
Mission Control Center
ISO
CATO

1
00:00:00,500 --> 00:00:11,070
[Music]

2
00:00:11,070 --> 00:00:13,870
>> Good Thursday
morning, April 4th, 2013.

3
00:00:13,870 --> 00:00:14,310
You're looking

4
00:00:14,310 --> 00:00:17,250
at the International Space
Station Flight Control Room,

5
00:00:17,250 --> 00:00:20,390
as a team of flight controllers
once again looks over all

6
00:00:20,390 --> 00:00:23,380
of the systems aboard the
International Space Station

7
00:00:23,380 --> 00:00:25,320
to those systems operating

8
00:00:25,320 --> 00:00:29,620
in excellent shape aboard
the complex, as this team

9
00:00:29,620 --> 00:00:32,560
of flight controllers
has been on console

10
00:00:32,560 --> 00:00:35,770
since early this morning
on about a 9-hour shift

11
00:00:35,770 --> 00:00:39,530
that allows teams of flight

controllers to overlap

12
00:00:39,530 --> 00:00:43,770
and support station
operations around the clock here

13
00:00:43,770 --> 00:00:46,470
in Houston 24 hours a day.

14
00:00:46,470 --> 00:00:49,770
You are looking at the team from
the front corner of the room.

15
00:00:49,770 --> 00:00:51,830
The team today, once again,

16
00:00:51,830 --> 00:00:54,570
is led by Flight
Director Mike Lammers.

17
00:00:54,570 --> 00:00:58,450
He's joined by David
Saint-Jacques, who is serving

18
00:00:58,450 --> 00:01:02,250
as the communications link
between this flight control team

19
00:01:02,250 --> 00:01:05,390
and the crew on board the
International Space Station.

20
00:01:05,390 --> 00:01:07,830
That space station at 250 miles

21
00:01:07,830 --> 00:01:10,210
above the earth's
surface is just

22

00:01:10,210 --> 00:01:12,610
about to track off the
southern tip of Kamchatka,

23
00:01:12,610 --> 00:01:14,870
as it begins a north --

24
00:01:14,870 --> 00:01:18,890
a northeasterly to then
southeasterly track

25
00:01:18,890 --> 00:01:23,030
across the Pacific Ocean
into an orbital sunrise

26
00:01:23,030 --> 00:01:26,430
in about 20 minutes
midway across the Pacific.

27
00:01:26,430 --> 00:01:30,110
From this vantage point the
crew sees an orbital sunrise

28
00:01:30,110 --> 00:01:33,190
and sunset every
45 minutes or so.

29
00:01:33,190 --> 00:01:37,230
16 orbits a day make up
the 24-hour orbital period

30
00:01:37,230 --> 00:01:38,890
of the International
Space Station.

31
00:01:38,890 --> 00:01:44,650
The Expedition 35 crew
aboard the complex comprised

32
00:01:44,650 --> 00:01:46,310

of six crew members --

33
00:01:46,310 --> 00:01:49,270
the Commander of
Expedition 35 Chris Hatfield

34
00:01:49,270 --> 00:01:53,430
from the Canadian Space Agency
seated on the right of the logo

35
00:01:53,430 --> 00:01:57,240
in this view, standing behind
him his two colleagues Roman

36
00:01:57,240 --> 00:02:00,530
Romanenko and Doctor
Tom Marshburn arrived

37
00:02:00,530 --> 00:02:02,990
at the station aboard
their Soyuz spacecraft back

38
00:02:02,990 --> 00:02:04,600
in mid-December.

39
00:02:04,600 --> 00:02:10,800
They plan to return home in the
late evening of Monday May 13th,

40
00:02:10,800 --> 00:02:13,400
that's the current
targeted return home time

41
00:02:13,400 --> 00:02:15,400
for those three crew members.

42
00:02:15,400 --> 00:02:19,410
They are enjoying their 105th
day aboard the International

43
00:02:19,410 --> 00:02:23,290
Space Station, 107
days total in space.

44
00:02:23,290 --> 00:02:27,740
The three newest crew members
celebrating one week now aboard

45
00:02:27,740 --> 00:02:29,150
the International Space Station,

46
00:02:29,150 --> 00:02:31,870
and also of course one
week since their launch.

