SPACE TO GROUND

1
00:00:04,870 --> 00:00:03,030
houston station on space to ground

2
00:00:06,470 --> 00:00:04,880
welcome to space to ground your weekly

3
00:00:08,150 --> 00:00:06,480
look at what's happening on board the

4
00:00:10,629 --> 00:00:08,160
international space station i'm dan

5
00:00:13,030 --> 00:00:10,639
hewitt the station's traffic plan got a

6
00:00:15,190 --> 00:00:13,040
shakeup this week russian experts are

7
00:00:17,910 --> 00:00:15,200
still investigating what caused the loss

8
00:00:20,150 --> 00:00:17,920
of progress 59 and made the decision to

9
00:00:22,390 --> 00:00:20,160
delay the next crew rotation

10
00:00:24,550 --> 00:00:22,400
terry vert samantha chris ferretti and

11
00:00:26,870 --> 00:00:24,560
anton shkaplerov are getting an extra

12
00:00:29,750 --> 00:00:26,880
month in space now scheduled to return

13
00:00:31,509 --> 00:00:29,760

home in early june this delay minimizes

14
00:00:33,830 --> 00:00:31,519
the amount of time only three crew

15
00:00:36,389 --> 00:00:33,840
members are on board to maximize science

16
00:00:39,110 --> 00:00:36,399
and research the next crew chell lingard

17
00:00:41,350 --> 00:00:39,120
camilla yui and oleg kononenko are now

18
00:00:44,790 --> 00:00:41,360
set to launch in late july for the

19
00:00:46,709 --> 00:00:44,800
latest go to nasa.gov launch schedule

20
00:00:48,950 --> 00:00:46,719
the station is home to a range of

21
00:00:51,830 --> 00:00:48,960
physical science experiments from fluids

22
00:00:54,150 --> 00:00:51,840
to flames terry verts worked this week

23
00:00:55,830 --> 00:00:54,160
inside the combustion integrated rack to

24
00:00:58,470 --> 00:00:55,840
prepare for the upcoming flame

25
00:01:00,069 --> 00:00:58,480
extinguishment experiment or flex 2

26
00:01:01,990 --> 00:01:00,079
which studies how different fuel

27
00:01:04,469 --> 00:01:02,000
mixtures burn in space without the

28
00:01:06,149 --> 00:01:04,479
influence of gravity this could lead to

29
00:01:08,870 --> 00:01:06,159
better fire fighting safety on

30
00:01:11,270 --> 00:01:08,880
spacecraft and also to improve fuels for

31
00:01:13,270 --> 00:01:11,280
vehicles and aircraft here on earth by

32
00:01:15,670 --> 00:01:13,280
creating more environmentally friendly

33
00:01:17,830 --> 00:01:15,680
mixtures of chemicals that burn cleaner

34
00:01:19,749 --> 00:01:17,840
and produce less soot

35
00:01:22,789 --> 00:01:19,759
this week richard wants to know if the

36
00:01:25,429 --> 00:01:22,799
iss ever requires repair from miniature

37
00:01:27,109 --> 00:01:25,439
meteoroid impacts while no major system

38
00:01:29,590 --> 00:01:27,119

on board the station has ever been hit

39
00:01:31,830 --> 00:01:29,600
and required repair some smaller impacts

40
00:01:33,990 --> 00:01:31,840
do require crew attention

41
00:01:36,310 --> 00:01:34,000
a two millimeter size particle is

42
00:01:38,710 --> 00:01:36,320
expected to contact station every few

43
00:01:40,149 --> 00:01:38,720
months which can create sharp edges that

44
00:01:42,550 --> 00:01:40,159
could damage an astronaut's gloves

45
00:01:44,230 --> 00:01:42,560
during a space walk the astronauts do

46
00:01:46,710 --> 00:01:44,240
have special clamps and covers to

47
00:01:48,950 --> 00:01:46,720
install on damaged sections or they can

48
00:01:50,710 --> 00:01:48,960
avoid the areas altogether

49
00:01:52,310 --> 00:01:50,720
make sure to keep sending your questions