

Introducing the Boundary Layer Network

Real-time Profiles of the Atmosphere's Most Turbulent Layer

Real-time & Continuous Observations

Temperature, humidity and liquid profiles of the boundary layer and above are updated every six minutes. The BLN's increased update frequency over existing radiosonde networks, which typically release balloons just twice a day, improves model accuracy and operational decision-making.

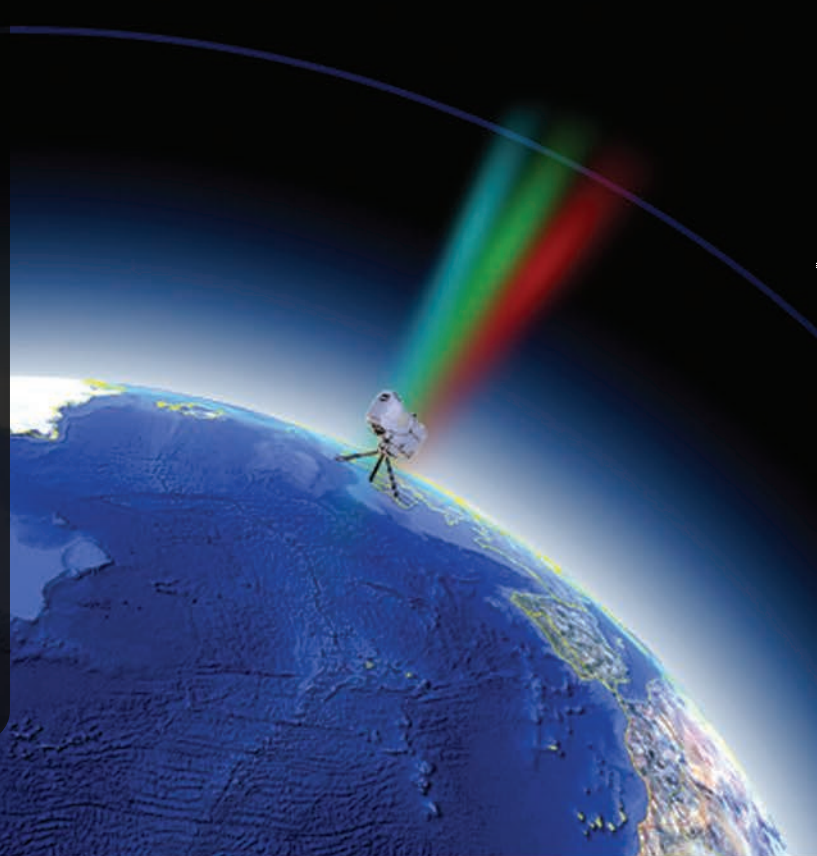
Earlier Warning of High-Impact, Local Weather

Improved information about the instability of the atmosphere enables advanced notification of convective initiation that leads to severe thunderstorms and tornadoes. The BLN is a critical tool in the battle to increase the speed and accuracy of severe weather warnings.

Better Forecasts, Better Decisions

Continuous observations of the boundary layer from fixed locations feed mesoscale models hungry for real-time, localized data. The result is improved forecasts and better decision-making across numerous industries including utilities, wind, solar, aviation, air quality and water management.

- > Data for Improved Local Forecasts & Decision-Making
- > Initial Deployment in California, Spring 2012
- > 100 Radiometers Across the U.S. in the Next 3 Years



Utilities

Wind

Solar

Aviation

Air Quality

Water Management