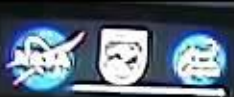




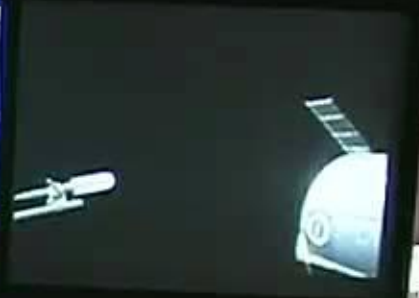
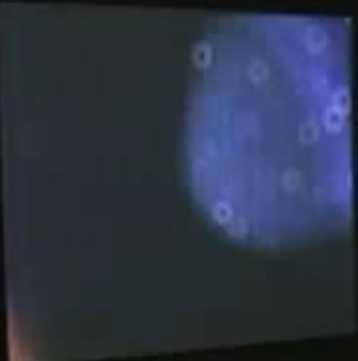
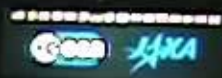
FOR PC  
FOR MAC  
FOR LINUX



Mission Management Center



MISSION LAUNCH  
MISSION STATUS



CATO



1  
00:00:01,576 --> 00:00:04,946  
[Commentator:] Good day, and  
welcome to Mission Control Houston

2  
00:00:04,946 --> 00:00:09,616  
where flight controllers are watching over the  
International Space Station as it orbits high

3  
00:00:09,616 --> 00:00:14,406  
above the southern Indian Ocean off the  
southern coast of Australia and Tasmania.

4  
00:00:15,626 --> 00:00:19,886  
Emily Nelson is the flight director here  
on duty today, and she's got Anna Fisher -

5  
00:00:19,886 --> 00:00:23,366  
the spacecraft communicator - a  
veteran astronaut by her side talking

6  
00:00:23,366 --> 00:00:24,996  
with the crew aboard the space station.

7  
00:00:25,706 --> 00:00:31,746  
Commander Mike Fossum, Flight Engineer Satoshi  
Furukawa and Sergei Volkov are continuing

8  
00:00:31,746 --> 00:00:38,646  
through a day of activities - of preparations  
for their departure, which is scheduled for late

9  
00:00:38,716 --> 00:00:43,556  
in November and for the arrival of three  
more crew members who are getting ready

10  
00:00:43,556 --> 00:00:47,276  
to launch this Sunday from the  
Baikonur Cosmodrome in Kazakhstan.

11

00:00:47,716 --> 00:00:51,296  
That'll be Dan Burbank, the future  
Expedition 30 commander of the space station,

12  
00:00:51,296 --> 00:00:54,786  
along with Russians Anatoly  
Ivanishin and Anton Shkaplerov.

13  
00:00:55,366 --> 00:00:58,186  
They're scheduled to dock with  
the International Space Station

14  
00:00:58,606 --> 00:01:02,016  
on the 16th of November, a Wednesday.

15  
00:01:02,606 --> 00:01:07,236  
The official launch time for  
their vehicle - a Soyuz TMA-22,

16  
00:01:07,236 --> 00:01:10,156  
the last of the old-style Soyuz crew vehicles -

17  
00:01:10,596 --> 00:01:14,876  
is scheduled for 10:14 p.m.  
Central time on November the 13th.

18  
00:01:14,876 --> 00:01:18,536  
That'll actually be Greenwich Mean  
Time, which the crew's operate on,

19  
00:01:18,536 --> 00:01:22,486  
on Monday November the 14th, and they'll  
be docking on the 16th of November

20  
00:01:22,956 --> 00:01:32,146  
to the Poisk module of the International  
Space Station at 11:33 p.m. Central time,

21  
00:01:32,216 --> 00:01:35,626  
which is technically November

the 15th in Houston.

22

00:01:37,376 --> 00:01:42,296

The change of command ceremony  
as the Expedition 29 crew hands

23

00:01:42,296 --> 00:01:46,806

over to the Expedition 30 crew is  
scheduled for Sunday, November the 20th,

24

00:01:47,216 --> 00:01:52,196

and that will be Mike Fossum handing over  
command of the station to Dan Burbank.

25

00:01:53,696 --> 00:01:59,766

This will be a relatively short handover  
period between the two crews based on a delay

26

00:01:59,766 --> 00:02:06,176

of the launch of the Expedition 30 crew  
following a Progress 44 launch failure

27

00:02:06,626 --> 00:02:10,966

that was followed by a successful  
Progress 45 launch.

28

00:02:11,366 --> 00:02:16,866

And yesterday the top managers of the Space  
Station Program reviewed all preparations

29

00:02:16,866 --> 00:02:24,386

for Dan Burbank and Anton Shkaplerov and Anatoly  
Ivanishin's launch aboard their Soyuz spacecraft

30

00:02:24,386 --> 00:02:28,186

and gave a go for that launch Sunday,  
which will be expanding the crew

31

00:02:28,186 --> 00:02:30,876

to six people for about six days of handovers.

