



1  
00:00:01,780 --> 00:00:05,060  
This is mission control Houston,  
welcome to today's ISS update.

2  
00:00:05,060 --> 00:00:07,870  
It is Thursday, March  
seventh 2013.

3  
00:00:07,870 --> 00:00:11,270  
This is a live view inside the  
International Space Station

4  
00:00:11,270 --> 00:00:13,430  
flight control room here at  
the Johnson Space Center.

5  
00:00:13,430 --> 00:00:17,450  
This team today is being led by  
flight director Mike Lammers,

6  
00:00:17,450 --> 00:00:20,400  
today's Capcom serving  
beside him is Leslie Ringo,

7  
00:00:20,400 --> 00:00:22,990  
and she will be the voice of  
to the crew of Expedition 34

8  
00:00:22,990 --> 00:00:25,130  
on board the orbiting complex.

9  
00:00:25,130 --> 00:00:29,500  
The crew has had a busy  
last few days so working

10  
00:00:29,500 --> 00:00:31,610  
on quite a variety  
of experiments

11

00:00:31,610 --> 00:00:33,700  
and routine maintenance tasks,

12

00:00:33,700 --> 00:00:36,230  
inside the International  
Space Station,

13

00:00:36,230 --> 00:00:38,290  
but also outside as well.

14

00:00:38,290 --> 00:00:40,240  
After we went off  
the air Yesterday

15

00:00:40,240 --> 00:00:43,630  
around one p.m. central time,  
ground commands were sent

16

00:00:43,630 --> 00:00:46,700  
to the International  
Space Station robotic arm,

17

00:00:46,700 --> 00:00:50,640  
it was instructed to go inside  
reach inside the trunk section

18

00:00:50,640 --> 00:00:54,700  
of the SpaceX Dragon vehicle and  
retrieve these two grapple bars

19

00:00:54,700 --> 00:00:57,780  
that were flown up to the  
orbiting complex inside this

20

00:00:57,780 --> 00:01:01,010  
unpressurized section  
of this cargo vehicle.

21

00:01:01,010 --> 00:01:04,240  
Everything went according to

plan and then just a few minutes

22

00:01:04,240 --> 00:01:07,040  
for your ground teams were able  
to remove those grapple bars

23

00:01:07,040 --> 00:01:10,050  
from Dragon and to  
get them installed

24

00:01:10,050 --> 00:01:12,120  
on it payload attachment point

25

00:01:12,120 --> 00:01:13,980  
on the station's  
mobile base structure.

26

00:01:13,980 --> 00:01:16,590  
That is where they will  
remain until the summer

27

00:01:16,590 --> 00:01:18,490  
when they will be  
retrieved during the first

28

00:01:18,490 --> 00:01:21,040  
of two spacewalks are  
planned for the crew.

29

00:01:21,040 --> 00:01:24,680  
Chris Cassidy and Luca  
will go outside probably

30

00:01:24,680 --> 00:01:28,370  
around July time frame to  
retrieve those grapple bars

31

00:01:28,370 --> 00:01:31,450  
as one of the tasks they will  
be doing and will move them

32

00:01:31,450 --> 00:01:34,810  
over to the S-1 in P1 truss  
this on the immediate left

33

00:01:34,810 --> 00:01:38,590  
and right-hand side of  
the station's structure

34

00:01:38,590 --> 00:01:40,840  
and that is really will  
be stored will permanently

35

00:01:40,840 --> 00:01:43,700  
and told her needed  
to possibly remove one

36

00:01:43,700 --> 00:01:46,160  
of the station's radiator parts

37

00:01:46,160 --> 00:01:48,710  
that are outside the  
space station itself.

38

00:01:48,710 --> 00:01:50,840  
All went according  
to plan yesterday

39

00:01:50,840 --> 00:01:53,400  
that ground commanded  
robotic operation went off

40

00:01:53,400 --> 00:01:55,620  
without a hitch.

41

00:01:55,620 --> 00:01:58,250  
Inside the space station, there  
is some maintenance taking place

42

00:01:58,250 --> 00:02:00,000  
on the the carbon  
dioxide removal assembly.

43  
00:02:00,000 --> 00:02:02,650  
Theirs is two of these  
inside space station.

