



1
00:00:05,526 --> 00:00:08,226
>> Good day, and welcome
to "Space Station Live"

2
00:00:08,226 --> 00:00:11,076
and the International Space
Station Flight Control Room

3
00:00:11,076 --> 00:00:12,246
in Houston, Texas.

4
00:00:12,546 --> 00:00:16,736
Today the crew is preparing for
tomorrow's grapple unbirthing

5
00:00:16,736 --> 00:00:20,466
and release of Japanese
HTV4 cargo ship.

6
00:00:20,916 --> 00:00:22,456
It's been about a month

7
00:00:22,456 --> 00:00:24,956
since that cargo ship
arrived at the Space Station.

8
00:00:24,956 --> 00:00:26,606
All of the cargo's
been transferred

9
00:00:26,606 --> 00:00:29,376
from HTV4 to the Space Station.

10
00:00:29,796 --> 00:00:32,726
Tomorrow we'll be getting
coverage of that activity

11
00:00:32,726 --> 00:00:34,636
with an extended

"Space Station Live".

12

00:00:34,866 --> 00:00:38,286

We will expect to have
the robotic arm activities

13

00:00:38,286 --> 00:00:39,516

as they reach out.

14

00:00:39,516 --> 00:00:43,336

It's already been moved to a
[inaudible] grapple fixture

15

00:00:43,336 --> 00:00:49,376

on the harmony module, and the
crew will grapple the HTV4,

16

00:00:50,176 --> 00:00:53,786

move it away, and extend
it out to the full length

17

00:00:53,786 --> 00:00:59,316

of the 68-foot long
Canadian robotic arm known

18

00:00:59,316 --> 00:01:00,496

as Canada arm 2.

19

00:01:01,076 --> 00:01:03,506

Orient it properly
for its departure

20

00:01:04,436 --> 00:01:08,746

and then perform
the release of HTV4.

21

00:01:09,336 --> 00:01:15,176

HTV4 will be re-entering and
destroying a lot of trash

22

00:01:15,176 --> 00:01:17,766
that has been collected aboard
the International Space Station,

23

00:01:17,876 --> 00:01:20,386
freeing up much needed space
aboard the Space Station

24

00:01:20,876 --> 00:01:23,546
as it ends its journey

25

00:01:23,546 --> 00:01:27,416
to resupply the International
Space Station with a fiery burn

26

00:01:27,416 --> 00:01:28,696
up over the Pacific Ocean.

27

00:01:29,486 --> 00:01:31,706
The crew just now
closed the hatch.

28

00:01:32,126 --> 00:01:35,286
We have some views of Karen
Nyberg, Luca Parmitano,

29

00:01:35,286 --> 00:01:38,976
and Chris Cassidy as
they were finishing

30

00:01:38,976 --> 00:01:40,576
up the closure of that hatch.

31

00:01:41,046 --> 00:01:44,606
Again, release is scheduled
for about 10:55 a.m.,

32

00:01:44,606 --> 00:01:47,056
just 4:11 a.m. Central Time.

33

00:01:48,256 --> 00:01:50,776

Meanwhile, Pavel

Vinogradov, Chris Cassidy,

34

00:01:50,776 --> 00:01:53,276

and Aleksandr Misurkin

are loading items

35

00:01:53,276 --> 00:01:57,506

in their Soyuz spacecraft in

preparation for their undocking

36

00:01:57,506 --> 00:02:00,856

and landing in Kazakhstan

about one week from today.

37

00:02:01,536 --> 00:02:05,006

And this follows a

celebration on Saturday

38

00:02:05,006 --> 00:02:07,996

of station commander Pavel

Vinogradov's 60th birthday.

39

00:02:08,846 --> 00:02:12,296

Research is going to be

very important this week.

40

00:02:12,296 --> 00:02:13,886

Again, the crew members

will be working

41

00:02:13,886 --> 00:02:17,066

with reaction self-tests,

some fluid experiments,

42

00:02:17,066 --> 00:02:18,686

some combustion experiments.

43

00:02:19,076 --> 00:02:22,866

The sphere vehicles that are testing automated rendezvous

44

00:02:22,866 --> 00:02:27,066

activities inside and gathering some spinal ultrasound.

45

00:02:27,376 --> 00:02:30,996

They're also be doing some periodic fitness evaluations,

46

00:02:30,996 --> 00:02:33,346

hearing tests, and things of the like.

47

00:02:34,426 --> 00:02:38,376

Maintenance wise, they'll be doing some recycling tank drains

48

00:02:38,376 --> 00:02:41,446

into the other cargo vehicle that's docked at the station,

49

00:02:41,446 --> 00:02:43,416

the automated transfer vehicle,

50

00:02:43,416 --> 00:02:45,056

the European Space Agency vehicle,

51

00:02:45,536 --> 00:02:48,616

and doing some weekly water balancing among the different

52

00:02:48,616 --> 00:02:52,656

tanks and replacing an air selector valve.

53

00:02:52,916 --> 00:02:57,406
This past weekend on Saturday,
ATV4 thrusters that are

54
00:02:57,406 --> 00:02:59,076
on the far end of
the Russian segment

55
00:02:59,076 --> 00:03:01,646
of the station were fired
for three and a half minutes

56
00:03:01,646 --> 00:03:05,496
to reboost the stations
to an altitude of less

57
00:03:05,496 --> 00:03:07,926
than half a mile
more than it was.

58
00:03:07,996 --> 00:03:11,566
It now sits at 262 by
252 statute mile orbit.

59
00:03:12,006 --> 00:03:15,586
That reboost puts the station at
the right altitude and phasing

60
00:03:15,586 --> 00:03:19,756
for the upcoming landing of
Expedition 36 next Tuesday,

61
00:03:19,756 --> 00:03:22,056
and then for the launch

62
00:03:22,056 --> 00:03:25,946
of Expedition 37/38
crew on September 25.

63
00:03:26,486 --> 00:03:32,086

That crew will be headed for
a same-day arrival and docking

64

00:03:32,086 --> 00:03:35,616
at the International Space
Station featuring NASA flight

65

00:03:35,616 --> 00:03:38,546
engineer Michael
Hopkins, flight engineer

66

00:03:38,546 --> 00:03:39,856
and Soyuz commander Oleg Kotov,

67

00:03:40,076 --> 00:03:43,126
and flight engineer
Sergey Ryazanskiy.

68

00:03:43,506 --> 00:03:46,246
Today, they were being
tested on their knowledge

69

00:03:46,246 --> 00:03:49,496
of Russian segment systems
on the Space Station.

70

00:03:50,276 --> 00:03:52,886
Chris Cassidy, with the
help of Karen Nyberg,

71

00:03:52,886 --> 00:03:55,416
spent about seven hours
on Saturday continuing

72

00:03:55,416 --> 00:03:58,526
to troubleshoot the problem
with Luca Parmitano's spacesuit

73

00:03:58,566 --> 00:04:02,196
that has been the focus of a lot

of attention since water leaked

74

00:04:02,196 --> 00:04:05,366

into his helmet during a July
16th spacewalk that ended

75

00:04:05,366 --> 00:04:07,536

up being cut short
because of that.

76

00:04:07,936 --> 00:04:09,576

The Saturday troubleshooting
did eat

77

00:04:09,576 --> 00:04:11,776

into their Labor Day
holiday a little bit,

78

00:04:11,966 --> 00:04:15,286

but they did get Monday
off like most folks