Because LAMS Provides an Accurate Measurement of Airspeed:

1. **Airspeed uncertainty:** reduced from ≈ 0.5 m/s to $\lesssim 0.1$ m/s

2. **Pressure uncertainty:** reduced from ≈ 1 mb to $\lesssim 0.15$ mb:
   - (a) Uncertainty arises from effects of airflow at static ports;
   - (b) Total pressure (dynamic + static) is measured accurately;
   - (c) The dynamic pressure arising from airspeed is predicted accurately by LAMS; so
   - (d) Pressure = (total-dynamic) pressure has reduced uncertainty

3. **Temperature uncertainty:** reduced from $> 1°$C to about $0.3°$C.
   - (a) Accurate altitude from GPS is available;
   - (b) With improved measurement of pressure, integration of the hydrostatic equation during climbs and descents produces a usable independent measurement of temperature;
   - (c) Combining many such climbs and descents yields a new calibration of the temperature sensors.