



1

00:00:01,910 --> 00:00:07,490

Welcome, today is Thursday, January 26, and this is the International Space Station update

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00:00:07,490 --> 00:00:13,150

from Mission Control at the Johnson Space Center in Houston.

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00:00:13,150 --> 00:00:18,810

Today onboard the International Space Station the Expedition 30 crew has been busy

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00:00:18,810 --> 00:00:19,370

this morning.

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00:00:19,370 --> 00:00:22,030

They've already had their breakfast and their lunch.

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00:00:22,030 --> 00:00:25,690

Don Pettit has been working on the ISSAC

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00:00:25,690 --> 00:00:29,190

which is the International Space Station Agricultural Camera.

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00:00:29,190 --> 00:00:34,400

That camera takes photos of vegetated areas of the northern Great Plains.

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00:00:34,400 --> 00:00:38,400

The camera was built by students at the University of North Dakota

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00:00:38,400 --> 00:00:40,910

and is actually run by the students.

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00:00:40,910 --> 00:00:46,830

In addition, Pettit has also been working

on a number of other things in the lab.

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00:00:46,830 --> 00:00:50,820

He made sure that that agriculture camera was open.

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00:00:50,820 --> 00:00:55,430

Andre Kuipers has been working with the VIABLE payload.

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00:00:55,430 --> 00:01:02,340

That payload is a study that involves the evaluation of micro, microbial biofilms.

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00:01:02,340 --> 00:01:04,670

It actually studies space materials.

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00:01:04,670 --> 00:01:08,200

It looks at the metal and textile space materials,

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00:01:08,200 --> 00:01:10,170

and he's been working on that this morning.

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00:01:10,170 --> 00:01:13,290

He's also been working on the compound specific analyzer.

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00:01:13,290 --> 00:01:19,910

That's an analyzer that does studies on oxygen in the International Space Station.

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00:01:19,910 --> 00:01:25,140

Kuipers also has been spending some time working on the Kibo laboratory.

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00:01:25,140 --> 00:01:27,880

He's been working on the clean bench functional check out.

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00:01:27,880 --> 00:01:35,200  
The clean bench is part of the JAXA or Japanese  
Aerospace Exploration Agency experiments.

23  
00:01:35,200 --> 00:01:40,930  
It's a facility located in that laboratory, and  
it is located in the SAIBO, which is also known

24  
00:01:40,930 --> 00:01:43,970  
as the Living Cell Experiment Rack.

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00:01:43,970 --> 00:01:48,980  
That clean bench has two compartments, a  
disinfection chamber and operation chamber,

26  
00:01:48,980 --> 00:01:51,480  
and air is circulated inside to keep it clean.

27  
00:01:51,480 --> 00:01:55,340  
Crew members operate the experiment  
materials from outside using gloves

28  
00:01:55,340 --> 00:02:03,300  
to prevent contamination of ambient air,  
and that also has a very extreme microscope

29  
00:02:03,300 --> 00:02:07,230  
so that they can study the  
articles in that experiment.

30  
00:02:07,230 --> 00:02:11,210  
Kuipers also has time been doing  
some swapping this morning.

31  
00:02:11,210 --> 00:02:17,710  
He's been swapping telemetry cables from the  
KU antenna group number two to number one.

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00:02:17,710 --> 00:02:25,250

And this will provide better television  
for us here at the Johnson Space Center

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00:02:25,250 --> 00:02:29,250

as we capture images from the  
International Space Station.

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00:02:29,250 --> 00:02:35,190

And also in other activities Commander  
Burbank and Don Pettit have been working

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00:02:35,190 --> 00:02:38,270

with Nutrition activities throughout the day.

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00:02:38,270 --> 00:02:41,280

They've been working on the  
SPHERES port assembly,

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00:02:41,280 --> 00:02:44,650

and they've also been working in the MELFI.

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00:02:44,650 --> 00:02:49,700

The International Space Station Progress  
46 cargo craft is also on its way

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00:02:49,700 --> 00:02:55,280

to the International Space Station today, with  
launch late yesterday at 5:06 p.m. central time

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00:02:55,280 --> 00:02:57,570

from the Baikonur Cosmodrome in Kazakhstan.

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00:02:57,570 --> 00:03:01,540

After reaching orbit and deploying its  
solar arrays and navigational antennas,

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00:03:01,540 --> 00:03:04,880

the Progress will conduct two  
automated rendezvous burns.

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00:03:04,880 --> 00:03:08,690

This will fine tune its path to the International Space Station.

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00:03:08,690 --> 00:03:11,610

Another such burn is on tap later this afternoon,

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00:03:11,610 --> 00:03:17,520

with docking to the Pirs docking compartment scheduled for tomorrow at 6 p.m. central time.

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00:03:17,520 --> 00:03:22,770

That craft is loaded with nearly 3 tons of water air, propellant and equipment

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00:03:22,770 --> 00:03:25,000

for the International Space Station.

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00:03:25,000 --> 00:03:27,780

In other space station news, the same piece of space debris

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00:03:27,780 --> 00:03:31,670

that has had NASA considering safe haven for the crew

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00:03:31,670 --> 00:03:36,440

in the Soyuz vehicles earlier this week is still being tracked our ballistics team.

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00:03:36,440 --> 00:03:40,600

Overnight the TOPOs or the Trajectory Operations Officers were informed

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00:03:40,600 --> 00:03:46,020

that another possible conjunction with that same piece of Chinese Fengyun satellite debris

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00:03:46,020 --> 00:03:50,930

with two possible close encounters of the station coming in the wee hours Sunday.

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00:03:50,930 --> 00:03:59,340

That is being monitored by the crew and by the team here at the NASA's Johnson Space Center.

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00:03:59,340 --> 00:04:03,600

As of this morning that is considered a medium concern

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00:04:03,600 --> 00:04:06,510

for the International Space Station crew.

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00:04:06,510 --> 00:04:11,350

But again, mission controllers are considering some possible tweaks to the station's orbit

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00:04:11,350 --> 00:04:15,710

after the docking of the Progress 46 Friday night.

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00:04:15,710 --> 00:04:21,560

Today at NASA is the day of remembrance as we honor the crews

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00:04:21,560 --> 00:04:27,340

of Apollo 1, Challenger and Columbia.

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00:04:27,340 --> 00:04:32,390

We'll be honoring the men and women who lost their lives during the space agency's,

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00:04:32,390 --> 00:04:36,360

during the agency's space exploration program.

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00:04:36,360 --> 00:04:38,640

We celebrate their lives and their bravery and their advancement

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00:04:38,640 --> 00:04:43,070  
in human spaceflight today here at the  
Johnson Space Center at 2 p.m. central time.

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00:04:43,070 --> 00:04:48,830  
We will pause to remember those crews, the  
crews of Apollo 1, Challenger and Columbia.