

Ф44 СБЛИЖЕНИЕ

T = 05:38:25

ПРИЧАЛ ПРИЧАЛ ЛСК

ГСО 1234

Б12

ωX - 0.017

ДУС123 1

ωY 0.043

P 170.8

ωZ - 0.087

C1.76601

КУРС 1

γ 10.60

ψ - 0.10

θ - 0.37

φП 0.50

θП - 0.55

ρ 0.060

ρ̇ - 0.27

φ ρ 0.060 KM

ΩY 0.007 0.013

ρ̇ - 0.27 M/C

ΩZ - 0.048 - 0.053

1
00:00:05,910 --> 00:00:03,110
we confirm

2
00:00:08,790 --> 00:00:05,920
uh we show the final approach and we

3
00:00:14,910 --> 00:00:11,749
i understand that you have to have

4
00:00:17,109 --> 00:00:14,920
nerves of steel to be talking like that

5
00:00:19,109 --> 00:00:17,119
vladimir alexey which we do not hear you

6
00:00:21,189 --> 00:00:19,119
quite clearly you know

7
00:00:23,109 --> 00:00:21,199
you're very hard to and

8
00:00:25,349 --> 00:00:23,119
to understand

9
00:00:32,549 --> 00:00:25,359
i can hear that you're saying something

10
00:00:34,310 --> 00:00:33,350
we

11
00:00:39,510 --> 00:00:34,320
show

12
00:00:49,190 --> 00:00:39,520
final approach and we are looking at the

13
00:00:53,270 --> 00:00:51,590

and as you heard the final approach has

14

00:00:55,110 --> 00:00:53,280

uh begun

15

00:00:58,229 --> 00:00:55,120

just about 10 minutes to docking of

16

00:01:01,750 --> 00:00:58,239

course that's

17

00:01:06,469 --> 00:01:01,760

it's uh all up to the uh vehicles uh uh

18

00:01:13,670 --> 00:01:06,479

close approach now from uh currently 153

19

00:01:20,630 --> 00:01:18,469

range is 150 a range rate is 0.77

20

00:01:38,149 --> 00:01:20,640

it's a pausing grade we are increasing

21

00:01:38,159 --> 00:01:45,109

i'm looking at the crosshairs

22

00:01:49,109 --> 00:01:45,830

so

23

00:01:51,190 --> 00:01:49,119

range per course date is 125 range rate

24

00:02:21,190 --> 00:01:51,200

is 0.77

25

00:02:26,390 --> 00:02:23,110

yeah just about a hundred meters now

26

00:02:30,790 --> 00:02:28,550

range rate 0.5

27

00:02:45,670 --> 00:02:30,800

and the docking mechanism is at the

28

00:02:50,070 --> 00:02:47,509

please don't forget that you're going to

29

00:02:51,910 --> 00:02:50,080

be entering the sunset is about one

30

00:02:57,589 --> 00:02:51,920

minute

31

00:03:02,830 --> 00:03:00,149

there will be eclipse we got the eclipse

32

00:03:04,470 --> 00:03:02,840

is in one minute range is

33

00:03:07,670 --> 00:03:04,480

0.8

34

00:03:11,270 --> 00:03:07,680

and rate rate is 0.42

35

00:03:13,350 --> 00:03:11,280

and we have activated the floodlight

36

00:03:40,869 --> 00:03:13,360

did you activate the floodlight yes i

37

00:03:40,879 --> 00:03:45,990

we are entering the eclipse

38

00:03:50,630 --> 00:03:48,229

we are in the eclipse

39

00:03:53,270 --> 00:03:50,640

range is 0.65

40

00:03:55,429 --> 00:03:53,280

range rate is 0.27 we see the docking

41

00:03:57,350 --> 00:03:55,439

mechanism you see the target and the

42

00:04:01,750 --> 00:03:57,360

crosshairs

43

00:04:04,550 --> 00:04:01,760

and the range is 0.6 range rate is 0.27

44

00:04:08,789 --> 00:04:06,789

we are in the eclipse and i see the

45

00:04:11,670 --> 00:04:08,799

docking mechanism

46

00:04:14,390 --> 00:04:11,680

just under 60 meters now traveling in

47

00:04:17,110 --> 00:04:14,400

toward the station at a very slow

48

00:04:18,629 --> 00:04:17,120

0.2 meters per second

49

00:04:20,629 --> 00:04:18,639

obviously lining up there with the

50

00:04:22,550 --> 00:04:20,639

crosshairs on the docking

51
00:04:24,550 --> 00:04:22,560
uh port of the international space

52
00:04:26,310 --> 00:04:24,560
station's rsv module on the russian

53
00:04:35,350 --> 00:04:26,320
segment yes

54
00:04:35,360 --> 00:04:40,150
range rate is 0.21

55
00:04:40,160 --> 00:04:46,950
and we see the target it's illuminated

56
00:04:50,310 --> 00:04:49,510
alec did you install um

57
00:04:55,510 --> 00:04:50,320
a

58
00:05:00,150 --> 00:04:56,629
uh no

59