47
00:02:31,870 --> 00:02:35,440
That three additional crew
members of Expedition 35,

48
00:02:35,440 --> 00:02:38,580
made up of US astronaut
Chris Cassidy

49
00:02:38,580 --> 00:02:41,320
and Russian cosmonauts
Pavel Vinogradov

50
00:02:41,320 --> 00:02:44,630
and Alexander Misurkin,
those three arrived

51
00:02:44,630 --> 00:02:47,440
at the station one
week ago, late at night

52
00:02:47,440 --> 00:02:49,210
on Thursday, March 28th.

53
00:02:49,210 --> 00:02:51,140

They plan to stay
aboard the station

54
00:02:51,140 --> 00:02:55,920
until around September 11th is
the current targeted return home

55
00:02:55,920 --> 00:02:59,520
time for those three crew
members, after about 5

56
00:02:59,520 --> 00:03:01,890
and a half months in space.

57
00:03:01,890 --> 00:03:05,730
The six crew members
wake up about 1:00

58
00:03:05,730 --> 00:03:07,570
in the morning central
time each day,

59
00:03:07,570 --> 00:03:09,690
and that was no different today.

60
00:03:09,690 --> 00:03:12,500
They held their normal routine
daily planning conference --

61
00:03:12,500 --> 00:03:14,490
it was very short
this morning --

62
00:03:14,490 --> 00:03:18,700
at 2:30, shortly after
they completed all

63
00:03:18,700 --> 00:03:21,500
of their morning chores
aboard the station.

64
00:03:21,500 --> 00:03:24,390
And they're now headed off
in a different direction

65
00:03:24,390 --> 00:03:27,490
to support all of the
scientific investigations,

66
00:03:27,490 --> 00:03:31,490
the focus of which for Chris
Cassidy today is the burning

67
00:03:31,490 --> 00:03:34,230
and suppression of
solids experiment.

68
00:03:34,230 --> 00:03:36,400
He's essentially reviewing
all of the procedures

69
00:03:36,400 --> 00:03:40,580
for the future work that he'll
be doing with that experiment.

70
00:03:40,580 --> 00:03:42,310
There's a number of
other experiments,

71
00:03:42,310 --> 00:03:45,040
the binary colloids alloy test,

72
00:03:45,040 --> 00:03:49,320
its hardware setup activities
ongoing today aboard the station

73
00:03:49,320 --> 00:03:50,250
as well.

74

00:03:50,250 --> 00:03:52,830
The Russian cosmonauts
over in the Russian segment

75
00:03:52,830 --> 00:03:57,600
of the station have continued to
review documents in preparation

76
00:03:57,600 --> 00:04:03,150
for a Russian-based spacewalk
scheduled for mid-April.

77
00:04:03,150 --> 00:04:06,480
And of course the crew
members spend time with all

78
00:04:06,480 --> 00:04:09,920
of their normal activities,
housekeeping chores,

79
00:04:09,920 --> 00:04:11,700
and exercise routines

80
00:04:11,700 --> 00:04:15,900
to maintain their cardiovascular
musculoskeletal systems

81
00:04:15,900 --> 00:04:19,540
for their long duration
stays in space.

82
00:04:19,540 --> 00:04:21,960
So life aboard the
station continues,

83
00:04:21,960 --> 00:04:24,270
and here on the ground
the teams have continued

84
00:04:24,270 --> 00:04:28,120

with the activities
associated with continuing

85
00:04:28,120 --> 00:04:31,530
to activate the new
communications system

86
00:04:31,530 --> 00:04:32,640
on board the station.

87
00:04:32,640 --> 00:04:35,730
Today is day three
of that activity,

88
00:04:35,730 --> 00:04:38,970
which essentially is
continuing with some checkouts

89
00:04:38,970 --> 00:04:43,700
of some video cameras
on board the station,

90
00:04:43,700 --> 00:04:48,010
and of course sets the stage
for the final installation

91
00:04:48,010 --> 00:04:53,010
of the communications
unit number 1,

92
00:04:53,010 --> 00:04:54,580
which will occur
a week from today

93
00:04:54,580 --> 00:05:00,950
on Thursday next
week, April 11th.

94
00:05:00,950 --> 00:05:04,840
So that's the day for the

Expedition 35 crew aboard the

95
00:05:04,840 --> 00:05:09,010
International Space
Station, as the station is