



MONDAY, AUGUST 20 ON NASA TV



## Russian EVA #31 Begins

9:40am CT / 10:40am ET

1  
00:00:01,830 --> 00:00:03,870  
Good morning and welcome  
to mission control Houston

2  
00:00:03,870 --> 00:00:05,950  
and the International  
Space Station update.

3  
00:00:05,950 --> 00:00:09,840  
We are here in the International  
Space Station flight control

4  
00:00:09,840 --> 00:00:12,150  
room with the International  
Space Station flight control

5  
00:00:12,150 --> 00:00:14,990  
team at the mission  
control center in Houston,

6  
00:00:14,990 --> 00:00:17,750  
and leading the team today  
is flight director Thomas

7  
00:00:17,750 --> 00:00:19,450  
Gonzales Torres.

8  
00:00:19,450 --> 00:00:21,360  
Sitting next to him  
in the capcom seat,

9  
00:00:21,360 --> 00:00:24,600  
astronaut Sandy Magnus.

10  
00:00:24,600 --> 00:00:28,100  
Onboard the International Space  
Station, are the six astronauts

11  
00:00:28,100 --> 00:00:30,170

that makeup the Expedition  
32 crew.

12

00:00:30,170 --> 00:00:31,710

They are Commander  
Gennady Padalka

13

00:00:31,710 --> 00:00:35,760

and U.S. Flight Engineers  
Joe Acaba and Suni Williams,

14

00:00:35,760 --> 00:00:38,160

Japanese Flight Engineer  
Aki Hoshide

15

00:00:38,160 --> 00:00:40,530

and Russian Flight  
Engineers Yuri Malenchenko

16

00:00:40,530 --> 00:00:41,850

and Sergei Revin.

17

00:00:41,850 --> 00:00:44,860

This crew has been together  
for almost a full month now

18

00:00:44,860 --> 00:00:46,450

since Williams, Hoshide

19

00:00:46,450 --> 00:00:51,600

and Malenchenko arrived aboard  
their Soyuz 31S on July 16.

20

00:00:51,600 --> 00:00:53,760

They have been in  
space for 31 days,

21

00:00:53,760 --> 00:00:56,120

and at the space station for 29.

22

00:00:56,120 --> 00:00:58,740

They are planning to  
stay until November.

23

00:00:58,740 --> 00:01:02,170

Acaba, Padalka and Revin on the  
other hand launched on May 14

24

00:01:02,170 --> 00:01:05,840

and have been in space for 92  
days, at space station for 90.

25

00:01:05,840 --> 00:01:07,860

They will be heading  
back to Earth

26

00:01:07,860 --> 00:01:11,100

on their own Soyuz  
vehicle next month.

27

00:01:11,100 --> 00:01:13,860

The crew is now more than  
halfway through their day

28

00:01:13,860 --> 00:01:15,550

which started at 1 a.m. CT.

29

00:01:15,550 --> 00:01:19,410

They are currently flying 250  
miles above the Pacific Ocean,

30

00:01:19,410 --> 00:01:20,510

on a course that is  
going to take them

31

00:01:20,510 --> 00:01:24,820

over only the very southernmost  
tip of South America.

32

00:01:24,820 --> 00:01:27,120

Activity in both the  
Russian and U.S. sides

33

00:01:27,120 --> 00:01:30,860

of the space station today  
are focused on preparations.

34

00:01:30,860 --> 00:01:32,330

Those two spacewalks  
are scheduled

35

00:01:32,330 --> 00:01:34,540

to take place before  
the end of the month.

36

00:01:34,540 --> 00:01:38,050

The first is a Russian  
spacewalk planned for Monday.

37

00:01:38,050 --> 00:01:39,210

Commander Gennady Padalka

38

00:01:39,210 --> 00:01:41,810

and Flight Engineer Yuri  
Malenchenko will be going

39

00:01:41,810 --> 00:01:44,220

out in part to get station  
ready for the arrival

40

00:01:44,220 --> 00:01:48,350

of the Russian multipurpose  
laboratory in 2013.

41

00:01:48,350 --> 00:01:52,430

They are preparing their  
spacesuits for that venture.

42

00:01:52,430 --> 00:01:55,710

And in the Quest airlock on the  
U.S. side of the space station,

43

00:01:55,710 --> 00:01:58,400

Flight Engineers Suni

Williams and Joe Acaba have been

44

00:01:58,400 --> 00:02:01,700

getting their own extravehicular  
mobility unit spacewalk

45

00:02:01,700 --> 00:02:06,130

spacesuits ready for their  
spacewalk on August 30.

46

00:02:06,130 --> 00:02:09,960

They will be replacing a main  
bus switching unit on the 30th

47

00:02:09,960 --> 00:02:11,720

and today they're getting  
ready for that work

48

00:02:11,720 --> 00:02:13,750

by recharging the  
spacesuits batteries

49

00:02:13,750 --> 00:02:16,250

and refilling the water tanks.

50

00:02:17,310 --> 00:02:20,830

Inside the Japanese Kibo  
laboratory Flight Engineer Aki

51

00:02:20,830 --> 00:02:22,400

Hoshida has been  
putting together one

52

00:02:22,400 --> 00:02:25,920

of the deliveries made by the

visiting H2 transfer vehicle

53

00:02:25,920 --> 00:02:29,150  
which launched from  
Japan on July 27.

54

00:02:29,150 --> 00:02:31,870  
It's called the aquatic habitat,  
and as the name implies,

55

00:02:31,870 --> 00:02:33,120  
will eventually provide a home

56

00:02:33,120 --> 00:02:35,690  
for freshwater fish  
on the space station.

57

00:02:35,690 --> 00:02:39,700  
And of course, no day in  
space would be complete

58

00:02:39,700 --> 00:02:41,190  
without a few science  
experiments

59

00:02:41,190 --> 00:02:42,730  
on the Russian side  
of the space station.

60

00:02:42,730 --> 00:02:45,460  
Flight Engineer Sergei Revin  
is studying the process

61

00:02:45,460 --> 00:02:46,980  
of full phase separation

62

00:02:46,980 --> 00:02:49,190  
of the gas liquid  
fine dispersion system

63

00:02:49,190 --> 00:02:51,740

in microgravity, as  
well as the dynamics

64

00:02:51,740 --> 00:02:54,810

of crew member interactions.

65

00:02:54,810 --> 00:02:57,000

Hoshide, Williams and Acaba,

66

00:02:57,000 --> 00:02:59,760

meanwhile are performing  
ultrasound examinations

67

00:02:59,760 --> 00:03:02,520

of their eyes as part of the  
continuing study of how life

68

00:03:02,520 --> 00:03:05,470

in space affects  
astronauts vision.

69

00:03:05,470 --> 00:03:08,090

That's what's been  
going on in space today