44  
00:02:02,650 --> 00:02:04,360  
This particular one  
of the crews working

45  
00:02:04,360 --> 00:02:07,790  
on is inside the  
tranquility node.

46  
00:02:07,790 --> 00:02:11,430  
The crew worked to today to  
relocate that particular CDRA

47  
00:02:11,430 --> 00:02:14,420  
as it is known, over  
to the Kibo laboratory.

48  
00:02:14,420 --> 00:02:16,880  
This is simply to give  
them more room to work.

49  
00:02:16,880 --> 00:02:18,280  
There's quite a bit of equipment

50  
00:02:18,280 --> 00:02:23,180  
and exercise equipment  
inside Tranquility,

51  
00:02:23,180 --> 00:02:26,740  
so to give them more elbow  
room they moved CDRA from there

52  
00:02:26,740 --> 00:02:30,250

to Kibo and once they get  
it set up they are going

53

00:02:30,250 --> 00:02:33,360

to spend a few days  
removing the scrubbing beds

54

00:02:33,360 --> 00:02:34,770

that are part of CDRA.

55

00:02:34,770 --> 00:02:36,960

There are two brand-new  
beds that are flown

56

00:02:36,960 --> 00:02:38,470

up on the Dragon vehicle.

57

00:02:38,470 --> 00:02:41,260

They are going to replace  
both of those and then one

58

00:02:41,260 --> 00:02:42,200

of the beds that  
is going to come

59

00:02:42,200 --> 00:02:46,030

out of this Tranquility  
CDRA is going to be moved

60

00:02:46,030 --> 00:02:48,820

over to the Destiny  
CDRA so some swapping

61

00:02:48,820 --> 00:02:50,530

of the parts going on there.

62

00:02:50,530 --> 00:02:53,500

Some of those used beds  
will come home aboard the

63

00:02:53,500 --> 00:02:54,290

SpaceX flight.

64

00:02:54,290 --> 00:02:56,960

There is also a valve that  
is going to be replaced

65

00:02:56,960 --> 00:03:01,920

that the Tranquility bed,  
Tranquility CDRA as well.

66

00:03:01,920 --> 00:03:03,180

Earlier this morning  
some activities

67

00:03:03,180 --> 00:03:04,630

with Robonaut took place.

68

00:03:04,630 --> 00:03:06,850

The crew watched along as  
ground commands were sent

69

00:03:06,850 --> 00:03:09,370

to checkout Robonaut's arms,

70

00:03:09,370 --> 00:03:11,040

which you can see  
moving around there.

71

00:03:11,040 --> 00:03:15,010

Also Robonaut's vision  
sensors were checked out.

72

00:03:15,010 --> 00:03:18,620

This robot continuing to  
be put through its paces

73

00:03:18,620 --> 00:03:20,290

as the ground teams check

it out and make sure

74

00:03:20,290 --> 00:03:22,890

that is operating  
according to a plan.

75

00:03:22,890 --> 00:03:27,500

The crew that is getting  
ready to come home Kevin Ford,

76

00:03:27,500 --> 00:03:29,160

Oleg Novitskiy and  
Evgeny Tarelkin they are

77

00:03:29,160 --> 00:03:31,870

in their final week aboard the  
International Space Station.

78

00:03:31,870 --> 00:03:34,420

There due for a landing  
on March fourteenth went

79

00:03:34,420 --> 00:03:37,690

through a Soyuz descent  
drill today namely Novitskiy

80

00:03:37,690 --> 00:03:41,480

and Tarelkin were inside  
their Soyuz TMA-06M,

81

00:03:41,480 --> 00:03:45,480

which is a docked there  
to the Poisk module.

82

00:03:45,480 --> 00:03:48,400

They basically reenacted what  
they're going to be doing coming

83

00:03:48,400 --> 00:03:52,080

up in a week as the ground teams

there in Russia followed along

84

00:03:52,080 --> 00:03:55,660  
with them and made sure  
everything was going according

85

00:03:55,660 --> 00:03:56,710  
to plan.

86

00:03:56,710 --> 00:03:59,820  
Here is a look at what is going  
to happen on the fourteenth

87

00:03:59,820 --> 00:04:02,370  
of beginning at 3:45 p.m.  
central time we will have their

88

00:04:02,370 --> 00:04:04,820  
farewell and hatch closure  
coverage beginning here

89

00:04:04,820 --> 00:04:06,290  
on NASA television.

