



Space to Ground

1
00:00:06,550 --> 00:00:02,790
foreign

2
00:00:09,230 --> 00:00:06,560
[Music]

3
00:00:11,990 --> 00:00:09,240
ji after nearly a month and a half in

4
00:00:13,910 --> 00:00:12,000
orbit the 26 SpaceX resupply mission is

5
00:00:15,890 --> 00:00:13,920
back on Earth loaded with several tons

6
00:00:17,750 --> 00:00:15,900
of scientific cargo

7
00:00:19,490 --> 00:00:17,760
following a set of commands from ground

8
00:00:21,769 --> 00:00:19,500
flight controllers the cargo Dragon

9
00:00:23,269 --> 00:00:21,779
spacecraft undocked from the Zenit Port

10
00:00:26,090 --> 00:00:23,279
of the International Space Station's

11
00:00:28,070 --> 00:00:26,100
Harmony module at 505 PM Central Time on

12
00:00:30,349 --> 00:00:28,080
January 9th the resupply mission

13
00:00:32,810 --> 00:00:30,359

launched from Florida on November 26th

14

00:00:34,729 --> 00:00:32,820
to deliver nearly 4 400 pounds of

15

00:00:36,889 --> 00:00:34,739
Science and supplies including two new

16

00:00:39,049 --> 00:00:36,899
irosis solar arrays that were installed

17

00:00:41,810 --> 00:00:39,059
by spacewalking astronauts in December

18

00:00:43,430 --> 00:00:41,820
two days later the spacecraft re-entered

19

00:00:45,170 --> 00:00:43,440
the Earth's atmosphere making a

20

00:00:47,750 --> 00:00:45,180
parachute assisted Splashdown in the

21

00:00:50,029 --> 00:00:47,760
pre-dawn hours off the coast of Florida

22

00:00:51,830 --> 00:00:50,039
with crew Dragon slash down we welcome

23

00:00:53,630 --> 00:00:51,840
home several science investigations

24

00:00:55,430 --> 00:00:53,640
where researchers can continue their

25

00:00:57,410 --> 00:00:55,440
work on Earth one of these

26

00:01:00,290 --> 00:00:57,420

investigations is designed to protect

27

00:01:02,090 --> 00:01:00,300

astronauts from high doses of radiation

28

00:01:04,310 --> 00:01:02,100

crew members were a special device

29

00:01:06,710 --> 00:01:04,320

called Astra rad best while performing

30

00:01:09,050 --> 00:01:06,720

daily tasks astronauts provided feedback

31

00:01:11,210 --> 00:01:09,060

on the vest feel fit and range of motion

32

00:01:13,070 --> 00:01:11,220

this feedback will allow the Garment

33

00:01:14,750 --> 00:01:13,080

developers to improve its design which

34

00:01:16,670 --> 00:01:14,760

aims to provide personal radiation

35

00:01:19,250 --> 00:01:16,680

protection for astronauts on Artemis

36

00:01:21,410 --> 00:01:19,260

missions and on Future travel to Mars

37

00:01:23,210 --> 00:01:21,420

another returning investigation known as

38

00:01:25,550 --> 00:01:23,220

dynamos Compares two soil model

39

00:01:26,929 --> 00:01:25,560

microbial consortia one aboard the space

40

00:01:29,090 --> 00:01:26,939

station and another here on Earth

41

00:01:30,890 --> 00:01:29,100

results from this investigation could

42

00:01:32,810 --> 00:01:30,900

help researchers develop integrative

43

00:01:34,730 --> 00:01:32,820

networks to predict the influence of

44

00:01:37,190 --> 00:01:34,740

selection pressure imposed by the space

45

00:01:38,510 --> 00:01:37,200

station on microbial Community Dynamics

46

00:01:40,490 --> 00:01:38,520

and functions

47

00:01:42,469 --> 00:01:40,500

also returning on dragging are samples

48

00:01:43,910 --> 00:01:42,479

of extra virgin olive oil this

49

00:01:45,530 --> 00:01:43,920

investigation will analyze the

50

00:01:47,330 --> 00:01:45,540

properties of the flown olive oil

51
00:01:49,550 --> 00:01:47,340
samples with controls that were kept on

52
00:01:51,469 --> 00:01:49,560
the ground olive oil is rich in

53
00:01:53,330 --> 00:01:51,479
antioxidants and anti-inflammatory

54
00:01:55,609 --> 00:01:53,340
compounds and provided that the oil

55
00:01:56,990 --> 00:01:55,619
maintains its properties in space it

56
00:01:59,929 --> 00:01:57,000
could be beneficial to the health of

57
00:02:02,510 --> 00:01:59,939
astronauts on long-term space missions

58
00:02:04,850 --> 00:02:02,520
last month an external leak was detected

59
00:02:06,170 --> 00:02:04,860
from the Ross Cosmos soyuz ms-22

60
00:02:08,749 --> 00:02:06,180
spacecraft docked the International

61
00:02:10,550 --> 00:02:08,759
Space Station that soyuz carried three

62
00:02:13,010 --> 00:02:10,560
crew members including NASA astronaut

63
00:02:15,470 --> 00:02:13,020

Frank Rubio to space on September 21st

64
00:02:16,910 --> 00:02:15,480
from the bikner cosmodrome Ross Cosmos

65
00:02:18,830 --> 00:02:16,920
Engineers have determined that the

66
00:02:21,530 --> 00:02:18,840
spacecraft is not viable for a nominal

67
00:02:23,630 --> 00:02:21,540
crew return an uncrewed soyuz spacecraft

68
00:02:26,510 --> 00:02:23,640
will replace the current vehicle that

69
00:02:28,670 --> 00:02:26,520
spacecraft soyuz ms-23 will launch to

70
00:02:30,290 --> 00:02:28,680
the space station on February 20th

71
00:02:31,910 --> 00:02:30,300
and that's space program for this week

72
00:02:33,170 --> 00:02:31,920
for all of the latest on the signs

73
00:02:34,970 --> 00:02:33,180
taking place aboard the orbiting

74
00:02:36,830 --> 00:02:34,980
laboratory don't forget to follow us on

75
00:02:38,570 --> 00:02:36,840
Twitter at ISS underscore research

76

00:02:40,550 --> 00:02:38,580

thanks so much for watching we'll see

77

00:02:43,500 --> 00:02:40,560

you next week