Expedition 32/Soyuz 30 (TMA-04M) Landing Crew

Joe Acaba

Expedition 32
Flight Engineer

Gennady Padalka

Exp. 32 Commander
Soyuz Commander

Sergei Revin

Expedition 32
Flight Engineer

1
00:00:02,170 --> 00:00:04,880
Good morning from mission
control Houston and welcome

2
00:00:04,880 --> 00:00:07,770
to today's International
Space Station update.

3
00:00:07,770 --> 00:00:10,060
Joining us here inside of
the flight control room

4
00:00:10,060 --> 00:00:11,700
at the Johnson space
Center in Houston,

5
00:00:11,700 --> 00:00:13,860
Texas the Orbit 2 team currently

6
00:00:13,860 --> 00:00:17,500
on console right now monitoring
the International Space Station

7
00:00:17,500 --> 00:00:19,960
during a very busy time,

8
00:00:19,960 --> 00:00:23,250
seeing a visiting vehicle
departing this morning,

9
00:00:23,250 --> 00:00:25,770
the Japanese HTV vehicle,

10
00:00:25,770 --> 00:00:28,770
which was backed away
just a few hours ago

11
00:00:28,770 --> 00:00:31,640
from the Earth facing

side of the Harmony node.

12
00:00:31,640 --> 00:00:34,660
All eyes on board the
station currently pointed

13
00:00:34,660 --> 00:00:37,500
at this unmanned
cargo craft scheduled

14
00:00:37,500 --> 00:00:40,640
to depart a little bit later
this morning currently attached

15
00:00:40,640 --> 00:00:43,180
to the space station's
robotic arm.

16
00:00:43,180 --> 00:00:46,940
It's been docked to the
station since July 27th

17
00:00:46,940 --> 00:00:51,550
and all will soon release and
back away and then set itself

18
00:00:51,550 --> 00:00:55,250
up for our re-entry trajectory
with the Earth's atmosphere

19
00:00:55,250 --> 00:00:58,800
where it will pass over and
burn up over the Pacific Ocean,

20
00:00:58,800 --> 00:01:01,130
bringing an end to
all the third flight

21
00:01:01,130 --> 00:01:03,680
of this Japanese cargo craft.

22
00:01:04,690 --> 00:01:06,450
Meanwhile, here in
mission control,

23
00:01:06,450 --> 00:01:12,010
the teams being led today by
Flight Director David Korth,

24
00:01:12,010 --> 00:01:14,260
I can see him therein
the white shirt.

25
00:01:14,260 --> 00:01:17,470
Joining him at the Capcom
position is NASA astronaut Cady

26
00:01:17,470 --> 00:01:20,690
Coleman, serving as the voice
communication link between all

27
00:01:20,690 --> 00:01:22,610
or controllers here
on the ground

28
00:01:22,610 --> 00:01:24,620
and astronauts up in space.

29
00:01:24,620 --> 00:01:28,530
Those astronauts right now
are the crew of Expedition 32,

30
00:01:28,530 --> 00:01:30,730
three of which are
scheduled to come home

31
00:01:30,730 --> 00:01:33,220
on this upcoming weekend.

32

00:01:33,220 --> 00:01:36,320
Those three over there on the
right, the one of the middle,

33
00:01:36,320 --> 00:01:39,420
Expedition 32 Commander
Gennady Padalka,

34
00:01:39,420 --> 00:01:41,890
a veteran space flyer
on his fourth flight.

35
00:01:41,890 --> 00:01:45,550
Behind him, on the left,
NASA astronaut Joe Acaba

36
00:01:45,550 --> 00:01:47,990
and all the way on the right
there is Russian cosmonaut

37
00:01:47,990 --> 00:01:49,530
Sergei Revin.

38
00:01:49,530 --> 00:01:52,640
The three have been docked to
the International Space Station

39
00:01:52,640 --> 00:01:56,340
since May 16, scheduled to
land this upcoming Sunday

40
00:01:56,340 --> 00:02:00,340
on their Soyuz TMA-04M
vehicle, as they touchdown

41
00:02:00,340 --> 00:02:02,100
on the steppe of Kazakhstan.

42
00:02:02,100 --> 00:02:04,660
Again, that'll be

coming up this Sunday,

43
00:02:04,660 --> 00:02:07,720
and will leave our other
three crew members onboard the

44
00:02:07,720 --> 00:02:09,670
International Space Station,

45
00:02:09,670 --> 00:02:11,900
Russian cosmonaut
Yuri Malenchenko

46
00:02:11,900 --> 00:02:14,310
and NASA astronaut Suni Williams

47
00:02:14,310 --> 00:02:17,030
and Japanese astronaut
Aki Hoshide.

