

A composite image featuring a rocket launch at night, a water tower, and a field of reeds. The rocket is launching vertically, leaving a bright, fiery trail that extends down towards the horizon. The launch is set against a dark, deep blue night sky. In the foreground, a body of water reflects the light from the rocket's trail. To the right, a tall, slender water tower stands prominently. The background is filled with a dense field of tall, golden-brown reeds or grasses, which are slightly out of focus. The overall scene is a surreal juxtaposition of natural and technological elements.

KNOW BEFORE YOU GO.

Image Credit: NASA/Bill Ingalls



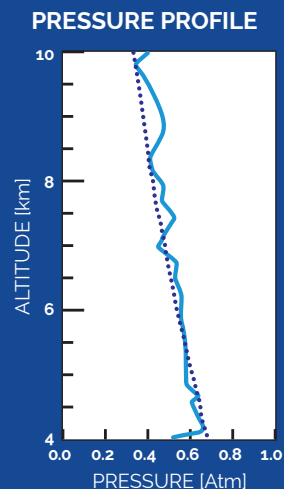
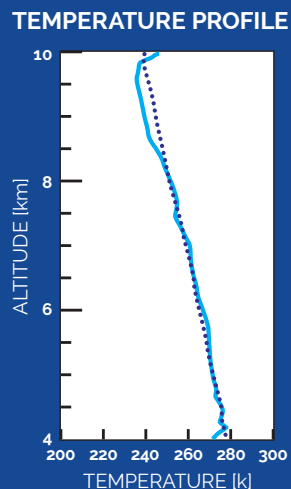
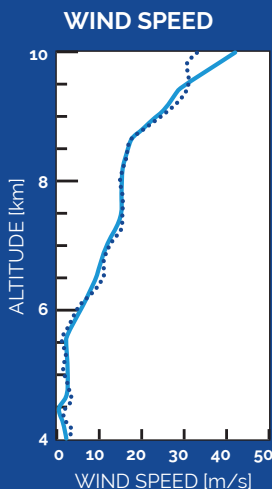
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Wind shear, clear air turbulence, and wind veer events may not sound threatening, unless your launch vehicle or aircraft is flying through them.

Introducing AeroForecast™

The world's most advanced Light Detection and Ranging (LIDAR) system that measures wind speed, direction, temperature, density, water vapor, and other properties *simultaneously* to give you the most accurate picture of the atmosphere – before you fly into it.

Using a patented Ultraviolet (UV) detection method, AeroForecast provides real-time, continuous measurements, day and night, upwards of 50km. Measurements can be made in completely clear air, with or without the presence of aerosols. Competing LIDAR technologies can only guarantee measurements where there are aerosols, often not much higher than the boundary layer.



AeroForecast technology allows for the recording of wind measurements at the highest altitude of any ground-based LIDAR. We are the only company on the planet to provide these measurements from space, airborne and ground assets. Beginning with ground stations in New Hampshire and on Mauna Loa, we are now delivering fully autonomous, transportable solutions as shown in the figure on the right.

AeroForecast technology is customizable and scalable to meet your exact data collection needs, whether for short range or long.



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