



Space**to**Ground

1
00:00:00,490 --> 00:00:04,870

[Music]

2
00:00:09,110 --> 00:00:06,550

welcome to space to ground i'm chelsea

3
00:00:11,270 --> 00:00:09,120

bayarte can you believe it's been five

4
00:00:12,789 --> 00:00:11,280

years since the advanced plant habitat

5
00:00:16,150 --> 00:00:12,799

launched to the international space

6
00:00:19,029 --> 00:00:16,160

station since 2017 the habitat has grown

7
00:00:21,109 --> 00:00:19,039

wheat radishes chili peppers and we're

8
00:00:22,550 --> 00:00:21,119

just getting started this week on the

9
00:00:23,990 --> 00:00:22,560

space station the astronauts are

10
00:00:25,269 --> 00:00:24,000

prepping the habitat for its next

11
00:00:28,870 --> 00:00:25,279

experiment

12
00:00:31,349 --> 00:00:28,880

whether gene adaptations in one

13
00:00:33,750 --> 00:00:31,359

generation of plants grown in space can

14

00:00:35,670 --> 00:00:33,760

transfer to the next generation

15

00:00:37,190 --> 00:00:35,680

studying plant adaptability not only

16

00:00:38,869 --> 00:00:37,200

helps researchers better prepare

17

00:00:41,270 --> 00:00:38,879

astronauts for growing food during long

18

00:00:43,110 --> 00:00:41,280

duration missions on the moon but it can

19

00:00:44,790 --> 00:00:43,120

also provide lessons and technologies

20

00:00:46,069 --> 00:00:44,800

that could improve farming methods here

21

00:00:47,910 --> 00:00:46,079

on earth

22

00:00:50,310 --> 00:00:47,920

while astronauts are studying ways to

23

00:00:52,950 --> 00:00:50,320

grow their own food most of their meals

24

00:00:54,709 --> 00:00:52,960

are delivered using a cargo spacecraft

25

00:00:56,389 --> 00:00:54,719

one freighter has nearly completed its

26
00:00:57,670 --> 00:00:56,399
delivery and is set to come back home

27
00:00:59,990 --> 00:00:57,680
next week

28
00:01:01,670 --> 00:01:00,000
spacex's 25th commercial resupply

29
00:01:03,830 --> 00:01:01,680
services mission arrived at the space

30
00:01:06,070 --> 00:01:03,840
station back in july and delivered

31
00:01:08,070 --> 00:01:06,080
nearly 6 000 pounds of science and

32
00:01:09,590 --> 00:01:08,080
supplies to the crew in orbit

33
00:01:11,270 --> 00:01:09,600
now nearing the end of its mission the

34
00:01:13,270 --> 00:01:11,280
crew has been tasked this week with

35
00:01:14,789 --> 00:01:13,280
packing the cargo dragon for its return

36
00:01:16,710 --> 00:01:14,799
trip back to earth

37
00:01:18,310 --> 00:01:16,720
cargo dragon will return samples from

38
00:01:20,550 --> 00:01:18,320

experiments conducted on the orbiting

39

00:01:22,469 --> 00:01:20,560

laboratory for analysis by researchers

40

00:01:24,390 --> 00:01:22,479

on the ground be sure to keep up with

41

00:01:26,230 --> 00:01:24,400

the space station blog and follow at

42

00:01:29,429 --> 00:01:26,240

space underscore station for when to

43

00:01:31,510 --> 00:01:29,439

watch the undocking live on nasa tv

44

00:01:33,350 --> 00:01:31,520

also coming up next week two russian

45

00:01:34,630 --> 00:01:33,360

cosmonauts are suiting up and heading

46

00:01:35,990 --> 00:01:34,640

outside of the space station for

47

00:01:38,069 --> 00:01:36,000

spacewalk

48

00:01:40,069 --> 00:01:38,079

oleg artemyev and dennis matmiev will

49

00:01:42,710 --> 00:01:40,079

spend nearly seven hours working on the

50

00:01:44,550 --> 00:01:42,720

european robotic arm to install cameras

51
00:01:47,190 --> 00:01:44,560
remove equipment used during the arm's

52
00:01:49,510 --> 00:01:47,200
launch and more this will be the seventh

53
00:01:51,670 --> 00:01:49,520
spacewalk for artemyev and the third for

54
00:01:53,590 --> 00:01:51,680
matviev artemy have completed a

55
00:01:55,350 --> 00:01:53,600
spacewalk with european space agency

56
00:01:57,030 --> 00:01:55,360
astronaut samantha christopher reddy

57
00:01:58,870 --> 00:01:57,040
just last month

58
00:02:01,030 --> 00:01:58,880
while out on spacewalks the crew members

59
00:02:02,870 --> 00:02:01,040
are busy with their tasks but sometimes

60
00:02:04,469 --> 00:02:02,880
take a moment to look down at the beauty

61
00:02:06,230 --> 00:02:04,479
of the earth below them

62
00:02:07,990 --> 00:02:06,240
fortunately we don't have to wait until

63
00:02:10,229 --> 00:02:08,000

the next facebook to catch a glimpse of

64

00:02:12,390 --> 00:02:10,239

what they're seeing through their eyes

65

00:02:14,070 --> 00:02:12,400

nasa just released views of the earth

66

00:02:17,270 --> 00:02:14,080

captured from the international space

67

00:02:20,070 --> 00:02:17,280

station available in 4k resolution in

68

00:02:21,750 --> 00:02:20,080

nearly one hour of clips shot in 2021

69

00:02:24,869 --> 00:02:21,760

you'll find spacecraft arriving and

70

00:02:27,510 --> 00:02:24,879

departing auroras city lights at night

71

00:02:29,910 --> 00:02:27,520

and much more just hit play sit back and

72

00:02:31,350 --> 00:02:29,920

enjoy

73

00:02:33,730 --> 00:02:31,360

that's space to ground thanks so much