --> 00:08:42,810

rendezvous antenna has been retracted as

155

00:08:50,960 --> 00:08:46,200

planned on the arrow maneuvers almost

156

00:08:53,600 --> 00:08:50,970

done artistic real number sound no moral

157

00:08:59,680 --> 00:08:53,610

rotation respectable sentencing range

158

00:08:59,690 --> 00:09:13,870

the

159

00:09:20,530 --> 00:09:16,150

but it's better to voltage range about

160

00:09:25,390 --> 00:09:20,540

20 meters of Laurium final approach rate

161

00:09:28,270 --> 00:09:25,400

nominal income top what should this is

162

00:09:30,640 --> 00:09:28,280

mr. Minister possible moment of the

163

00:09:34,750 --> 00:09:30,650

target a relative to the center of vodka

164

00:09:36,730 --> 00:09:34,760

for the present within nominal range 23

165

00:09:39,520 --> 00:09:36,740

meters now separating the Soyuz from its

166

00:09:41,320 --> 00:09:39,530

target on the rassvet module as of the

167

00:09:45,190 --> 00:09:41,330

Soyuz and the international space

168

00:09:51,730 --> 00:09:45,200

station fly 218 miles due east of Rio de

169

00:09:57,190 --> 00:09:51,740

Janeiro okay the station keeping command

170

00:10:00,310 --> 00:09:57,200

is armed okay suppression okay go ahead

171

00:10:02,440 --> 00:10:00,320

and again brand a mr. pickle's friends

172

00:10:08,590 --> 00:10:02,450

of focus or do okay let's official

173

00:10:13,590 --> 00:10:08,600

select the command mission target is in

174

00:10:17,950 --> 00:10:13,600

the center Bella's vodka arranged about

175

00:10:24,970 --> 00:10:17,960

15 meters normal radio range rate is

176  
00:10:32,600 --> 00:10:24,980  
normal or internet history on something

177  
00:10:39,019 --> 00:10:35,210  
but about them pretty sure they're not

178  
00:10:44,180 --> 00:10:39,029  
find on the parish in progress or this

179  
00:10:51,350 --> 00:10:47,930  
for its inaudible so ready and we're

180  
00:10:53,720 --> 00:10:51,360  
nominal it is officially from maneuver

181  
00:10:56,510 --> 00:10:53,730  
complete prepares a line but with

182  
00:10:58,400 --> 00:10:56,520  
kapadia with target is one cell to the

183  
00:11:07,460 --> 00:10:58,410  
right from the center of risk everything

184  
00:11:15,080 --> 00:11:13,460  
don't burn it ok getting ready the

185  
00:11:16,970 --> 00:11:15,090  
docking target coming into final

186  
00:11:18,740 --> 00:11:16,980  
alignment through the corozal tomato

187  
00:11:21,020 --> 00:11:18,750  
rendezvous system less than 10 meters

188  
00:11:24,410 --> 00:11:21,030

away from dockings rate of closure

189

00:11:27,470 --> 00:11:24,420

one-tenth of a meter per second we are

190

00:11:29,450 --> 00:11:27,480

ready for contact standing by for

191

00:11:32,540 --> 00:11:29,460

contact and capture the International

192

00:11:36,860 --> 00:11:32,550

Space Station those are them got Sonya

193

00:11:43,330 --> 00:11:36,870

ending by for contact mr. target is in

194

00:11:48,010 --> 00:11:46,060

quarter to normal rate is nominal

195

00:11:52,780 --> 00:11:48,020

agreeing to go solve them we still have

196

00:11:57,690 --> 00:11:52,790

some role left you still in the box or

197

00:12:03,310 --> 00:12:01,420

of paul klee of your hot self with

198

00:12:05,590 --> 00:12:03,320

better soon for the right from the

199

00:12:08,050 --> 00:12:05,600

center of a sky approach in the center

200

00:12:17,570 --> 00:12:08,060

crosshairs Alliance ending by for

201  
00:12:29,150 --> 00:12:20,930  
also the discontent in my contacts and

202  
00:12:31,490 --> 00:12:29,160  
firms stocking confirm the International

203  
00:12:39,050 --> 00:12:31,500  
Space Station in free drift information

204  
00:12:41,270 --> 00:12:39,060  
Sergei okay the undersea hearty laugh of

205  
00:12:43,520 --> 00:12:41,280  
Mike Fossum signaling the arrival of

206  
00:12:45,410 --> 00:12:43,530  
three new residents of the International

207  
00:12:49,310 --> 00:12:45,420  
Space Station docking confirmed at four

208  
00:12:51,080 --> 00:12:49,320  
18 p.m. central time as the soyuz tma 02

209  
00:12:54,080 --> 00:12:51,090  
m at the International Space Station