



# SPACE TO GROUND

1  
00:00:04,480 --> 00:00:02,340  
Houston station on space to ground

2  
00:00:05,860 --> 00:00:04,490  
welcome to space to ground your weekly

3  
00:00:07,720 --> 00:00:05,870  
look at what's happening on board the

4  
00:00:10,869 --> 00:00:07,730  
International Space Station i'm nicole

5  
00:00:12,940 --> 00:00:10,879  
Cloutier lemasters right now seven tons

6  
00:00:14,770 --> 00:00:12,950  
of food fuel and supplies are bound for

7  
00:00:16,720 --> 00:00:14,780  
the space station the european space

8  
00:00:18,429 --> 00:00:16,730  
agency's fifth and final automated

9  
00:00:21,429 --> 00:00:18,439  
Transfer Vehicle launched Tuesday night

10  
00:00:23,109 --> 00:00:21,439  
from French Guiana ATV by named for the

11  
00:00:23,679 --> 00:00:23,119  
father of the Big Bang Theory Jorge

12  
00:00:25,900 --> 00:00:23,689  
lameta

13  
00:00:27,790 --> 00:00:25,910

is currently on a 14-day Trek to the

14

00:00:30,579 --> 00:00:27,800

station was docking scheduled for August

15

00:00:32,319 --> 00:00:30,589

12th NASA astronaut Steve Swanson and

16

00:00:34,540 --> 00:00:32,329

reid wiseman were back at work with more

17

00:00:36,520 --> 00:00:34,550

spacesuit maintenance the duo performed

18

00:00:38,350 --> 00:00:36,530

water leak inspections and a scrubbing

19

00:00:40,299 --> 00:00:38,360

of the soup cooling loops they also

20

00:00:42,069 --> 00:00:40,309

measured conductivity of water samples

21

00:00:44,799 --> 00:00:42,079

taken from the loops to ensure they meet

22

00:00:46,569 --> 00:00:44,809

operational specifications Swanson then

23

00:00:48,849 --> 00:00:46,579

collected tools in preparation for the

24

00:00:50,319 --> 00:00:48,859

upcoming Russian and u.s. spacewalks to

25

00:00:52,779 --> 00:00:50,329

u.s. spacewalks are planned for the end

26  
00:00:55,569 --> 00:00:52,789  
of August for relocation replacement and

27  
00:00:57,099 --> 00:00:55,579  
reconfiguration tests last week the crew

28  
00:00:58,720 --> 00:00:57,109  
set a record for how much time they

29  
00:01:01,419 --> 00:00:58,730  
dedicated to science investigations

30  
00:01:03,849 --> 00:01:01,429  
typically ISS crews are scheduled for

31  
00:01:05,259 --> 00:01:03,859  
around 40 hours of research per week but

32  
00:01:07,330 --> 00:01:05,269  
they doubled that last week when the

33  
00:01:09,940 --> 00:01:07,340  
crew spent more than 83 hours on various

34  
00:01:12,160 --> 00:01:09,950  
experiments from skin B which studies

35  
00:01:14,230 --> 00:01:12,170  
the aging of skin to the for shoes

36  
00:01:16,330 --> 00:01:14,240  
experiment which helps optimize exercise

37  
00:01:18,520 --> 00:01:16,340  
sessions in microgravity to learn more

38  
00:01:21,460 --> 00:01:18,530

about how ISS research benefits life on

39

00:01:24,130 --> 00:01:21,470

Earth visit [nasa.gov slash station](https://www.nasa.gov/station)

40

00:01:26,200 --> 00:01:24,140

benefits and we have a great question

41

00:01:28,080 --> 00:01:26,210

from a YouTube viewer this week how long

42

00:01:30,310 --> 00:01:28,090

can an astronaut be outside the station

43

00:01:32,050 --> 00:01:30,320

typically an astronaut can remain in a

44

00:01:34,420 --> 00:01:32,060

u.s. spacesuit outside the station for

45

00:01:36,039 --> 00:01:34,430

about seven hours but if required a

46

00:01:38,109 --> 00:01:36,049

spacewalking astronaut could remain

47

00:01:40,630 --> 00:01:38,119

outside much longer if a task or

48

00:01:43,240 --> 00:01:40,640

contingency required them to the longest

49

00:01:45,700 --> 00:01:43,250

us a VA was 8 hours and 56 minutes

50

00:01:48,910 --> 00:01:45,710

performed outside the ISS by Susan Helms

51  
00:01:51,219 --> 00:01:48,920  
and James Voss on March 11th 2001 during

52  
00:01:52,600 --> 00:01:51,229  
a space shuttle assembly mission make

53  
00:01:53,319 --> 00:01:52,610  
sure to keep sending your questions and