



FRIDAY, APRIL 27 ON NASA TV



**Exp. 30 Soyuz TMA-22 Landing in Kazakhstan**  
6:45am CT / 7:45am ET

1

00:00:03,020 --> 00:00:07,350

Good morning and welcome to today's  
International Space Station update hour.

2

00:00:07,350 --> 00:00:11,060

You are joining us here inside the  
International Space Station flight control room

3

00:00:11,060 --> 00:00:15,270

at the Johnson Space Center in Houston,  
Texas where the orbit two team is currently

4

00:00:15,270 --> 00:00:20,230

on console monitoring all the systems  
onboard the orbiting laboratory.

5

00:00:20,230 --> 00:00:24,670

That team today's being led by flight  
director of the Heather Rarick,

6

00:00:24,670 --> 00:00:28,810

joining her at the capcom position  
to the left, is Kathy Bolt serving

7

00:00:28,810 --> 00:00:31,700

as the voice communication  
link between controllers here

8

00:00:31,700 --> 00:00:34,850

on the ground and astronauts up in space.

9

00:00:34,850 --> 00:00:39,770

Those astronauts right now  
are the Expedition 30 crew,

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00:00:39,770 --> 00:00:44,060

being led by NASA astronaut Dan  
Burbank there on the front left row,

11

00:00:44,060 --> 00:00:49,010  
and behind him are Russian cosmonauts  
Anton Shkaplerov and Anatoly Ivanishin.

12  
00:00:49,010 --> 00:00:54,510  
Moving further across the back row, we have  
European Space Agency astronaut Andre Kuipers,

13  
00:00:54,510 --> 00:00:58,520  
NASA astronaut Don Pettit, and in the  
front right the third Russian cosmonaut

14  
00:00:58,520 --> 00:01:00,270  
Oleg Kononenko.

15  
00:01:00,270 --> 00:01:05,300  
The crew on board is jumping into  
quite a few activities for the week,

16  
00:01:05,300 --> 00:01:09,000  
starting off with Commander Burbank,  
who's doing some preparation work

17  
00:01:09,000 --> 00:01:12,330  
for his upcoming undocking and landing.

18  
00:01:12,330 --> 00:01:17,980  
He will be working with Anton Shkaplerov and  
Anatoly Ivanishin to conduct some leak checks

19  
00:01:17,980 --> 00:01:21,420  
and other tests on the Russian  
Sokol launch and entry suits,

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00:01:21,420 --> 00:01:25,390  
which they will wear while they depart  
the International Space Station and land

21  
00:01:25,390 --> 00:01:28,700  
in their Soyuz TMA-22 spacecraft.

22

00:01:28,700 --> 00:01:34,740

That all set up to take place on April 27, just under two weeks from now.

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00:01:34,740 --> 00:01:40,040

Aside from those leak checks and tests, Commander Burbank is doing some maintenance work

24

00:01:40,040 --> 00:01:44,790

on the Water Recovery System, hooking up a transfer pump to transfer some fluid

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00:01:44,790 --> 00:01:49,570

from all the wastewater bus and will also be preparing some items in one

26

00:01:49,570 --> 00:01:55,460

of the Express racks, specifically something called the DECLIC, or the device for the study

27

00:01:55,460 --> 00:01:59,130

of critical liquids and crystallization, will be relocating back

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00:01:59,130 --> 00:02:05,260

from on one Express rack too another Meanwhile, Anton Shkaplerov,

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00:02:05,260 --> 00:02:10,230

the commander of that Soyuz TMA-22 vehicle, will be involved with those Sokol launch

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00:02:10,230 --> 00:02:13,640

and entry suits checks, also doing some other preparation work

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00:02:13,640 --> 00:02:16,050

for their upcoming return to Earth.

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00:02:16,050 --> 00:02:20,080

Again, that coming up on April 27.

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00:02:20,080 --> 00:02:24,410

Aside from getting the suits readt, he will be working in the Soyuz vehicle hooking up a cooler

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00:02:24,410 --> 00:02:29,730

and drier, also doing some fan cleanings in the Poisk module.

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00:02:29,730 --> 00:02:37,020

And while he's doing all those, Anatoly Ivanishin, the third member of the Soyuz crew

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00:02:37,020 --> 00:02:40,600

that will be returning to Earth, will be doing some fan screen cleanings

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00:02:40,600 --> 00:02:42,820

of his own in the Rassvet module.

