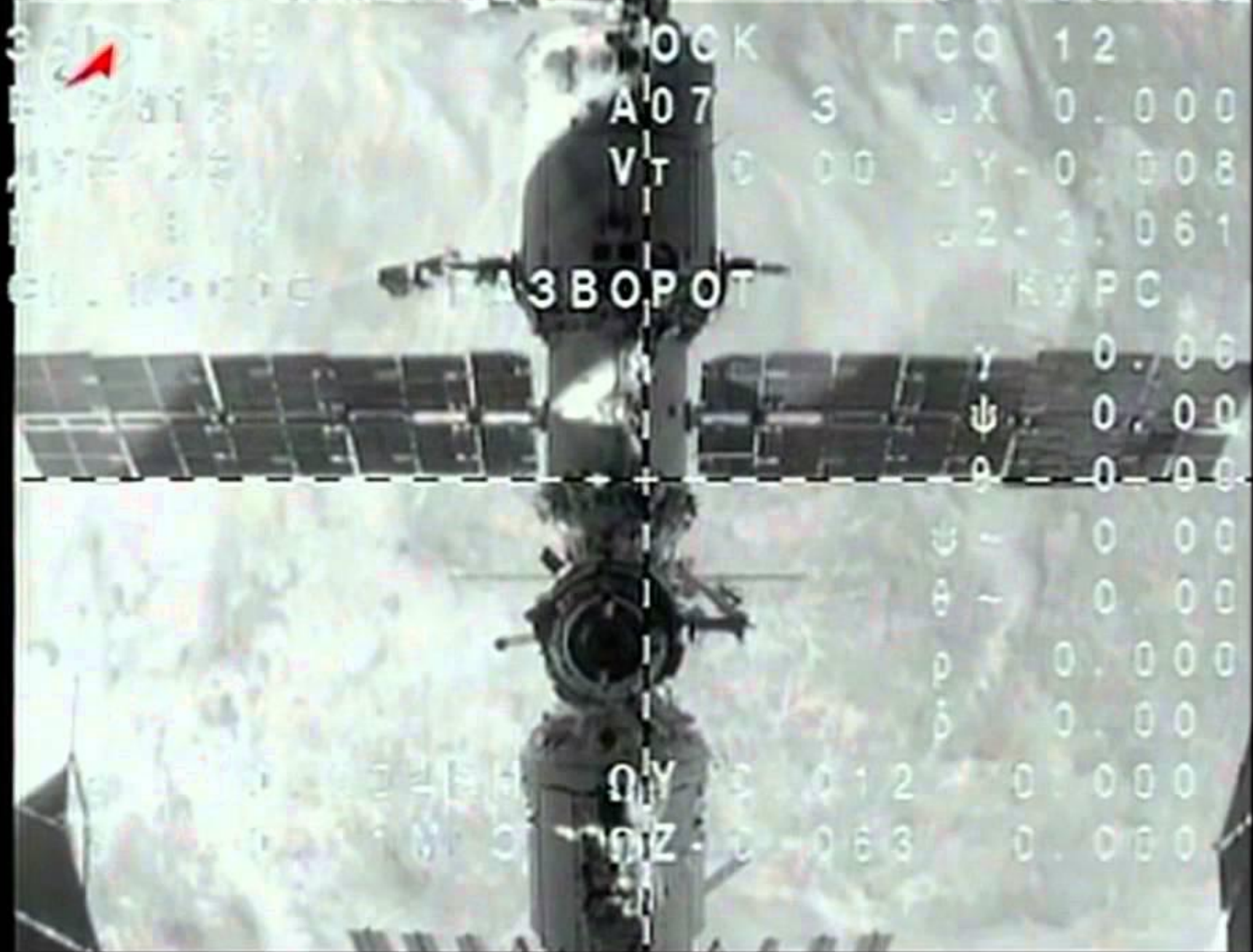


044 ОБЛИЖЕНИЕ

T=04:05:33



3
 2
 1
 0

ОСК ГСО 12
 А07 3 СХ 0.000
 VT 0 00 SY-0.008
 02-3.061
 ЗВОРОТ КУРС

γ 0.06
 ψ 0.00
 θ 0.00
 φ 1 0.00
 θ 1 0.00
 ρ 0.000
 δ 0.00
 Ωγ 0.12 0.000
 ΩZ 0.063 0.000

