

## The International Science Center

Applauds the Incredible Groundbreaking Success of the  
Blue Origin

“New Shepard” - Space Vehicle Program  
*That has now changed forever  
the face of Space Travel as we know it !*

The ability to launch into space and to return safely  
to earth both the Launch Vehicle with it's Crew and  
Cargo intact is an unprecedented feat.

The International Science Center is honored to extend our  
“*Superior Achievement Award*”  
to Blue Origin for achieving this truly historic event !

Historic Rocket Landing - Nov. 23, 2015

<https://www.blueorigin.com/news/blog/historic-rocket-landing>



*Blue Origin's fully reusable New Shepard space vehicle rolls out to  
the launch pad at the company's West Texas launch site.*

Blue Origin is an American privately-funded aerospace developer and manufacturer  
established up by [Amazon.com](https://www.amazon.com) founder [Jeff Bezos](https://www.jeffbezos.com).

## Soar with Blue Origin

[HTTPS://WWW.BLUEORIGIN.COM/ASTRONAUT-EXPERIENCE](https://www.blueorigin.com/astonaut-experience)

Contact <https://www.blueorigin.com/> for latest certified information

## Blue Origin - “New Shepard” Space Vehicle



*Blue Origin's fully reusable New Shepard space vehicle rolls out to the launch pad at the company's West Texas launch site. (Blue Origin)*

### FLIGHT DETAILS

<https://www.blueorigin.com/news/blog/historic-rocket-landing>

- . Launched at 11.21 a.m. Central Time on Nov. 23, 2015
- . Apogee of 329, 839 feet (10.5 kilometers) for the crew capsule.
- . Mach 3.72
- . Deployment of crew capsule drogue parachutes at 20, 045 feet above ground level.
- . Re-ignition of rocket booster at 4,896 feet above ground level.
- . Controlled vertical landing of the booster at 4.4 mph
- . Landing of the crew capsule under parachutes at 11:32a.m. Central Time

Bezos says despite this flawless flight and landing, they are looking at improvements. Another attempt is expected in a number of weeks.

Blue Origin announced back in September it will base its Florida operations at Launch Complex 36 at the Cape Canaveral AFS.

## Blue Origin - “New Shepard” Space Vehicle



*Blue Origin's fully reusable New Shepard space vehicle rolls out to the launch pad at the company's West Texas launch site. (Blue Origin)*

As the quest for commercial space ventures to become reliable, cheaper and safe for people and cargo to head to low Earth orbit -- while NASA continues to explore deep space, Blue Origin has answered the call.

“To go to that altitude, bring it back, stick a landing like that, is something a lot of people have been trying to do. And no one has done it like that,” said Dale Ketcham of Space Florida.

Named in honor of the first American in space, Alan Shepard, the New Shepard vehicle will eventually carry six astronauts to altitudes beyond 100 kilometers, which is the internationally recognized boundary of Space.

The vehicle features two elements – a Crew capsule in which the astronauts ride and a rocket booster powered by a single American made BE-3 liquid hydrogen, liquid oxygen booster.

At liftoff, the BE-3 delivers 110,000 pounds of thrust. During ascent, astronauts experience three times the force of gravity as the spacecraft accelerates through the atmosphere.

**[This info. only file not valid after Nov. 27, 2015.](#)**

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## Blue Origin - “New Shepard” Space Vehicle

Bezos later called this one of the best days of his life.

A big part of this effort is reusability -- which will drastically cut down on the cost of going to space to the tune of millions of dollars per mission.

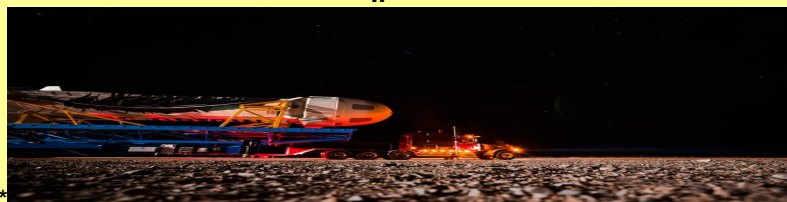
The company is expected to build and launch its reusable rockets later this decade.

Blue Origin beats fellow private company SpaceX to the punch.

That company's CEO and founder, Elon Musk, and team had attempted unsuccessful booster landings on an ocean barge during missions launched from the Space Coast -- which are much more difficult due to payloads on board requiring much more thrust.

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## Blue Origin - “New Shepard” Space Vehicle



### Video Gallery from Blue Origin

<https://www.blueorigin.com/#youtuberEdk-XNoZpA>

### First Flight - April 29, 2015

[Click on ‘First Flight’ at top of Video Selection Block](#)

<https://www.blueorigin.com/#youtuberEdk-XNoZpA>

### Soar with Blue Origin

[Click on ‘Soar with Blue Origin’ on the Video Selection Block](#)

### Opening Space

[Click on ‘Opening Space’ on the Video Selection Block](#)

### 307,000 Feet

[Click on ‘307,000 Feet’ on the Video Selection Block](#)

### Blue Origin Astronaut Experience

[Click on ‘Blue Origin Astronaut Experience’ on the Video Selection Block](#)

### T-2 DAYS: ARRIVAL IN WEST TEXAS

<HTTPS://WWW.BLUEORIGIN.COM/ASTRONAUT-EXPERIENCE>

Two days before your flight, you’ll travel with your guests to the *New Shepard* launch site in the beautiful high desert plains. The area’s isolation lends clarity and focus as you prepare for the experience of a lifetime.

