

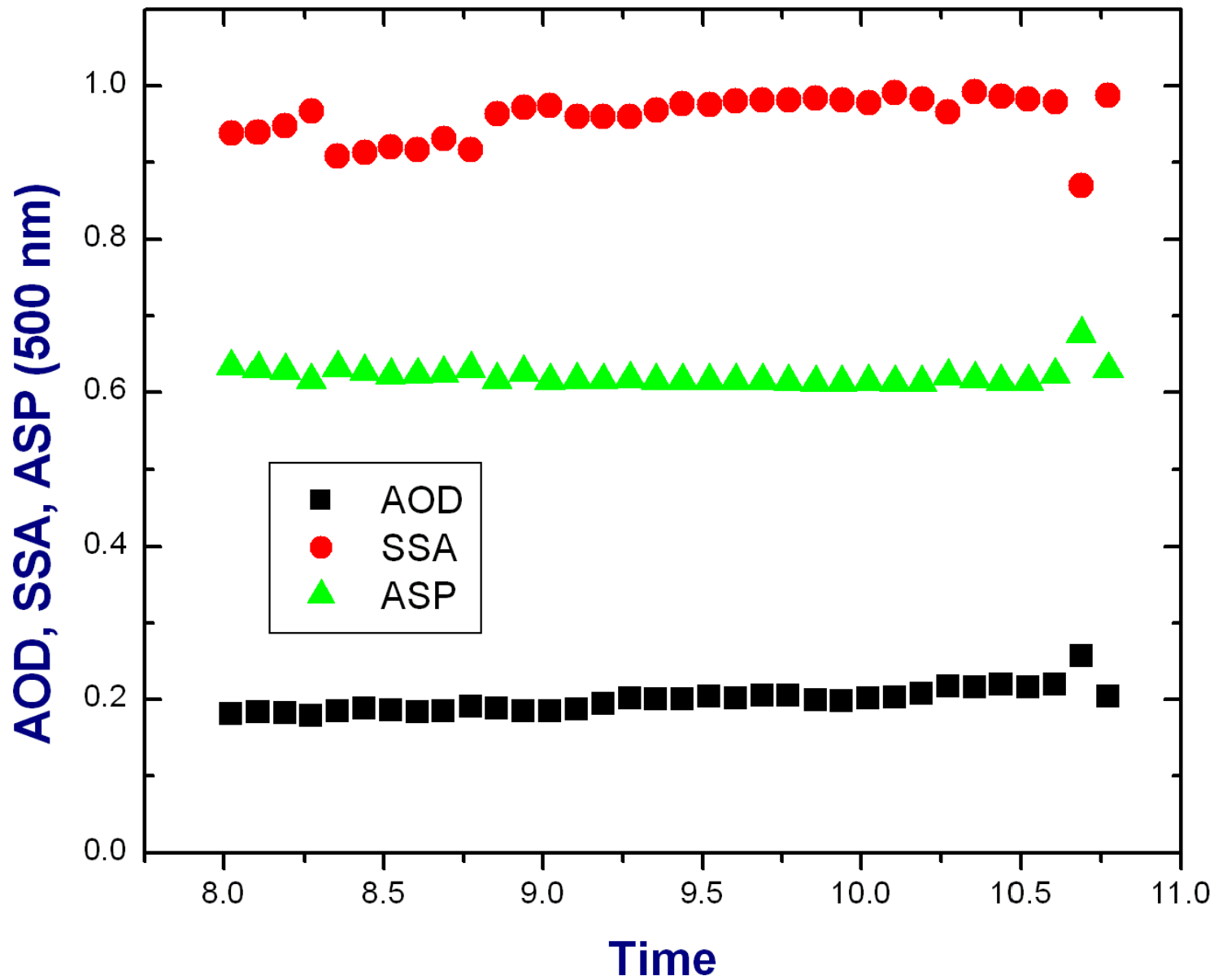


Aerosol Lifecycle Working Group Value-Added Product Activities

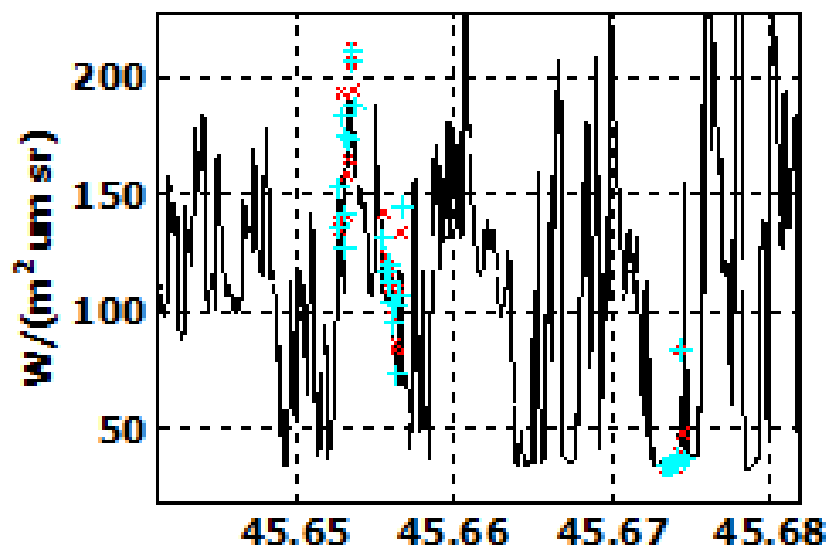
Routine, semi-routine, and evaluation
ASR Annual Science Team Meeting 2013

ALC WG Translator team: C Flynn, J. Fast, J