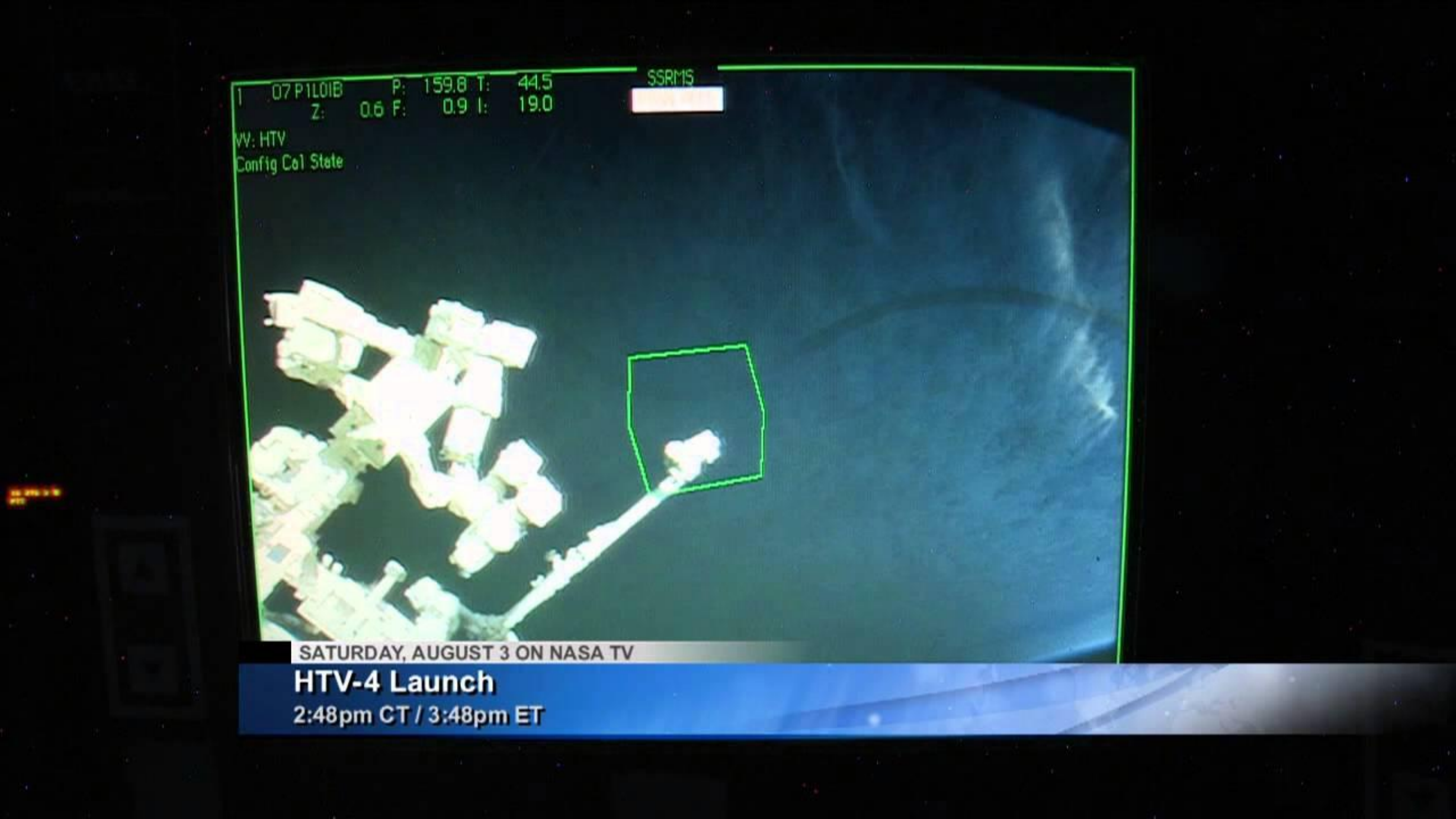
07 P1L0IB
P: 159.8 T: 44.5
Z: 0.6 F: 0.9 I: 19.0
SSRMS
VV: HTV
Config Col State
SATURDAY, AUGUST 3 ON NASA TV
HTV-4 Launch
2:48pm CT / 3:48pm ET

1
00:00:00,500 --> 00:00:11,040
[Music]

2
00:00:11,040 --> 00:00:13,440
>> Good morning and welcome
to Mission Control Houston

3
00:00:13,440 --> 00:00:15,130
and Space Station Live.

4
00:00:15,130 --> 00:00:17,430
We're here in the International
Space Station Flight Control

5
00:00:17,430 --> 00:00:20,310
room where the International
Space Flight Control team is

6
00:00:20,310 --> 00:00:23,690
watching over all of the
crew's activities in space.

7
00:00:23,690 --> 00:00:28,700
Flight Director Tony
Ceccacci is leading them today

8
00:00:28,700 --> 00:00:32,430
and Astronaut Megan McArthur
is in the CAPCOM seat.

9
00:00:32,430 --> 00:00:37,530
The Expedition 36 Crew
is now more than halfway

10
00:00:37,530 --> 00:00:41,270
through their day which
began at 1 a.m. Central Time.

11
00:00:41,270 --> 00:00:43,770

They are Russian
Commander Pavel Vinogradov,

12
00:00:43,770 --> 00:00:47,330
U.S. Flight Engineers Chris
Cassidy and Karen Nyberg,

13
00:00:47,330 --> 00:00:50,700
European Space Agency Flight
Engineer Luca Parmitano

14
00:00:50,700 --> 00:00:53,150
and Russian Flight
Engineers Alexander Mazurkin

15
00:00:53,150 --> 00:00:54,790
and [Foreign name].

