



1
00:00:01,306 --> 00:00:03,406
Greetings from Mission
Control Houston.

2
00:00:03,476 --> 00:00:06,136
Welcome to today's International
Space Station Update.

3
00:00:06,976 --> 00:00:09,786
Onboard the International
Space Station today a lot

4
00:00:09,786 --> 00:00:12,716
of work being done for
the upcoming arrival

5
00:00:12,716 --> 00:00:15,286
of that Dragon spacecraft
launched

6
00:00:15,286 --> 00:00:17,206
by SpaceX a little
bit earlier this week.

7
00:00:17,786 --> 00:00:21,426
Suni Williams, much of the work
she's been doing today focused

8
00:00:21,426 --> 00:00:21,876
on that.

9
00:00:22,426 --> 00:00:25,686
She started off relocating one
of the laptops that'll be used

10
00:00:25,686 --> 00:00:27,796
for the robotic capture
operations.

11

00:00:28,146 --> 00:00:30,546

We're looking at one of
the laptops as she goes

12

00:00:30,546 --> 00:00:32,196

through some on-orbit training.

13

00:00:32,586 --> 00:00:36,066

Williams will be going through
some training simulations

14

00:00:36,066 --> 00:00:38,486

for the Dragon rendezvous
capture,

15

00:00:38,846 --> 00:00:42,336

also the vehicle operations
also found on the computer

16

00:00:42,336 --> 00:00:44,296

for once the craft is docked.

17

00:00:45,396 --> 00:00:47,856

She was also gathering
some equipment

18

00:00:47,856 --> 00:00:52,226

for the Dragon vestibule
outfitting, basically fitting

19

00:00:52,226 --> 00:00:54,816

out some of the particulars
of the hatch port

20

00:00:54,816 --> 00:00:56,266

between the Dragon spacecraft

21

00:00:56,266 --> 00:00:57,846

and the International
Space Station.

22

00:00:58,286 --> 00:00:59,796

She's also spending
some time going

23

00:00:59,796 --> 00:01:01,906

over all the cargo
being carried up.

24

00:01:02,226 --> 00:01:05,896

A total of about 882 pounds
of supplies being delivered

25

00:01:05,896 --> 00:01:07,166

to the orbiting laboratory

26

00:01:07,406 --> 00:01:10,036

from the unmanned
robotic Dragon spacecraft.

27

00:01:11,596 --> 00:01:13,976

Throughout all these ops
today she's being joined

28

00:01:13,976 --> 00:01:17,306

by Japanese astronaut Aki
Hoshide who's also going

29

00:01:17,306 --> 00:01:19,866

through some of this
on-orbit rendezvous

30

00:01:19,866 --> 00:01:22,446

and capture simulation
as he'll be standing

31

00:01:22,446 --> 00:01:25,476

by with Suni Williams at
the robotic arm controls

32

00:01:25,476 --> 00:01:28,196

as they guide Dragon in
on its final approach

33

00:01:28,616 --> 00:01:31,316

and for eventual berthing
to the Earth-facing side

34

00:01:31,686 --> 00:01:33,656

of the Harmony module
onboard the station.

35

00:01:34,166 --> 00:01:38,316

Aside from all these Dragon
ops training activities,

36

00:01:38,686 --> 00:01:41,496

Hoshide also doing
a thorough analysis

37

00:01:41,496 --> 00:01:43,486

of the Japanese experiment
module's

38

00:01:43,846 --> 00:01:45,606

microbiological environment.

39

00:01:45,906 --> 00:01:48,576

He's taking some
surface water samples

40

00:01:49,106 --> 00:01:53,556

and air biocharacterization
samples using a device known

41

00:01:53,556 --> 00:01:55,756

as SWAB, or the Surface Water

42

00:01:55,756 --> 00:01:58,596

and Air Biocharacterization
air sampling device.

43

00:02:00,096 --> 00:02:03,256

Our third astronaut onboard
the International Space Station

44

00:02:03,256 --> 00:02:05,456

right now, Russian
cosmonaut Yuri Malenchenko,

45

00:02:05,916 --> 00:02:09,106

began his day immediately with
the Russian SPRUT experiment

46

00:02:09,416 --> 00:02:12,646

which is a medical
research program designed

47

00:02:12,646 --> 00:02:15,256

to study the distribution
and behavior

48

00:02:15,256 --> 00:02:18,026

of different human body
fluids in zero gravity.

49

00:02:18,626 --> 00:02:21,986

Gravity while you're down
here on Earth has a tendency

50

00:02:21,986 --> 00:02:24,316

to push all of the
fluids in the human body

51

00:02:24,316 --> 00:02:25,376

down towards the legs.

52

00:02:25,376 --> 00:02:27,816

So once these astronauts

are exposed

53

00:02:27,816 --> 00:02:30,606
to that microgravity environment
for long periods of time

54

00:02:30,606 --> 00:02:32,796
that doesn't happen so SPRUT,

55

00:02:32,796 --> 00:02:35,816
one of many biomedical
experiments onboard the

56

00:02:35,816 --> 00:02:39,286
International Space Station, is
looking to continuously document

57

00:02:39,286 --> 00:02:41,366
and track the changes
the human body goes

58

00:02:41,366 --> 00:02:44,636
through as it is
exposed to microgravity

59

00:02:44,636 --> 00:02:45,966
for long periods of time.

60

00:02:46,506 --> 00:02:47,866
Aside from that, he was working

61

00:02:47,866 --> 00:02:50,596
on a fairly complex
physics experiment known

62

00:02:50,596 --> 00:02:52,026
as the Kulonovskiy Crystal.

63

00:02:52,436 --> 00:02:55,396

It's a Russian look into
studying the dynamic

64

00:02:55,396 --> 00:02:58,996
and structural characteristics
of different crystal systems

65

00:02:58,996 --> 00:03:02,046
that are formed when ions
are stored in something known

66

00:03:02,046 --> 00:03:03,656
as an electromagnetic trap.

67

00:03:04,226 --> 00:03:08,286
Aside from this, he'll be doing
some routine maintenance work

68

00:03:08,286 --> 00:03:10,496
onboard the station cleaning
out some of the filters

69

00:03:10,496 --> 00:03:12,816
and replacing a few
components inside

70

00:03:12,816 --> 00:03:14,046
of the Russian toilet system.

71

00:03:15,016 --> 00:03:18,726
All eyes, though, on the
SpaceX Dragon spacecraft

72

00:03:18,726 --> 00:03:22,276
as it continues its trip towards
the International Space Station

73

00:03:22,666 --> 00:03:26,176
currently scheduled to be
grappled tomorrow morning

