



SPACE TO GROUND

1
00:00:07,590 --> 00:00:03,750
houston station on space to ground

2
00:00:09,589 --> 00:00:07,600
no shortage of smoke and fire this week

3
00:00:12,470 --> 00:00:09,599
welcome to space to ground i'm dan

4
00:00:14,470 --> 00:00:12,480
hewitt orbital atk kick things off with

5
00:00:17,510 --> 00:00:14,480
their triumphant return to the wallops

6
00:00:19,910 --> 00:00:17,520
flight facility the company packed its

7
00:00:22,870 --> 00:00:19,920
sixth cygnus cargo craft with more than

8
00:00:25,189 --> 00:00:22,880
5 100 pounds of science and supplies for

9
00:00:27,029 --> 00:00:25,199
the international space station crew

10
00:00:30,390 --> 00:00:27,039
then it was time to roll out the new

11
00:00:32,790 --> 00:00:30,400
version of its antares rocket to pad 0-a

12
00:00:34,709 --> 00:00:32,800
at the mid-atlantic regional spaceport

13
00:00:37,430 --> 00:00:34,719

being used for the first time since a

14

00:00:39,990 --> 00:00:37,440

failure in october 2014.

15

00:00:41,910 --> 00:00:40,000

the rocket engines roared to life monday

16

00:00:44,869 --> 00:00:41,920

evening and lit up the night sky with a

17

00:00:46,549 --> 00:00:44,879

flawless ascent one visible from up and

18

00:00:48,950 --> 00:00:46,559

down the east coast

19

00:00:51,430 --> 00:00:48,960

now in orbit cygnus will loiter until

20

00:00:53,510 --> 00:00:51,440

october 23rd when it will arrive to be

21

00:00:55,029 --> 00:00:53,520

grappled by kate rubins and takuya

22

00:00:56,630 --> 00:00:55,039

onishi

23

00:00:58,389 --> 00:00:56,640

meanwhile on the other side of the

24

00:01:00,549 --> 00:00:58,399

planet the next station crew was

25

00:01:03,029 --> 00:01:00,559

readying for liftoff

26
00:01:05,830 --> 00:01:03,039
nasa's shane kimbrough and cosmonauts

27
00:01:07,990 --> 00:01:05,840
sergey rizhikov and andre borisenko

28
00:01:09,830 --> 00:01:08,000
underwent final preparations for their

29
00:01:11,109 --> 00:01:09,840
launch from the baikonur cosmodrome in

30
00:01:12,789 --> 00:01:11,119
kazakhstan

31
00:01:14,310 --> 00:01:12,799
the trio went through their final

32
00:01:16,469 --> 00:01:14,320
checkouts while their rocket and

33
00:01:18,950 --> 00:01:16,479
spacecraft were once again mated and

34
00:01:20,870 --> 00:01:18,960
rolled out to the pad this was attempt

35
00:01:23,429 --> 00:01:20,880
number two for this launch which was

36
00:01:25,109 --> 00:01:23,439
previously postponed from september so

37
00:01:27,749 --> 00:01:25,119
engineers could fix an issue with the

38
00:01:30,469 --> 00:01:27,759

soyuz but everything lined up on

39

00:01:32,550 --> 00:01:30,479

wednesday for a spectacular show the

40

00:01:34,950 --> 00:01:32,560

crew suited up in the morning waved

41

00:01:36,630 --> 00:01:34,960

goodbye to family friends and co-workers

42

00:01:37,590 --> 00:01:36,640

then made the hike to the top of the

43

00:01:39,670 --> 00:01:37,600

rocket

44

00:01:41,990 --> 00:01:39,680

the soyuz lifted off in a cold and

45

00:01:44,389 --> 00:01:42,000

cloudy day in baikonur and completed the

46

00:01:46,149 --> 00:01:44,399

nine-minute climb to orbit the three

47

00:01:48,149 --> 00:01:46,159

crew members are spending two days

48

00:01:50,389 --> 00:01:48,159

chasing down the station so they can

49

00:01:53,590 --> 00:01:50,399

conduct control tests and maneuvers in

50

00:01:55,590 --> 00:01:53,600

their new version of the soyuz the ms-02

51

00:01:57,830 --> 00:01:55,600

once they arrive on friday they'll dock

52

00:02:00,069 --> 00:01:57,840

to the poisk module and the station will

53

00:02:02,069 --> 00:02:00,079

be back at full strike

54

00:02:04,230 --> 00:02:02,079

keep sending in your questions using the