INTERNATIONAL SPACE STATION
EXPEDITION 37

KAREN NYBERG
FLIGHT ENGINEER

FYODOR YURCHIKHIN
COMMANDER

LUCA PARMITANO
FLIGHT ENGINEER

SOYUZ
35

1
00:00:10,242 --> 00:00:12,378
>> Good day from NASA's
Johnson Space Center.

2
00:00:12,378 --> 00:00:13,946
This is Mission Control Houston.

3
00:00:13,946 --> 00:00:15,247
You're looking

4
00:00:15,247 --> 00:00:17,450
at the International Space
Station Flight Control Room

5
00:00:17,450 --> 00:00:22,021
on this Tuesday, September
17th, 2013 as a team

6
00:00:22,021 --> 00:00:24,190
of flight controllers
watches over all

7
00:00:24,190 --> 00:00:26,792
of the systems aboard the
International Space Station

8
00:00:26,792 --> 00:00:29,895
orbiting 260 miles
above the Earth.

9
00:00:29,895 --> 00:00:32,231
On duty here in the
flight control room

10
00:00:32,231 --> 00:00:35,201
and overseeing the
team throughout much

11
00:00:35,201 --> 00:00:39,705

of the daytime hours is Flight
Director Tomas Gonzalez-Torres.

12
00:00:39,705 --> 00:00:43,843
He is watching over this
team until late afternoon.

13
00:00:43,843 --> 00:00:46,078
He is joined by Howe
Goetzleman [phonetic],

14
00:00:46,078 --> 00:00:48,147
a veteran spacecraft
communicator

15
00:00:48,147 --> 00:00:53,586
for the International Space
Station team providing the voice

16
00:00:53,586 --> 00:00:55,121
that you hear most of the time.

17
00:00:55,121 --> 00:00:58,324
The interface between the
team here in Mission Control

18
00:00:58,324 --> 00:01:01,460
and the crew on board the
International Space Station.

19
00:01:01,460 --> 00:01:04,663
The crew is made up of three
crew members right now,

20
00:01:04,663 --> 00:01:08,033
of course, as the
Expedition 37 crew.

21
00:01:08,033 --> 00:01:11,337
Karen Nyberg is serving as

one of the flight engineers,

22
00:01:11,337 --> 00:01:13,472
along with Luca Parmitano.

23
00:01:13,472 --> 00:01:18,244
Those two are supporting science
activities in the US segment

24
00:01:18,244 --> 00:01:20,779
of the International
Space Station,

25
00:01:20,779 --> 00:01:23,549
which includes three
laboratories,

26
00:01:23,549 --> 00:01:27,853
the Destiny Laboratory,
the Columbus Laboratory,

27
00:01:27,853 --> 00:01:32,458
and the Kibo Module, which is
the Japanese compliment addition

28
00:01:32,458 --> 00:01:34,894
to the International
Space Station as well.

29
00:01:34,894 --> 00:01:38,430
Overseeing the Expedition
37 crew is Commander

30
00:01:38,430 --> 00:01:39,999
Fyodor Yurchikihn.

31
00:01:39,999 --> 00:01:44,069
He is on his fourth
flight into space,

32
00:01:44,069 --> 00:01:45,871
his third long-duration mission.

33
00:01:45,871 --> 00:01:50,743
He served on a shuttle mission,
STS 112, and then he served

34
00:01:50,743 --> 00:01:56,949
on two expeditions, Expedition
15, and Expedition 24, 25.

35
00:01:56,949 --> 00:01:59,785
It's Luca Parmitano's
first flight into space,

36
00:01:59,785 --> 00:02:03,856
as he is the 209th individual
aboard the International

37
00:02:03,856 --> 00:02:05,090
Space Station.

38
00:02:05,090 --> 00:02:09,094
Karen Nyberg support her
first long-duration flight.

39
00:02:09,094 --> 00:02:14,767
But she did fly previously on
a shuttle mission, STS 124,

40
00:02:14,767 --> 00:02:18,637
the flight that delivered
that Japanese laboratory Kibo,

41
00:02:18,637 --> 00:02:20,806
the Japanese word for hope,

42
00:02:20,806 --> 00:02:26,679
to the International Space

Station back in March of 2008.

