



Space to Ground

1
00:00:06,950 --> 00:00:05,030
houston station on space to ground

2
00:00:09,350 --> 00:00:06,960
welcome to space to ground i'm nilla for

3
00:00:11,830 --> 00:00:09,360
ramji a spacewalk cargo dragon's

4
00:00:13,669 --> 00:00:11,840
departure and science investigations it

5
00:00:15,829 --> 00:00:13,679
continues to be a busy week aboard the

6
00:00:17,830 --> 00:00:15,839
space station

7
00:00:19,750 --> 00:00:17,840
on wednesday january 19th russian

8
00:00:22,070 --> 00:00:19,760
cosmonauts anton shkaplerov and peter

9
00:00:23,830 --> 00:00:22,080
dubrov completed a spacewalk to outfit

10
00:00:26,870 --> 00:00:23,840
and configure the prechal and noka

11
00:00:29,189 --> 00:00:26,880
modules the duo installed new handrails

12
00:00:31,750 --> 00:00:29,199
rendezvous antennas a television camera

13
00:00:33,270 --> 00:00:31,760

and docking targets on preachel a soyuz

14

00:00:34,950 --> 00:00:33,280

spacecraft carrying three russian

15

00:00:37,030 --> 00:00:34,960

cosmonauts who will be part of the

16

00:00:38,950 --> 00:00:37,040

expedition 67 crew is the first

17

00:00:40,549 --> 00:00:38,960

scheduled docking to pre-shill planned

18

00:00:42,470 --> 00:00:40,559

for march

19

00:00:44,470 --> 00:00:42,480

cargo dragon is set to return to earth

20

00:00:47,350 --> 00:00:44,480

carrying more than 4 900 pounds of

21

00:00:49,430 --> 00:00:47,360

supplies and scientific samples

22

00:00:51,350 --> 00:00:49,440

the spacex cargo dragon has been packed

23

00:00:53,430 --> 00:00:51,360

with samples from experiments conducted

24

00:00:55,430 --> 00:00:53,440

aboard the orbiting laboratory and is

25

00:00:57,110 --> 00:00:55,440

ready to depart the space station you

26

00:00:59,110 --> 00:00:57,120

can catch all the action on nasa

27

00:01:00,470 --> 00:00:59,120

television the agency's website and the

28

00:01:02,549 --> 00:01:00,480

nasa app

29

00:01:04,229 --> 00:01:02,559

after re-entering the earth's atmosphere

30

00:01:06,630 --> 00:01:04,239

the spacecraft is scheduled to splash

31

00:01:08,230 --> 00:01:06,640

down off the coast of florida

32

00:01:10,630 --> 00:01:08,240

one of the payloads returning aboard

33

00:01:11,590 --> 00:01:10,640

cargo dragon is the in space for physics

34

00:01:13,670 --> 00:01:11,600

study

35

00:01:15,830 --> 00:01:13,680

results from in space 4 could share

36

00:01:18,070 --> 00:01:15,840

insight into harnessing neoparticles to

37

00:01:20,149 --> 00:01:18,080

fabricate and manufacture new materials

38

00:01:21,910 --> 00:01:20,159

including medical diagnostics and

39

00:01:23,749 --> 00:01:21,920

thermal shields for earth and space

40

00:01:25,830 --> 00:01:23,759

applications

41

00:01:28,469 --> 00:01:25,840

the combustion experiment acme flame

42

00:01:30,630 --> 00:01:28,479

design had some progress this week

43

00:01:32,789 --> 00:01:30,640

the advanced combustion via microgravity

44

00:01:34,950 --> 00:01:32,799

experiments or acme is a suite of six

45

00:01:36,630 --> 00:01:34,960

combustion investigations aimed at

46

00:01:38,789 --> 00:01:36,640

reducing pollutant emissions in

47

00:01:40,390 --> 00:01:38,799

practical terrestrial combustion and

48

00:01:41,590 --> 00:01:40,400

strengthening fire prevention in

49

00:01:43,670 --> 00:01:41,600

spacecraft

50

00:01:45,270 --> 00:01:43,680

one of the experiments flame design aims

51
00:01:47,030 --> 00:01:45,280
to improve our understanding of soot

52
00:01:48,950 --> 00:01:47,040
inception and control to enable

53
00:01:51,109 --> 00:01:48,960
optimization of oxygen and rich

54
00:01:53,510 --> 00:01:51,119
combustion and design of non-premixed

55
00:01:55,030 --> 00:01:53,520
flames that are both robust and soot

56
00:01:56,550 --> 00:01:55,040
free

57
00:01:58,310 --> 00:01:56,560
that's spacetogram for this week thanks

58
00:02:00,709 --> 00:01:58,320
so much for watching don't forget to

59
00:02:02,389 --> 00:02:00,719
follow at iss underscore research on

60
00:02:03,990 --> 00:02:02,399
twitter to keep track of all of the

61
00:02:07,470 --> 00:02:04,000
science aboard the space station we'll

62
00:02:07,470 --> 00:02:07,480
see you next week

63
00:02:07,480 --> 00:02:17,830

[Music]

64

00:02:26,630 --> 00:02:20,470

subscribe for more space