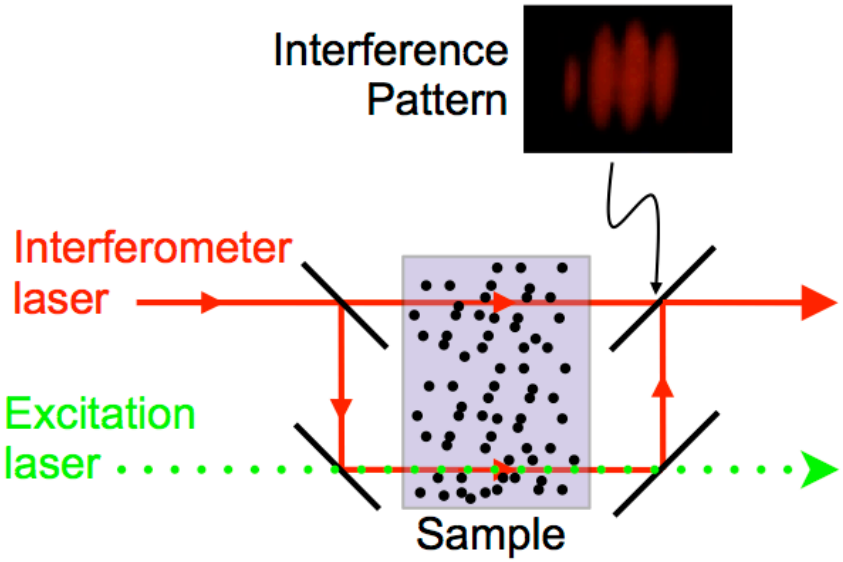
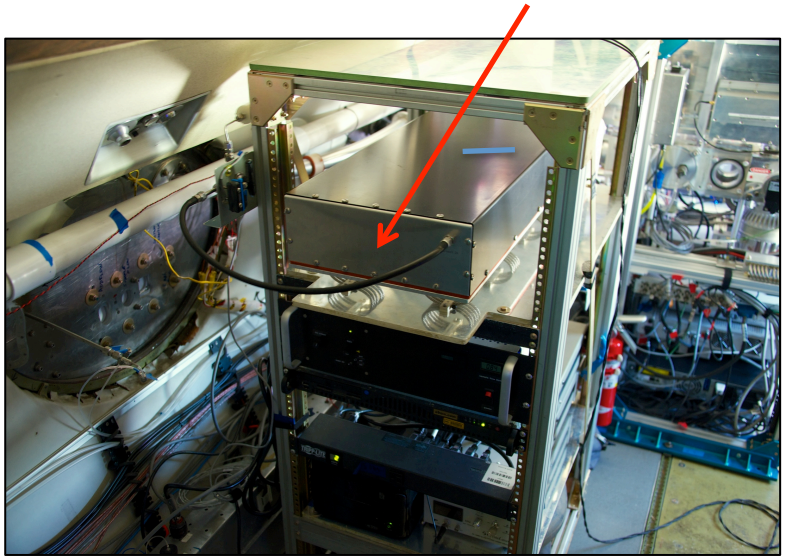
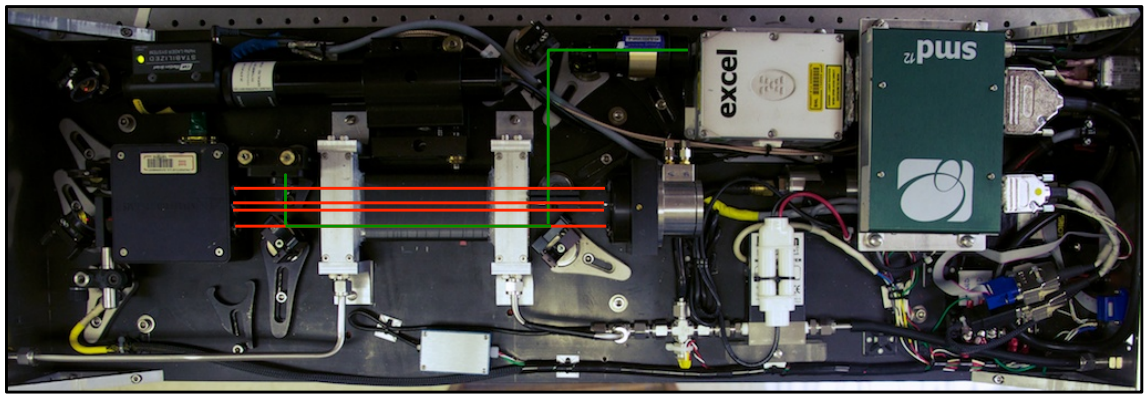
Photothermal Interferometry

Measurement of aerosol light absorption is central to bounding the contribution of the direct effect to aerosol radiative forcing.



