



# Space to Ground

1

00:00:02,980 --> 00:00:08,020

Welcome to Space to Ground and welcome to 2020, I'm Leah Cheshier. This week a

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00:00:08,029 --> 00:00:12,410

dragon descended from its perch on the space station and an astronaut achieved

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00:00:12,410 --> 00:00:17,410

another spaceflight milestone. SpaceX's Dragon resupply spacecraft

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00:00:17,410 --> 00:00:22,100

departed from the orbiting laboratory on January 7th, splashing down in the

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00:00:22,100 --> 00:00:26,270

Pacific Ocean about five hours later. Launching on December 5th,

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00:00:26,270 --> 00:00:30,080

this was SpaceX's 19th commercial resupply mission to the space station

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00:00:30,080 --> 00:00:35,960

and the reusable dragon capsules third visit. The vehicle delivered about 5,700

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00:00:35,960 --> 00:00:39,770

pounds of supplies equipment and materials for science and research

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

investigations. Dragon is the only resupply spacecraft that can return

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00:00:44,060 --> 00:00:48,820

research and cargo to earth bringing back around 3,600 pounds.

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00:00:49,380 --> 00:00:54,440

NASA astronaut Christina Koch continues to add days to her new record of longest single

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00:00:54,440 --> 00:01:00,590

spaceflight by a female astronaut. On January 9, Koch reached her 300th day in

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00:01:00,590 --> 00:01:04,909

space nearing the end of her first mission. Koch is scheduled to return to

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00:01:04,909 --> 00:01:09,229

Earth on February 6th, 328 days after launching from the Baikonur Cosmodrome

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00:01:09,229 --> 00:01:14,180

on March 14. During her time aboard the orbiting laboratory, Koch has

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00:01:14,180 --> 00:01:18,260

participated in hundreds of science experiments inspired people worldwide

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00:01:18,260 --> 00:01:21,860

and completed four spacewalks with more on the horizon.

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00:01:23,000 --> 00:01:28,100

As we look forward into the new decade, we continue work toward the Artemis program in landing the first

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00:01:28,100 --> 00:01:32,659

woman and next man on the lunar surface. Tim wants to know if international

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00:01:32,659 --> 00:01:35,979

partners and private space industries are contributing to our journey.

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00:01:35,979 --> 00:01:42,170

Absolutely! In 2019 the governments of Canada, Australia, and Japan committed to

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00:01:42,170 --> 00:01:45,950

partnering with NASA on the Artemis program and more may join. Research

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00:01:45,950 --> 00:01:49,729

being conducted on the International Space Station also helps us prepare for

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00:01:49,729 --> 00:01:54,290

those future long-duration missions. Additionally, private companies will help

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00:01:54,290 --> 00:01:56,530

develop the Gateway in orbit around the moon

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00:01:56,530 --> 00:02:00,730

as well as the lunar lander. They will also provide deliveries to the moon