



VOICE OF

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JOHNSON SPACE CENTER, HOUSTON, TX

1

00:00:00,830 --> 00:00:02,870

Good morning from NASA's Johnson Space Center.

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00:00:02,870 --> 00:00:04,430

This is Mission Control Houston.

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00:00:04,430 --> 00:00:07,650

You're looking at the International
Space Station flight control room

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00:00:07,650 --> 00:00:14,280

from the front corner of the room looking
across the top of the consoles staffed by a team

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00:00:14,280 --> 00:00:19,190

of flight controllers watching over all of the
systems aboard the International Space Station.

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00:00:19,190 --> 00:00:24,680

The team today is led by
flight director Ron Spencer,

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00:00:24,680 --> 00:00:28,920

who is watching over the team
throughout the daytime hours

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00:00:28,920 --> 00:00:31,570

which is the second half of the crew's day.

9

00:00:31,570 --> 00:00:37,070

He's joined by Hal Getzelman who is
serving as the spacecraft communicator,

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00:00:37,070 --> 00:00:42,380

the link between this team and the crew
onboard the International Space Station.

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00:00:42,380 --> 00:00:48,710

The orbiting complex is approaching the

southwestern United States from the southwest,

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00:00:48,710 --> 00:00:54,550
having just moved into an orbital sunrise, just
about to move across the Baja Peninsula and then

13
00:00:54,550 --> 00:00:58,910
across the central portions of the
US, the Great Lakes region and then

14
00:00:58,910 --> 00:01:03,960
out across northeastern Canada before
making a swing across the North Atlantic,

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00:01:03,960 --> 00:01:09,220
the next coastal crossing will
be the coast of Spain in Europe.

16
00:01:09,220 --> 00:01:14,980
The crew on board enjoying
their 140th day in space,

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00:01:14,980 --> 00:01:18,230
138 of those aboard the International
Space Station.

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00:01:18,230 --> 00:01:23,220
From left to right Don Pettit, US
astronaut, serving as a flight engineer.

19
00:01:23,220 --> 00:01:27,670
In the middle is the commander
of Expedition 31 Oleg Kononenko.

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00:01:27,670 --> 00:01:32,510
He is also the commander of
the Soyuz TMA-03M spacecraft

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00:01:32,510 --> 00:01:39,230
in which the three crew members arrived

at the station back on December 23, 2011.

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00:01:39,230 --> 00:01:41,670

And on the right is, from the Netherlands,

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00:01:41,670 --> 00:01:45,790

is Andre Kuipers representing
the European Space Agency.

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00:01:45,790 --> 00:01:49,060

All three gentlemen have
flown in space previously.

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00:01:49,060 --> 00:01:52,510

This will be their longest duration spaceflight,

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00:01:52,510 --> 00:01:58,890

when they complete their mission they
have will spent about 193 days in space.

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00:01:58,890 --> 00:02:03,870

Today the crew focused on experiment work
and completed an onboard training exercise

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00:02:03,870 --> 00:02:09,730

in how they would respond in the event of an
emergency depressurization of the station.

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00:02:09,730 --> 00:02:14,490

The crew also continued preparations for
the arrival of two visiting vehicles:

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00:02:14,490 --> 00:02:18,200

a Soyuz next week transporting
three more colleagues

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00:02:18,200 --> 00:02:23,190

and the following week a new
commercial cargo vehicle named Dragon.

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00:02:23,190 --> 00:02:26,430

Pettit spent time loading software
in one of the experiment racks

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00:02:26,430 --> 00:02:30,520

for the ALTEA experiment designed to
measure the effects of the exposure

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00:02:30,520 --> 00:02:33,220

of crew members to cosmic radiation.

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00:02:33,220 --> 00:02:37,350

It's designed to improve the understanding
of the impacts that radiation has

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00:02:37,350 --> 00:02:43,000

on the human central nervous system functions
and will study the flashes from cosmic radiation

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00:02:43,000 --> 00:02:47,500

that astronauts have reported
since back in the Apollo days.

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00:02:47,500 --> 00:02:50,860

ALTEA will also provide an assessment
of the radiation environment

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00:02:50,860 --> 00:02:54,230

in the International Space Station's cabin.

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00:02:54,230 --> 00:02:57,750

Pettit also worked with Payload
Operations Control Center in Huntsville,

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00:02:57,750 --> 00:03:03,370

Alabama to begin troubleshooting a
synchronization issue between a reference clock,

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00:03:03,370 --> 00:03:08,660

an atomic clock associated with the SPHERES experiment designed to test a set

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00:03:08,660 --> 00:03:11,870

of well-defined instructions for spacecraft

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00:03:11,870 --> 00:03:16,600

that are performing autonomous rendezvous and docking maneuvers.

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00:03:16,600 --> 00:03:21,280

Along with Kuipers, Pettit discussed the mission of Expedition 31 and life

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00:03:21,280 --> 00:03:24,580

in space with the World Wildlife Fund.

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00:03:24,580 --> 00:03:30,200

The annual global conference is ongoing as we speak in Rotterdam, the Netherlands.

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00:03:30,200 --> 00:03:35,460

The WWF is one of the world's leading conservation organizations and is working

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00:03:35,460 --> 00:03:39,860

with more than 100 countries around the world.

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00:03:39,860 --> 00:03:44,180

With Kononenko, the crew also focuses on safety and today conducted

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00:03:44,180 --> 00:03:49,290

that onboard training exercise with mission control on procedures and how to respond

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00:03:49,290 --> 00:03:53,650

in the event of a rapid depressurization of the station's cabin atmosphere.

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00:03:53,650 --> 00:03:56,950

The exercise concluded with
the debrief that was followed

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00:03:56,950 --> 00:04:00,870

by the crew's lunch a little
bit earlier this morning.

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00:04:00,870 --> 00:04:06,370

Anticipating the arrival of three more station
crew members the expedition 31 crew continued

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00:04:06,370 --> 00:04:12,710

preparing for the Soyuz TMA-04M
launch scheduled for May 14th,

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00:04:12,710 --> 00:04:15,460

with arrival at the station on the 16th.

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00:04:15,460 --> 00:04:20,160

Their arrival will restore the
station's crew complement to six.

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00:04:20,160 --> 00:04:27,100

SpaceX Dragon spacecraft is scheduled to launch
May 19, and it will be delivering some supplies

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00:04:27,100 --> 00:04:34,040

to the International Space Station, and the crew
is continuing to do some prepack exercises items