



SPACE TO GROUND

1
00:00:04,630 --> 00:00:02,950
houston station on space to ground

2
00:00:06,309 --> 00:00:04,640
welcome to space to ground your weekly

3
00:00:08,470 --> 00:00:06,319
look at what's happening on board the

4
00:00:10,470 --> 00:00:08,480
iss i'm dan hewitt

5
00:00:12,310 --> 00:00:10,480
robotics controllers in houston removed

6
00:00:14,950 --> 00:00:12,320
two payloads from the external trunk the

7
00:00:16,790 --> 00:00:14,960
dragon cargo craft this week first up

8
00:00:19,269 --> 00:00:16,800
was the high definition earth viewing or

9
00:00:21,029 --> 00:00:19,279
hdev camera system which was attached to

10
00:00:23,109 --> 00:00:21,039
the outside of the station and is

11
00:00:25,109 --> 00:00:23,119
already providing hd views of the earth

12
00:00:27,189 --> 00:00:25,119
that are available online

13
00:00:29,429 --> 00:00:27,199

next was the opals payload which will

14

00:00:31,750 --> 00:00:29,439

test using lasers to transmit stronger

15

00:00:33,030 --> 00:00:31,760

signals with more data from space down

16

00:00:34,950 --> 00:00:33,040

to the ground

17

00:00:37,190 --> 00:00:34,960

this week in station science commander

18

00:00:39,190 --> 00:00:37,200

koichi wakata worked on an experiment

19

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

that hopes to help solve a key space

20

00:00:43,990 --> 00:00:41,520

health issue muscle atrophy

21

00:00:45,190 --> 00:00:44,000

i am focusing and working on the

22

00:00:47,830 --> 00:00:45,200

experiment called the cell

23

00:00:49,510 --> 00:00:47,840

mechanosensing which is an investigation

24

00:00:52,150 --> 00:00:49,520

to identify

25

00:00:54,790 --> 00:00:52,160

gravity sensor in muscle cells

26

00:00:57,189 --> 00:00:54,800

and this study will help develop a new

27

00:00:59,670 --> 00:00:57,199

medicine or counter measures to muscle

28

00:01:00,950 --> 00:00:59,680

atrophy the results could also help out

29

00:01:03,349 --> 00:01:00,960

those on the ground with similar

30

00:01:06,070 --> 00:01:03,359

symptoms like patients after surgery or

31

00:01:07,830 --> 00:01:06,080

people with forms of muscular dystrophy

32

00:01:09,429 --> 00:01:07,840

this week nick asks do astronauts have

33

00:01:11,350 --> 00:01:09,439

to worry about getting sunburns while

34

00:01:12,789 --> 00:01:11,360

looking out the windows actually yes

35

00:01:15,030 --> 00:01:12,799

astronauts do have to watch out for

36

00:01:17,270 --> 00:01:15,040

sunburns most of the windows like those

37

00:01:18,789 --> 00:01:17,280

in the cupola have a uv protective

38

00:01:20,950 --> 00:01:18,799

coating but there are a handful that

39

00:01:22,950 --> 00:01:20,960

don't when using these windows the crew

40

00:01:24,710 --> 00:01:22,960

is encouraged to wear sunscreen even

41

00:01:26,710 --> 00:01:24,720

sunglasses

42

00:01:28,230 --> 00:01:26,720

star wars day may the fourth is right

43

00:01:30,550 --> 00:01:28,240

around the corner and the excitement

44

00:01:32,310 --> 00:01:30,560

isn't just here on earth astronaut rick

45

00:01:35,109 --> 00:01:32,320

mastracchio sent down a message from the

46

00:01:36,069 --> 00:01:35,119

iss but he did need a little help first

47

00:01:40,310 --> 00:01:36,079

looks like we're having some

48

00:01:43,990 --> 00:01:42,310

looks like we're back now to everyone on

49

00:01:47,030 --> 00:01:44,000

earth from the international space

50

00:01:48,630 --> 00:01:47,040

station may the 4th be with you

51
00:01:50,469 --> 00:01:48,640
to check out the may the 4th events

52
00:01:53,510 --> 00:01:50,479
happening at a nasa visitor center in

53
00:01:54,789 --> 00:01:53,520
your area go to visitnasa.com

54
00:01:56,789 --> 00:01:54,799
make sure to keep sending us your

55
00:01:59,270 --> 00:01:56,799
questions and comments using the hashtag

56
00:02:02,230 --> 00:01:59,280
[spacetoground](https://www.instagram.com/spacetoground)