00:05:01,590 --> 00:05:00,160
range is zero 45 and range rate is zero

60
00:05:04,629 --> 00:05:01,600
one seven

61
00:05:07,670 --> 00:05:04,639
and the target is a little bit to the

62
00:05:21,749 --> 00:05:07,680
left uh one degree off the center of the

63
00:05:21,759 --> 00:05:32,550

range rate is zero point

64

00:05:32,560 --> 00:05:40,310

that all the commands are ready

65

00:05:46,230 --> 00:05:43,990

and we see it at the center of the

66

00:05:48,950 --> 00:05:46,240

overlay

67

00:06:03,029 --> 00:05:48,960

and the range approximately is about 40

68

00:06:03,039 --> 00:06:19,029

for the final approach

69

00:06:19,039 --> 00:06:22,710

32 meter range

70

00:06:27,510 --> 00:06:25,909

and we the

71

00:06:29,909 --> 00:06:27,520

target is at the center of the

72

00:06:31,830 --> 00:06:29,919

crosshairs on the overlay

73

00:06:34,629 --> 00:06:31,840

and it's a little bit

74

00:06:37,270 --> 00:06:34,639

one degree lower from the oscar cross

75

00:06:41,270 --> 00:06:37,280

hairs and a little bit to the

76

00:06:46,710 --> 00:06:45,029

range rate is 0.16

77

00:06:48,950 --> 00:06:46,720

we are

78

00:06:50,469 --> 00:06:48,960

approaching the

79

00:06:57,430 --> 00:06:50,479

station

80

00:06:57,440 --> 00:07:14,070

range is 0.32

81

00:07:19,029 --> 00:07:17,430

very smooth approach

82

00:07:22,150 --> 00:07:19,039

docking should occur within the next

83

00:07:25,430 --> 00:07:22,160

four minutes there are no gaps

84

00:07:28,070 --> 00:07:25,440

uh range rate is 0.12 we are approaching

85

00:07:30,390 --> 00:07:28,080

the 25 meter mark

86

00:07:40,710 --> 00:07:30,400

i see everything very clearly on the

87

00:07:46,070 --> 00:07:42,150

the crosshairs

88

00:07:53,029 --> 00:07:50,469

the cross is about two degrees lower

89

00:07:55,270 --> 00:07:53,039

the crosshairs are aligned we are

90

00:08:04,390 --> 00:07:55,280

transitioning to the air base

91

00:08:04,400 --> 00:08:12,309

range is 20 meters

92

00:08:16,550 --> 00:08:14,950

range rate

93

00:08:22,710 --> 00:08:16,560

the target is

94

00:08:22,720 --> 00:08:27,189

range rate is 0.12

95

00:08:27,199 --> 00:08:30,629

closing in

96

00:08:30,639 --> 00:08:35,909

range is approximately 17 meters

97

00:08:42,149 --> 00:08:38,630

range rate is 0.12

98

00:08:45,030 --> 00:08:42,159

less than 20 meters now from the station

99

00:08:49,750 --> 00:08:45,040

slight roll to uh align properly with

100

00:08:49,760 --> 00:09:03,269

range rate is 0.13

101
00:09:03,279 --> 00:09:09,670
13 meters

102
00:09:17,829 --> 00:09:12,630
everything's looking fine uh range rate

103
00:09:17,839 --> 00:09:25,190
fourth hairs of the target

104
00:09:33,269 --> 00:09:27,829
range is ten meters range rate is zero

105
00:09:50,630 --> 00:09:36,230
frost hairs are a little one degree

106
00:09:56,630 --> 00:09:53,269
range is seven meters approximately

107
00:10:00,230 --> 00:09:56,640
range rate is 0.11

108
00:10:03,670 --> 00:10:00,240
we see the target clearly and the target

109
00:10:13,590 --> 00:10:03,680
and the crosshairs are aligned

110
00:10:13,600 --> 00:10:26,870
range is approximately three meters

111
00:10:31,269 --> 00:10:28,150
we are

112
00:10:33,350 --> 00:10:31,279
waiting for contact the range is less

113
00:10:36,230 --> 00:10:33,360

than one minute we're standing by for

114

00:10:41,030 --> 00:10:38,310

the crosshairs and the target are

115

00:10:48,150 --> 00:10:44,310

range rate is zero zero nine

116

00:10:54,949 --> 00:10:50,230

we are in the indicator mode

117

00:10:59,990 --> 00:10:54,959

we copy 0. 0.5 45 and 12

118

00:11:05,350 --> 00:11:02,630

and we have contact and capture docking

119

00:11:07,990 --> 00:11:05,360

of the soyuz tma-17m

120

00:11:12,710 --> 00:11:08,000

with the international space station