

INTERNATIONAL SPACE STATION
EXPEDITION 37



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36

1
00:00:08,007 --> 00:00:10,109
>> This is Mission
Control Houston here

2
00:00:10,109 --> 00:00:13,379
in the International Space
Station Flight Control Room.

3
00:00:13,379 --> 00:00:15,681
A team of flight
controllers is watching

4
00:00:15,681 --> 00:00:19,919
over systems aboard
the orbiting complex

5
00:00:19,919 --> 00:00:22,855
with the Expedition
37 crew on board

6
00:00:22,855 --> 00:00:26,592
as they await the September
25th launch and arrival

7
00:00:26,592 --> 00:00:30,696
of three new crew members
to augment their own crew.

8
00:00:30,696 --> 00:00:33,032
Fyodor Yurchikhin,
Luca Parmitano,

9
00:00:33,032 --> 00:00:35,267
and Karen Nyberg
practiced robotics ahead

10
00:00:35,267 --> 00:00:39,171
of their new cargo spacecraft,
the G. David Low Cygnus,

11
00:00:39,171 --> 00:00:41,474
which is scheduled to
arrive early Sunday morning

12
00:00:41,474 --> 00:00:44,210
with 1,300 pounds of cargo.

13
00:00:44,210 --> 00:00:45,978
Following its launch
Wednesday morning

14
00:00:45,978 --> 00:00:47,980
from the mid-Atlantic Space Port

15
00:00:47,980 --> 00:00:51,050
at NASA's Wallops Flight
Facility along the eastern shore

16
00:00:51,050 --> 00:00:54,386
of Virginia, the Cygnus has
performed near flawlessly

17
00:00:54,386 --> 00:00:58,624
in its checkouts and maneuvers
in route to the station.

18
00:00:58,624 --> 00:01:01,660
The rendezvous' activities
began early Sunday,

19
00:01:01,660 --> 00:01:05,464
and NASA TV will cover the
final hours of approach, grapple

20
00:01:05,464 --> 00:01:09,335
and birthing to the station's
Harmony Node 2 Earth facing

21
00:01:09,335 --> 00:01:11,337

docking port.

22

00:01:11,337 --> 00:01:15,241

This week Parmitano, who will operate the Canadarm2 robotic

23

00:01:15,241 --> 00:01:18,911

arm from the cupola, and Nyberg, trained and refreshed

24

00:01:18,911 --> 00:01:21,480

on all the procedures ahead of the capture,

25

00:01:21,480 --> 00:01:23,816

which will occur once Cygnus is within reach

26

00:01:23,816 --> 00:01:27,353

at a distance of 35 feet.

27

00:01:27,353 --> 00:01:29,922

Cygnus represents the culmination of many years

28

00:01:29,922 --> 00:01:32,858

of work to supplement the cargo delivery capability

29

00:01:32,858 --> 00:01:35,928

to the station with commercial customers.

30

00:01:35,928 --> 00:01:39,431

And with arrival Orbital Sciences Corporation will join

31

00:01:39,431 --> 00:01:42,401

SpaceX, along with Russia's Progress,

32

00:01:42,401 --> 00:01:46,338

European Space Agency's
ATV, and Japan's HTV

33

00:01:46,338 --> 00:01:50,809

in maintaining the outpost with
supplies, hardware, experiments,

34

00:01:50,809 --> 00:01:54,180

and logistics on a
consistent basis.

35

00:01:54,180 --> 00:01:57,416

The launch from Virginia was
the first station US mission

36

00:01:57,416 --> 00:02:00,719

beginning from a location
other than Florida.

37

00:02:02,488 --> 00:02:06,091

The three crew members on board
also were eagerly anticipating

38

00:02:06,091 --> 00:02:10,529

the arrival of the Expedition
37 and 38 crew, which now is

39

00:02:10,529 --> 00:02:11,964

at the Baikonur Cosmodrome

40

00:02:11,964 --> 00:02:15,034

in Kazakhstan awaiting
their launch next Wednesday,

41

00:02:15,034 --> 00:02:17,002

September 25th.

42

00:02:17,002 --> 00:02:21,574
Oleg Kotov, Sergey Ryazanskiy,
and Michael Hopkins launch

43
00:02:21,574 --> 00:02:26,312
at 3:58 p.m. Central Time
and arrive four orbits later

44
00:02:26,312 --> 00:02:31,317
at about 9:48 p.m. With
everything else going on,

45
00:02:31,317 --> 00:02:34,954
the crew also conducted
science investigations focusing

46
00:02:34,954 --> 00:02:36,822
on human research.

47
00:02:36,822 --> 00:02:39,959
Nyberg and Parmitano served
as doctor and patient,

48
00:02:39,959 --> 00:02:42,528
gathering urine and blood
samples for preservation

49
00:02:42,528 --> 00:02:45,965
in the hi-tech freezer on
board for later analysis

50
00:02:45,965 --> 00:02:47,499
by investigators on the ground

51
00:02:47,499 --> 00:02:50,569
to help understand how
different crew members adapt

52
00:02:50,569 --> 00:02:53,906
to space travel over

long periods.

53

00:02:53,906 --> 00:02:56,909

The two also performed
eye exams on each other

54

00:02:56,909 --> 00:02:58,978

to measure any changes
that may occur

55

00:02:58,978 --> 00:03:01,614

in eye pressure and
visual acuity.

56

00:03:01,614 --> 00:03:05,150

Now the crew will set up
cameras and equipment needed

57

00:03:05,150 --> 00:03:09,088

in the robotic work station
ahead of Sunday's Cygnus arrival

58

00:03:09,088 --> 00:03:12,391

and have some off-duty time
Saturday before Sunday's full

59

00:03:12,391 --> 00:03:15,894

day supporting the cargo
vehicle's arrival following its

60

00:03:15,894 --> 00:03:19,632

launch atop an Antares
rocket Wednesday.

61

00:03:19,632 --> 00:03:21,533

Next week the crew
will spend a good deal

62

00:03:21,533 --> 00:03:23,435

of time unloading Cygnus

