



Space to Ground

1
00:00:00,179 --> 00:00:04,910
foreign

2
00:00:09,169 --> 00:00:07,070
welcome to space to ground I'm Jaden

3
00:00:10,430 --> 00:00:09,179
Jennings the second all-private

4
00:00:12,709 --> 00:00:10,440
astronaut mission to the International

5
00:00:14,990 --> 00:00:12,719
Space Station came to an end this week

6
00:00:16,369 --> 00:00:15,000
returning to Earth after nine days in

7
00:00:18,710 --> 00:00:16,379
space

8
00:00:20,210 --> 00:00:18,720
the Axia mission 2 crew successfully

9
00:00:23,210 --> 00:00:20,220
undocked from the station's Harmony

10
00:00:24,830 --> 00:00:23,220
module on Tuesday May 30th while aboard

11
00:00:27,109 --> 00:00:24,840
the orbiting laboratory the crew

12
00:00:29,390 --> 00:00:27,119
conducted several experiments and Acts 2

13
00:00:32,330 --> 00:00:29,400

Commander Peggy Whitson added to her U.S

14

00:00:34,970 --> 00:00:32,340

record for the most days in space at 675

15

00:00:37,069 --> 00:00:34,980

days on four space flights

16

00:00:39,229 --> 00:00:37,079

while one spacecraft returns from the

17

00:00:40,750 --> 00:00:39,239

space station another one is ready to

18

00:00:44,090 --> 00:00:40,760

take its place

19

00:00:45,470 --> 00:00:44,100

X's 28th commercial resupply mission is

20

00:00:47,930 --> 00:00:45,480

scheduled to launch from the Kennedy

21

00:00:49,790 --> 00:00:47,940

Space Center on Saturday June 3rd the

22

00:00:51,830 --> 00:00:49,800

uncrewed dragon spacecraft is carrying

23

00:00:53,630 --> 00:00:51,840

scientific experiments and Technology

24

00:00:56,569 --> 00:00:53,640

demonstrations that will help benefit

25

00:00:59,090 --> 00:00:56,579

Humanity on and off the planet one

26
00:01:00,830 --> 00:00:59,100
payload on this mission is Thor Davis an

27
00:01:03,229 --> 00:01:00,840
investigation from the European Space

28
00:01:05,149 --> 00:01:03,239
Agency the vantage point of the space

29
00:01:07,070 --> 00:01:05,159
station will allow researchers to

30
00:01:09,109 --> 00:01:07,080
observe electrical activities that

31
00:01:12,050 --> 00:01:09,119
happen above thunderstorms particularly

32
00:01:14,050 --> 00:01:12,060
the Inception frequency and altitude of

33
00:01:16,429 --> 00:01:14,060
recently discovered blue discharges

34
00:01:18,530 --> 00:01:16,439
scientists plan to estimate the energy

35
00:01:20,630 --> 00:01:18,540
of these phenomena to determine their

36
00:01:22,190 --> 00:01:20,640
effect on the atmosphere a better

37
00:01:23,810 --> 00:01:22,200
understanding of lightning and

38
00:01:25,789 --> 00:01:23,820

electrical activity in Earth's

39

00:01:27,170 --> 00:01:25,799

atmosphere can improve atmospheric

40

00:01:29,149 --> 00:01:27,180

models and provide a better

41

00:01:29,929 --> 00:01:29,159

understanding of Earth's climate and

42

00:01:32,270 --> 00:01:29,939

weather

43

00:01:34,429 --> 00:01:32,280

the upcoming arrival of the cargo dragon

44

00:01:37,550 --> 00:01:34,439

to the station will also set the stage

45

00:01:39,530 --> 00:01:37,560

for a round of June space walks on

46

00:01:42,530 --> 00:01:39,540

Friday June 9th and again on Thursday

47

00:01:44,330 --> 00:01:42,540

June 15th NASA astronaut Steve Bowen and

48

00:01:46,670 --> 00:01:44,340

Woody hoberg will install two new

49

00:01:49,969 --> 00:01:46,680

rollout solar rays to the exterior of

50

00:01:52,490 --> 00:01:49,979

the space station over time our existing

51
00:01:56,030 --> 00:01:52,500
Legacy arrays they degrade this is

52
00:01:59,510 --> 00:01:56,040
expected a normal part of aging and so

53
00:02:01,069 --> 00:01:59,520
our ability to augment that power is

54
00:02:02,990 --> 00:02:01,079
really important for us especially as we

55
00:02:05,149 --> 00:02:03,000
want to continue research and eventually

56
00:02:07,550 --> 00:02:05,159
we'll be also incorporating the Axiom

57
00:02:10,070 --> 00:02:07,560
modules as well onto ISS and so we need

58
00:02:12,830 --> 00:02:10,080
to have as much power as possible

59
00:02:14,750 --> 00:02:12,840
Rosa will produce more than 20 kilowatts

60
00:02:17,089 --> 00:02:14,760
of

61
00:02:19,010 --> 00:02:17,099
installed will end

62
00:02:20,869 --> 00:02:19,020
wellness and power production over the

63
00:02:22,610 --> 00:02:20,879

station's current arrays

64

00:02:25,190 --> 00:02:22,620

you can keep up with the activities on

65

00:02:27,710 --> 00:02:25,200

the space station anytime follow us on

66

00:02:31,130 --> 00:02:27,720

nasa.gov or on Twitter at space

67

00:02:32,150 --> 00:02:31,140

underscore station or at Nasa underscore

68

00:02:33,830 --> 00:02:32,160

Johnson

69

00:02:35,390 --> 00:02:33,840

and that's space to ground for now thank

70

00:02:44,869 --> 00:02:35,400

you so much for watching and we'll see