0
 1
 2
 3

1
00:00:15,110 --> 00:00:13,430
and undocking has occurred 7 02 pm

2
00:00:16,630 --> 00:00:15,120
central time

3
00:00:19,189 --> 00:00:16,640
802

4
00:00:21,189 --> 00:00:19,199
pm eastern time while the station was

5
00:00:24,310 --> 00:00:21,199
flying just over the eastern part of

6
00:00:27,269 --> 00:00:24,320
mongolia so the soyuz tm

7
00:00:29,429 --> 00:00:27,279
tma-18m spacecraft undocked from the

8
00:00:31,990 --> 00:00:29,439
international space station and kyle

9
00:00:36,709 --> 00:00:32,000
kornienko scott kelly sergey volkov on

10
00:00:36,719 --> 00:00:45,110
is illuminated

11
00:00:49,029 --> 00:00:46,709
as you can see that initial rate of

12
00:00:51,270 --> 00:00:49,039
departure very slow backing away at only

13
00:00:53,670 --> 00:00:51,280

one tenth of a meter per second it's

14

00:00:55,430 --> 00:00:53,680

going to continue at this pace until

15

00:00:57,270 --> 00:00:55,440

it's about 50 feet away from the

16

00:00:59,510 --> 00:00:57,280

international space station at which

17

00:01:01,750 --> 00:00:59,520

point it'll execute the first of two

18

00:01:04,070 --> 00:01:01,760

separation burns uh the first one will

19

00:01:05,990 --> 00:01:04,080

be an eight-second firing of the engines

20

00:01:08,230 --> 00:01:06,000

on board the soyuz craft

21

00:01:11,190 --> 00:01:08,240

to begin opening that distance uh the

22

00:01:13,750 --> 00:01:11,200

second will be a 30-second burn

23

00:01:16,469 --> 00:01:13,760

those firings should come within the

24

00:01:20,469 --> 00:01:16,479

next two to three minutes

25

00:01:31,190 --> 00:01:22,950

switching to page 97

26

00:01:48,550 --> 00:01:33,109

it is clear of

27

00:01:48,560 --> 00:02:05,510

i'll let you know

28

00:02:31,270 --> 00:02:08,630

issue one s7 command

29

00:02:36,390 --> 00:02:34,070

this view again from the camera on board

30

00:02:38,630 --> 00:02:36,400

the soyuz itself looking straight back

31

00:02:40,550 --> 00:02:38,640

down at the station

32

00:02:41,990 --> 00:02:40,560

continuing to back away we're standing

33

00:02:48,790 --> 00:02:42,000

by

34

00:02:56,390 --> 00:02:53,270

0 5 40 we are expecting the burn

35

00:03:16,070 --> 00:02:57,830

in 10 seconds

36

00:03:19,750 --> 00:03:18,390

in eight seconds they will work

37

00:03:25,270 --> 00:03:19,760

eliminate

38

00:03:27,990 --> 00:03:25,280

counterclockwise yes

39

00:03:33,750 --> 00:03:28,000

this readiness is eliminated crystal one

40

00:03:38,710 --> 00:03:36,789

and the first separation burn occurring

41

00:03:40,949 --> 00:03:38,720

you can see the thruster firings there

42

00:03:54,949 --> 00:03:40,959

on the soyuz craft kelly kononenko and

43

00:04:03,910 --> 00:03:57,509

expecting the next

44

00:04:08,630 --> 00:04:06,149

again that first burn coming

45

00:04:11,509 --> 00:04:08,640

with the soyuz about

46

00:04:13,509 --> 00:04:11,519

50 feet away or so from its docking port

47

00:04:15,190 --> 00:04:13,519

on the international space station it

48

00:04:16,949 --> 00:04:15,200

was an eight-second burn of the soyuz

49

00:04:19,110 --> 00:04:16,959

engines uh the second one coming up will

50

00:04:20,949 --> 00:04:19,120

be much longer and we'll send the uh

51
00:04:38,390 --> 00:04:20,959
craft well away from the international

52
00:04:41,909 --> 00:04:39,830
the visiting vehicle officer here in

53
00:04:44,070 --> 00:04:41,919
houston confirming the second burn has

54
00:04:46,390 --> 00:04:44,080
begun

55
00:04:47,749 --> 00:04:46,400
is shifting

56
00:05:02,790 --> 00:04:47,759
to the right

57
00:05:05,830 --> 00:05:03,830
is not

58
00:05:08,790 --> 00:05:05,840
illuminated the uh

59
00:05:14,629 --> 00:05:08,800
completion of the cycle uh indication

60
00:05:17,990 --> 00:05:16,070
the visiting vehicle officer here in

61
00:05:20,150 --> 00:05:18,000
houston getting confirmation everything

62
00:05:20,950 --> 00:05:20,160
went well with that second separation

63
00:05:23,590 --> 00:05:20,960

burn

64

00:05:25,670 --> 00:05:23,600

so use tma-18m with the one-year crew on

65

00:05:28,629 --> 00:05:25,680

board now departing the area of the

66

00:05:29,670 --> 00:05:28,639

international space station

67

00:05:32,629 --> 00:05:29,680

there you can see the orbiting

68

00:05:34,790 --> 00:05:32,639

laboratory and full view from the camera

69

00:05:36,469 --> 00:05:34,800

on board the soyuz craft which

70

00:05:38,390 --> 00:05:36,479

again undocked from the space facing

71

00:05:43,510 --> 00:05:38,400

side so getting a great look straight

72

00:06:03,110 --> 00:05:46,790

old spacecraft right now just over the

73

00:06:03,120 --> 00:06:07,430

18.

74

00:06:07,440 --> 00:06:57,110

look this video

75

00:06:57,120 --> 00:07:02,309

do not issue that one yet

76

00:07:02,319 --> 00:07:25,909

we have used nine kilograms

77

00:07:30,710 --> 00:07:28,710

the soyuz spacecraft continuing to exit

78

00:07:33,029 --> 00:07:30,720

the vicinity of the international space

79

00:07:35,110 --> 00:07:33,039

station one year crew member scott kelly

80

00:07:37,589 --> 00:07:35,120

mikhail kononenko on board along with

81

00:07:41,270 --> 00:07:37,599

russian cosmonaut sergey volkov that