16
00:00:55,820 --> 00:01:00,330
Cassidy, Vinogradov and Mazurkin
launched into space on March 28

17
00:01:00,330 --> 00:01:01,560
and docked a few hours later

18
00:01:01,560 --> 00:01:06,350
so they've now spent
125 days in space.

19
00:01:06,350 --> 00:01:08,590
Nyberg, Parmitano and
[Foreign name] followed

20
00:01:08,590 --> 00:01:13,570
in their footsteps on May 28,
and they've now spent 64 days

21
00:01:13,570 --> 00:01:16,630
in space and at the station.

22
00:01:16,630 --> 00:01:19,900
Together, the crew is
currently orbiting 258 miles

23
00:01:19,900 --> 00:01:22,830
above the border of China,

24
00:01:22,830 --> 00:01:25,450
heading northeast towards
the northernmost portion

25
00:01:25,450 --> 00:01:31,210
of this orbit around the earth.

26
00:01:31,210 --> 00:01:33,820
Inside, Cassidy and
Nyberg were back

27
00:01:33,820 --> 00:01:36,530
at the space station's robotic
workstation today getting ready

28
00:01:36,530 --> 00:01:40,100
for the arrival of the Japan
Aerospace Exploration Agency's

29
00:01:40,100 --> 00:01:44,170
[inaudible] H2 transfer
vehicle number four.

30
00:01:44,170 --> 00:01:45,550
That vehicle is set to launch

31
00:01:45,550 --> 00:01:47,590
from the Tanegashima
Space Center in Japan

32
00:01:47,590 --> 00:01:51,130
at 2:48 p.m. Central Time on

Saturday and then make its way

33
00:01:51,130 --> 00:01:53,560
to the space station on
August 9 where Nyberg

34
00:01:53,560 --> 00:01:55,210
and Cassidy will be
waiting to capture it

35
00:01:55,210 --> 00:01:58,560
with the space station's
robotic arm and bring it

36
00:01:58,560 --> 00:02:00,720
in for a birthing
on the Harmony Node.

37
00:02:00,720 --> 00:02:04,460
Today they're brushing up on
their skills for that activity.

38
00:02:06,740 --> 00:02:08,730
Nyberg is also spending
a good day of her --

39
00:02:08,730 --> 00:02:10,840
good bit of her day
getting ready for the

40
00:02:10,840 --> 00:02:15,040
in space three experiment,
that's an experiment that looks

41
00:02:15,040 --> 00:02:17,560
at how magnetic fluids
are influenced

42
00:02:17,560 --> 00:02:20,150
by magnetic fields

in microgravity.

43
00:02:20,150 --> 00:02:22,920
It could help engineers here
on the ground design structures

44
00:02:22,920 --> 00:02:26,840
such as bridges and buildings
to better withstand earthquakes.

45
00:02:26,840 --> 00:02:33,070
View of here of Nyberg working
inside the microgravity science

46
00:02:33,070 --> 00:02:36,530
glove box where that
experiment will be housed.

47
00:02:37,690 --> 00:02:39,670
Besides these science
experiments, Cassidy

48
00:02:39,670 --> 00:02:43,600
and Parmitano are each doing
some maintenance work on some

49
00:02:43,600 --> 00:02:46,830
of the science facilities
at the space station.

50
00:02:46,830 --> 00:02:48,680
Parmitano is troubleshooting
an issue

51
00:02:48,680 --> 00:02:50,520
with the handling
mechanism drawer

52
00:02:50,520 --> 00:02:54,540
for the European Space Agency's

Biological Experiment Laboratory

53
00:02:54,540 --> 00:02:56,890
which provides an on
orbit biology laboratory

54
00:02:56,890 --> 00:02:59,980
that lets scientists study
the effects of microgravity

55
00:02:59,980 --> 00:03:06,490
and space radiation on uni
and multi cell organisms

56
00:03:06,490 --> 00:03:11,440
such as bacteria,
insects, seeds and cells.

57
00:03:11,440 --> 00:03:13,310
And Cassidy is performing
a checkout

58
00:03:13,310 --> 00:03:14,290
of the combustion chamber

59
00:03:14,290 --> 00:03:16,560
in the Japan Aerospace
Exploration Agency's

60
00:03:16,560 --> 00:03:19,110
multipurpose small payload rack.

61
00:03:19,110 --> 00:03:21,650
You can see him inside
in the Kibo Laboratory

62
00:03:21,650 --> 00:03:25,780
where that equipment is housed

63

00:03:25,780 --> 00:03:27,280
in this video from
earlier today.

64
00:03:27,280 --> 00:03:33,460
And on the Russian side
of the space station,

65
00:03:33,460 --> 00:03:36,420
Commander Alexander Vinogradov
is continuing his work

66
00:03:36,420 --> 00:03:39,540
to unload the progress 52
resupply vehicle that arrived

67
00:03:39,540 --> 00:03:41,760
at the space station
on Saturday.

68
00:03:41,760 --> 00:03:45,430
And his Russian crewmates
are working

69
00:03:45,430 --> 00:03:47,360
on several different
experiments, including one

70
00:03:47,360 --> 00:03:49,690
that looks at cultivating
different types of cells

71
00:03:49,690 --> 00:03:53,030
in microgravity and one that
studies the creation of methods

72
00:03:53,030 --> 00:03:55,920
and equipment for
producing aseptic conditions

73

00:03:55,920 --> 00:03:59,800
for conducting biotechnology
experiments in space.

74
00:03:59,800 --> 00:04:01,270
That's what's going
on in space today