



The Chacaltaya Time Logger Mission

The Chacaltaya Time Logger is part of a worldwide science project called the Ovante Time Study. The goal is to see if time behaves exactly the same everywhere on Earth, or if it can change a little bit depending on where you are or what's happening in space above us.

Why Chacaltaya?

Chacaltaya Observatory is in Bolivia, high up in the Andes Mountains—more than 17,000 feet above sea level! It's one of the highest science labs in the world. Because it's so high, the air is very thin and the sky is clear, which makes it a great place to study cosmic rays—tiny bits of energy that come from outer space.

What the Time Logger Does

The Time Logger is a small computer that runs all on its own. It:

- Keeps very accurate time using satellites in space (like GPS).
- Measures the air pressure, temperature, and humidity.
- Watches how the magnetic field around Earth changes.
- Saves this information every minute and a half.

Why It Matters

By comparing data from Chacaltaya with data from other places around the world, scientists can see if time, air pressure, or magnetic changes happen at the same time. This could help us learn more about how the Earth, space, and time are connected.

In Simple Terms

We're using special computers to watch how time and energy behave in different parts of the world. Chacaltaya is an exciting part of this project because it's closer to space than almost anywhere else on Earth!