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00:02:42,820 --> 00:02:48,410

And also will be laying out the Sokol entry suits and all the astronaut gloves for drying

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00:02:48,410 --> 00:02:52,830

and cooling, and then eventually stowing those away once that's all completed.

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00:02:52,830 --> 00:02:58,010

Our third Russian cosmonaut, Oleg Kononenko, will become the commander

41

00:02:58,010 --> 00:03:00,540

of the International Space Station following the departure

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00:03:00,540 --> 00:03:05,040

of current Expedition 30 Commander  
Burbank, is doing some pretty routine work

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00:03:05,040 --> 00:03:09,410  
over in the Russian segment,  
transferring some waste fluids and urine

44

00:03:09,410 --> 00:03:13,000  
over to the currently docked  
Progress 46 spacecraft.

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00:03:13,000 --> 00:03:17,290  
Which will be undocking a little bit later  
this week and then eventually burning

46

00:03:17,290 --> 00:03:19,580  
up in the atmosphere upon re-entry.

47

00:03:19,580 --> 00:03:24,600  
He will also be involved in a Russian experiment  
a little bit later today known as Uragan,

48

00:03:24,600 --> 00:03:28,150  
will be doing some Earth  
observations and taking photography.

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00:03:28,150 --> 00:03:33,630  
And all this is done in the hopes of better  
using the International Space Station

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00:03:33,630 --> 00:03:40,450  
as an outpost for both monitoring and predicting  
any potential hazards and catastrophes down here

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00:03:40,450 --> 00:03:42,980  
on Earth, both man-made and natural.

52

00:03:42,980 --> 00:03:50,520  
Then moving on, Andre Kuipers is very  
busy today, working alongside Don Pettit,

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00:03:50,520 --> 00:03:57,240

doing some onboard training  
for the upcoming SpaceX launch.

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00:04:00,190 --> 00:04:04,130

He'll be working alongside  
Pettit rehearsing some rendezvous

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00:04:04,130 --> 00:04:06,740

and grapple with the Canada 2 arm.

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00:04:06,740 --> 00:04:10,780

Working out some procedures while they  
are in the cupola robotics workstation.

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00:04:10,780 --> 00:04:16,340

That Dragon spacecraft currently scheduled  
to launch at the end of April and then aiming

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00:04:16,340 --> 00:04:19,980

for rendezvous with the International  
Space Station on May 3.

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00:04:19,980 --> 00:04:23,500

It will be berthed to the  
Earth-facing port of the Harmony module.

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00:04:23,500 --> 00:04:29,510

That will be the first commercial resupply  
cargo vehicle, in order to bring resupplies back

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00:04:29,510 --> 00:04:31,240

up to the International Space Station.

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00:04:31,240 --> 00:04:34,170

Again currently targeted to dock on May 3.

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00:04:34,170 --> 00:04:39,710

So Kuipers will be doing quite a bit of training for that today, making sure he is familiarized

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00:04:39,710 --> 00:04:42,180  
with all the necessary robotic work.

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00:04:42,180 --> 00:04:46,640  
He will be working alongside  
NASA astronaut Don Pettit.

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00:04:46,640 --> 00:04:49,940  
Aside from that SpaceX training, Don Pettit

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00:04:49,940 --> 00:04:53,900  
and Kuipers will also be be involved  
in the space sound experiment.

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00:04:53,900 --> 00:04:59,400  
It is a Japanese experiment which uses  
a metallic bowl-like object and a stick,

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00:04:59,400 --> 00:05:04,240  
generating a kind of constant buzzing noise  
that's then recorded with 3-D microphones,

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00:05:04,240 --> 00:05:08,960  
and then whichever crew members  
not actively making the sound.

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00:05:08,960 --> 00:05:11,650  
Japanese investigation into  
how sound is traveling

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00:05:11,650 --> 00:05:14,730  
and received while onboard the  
International Space Station.

73

00:05:14,730 --> 00:05:21,050  
Aside from that, Pettit will also be setting  
up the super sensitive HDTV camera inside

74

00:05:21,050 --> 00:05:24,910

of the cupola to capture some of  
that more fantastic aurora views