



1  
00:00:03,750 --> 00:00:01,910  
farewell to one another

2  
00:00:05,670 --> 00:00:03,760  
novitskiy on the left pesquet in the

3  
00:00:08,230 --> 00:00:05,680  
middle and whitson on the right

4  
00:00:11,589 --> 00:00:08,240  
they posed for final pictures a final

5  
00:00:12,629 --> 00:00:11,599  
opportunity for some hugs and farewells

6  
00:00:15,030 --> 00:00:12,639  
wishing

7  
00:00:17,189 --> 00:00:15,040  
novitskiy and pesquet a soft landing on

8  
00:00:18,390 --> 00:00:17,199  
the step of kazakhstan again this

9  
00:00:21,750 --> 00:00:18,400  
occurring just

10  
00:00:23,670 --> 00:00:21,760  
before 2 30 a.m central time today after

11  
00:00:27,910 --> 00:00:23,680  
which novitskiy and pesquet made their

12  
00:00:30,790 --> 00:00:27,920  
way into the hatchway of the soyuz ms 03

13  
00:00:32,630 --> 00:00:30,800

spacecraft right behind them and there

14

00:00:34,709 --> 00:00:32,640

you see a final inspection of that

15

00:00:37,510 --> 00:00:34,719

hatchway that was made by fyodor

16

00:00:39,110 --> 00:00:37,520

yurchikhin the new station commander as

17

00:00:42,470 --> 00:00:39,120

novitskiy and pesquet began the

18

00:00:45,270 --> 00:00:42,480

procedures to close the hatch to conduct

19

00:00:47,190 --> 00:00:45,280

leak checks to make sure that we have a

20

00:00:49,990 --> 00:00:47,200

tight seal at the docking interface

21

00:00:52,229 --> 00:00:50,000

between the soyuz and the rassvet module

22

00:00:54,229 --> 00:00:52,239

at the earth-facing port of the

23

00:00:57,350 --> 00:00:54,239

international space station's russian

24

00:01:00,150 --> 00:00:57,360

segment at 2 31 a.m central time the

25

00:01:02,709 --> 00:01:00,160

soyuz hatch swung shut just about a

26

00:01:04,630 --> 00:01:02,719

minute later the rassvet module hatch

27

00:01:06,390 --> 00:01:04,640

was closed and

28

00:01:09,190 --> 00:01:06,400

the two crew members in the soyuz

29

00:01:14,469 --> 00:01:09,200

novitskiy and pesquet began the work for

30

00:01:19,429 --> 00:01:16,630

we confirm that mechanical connection is

31

00:01:44,469 --> 00:01:19,439

no longer eliminated

32

00:01:48,069 --> 00:01:45,190

and

33

00:01:49,109 --> 00:01:48,079

we confirm separation we see that the

34

00:01:50,550 --> 00:01:49,119

message

35

00:01:52,950 --> 00:01:50,560

ss vepe

36

00:01:55,510 --> 00:01:52,960

or docking an internal transfer system

37

00:01:57,749 --> 00:01:55,520

mode has been completed

38

00:02:01,350 --> 00:01:57,759

over the border between mongolia and

39

00:02:03,670 --> 00:02:01,360

china the soyuz ms-03 now has undocked

40

00:02:06,950 --> 00:02:03,680

from the international space station

41

00:02:13,030 --> 00:02:06,960

expedition 51 officially over expedition

42

00:02:13,040 --> 00:02:20,390

timer is running

43

00:02:24,070 --> 00:02:21,430

we're moving

44

00:02:26,550 --> 00:02:24,080

undocking occurring right on time at 5

45

00:02:29,510 --> 00:02:26,560

47 a.m central time

46

00:02:31,350 --> 00:02:29,520

again the undocking occurring on time as

47

00:02:33,589 --> 00:02:31,360

the international space station passed

48

00:02:38,070 --> 00:02:33,599

over the border between mongolia and

49

00:02:44,470 --> 00:02:39,830

where is the bell

50

00:02:48,550 --> 00:02:46,470

in two minutes you're going to have the

51  
00:02:53,509 --> 00:02:48,560  
first burn

52  
00:02:56,710 --> 00:02:55,430  
nowitzki and pesquet have begun the

53  
00:02:58,229 --> 00:02:56,720  
journey home

54  
00:03:00,149 --> 00:02:58,239  
we'll be standing by for the first of

55  
00:03:02,630 --> 00:03:00,159  
two separation burns this will be an

56  
00:03:03,990 --> 00:03:02,640  
automated eight-second burn

57  
00:03:07,110 --> 00:03:04,000  
of uh the

58  
00:03:11,509 --> 00:03:07,120  
soyuz engines the image is very clear

59  
00:03:16,830 --> 00:03:14,470  
on the camera that's the beam module

60  
00:03:44,390 --> 00:03:16,840  
that's right

61  
00:03:48,309 --> 00:03:45,990  
less than a minute away from the first

62  
00:03:50,630 --> 00:03:48,319  
of two separation burns that will

63  
00:03:53,429 --> 00:03:50,640

increase the opening rate of the soyuz

