



1  
00:00:05,590 --> 00:00:03,590  
and as you can see the gathering light

2  
00:00:07,670 --> 00:00:05,600  
from this camera

3  
00:00:10,230 --> 00:00:07,680  
on the aft end of the zvezda service

4  
00:00:13,030 --> 00:00:10,240  
module near the docking port to which

5  
00:00:14,150 --> 00:00:13,040  
the atv will link up some 49 minutes

6  
00:00:16,630 --> 00:00:14,160  
from now

7  
00:00:19,990 --> 00:00:16,640  
showing uh the george lumatra with its

8  
00:00:22,550 --> 00:00:20,000  
flashing lights looking straight ahead

9  
00:00:30,630 --> 00:00:22,560  
ready to resume its final approach to

10  
00:00:35,430 --> 00:00:33,110  
less than 200 meters now separating uh

11  
00:00:36,630 --> 00:00:35,440  
george lumatra from the zvezda service

12  
00:00:39,350 --> 00:00:36,640  
module

13  
00:00:42,470 --> 00:00:39,360

as it moves uh steady as she goes

14

00:00:45,190 --> 00:00:42,480

closing in in flawless fashion

15

00:00:48,069 --> 00:00:45,200

you can see this view from a camera

16

00:00:50,389 --> 00:00:48,079

positioned on the aft port of the zvezda

17

00:00:53,350 --> 00:00:50,399

service module all of georges le

18

00:00:56,069 --> 00:00:53,360

mantra's systems in excellent shape

19

00:00:58,470 --> 00:00:56,079

the actual final ingress with the air

20

00:01:00,549 --> 00:00:58,480

scrubbing having been completed

21

00:01:02,709 --> 00:01:00,559

will not occur until the wee hours

22

00:01:05,429 --> 00:01:02,719

thursday morning at which point gerst

23

00:01:08,070 --> 00:01:05,439

and schwarzoff will begin to unload

24

00:01:09,910 --> 00:01:08,080

the atv's cargo in a very methodical

25

00:01:12,109 --> 00:01:09,920

process quite a bit of cargo being

26

00:01:15,190 --> 00:01:12,119

carried on board

27

00:01:18,550 --> 00:01:15,200

5910 pounds of dry cargo

28

00:01:20,230 --> 00:01:18,560

some 1900 pounds of transfer propellant

29

00:01:22,789 --> 00:01:20,240

that will be automatically transferred

30

00:01:24,789 --> 00:01:22,799

into the tanks in the russian segment of

31

00:01:29,429 --> 00:01:24,799

the international space station leaving

32

00:01:32,149 --> 00:01:29,439

some 4 670 pounds of prop available in

33

00:01:34,710 --> 00:01:32,159

the atv itself for reboosts and other

34

00:01:35,789 --> 00:01:34,720

maneuvers of the station when required

35

00:01:40,230 --> 00:01:35,799

there are some

36

00:01:42,389 --> 00:01:40,240

1858 pounds of water 220 pounds of gas

37

00:01:45,950 --> 00:01:42,399

and a pair of oxygen tanks and one tank

38

00:01:50,389 --> 00:01:45,960

of air a total of some 14

39

00:01:53,429 --> 00:01:50,399

555 pounds of cargo and supplies 7.2

40

00:02:05,670 --> 00:01:53,439

tons in this final delivery call for the

41

00:02:09,270 --> 00:02:08,389

moscow station on vhf1 how do you read

42

00:02:11,110 --> 00:02:09,280

us

43

00:02:13,670 --> 00:02:11,120

we have you loud and clear alexander

44

00:02:21,750 --> 00:02:13,680

okay then let's go over to vhf one and

45

00:02:26,790 --> 00:02:23,350

copies

46

00:02:29,030 --> 00:02:26,800

crew is inaudible on vhf1

47

00:02:35,350 --> 00:02:29,040

all systems are nominal

48

00:02:39,030 --> 00:02:36,790

range rate is

49

00:02:42,150 --> 00:02:39,040

zero decimal zero seven

50

00:02:45,430 --> 00:02:42,160

and we're back on s-band so let's go

51  
00:02:47,430 --> 00:02:45,440  
back over to space to ground one

52  
00:02:50,150 --> 00:02:47,440  
this view um zero

53  
00:02:51,430 --> 00:02:50,160  
of the approach uh for docking by george

54  
00:03:01,509 --> 00:02:51,440  
lumatra

55  
00:03:01,519 --> 00:03:06,470  
zero decimal zero seven

56  
00:03:06,480 --> 00:03:14,149  
and the target is nominal copy

57  
00:03:18,869 --> 00:03:16,949  
12 feet now separating the two vehicles

58  
00:03:21,030 --> 00:03:18,879  
zero decimal zero seven

59  
00:03:24,789 --> 00:03:21,040  
target is clearly visible

60  
00:03:28,470 --> 00:03:26,710  
gerst and schwarzoff are providing a

61  
00:03:29,750 --> 00:03:28,480  
running commentary to the russian flight

62  
00:03:32,390 --> 00:03:29,760  
control team

63  
00:03:42,710 --> 00:03:32,400

we are now at the ground hands-off point

64

00:03:42,720 --> 00:03:52,949

five feet away

65

00:03:57,429 --> 00:03:55,509

the crew is now hands off 3.2 feet

66

00:03:58,550 --> 00:03:57,439

separating standing by for contact and

67

00:04:13,350 --> 00:03:58,560

capture

68

00:04:18,150 --> 00:04:15,110

target

69

00:04:19,590 --> 00:04:18,160

is in the center copy

70

00:04:26,550 --> 00:04:19,600

score

71

00:04:29,909 --> 00:04:28,550

doc and confirmed

72

00:04:32,629 --> 00:04:29,919

copy

73

00:04:34,629 --> 00:04:32,639

contact and capture at 8 30 a.m central

74

00:04:36,790 --> 00:04:34,639

time right on the dot over southern

75

00:04:38,870 --> 00:04:36,800

kazakhstan

76

00:04:41,749 --> 00:04:38,880

george lumatra has completed the final

77

00:04:43,990 --> 00:04:41,759

docking of an automated transfer vehicle