



# SPACE TO GROUND

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00:00:00,940 --> 00:00:06,100

Dan Huot: Welcome to Space To Ground, your weekly look at what's happening on board the

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00:00:06,100 --> 00:00:07,400

International Space Station.

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00:00:07,400 --> 00:00:08,519

I'm Dan Huot.

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00:00:08,519 --> 00:00:13,379

A Russian spacewalk kicked off the station's work week and was the second trip outside

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00:00:13,379 --> 00:00:15,259

for two Russian flight engineers.

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00:00:15,259 --> 00:00:20,430

Cosmonauts Alexander Skvortsov and Oleg Artemyev worked quickly in the vacuum of space, getting

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00:00:20,430 --> 00:00:23,480

all their tasks done in just five hours and eleven minutes.

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00:00:23,480 --> 00:00:27,750

The pair swapped out a number of experiments that live outside the station, some of which

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00:00:27,750 --> 00:00:32,060

are looking at how different materials hold up when exposed to the harsh environment of

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00:00:32,060 --> 00:00:33,060

space.

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00:00:33,060 --> 00:00:37,010

They also deployed a small Peruvian satellite called Chasqui-1 which will orbit the Earth

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00:00:37,010 --> 00:00:39,840

and take images of the ground below.

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00:00:39,840 --> 00:00:43,989

Also taking flight this week from the ISS  
was Planet Labs' latest flock of satellites

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00:00:43,989 --> 00:00:45,910

known as Dove sats.

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00:00:45,910 --> 00:00:50,670

This fleet of 28 small satellites deployed  
from the Japanese module's airlock.

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00:00:50,670 --> 00:00:54,690

While in orbit, they'll capture frequent high  
resolution images of the Earth's surface that

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00:00:54,690 --> 00:00:58,170

are made available to everyone through [planet-labs.com](http://planet-labs.com).

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00:00:58,170 --> 00:01:02,399

The pictures can be used for everything from  
monitoring deforestation and the ice caps

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00:01:02,399 --> 00:01:04,570

to helping with disaster relief.

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00:01:04,570 --> 00:01:08,340

And always ready to share their own views  
from the station, the Expedition 40 crew caught

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00:01:08,340 --> 00:01:13,090

some fantastic images of the Cygnus spacecraft's  
fiery re-entry.

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00:01:13,090 --> 00:01:17,600

Crew members Alexander Gerst and Max Suraev

captured these images on Sunday while the

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00:01:17,600 --> 00:01:21,860

unmanned cargo craft was breaking up in the earth's atmosphere, marking a successful end

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00:01:21,860 --> 00:01:24,810

to orbital sciences' second resupply mission.

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00:01:24,810 --> 00:01:29,020

This week's twitter question comes from Marianna who asks: "Do all crew members do a spacewalk

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00:01:29,020 --> 00:01:30,840

in the six months they're on ISS?"

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00:01:30,840 --> 00:01:35,370

As much as they'd all like to, not every crew member gets to go on a spacewalk.

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00:01:35,370 --> 00:01:40,090

However they all get training in NASA's neutral buoyancy laboratory before flying, just in

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00:01:40,090 --> 00:01:43,930

case they get the call to head outside to perform any major repairs.

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00:01:43,930 --> 00:01:47,160

And there certainly hasn't been a lack of spacewalks in the station's history.

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00:01:47,160 --> 00:01:52,820

In the almost 14 years since humans arrived onboard, they have racked up over 1,100 hours

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00:01:52,820 --> 00:01:57,420

across 181 spacewalks to build and maintain the ISS.

