

Committed to helping the **Aviation Industry** take action on *climate change*

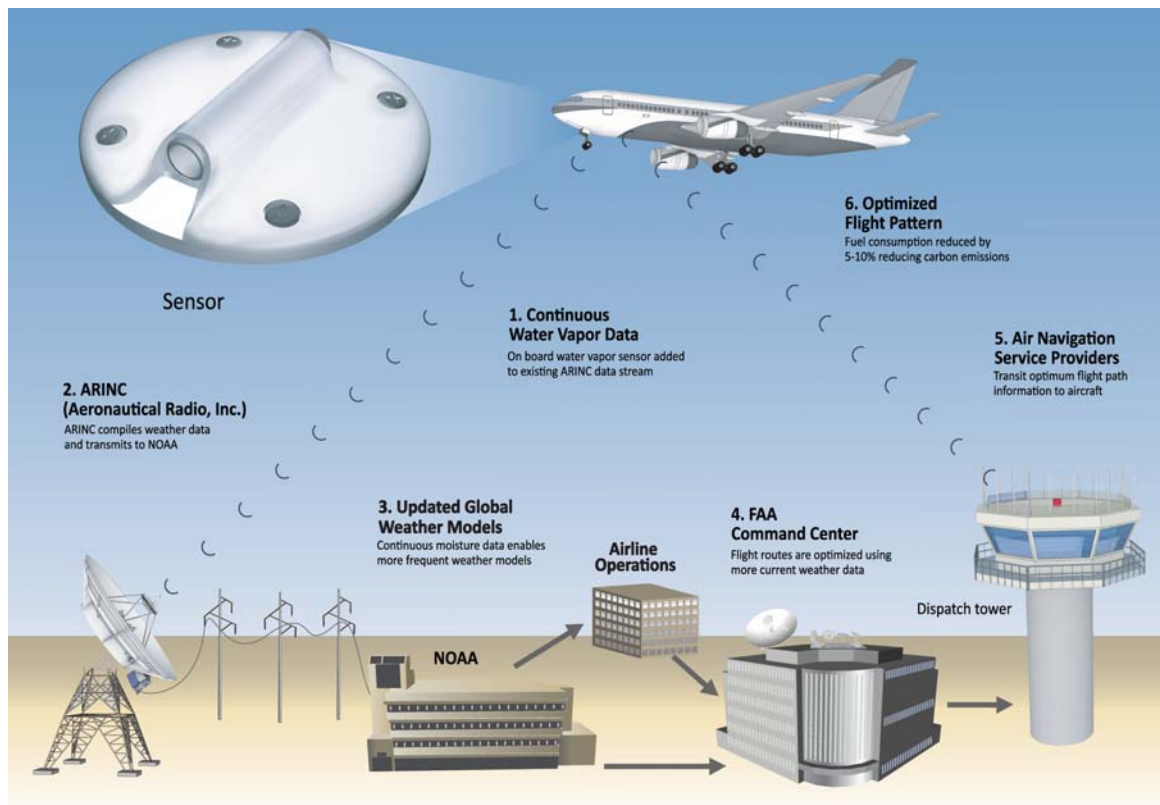
The Aviation community wants to do its part in reducing (CO₂) emissions. With Climate Change becoming a serious issue facing mankind and fuel costs rising, SpectraSensors, Inc (SSI) has developed a means to provide atmospheric Water Vapor data needed by the worlds Meteorological and Hydrological Services to dramatically improve upper air weather observation and overall prediction. The results will be increased societal and economic benefits, including a reduction in CO₂ emissions and a reduction in aviation fuel consumption and costs.

Atmospheric water vapor affects virtually every aspect of aviation weather. It has an important role in the stability of the atmosphere, leading to Severe Weather outbreaks. While winds and temperatures can readily be obtained from the aircraft, atmospheric water vapor is only available twice a day from weather

balloons. The SpectraSensors WaterVapor Sensor System (WVSS) enables up-to-date water vapor information to be collected from aircraft platforms in a compact, low weight configuration.

Improved weather modeling and optimal aircraft routing will have a number of benefits for the aviation industry. For example, eliminating just 60 seconds off of each flight would reduce CO₂ emissions by 5.0 tons per year and save the industry \$3.8 billion in fuel on a worldwide basis.

Contact SpectraSensors today to learn more about the WVSS system and its role in helping the aviation industry with improved safety, fuel savings and reduced CO₂ emissions.



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