

Atlas V streaks to orbit on 100th successful mission for ULA with Mexico's Morelos-3

October 5 2015, by Ken Kremer



100th United Launch Alliance (ULA) rocket streaks to orbit with Atlas V booster carrying the Morelos-3 mission for Mexico from Space Launch Complex 41 on Cape Canaveral Air Force Station, Florida at 6:28 a.m. EDT, Oct. 2, 2015 as seen from Melbourne Beach pier, Florida. Credit: Julian Leek

United Launch Alliance (ULA) celebrated an incredible milestone today,

Oct. 2, with the successful launch of the firm's 100th mission on an Atlas V rocket carrying Mexico's next generation Morelos-3 satellite to provide advanced telecommunications for education and health programs for rural communities and secure communications for Mexican national security needs.

The spectacular predawn liftoff finally took place at 6:28 a.m. EDT from Space Launch Complex 41 on Cape Canaveral Air Force Station, Florida – after nearly being derailed by a literally last second unexpected delay caused when an errant boat suddenly entered the safety exclusion zone, forcing a temporary postponement to the very end of the [launch](#) window.

The Atlas V blastoff lit up the darkened skies, thrilling spectators all around the Florida Space Coast, and successfully delivered Morelos-3 to its desired geosynchronous transfer orbit of 2588 x 19323 nautical miles.

ULA President and CEO Tory Bruno was personally on hand for ULA's milestone 100th launch since the company was formed in late 2006. It was also the 57th Atlas V launch since the vehicle's inaugural mission in 2002.

"The launch was beautiful," Bruno told reporters at a post launch media briefing.

"I'm extremely proud of my people on the ULA team who made this happen."

"This is a very exciting day and a big event for the life of ULA," Bruno remarked. "We are honored to be chosen by the government of Mexico to bring rural telephone service to their country. And we dropped the Morelos-3 satellite off to within one mile of its approximately 23,000 mile apogee transfer orbit."

"And it's important for us and symbolic that it was a commercial mission for the 100th launch. Meaning our future is now in a competitive and commercial marketplace."

Friday's blastoff came in between a pair of threatening weather events – as the Category 4 Hurricane Joaquin was thrashing The Bahamas nearby with 130 mph winds and rains and a nor'easter was drenching a wide swath of the US eastern seaboard with torrential rains from the Carolina's to New England.



A United Launch Alliance (ULA) Atlas V rocket carrying the Morelos-3 mission streaks to orbit from Space Launch Complex 41 on Cape Canaveral Air Force Station, Florida, at 6:28 a.m. EDT on Oct. 2, 2015. Credit: ULA

Morelos-3 counts as the second of two communications satellites that comprise the Mexsat communications satellite system for the Mexican government's Ministry of Communications and Transportation.

"The successful placement of Morelos-3 into orbit is tremendous news for Mexico," said Omar Charfén, Mexsat program director general. "Now, we can begin to use Morelos-3 to expand the already robust capabilities of our Mexsat communications network."

Mexsat aims to "provide secure communications for Mexico's national security needs and communications to rural zones to complement other existing networks. It will enhance the governments disaster relief efforts, emergency services, telemedicine, rural education and telecommunications access for populations in remote locations of Mexico, including education and health programs, voice, data, video and internet. It is an end-to-end satellite communications system that provides 3G+ communications services to mobile terminals across multiple platforms."

The Morelos-3 launch contract was procured for Mexico by Lockheed Martin Commercial Launch Services and markets the Atlas V to commercial satellite customers worldwide.

ULA was formed in 2006 as a 50:50 joint venture between Lockheed Martin and Boeing that combined their existing expendable rocket fleet families – the Atlas V and Delta IV – under one roof.

"The quality and reliability of the Atlas V is unparalleled, and today it delivered on a critical step toward bringing next-generation mobile telecommunications services to Mexico," said Steve Skladanek, president of Lockheed Martin Commercial Launch Services.

"The placement of Morelos-3 into orbit is vital to an effective Mexsat

constellation, and partnering with ULA, we were able to help the customer achieve that mission."

"Congratulations to Lockheed Martin Commercial Launch Services and Mexico's Ministry of Communications and Transportation on today's successful delivery of the Morelos-3 satellite into orbit, providing advanced telecommunications throughout Mexico." said Jim Spornick, ULA vice president, Atlas and Delta Programs. "Today was an especially proud day for our team as we launched our 100th successful one-at-a-time mission since ULA was formed in 2006. Congratulations to the entire team including our many mission partners on this unprecedented achievement."



© Credit Julian Leek / JNN

United Launch Alliance (ULA) Atlas V rocket carrying the Morelos-3 mission for Mexico lifts off from Space Launch Complex 41 on Cape Canaveral Air Force Station, Florida at 6:28 a.m. EDT, Oct. 2, 2015. Credit: Julian Leek

So far everything is right on the money for the Boeing-built Morelos-3 satellite.

"The satellite, named Morelos-3, is transmitting initial on-orbit signals as it makes its way to its final orbital location within Mexico's new Mexsat system," Boeing reported.

This Atlas V rocket was launched in its V 421 configuration vehicle for only the fifth time. The rocket includes a 4-meter diameter payload fairing and two Aerojet Rocketdyne solid rocket motors attached to the Atlas booster. The Atlas booster for this mission was powered by the RD AMROSS RD-180 engine and the Centaur upper stage was powered by the Aerojet Rocketdyne RL10C-1 engine.

ULA is maintaining its steady pace of on time launches.



Contrail following blastoff of 100th United Launch Alliance (ULA) mission to orbit with Atlas V booster carrying the Morelos-3 mission for Mexico from Space Launch Complex 41 on Cape Canaveral Air Force Station, Florida at 6:28 a.m. EDT, Oct. 2, 2015. Credit: Julian Leek

The last launch of a ULA Atlas V from Cape Canaveral took place barely a month ago on Sept. 2 carrying the US Navy's MUOS-4 military tactical communication satellite to orbit.

The next Atlas V will launch on Oct. 8 with a secret spy satellite for the National Reconnaissance Office (NRO), from Vandenberg Air Force Base, Calif.

ULA is also developing the Vulcan rocket that will be much lower in

cost and much more competitive in price to meet the challenge from SpaceX.

Source: [Universe Today](#)

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