

1
00:00:02,520 --> 00:00:04,840
This is Mission Control Houston.

2
00:00:04,840 --> 00:00:08,130
Teams here in the Mission Control
Center at the Johnson Space Center

3
00:00:08,130 --> 00:00:12,820
in Houston have been awaiting
more word from their counterparts

4
00:00:12,820 --> 00:00:17,060
at the Russian Mission Control Center
outside of Moscow about the fate

5
00:00:17,060 --> 00:00:22,340
of the Progress supply ship that launched
from the Baikonur Cosmodrome in Kazakhstan

6
00:00:22,340 --> 00:00:25,410
at eight o'clock Houston time this morning.

7
00:00:25,410 --> 00:00:29,350
However, the head of the Russian
Mission Control Center as reported

8
00:00:29,350 --> 00:00:36,080
to space station Commander Andrey Borisenko
that the Progress supply ship suffered a failure

9
00:00:36,080 --> 00:00:41,790
of the upper stage of the booster at 320
seconds into the flight, that is five minutes

10
00:00:41,790 --> 00:00:46,600
and 20 seconds into the flight,
that communication was lost

11
00:00:46,600 --> 00:00:50,470

with both the launch vehicle
and the supply ship.

12

00:00:50,470 --> 00:00:53,250

Efforts to send commands to that vehicle

13

00:00:53,250 --> 00:00:58,680

in two subsequent communications
passes so far have been unsuccessful.

14

00:00:58,680 --> 00:01:05,660

The Russian teams have not reported that
that Progress vehicle has been lost.

15

00:01:05,660 --> 00:01:10,180

However they are continuing
to Try to determine the cause

16

00:01:10,180 --> 00:01:13,710

of the upper stage failure this morning.

17

00:01:13,710 --> 00:01:18,950

In the meantime, the crew members on orbit spent
their day doing science while some members were

18

00:01:18,950 --> 00:01:24,440

starting to prepare to come home next month.

19

00:01:24,440 --> 00:01:30,970

In the meantime, Flight Engineer Sergei Volkov
set up the RUSALKA experiment hardware today.

20

00:01:30,970 --> 00:01:36,730

That's a combination camera and spectrum
analyzer which is aimed at the sunlight

21

00:01:36,730 --> 00:01:41,020

that reflects off of the earth's
surface as seen from on orbit.

22
00:01:41,020 --> 00:01:47,290
The RUSALKA experiment is refining a procedure
for later hardware that will measure levels

23
00:01:47,290 --> 00:01:52,820
of carbon dioxide and methane that
are present in the Earth's atmosphere.

24
00:01:54,110 --> 00:01:55,980
Station Commander Andrey Borisenko

25
00:01:55,980 --> 00:02:02,850
and Flight Engineer Alexander Samokutyaev
continued their departure preparations today

26
00:02:02,850 --> 00:02:09,240
doing operations with the lower body negative
pressure suit that is a standard protocol

27
00:02:09,240 --> 00:02:12,730
for Russian crew members who
are preparing to return to Earth

28
00:02:12,730 --> 00:02:15,490
after an extended period of time on orbit.

29
00:02:15,490 --> 00:02:21,030
The suit exerts a negative pressure
that will tend to draw the bodily fluids

30
00:02:21,030 --> 00:02:25,900
down toward the person's feet in
an effort to simulate gravity.

31
00:02:25,900 --> 00:02:28,960
They also spent time packing their Soyuz vehicle

32
00:02:28,960 --> 00:02:33,560
and their Soyuz crewmate Flight

Engineer Ron Garan also was working

33

00:02:33,560 --> 00:02:35,860
on departure preparations today.

34

00:02:35,860 --> 00:02:39,900
Those three crew members are scheduled to
undock from the International Space Station

35

00:02:39,900 --> 00:02:48,590
on the evening of September 7th U.S. time
and land in Kazakhstan on September the 8th.

36

00:02:48,590 --> 00:02:54,580
Flight Engineer Mike Fossum spent his morning
is stowing hardware for the SHERE experiment,

37

00:02:54,580 --> 00:03:00,110
that's a fluid and physics experiment
that had experiment runs last week,

38

00:03:00,110 --> 00:03:04,540
and also spent a portion of his
afternoon cleaning up storage containers

39

00:03:04,540 --> 00:03:09,230
that are located inside the Minus
Eighty Degrees Laboratory Freezer

40

00:03:09,230 --> 00:03:14,220
that holds experiments samples
before their return to Earth.

41

00:03:14,220 --> 00:03:17,670
The crew expects to spend
most of their day on Thursday

42

00:03:17,670 --> 00:03:24,300
in continued experiment operations while
waiting to learn more about Progress number 44