### T-1 Day: Training

The day before launch, you’ll learn everything you need to know to make the most of your experience as an astronaut. The active and fun day-long session will help you feel comfortable and prepared for space flight and your responsibilities as an astronaut.

Training includes mission and vehicle overviews, in-depth safety briefings, mission simulation, and instruction on your in-flight activities such as operational procedures, communications, and maneuvering in a weightless environment.

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**T-2 DAYS: ARRIVAL IN WEST TEXAS**

**[HTTPS://WWW.BLUEORIGIN.COM/ASTRONAUT-EXPERIENCE](https://www.blueorigin.com/astonaut-experience)**

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**T-2 days**

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### Video Gallery from Blue Origin

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T-1 day Training

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**Blue Origin - “New Shepard” Space Vehicle**

**T-30 minutes: The Morning of**



As the sun rises over the launch site, we'll complete final pre-launch check and clear you for flight. Anticipation mounting, you'll ascend the launch tower step-by-step to the rocket, climb through the hatch and prepare for countdown. After you're strapped in, you'll receive final clearance to launch and conduct a final communications & readiness check.

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## Blue Origin - “New Shepard” Space Vehicle

### Liftoff: The Main Event – Spaceflight



#### LIFTOFF: THE MAIN EVENT – SPACEFLIGHT

The combined capsule and booster will launch vertically from the launch pad. You'll accelerate, experiencing over 3 Gs for 150 seconds before the booster engine cuts off, and the vehicle glides into space. You'll communicate with Mission Control about altitude, speed, time, and G force as the Earth retreats through your window.

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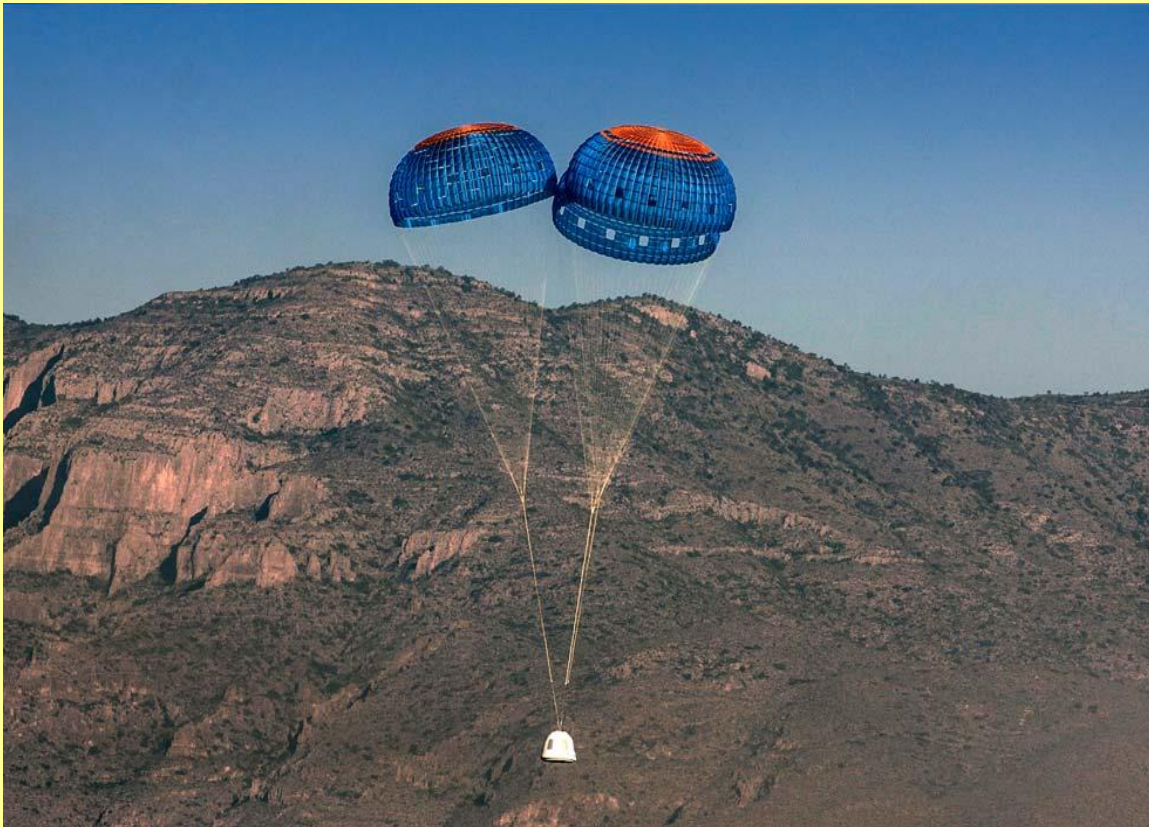
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## **Blue Origin - “New Shepard” Space Vehicle** **Post-flight: Beyond Your Flight**

Before descent, a signal will direct you to return to your seat and strap in. You’ll experience peak forces of over 5 Gs before parachutes deploy and thrusters fire to reduce your speed for a soft landing back on Earth. You’ll land just miles from where you launched.



Your journey is hardly over at landing. We’ll help you capture and remember your experience with high definition videos, pictures, and mementos from your flight. You can share these with friends and family for a lifetime.

You’ll also belong to an exclusive Blue Origin alumni network—a community of modern space pioneers. Make history with a sub-orbital flight, and you will receive early access to purchase tickets for our future orbital missions.

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