



Space to Ground

1
00:00:06,789 --> 00:00:04,950
houston station on space to ground

2
00:00:09,110 --> 00:00:06,799
welcome to space to ground i'm shanique

3
00:00:11,190 --> 00:00:09,120
wolverine this week nasa updated

4
00:00:13,589 --> 00:00:11,200
astronaut assignments demonstrated new

5
00:00:15,270 --> 00:00:13,599
science and technology and got a look at

6
00:00:17,510 --> 00:00:15,280
a heat wave

7
00:00:19,830 --> 00:00:17,520
on thursday june 16th nasa announced

8
00:00:21,670 --> 00:00:19,840
that two nasa astronaut test pilots will

9
00:00:23,509 --> 00:00:21,680
fly aboard the agency's boeing crew

10
00:00:25,349 --> 00:00:23,519
flight test mission to the international

11
00:00:27,990 --> 00:00:25,359
space station where they will live and

12
00:00:30,470 --> 00:00:28,000
work off the earth for about two weeks

13
00:00:32,310 --> 00:00:30,480

cft commander barry butch wilmore whom

14

00:00:34,870 --> 00:00:32,320

nasa assigned to the prime crew in

15

00:00:37,190 --> 00:00:34,880

october 2020 will join nasa astronaut

16

00:00:39,190 --> 00:00:37,200

sunni williams who will serve as pilot

17

00:00:41,670 --> 00:00:39,200

williams previously served as the backup

18

00:00:43,990 --> 00:00:41,680

test pilot for cft while assigned as

19

00:00:45,830 --> 00:00:44,000

commander of nasa's boeing starliner 1

20

00:00:48,470 --> 00:00:45,840

mission starliner's first post

21

00:00:50,150 --> 00:00:48,480

certification mission as cft pilot

22

00:00:52,069 --> 00:00:50,160

williams takes the place of nasa

23

00:00:55,110 --> 00:00:52,079

astronaut nicole mann originally

24

00:00:57,990 --> 00:00:55,120

assigned to the mission in 2018 nasa

25

00:01:00,869 --> 00:00:58,000

reassigned man to the hc spacex crew 5

26

00:01:02,709 --> 00:01:00,879

mission in 2021

27

00:01:05,350 --> 00:01:02,719

the hot days of summer are officially

28

00:01:08,310 --> 00:01:05,360

here in the northern hemisphere and nasa

29

00:01:10,469 --> 00:01:08,320

is monitoring the heat from above

30

00:01:12,710 --> 00:01:10,479

nasa's ecosystem spaceborne thermal

31

00:01:14,789 --> 00:01:12,720

radiometer experiment on space station

32

00:01:17,109 --> 00:01:14,799

or ecostress recorded some

33

00:01:18,710 --> 00:01:17,119

record-breaking temperatures this month

34

00:01:20,310 --> 00:01:18,720

built and managed by nasa's jet

35

00:01:22,870 --> 00:01:20,320

propulsion laboratory in southern

36

00:01:24,390 --> 00:01:22,880

california the ecostress measures the

37

00:01:25,910 --> 00:01:24,400

temperature of the ground which is

38

00:01:28,550 --> 00:01:25,920

hotter than the air temperature during

39

00:01:30,870 --> 00:01:28,560

the daytime its primary mission is to

40

00:01:32,870 --> 00:01:30,880

identify plant thresholds for water use

41

00:01:34,710 --> 00:01:32,880

and water stress giving insight into

42

00:01:37,590 --> 00:01:34,720

their ability to adapt to a warming

43

00:01:39,270 --> 00:01:37,600

climate however ecostress is also useful

44

00:01:41,109 --> 00:01:39,280

for documenting other heat related

45

00:01:43,590 --> 00:01:41,119

phenomena like patterns of heat

46

00:01:45,830 --> 00:01:43,600

absorption and retention its high

47

00:01:48,630 --> 00:01:45,840

resolution images with a pixel size of

48

00:01:50,550 --> 00:01:48,640

about 70 meters by 38 meters are a

49

00:01:51,990 --> 00:01:50,560

powerful tool for understanding our

50

00:01:53,830 --> 00:01:52,000

environment

51
00:01:56,630 --> 00:01:53,840
this week we answer the question do

52
00:01:59,270 --> 00:01:56,640
astronauts have wi-fi in space

53
00:02:01,190 --> 00:01:59,280
the expedition 67 crew participated in a

54
00:02:03,310 --> 00:02:01,200
ballisto choreography session while

55
00:02:05,190 --> 00:02:03,320
wearing the smart text 2 shirt

56
00:02:07,109 --> 00:02:05,200
ballistocardiography looks at body

57
00:02:09,669 --> 00:02:07,119
motion related to the pumping of blood

58
00:02:11,350 --> 00:02:09,679
by the heart the wireless communication

59
00:02:13,830 --> 00:02:11,360
network wireless compost ii

60
00:02:15,589 --> 00:02:13,840
investigation is to provide a flexible

61
00:02:17,670 --> 00:02:15,599
and adaptable wireless network

62
00:02:19,589 --> 00:02:17,680
infrastructure to conduct and execute

63
00:02:21,110 --> 00:02:19,599

low power low weight and wireless

64

00:02:23,350 --> 00:02:21,120

experiments on the international space

65

00:02:25,750 --> 00:02:23,360

station for this demonstration wireless

66

00:02:27,589 --> 00:02:25,760

compost 2 operates several experiments

67

00:02:29,190 --> 00:02:27,599

including an experiment to examine the

68

00:02:31,350 --> 00:02:29,200

impact of the space environment on the

69

00:02:32,869 --> 00:02:31,360

cardiovascular system

70

00:02:34,470 --> 00:02:32,879

that's space to ground for this week

71

00:02:37,470 --> 00:02:34,480

thanks for watching we'll see you next