



1
00:00:01,630 --> 00:00:03,320
Good morning and welcome

2
00:00:03,320 --> 00:00:06,010
to today's International
Space Station update.

3
00:00:06,010 --> 00:00:07,460
You're joining us here inside

4
00:00:07,460 --> 00:00:09,610
of the International Space
Station flight control room

5
00:00:09,610 --> 00:00:12,520
in Houston Texas where the
Orbit Two team is currently

6
00:00:12,520 --> 00:00:15,720
on console monitoring all their
respective systems onboard the

7
00:00:15,720 --> 00:00:17,410
orbiting laboratory.

8
00:00:17,410 --> 00:00:18,750
Today's team is being led

9
00:00:18,750 --> 00:00:21,330
by flight director Tomas
Gonzales Torres there

10
00:00:21,330 --> 00:00:22,990
in the right of your screen.

11
00:00:22,990 --> 00:00:24,390
And in the red shirt right next

12

00:00:24,390 --> 00:00:28,880
to him is today's Capcom NASA
astronaut Clay Anderson serving

13
00:00:28,880 --> 00:00:31,640
as the voice communication
link between controllers here

14
00:00:31,640 --> 00:00:34,710
on the ground and the
astronauts up in space.

15
00:00:34,710 --> 00:00:37,690
And those astronauts
right now are the crew

16
00:00:37,690 --> 00:00:42,160
of Expedition 32 currently
comprised of six crew members

17
00:00:42,160 --> 00:00:47,630
since the addition a
little over a week ago.

18
00:00:47,630 --> 00:00:49,820
The astronauts quite
busy with an array

19
00:00:49,820 --> 00:00:52,820
of different maintenance and
experiment activities today.

20
00:00:52,820 --> 00:00:55,430
Starting off with
current Expedition 32.

21
00:00:55,430 --> 00:00:58,080
Commander and Russian
cosmonaut Gennady Padalka

22

00:00:58,080 --> 00:01:01,630
who spent a couple of hours
today leading astronauts

23

00:01:01,630 --> 00:01:04,520
Williams, Hoshide and
Malenchenko in a session

24

00:01:04,520 --> 00:01:07,720
with the integrated emergency
hardware familiarization

25

00:01:07,720 --> 00:01:10,260
conferring with teams on
the ground as he looks

26

00:01:10,260 --> 00:01:12,900
to familiarize these
newer crew members

27

00:01:12,900 --> 00:01:15,640
with different equipment
locations and valve positions

28

00:01:15,640 --> 00:01:16,660
across the Russian

29

00:01:16,660 --> 00:01:20,130
and US segments onboard the
International Space Station.

30

00:01:20,130 --> 00:01:21,970
Aside from doing that
today he'll be working

31

00:01:21,970 --> 00:01:25,700
on the Russian Elektron system
which looks to generate oxygen

32

00:01:25,700 --> 00:01:27,750

for the astronauts'
breathing atmosphere

33

00:01:27,750 --> 00:01:29,700

and also replacing a
few components inside

34

00:01:29,700 --> 00:01:31,920

of the Russian toilet system.

35

00:01:31,920 --> 00:01:35,250

Meanwhile his fellow Russian
cosmonaut Sergei Revin is doing

36

00:01:35,250 --> 00:01:39,320

some maintenance work on the air
revitalization system onboard

37

00:01:39,320 --> 00:01:42,230

the space station doing
a cleaning of a few

38

00:01:42,230 --> 00:01:45,990

of the air ducts and fan screens
also replacing a few lights

39

00:01:45,990 --> 00:01:49,340

and power supplies inside of
the Pirs docking compartment.

40

00:01:49,340 --> 00:01:51,240

He'll also be doing
an inspection of a few

41

00:01:51,240 --> 00:01:54,090

of the windows on the
Russian segment service module

42

00:01:54,090 --> 00:01:57,480

or Zvezda, checking

for any discoloration

43

00:01:57,480 --> 00:02:02,040

or potential nicks

and dings or hazards.

44

00:02:02,040 --> 00:02:04,600

NASA astronaut Joe

Acaba has been setting

45

00:02:04,600 --> 00:02:07,350

up the ultrasound 2

experiment hardware.

46

00:02:07,350 --> 00:02:10,060

And all that was used

today in a couple of scans

47

00:02:10,060 --> 00:02:12,470

for the Integrated

cardiovascular inside

48

00:02:12,470 --> 00:02:13,980

of the US laboratory.

49

00:02:13,980 --> 00:02:15,610

Integrated Cardiovascular one

50

00:02:15,610 --> 00:02:18,500

of the many biological

experiments onboard the station

51

00:02:18,500 --> 00:02:21,530

looking to monitor any

atrophy of the heart muscle

52

00:02:21,530 --> 00:02:23,280

or the weakening

of the heart muscle

53

00:02:23,280 --> 00:02:26,610

as these astronauts are exposed
to the microgravity environment

54

00:02:26,610 --> 00:02:29,450

of space for long
durations of time.

