



1
00:00:01,300 --> 00:00:03,302
And this is mission
control Houston.

2
00:00:03,302 --> 00:00:06,939
A very busy day for the
three-person crew aboard the

3
00:00:06,939 --> 00:00:10,142
International Space
Station today, now commanded

4
00:00:10,142 --> 00:00:14,180
by Chris Hadfield the Canadian
space agency's first commander

5
00:00:14,180 --> 00:00:17,083
of the international
research outpost.

6
00:00:17,083 --> 00:00:19,652
On board with him are
Tom Marshburn of NASA

7
00:00:19,652 --> 00:00:23,622
and Roman Romanenko of the
Russian federal space agency.

8
00:00:23,622 --> 00:00:26,892
The trio' been working
on a variety

9
00:00:26,892 --> 00:00:28,294
of different activities today.

10
00:00:28,294 --> 00:00:31,864
They're adjusting to the smaller
crew size after the departure

11

00:00:31,864 --> 00:00:35,267
of previous commander Kevin
Ford and his Russian colleagues,

12

00:00:35,267 --> 00:00:38,070
Oleg Novitskiy and
Evgeny Tarelkin

13

00:00:38,070 --> 00:00:40,072
who returned home this weekend

14

00:00:40,072 --> 00:00:43,709
with a landing in
the Kazakh steppe.

15

00:00:44,877 --> 00:00:47,079
Kevin Ford already
back home in Houston

16

00:00:47,079 --> 00:00:50,382
and reportedly doing very well
after his more than four months

17

00:00:50,382 --> 00:00:53,285
in space and his crewmates
are back to Moscow.

18

00:00:53,285 --> 00:00:58,891
It was a very cold
and wintry time

19

00:00:58,891 --> 00:01:01,894
on the Kazakh steppe
for the landing.

20

00:01:01,894 --> 00:01:06,332
Several of the helicopters
that were part of the search

21

00:01:06,332 --> 00:01:10,236

and recovery group were not able
to fly out to the landing site

22

00:01:10,236 --> 00:01:14,340

and so there was just minimal
attribute to recover the crew

23

00:01:14,340 --> 00:01:18,077

but they did very well in the
landing and all were healthy

24

00:01:18,077 --> 00:01:19,278

after they were extracted.

25

00:01:19,278 --> 00:01:24,183

The capsule landed in a
normal vertical condition.

26

00:01:24,183 --> 00:01:28,721

And the crew was
extricated as planned.

27

00:01:31,357 --> 00:01:33,893

Today the crew is
working on a variety

28

00:01:33,893 --> 00:01:36,462

of different experiments
onboard the space station.

29

00:01:36,462 --> 00:01:40,733

Hadfield has been reinstalling
a computer that's used

30

00:01:40,733 --> 00:01:42,935

for the material
science research rack

31

00:01:42,935 --> 00:01:45,504

after a software upgrade.

32

00:01:45,504 --> 00:01:48,307

He's also been changing out samples on the Coarsening

33

00:01:48,307 --> 00:01:51,310

In Solid Liquid Mixtures

2 experiment

34

00:01:51,310 --> 00:01:54,246

and that's an experiment in which small particles shrink

35

00:01:54,246 --> 00:01:56,782

by losing atoms to larger particles

36

00:01:56,782 --> 00:02:00,119

and that creates a larger particles that grow or coarsen

37

00:02:00,119 --> 00:02:03,622

within a liquid matrix of lead and tin.

38

00:02:03,622 --> 00:02:06,792

The study is trying to find mechanisms and rate

39

00:02:06,792 --> 00:02:11,630

of how fast things coarsen that would be useful for anything

40

00:02:11,630 --> 00:02:16,569

from turbine blades to dental fillings to aluminum alloys.

41

00:02:16,569 --> 00:02:21,240

Hadfield also copying images and installing the new samples

42

00:02:21,240 --> 00:02:25,911
in the Binary Colloid [Alloy]
Test experiment that looks

43

00:02:25,911 --> 00:02:28,380
at how well things
that are mixtures

44

00:02:28,380 --> 00:02:33,719
of solids their liquids behave
in the microgravity environment.

45

00:02:33,719 --> 00:02:36,956
Tom Marshburn has been
swapping out some cartridges

46

00:02:36,956 --> 00:02:40,159
with the Hicari experiment
on board the station.

47

00:02:40,159 --> 00:02:47,032
The Hicari experimenter is the
Japanese experimenter and it looks

48

00:02:47,032 --> 00:02:51,937
at the growth of homogenous
crystals in microgravity

49

00:02:51,937 --> 00:02:57,676
and is hoping to learn some
things about that kind of growth

50

00:02:57,676 --> 00:03:01,647
that will help improve
solar cells

51

00:03:01,647 --> 00:03:04,450
and semiconductors
on the ground.

52

00:03:06,785 --> 00:03:10,222

Marshburn also is stowing
away some of the hardware

53

00:03:10,222 --> 00:03:12,258

from the Medaka fish experiment.

54

00:03:12,258 --> 00:03:14,793

Much of that is coming back
on the Dragon spacecraft

55

00:03:14,793 --> 00:03:17,730

when it returns home
at the of the week.

56

00:03:17,730 --> 00:03:20,833

Roman Romanenko working on
removing a controller panel

57

00:03:20,833 --> 00:03:22,835

for the Automated
Transfer Vehicle,

58

00:03:22,835 --> 00:03:25,504

that's the European Space
Agency's cargo vehicle,

59

00:03:25,504 --> 00:03:28,574

and he's doing that work in
the Zvezda service module.

60

00:03:28,574 --> 00:03:30,042

And all the crew
members are going

61

00:03:30,042 --> 00:03:32,778

to be conducting a conference
with the future crew members

62

00:03:32,778 --> 00:03:35,414

for upcoming Expedition

36 - Karen Nyberg,

63

00:03:35,414 --> 00:03:39,051

Fyodor Yurchikhin

and Luca Parmitano.

64

00:03:41,287 --> 00:03:44,890

We've had one of our two
public affairs events today.

65

00:03:44,890 --> 00:03:48,227

The second will be the
Expedition 35 in-flight event

66

00:03:48,227 --> 00:03:51,964

with the popular band
30 Seconds to Mars.

67

00:03:51,964 --> 00:03:54,800

That's coming up at
12:10 PM central time,

68

00:03:54,800 --> 00:03:56,969

and over the coming week the
all the crew members shall be

69

00:03:56,969 --> 00:03:59,838

involved in final storage of
cargo to be returned to Earth

70

00:03:59,838 --> 00:04:01,907

on the Dragon cargo spacecraft.

71

00:04:01,907 --> 00:04:04,109

Stowage is about 54
percent complete now

72

00:04:04,109 --> 00:04:06,912
and Dragon is scheduled to
be robotically unberthed

73

00:04:06,912 --> 00:04:10,382
at 5:20 AM central
time on March 25

74

00:04:10,382 --> 00:04:13,285
and then re-enter the Earth's
atmosphere and splashdown

75

00:04:13,285 --> 00:04:16,989
in the Pacific Ocean recovery
and return of those samples

76

00:04:16,989 --> 00:04:19,425
of other equipment to Earth

77

00:04:19,425 --> 00:04:23,996
from on board the
International Space Station.

78

00:04:23,996 --> 00:04:26,665
All systems on the space
station working very well

79

00:04:26,665 --> 00:04:29,301
as the crew continues
through its day

80

00:04:29,301 --> 00:04:31,804
and the flight controllers
on the ground work

81

00:04:31,804 --> 00:04:34,907
on a periodic test
of the efficiency