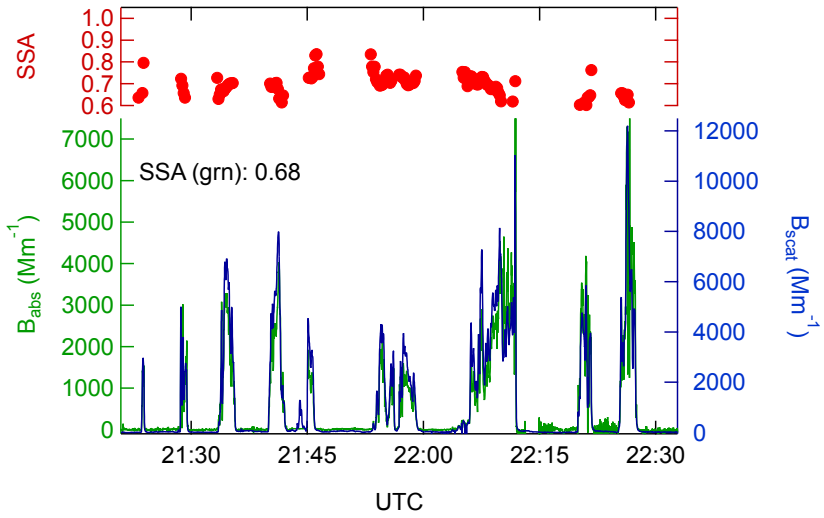
PTI deployed in G-1



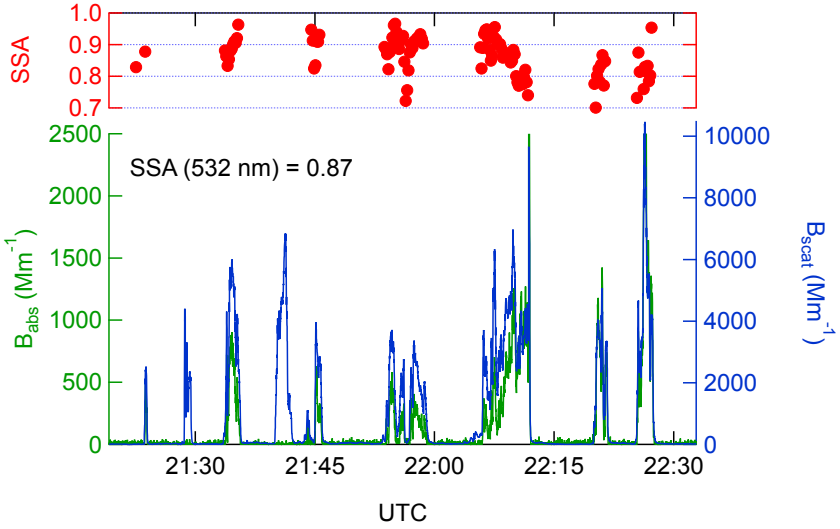


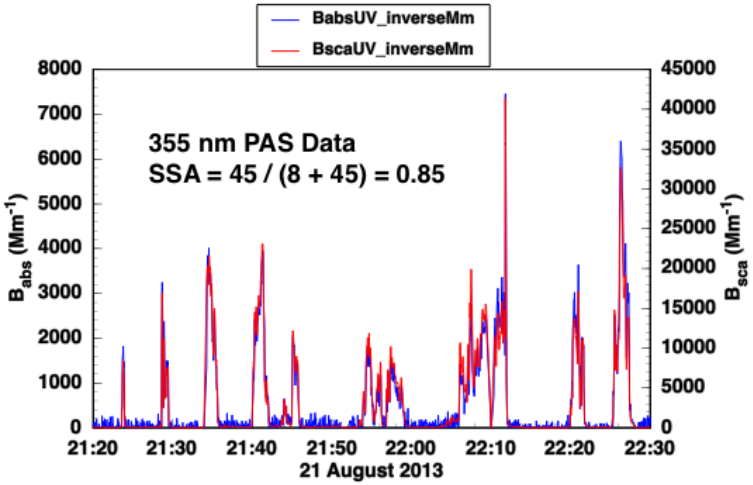
Sticking with Government Flats Fire (2013-08-21b)

PSAP/Neph



PTI/Neph





SSA (355 nm): 0.85
SSA (522 nm): 0.68
SSA (532 nm): 0.87

SAE (355-522 nm): ~ 3.1
AAE (355-522 nm): ~0.7 (PSAP artifacts)
AAE (355-532 nm): 1.8 - 3.2

$R_{PSAP/PTI}$ = 3-4