



**Space**to**Ground**

1  
00:00:06,630 --> 00:00:05,110  
houston station on space to ground

2  
00:00:09,030 --> 00:00:06,640  
welcome to space to ground i'm leah

3  
00:00:11,030 --> 00:00:09,040  
cheshire mustachio three russian space

4  
00:00:12,709 --> 00:00:11,040  
explorers are preparing for their return

5  
00:00:15,270 --> 00:00:12,719  
to earth

6  
00:00:16,870 --> 00:00:15,280  
on october 16th russian cosmonaut oleg

7  
00:00:18,710 --> 00:00:16,880  
novitskiy will command the soyuz

8  
00:00:20,790 --> 00:00:18,720  
spacecraft carrying russian actress

9  
00:00:22,790 --> 00:00:20,800  
yulia piercely and producer klim

10  
00:00:25,189 --> 00:00:22,800  
shipinko as it undocks from the space

11  
00:00:28,150 --> 00:00:25,199  
station nowitzki's mission will conclude

12  
00:00:30,870 --> 00:00:28,160  
after 191 days bringing him to a career

13  
00:00:31,830 --> 00:00:30,880

total of 531 days in space over three

14

00:00:33,670 --> 00:00:31,840

flights

15

00:00:35,670 --> 00:00:33,680

space flight participants paracelled and

16

00:00:37,270 --> 00:00:35,680

chapinko returned to earth with 12 days

17

00:00:39,030 --> 00:00:37,280

in space during which they filmed

18

00:00:41,110 --> 00:00:39,040

portions of an upcoming movie titled

19

00:00:42,790 --> 00:00:41,120

challenge the trio will parachute to a

20

00:00:45,430 --> 00:00:42,800

landing on the step of kazakhstan at

21

00:00:47,830 --> 00:00:45,440

approximately 12 36 a.m eastern time on

22

00:00:50,229 --> 00:00:47,840

october 17th you can watch farewells

23

00:00:53,110 --> 00:00:50,239

undocking and landing live on nasa tv

24

00:00:54,869 --> 00:00:53,120

the agency's website and the nasa app

25

00:00:56,869 --> 00:00:54,879

the space station crew is preparing for

26  
00:00:58,869 --> 00:00:56,879  
one russian cargo ship to relocate and

27  
00:01:01,590 --> 00:00:58,879  
for another to arrive

28  
00:01:03,510 --> 00:01:01,600  
on october 20th the progress 78 resupply

29  
00:01:05,910 --> 00:01:03,520  
ship will undock from the poisk module

30  
00:01:08,149 --> 00:01:05,920  
but its mission isn't over yet just over

31  
00:01:10,630 --> 00:01:08,159  
24 hours later it will re-dock to the

32  
00:01:13,030 --> 00:01:10,640  
nyuka module a few days later the

33  
00:01:15,109 --> 00:01:13,040  
progress 79 resupply craft will dock to

34  
00:01:17,990 --> 00:01:15,119  
the zvezda module after it launches on

35  
00:01:20,070 --> 00:01:18,000  
october 27th nasa tv will provide live

36  
00:01:22,469 --> 00:01:20,080  
coverage of the progress 78 redocking

37  
00:01:24,230 --> 00:01:22,479  
and progress 79 launch

38  
00:01:26,950 --> 00:01:24,240

three cubesats developed by students

39

00:01:28,550 --> 00:01:26,960  
were shot into space this week

40

00:01:31,030 --> 00:01:28,560  
students from the universidad enter

41

00:01:33,270 --> 00:01:31,040  
americana de puerto rico university of

42

00:01:35,030 --> 00:01:33,280  
illinois urbana-champaign and university

43

00:01:36,390 --> 00:01:35,040  
of michigan developed three separate

44

00:01:38,230 --> 00:01:36,400  
cubesats to be launched from the

45

00:01:40,149 --> 00:01:38,240  
international space station these

46

00:01:42,310 --> 00:01:40,159  
breadbox size payloads were deployed

47

00:01:43,429 --> 00:01:42,320  
using the nanoracks cubesat deployer and

48

00:01:45,270 --> 00:01:43,439  
will conduct research before

49

00:01:46,870 --> 00:01:45,280  
disintegrating upon re-entry into the

50

00:01:48,469 --> 00:01:46,880  
earth's atmosphere through these

51  
00:01:50,230 --> 00:01:48,479  
cubesats students will study the

52  
00:01:52,550 --> 00:01:50,240  
practicality of communicating at high

53  
00:01:53,990 --> 00:01:52,560  
data rates how particles stick rebound

54  
00:01:55,910 --> 00:01:54,000  
or fragment based on their mass and

55  
00:01:58,389 --> 00:01:55,920  
composition how to improve thermal

56  
00:02:01,350 --> 00:01:58,399  
control on future cubesats and potential

57  
00:02:03,270 --> 00:02:01,360  
radiation mitigation techniques

58  
00:02:07,360 --> 00:02:03,280  
that's all for today on space to ground

59  
00:02:07,370 --> 00:02:14,309  
[Music]

60  
00:02:23,110 --> 00:02:16,880  
subscribe for more space