
AFT

1
00:00:00,906 --> 00:00:04,086
This is Mission Control Houston
welcome to today's ISS update.

2
00:00:04,086 --> 00:00:06,866
It is Monday, March 4, 2013.

3
00:00:07,236 --> 00:00:10,376
The crew of Expedition 34
onboard the station is busy

4
00:00:10,376 --> 00:00:12,686
working on quite a bit
of transfer work today.

5
00:00:12,686 --> 00:00:13,736
Of course the big news is

6
00:00:13,736 --> 00:00:16,986
that the SpaceX Dragon
spacecraft has arrived

7
00:00:16,986 --> 00:00:17,566
at the station.

8
00:00:17,566 --> 00:00:21,586
It launched last Friday at
10:10 a.m. Eastern time,

9
00:00:21,586 --> 00:00:23,816
that was 9:10 a.m. Central time.

10
00:00:24,016 --> 00:00:25,816
Dragon spent two days heading

11
00:00:25,816 --> 00:00:27,896
up to the International
Space Station.

12
00:00:27,896 --> 00:00:30,106
It performed a rendezvous
and docking

13
00:00:30,106 --> 00:00:34,286
with the orbiting
complex yesterday,

14
00:00:34,286 --> 00:00:36,706
Sunday at 4:31 a.m.
Central time.

15
00:00:37,066 --> 00:00:39,166
The crew of Expedition
34 was working

16
00:00:39,406 --> 00:00:41,976
at a robotics workstation down
in the cupola to take a look

17
00:00:41,976 --> 00:00:43,426
at Dragon as it closed in.

18
00:00:43,896 --> 00:00:44,756
They had control

19
00:00:44,756 --> 00:00:48,006
of the station's 58 foot-long
robotic arm as they got ready

20
00:00:48,006 --> 00:00:49,636
to reach out and
grab on to Dragon.

21
00:00:50,306 --> 00:00:52,916
The actual installation,
which was a ground command,

22
00:00:53,476 --> 00:00:57,156

took place at 8:56 a.m.
Eastern and then the crew opened

23
00:00:57,156 --> 00:01:00,016
up the hatches of Dragon
just a few hours later

24
00:01:00,016 --> 00:01:02,106
at 1:14 p.m. Eastern time.

25
00:01:02,906 --> 00:01:06,786
Dragon is bringing up
1,268 pounds of supplies

26
00:01:06,786 --> 00:01:08,996
and science operations
to the crew.

27
00:01:09,116 --> 00:01:13,376
It's going to be taking home
2,668 pounds of supplies.

28
00:01:14,066 --> 00:01:15,696
The crew's been busy
all day today

29
00:01:15,696 --> 00:01:16,746
and they will continue working

30
00:01:16,746 --> 00:01:19,076
over the next several days
getting everything unloaded

31
00:01:19,556 --> 00:01:21,336
out of this cargo craft.

32
00:01:21,336 --> 00:01:23,586
Kevin Ford, the commander
of Expedition 34,

33
00:01:23,586 --> 00:01:26,926
called down giving an update
they have finished moving

34
00:01:26,926 --> 00:01:27,776
the GLACIERS.

35
00:01:28,106 --> 00:01:30,836
There were two GLACIER freezers
flown up to the station,

36
00:01:30,836 --> 00:01:32,926
one that was powered
and was full of science.

37
00:01:33,406 --> 00:01:35,886
That'll be packed full of
return items and stored back

38
00:01:35,886 --> 00:01:38,686
on to Dragon at the
conclusion of the mission.

39
00:01:39,386 --> 00:01:41,646
There is an unpowered GLACIER
that was also flown up.

40
00:01:41,646 --> 00:01:45,506
That will simply be stored
aboard the International Space

41
00:01:45,506 --> 00:01:48,206
Station, also quite
a bit of cold bags.

42
00:01:48,206 --> 00:01:50,476
These are just basically
sample bags that are used

43

00:01:50,476 --> 00:01:54,706
to put scientific experiments
into and returned back to Earth.

44
00:01:54,706 --> 00:01:57,946
They're also going to be setting
up one of the experiments

45
00:01:57,946 --> 00:01:58,906
that flew up to Dragon.

