1
00:00:01,516 --> 00:00:07,006
Good day, and welcome to the Christopher C.
Kraft Jr. Mission Control Center in Houston,

2
00:00:07,006 --> 00:00:10,706
Texas and the International Space
Station flight control room,

3
00:00:11,096 --> 00:00:14,976
where the team of flight controllers - being
led by Derek Hassmann who's the flight director

4
00:00:14,976 --> 00:00:20,666
in charge of the team, working closely with
Dan Tani the astronaut who will be talking

5
00:00:20,746 --> 00:00:24,176
with the Expedition 29 crew aboard
the International Space Station -

6
00:00:24,566 --> 00:00:29,006
are watching over the systems for the station
and integrating activities with the crew.

7
00:00:29,406 --> 00:00:33,936
Commander Mike Fossum and Flight
Engineers Satoshi Furukawa

8
00:00:34,096 --> 00:00:39,536
and Sergei Volkov are continuing their
six-month expedition aboard the International

9
00:00:39,536 --> 00:00:40,306
Space Station.

10
00:00:40,756 --> 00:00:45,636
They're in a three-person crew mode as they
await the upcoming launch on November 14

11

00:00:46,076 --> 00:00:51,536
of NASA's Dan Burbank and Russia's Anatoly
Ivanishin and Anton Shkaplerov who will round

12
00:00:51,536 --> 00:00:56,676
out the Expedition 29 crew for a brief period,
and then the three crew members who are

13
00:00:56,676 --> 00:01:00,326
on board, about six days later, after
completing a hand over, will come back to Earth

14
00:01:00,696 --> 00:01:05,546
and the next crew - with NASA astronaut
[Don] Pettit will get ready to launch

15
00:01:05,546 --> 00:01:08,836
to the International Space
Station in late December.

16
00:01:10,246 --> 00:01:15,756
All systems aboard the space station working
very well today, and the crew has been

17
00:01:15,756 --> 00:01:21,056
up since approximately 1 a.m., their
normal wake-up time, Central time.

18
00:01:21,446 --> 00:01:25,276
They've been having a very busy day today with
a number of different experiment activities.

19
00:01:25,526 --> 00:01:30,116
Mike Fossum has been focusing his
experiment work with the SPHERES satellites.

20
00:01:30,426 --> 00:01:35,276
That is a constellation of three
small, cube-like satellites

21

00:01:35,276 --> 00:01:37,116
on board the International Space Station.

22
00:01:37,766 --> 00:01:42,876
SPHERES stands for Synchronized Position Hold,
Engage, Reorient, Experimental [Satellites],

23
00:01:43,236 --> 00:01:50,436
and they're used to train and test software
systems that could provide for automated docking

24
00:01:50,646 --> 00:01:53,486
in the future, which could help
with future human spaceflight.

25
00:01:53,716 --> 00:01:59,126
Satoshi Furukawa is meanwhile
working on some hatch inspections

26
00:01:59,126 --> 00:02:00,846
in the U.S. segment of the space station.

27
00:02:01,476 --> 00:02:06,106
These hatches are inspected periodically,
and the folks here on the ground

28
00:02:06,106 --> 00:02:10,866
in the Operations Support discipline are
looking at maybe changing the frequency of this

29
00:02:10,866 --> 00:02:14,176
from every 90 days to every 180 days.

30
00:02:14,176 --> 00:02:19,896
But he's taking a close look at all the
seals and hatches, and if there is any need,

31
00:02:19,896 --> 00:02:22,206
doing some minor cleaning of those hatches.

32
00:02:22,436 --> 00:02:26,286
He's also photo-documenting the condition
of each of the hatches in preparation

33
00:02:26,286 --> 00:02:28,616
for reducing the frequency of that activity.

34
00:02:30,416 --> 00:02:35,196
Sergei Volkov meanwhile was working with one
of the Russian experiments on board, the Uragan

35
00:02:35,196 --> 00:02:39,986
or Hurricane experiment, which is an
Earth observation experiment looking

36
00:02:39,986 --> 00:02:42,056
at natural disasters on the Earth.

37
00:02:42,056 --> 00:02:44,276
It started back in the days
of the Mir space station.

38
00:02:44,906 --> 00:02:48,266
That's related to the overall
crew Earth observation activities

39
00:02:48,266 --> 00:02:49,946
that are going on board the space station.

40
00:02:50,366 --> 00:02:51,806
Crew has a number of targets today.

41
00:02:51,806 --> 00:02:54,606
We do have some video that
was recorded in timelapse

42
00:02:54,606 --> 00:02:57,876
from a camera positioned in the cupola module.

43
00:02:58,236 --> 00:03:02,146
This shows the Aurora Australis,
a very spectacular view

44
00:03:02,146 --> 00:03:04,536
as the space station orbited overhead.

45
00:03:04,706 --> 00:03:09,016
It was taken by the Expedition 28
crew members before they departed.

46
00:03:09,316 --> 00:03:14,326
That was Ron Garan, Alexander
Samokutyaev and Andrey Borisenko.

47
00:03:14,826 --> 00:03:20,306
Some additional Earth views associated
with the Southern Lights also recorded.

48
00:03:20,896 --> 00:03:28,976
Today's targets for Earth observations included
some various locations around the world: Luanda,

49
00:03:28,976 --> 00:03:36,106
Angola; Johannesburg, South Africa; and
Tropical Storm Philippe were among the targets

50
00:03:36,196 --> 00:03:39,426
for the space station crew
today with Earth observations.

51
00:03:42,876 --> 00:03:46,676
In addition, the crew of course will
get its normal complement of exercise

52
00:03:46,676 --> 00:03:52,796
on board the International Space Station, taking
about two to two and a half hours to exercise,

53

00:03:53,256 --> 00:03:59,726
and they're also going through the remaining
food and supply stores from 42 Progress,

54
00:03:59,726 --> 00:04:03,266
the most recently arrived Progress
to the International Space Station,

55
00:04:03,626 --> 00:04:09,216
to look for anything they want to keep or also
dispose of the next time a Progress departs.

56
00:04:09,286 --> 00:04:17,716
Commander Mike Fossum called down just a little
bit ago with surprise and a lot of happiness

57
00:04:17,716 --> 00:04:22,816
that he had discovered some espresso coffee
in those 42 Progress stores that were planned

58
00:04:22,816 --> 00:04:25,136
for use by a previous crew but went unused.

59
00:04:25,136 --> 00:04:30,316
And so he's going to take advantage of that
espresso coffee a little bit later in his day.

60
00:04:30,846 --> 00:04:35,846
So, the International Space Station
currently tracking from southwest to northeast

61
00:04:35,846 --> 00:04:40,726
over the Pacific off the coast
of Japan, headed for a landfall