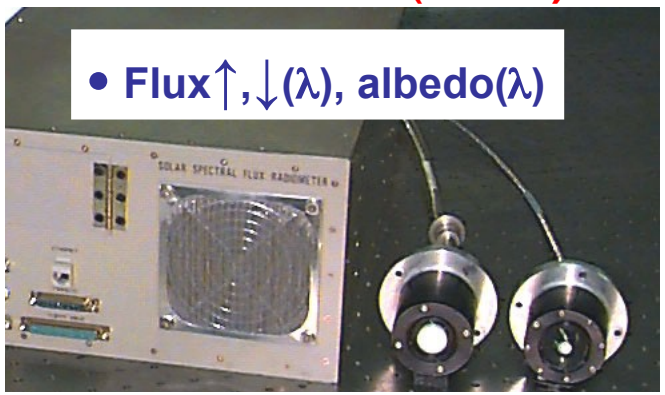
# P-3 in ARCTAS: Payload

## Ames Airborne Tracking Sunphotometer (AATS)

- AOD
- Ext
- $H_2O$ vapor

## Solar Spectral Flux Radiometer (SSFR)




- Flux↑,↓(λ), albedo(λ)

## Broad-Band Radiometers (BBR)

LW SW

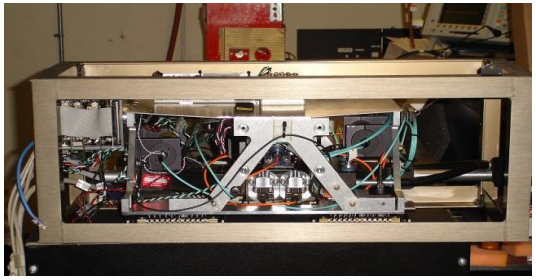
- Flux↑,↓, albedo

## HiGEAR Aerosols

- OPC & DMA dry size dist, volatility
- Tandem Volatility DMA
- Neph scat + PSAP abs
- Humidified Neph f(RH)
- Ultrafine & CN
- Time of Flight Mass Spec size resolved chemistry
- SP2 black carbon mass

## AERO3X

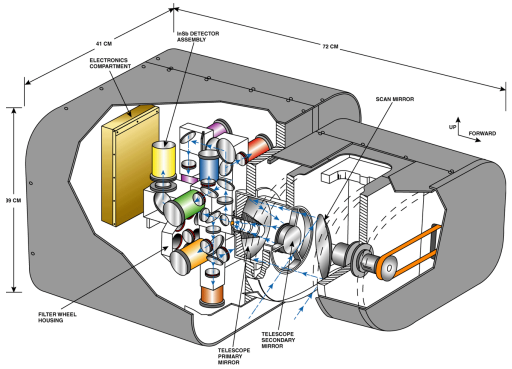
- Cavity Ringdown ext (2λ)
- Reciprocal Neph sca (2λ, RH



- Nenes CCN
- PVM cloud drop $r_{eff}$
- TECO $O_3$

## Cloud Absorption Radiometer (CAR)

- Radiance, BRDF




## Navigation

## Meteorology: P, T, RH, …

## REVEAL