32  
00:02:31,036 --> 00:02:39,826  
And then it'll be time for Mike Fossum, Satoshi Furukawa and Sergei Volkov to return home

33  
00:02:39,826 --> 00:02:41,456  
to Earth after six months in orbit.

34  
00:02:42,026 --> 00:02:48,646  
They're scheduled to undock from the space station on Tuesday, November 22,

35  
00:02:48,646 --> 00:02:55,756  
technically the 21st of November in Houston, and then land on the steppes of Kazakhstan

36  
00:02:55,756 --> 00:02:58,826  
at 8:25 p.m. Central time November 21,

37  
00:02:59,386 --> 00:03:03,396  
which will be 8:25 a.m. Kazakhstan time on November 22.

38  
00:03:03,866 --> 00:03:08,846  
All systems on the space station are working very well today

39  
00:03:08,846 --> 00:03:11,756  
as the crew does those preparations for departure.

40  
00:03:12,186 --> 00:03:17,436  
Coming up they're going to be doing some sampling of the water systems

41  
00:03:17,436 --> 00:03:20,946  
that recycle the liquids aboard the International Space Station for use,

42

00:03:21,256 --> 00:03:27,326  
and Satoshi Furukawa is going to be working with  
the deployment of some communications equipment

43  
00:03:27,326 --> 00:03:34,386  
for the onboard computer network while  
Sergei Volkov focuses his activities

44  
00:03:34,446 --> 00:03:37,366  
on laser communication system work.

45  
00:03:37,696 --> 00:03:44,646  
Earlier today, Commander Mike Fossum sent down  
some special words to voters on the ground

46  
00:03:44,646 --> 00:03:50,246  
in the United States, where it's election  
day, and he indicates that he's getting ready

47  
00:03:50,246 --> 00:03:52,686  
to do his voting and urges others to do so.

48  
00:03:52,686 --> 00:03:53,916  
We have a video clip of that.

49  
00:03:53,916 --> 00:03:58,006  
Let's take a look at that clip now.

50  
00:03:58,006 --> 00:03:59,146  
[Spacecraft communicator  
(Capcom):] And, let's see...

51  
00:03:59,146 --> 00:04:00,706  
I've got just one more thing Mike.

52  
00:04:00,706 --> 00:04:05,256  
Just a heads up: tomorrow is election  
day, and if you're planning any inputs,

53

00:04:05,396 --> 00:04:07,756  
they are due before evening DPC tomorrow.

54

00:04:08,496 --> 00:04:10,736  
Now, that's all I have for y'all tonight.

55

00:04:10,736 --> 00:04:11,586  
Do you have anything for us?

56

00:04:11,706 --> 00:04:16,656  
[Expedition 29 Commander Mike Fossum:] Hey,  
thanks for that reminder to get out and vote.

57

00:04:16,656 --> 00:04:19,696  
I have the information, and I will  
be doing that tonight, thanks.

58

00:04:19,696 --> 00:04:24,556  
Hope everybody else has a chance to do that too.

59

00:04:25,186 --> 00:04:28,846  
[Capcom:] Well, we plan on it, and  
we'll be doing it along with you.

60

00:04:29,496 --> 00:04:30,896  
So, do you have anything else for us?

61

00:04:33,056 --> 00:04:36,506  
[Fossum:] No, nothing else  
from us for Houston tonight.

62

00:04:36,716 --> 00:04:40,076  
[Capcom:] Ok, well then I'll  
hand you over to Huntsville.

63

00:04:47,166 --> 00:04:51,536  
[Commentator:] Astronauts are able to  
vote from the International Space Station

64

00:04:52,056 --> 00:04:56,356

through a special agreement that was worked out with the state of Texas.

65

00:04:58,456 --> 00:05:03,436

They have worked out with the appropriate county clerk offices to set up for the capability.

66

00:05:03,436 --> 00:05:08,206

Astronauts use a secure connection to cast their votes to the appropriate county clerk's office,

67

00:05:08,276 --> 00:05:11,296

either Galveston or Harris counties depending on where they reside,

68

00:05:11,786 --> 00:05:17,156

and a secure electronic ballot is generated by the county clerk's office to get into that.

69

00:05:17,226 --> 00:05:21,786

The ability to cast a vote from space was given to astronauts through the Texas House

70

00:05:22,226 --> 00:05:29,556

of Representatives and was signed into law July 9, 1997.

71

00:05:29,846 --> 00:05:32,716

Astronaut David Wolf was the first astronaut to vote from space

72

00:05:32,716 --> 00:05:36,256

when he lived aboard the Russian Mir space station in 1997,

73

00:05:36,256 --> 00:05:44,446

and many other astronauts have voted in elections throughout the years since then.

74

00:05:45,186 --> 00:05:53,406

We are receiving some downlink video as Mike Fossum works on those water sampling activities

75

00:05:53,406 --> 00:05:55,386

that were mentioned in the Destiny laboratory module,

76

00:05:56,126 --> 00:06:00,786

and otherwise fairly routine operations aboard the International Space Station today.

77

00:06:00,956 --> 00:06:06,356

We did have a special event earlier today with the deputy head of the U.S. Department