

Skydiver Fearless Felix jumps from 18 miles up

July 25 2012, by MARCIA DUNN



In this Thursday, March 15, 2012 photo provided by Red Bull Stratos, Felix Baumgartner prepares to jump during the first manned test flight for Red Bull Stratos over Roswell, N.M. On Wednesday, July 25, 2012, the 43-year-old Austrian plunged to Earth from an altitude of more than 18 miles landing safely near Roswell, N.M. It's was second stratospheric leap for "Fearless Felix." He's aiming for a record-breaking jump from 125,000 feet, or 23 miles, in another month. He hopes to go supersonic, breaking the speed of sound with just his body. (AP Photo/Red Bull Stratos, Jay Nemeth)

Skydiver "Fearless Felix" Baumgartner has done it again.

On Wednesday, Baumgartner took another stratospheric leap, this time from an altitude of more than 18 miles (29 kilometers) — an estimated 96,640 feet (29,456 meters), nearly three times higher than cruising jetliners. He landed safely near Roswell, New Mexico. His top speed was an estimated 536 mph (862.5 kph), said Brian Utley, an official observer on site.

It's the second test jump for the Austrian-born Baumgartner from such extreme heights and a personal best. He's aiming for a record-breaking jump from 125,000 feet (38,100 meters), or 23 miles (37 kilometers), in another month. He hopes to go supersonic then, breaking the speed of sound with just his body.

"It has always been a dream of mine," Baumgartner said in a statement following Wednesday's feat. "Only one more step to go."

Longtime record-holder Joe Kittinger jumped from 102,800 feet (31,333 meters) — 19.5 miles (31.38 kilometers) — in 1960 for the Air Force. Kittinger monitored Wednesday's dry run from a mini Mission Control in Roswell.

As he did in March, the 43-year-old ascended alone in an enclosed capsule lifted by a giant helium balloon that took off from Roswell. He wore a full-pressure suit equipped with parachutes and an oxygen supply — there's virtually no atmosphere that far up.

It took about 1½ hours to reach his target altitude. He was in free fall for an estimated three minutes and 48 seconds before opening his parachutes.

"It felt completely different at 90,000 feet," Baumgartner noted. "There is no control when you exit the capsule. There is no way to get stable."

In March, Baumgartner jumped from 71,581 feet (21,818 meters), more than 13 miles (20.9 kilometers), saluting before stepping from the capsule. Bad weather earlier this week delayed the second test jump until Wednesday.

NASA is paying close attention to this Red Bull-funded project dubbed Stratos, short for stratosphere. The space agency wants to learn all it can about potential escape systems for future rocketships.

Baumgartner won't come close to space, even on the ultimate jump that's planned for late August or early September. Space officially begins at 100 kilometers, or 62 miles — more than 328,000 feet.

Baumgartner, a former military parachutist and extreme athlete, has jumped more than 2,500 times from planes and helicopters, as well as from skyscrapers and landmarks, including the 101-story Taipei 101 in Taiwan.

Kittinger, who turns 84 on Friday, was an Air Force captain when he made his historic jump for what was called Project Excelsior. He reached 614 mph (988 kph) on that dive, equivalent to Mach 0.9, just shy of the sound barrier.

Baumgartner expects to accelerate to 690 mph (1,110 kph) on his final plunge.

More information:

Red Bull Stratos: www.redbullstratos.com/

National Museum of the U.S. Air Force: tinyurl.com/2dsnn6

Copyright 2012 The Associated Press. All rights reserved. This material may not be published, broadcast, rewritten or redistributed.

Citation: Skydiver Fearless Felix jumps from 18 miles up (2012, July 25) retrieved 27 April 2024 from <https://phys.org/news/2012-07-parachutist-stratospheric.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.