

LAT = -19.0 ORB= 07
ALT = 213.6 D/N: 0:04:51
LON= -170.1 BETA= -45.5
INC = 51.7



Time = 258/15:02

9 8 7

4

-60

30

0

-30

-60

1

00:00:01,990 --> 00:00:06,260

Welcome. This is Mission Control Houston,
at the NASA Johnson Space Center. And this

2

00:00:06,260 --> 00:00:12,559

is the space station update for Thursday,
September 15, wishing a safe journey to the

3

00:00:12,559 --> 00:00:20,230

three returning Expedition 28 crew members.
After 164 days in space and 162 days aboard

4

00:00:20,230 --> 00:00:25,900

the space station, Expedition 28 crew members
Ron Garan, Andrey Borisenko and Alexander

5

00:00:25,900 --> 00:00:32,390

Samokutyaev return home tonight aboard their
Soyuz TMA-21 spacecraft.

6

00:00:32,390 --> 00:00:37,990

Farewells and hatch closure are scheduled
for 4:20 p.m. Central time. Undocking from

7

00:00:37,990 --> 00:00:43,550

the Poisk module is scheduled at 7:38 p.m.
Central time and landing on that southern

8

00:00:43,550 --> 00:00:49,950

steppe of Kazakhstan is scheduled at 11 p.m.
Central time. That is 10 a.m. Kazakhstan time

9

00:00:49,950 --> 00:00:53,650

Friday morning.
To prepare for today's departure, the six

10

00:00:53,650 --> 00:00:58,510

station crew member were allowed to sleep
in and awoke at 8 a.m. Central instead of

11
00:00:58,510 --> 00:01:04,570
their typical 1 a.m. time. It's the first
full day with U.S. astronaut Mike Fossum as

12
00:01:04,570 --> 00:01:08,090
commander.
And today Garan will perform his final saliva

13
00:01:08,090 --> 00:01:14,439
test for that Integrated Immune human research
experiment. This information helps scientists

14
00:01:14,439 --> 00:01:17,700
and doctors develop countermeasures to reduce
in-flight health issues.

15
00:01:17,700 --> 00:01:23,579
Garan will also do some last minute stowage
and make sure the ham radio is deactivated.

16
00:01:23,579 --> 00:01:29,330
Satoshi Furakawa will work with the U.S. Waste
Hygiene Compartment today, answer some questions

17
00:01:29,330 --> 00:01:33,690
about the amount and types of food he is eating
and make sure that the station's handheld

18
00:01:33,690 --> 00:01:39,729
device that measures gas concentrations -- the
Compound Specific Analyzer that measures combustion

19
00:01:39,729 --> 00:01:44,249
products -- is working and in good working
order.

20
00:01:44,249 --> 00:01:48,179
Fossum will also answer questions about the
amount and types of food that he is eating;

21
00:01:48,179 --> 00:01:52,889
these questions are part of the human studies
done here at the Johnson Space Center that

22
00:01:52,889 --> 00:01:58,179
help prepare for future spaceflight. He will
also conduct an inventory and stowage conference

23
00:01:58,179 --> 00:02:03,359
with flight controllers today and work on
the Capillary Flow Experiment, that's another

24
00:02:03,359 --> 00:02:08,289
physics experiment on board the International
Space Station. It studies the effect of gravity

25
00:02:08,289 --> 00:02:13,670
on the flow of fluids, and that can be a challenge
when designing a spacecraft system because

26
00:02:13,670 --> 00:02:18,930
of liquid propellants and also waste management
and recycling issues.

27
00:02:18,930 --> 00:02:24,120
At the time of undocking today, Commander
Mike Fossum, along with Sergei Volkov and

28
00:02:24,120 --> 00:02:29,530
Satoshi Furukawa, they will become the Expedition
29 crew as they await the launch of Dan Burbank,

29
00:02:29,530 --> 00:02:37,360
Anton Shkaplerov and Anatoly Ivanishin.
Crew members today will also take some pictures.

30
00:02:37,360 --> 00:02:42,810
They have an opportunity to capture the cities
of, or actually the areas of West Hawk impact

31
00:02:42,810 --> 00:02:49,500
crater in Manitoba near Winnipeg. Also Nassau
in the Bahamas and the wildfires that are

32
00:02:49,500 --> 00:02:53,780
taking place in Oregon and Idaho.
Wildfires have not only been an issue here

33
00:02:53,780 --> 00:02:58,620
in Texas over the past months, but they've
also been an issue in the northwest as they

34
00:02:58,620 --> 00:03:04,310
have had many outbreaks. And in fact there
have been evacuations in the Mt. Hood area

35
00:03:04,310 --> 00:03:08,810
and other regions in Oregon.
The crew is to take pictures today of the

36
00:03:08,810 --> 00:03:12,620
smoke plumes.
Here in the Flight Control Room the Orbit

37
00:03:12,620 --> 00:03:18,100
2 team is on duty, with Flight Director Dina
Contella, along with Spacecraft Communicator,

38
00:03:18,100 --> 00:03:23,700
or Capcom, astronaut Barry "Butch" Wilmore.
Wilmore is a native of Tennessee. He piloted

39
00:03:23,700 --> 00:03:30,590
Atlantis on STS-129. And you may remember
him as the Capcom during ascent and landing