46
00:01:58,906 --> 00:02:02,536
It's going to be taking place
during the almost 3 weeks

47
00:02:02,536 --> 00:02:05,156
that Dragon will be docked to
the International Space Station.

48
00:02:06,286 --> 00:02:09,306
One of the experiments
that is being flown

49
00:02:09,306 --> 00:02:10,486
up there is what's
called the Coarsening

50
00:02:10,486 --> 00:02:12,346
and Solid Liquid
Mixtures Number Three.

51
00:02:12,346 --> 00:02:14,456
This is a materials
science investigation

52
00:02:14,456 --> 00:02:17,316
that will take place while
Dragon is docked to the station.

53
00:02:18,426 --> 00:02:21,736

It takes a look at the growth
and solidification processes

54
00:02:21,736 --> 00:02:24,886
in lead, tin and
solid liquid mixtures

55
00:02:24,886 --> 00:02:28,016
that contain a small amount of
what's called tin branch-like,

56
00:02:28,016 --> 00:02:31,446
or dendritic structures,
or dendrites.

57
00:02:32,246 --> 00:02:35,456
What this will do is
help ground operations

58
00:02:35,456 --> 00:02:37,476
as they make different
types of metals

59
00:02:37,476 --> 00:02:40,366
and higher-quality products
as they study the differences

60
00:02:40,366 --> 00:02:41,956
between what you
see in microgravity

61
00:02:41,956 --> 00:02:44,256
versus what happens
on the ground.

62
00:02:44,256 --> 00:02:45,756
So that is CSLM number three.

63
00:02:45,756 --> 00:02:48,176
They're going to get that set

up later on this afternoon

64
00:02:48,516 --> 00:02:49,696
and that experiment will run

65
00:02:49,696 --> 00:02:51,646
for about 20 days
while Dragon is docked

66
00:02:51,646 --> 00:02:53,126
to the International
Space Station.

67
00:02:53,126 --> 00:02:56,036
Of course to read more
about CSLM number three,

68
00:02:56,886 --> 00:02:59,116
or the rest of the science
that Dragon has brought up,

69
00:02:59,526 --> 00:03:01,746
or any of the other
Expedition 34 operations,

70
00:03:01,746 --> 00:03:05,666
just log on to the NASA
website at nasa.gov/station

71
00:03:05,666 --> 00:03:07,576
and take a look at
Research and Technology.

72
00:03:08,466 --> 00:03:11,706
While the crew's busy working
on Dragon, they are also,

73
00:03:11,706 --> 00:03:14,156
half of them, getting
ready to come home coming

74
00:03:14,156 --> 00:03:17,496
up in a little more
than a week-and-a-half.

75
00:03:17,496 --> 00:03:20,926
Kevin Ford, Oleg Novitskiy and
Evgeny Tarelkin getting close

76
00:03:20,926 --> 00:03:22,446
to wrapping up close

77
00:03:22,446 --> 00:03:24,736
to six months onboard
International Space Station.

78
00:03:24,736 --> 00:03:27,766
Their undocking will
take place on March 14

79
00:03:28,056 --> 00:03:30,116
at 7:30 p.m. Central time.

80
00:03:30,646 --> 00:03:33,526
That'll be 6:30 a.m. on
March 15 there in Kazakhstan

81
00:03:33,526 --> 00:03:35,086
which is the place
where they will land.

82
00:03:35,656 --> 00:03:37,236
Their Soyuz will undock.

83
00:03:37,236 --> 00:03:39,156
It is the Soyuz TMA-06M.

84
00:03:39,156 --> 00:03:41,926
It will undock at

7:30 p.m. Central time

85
00:03:42,326 --> 00:03:45,426
with the deorbit burn at
10:04 p.m. Central time

86
00:03:45,426 --> 00:03:49,716
and then landing will take place
at 10:57 p.m. Central time.

87
00:03:49,716 --> 00:03:52,506
Again that will be the next
day in Kazakhstan, March 15.

88
00:03:53,166 --> 00:03:56,346
Those times will be 9:04
a.m. Kazakhstan time