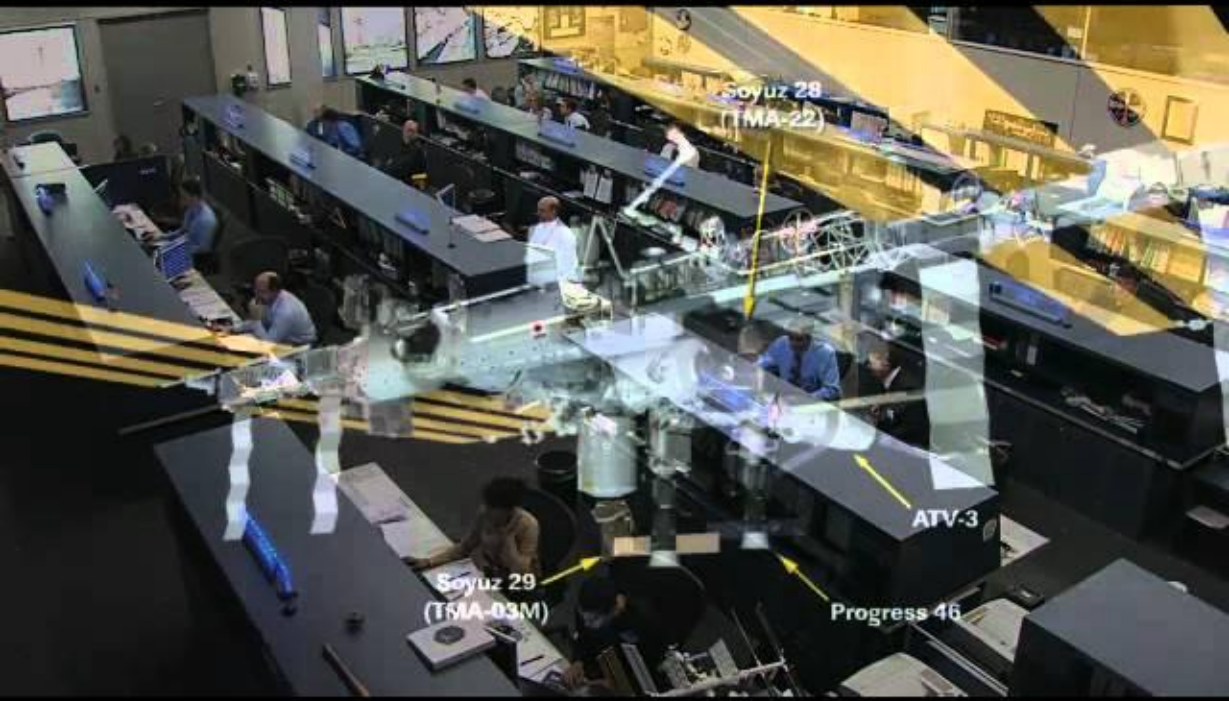
Soyuz 28
(TMA-22)
ATV-3
Soyuz 29
(TMA-03M)
Progress 46

1
00:00:02,036 --> 00:00:04,166
Good morning this is Mission Control Houston.

2
00:00:04,166 --> 00:00:09,236
Welcome and thank you for joining us for today's
edition of ISS Update this Wednesday, April 18.

3
00:00:09,776 --> 00:00:13,436
We're coming to you live from inside the
International Space Station Flight Control Room

4
00:00:13,766 --> 00:00:16,656
where the team here has been monitoring
the systems aboard the station

5
00:00:17,046 --> 00:00:20,606
and also supporting today's activities
of the Expedition 30 crew members.

6
00:00:21,456 --> 00:00:26,006
Leading the Orbit Two team here in the station
flight control room today is Flight Director

7
00:00:26,006 --> 00:00:30,736
Heather Rarick shown here in the right hand
side of your screen and also Josh Matthew

8
00:00:30,736 --> 00:00:38,176
who is serving as CAPCOM relaying
all ground messages up to the crew.