55

00:02:29,450 --> 00:02:32,560

Aside from that ultrasound 2
work today he'll also be taking

56

00:02:32,560 --> 00:02:36,160

a photo survey of the
Permanent Multipurpose Module

57

00:02:36,160 --> 00:02:39,840

and the station's cupola
which is the large bay window

58

00:02:39,840 --> 00:02:42,770

that these astronauts
use for an array

59

00:02:42,770 --> 00:02:45,310

of different Earth
observation activities as well

60

00:02:45,310 --> 00:02:47,700

as robotics operations.

61

00:02:47,700 --> 00:02:50,240

Moving on, Russian cosmonaut
Yuri Malenchenko involved

62

00:02:50,240 --> 00:02:52,330

in the Tipologia experiment.

63

00:02:52,330 --> 00:02:55,230

A Russian research project
used for the assessment

64

00:02:55,230 --> 00:02:58,810

of the mental state prediction
and correction quality

65

00:02:58,810 --> 00:03:01,600

of the different tasks these
astronauts perform while they're

66

00:03:01,600 --> 00:03:03,240

onboard the International
Space Station.

67

00:03:03,240 --> 00:03:06,430

And he'll also be taking some
time to familiarize himself

68

00:03:06,430 --> 00:03:11,340

with the station's systems and
environment onboard as part

69

00:03:11,340 --> 00:03:13,960

of a mandatory crew
orientation time.

70

00:03:13,960 --> 00:03:16,650

NASA astronaut Suni
Williams was setting

71

00:03:16,650 --> 00:03:21,870

up some acoustic dosimeters
which look to measure the sound

72

00:03:21,870 --> 00:03:23,380

that these crew members
are exposed

73

00:03:23,380 --> 00:03:25,110

to while they're
onboard the station.

74

00:03:25,110 --> 00:03:28,700

Part of again some of those
ongoing biological experiments

75

00:03:28,700 --> 00:03:30,690

that these crew members
kind of use themselves

76

00:03:30,690 --> 00:03:33,440

as guinea pigs for, so
she'll be setting those up.

77

00:03:33,440 --> 00:03:35,980

And then she was
assisting Joe Acaba

78

00:03:35,980 --> 00:03:38,950

with those ultrasound
scans a little bit earlier,

79

00:03:38,950 --> 00:03:42,920

monitoring his heart rate,
reactivating any of the oxygen

80

00:03:42,920 --> 00:03:44,990

or cameras if necessary,

81

00:03:44,990 --> 00:03:48,570

and also performing the exercise
scans with remote guidance

82

00:03:48,570 --> 00:03:50,320

from teams on the ground.

83

00:03:50,320 --> 00:03:53,900

And then our final crew member,
Aki Hoshide spending a lot

84

00:03:53,900 --> 00:03:57,030
of time today with the human
research facility scanning

85

00:03:57,030 --> 00:04:00,200
and identifying a number
of different crew samples,

86

00:04:00,200 --> 00:04:01,630
and also setting
up some hardware

87

00:04:01,630 --> 00:04:03,280
for some blood collection
work scheduled

88

00:04:03,280 --> 00:04:05,790
to take place tomorrow morning.

89

00:04:05,790 --> 00:04:06,910
While all this is going

90

00:04:06,910 --> 00:04:10,290
on the big ticket items this
week continue to be the slew

91

00:04:10,290 --> 00:04:12,640
of visiting vehicle activities.

92

00:04:12,640 --> 00:04:15,130
First off that Progress
47 spacecraft,

93

00:04:15,130 --> 00:04:19,510
which undocked Sunday afternoon,
was scheduled to re-dock testing

94

00:04:19,510 --> 00:04:21,870

out a new Kurs system on Monday

95

00:04:21,870 --> 00:04:24,040

which was then aborted
following the failure

96

00:04:24,040 --> 00:04:26,220

of that new Kurs antenna.

97

00:04:26,220 --> 00:04:29,090

Controllers are still taking a
look at all the data from that,

98

00:04:29,090 --> 00:04:32,470

working on another re-docking
attempt potentially coming

99

00:04:32,470 --> 00:04:34,160

up this weekend.

100

00:04:34,160 --> 00:04:36,920

Aside from that another
unmanned cargo craft,

101

00:04:36,920 --> 00:04:40,260

the H-II Transfer
Vehicle, the HTV3 vehicle

102

00:04:40,260 --> 00:04:41,560

which launched last Friday,

103

00:04:41,560 --> 00:04:43,990

July 20 from the
Tanegashima Space Center

104

00:04:43,990 --> 00:04:46,320

in southern Japan
is still currently

105

00:04:46,320 --> 00:04:49,070

on its way towards the
International Space Station

106

00:04:49,070 --> 00:04:51,670

with a scheduled
arrival this Friday.

107

00:04:51,670 --> 00:04:54,230

That grapple with the
station's robotic arm scheduled

108

00:04:54,230 --> 00:04:56,730

to take place at 7:04
a.m. central time,

109

00:04:56,730 --> 00:04:59,070

8:04 a.m. eastern time.

110

00:04:59,070 --> 00:05:02,830

And following that station
astronauts will maneuver the

111

00:05:02,830 --> 00:05:07,070

vehicle to the Earth-facing
side of the Harmony node

112

00:05:07,070 --> 00:05:09,010

for a berthing to
the ISS set to begin