43
00:02:26,679 --> 00:02:29,648
The crew members on board
are supporting a number

44
00:02:29,648 --> 00:02:30,983
of tasks throughout the day.

45
00:02:30,983 --> 00:02:33,385
It's quite a busy
day for the crew.

46
00:02:33,385 --> 00:02:35,721
One of those tasks
is to continue

47
00:02:35,721 --> 00:02:41,760
with some onboard training
associated with the arrival,

48
00:02:41,760 --> 00:02:47,366
grapple and birthing of the
upcoming Cygnus cargo vehicle

49
00:02:47,366 --> 00:02:50,436
that will be delivered to the
International Space Station

50
00:02:50,436 --> 00:02:53,872
at the end of the week following
hopefully a safe launch

51
00:02:53,872 --> 00:02:55,207
on Wednesday.

52
00:02:55,207 --> 00:02:57,776
Parmitano and Nyberg
have been training

53
00:02:57,776 --> 00:03:03,182
with the Station's robotic arm
to test some offset grapples

54
00:03:03,182 --> 00:03:07,253
that they could encounter
to see how that can handle

55
00:03:07,253 --> 00:03:11,123
that through the robotic work
station on the Station as well.

56
00:03:11,123 --> 00:03:17,129
They're using the Leonardo
permanent multi-purpose modules

57
00:03:17,129 --> 00:03:21,533
grapple fixture as a target
throughout that training.

58
00:03:21,533 --> 00:03:27,206
Additionally, the crew members,
particular Karen Nyberg,

59
00:03:27,206 --> 00:03:32,611
has been working in the fluids
integrated rack on the station

60
00:03:32,611 --> 00:03:36,615
in the microgravity
science glove box to set

61
00:03:36,615 --> 00:03:38,751
up for some experiment
work associated

62
00:03:38,751 --> 00:03:44,223
with the Advanced
Colloids Experiment.

63
00:03:44,223 --> 00:03:49,228
The rack that she had to
work in has to be rotated

64
00:03:49,228 --> 00:03:54,233
and repositioned
so that she can set

65
00:03:54,233 --> 00:03:58,804
up for the payload
activity, which is upcoming.

66
00:03:58,804 --> 00:04:03,942
An additionally, the crew
members have spent a good deal

67
00:04:03,942 --> 00:04:05,511
of time in the first part

68
00:04:05,511 --> 00:04:11,116
of their day supporting some
periodic ocular health training.

69
00:04:11,116 --> 00:04:14,553
Taking the, basically
the pressure,

70
00:04:14,553 --> 00:04:17,856
measuring the pressure
periodically in their eyes,

71
00:04:17,856 --> 00:04:26,932
as well as taking turns
working with the training

72
00:04:27,966 --> 00:04:29,702
with the ocular tonometry
instrument.

73

00:04:29,702 --> 00:04:34,540
Which essentially is a procedure
that's used to determine

74
00:04:34,540 --> 00:04:37,309
that inter-ocular
pressure of the eyes.

75
00:04:37,309 --> 00:04:40,713
So a good deal of time
working with that as well

76
00:04:40,713 --> 00:04:43,382
for the crew members on board.

77
00:04:43,382 --> 00:04:45,484
In addition to that, obviously,

78
00:04:45,484 --> 00:04:50,489
on board routine maintenance
activities aboard the station.

79
00:04:50,489 --> 00:04:55,194
But the crew members are
greatly anticipating the launch

80
00:04:55,194 --> 00:04:57,096
of the newest cargo module

81
00:04:57,096 --> 00:05:00,432
to the International Space
Station scheduled for Wednesday.

82
00:05:00,432 --> 00:05:03,902
They'll end their day as usual
with a discussion with all

83
00:05:03,902 --> 00:05:06,138
of the teams on the
ground associated

84
00:05:06,138 --> 00:05:08,507
with what's been going
on throughout the day,

85
00:05:08,507 --> 00:05:11,910
and then head to bed about
4:30 in the afternoon.

86
00:05:11,910 --> 00:05:15,647
They'll wake up about
1:00 Wednesday morning

87
00:05:15,647 --> 00:05:17,883
to follow along with
ground on all

88
00:05:17,883 --> 00:05:20,319
of the countdown
activities associated

89
00:05:20,319 --> 00:05:24,289
with the Orbital Sciences
Corporations Antares rocket