64

00:04:09,509 --> 00:03:53,439

from the international space station

65

00:04:13,830 --> 00:04:12,229

this view now from the soyuz as it backs

66

00:04:16,069 --> 00:04:13,840

away from the station through russian

67

00:04:39,030 --> 00:04:16,079

ground stations

68

00:04:39,040 --> 00:04:43,670

five seconds

69

00:04:47,830 --> 00:04:45,670

we confirmed that both thrusters get

70

00:04:49,909 --> 00:04:47,840

full command the first of two separation

71

00:04:52,710 --> 00:04:49,919

burns now underway again a quick

72

00:04:54,790 --> 00:04:52,720

eight-second burn

73

00:05:01,590 --> 00:04:54,800

that increases the opening rate of the

74

00:05:04,950 --> 00:05:03,590

and this first separation burn is

75

00:05:07,510 --> 00:05:04,960

complete and

76

00:05:09,430 --> 00:05:07,520

was reported to be good

77

00:05:10,950 --> 00:05:09,440

the second of the two burns is about a

78

00:05:13,749 --> 00:05:10,960

minute and 20 seconds from now and

79

00:05:16,790 --> 00:05:13,759

that'll be a slightly longer burn of 15

80

00:05:16,800 --> 00:05:21,590

going on nominally as well

81

00:05:33,270 --> 00:05:26,390

we confirm that the maneuver is complete

82

00:05:37,670 --> 00:05:35,270

and we are

83

00:05:39,510 --> 00:05:37,680

turning

84

00:05:41,590 --> 00:05:39,520

15 seconds

85

00:05:43,590 --> 00:05:41,600

into the burn and the burn is complete

86

00:05:46,230 --> 00:05:43,600

everything went well with both of the

87

00:05:49,670 --> 00:05:46,240

separation burns for the soyuz vehicle

88

00:05:51,670 --> 00:05:49,680

it also uh has completed its maneuver as

89

00:05:53,270 --> 00:05:51,680

it moves farther and further away from

90

00:05:55,430 --> 00:05:53,280

the international space station

91

00:06:00,469 --> 00:05:55,440

undocking occurring just a few minutes

92

00:06:05,430 --> 00:06:01,670

that uh

93

00:06:07,830 --> 00:06:05,440

the voice of an interpreter uh good luck

94

00:06:09,670 --> 00:06:07,840

to you guys reporting uh what uh russian

95

00:06:12,070 --> 00:06:09,680

flight controllers are saying to the

96

00:06:13,270 --> 00:06:12,080

crew on board the soyuz ms-03 that you

97

00:06:14,550 --> 00:06:13,280

see there

98

00:06:16,710 --> 00:06:14,560

uh fading

99

00:06:18,230 --> 00:06:16,720

further and further away from view as it

100

00:06:20,469 --> 00:06:18,240

continues to separate from the

101  
00:06:22,870 --> 00:06:20,479  
international space station following

102  
00:06:26,469 --> 00:06:22,880  
its undocking nine minutes ago no i'm

103  
00:06:29,110 --> 00:06:26,479  
just saying good luck guys safe landing

104  
00:06:31,430 --> 00:06:29,120  
this is further speaking

105  
00:06:33,909 --> 00:06:31,440  
to you and to tamar

106  
00:06:36,150 --> 00:06:33,919  
thank you so much we'll see you soon see

107  
00:06:38,070 --> 00:06:36,160  
you on the ground

108  
00:06:39,830 --> 00:06:38,080  
well let's just say your departure was

109  
00:07:13,990 --> 00:06:39,840  
just a beauty

110  
00:07:29,589 --> 00:07:15,909  
standing by for the firing of the soft

111  
00:07:34,710 --> 00:07:32,070  
touchdown the soyuz is back on earth

112  
00:07:37,909 --> 00:07:34,720  
with oleg novitskiy and tomah pesquet

113  
00:07:38,790 --> 00:07:37,919

landing occurring at 9 10 a.m central

114

00:08:08,150 --> 00:07:38,800

time

115

00:08:12,469 --> 00:08:10,390

and an excellent view of oleg novitskiy

116

00:08:16,230 --> 00:08:12,479

the soyuz commander

117

00:08:17,670 --> 00:08:16,240

in the center seat of the descent module

118

00:08:20,070 --> 00:08:17,680

handing

119

00:08:22,790 --> 00:08:20,080

flight documentation and

120

00:08:25,670 --> 00:08:22,800

systems books to the inergia recovery

121

00:08:27,110 --> 00:08:25,680

personnel thomas pesquet is to his left

122

00:08:31,670 --> 00:08:27,120

just out of the field of view at the

123

00:08:35,829 --> 00:08:33,190

oleg novitskiy

124

00:08:38,870 --> 00:08:35,839

talking to

125

00:08:40,550 --> 00:08:38,880

inergia personnel at the landing site

126

00:08:43,110 --> 00:08:40,560

the

127

00:09:06,470 --> 00:08:43,120

temperatures are summerlike