



*SpaceX Falcon 9 Rocket Launch on May 23, 2019.
S&T, March, 2020.*

<https://www.cnbc.com/video/2020/01/07/watch-spacex-successfully-launch-its-third-batch-of-starlink-satellites.html>

SpaceX Starlink Satellites



60 Starlink Satellites before launch.

S&T, March, 2020.

SpaceX Starlink Satellites



60 Starlink Satellites ready to be released.

Total number of satellites is now 2218, along with 900,000 pieces of space junk.

SpaceX Starlink Satellites



The Satellite's Solar Array.

These 60 were painted Black – 3.5 magnitude - but will still be visible.

S&T, March, 2020.

SpaceX Starlink Satellites



May 24th, Marco Langbroek captures a video of the satellite train.

<https://www.youtube.com/watch?v=ytUygPqjXEc>

Note: 5 satellites are missing and 10 did not reach orbit!

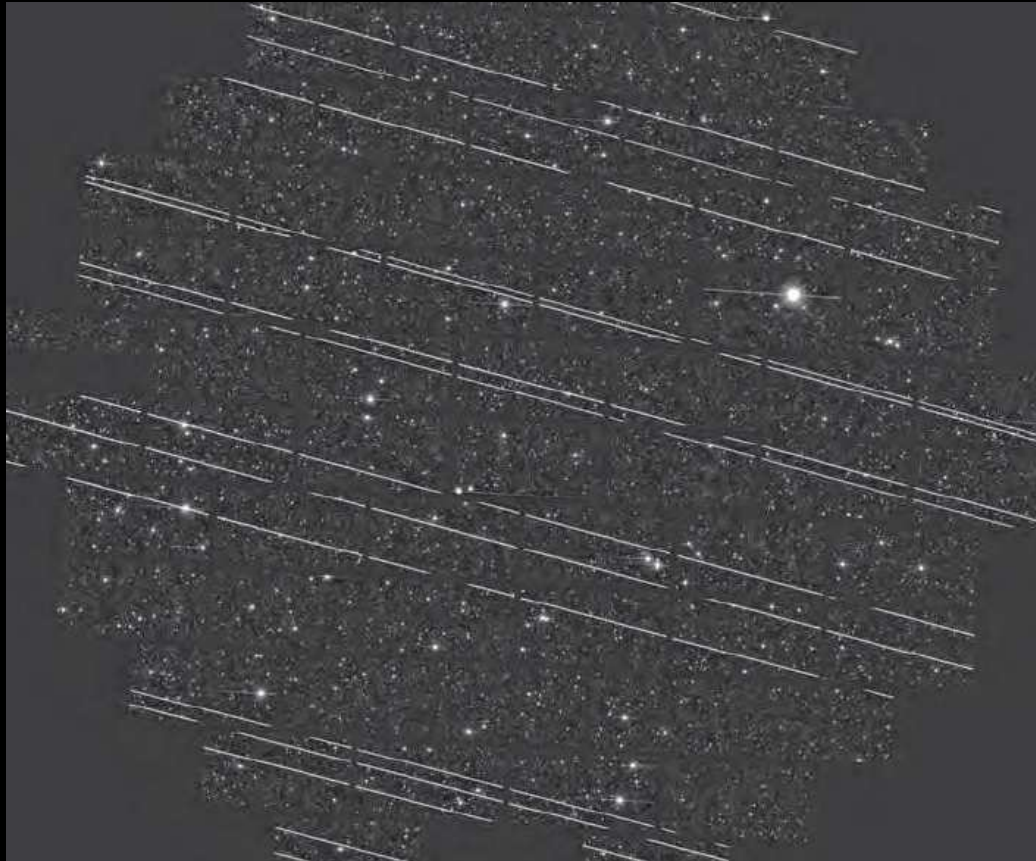
SpaceX Starlink Satellites



Initial Phase of the Starlink Constellation: *Used for Internet Access.*
1,584 satellites in 24 orbital planes at 550 km.

S&T March 2020.

SpaceX Starlink Satellites



Nov. 18th, 2019. Starlink satellites at 280 km crossed over the Dark Energy Camera on the 4-meter Blanco Telescope, at the Cerro Tololo Inter-American Observatory in Chile. This six-minute exposure of the Large Magellanic Cloud was designed to look for new dwarf galaxies in the Milky Way's but instead saw the Starlink satellite train.

SpaceX Starlink Satellites

The FCC has now allowed up to 11,927 Starlink Satellites.



SpaceX Starlink Satellites

The image features a dark blue gradient background. In the lower-left corner, there are three curved lines representing satellite orbits, each with a small blue dot representing a satellite. The text 'SpaceX Starlink Satellites' is written in a white, sans-serif font with a blue outline, positioned in the lower-right area of the slide.

The FCC has now allowed up to 11,927 Starlink Satellites.

Very soon, every photograph of the night sky taken 2 hours after sunset or 2 hours before sunrise will have a satellite trail showing on it...

A decorative graphic in the bottom-left corner of the slide. It features two curved, parallel lines representing satellite orbits, with two small blue circles placed on the upper curve to represent satellites. The background of this graphic is a gradient from dark blue to black.

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February 17, 2020, SpaceX launched the 5th group of 60. StarLink now has 300 low orbit satellites.

SpaceX Starlink Satellites

How will this effect our own photographs?

Here are examples...



SpaceX Starlink Satellites



Above: NGC 2359



Right: NGC 3628

Tim Hunter, IDA Co-Founder, AL Reflector, March, 2020.

Left: US Army RQ-7 Shadow Drone making two passes.

Right: Two satellite trails and an RQ-7 Shadow Drone pass.



Tim Hunter, IDA Co-Founder, AL Reflector, March, 2020.

Left: US Air Force UAV MQ1C Sky Warrior.

Right: US Army RQ-7 Shadow Drone.



Al Sheidler, 2-29-2020. Satellite lower left.
M42_M43_Orion Nebula DSC_2556aK



Al Sheidler, 2-29-2020. Meteor center, satellite below it.

The Flame Nebula DSC_2557Z