

Bremer
AErosol *iup* Algorithm
Retrieval



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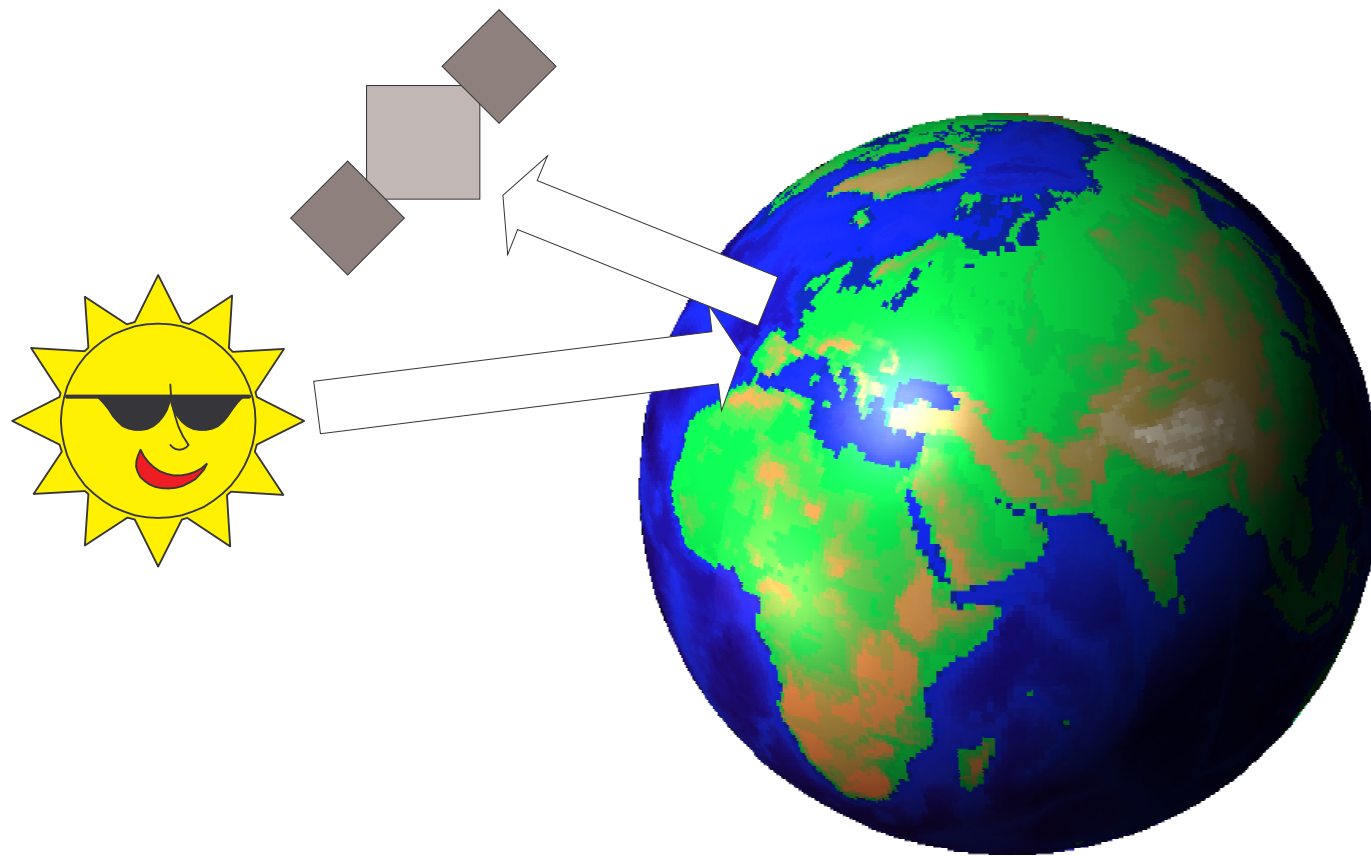
wolfgang von hoyningen-huene

