

Jorgen Jensen: RAF INSTRUMENT STATUS:

Thermodynamics: Static pressure, 4x temperature (heated, slow), 2x cooled mirror dewpoint sensors, VCSEL hygrometer (fast)

Winds: Dynamic pressure, attack and sideslip angles => 3D wind and turbulence

Navigation: 2x inertial navigation systems, GPS with Omnistar differential correction (fast) => Altitude, Lat/Lon, ground speeds, attitude angles

Aerosol: CN TSI 3760 (dia. > 11 nm), UHSAS (0.07 – 1 µm dia.), GNI giant aerosol impactor (1.5 – 30 µm dia.) [ARISTO test]

Cloud and precip: CDP (2 – 47 µm dia.),  
2DC-25 µm (60 – 1600 µm dia., images) [or 2DC-10 µm ??],  
icing rate (RICE), cloud liquid water content (King probe)

SST: Heimann remote surface temperature

Digital imagery: Forward (1 fps)

Radiation (health): ARMAS FM2 total ionizing dose