

Ф44 СБЛИЖЕНИЕ

T=15:05:56

ЗНПР СБ

ОСК ГСО 12

Б1

А 1

К

ωx 0,000%

ДУС12 1

УТ

ωy 0,052%

Р 8,5

ФИВЕР

ωz 0,017%

СВ.00000

РАЗВЕР

КУРС

γ 0,00°

τ 0,00°

θ 0,00°

ψ 0,00°

φ 0,00°

ρ 0,000

ρ̇ 0,000

ρ 0,000кн Ωy 0,000 0,000

ρ̇ 0,00н/с Ωz 0,000 0,000



1
00:00:07,430 --> 00:00:04,070
once again this view from the external

2
00:00:10,070 --> 00:00:07,440
camera on the 49 progress cargo ship as

3
00:00:11,830 --> 00:00:10,080
we stand by for physical separation the

4
00:00:55,750 --> 00:00:11,840
undocking of the cargo ship about a

5
00:01:03,110 --> 00:00:59,430
and docking is confirmed

6
00:01:04,549 --> 00:01:03,120
undocking confirmed at 7 02 a.m central

7
00:01:07,429 --> 00:01:04,559
time just a few seconds ahead of

8
00:01:10,789 --> 00:01:09,270
the undocking occurring while the

9
00:01:14,070 --> 00:01:10,799
international space station and the

10
00:01:28,469 --> 00:01:14,080
progress were passing 257 miles over

11
00:01:33,030 --> 00:01:30,710
you can see the faint outline when the

12
00:01:35,429 --> 00:01:33,040
picture locks up here of the docking

13
00:01:37,749 --> 00:01:35,439

target the progress is free

14

00:01:40,469 --> 00:01:37,759

now backing away from the aft port of

15

00:01:43,030 --> 00:01:40,479

the zvezda service module

16

00:01:45,670 --> 00:01:43,040

a separation burn of 15 seconds in

17

00:01:51,109 --> 00:01:45,680

duration will occur at

18

00:01:54,550 --> 00:01:52,789

again the progress will slowly but

19

00:01:56,630 --> 00:01:54,560

surely back away from the vicinity of

20

00:01:58,950 --> 00:01:56,640

the international space station there

21

00:02:01,749 --> 00:01:58,960

will be a retrograde burn of about 10

22

00:02:02,709 --> 00:02:01,759

meters per second a schedule later today

23

00:02:05,109 --> 00:02:02,719

that will

24

00:02:07,910 --> 00:02:05,119

set the progress on its course to drift

25

00:02:09,910 --> 00:02:07,920

to a distance of some 1 600 miles away

26
00:02:12,550 --> 00:02:09,920
from the international space station for

27
00:02:14,790 --> 00:02:12,560
the first of a daily series of radar

28
00:02:16,470 --> 00:02:14,800
burns as they are called thruster

29
00:02:19,110 --> 00:02:16,480
firings to help russian ground

30
00:02:20,710 --> 00:02:19,120
controllers calibrate radar systems

31
00:02:31,270 --> 00:02:20,720
on the ground at various locations

32
00:02:35,430 --> 00:02:34,070
the departure of 49 progress now leaves

33
00:02:37,830 --> 00:02:35,440
three russian vehicles at the

34
00:02:40,390 --> 00:02:37,840
international space station the 50

35
00:02:42,470 --> 00:02:40,400
progress cargo craft which has mated to

36
00:02:44,309 --> 00:02:42,480
the piers docking compartment

37
00:02:47,589 --> 00:02:44,319
that will also serve as the airlock the

38
00:02:52,070 --> 00:02:47,599

piers will for the friday spacewalk

39
00:02:55,430 --> 00:02:52,080
by pavel vinogradov and roman romanenko

40
00:02:58,229 --> 00:02:55,440
and two soyuz vehicles one the o7m

41
00:03:00,229 --> 00:02:58,239
spacecraft docked to the rassvet module

42
00:03:01,990 --> 00:03:00,239
on the earth-facing side of the zarya

43
00:03:05,430 --> 00:03:02,000
module on the russian segment of the

44
00:03:07,509 --> 00:03:05,440
station the o8m vehicle is docked to the