Barnard, B Ermold, E Kassianov, A Koontz, Y Shi, C Sivaraman, T. Shippert

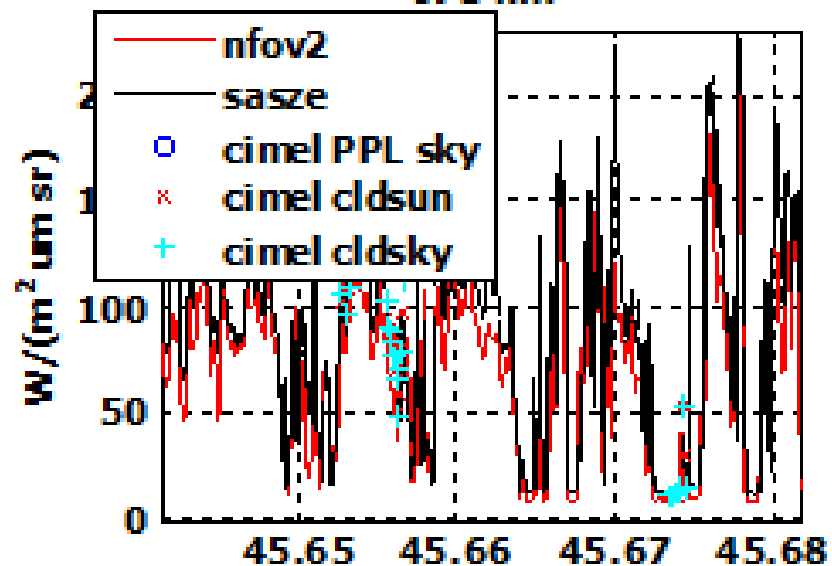
Acknowledging ARM instrument mentors:
A Aiken, M Dubey, C Flynn, L Gregory, G Hodges, A Jefferson,
P Kiedron, J Michalsky, A Sedlacek, G Senum, S Springston



