
OSO
ASO
CATO

1
00:00:01,990 --> 00:00:03,900
Good morning and welcome
to Mission Control Houston

2
00:00:03,900 --> 00:00:06,370
and the International
Space Station update hour.

3
00:00:06,370 --> 00:00:08,770
We are here with International
Space Station Flight Control

4
00:00:08,770 --> 00:00:11,240
Team inside the space
station flight control room

5
00:00:11,240 --> 00:00:14,540
where flight director Judd
Freely is a leading the team

6
00:00:14,540 --> 00:00:18,080
with help from capcom
Anna Fisher.

7
00:00:18,080 --> 00:00:20,010
Onboard the space
station three members

8
00:00:20,010 --> 00:00:23,040
of Expedition 34 crew are more
than halfway through their day

9
00:00:23,040 --> 00:00:27,780
and currently orbiting 258
miles above the coast of Burma.

10
00:00:29,020 --> 00:00:31,000
They are Commander Kevin Ford

11

00:00:31,000 --> 00:00:33,660
and Flight Engineer
Tom Marshburn of NASA,

12
00:00:33,660 --> 00:00:36,590
Russian Flight Engineers Oleg
Novitskiy, Evgeny Tarelkin

13
00:00:36,590 --> 00:00:40,860
and Roman Romanenko and Canadian
space agency Flight Engineer

14
00:00:40,860 --> 00:00:42,620
Chris Hadfield.

15
00:00:43,730 --> 00:00:47,140
Ford, Novitskiy and Tarelkin
have been at the space station

16
00:00:47,140 --> 00:00:51,050
since October when their Soyuz
TMA-06M vehicle docked the

17
00:00:51,050 --> 00:00:52,680
Russian Poisk module.

18
00:00:52,680 --> 00:00:56,040
They are now working on their
120 day at the space station

19
00:00:56,040 --> 00:01:00,490
in their 122 day in space, and
they were joined in December

20
00:01:00,490 --> 00:01:02,980
by Marshburn, Hadfield
and Romanenko

21
00:01:02,980 --> 00:01:05,680
who docked their Soyuz TMA-07M

22
00:01:05,680 --> 00:01:09,650
to the station's Rassvet
module on December 21.

23
00:01:09,650 --> 00:01:11,410
They are on their
65 day in space

24
00:01:11,410 --> 00:01:13,100
and their 63 on the station.

25
00:01:13,100 --> 00:01:15,790
The crew has quite
a mix of activities

26
00:01:15,790 --> 00:01:17,240
on its agenda for the day.

27
00:01:17,240 --> 00:01:20,300
Commander Kevin Ford and his
fellow Soyuz crewmates Oleg

28
00:01:20,300 --> 00:01:23,280
Novitskiy and Evgeny
Tarelkin spent some time

29
00:01:23,280 --> 00:01:25,040
in their Soyuz this
morning checking

30
00:01:25,040 --> 00:01:27,310
out the special seats
they will be sitting

31
00:01:27,310 --> 00:01:30,640
in on their return
to Earth on March 15.

32

00:01:30,640 --> 00:01:32,210
Soyuz seats are specially
designed

33
00:01:32,210 --> 00:01:33,460
for each individual crew member

34
00:01:33,460 --> 00:01:35,820
to provide them the
best cushion possible

35
00:01:35,820 --> 00:01:38,120
for their landing in Kazakhstan.

36
00:01:38,120 --> 00:01:41,080
Ford also spent some time
putting away the Inspace-3

37
00:01:41,080 --> 00:01:42,600
experiment, which
wrapped up on Wednesday

38
00:01:42,600 --> 00:01:46,370
and getting the space station's
combustion integrated rack

39
00:01:46,370 --> 00:01:49,600
prepared for an upcoming
series of experiments.

40
00:01:51,410 --> 00:01:54,090
Chris Hadfield and Tom
Marshburn, meanwhile,

41
00:01:54,090 --> 00:01:55,720
both spent much of
their morning working

42
00:01:55,720 --> 00:01:57,040
through some regular checks

43
00:01:57,040 --> 00:01:58,880
of the station's
environment making sure

44
00:01:58,880 --> 00:02:00,880
that it's healthy
for the crew members.

45
00:02:00,880 --> 00:02:04,870
Hadfield took some samples off
of various station surfaces

46
00:02:04,870 --> 00:02:07,290
and in the station's air,

47
00:02:07,290 --> 00:02:09,970
while Marshburn monitored
the noise level aboard

48
00:02:09,970 --> 00:02:12,000
and took water samples.

49
00:02:14,730 --> 00:02:17,070
Marshburn also had
some time set aside

50
00:02:17,070 --> 00:02:21,990
to get the station's light
microscopy module set

51
00:02:21,990 --> 00:02:26,060
up for an upcoming run of the
advanced colloids experiment,

52
00:02:26,060 --> 00:02:28,520
which could provide important
data that is not available

53

00:02:28,520 --> 00:02:30,140
on Earth and give us
better understanding

54
00:02:30,140 --> 00:02:33,000
of crystallization
production, quality control

55
00:02:33,000 --> 00:02:37,890
and phase separation, or
shelf life, and product lacks.

56
00:02:37,890 --> 00:02:40,390
Back on the ground, flight
controllers are continuing

57
00:02:40,390 --> 00:02:43,150
to work through the software
update that caused a loss

58
00:02:43,150 --> 00:02:45,610
of communication with
the crew on Tuesday.

59
00:02:45,610 --> 00:02:47,430
Since Tuesday, everything
has been going smoothly

60
00:02:47,430 --> 00:02:50,720
with that work and yesterday
the team here with able to catch

61
00:02:50,720 --> 00:02:53,630
up on the work originally
scheduled for Tuesday.

62
00:02:53,630 --> 00:02:56,870
Today they are moving on with
the loading of the final command

63

00:02:56,870 --> 00:02:59,610
and control computer
with new software.

64
00:02:59,610 --> 00:03:03,790
The transition should be
wrapped up by Saturday.

65
00:03:03,790 --> 00:03:07,510
In addition team here on the
ground has been preparing

66
00:03:07,510 --> 00:03:10,430
for reboost that the station is
scheduled to perform tomorrow

67
00:03:10,430 --> 00:03:13,160
at 4:34 a.m. Central Time.

68
00:03:13,160 --> 00:03:15,220
That adjustment to the
station's altitude,

69
00:03:15,220 --> 00:03:19,310
will use the Progress
49 thrusters,

70
00:03:19,310 --> 00:03:22,600
firing them for four minutes
and 37 seconds, and that's going

71
00:03:22,600 --> 00:03:24,940
to increase the station's
perigee, or the low point

72
00:03:24,940 --> 00:03:30,240
of its orbit, by 1.3 miles
and leave the station in a 257

73
00:03:30,240 --> 00:03:35,470

by 252 mile orbit, putting them
in place for Ford, Novitskiy

74
00:03:35,470 --> 00:03:37,780
and Tarelkin's undocking
in March,

75
00:03:37,780 --> 00:03:39,040
as well as preparing the station

76
00:03:39,040 --> 00:03:41,840
for the single day
launch-docking schedule

77
00:03:41,840 --> 00:03:43,340
with the crew that will
be taking their place.

78
00:03:43,340 --> 00:03:46,380
That is what has been
going on in space today