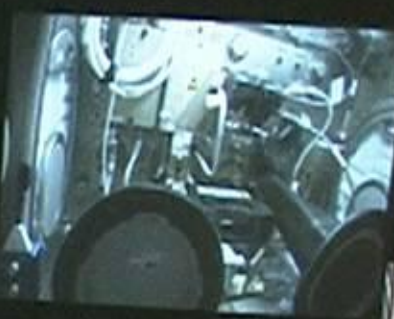


A projection screen displaying a data table with multiple columns and rows of text. The table appears to be a schedule or a list of parameters, with some cells highlighted in green.

OSO

A workstation with multiple monitors displaying various data and graphs. The desk is cluttered with papers, a printer, and other office equipment.

ISO

A workstation with multiple monitors displaying various data and graphs. The desk is cluttered with papers, a printer, and other office equipment.

CATO

A workstation with multiple monitors displaying various data and graphs. The desk is cluttered with papers, a printer, and other office equipment.

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A workstation with multiple monitors displaying various data and graphs. The desk is cluttered with papers, a printer, and other office equipment.

1
00:00:00,500 --> 00:00:07,110
[Music]

2
00:00:07,110 --> 00:00:10,270
>> Good morning from Mission
Control Houston and welcome

3
00:00:10,270 --> 00:00:13,600
to today's Space Station Live,
you're joining us here inside

4
00:00:13,600 --> 00:00:15,710
at the International Space
Station Flight Control Room

5
00:00:15,710 --> 00:00:18,140
at the Johnson Space
Center in Houston, Texas.

6
00:00:18,140 --> 00:00:21,240
Looking down now at the Orbit 2
team currently manning consoles

7
00:00:21,240 --> 00:00:23,670
throughout the control room,
monitoring all the systems

8
00:00:23,670 --> 00:00:25,650
on this orbiting laboratory.

9
00:00:25,650 --> 00:00:28,760
Today's team is being led today
by Flight Director Chris Edelen,

10
00:00:28,760 --> 00:00:30,980
you can see standing up
there and joining him

11
00:00:30,980 --> 00:00:33,380

at the Capcom position serving
as the communication link

12

00:00:33,380 --> 00:00:36,140
between our astronauts up in
space and the teams down here

13

00:00:36,140 --> 00:00:39,040
on the ground is Hal Getzeman.

14

00:00:39,040 --> 00:00:42,470
Again, that team right now
is the crew of Expedition 35,

15

00:00:42,470 --> 00:00:46,440
six man contingent of astronauts
from countries around the globe,

16

00:00:46,440 --> 00:00:47,490
they're being led right now

17

00:00:47,490 --> 00:00:50,560
by Canadian Space Agency
Astronaut Chris Hadfield,

18

00:00:50,560 --> 00:00:52,300
there in the front
row on the right.

19

00:00:52,300 --> 00:00:55,060
Behind him, a Russian
Cosmonaut Roman Romanenko

20

00:00:55,060 --> 00:00:58,390
and NASA Astronaut Tom Marshburn
all the way on the right here;

21

00:00:58,390 --> 00:01:01,810
those three have been onboard
the International Space Station

22

00:01:01,810 --> 00:01:04,720
since late December, scheduled
to come home in a little

23

00:01:04,720 --> 00:01:06,300
under two weeks from now.

24

00:01:06,300 --> 00:01:09,610
Rounding out the crew, we have
our three newer crewmembers

25

00:01:09,610 --> 00:01:12,200
who just launched back
in the end of March,

26

00:01:12,200 --> 00:01:16,070
two Russian Cosmonauts [Foreign
name] and Alexander Mazurkin,

27

00:01:16,070 --> 00:01:20,360
then finally one more NASA
Astronaut, Chris Cassidy.

