



SPACE TO GROUND

1
00:00:04,950 --> 00:00:02,950
houston station on space to ground

2
00:00:06,550 --> 00:00:04,960
welcome to space to ground your weekly

3
00:00:08,549 --> 00:00:06,560
look at what's happening on board the

4
00:00:11,030 --> 00:00:08,559
international space station i'm crawford

5
00:00:13,030 --> 00:00:11,040
jones after over three thousand trips

6
00:00:15,110 --> 00:00:13,040
around the earth and an extended stay on

7
00:00:17,750 --> 00:00:15,120
orbit three space travelers are back

8
00:00:20,310 --> 00:00:17,760
home on thursday nasa astronaut terry

9
00:00:22,710 --> 00:00:20,320
verts cosmonaut anton shkaplerov and

10
00:00:24,150 --> 00:00:22,720
european space agency astronaut samantha

11
00:00:27,429 --> 00:00:24,160
chris ferretti departed the space

12
00:00:29,269 --> 00:00:27,439
station after 199 days on board their

13
00:00:32,229 --> 00:00:29,279

soyuz spacecraft undocked from the

14

00:00:34,709 --> 00:00:32,239

station at 6 20 a.m eastern time for a

15

00:00:36,870 --> 00:00:34,719

touchdown on the step of kazakhstan just

16

00:00:38,549 --> 00:00:36,880

under three and a half hours later the

17

00:00:40,790 --> 00:00:38,559

crew members were extracted from the

18

00:00:42,950 --> 00:00:40,800

spacecraft by search and recovery teams

19

00:00:44,630 --> 00:00:42,960

and given a few moments to adjust to

20

00:00:46,470 --> 00:00:44,640

earth's gravity before leaving the

21

00:00:47,670 --> 00:00:46,480

landing site for the last leg of their

22

00:00:50,709 --> 00:00:47,680

journey home

23

00:00:52,389 --> 00:00:50,719

with her 199 days in space samantha

24

00:00:54,229 --> 00:00:52,399

christopher reddy broke the record for

25

00:00:56,869 --> 00:00:54,239

longest space flight by a woman

26
00:00:59,029 --> 00:00:56,879
previously held by nasa's sunny williams

27
00:01:00,950 --> 00:00:59,039
the departure of verts shkaplerov and

28
00:01:03,670 --> 00:01:00,960
christopher reddy kicked off iss

29
00:01:05,270 --> 00:01:03,680
expedition 44. before leaving verts

30
00:01:07,590 --> 00:01:05,280
handed over command of the orbital

31
00:01:09,670 --> 00:01:07,600
outpost to veteran cosmonaut gennady

32
00:01:11,670 --> 00:01:09,680
padalka marking the beginning of his

33
00:01:14,230 --> 00:01:11,680
fourth stint as station commander and

34
00:01:16,710 --> 00:01:14,240
iss record remaining with padalka are

35
00:01:18,950 --> 00:01:16,720
his fellow cosmonaut mikhail kornienko

36
00:01:20,789 --> 00:01:18,960
and nasa astronaut scott kelly who are

37
00:01:23,190 --> 00:01:20,799
coming up on the three-month mark of

38
00:01:25,670 --> 00:01:23,200

their one-year mission the trio will be

39

00:01:28,230 --> 00:01:25,680

joined by cosmonaut oleg kononenko

40

00:01:30,630 --> 00:01:28,240

japanese astronaut kamiya yui and nasa

41

00:01:33,990 --> 00:01:30,640

astronaut cho lindgren in late july to

42

00:01:35,590 --> 00:01:34,000

complete the six-man expedition 44 crew

43

00:01:37,510 --> 00:01:35,600

this week's twitter question comes from

44

00:01:40,630 --> 00:01:37,520

alexa who wants to know what's the

45

00:01:43,590 --> 00:01:40,640

largest scientific device on the iss's

46

00:01:45,510 --> 00:01:43,600

well alexa that would be the ams or the

47

00:01:47,109 --> 00:01:45,520

alpha magnetic spectrometer the

48

00:01:48,950 --> 00:01:47,119

state-of-the-art particle physics

49

00:01:51,670 --> 00:01:48,960

detector was delivered to the station by

50

00:01:54,310 --> 00:01:51,680

space shuttle endeavour in 2011 and has

51

00:01:56,630 --> 00:01:54,320

measured over 65 billion cosmic rays

52

00:01:58,630 --> 00:01:56,640

since on its quest to help us discover

53

00:02:00,069 --> 00:01:58,640

the origins of the universe

54

00:02:02,310 --> 00:02:00,079

keep sending us your questions and