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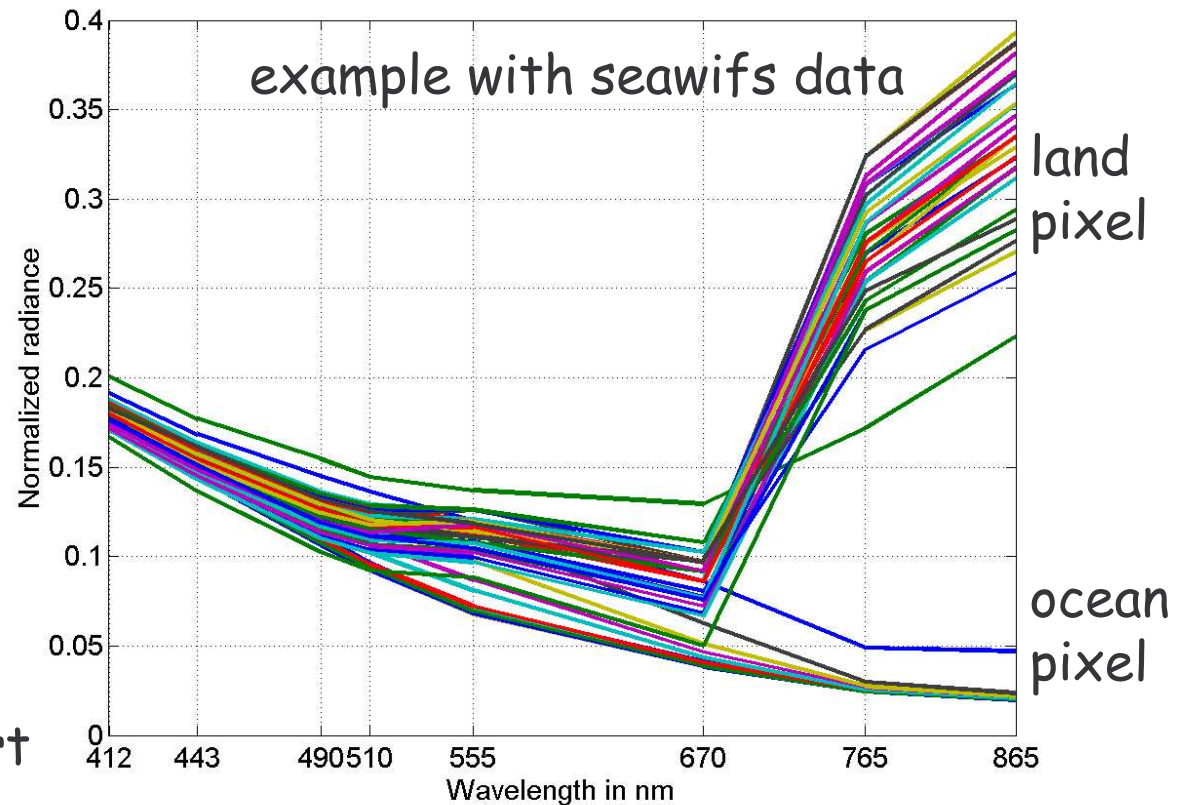
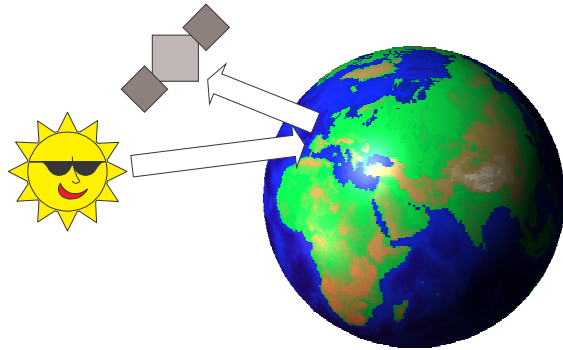
Summary

- quick explanation
- transfer to sciamachy: selection of spectral windows
- remarks to spatial resolution
- some plots

