
CATO

1
00:00:00,766 --> 00:00:09,575
[Music]

2
00:00:11,710 --> 00:00:14,080
>> Good morning from
NASA's Johnson Space Center.

3
00:00:14,080 --> 00:00:15,714
this is Mission Control Houston.

4
00:00:15,714 --> 00:00:17,016
You're looking

5
00:00:17,016 --> 00:00:19,285
at the International Space
Station Flight Control Room

6
00:00:19,285 --> 00:00:24,457
on this Thursday morning,
September 19, 2013.

7
00:00:24,457 --> 00:00:26,392
A team of flight
controllers watching

8
00:00:26,392 --> 00:00:29,361
over systems aboard the
International Space Station

9
00:00:29,361 --> 00:00:33,899
as this team has been on console
since early this morning,

10
00:00:33,899 --> 00:00:36,168
being led by Flight
Director, Mike Lammers.

11
00:00:36,168 --> 00:00:40,739
He is joined on console by

Leslie Ringo to his right

12
00:00:40,739 --> 00:00:42,708
who is handling the
communications link

13
00:00:42,708 --> 00:00:44,610
between this team and the crew

14
00:00:44,610 --> 00:00:47,513
on board the International
Space Station.

15
00:00:47,513 --> 00:00:52,017
That crew of Expedition
37 is comprised

16
00:00:52,017 --> 00:00:56,989
of Commander Fyodor Yurchikhin,
along with two flight engineers,

17
00:00:56,989 --> 00:01:01,060
Luca Parmitano from the European
Space Agency represented

18
00:01:01,060 --> 00:01:05,331
by the Italian Space Agency,
and US Astronaut, Karen Nyberg

19
00:01:05,331 --> 00:01:08,033
from the United States,
obviously.

20
00:01:08,033 --> 00:01:12,004
These two crew members, along
with Commander Yurchikhin

21
00:01:12,004 --> 00:01:16,876
from the Russian Space Agency
representing Russia, of course,

22
00:01:16,876 --> 00:01:18,677
have been in space now for --

23
00:01:18,677 --> 00:01:22,481
they're on their 114th day
aboard the International Space

24
00:01:22,481 --> 00:01:26,585
Station after their single
day launch to rendezvous

25
00:01:26,585 --> 00:01:28,587
on their Soyuz spacecraft,

26
00:01:28,587 --> 00:01:33,726
known as a TMA-O9M
vehicle, back on May 28th.

27
00:01:33,726 --> 00:01:36,762
They plan to return
home on November 10th

28
00:01:36,762 --> 00:01:40,366
after 166 days in space.

29
00:01:40,366 --> 00:01:43,869
They have focused
their attention today

30
00:01:43,869 --> 00:01:46,705
on experiment work, focusing

31
00:01:46,705 --> 00:01:50,276
around the human research
facility of the station

32
00:01:50,276 --> 00:01:53,345
with blood and urine

sample, periodic taking,

33
00:01:53,345 --> 00:01:56,282
along with some additional
ocular health

34
00:01:56,282 --> 00:02:00,019
for the crew members and
some ultrasound training

35
00:02:00,019 --> 00:02:03,455
for the crew members, along
with some data takes in support

36
00:02:03,455 --> 00:02:05,758
of the ongoing efforts

37
00:02:05,758 --> 00:02:08,427
to understand how
the human body reacts

38
00:02:08,427 --> 00:02:11,230
to the microgravity
environment of space and changes

39
00:02:11,230 --> 00:02:14,099
over long duration
periods of time.

40
00:02:14,099 --> 00:02:17,269
The crew members also have
performed some routine

41
00:02:17,269 --> 00:02:19,705
housekeeping chores
around the station

42
00:02:19,705 --> 00:02:23,042
and have also been
updated on the progress

43
00:02:23,042 --> 00:02:25,744
of a new cargo vehicle
on its way

44
00:02:25,744 --> 00:02:27,713
to the International
Space Station.

45
00:02:27,713 --> 00:02:33,953
Orbital Sciences Cygnus
spacecraft launched just before

46
00:02:33,953 --> 00:02:39,959
11 am eastern time on Wednesday,
on a trajectory profile

47
00:02:39,959 --> 00:02:44,530
to the southeast that puts it
in line, on the same plane,

48
00:02:44,530 --> 00:02:47,233
if you will, with the
International Space Station,

49
00:02:47,233 --> 00:02:50,269
leading toward an
arrival and birthing

50
00:02:50,269 --> 00:02:54,273
to the complexes Harmony nadir
port, the earth facing port

51
00:02:54,273 --> 00:02:58,644
on the Harmony node,
on Sunday morning

52
00:02:58,644 --> 00:03:01,247
with a targeted birthing
time of just

53
00:03:01,247 --> 00:03:04,984
about 6:25 am, U.S.
Central time.

54
00:03:04,984 --> 00:03:09,722
All parameters on the Cygnus
are in excellent shape.

55
00:03:09,722 --> 00:03:15,828
The vehicle has performed a
number of tests on its way

56
00:03:15,828 --> 00:03:18,163
to the station over the
course of the several days,

57
00:03:18,163 --> 00:03:22,201
including so far, a position
and attitude control test,

58
00:03:22,201 --> 00:03:25,571
a Free Drift test and an
Active Abort demonstration.

59
00:03:25,571 --> 00:03:29,441
All of those proves
the navigation

60
00:03:29,441 --> 00:03:32,845
of the spacecraft using
global positioning system

61
00:03:32,845 --> 00:03:38,050
and also puts it in
good shape to support

62
00:03:38,050 --> 00:03:39,918
that rendezvous activity.

63
00:03:39,918 --> 00:03:43,055
Over the course of the next
several days, a continued series

64
00:03:43,055 --> 00:03:45,924
of rendezvous maneuvers will
take place using thrusters

65
00:03:45,924 --> 00:03:49,828
on the cargo vehicle before
it arrives at the station

66
00:03:49,828 --> 00:03:51,997
in the wee hours on Sunday.

67
00:03:51,997 --> 00:03:56,368
So the crew onboard is also
getting ready for its arrival

68
00:03:56,368 --> 00:04:01,807
with an installation of the
robotic work station software

69
00:04:01,807 --> 00:04:06,845
to follow along and be ready
for the robotic capture

70
00:04:06,845 --> 00:04:09,682
that will be handled primarily

71
00:04:09,682 --> 00:04:12,418
by Luca Parmitano
aboard the station.

72
00:04:12,418 --> 00:04:16,322
So the crew, obviously
staying very busy onboard

73
00:04:16,322 --> 00:04:18,991

and greatly anticipating
the arrival

74
00:04:18,991 --> 00:04:21,660
of that new cargo vehicle,

75
00:04:21,660 --> 00:04:25,731
the first ever space station
mission launched from the coast