28

00:01:20,360 --> 00:01:24,170
Onboard the station, the crew
and a mix of research studies

29

00:01:24,170 --> 00:01:27,560
and maintenance tasks throughout
the station, starting off

30

00:01:27,560 --> 00:01:28,840
with Commander Chris Hadfield

31

00:01:28,840 --> 00:01:32,000
who immediately upon
wakeup today, participated

32

00:01:32,000 --> 00:01:34,450
in the reaction self-test,
it's a series

33
00:01:34,450 --> 00:01:37,780
of reaction timing tests the
astronauts undergo throughout

34
00:01:37,780 --> 00:01:40,030
their long duration
space flights.

35
00:01:40,030 --> 00:01:42,820
Aside from that, he
was setting up a sample

36
00:01:42,820 --> 00:01:44,260
and a camera recording system

37
00:01:44,260 --> 00:01:48,730
for the binary colloidal alloy
test, an ongoing research study

38
00:01:48,730 --> 00:01:52,250
into small colloids
suspended in fluids,

39
00:01:52,250 --> 00:01:55,010
it's a particle experiment
onboard the International

40
00:01:55,010 --> 00:01:56,230
Space Station.

41
00:01:56,230 --> 00:01:57,870
He was also on the
hook today to set

42
00:01:57,870 --> 00:02:01,090
up the space acceleration

mass measurement system,

43

00:02:01,090 --> 00:02:04,940

he'll be replacing a laptop
that's an ongoing NASA study

44

00:02:04,940 --> 00:02:07,740

looking at the small
forces such as vibrations

45

00:02:07,740 --> 00:02:10,540

and the acceleration of the
International Space Station,

46

00:02:10,540 --> 00:02:13,130

resulting from the
operation of numerous hardware

47

00:02:13,130 --> 00:02:15,740

and crew activities
and also dynamic events

48

00:02:15,740 --> 00:02:18,790

such as spacecraft
docking and maneuvering.

49

00:02:18,790 --> 00:02:22,000

Moving on, our first Russian
Cosmonaut [Foreign name]

50

00:02:22,000 --> 00:02:25,310

Expedition 35 Flight Engineer,
he's on the Russian segment,

51

00:02:25,310 --> 00:02:27,430

sampling some of
the condensate water

52

00:02:27,430 --> 00:02:29,700

out of the gas liquid

mixture filter.

53

00:02:29,700 --> 00:02:31,140

He was working on
that yesterday,

54

00:02:31,140 --> 00:02:34,040

cleaning a few fan screens and
doing some maintenance work.

55

00:02:34,040 --> 00:02:35,140

He'll also be inside

56

00:02:35,140 --> 00:02:39,400

of the recently docked
51P progress vehicle,

57

00:02:39,400 --> 00:02:40,870

transferring some
of the cargo out of

58

00:02:40,870 --> 00:02:43,280

that to the International
Space Station,

59

00:02:43,280 --> 00:02:46,390

that progress delivered
just over 3 tons of supplies

60

00:02:46,390 --> 00:02:47,740

to the International
Space Station.

61

00:02:47,740 --> 00:02:49,630

You can see the current makeup

62

00:02:49,630 --> 00:02:51,440

of all visiting vehicles
docked here,

63

00:02:51,440 --> 00:02:54,150

that progress 51 all the
way in the back there.

64

00:02:54,150 --> 00:02:57,500

He'll be transferring some of
that cargo over for stowage

65

00:02:57,500 --> 00:03:00,600

in various spots
around the station.

66

00:03:00,600 --> 00:03:04,690

Meanwhile, Alexander
Mazurkin also taking place --

67

00:03:04,690 --> 00:03:06,550

or taking a part in
that cargo transfer

68

00:03:06,550 --> 00:03:09,290

from that progress
vehicle, he's also involved

69

00:03:09,290 --> 00:03:11,380

in the Russian [inaudible]
experiment this morning

70

00:03:11,380 --> 00:03:15,050

which looks to investigate
the unfavorable impact

71

00:03:15,050 --> 00:03:16,790

that the microgravity
environment has

72

00:03:16,790 --> 00:03:19,510

on the astronaut's hydration
status throughout their

73

00:03:19,510 --> 00:03:21,230

spaceflights and he'll also be

74

00:03:21,230 --> 00:03:23,810

over in the Russian segment
doing some routine coolant

75

00:03:23,810 --> 00:03:25,920

system maintenance.