48
00:02:17,030 --> 00:02:21,020
The three will remain on
board to begin the increment

49
00:02:21,020 --> 00:02:24,930
of Expedition 33, with
Suni Williams there all way

50
00:02:24,930 --> 00:02:26,990
on the left, will be
taking over the position

51
00:02:26,990 --> 00:02:29,510
of commander for that mission.

52
00:02:29,510 --> 00:02:32,200
They will remain on the
station for a few more months

53

00:02:32,200 --> 00:02:35,200
as they continue their stint
onboard the International

54
00:02:35,200 --> 00:02:37,700
Space Station.

55
00:02:37,700 --> 00:02:41,710
Meanwhile on board our
astronauts, many of them focused

56
00:02:41,710 --> 00:02:45,090
around this HTV vehicle as they
work throughout the morning

57
00:02:45,090 --> 00:02:48,720
to prepare for its eventual
demating from that Harmony node.

58
00:02:48,720 --> 00:02:51,440
Joe Acaba, working
earlier this morning to set

59
00:02:51,440 --> 00:02:54,900
up of the robotic workstation
inside of the station's cupola,

60
00:02:54,900 --> 00:03:00,100
then perform of the demate with
the common berthing mechanism.

61
00:03:00,100 --> 00:03:04,720
That demate beginning
about 6:50 a.m. CT today.

62
00:03:04,720 --> 00:03:07,350
Following all these activities
a little bit later he'll be

63
00:03:07,350 --> 00:03:09,920

closing that out and
taking down the workstation.

64
00:03:09,920 --> 00:03:13,700
He'll be at the controls when
they perform the HTV release,

65
00:03:13,700 --> 00:03:16,170
working in conjunction with
robotics controllers down here

66
00:03:16,170 --> 00:03:17,890
on the ground in Houston.

67
00:03:17,890 --> 00:03:21,420
Aside from all this visiting
vehicle activity he's doing

68
00:03:21,420 --> 00:03:24,230
today, he will also make
gathering some more samples

69
00:03:24,230 --> 00:03:27,730
for the human research facility,
as he prepares to come home.

70
00:03:27,730 --> 00:03:30,960
He'll also be doing a ham
radio pass with a school

71
00:03:30,960 --> 00:03:34,730
in Puerto Rico using
just a standard ham radio

72
00:03:34,730 --> 00:03:38,260
to give a chance for students
down on the ground here

73
00:03:38,260 --> 00:03:42,550
at the opportunity to ask

him questions one-on-one.

74
00:03:42,550 --> 00:03:47,330
Our other NASA astronaut Suni
Williams also doing some work

75
00:03:47,330 --> 00:03:49,290
today on that HTV vehicle.

76
00:03:49,290 --> 00:03:53,090
She was working to close out
the vestibule so the connections

77
00:03:53,090 --> 00:03:56,400
between HTV and the
International Space Station.

78
00:03:56,400 --> 00:04:00,730
She also worked to on
install more thermal covers,

79
00:04:00,730 --> 00:04:02,290
continuing some work
she was doing yesterday

80
00:04:02,290 --> 00:04:06,890
with Aki Hoshide, and then
was responsible for depressing

81
00:04:06,890 --> 00:04:11,900
or preparing the vestibule
for HTV's final undocking.

82
00:04:11,900 --> 00:04:14,530
Aside from that today, she will
also be going throughout the

83
00:04:14,530 --> 00:04:16,290
station and taking
some water samples

84
00:04:16,290 --> 00:04:18,860
from the potable water
dispenser, and also some

85
00:04:18,860 --> 00:04:22,650
over in the Russian
service module.

86
00:04:22,650 --> 00:04:24,830
Moving on, Aki Hoshide closing

87
00:04:24,830 --> 00:04:27,920
out that HTV vestibule
alongside Williams and helping

88
00:04:27,920 --> 00:04:30,050
out with the thermal
cover install.

89
00:04:30,050 --> 00:04:34,260
Hrlping man the robotic controls
today alongside Joe Acaba.

90
00:04:34,260 --> 00:04:38,380
She also installed a hardware
command panel inside the

91
00:04:38,380 --> 00:04:41,870
Japanese module, and also the
centerline berthing camera

92
00:04:41,870 --> 00:04:45,190
system, which assists both the
astronauts in the controllers

93
00:04:45,190 --> 00:04:46,190
down here on the ground.