90

00:04:06,290 --> 00:04:08,160  
The actual hatch closure  
itself will take place

91

00:04:08,160 --> 00:04:10,980  
at 4:15 p.m. central time.

92

00:04:10,980 --> 00:04:14,590  
Our second broadcast  
begins at 7:15 p.m. central,

93

00:04:14,590 --> 00:04:17,620  
with undocking coverage from  
here inside mission control,

94

00:04:17,620 --> 00:04:19,250  
and then the undocking  
ticketless

95

00:04:19,250 --> 00:04:23,490  
at 7:30 p.m. central time,  
some 15 minutes after that.

96

00:04:23,490 --> 00:04:27,980  
Then our third broadcast begins  
at 9:45 p.m. central time

97

00:04:27,980 --> 00:04:29,360  
with landing coverage,

98

00:04:29,360 --> 00:04:33,150  
the de-orbit burn will  
replace a 10:04 p.m. central

99

00:04:33,150 --> 00:04:37,560  
and landing will take place  
at 10:57 p.m. central time.

100

00:04:37,560 --> 00:04:40,470  
So a fairly quick turnaround  
for your de-orbit burn

101

00:04:40,470 --> 00:04:41,580  
down to the landing coverage.

102

00:04:41,580 --> 00:04:45,540  
That is three 9:57 a.m. the next  
morning on March fifteenth there

103

00:04:45,540 --> 00:04:49,230  
in Kazakhstan, quite a chilly  
morning will be greeting this

104

00:04:49,230 --> 00:04:52,050  
crew as get back on Earth with

the temperatures being probably

105

00:04:52,050 --> 00:04:55,660

in the twenties climbing up to  
the thirties during the day.

106

00:04:55,660 --> 00:04:58,920

Meanwhile, the crew that  
is getting ready to launch

107

00:04:58,920 --> 00:05:01,300

to the station Pavel  
Vinogradov, Alexander Misurkin,

108

00:05:01,300 --> 00:05:03,860

Chris Cassidy they've  
been undergoing final

109

00:05:03,860 --> 00:05:07,080

and the activities and  
training simulation runs there

110

00:05:07,080 --> 00:05:09,260

at the Gagarin Cosmonaut  
Training Center,

111

00:05:09,260 --> 00:05:15,180

they had their all traditional  
news conference there at GCTC

112

00:05:15,180 --> 00:05:18,150

in Star City, Russia and  
they travel to Red Square

113

00:05:18,150 --> 00:05:19,790

in Moscow today where  
they laid flowers

114

00:05:19,790 --> 00:05:24,220

at the Kremlin wall were several

Russian space icons are buried.

115

00:05:24,220 --> 00:05:27,380

That is part of a traditional  
of prelaunch activities

116

00:05:27,380 --> 00:05:30,860

as this crew gets ready to head  
up to the station on March 28.

117

00:05:30,860 --> 00:05:35,000

As a final note, on board the  
space station today Expedition

118

00:05:35,000 --> 00:05:39,180

34 has several different Earth  
observation opportunities,

119

00:05:39,180 --> 00:05:41,900

coastal wetlands  
around the Caspian Sea

120

00:05:41,900 --> 00:05:43,270

that they have a  
chance to look at.

121

00:05:43,270 --> 00:05:45,840

They will be flying over  
Moldova, they have a chance

122

00:05:45,840 --> 00:05:48,030

to capture that if  
they have the time.

123

00:05:48,030 --> 00:05:51,310

They will be flying over  
Armenia and Mount Ararat

124

00:05:51,310 --> 00:05:53,380

which is a famous

mountain in that area.

125

00:05:53,380 --> 00:05:56,380

And finally they will be flying  
over the state of Georgia

126

00:05:56,380 --> 00:06:00,100

in the United States and the  
Altamaha River, which is one

127

00:06:00,100 --> 00:06:02,200

of the largest and  
least developed rivers

128

00:06:02,200 --> 00:06:03,250

on the East Coast.

129

00:06:03,250 --> 00:06:07,180

Of course you can log on to your  
well thought [eol.jsc.nasa.gov](http://eol.jsc.nasa.gov),

130

00:06:07,180 --> 00:06:11,780

once again [eol.jsc.nasa.gov](http://eol.jsc.nasa.gov)  
to take a look at any