



1
00:00:06,070 --> 00:00:03,030
undocking confirmed physical separation

2
00:00:11,669 --> 00:00:10,470
at 4 51 pm central time 5 51 pm eastern

3
00:00:14,310 --> 00:00:11,679
time

4
00:00:16,710 --> 00:00:14,320
as the soyuz tma-20m spacecraft and the

5
00:00:19,750 --> 00:00:16,720
international space station flew 258

6
00:00:21,269 --> 00:00:19,760
statute miles over eastern mongolia

7
00:00:22,230 --> 00:00:21,279
separation

8
00:00:25,509 --> 00:00:22,240
of the

9
00:00:27,429 --> 00:00:25,519
copy

10
00:00:29,429 --> 00:00:27,439
an outstanding view from the truss

11
00:00:31,669 --> 00:00:29,439
camera one of the new hd external

12
00:00:34,630 --> 00:00:31,679
cameras

13
00:00:36,310 --> 00:00:34,640

expedition 49 technically

14

00:00:38,389 --> 00:00:36,320

underway

15

00:00:40,310 --> 00:00:38,399

there are no objects

16

00:00:42,389 --> 00:00:40,320

in it so nothing

17

00:00:44,229 --> 00:00:42,399

no foreign objects the journey home

18

00:00:56,549 --> 00:00:44,239

begins for williams of chinan and

19

00:00:56,559 --> 00:01:02,150

he's

20

00:01:05,750 --> 00:01:04,149

is done so now we are

21

00:01:25,109 --> 00:01:05,760

getting ready for

22

00:01:29,910 --> 00:01:27,350

thirty we have a

23

00:01:53,990 --> 00:01:29,920

selection of the thrusters

24

00:01:59,590 --> 00:01:56,069

now a view from the black and white

25

00:02:02,149 --> 00:01:59,600

external engineering camera

26
00:02:03,030 --> 00:02:02,159
on the soyuz vehicle showing it backing

27
00:02:05,350 --> 00:02:03,040
away

28
00:02:14,790 --> 00:02:05,360
from the poisk module to which it was

29
00:02:25,990 --> 00:02:16,949
visually we see that

30
00:02:29,990 --> 00:02:27,910
about 40 seconds away from the first of

31
00:02:55,750 --> 00:02:30,000
two separation burns by the soyuz

32
00:03:16,869 --> 00:02:59,350
in 30 seconds we expect

33
00:03:16,879 --> 00:03:19,750
yes

34
00:03:23,589 --> 00:03:21,270
and the first of the two separation

35
00:03:25,509 --> 00:03:23,599
burns underway

36
00:03:27,190 --> 00:03:25,519
this is an eight-second burn

37
00:03:28,949 --> 00:03:27,200
of about five tenths of a meter per

38
00:03:30,949 --> 00:03:28,959

second to increase the opening rate of

39

00:03:33,670 --> 00:03:30,959

the soyuz from the international space

40

00:03:37,350 --> 00:03:33,680

station it was eight seconds and now

41

00:03:39,990 --> 00:03:37,360

we're maneuvering along the raw attitude

42

00:03:42,070 --> 00:03:40,000

and uh roll maneuver is underway to

43

00:03:44,390 --> 00:03:42,080

place the soyuz in the proper attitude

44

00:03:46,789 --> 00:03:44,400

and orientation for the second of these

45

00:03:49,910 --> 00:03:46,799

two separation burns a much larger burn

46

00:03:52,309 --> 00:03:49,920

coming up of 30 seconds in duration uh

47

00:03:55,509 --> 00:03:52,319

that is is expected within the next

48

00:04:05,670 --> 00:03:58,149

so we confirmed 21 degrees along the

49

00:04:10,229 --> 00:04:08,149

so in 40 seconds we expect the

50

00:04:15,589 --> 00:04:10,239

separation burn number two

51
00:04:21,189 --> 00:04:18,629
again undocking occurring on time at 4

52
00:04:24,230 --> 00:04:21,199
51 pm central time

53
00:04:27,189 --> 00:04:24,240
as the soyuz tma-20m spacecraft and the

54
00:04:51,990 --> 00:04:27,199
international space station flew 258

55
00:04:57,590 --> 00:04:53,990
and the second separation burn is

56
00:05:02,390 --> 00:04:57,600
underway 30 second burn

57
00:05:02,400 --> 00:05:19,510
25 seconds

58
00:05:19,520 --> 00:05:36,550
we've got the instructions for the cycle

59
00:05:36,560 --> 00:05:40,710
we confirm

60
00:05:40,720 --> 00:06:00,790
e1

61
00:06:15,270 --> 00:06:02,950
yes please go ahead do s convenient for

62
00:06:18,830 --> 00:06:17,830
this view of the control panel in the

63
00:06:22,550 --> 00:06:18,840

soyuz

64

00:06:24,150 --> 00:06:22,560

vehicle with all the various parameters

65

00:06:28,230 --> 00:06:24,160

this is the final

66

00:06:29,830 --> 00:06:28,240

in the series of tma vehicles the 20m

67

00:06:31,909 --> 00:06:29,840

that is coming home for a landing in

68

00:07:49,830 --> 00:06:31,919

south central kazakhstan landing about

69

00:07:55,749 --> 00:07:52,629

a good view of the soyuz tma-20m

70

00:07:55,759 --> 00:08:07,830

moscow this is

71

00:08:07,840 --> 00:08:17,670

zero one zero five

72

00:08:23,189 --> 00:08:20,710

these soyuz will continue to make its

73

00:08:25,510 --> 00:08:23,199

way to a safe distance away from the

74

00:08:27,749 --> 00:08:25,520

international space station

75

00:08:29,589 --> 00:08:27,759

for the next major milestone which will

76

00:08:54,070 --> 00:08:29,599

be the deorbit burn coming up in two

77

00:08:59,269 --> 00:08:56,870

alexei of chenin will be deactivating

78

00:09:00,230 --> 00:08:59,279

the soyuz docking mechanism no longer

79

00:09:02,790 --> 00:09:00,240

needed

80

00:09:09,910 --> 00:09:02,800

and is deactivating the television

81

00:09:15,110 --> 00:09:12,550

they will begin to set their controls in

82

00:09:17,509 --> 00:09:15,120

the descent module for the dynamic

83

00:09:23,910 --> 00:09:17,519

operations as they enter the descent

84

00:09:30,070 --> 00:09:25,750

there will be a bit of free time for the

85

00:09:33,190 --> 00:09:30,080

crew as they prepare for descent

86

00:09:35,910 --> 00:09:33,200

meanwhile at the landing site in south

87

00:09:38,710 --> 00:09:35,920

central kazakhstan the landing team

88

00:09:39,910 --> 00:09:38,720

the russian search and recovery forces

89

00:09:43,110 --> 00:09:39,920

along

90

00:09:46,070 --> 00:09:43,120

with the embedded nasa landing team

91

00:09:48,550 --> 00:09:46,080

led by sean fuller the director of human

92

00:09:51,829 --> 00:09:48,560

space flight operations in russia will

93

00:09:55,030 --> 00:09:51,839

soon be preparing uh to make their way

94

00:09:57,509 --> 00:09:55,040

to the jez khasgon airport uh for the go

95

00:10:00,150 --> 00:09:57,519

ahead from the search and recovery team