Originating Technology/NASA Contribution

- Supercooled droplets in the atmosphere can form layers of ice on aircraft surfaces, reducing performance and even leading to catastrophic loss of control.
- Glenn has led NASA efforts in developing anti-icing technologies to enhance aircraft safety.

Partnership

- Small Business Innovation Research (SBIR) contracts with Radiometrics led to the creation of a radiometer for detecting icing conditions along flight paths.
- Radiometrics commercialized a modular radiometer originally developed under the SBIR agreements.

Product Outcome

- Radiometrics’ radiometers provide profiling of atmospheric conditions that define local weather, improving short-term weather forecasting.
- The devices detected situations for weather modification at the 2008 and 2010 Olympics.
- The radiometers are also employed for soil moisture, snow, and sea surface measurements.