45
00:03:35,670 --> 00:03:07,519
space facing side of the zvezda service

46
00:03:35,680 --> 00:03:41,910
it's going so nice it's remarkable

47
00:03:41,920 --> 00:03:48,869
roman are you watching this

48
00:03:52,949 --> 00:03:50,710
a good view of the

49
00:03:55,670 --> 00:03:52,959
aft port of the zvezda service module in

50
00:03:57,830 --> 00:03:55,680
the lower left hand quadrant that is the

51
00:04:03,110 --> 00:03:57,840
50 progress vehicle docked to the piers

52
00:04:07,509 --> 00:04:06,229
50 progress will remain docked to piers

53
00:04:09,190 --> 00:04:07,519
until

54
00:04:11,589 --> 00:04:09,200
july 21st

55
00:04:13,750 --> 00:04:11,599
when it will uh also

56
00:04:15,750 --> 00:04:13,760
be undocked and discarded to make way

57
00:04:29,670 --> 00:04:15,760
for yet another progress vehicle to be

58
00:04:36,710 --> 00:04:33,670
and the separation burn is now complete

59
00:04:38,710 --> 00:04:36,720
progress beginning to create a more

60
00:04:40,310 --> 00:04:38,720
significant opening rate

61
00:04:43,030 --> 00:04:40,320
between itself and the international

62
00:04:45,670 --> 00:04:43,040
space station uh once again uh the first

63
00:04:48,390 --> 00:04:45,680

of the so-called radar burns uh thruster

64

00:04:50,790 --> 00:04:48,400

firings that will uh begin tomorrow on a

65

00:04:52,870 --> 00:04:50,800

daily basis through saturday to help

66

00:04:55,030 --> 00:04:52,880

russian flight controllers characterize

67

00:04:57,670 --> 00:04:55,040

uh and calibrate radar systems on the

68

00:05:00,710 --> 00:04:57,680

ground the first radar burned tomorrow

69

00:05:02,070 --> 00:05:00,720

will occur with 49 progress some 1 600

70

00:05:04,390 --> 00:05:02,080

statute miles away from the

71

00:05:06,950 --> 00:05:04,400

international space station at the time

72

00:05:09,270 --> 00:05:06,960

of the progresses deorbit burn

73

00:05:11,590 --> 00:05:09,280

to initiate its destructive reentry back

74

00:05:13,990 --> 00:05:11,600

into the earth's atmosphere on sunday

75

00:05:17,430 --> 00:05:14,000

this progress cargo ship now loaded with

76
00:06:41,189 --> 00:05:17,440
trash will be some 8 300 miles away from

77
00:06:46,390 --> 00:06:43,670
this is mission control houston to recap

78
00:06:48,790 --> 00:06:46,400
the 49 progress vehicle is now free of

79
00:06:51,830 --> 00:06:48,800
the international space station having

80
00:06:53,350 --> 00:06:51,840
undocked at 702 am central time 802

81
00:06:55,189 --> 00:06:53,360
eastern time

82
00:06:58,230 --> 00:06:55,199
while the international space station

83
00:07:01,990 --> 00:06:58,240
was 257 statute miles over northern

84
00:07:04,309 --> 00:07:02,000
china near the mongolian border

85
00:07:06,390 --> 00:07:04,319
three minutes later a separation burn of

86
00:07:08,870 --> 00:07:06,400
the progress thrusters uh

87
00:07:10,950 --> 00:07:08,880
occurred to initiate the opening rate uh

88
00:07:13,589 --> 00:07:10,960

between itself and the international

89

00:07:16,469 --> 00:07:13,599

space station you continue to watch uh

90

00:07:17,270 --> 00:07:16,479

that opening rate uh increase minute by

91

00:07:19,189 --> 00:07:17,280

minute

92

00:07:21,350 --> 00:07:19,199

in this view from the external