94

00:04:46,190 --> 00:04:50,470
Giving a good solid view the
craft as it is backing away

95
00:04:50,470 --> 00:04:53,430
from its spot on the
International Space Station.

96
00:04:53,430 --> 00:04:56,320
He will also have a chance
to do a ham radio pass,

97
00:04:56,320 --> 00:04:58,940
he did it earlier this
morning, talking with school

98
00:04:58,940 --> 00:05:00,800
in Queensland, Australia.

99
00:05:00,800 --> 00:05:03,980
And then a little bit later this
afternoon he will have an event

100
00:05:03,980 --> 00:05:06,720
with the office of the
Prime Minister of Japan,

101
00:05:06,720 --> 00:05:09,830
inviting the political leader
onboard the International Space

102
00:05:09,830 --> 00:05:14,130
Station, to give him a look at
all what life is like inside

103
00:05:14,130 --> 00:05:16,920
for the Japanese astronaut.

104
00:05:16,920 --> 00:05:19,800
And meanwhile, our three

Russian cosmonauts, starting off

105
00:05:19,800 --> 00:05:23,490
with Gennady Padalka, who is the
current Expedition 32 Commander

106
00:05:23,490 --> 00:05:26,230
and is also scheduled to
come home this Sunday,

107
00:05:26,230 --> 00:05:29,550
are working with of a number of
different biological experiments

108
00:05:29,550 --> 00:05:33,940
as he prepares to come back,
taking some of fluid samples

109
00:05:33,940 --> 00:05:35,740
for the Russian Immuno
experiment,

110
00:05:35,740 --> 00:05:37,450
which looks to track changes

111
00:05:37,450 --> 00:05:39,230
in the immune system
response inside

112
00:05:39,230 --> 00:05:41,570
of these astronauts during
long-duration spaceflights.

113
00:05:41,570 --> 00:05:44,650
He is also working on and
taking some data reads

114
00:05:44,650 --> 00:05:48,360
for the Russian Pneumocard
experiment, which is the study

115
00:05:48,360 --> 00:05:50,740
of the ongoing adaptation

116
00:05:50,740 --> 00:05:53,490
of the astronauts
cardiovascular system,

117
00:05:53,490 --> 00:05:56,530
one of the many bodily
systems inside these astronauts

118
00:05:56,530 --> 00:06:00,420
that is subject to change as
they are exposed to microgravity

119
00:06:00,420 --> 00:06:02,500
for long durations of time.

120
00:06:02,500 --> 00:06:08,120
He is also working on setting up
the Russian experiment alongside

121
00:06:08,120 --> 00:06:12,160
with Yuri Malenchenko, on
that a radiation experiment

122
00:06:12,160 --> 00:06:15,890
that tracks the radiation dosage

123
00:06:15,890 --> 00:06:18,400
that these astronauts
are being exposed to,

124
00:06:18,400 --> 00:06:21,310
and named after the set
of nested Russian dolls,

125
00:06:21,310 --> 00:06:23,830

it has a number of dosimeters,

126
00:06:23,830 --> 00:06:28,430
or radiation reading
devices spaced throughout a

127
00:06:28,430 --> 00:06:34,740
mannequin-sized doll that is
then placed in different parts

128
00:06:34,740 --> 00:06:37,290
and different locations
throughout the station

129
00:06:37,290 --> 00:06:39,610
to constantly monitor
the radiation levels

130
00:06:39,610 --> 00:06:43,060
of these astronauts
been subjected to.

131
00:06:43,060 --> 00:06:46,630
Meanwhile, Sergei Revin doing
some standard maintenance work

132
00:06:46,630 --> 00:06:49,750
throughout the Russian segment,
uninstalling a few lights

133
00:06:49,750 --> 00:06:54,530
in the Poisk module,
where there Soyuz vehicle

134
00:06:54,530 --> 00:06:56,900
that they are scheduled
for return home in,

135
00:06:56,900 --> 00:06:59,680
is currently docked, and also

on taking out some lights

136
00:06:59,680 --> 00:07:01,720
in the Zvezda service module.

137
00:07:01,720 --> 00:07:04,420
Our last Russian
cosmonaut, Yuri Malenchenko,

138
00:07:04,420 --> 00:07:07,230
will remain onboard the
station, again working

139
00:07:07,230 --> 00:07:10,820
on that experiment
alongside of Gennady Padalka,

140
00:07:10,820 --> 00:07:12,960
doing some more follow-up
maintenance work

141
00:07:12,960 --> 00:07:14,320
on the Russian Elektron system