



1  
00:00:01,336 --> 00:00:04,446  
Good day and welcome to  
Mission Control Houston.

2  
00:00:04,536 --> 00:00:07,876  
Flight controllers here, led  
by Flight Director Emily Nelson

3  
00:00:08,486 --> 00:00:10,306  
with Robert Hanley  
talking to the crew

4  
00:00:10,306 --> 00:00:12,596  
as the Spacecraft  
Communicator, are busy watching

5  
00:00:12,596 --> 00:00:15,196  
over the systems aboard  
the orbiting outpost

6  
00:00:15,196 --> 00:00:18,806  
as the Expedition 31  
crew continues to cruise

7  
00:00:18,806 --> 00:00:22,976  
around the globe right now at  
an altitude of 250 statute miles

8  
00:00:22,976 --> 00:00:25,846  
over the Pacific Ocean off the  
western coast of South America

9  
00:00:25,846 --> 00:00:27,196  
on a north-easterly track.

10  
00:00:27,896 --> 00:00:31,476  
Commander Oleg Kononenko and  
his Russian colleagues Gennady

11

00:00:31,476 --> 00:00:35,496  
Padalka and Sergei Revin and  
the NASA astronauts Joe Acaba

12  
00:00:35,726 --> 00:00:40,356  
and Don Pettit and European  
Space Agency astronaut Andre

13  
00:00:40,356 --> 00:00:42,516  
Kuipers all continuing midway

14  
00:00:42,516 --> 00:00:45,526  
through their workday having  
just completed their lunch

15  
00:00:45,526 --> 00:00:51,986  
and having a conversation with  
students in Philadelphia as part

16  
00:00:51,986 --> 00:00:54,596  
of the Destination  
Imagination activities.

17  
00:00:54,886 --> 00:00:56,876  
See life is good on  
the space station.

18  
00:00:56,876 --> 00:01:00,506  
We don't have to do laundry and  
we don't have to take showers.

19  
00:01:00,506 --> 00:01:03,676  
So no we don't take showers up  
here, because like you said,

20  
00:01:03,676 --> 00:01:06,426  
the water would just float away  
and it would be a big mess.

21  
00:01:06,796 --> 00:01:09,826

And like Andre mentioned  
earlier water is very precious.

22

00:01:11,206 --> 00:01:14,306

Today the crew is  
working with a variety

23

00:01:14,306 --> 00:01:16,826

of different scientific  
experiments and getting ready

24

00:01:16,826 --> 00:01:20,216

for their return home at least  
for three of those crewmembers.

25

00:01:21,086 --> 00:01:23,636

Don Pettit today working  
with the Miscible Fluids

26

00:01:23,636 --> 00:01:28,346

in Microgravity experiment  
while he also did some power

27

00:01:28,346 --> 00:01:31,426

troubleshooting issues with  
the SPHERES, the Synchronized,

28

00:01:31,426 --> 00:01:36,536

Position, Hold, Engage  
and Rendezvous Experiment.

29

00:01:37,236 --> 00:01:39,326

Joe Acaba is replacing  
some components

30

00:01:39,326 --> 00:01:42,836

in the Multiuser Droplet  
Combustion Apparatus.

31

00:01:43,156 --> 00:01:45,966

That's part of the Combustion Integrated Rack which is used

32

00:01:45,966 --> 00:01:51,476

to study flames and fire and extinguishment in space.

33

00:01:51,896 --> 00:01:57,106

Acaba also working to do some change outs in the holding tanks

34

00:01:57,106 --> 00:01:59,366

and the Wastewater Storage Tank that is used

35

00:01:59,366 --> 00:02:03,156

by the Water Recovery System and its urine processor assembly

36

00:02:03,156 --> 00:02:06,546

which is used to recycle urine into good drinking water

37

00:02:06,546 --> 00:02:08,016

for the space station crew.

38

00:02:08,016 --> 00:02:10,516

He has also been doing some work

39

00:02:10,516 --> 00:02:12,886

on the Advanced Resistive Exercise Device.

40

00:02:12,886 --> 00:02:16,786

Yesterday was a day for greasing the rails that are used

41

00:02:16,906 --> 00:02:19,436

to have the momentum arms travel up and down

42

00:02:19,436 --> 00:02:21,786  
so that the crew can  
mimic weightlifting even

43

00:02:21,786 --> 00:02:22,916  
when there is no gravity.

44

00:02:23,926 --> 00:02:27,176  
Also a couple of medical  
experiments going on and a lot

45

00:02:27,176 --> 00:02:29,816  
of prepacking for the  
upcoming departure

46

00:02:30,286 --> 00:02:32,786  
of Kononenko, Kuipers  
and Pettit.

47

00:02:32,786 --> 00:02:37,196  
Pettit today is starting his  
second full year in space.

48

00:02:37,496 --> 00:02:41,936  
Yesterday marked 365 days all  
told for Don Pettit in orbit.

49

00:02:42,136 --> 00:02:43,676  
He's getting ready to come home

50

00:02:43,796 --> 00:02:46,736  
with Oleg Kononenko  
and Andre Kuipers.

51

00:02:46,936 --> 00:02:49,276  
The change-of-command  
ceremony for all

52

00:02:49,276 --> 00:02:51,226  
that is scheduled for Friday.

53

00:02:51,756 --> 00:02:54,496  
Oleg Kononenko will handover  
command to Gennady Padalka.

54

00:02:54,736 --> 00:02:58,216  
That's scheduled to happen  
at 6:35 p.m. on NASA TV.

55

00:02:58,216 --> 00:03:02,366  
And then Saturday night, very  
late we'll have the undocking

56

00:03:02,796 --> 00:03:07,196  
of the Soyuz TMA-03M spacecraft  
from the Rassvet module.

57

00:03:07,896 --> 00:03:08,896  
And Kononenko, Pettit

58

00:03:08,896 --> 00:03:10,776  
and Kuipers onboard  
there will undock

59

00:03:10,776 --> 00:03:15,246  
at 11:48 p.m. Central time  
and then follow that up

60

00:03:15,246 --> 00:03:17,216  
with a landing on the  
steppe of Kazakhstan

61

00:03:17,216 --> 00:03:20,176  
at 3:14 a.m. Central  
time which works