76

00:03:25,920 --> 00:03:29,380

Meanwhile, NASA Astronaut Chris
Cassidy who's working on setting

77

00:03:29,380 --> 00:03:31,790

up the combustion integrated
rack a little bit earlier this

78

00:03:31,790 --> 00:03:35,370

morning for another run of the
BASS experiment, BASS standing

79

00:03:35,370 --> 00:03:39,260

for the burning and suppression
of solids, it looks at igniting

80

00:03:39,260 --> 00:03:41,500

and a number of various
fuel samples

81

00:03:41,500 --> 00:03:43,430

in that microgravity
environment,

82

00:03:43,430 --> 00:03:48,190

hoping to determine better
methods for fire suppression,

83

00:03:48,190 --> 00:03:50,880

especially in microgravity,
also feeding

84

00:03:50,880 --> 00:03:53,220

into computational models
used down here on earth

85

00:03:53,220 --> 00:03:55,840

for those suppression
methods, not only in space

86

00:03:55,840 --> 00:03:58,270

but for systems around
the globe here.

87

00:03:58,270 --> 00:04:00,430

And then right now, he's working

88

00:04:00,430 --> 00:04:03,250

on the extravehicular mobility
unit, these space suits

89

00:04:03,250 --> 00:04:06,320

that these astronauts use when
they step outside the station.

90

00:04:06,320 --> 00:04:11,410

He'll be doing a dump and refill
of the water contained inside

91

00:04:11,410 --> 00:04:13,660

as just some of the
routine maintenance needed

92

00:04:13,660 --> 00:04:16,030

to keep these suits
in working condition.

93

00:04:16,030 --> 00:04:21,180

Our third Russian Cosmonaut

Roman Romanenko did some body

94

00:04:21,180 --> 00:04:24,260

size measurements earlier
this morning right upon wakeup

95

00:04:24,260 --> 00:04:27,790

but his main task today will
be preparing that Soyuz craft

96

00:04:27,790 --> 00:04:32,020

for the undocking [inaudible]
schedule to undergo just

97

00:04:32,020 --> 00:04:34,100

under two weeks from
now on May 13,

98

00:04:34,100 --> 00:04:36,370

when he'll be departing the
International Space Station

99

00:04:36,370 --> 00:04:39,490

alongside Chris Hadfield
and Tom Marshburn.

100

00:04:39,490 --> 00:04:42,450

They'll be bringing an end to
their stint onboard the station

101

00:04:42,450 --> 00:04:44,210

by the time of undock,
having spent

102

00:04:44,210 --> 00:04:47,830

about 144 days onboard
the orbiting complex.

103

00:04:47,830 --> 00:04:51,910

Romanenko will be preparing the

vehicle and prepacking a number

104

00:04:51,910 --> 00:04:53,650

of the items that
will be coming back

105

00:04:53,650 --> 00:04:57,320

and then doing some more generic
crew departure prep in addition

106

00:04:57,320 --> 00:05:01,050

and then our final crewmember
onboard Tom Marshburn,

107

00:05:01,050 --> 00:05:03,890

working with the integrated
cardiovascular study today,

108

00:05:03,890 --> 00:05:06,440

taking a number of
ultrasounds of his heart,

109

00:05:06,440 --> 00:05:09,050

integrated cardiovascular
looking to track

110

00:05:09,050 --> 00:05:10,590

and monitor the atrophy

111

00:05:10,590 --> 00:05:13,300

of the heart muscle throughout
long duration spaceflights

112

00:05:13,300 --> 00:05:15,900

as these astronauts are exposed
to microgravity environments

113

00:05:15,900 --> 00:05:17,650

for long periods of time.

114

00:05:17,650 --> 00:05:18,860

He'll also be getting a chance

115

00:05:18,860 --> 00:05:22,350

to do a hand radio pass using
a hand radio much like found

116

00:05:22,350 --> 00:05:24,470

down here on the ground,
talking to students