



Spaceto**Ground**

1
00:00:00,490 --> 00:00:04,950

[Music]

2
00:00:08,390 --> 00:00:06,470

welcome to space to ground i'm chelsea

3
00:00:11,030 --> 00:00:08,400

ballarte fireworks weren't the only

4
00:00:13,030 --> 00:00:11,040

lights in the sky this july a spacex

5
00:00:14,470 --> 00:00:13,040

cargo dragon spacecraft has launched and

6
00:00:17,349 --> 00:00:14,480

is making its way to the international

7
00:00:19,429 --> 00:00:17,359

space station

8
00:00:21,029 --> 00:00:19,439

spacex's 25th commercial resupply

9
00:00:24,150 --> 00:00:21,039

services mission launched off the coast

10
00:00:26,550 --> 00:00:24,160

of florida at 8 44 pm eastern on july

11
00:00:28,390 --> 00:00:26,560

14th our cargo dragon spacecraft is

12
00:00:30,390 --> 00:00:28,400

carrying dozens of new experiments to

13
00:00:32,310 --> 00:00:30,400

the orbiting laboratory we're sending

14

00:00:34,549 --> 00:00:32,320

immune cells to seek new methods to

15

00:00:35,990 --> 00:00:34,559

treat immune system aging an imaging

16

00:00:38,389 --> 00:00:36,000

spectrometer that will measure the

17

00:00:40,150 --> 00:00:38,399

effects of mineral dust on our planet

18

00:00:41,910 --> 00:00:40,160

and a student gene experiment that could

19

00:00:44,310 --> 00:00:41,920

lay the foundation for downstream

20

00:00:46,229 --> 00:00:44,320

applications of biosensors for space

21

00:00:48,310 --> 00:00:46,239

exploration and resource limited

22

00:00:50,229 --> 00:00:48,320

settings on earth another experiment

23

00:00:52,630 --> 00:00:50,239

hitching a ride on the station is beaver

24

00:00:55,189 --> 00:00:52,640

cube a small satellite expected to take

25

00:00:57,750 --> 00:00:55,199

color images of the oceans and thermal

26
00:00:59,349 --> 00:00:57,760
images of cloud tops collecting data on

27
00:01:00,950 --> 00:00:59,359
the temperatures of both could help

28
00:01:03,029 --> 00:01:00,960
scientists learn more about earth's

29
00:01:04,710 --> 00:01:03,039
climate and weather the spacecraft is

30
00:01:07,350 --> 00:01:04,720
set to arrive at the space station on

31
00:01:09,750 --> 00:01:07,360
july 16th it's expected to dock around

32
00:01:11,510 --> 00:01:09,760
11 20 a.m eastern but will be live in

33
00:01:13,270 --> 00:01:11,520
mission control following the operation

34
00:01:15,830 --> 00:01:13,280
starting at 10. be sure to catch the

35
00:01:17,429 --> 00:01:15,840
autonomous docking on nasa tv your nasa

36
00:01:18,630 --> 00:01:17,439
app or follow the mission on social

37
00:01:20,469 --> 00:01:18,640
media

38
00:01:22,149 --> 00:01:20,479

if anyone were to go dumpster diving

39

00:01:24,230 --> 00:01:22,159

aboard the international space station

40

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

they might find items like packing

41

00:01:29,190 --> 00:01:26,960

material dirty clothes office supplies

42

00:01:31,590 --> 00:01:29,200

and hygiene products that's exactly what

43

00:01:33,510 --> 00:01:31,600

made up the 172 pounds of trash

44

00:01:35,270 --> 00:01:33,520

eliminated during a test

45

00:01:37,109 --> 00:01:35,280

last week our partners at nano racks

46

00:01:39,190 --> 00:01:37,119

tried out a new method of taking out the

47

00:01:41,510 --> 00:01:39,200

trash and it was the first open closed

48

00:01:43,429 --> 00:01:41,520

cycle of the bishop airlock the process

49

00:01:45,109 --> 00:01:43,439

is simple the astronauts fill the waste

50

00:01:47,030 --> 00:01:45,119

container and the trash bag is released

51
00:01:48,950 --> 00:01:47,040
to burn up in earth's atmosphere the

52
00:01:50,469 --> 00:01:48,960
empty container is then remounted ready

53
00:01:51,910 --> 00:01:50,479
for more

54
00:01:53,510 --> 00:01:51,920
even though the astronauts are busy

55
00:01:55,670 --> 00:01:53,520
getting ready for their upcoming cargo

56
00:01:57,749 --> 00:01:55,680
delivery they still made time to catch a

57
00:02:00,469 --> 00:01:57,759
glimpse of the first images of the james

58
00:02:02,389 --> 00:02:00,479
webb space telescope nasa astronauts

59
00:02:04,149 --> 00:02:02,399
chell lindgren bob hines and jessica

60
00:02:06,630 --> 00:02:04,159
watkins took to twitter to share their

61
00:02:08,869 --> 00:02:06,640
excitement lindgren said it best they're

62
00:02:10,389 --> 00:02:08,879
absolutely breathtaking

63
00:02:12,150 --> 00:02:10,399

that's all for today on space to ground

64

00:02:15,640 --> 00:02:12,160

thanks so much for watching see you next