



Spaceto**Ground**

1
00:00:00,179 --> 00:00:05,090
foreign

2
00:00:09,470 --> 00:00:07,309
welcome to space to ground I'm Sandra

3
00:00:11,509 --> 00:00:09,480
Jones solar arrays and science

4
00:00:14,030 --> 00:00:11,519
investigations have arrived to the space

5
00:00:16,790 --> 00:00:14,040
station and preparations are underway

6
00:00:18,890 --> 00:00:16,800
For an upcoming spacewalk to augment the

7
00:00:21,830 --> 00:00:18,900
station's power generation

8
00:00:25,250 --> 00:00:21,840
on Sunday November 27th the uncrewed

9
00:00:27,349 --> 00:00:25,260
SpaceX crs-26 cargo vehicle docked to

10
00:00:29,630 --> 00:00:27,359
the International Space Station's space

11
00:00:31,310 --> 00:00:29,640
facing Port of the harmony module after

12
00:00:33,709 --> 00:00:31,320
launching from the Kennedy Space Center

13
00:00:37,310 --> 00:00:33,719

in Florida the day prior packed inside

14

00:00:40,010 --> 00:00:37,320

the cargo Dragon were over 7 700 pounds

15

00:00:43,010 --> 00:00:40,020

of cargo science investigations and crew

16

00:00:46,310 --> 00:00:43,020

supplies including two new solar arrays

17

00:00:49,130 --> 00:00:46,320

solar arrays called ISS rollout solar

18

00:00:51,229 --> 00:00:49,140

arrays or iroses will soon be installed

19

00:00:54,650 --> 00:00:51,239

aboard the orbital Outpost during a

20

00:00:57,110 --> 00:00:54,660

spacewalk on Saturday December 3rd NASA

21

00:00:59,389 --> 00:00:57,120

astronauts Josh cassida and Frank Rubio

22

00:01:01,850 --> 00:00:59,399

will step out of the quest airlock to

23

00:01:03,830 --> 00:01:01,860

install one of two irosas delivered on

24

00:01:06,469 --> 00:01:03,840

Dragon they'll be working on the

25

00:01:08,870 --> 00:01:06,479

starboard 4 truss solar array to add

26

00:01:11,210 --> 00:01:08,880

electrical output for the station's 3B

27

00:01:13,310 --> 00:01:11,220

power Channel this will be the third of

28

00:01:15,289 --> 00:01:13,320

six atrocities currently planned for

29

00:01:17,810 --> 00:01:15,299

installation at the International Space

30

00:01:21,830 --> 00:01:17,820

Station to increase power generation up

31

00:01:24,590 --> 00:01:21,840

to 30 percent from 160 kilowatts to 215

32

00:01:27,649 --> 00:01:24,600

kilowatts in addition to solar arrays

33

00:01:29,749 --> 00:01:27,659

science also arrived on board Dragon one

34

00:01:31,850 --> 00:01:29,759

investigation looks at antibiotic

35

00:01:33,830 --> 00:01:31,860

resistance and possible ways to prevent

36

00:01:36,830 --> 00:01:33,840

this from occurring on Earth

37

00:01:39,710 --> 00:01:36,840

novel methods of antibiotic Discovery in

38

00:01:41,990 --> 00:01:39,720

space or Nomads assesses the effects of

39

00:01:43,969 --> 00:01:42,000

space on bacterial communities by

40

00:01:46,550 --> 00:01:43,979

identifying mutations and chemical

41

00:01:48,830 --> 00:01:46,560

metabolite secretions using a technology

42

00:01:51,469 --> 00:01:48,840

called the eye chip this technology

43

00:01:53,810 --> 00:01:51,479

makes it possible to process bacteria as

44

00:01:56,330 --> 00:01:53,820

well as extract and analyze genetic

45

00:01:58,490 --> 00:01:56,340

material to identify individual species

46

00:02:01,010 --> 00:01:58,500

and potential differences caused by

47

00:02:03,410 --> 00:02:01,020

space exposure the International Space

48

00:02:05,690 --> 00:02:03,420

Station provides a unique platform for

49

00:02:07,910 --> 00:02:05,700

studying how bacteria change and could

50

00:02:10,249 --> 00:02:07,920

also help combat the global problem of

51
00:02:13,070 --> 00:02:10,259
antibiotic resistance

52
00:02:15,170 --> 00:02:13,080
while space station orbits 250 miles

53
00:02:18,650 --> 00:02:15,180
above the Earth another human rated

54
00:02:20,690 --> 00:02:18,660
vehicle is a bit further away

55
00:02:23,690 --> 00:02:20,700
be sure to check out the latest episode

56
00:02:25,610 --> 00:02:23,700
of Artemis all access to learn about the

57
00:02:28,309 --> 00:02:25,620
Orion spacecraft's Journey To The Moon

58
00:02:31,130 --> 00:02:28,319
and Beyond as part of a 25 and a half

59
00:02:33,229 --> 00:02:31,140
day uncrewed test flight Orion has

60
00:02:35,270 --> 00:02:33,239
already passed the distance record for

61
00:02:38,089 --> 00:02:35,280
furthest distance from Earth for a human

62
00:02:40,250 --> 00:02:38,099
rated spacecraft and is looking ahead to

63
00:02:43,550 --> 00:02:40,260

its return journey to Earth where it

64

00:02:45,949 --> 00:02:43,560

will Splash down in the Pacific Ocean

65

00:02:48,110 --> 00:02:45,959

but from a little closer to home about

66

00:02:49,550 --> 00:02:48,120

space to ground for this week thanks so

67

00:02:51,770 --> 00:02:49,560

much for watching we'll see you next