9
00:00:38,456 --> 00:00:42,476
The six crew members aboard the station
now include NASA astronaut and commander

10
00:00:42,476 --> 00:00:46,536
of the complex Dan Burbank and flight
engineers and cosmonauts Anton Shkaplerov

11

00:00:46,886 --> 00:00:52,846
and Anatoly Ivanishin as well as NASA
astronaut Don Pettit, cosmonaut Oleg Kononenko

12
00:00:52,846 --> 00:00:55,896
and European Space Agency
astronaut Andre Kuipers.

13
00:00:57,216 --> 00:01:00,096
Commander Burbank, Shkaplerov
and Ivanishin arrived

14
00:01:00,096 --> 00:01:02,486
at the orbiting complex mid-November last year.

15
00:01:03,076 --> 00:01:07,916
They will complete their 158th consecutive
day in space today with just a little more

16
00:01:07,916 --> 00:01:11,596
than a week left of their 5-1/2
month stay aboard the space station.

17
00:01:12,456 --> 00:01:17,446
Meanwhile, Pettit, Kononenko and Kuipers
launched to the space station four months ago

18
00:01:17,446 --> 00:01:22,446
on December 21 arriving at the station two
days later and making up the complete crew

19
00:01:22,446 --> 00:01:25,486
of Expedition 30 that is now
aboard the space station.

20
00:01:26,556 --> 00:01:31,066
Today marks a hundred and 20 days in
space for Pettit, Kononenko and Kuipers.

21
00:01:32,836 --> 00:01:35,776

The space station with its
crew aboard is now flying

22
00:01:36,346 --> 00:01:39,836
at an altitude of about 248 statute miles.

23
00:01:40,266 --> 00:01:43,516
The orbiting facility has just made an east,

24
00:01:43,546 --> 00:01:47,956
is making an east-southeastern track headed
toward a night pass across the deserts

25
00:01:47,956 --> 00:01:54,206
of Kazakhstan which is also the landing side of
the Soyuz TMA-22 that will be carrying Burbank,

26
00:01:54,206 --> 00:01:58,946
Shkaplerov and Ivanishin back
home next week on April 27.

27
00:02:01,066 --> 00:02:05,526
On orbit the expedition crew members continue
to work on a variety of science experiments,

28
00:02:05,876 --> 00:02:10,156
perform maintenance to their home away from home
and also prepare for several comings and goings

29
00:02:10,156 --> 00:02:13,686
of various spacecraft to and from
the International Space Station.

30
00:02:15,166 --> 00:02:19,516
Today, station Commander Dan Burbank continues
work he began earlier this morning to remove

31
00:02:19,516 --> 00:02:23,216
and replace a hydrogen sensor
of the Oxygen Generator System.

32
00:02:23,666 --> 00:02:28,236
He will then take a short break from
it to conduct some battery maintenance

33
00:02:28,236 --> 00:02:31,676
to the onboard spacesuits that are used
in a spacewalk outside the complex.

34
00:02:32,446 --> 00:02:38,866
Also, Flight Engineers Don Pettit and Andre
Kuipers are busy practicing for the capture

35
00:02:38,866 --> 00:02:42,336
of the first commercial spacecraft
known as Dragon to arrive

36
00:02:42,336 --> 00:02:43,926
at the International Space Station.

37
00:02:44,146 --> 00:02:49,606
The pair will perform three grapple practice
sessions today using the station's Canadarm2

38
00:02:49,606 --> 00:02:51,276
during the dry run.

39
00:02:51,856 --> 00:02:55,176
SpaceX's Dragon is set to launch
from NASA's Kennedy Space Center

40
00:02:55,176 --> 00:02:57,136
at the end of the month on April 30.

41
00:02:58,746 --> 00:03:04,566
Meanwhile, Anton Shkaplerov and Oleg Kononenko
are prepping the Progress 46 cargo craft

42
00:03:04,566 --> 00:03:06,986

for its departure with final
closeout activities.

