



SPACE TO GROUND

1
00:00:08,790 --> 00:00:03,270
houston station on space to ground

2
00:00:13,509 --> 00:00:10,870
welcome to space to ground i'm dan

3
00:00:16,950 --> 00:00:13,519
hewitt three space travelers returned to

4
00:00:18,070 --> 00:00:16,960
earth over the weekend after 115 days on

5
00:00:20,950 --> 00:00:18,080
orbit

6
00:00:23,429 --> 00:00:20,960
kate rubens takuya onishi and anatoly

7
00:00:25,750 --> 00:00:23,439
ivanishin bid farewell to their fellow

8
00:00:28,790 --> 00:00:25,760
space station residents before climbing

9
00:00:31,990 --> 00:00:28,800
into the soyuz ms-01 spacecraft for the

10
00:00:34,150 --> 00:00:32,000
trip home after a successful undocking

11
00:00:36,229 --> 00:00:34,160
and deorbit burn they plunged through

12
00:00:38,389 --> 00:00:36,239
the earth's atmosphere for a parachute

13
00:00:40,470 --> 00:00:38,399

landing in kazakhstan

14

00:00:42,950 --> 00:00:40,480

after initial tests at the landing site

15

00:00:45,750 --> 00:00:42,960

and a short helicopter ride they boarded

16

00:00:48,069 --> 00:00:45,760

planes back to home base rubens and

17

00:00:50,630 --> 00:00:48,079

onishi arrived back in houston just a

18

00:00:52,790 --> 00:00:50,640

little over 24 hours after their first

19

00:00:55,270 --> 00:00:52,800

steps back on earth

20

00:00:57,750 --> 00:00:55,280

newly appointed commander of the station

21

00:01:00,470 --> 00:00:57,760

shane kimbrough was busy this week in

22

00:01:02,950 --> 00:01:00,480

the station's quest airlock kimbrough

23

00:01:05,189 --> 00:01:02,960

spent several hours performing routine

24

00:01:07,670 --> 00:01:05,199

maintenance on u.s spacesuits onboard

25

00:01:10,230 --> 00:01:07,680

the station this helps keep them in good

26

00:01:12,070 --> 00:01:10,240

working order for upcoming spacewalks

27

00:01:15,910 --> 00:01:12,080

with the next set coming up in a few

28

00:01:18,070 --> 00:01:15,920

months the japanese htv-6 cargo craft is

29

00:01:20,630 --> 00:01:18,080

scheduled to launch in december and will

30

00:01:23,109 --> 00:01:20,640

deliver a new set of lithium-ion

31

00:01:24,870 --> 00:01:23,119

batteries used to power systems on

32

00:01:27,190 --> 00:01:24,880

station when on the dark side of the

33

00:01:30,630 --> 00:01:27,200

earth they'll be installed in a series

34

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

of spacewalks by the expedition 50 crew

35

00:01:35,030 --> 00:01:32,799

this week's question comes from the old

36

00:01:37,429 --> 00:01:35,040

poet who wants to know what devices on

37

00:01:39,590 --> 00:01:37,439

board measure the radiation astronauts

38

00:01:41,670 --> 00:01:39,600

are exposed to well there's a lot of

39

00:01:43,429 --> 00:01:41,680

them as radiation is an important thing

40

00:01:45,670 --> 00:01:43,439

to keep an eye on

41

00:01:47,429 --> 00:01:45,680

there are several radiation area

42

00:01:49,670 --> 00:01:47,439

monitors scattered throughout the

43

00:01:52,310 --> 00:01:49,680

different modules of the station crew

44

00:01:54,550 --> 00:01:52,320

members also keep a small dosimeter with

45

00:01:56,550 --> 00:01:54,560

them usually in a pocket throughout

46

00:01:58,789 --> 00:01:56,560

their space flight that returns to earth

47

00:02:01,109 --> 00:01:58,799

with them and gets handed off to doctors

48

00:02:03,429 --> 00:02:01,119

right after landing there are also

49

00:02:05,910 --> 00:02:03,439

payloads like the russian matroshka r

50

00:02:08,229 --> 00:02:05,920

experiment and beam that are actively

51

00:02:10,469 --> 00:02:08,239

recording radiation exposure and

52

00:02:12,309 --> 00:02:10,479

regularly have samples and monitors

53

00:02:14,390 --> 00:02:12,319

returned to earth

54

00:02:16,550 --> 00:02:14,400

keep sending in your questions using the