
SpacetoGround

1
00:00:00,490 --> 00:00:05,190
[Music]

2
00:00:09,350 --> 00:00:06,869
welcome to space to ground i'm schnick

3
00:00:11,350 --> 00:00:09,360
wolverine nasa and spacex are preparing

4
00:00:13,430 --> 00:00:11,360
for the fifth crew rotation mission of

5
00:00:15,110 --> 00:00:13,440
the company's human space transportation

6
00:00:18,230 --> 00:00:15,120
system to the international space

7
00:00:20,070 --> 00:00:18,240
station nasa's spacex crew 5 mission is

8
00:00:22,310 --> 00:00:20,080
targeted to launch no earlier than

9
00:00:24,310 --> 00:00:22,320
september 29th to the microgravity

10
00:00:26,790 --> 00:00:24,320
laboratory for a science expedition

11
00:00:29,349 --> 00:00:26,800
mission with nasa astronauts nicole mann

12
00:00:31,669 --> 00:00:29,359
and josh casada jaxa astronaut koichi

13
00:00:34,069 --> 00:00:31,679

wakata and rus cosmo's cosmonaut anna

14
00:00:37,430 --> 00:00:34,079
kikena you can follow the flight on nasa

15
00:00:39,350 --> 00:00:37,440
tv nasa.gov and the nasa app

16
00:00:42,310 --> 00:00:39,360
science doesn't just happen inside the

17
00:00:44,549 --> 00:00:42,320
space station but on the outside as well

18
00:00:46,470 --> 00:00:44,559
one example is the missy ff platform

19
00:00:48,310 --> 00:00:46,480
that allows researchers the opportunity

20
00:00:50,549 --> 00:00:48,320
to expose materials to the harsh

21
00:00:52,630 --> 00:00:50,559
environment of space this week nasa

22
00:00:55,029 --> 00:00:52,640
astronaut chell lingard installed missy

23
00:00:57,430 --> 00:00:55,039
16 science carriers onto the japanese

24
00:00:58,950 --> 00:00:57,440
experiment modules airlock slide table

25
00:01:01,750 --> 00:00:58,960
from which they will be robotically

26
00:01:03,510 --> 00:01:01,760
grappled and installed on missy ff

27
00:01:05,590 --> 00:01:03,520
these containers hold a variety of

28
00:01:07,830 --> 00:01:05,600
samples from an electric textile that

29
00:01:09,670 --> 00:01:07,840
tests fabric sensors to solar cell

30
00:01:11,350 --> 00:01:09,680
material to see how radiation

31
00:01:13,190 --> 00:01:11,360
temperature and vacuum impact

32
00:01:15,030 --> 00:01:13,200
performance what we learned could

33
00:01:17,030 --> 00:01:15,040
support development of better materials

34
00:01:18,789 --> 00:01:17,040
for use on future space exploration

35
00:01:20,310 --> 00:01:18,799
missions

36
00:01:22,310 --> 00:01:20,320
and while much of space station's

37
00:01:24,469 --> 00:01:22,320
research is helping propel us further

38
00:01:26,550 --> 00:01:24,479

into deep space it also has many

39
00:01:28,390 --> 00:01:26,560
benefits for those of us back on our

40
00:01:30,630 --> 00:01:28,400
home planet

41
00:01:32,550 --> 00:01:30,640
the 2022 benefits for humanity

42
00:01:34,550 --> 00:01:32,560
publication was released this week

43
00:01:36,870 --> 00:01:34,560
highlighting ways in which space station

44
00:01:39,109 --> 00:01:36,880
research has impacted life on earth

45
00:01:40,710 --> 00:01:39,119
learn how a tool used to study neutron

46
00:01:42,710 --> 00:01:40,720
stars from the space station has

47
00:01:45,030 --> 00:01:42,720
contributed technology improvements for

48
00:01:47,109 --> 00:01:45,040
cat scans here on earth and what company

49
00:01:49,109 --> 00:01:47,119
has recently secured three patents for

50
00:01:50,789 --> 00:01:49,119
household products based on science they

51
00:01:52,550 --> 00:01:50,799
conducted in space

52
00:01:54,389 --> 00:01:52,560
check out these stories and more by

53
00:01:57,109 --> 00:01:54,399
visiting nasa.gov

54
00:01:59,270 --> 00:01:57,119
station benefits or follow at iss

55
00:02:00,469 --> 00:01:59,280
underscore research on twitter for more

56
00:02:02,550 --> 00:02:00,479
updates

57
00:02:04,550 --> 00:02:02,560
that's all for today on space to ground

58
00:02:05,910 --> 00:02:04,560
thanks so much for watching you can

59
00:02:08,309 --> 00:02:05,920
watch the international space station

60
00:02:10,469 --> 00:02:08,319
pass overhead in the night sky find out

61
00:02:13,350 --> 00:02:10,479
when it will fly over your area by going

62
00:02:17,570 --> 00:02:13,360
to spottystation.nasa.gov