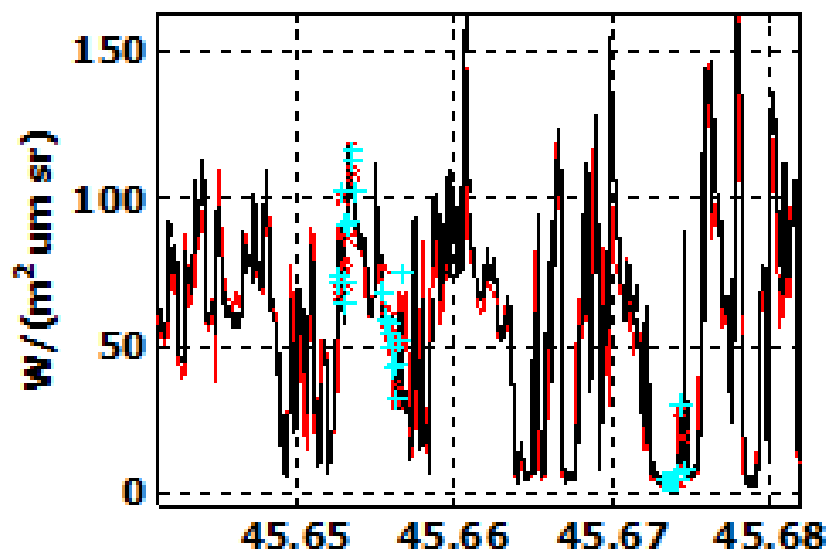
500 nm



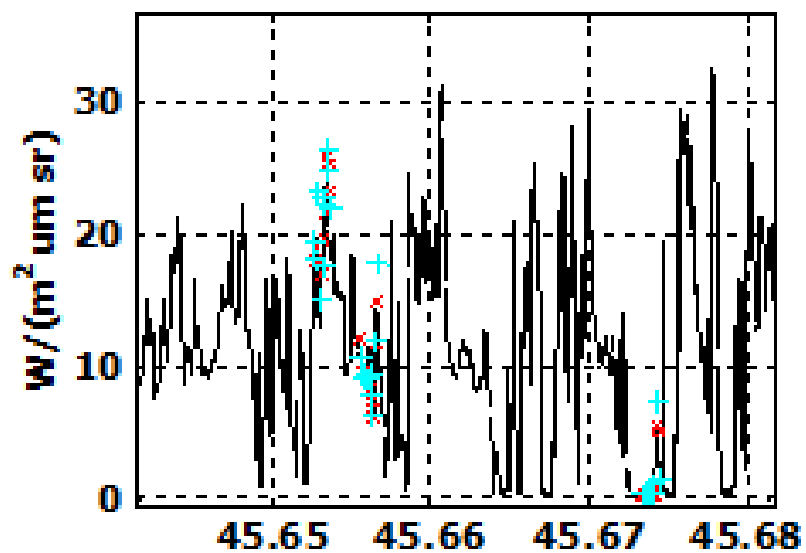
673 nm



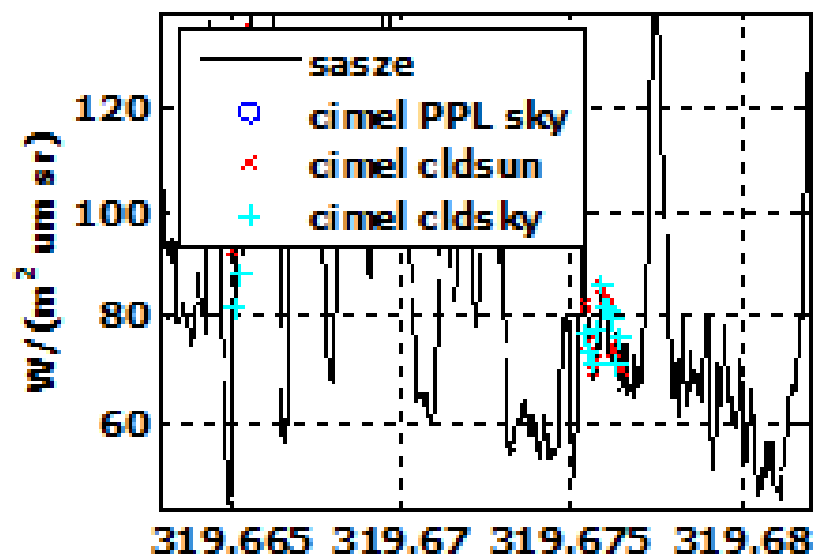
870 nm



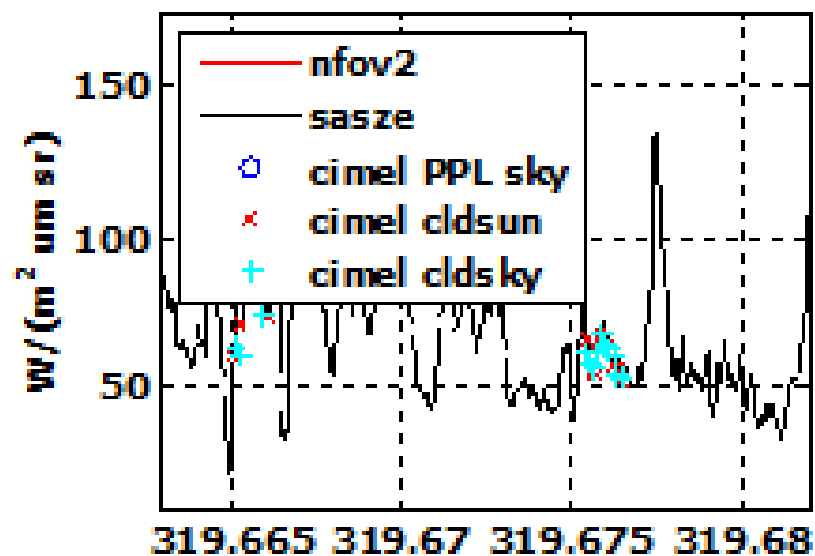
1640 nm



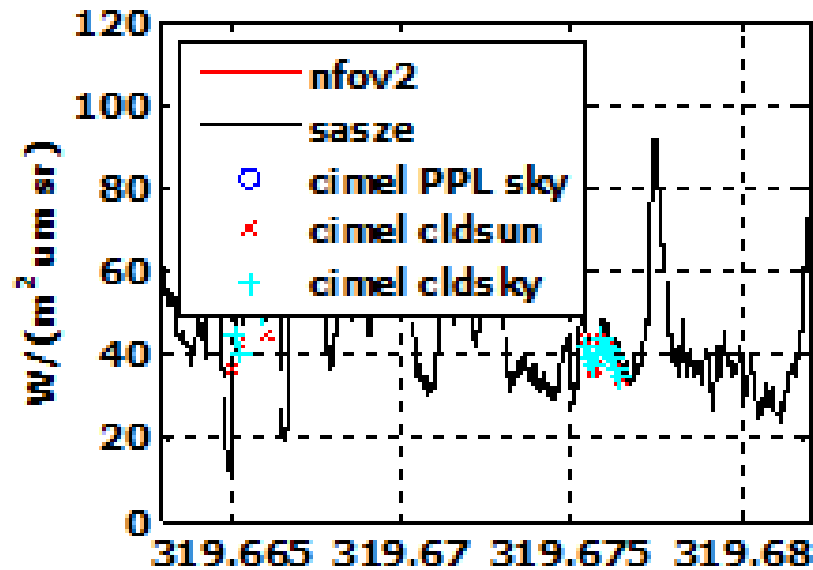
500 nm



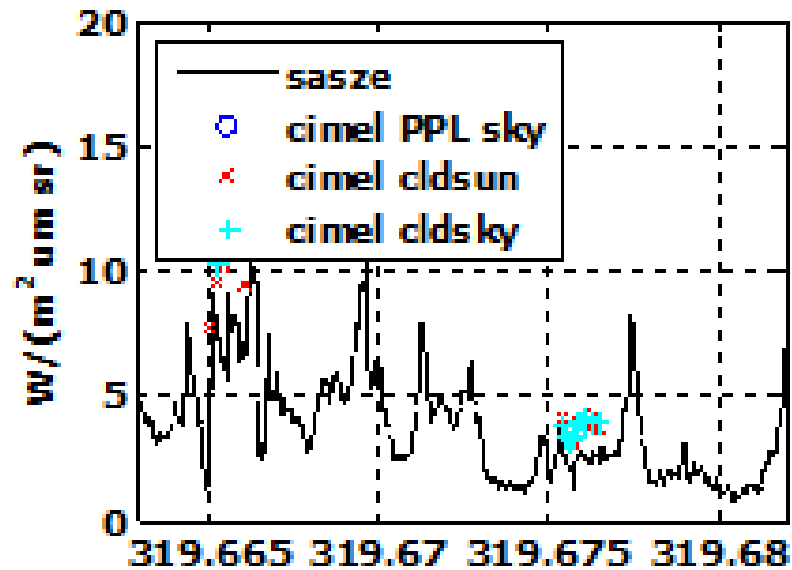
673 nm



870 nm



1640 nm



Proposed changes to Aerosol Best-Estimate “ABE”

- ABE yields col AOD & AE and profiles of SSA, g , $\text{ext}(z)$ from lidar climatology.
- Only for SGP, NSA
- Propose splitting into two distinct pieces:
- **ABE sfc_col**: run as a core product
- ABE prof: run selectively
 - Include “actual” lidar data, when available
 - Include AIP data?
 - Generate for AAF campaigns?

Proposed changes to Aerosol Best-Estimate “ABE”

■ ABE sfc_col:

- Assess available AOD, AE
- Include col intensive props.
- Include AOS props.

■ ABE prof:

- Include “actual” lidar profiles.
- Include AIP airborne profiles.
- Include AAF G1 Field Campaign profiles

Other potential efforts?

- MFRSR CIP at PVC for TCAP
- SAS-He CIP, improve coarse mode?
- SASUP, spectral sfc albedo?

- MFRSR AOD: improved cloud-screen NSA
- MFRSR AOD: PGH, GAN, PVC, GRW S1
- CCN_Avg (part 1?) **User feedback please!**
- MFRSR CIP: Col. Intensive Props SSA, g, bimodal size dist. SGP all of 2011. **Review pls!**
- SAS-He AOD (350-1000 nm, 970-1700 nm, and mfr filters bands, **Review pls!**
- SAS-Ze radiances (350-1000 nm, 970-1700 nm, and filterbands)