43
00:03:07,486 --> 00:03:10,256
The hatches have been closed
and the pair are now working

44
00:03:10,256 --> 00:03:13,996
on a leak pressure check of the hatches.

45
00:03:14,566 --> 00:03:18,506
The cargo craft is set to
undock from the space station

46
00:03:18,506 --> 00:03:21,946
at 6:04 a.m. Central time tomorrow morning.

47
00:03:21,946 --> 00:03:26,486
We will bring you live coverage of the vehicles
undocking here on NASA Television starting

48
00:03:26,486 --> 00:03:32,936
at 5:45 a.m. Earlier this morning station
Commander Dan Burbank spent some time testing

49
00:03:32,936 --> 00:03:37,226
the quality of the water onboard the
station conducting a total iodine analysis

50
00:03:37,226 --> 00:03:39,216
of onboard water samples.

51
00:03:39,556 --> 00:03:42,236
He also performed a preventative
maintenance inspection

52
00:03:42,236 --> 00:03:47,406
of emergency equipment including the fire
extinguishers and breathing apparatus

53
00:03:47,456 --> 00:03:51,446
that would be used by crew members in
an emergency event aboard the station.

54
00:03:52,546 --> 00:03:57,626
Later he set up for and began what will be about
3-1/2 hours of work today to remove and replace

55
00:03:57,676 --> 00:04:00,476
that hydrogen sensor of the
Oxygen Generator System.

56
00:04:01,696 --> 00:04:06,106
And also Flight Engineer Don Pettit is
spending some time working with Robonaut,

57
00:04:06,256 --> 00:04:10,176
the dexterous humanoid robot that is
aboard the International Space Station.

58
00:04:10,506 --> 00:04:14,976
He assembled the robot and
powered it up for some work with it

59
00:04:15,206 --> 00:04:17,246
that will be done during today's Update Hour.

60
00:04:18,056 --> 00:04:23,226
Also Flight Engineer Andre Kuipers performed
three separate re-breathing exercises as part

61
00:04:23,226 --> 00:04:25,316
of an ongoing study known as CARD.

62
00:04:25,736 --> 00:04:30,716
That experiment studies blood pressure decreases
in the human body exposed to microgravity

63
00:04:30,716 --> 00:04:33,946

for long periods of time as
that of the station resident.

64
00:04:35,196 --> 00:04:39,126
Later today station Commander Burbank
will continue to wrap up his work swapping

65
00:04:39,126 --> 00:04:44,016
out the hydrogen sensor of that Oxygen
Generator System and he'll participate

66
00:04:44,016 --> 00:04:46,656
in a regular private psychological conference.

67
00:04:46,716 --> 00:04:50,316
Meanwhile, Burbank's Soyuz crew
mates cosmonauts Anton Shkaplerov

68
00:04:50,316 --> 00:04:55,536
and Anatoly Ivanishin will spend some time with
preparations for the trio's departure next week.

69
00:04:56,106 --> 00:04:59,686
Burbank, Shkaplerov and Ivanishin who
launched from the Baikonur Cosmodrome

70
00:04:59,686 --> 00:05:05,296
in Kazakhstan aboard their Soyuz TMA-22 last
November are wrapping up their final week

71
00:05:05,296 --> 00:05:09,216
and days aboard the International
Space Station as they prepare

72
00:05:09,216 --> 00:05:11,646
to return back to Earth on April 27.

73
00:05:13,296 --> 00:05:17,386
At the day's end each crew member will
exercise to maintain his physical fitness

74
00:05:17,386 --> 00:05:20,496
and help mitigate the negative effects
of microgravity on their bodies.

75
00:05:21,056 --> 00:05:24,236
The Expedition 30 crew members
will do some evening prep work

76
00:05:24,236 --> 00:05:26,196
for another busy day in space tomorrow.

77
00:05:26,586 --> 00:05:30,406
They will then participate in their final daily
planning conference with ground controllers

78
00:05:30,406 --> 00:05:32,556
around the world before entering
their pre-sleep period.