BAER Quick explanation 1

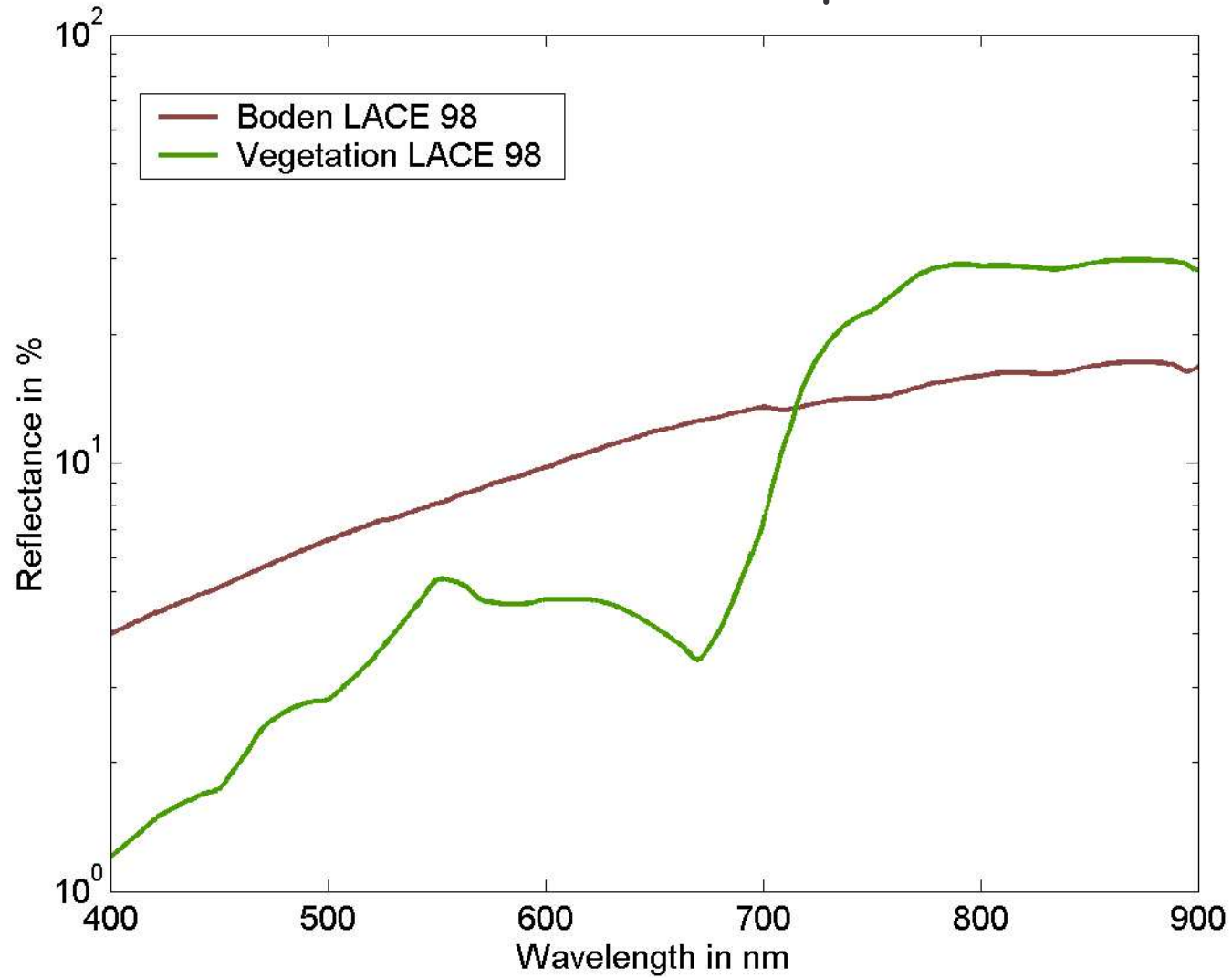


quick baer explanation

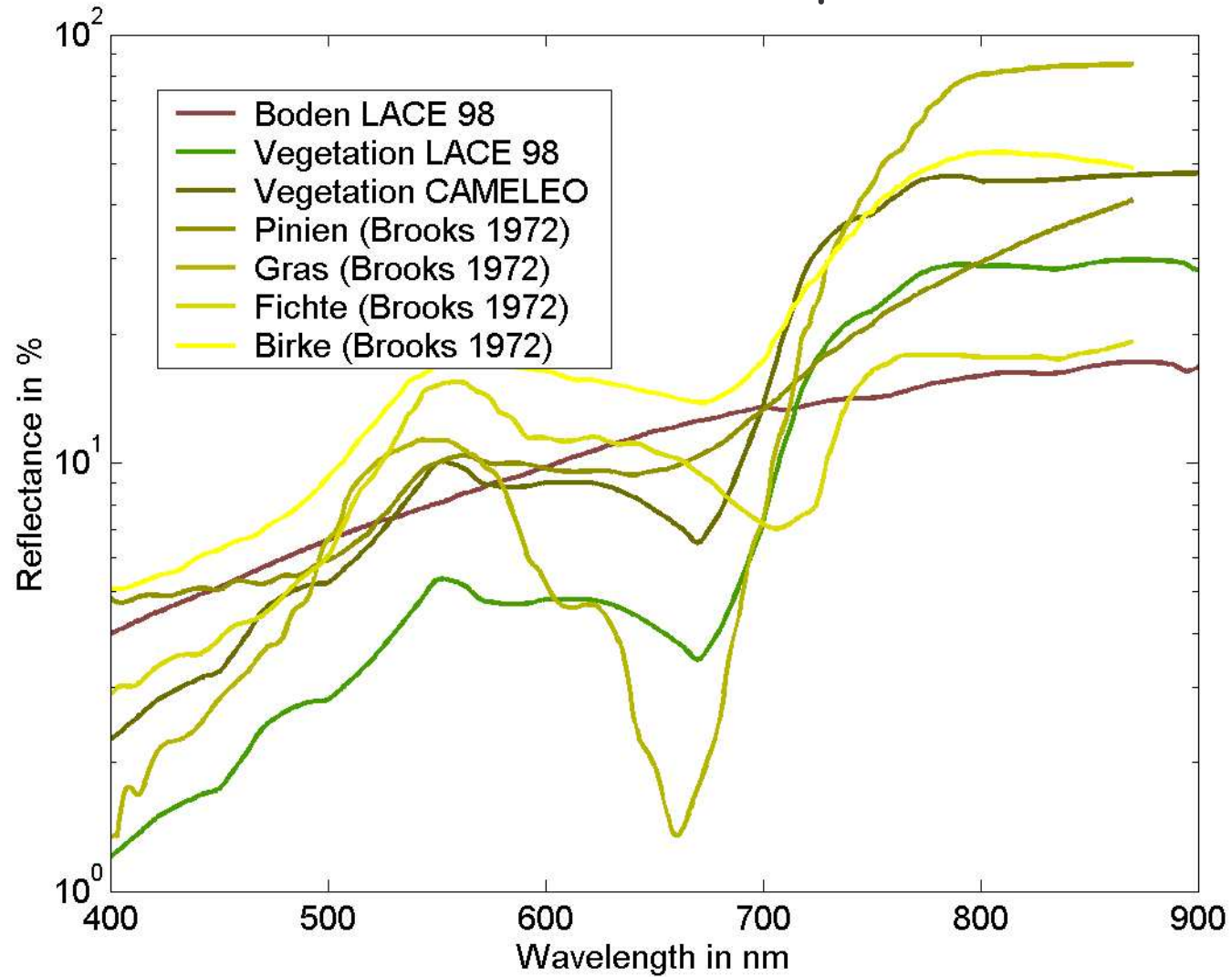


- Estimate Rayleigh part (Elevation Database)
- Estimate surface reflectance
- -> Calculate 'aerosol reflectance'
- -> Calculate AOT (Aerosol Optical Thickness)

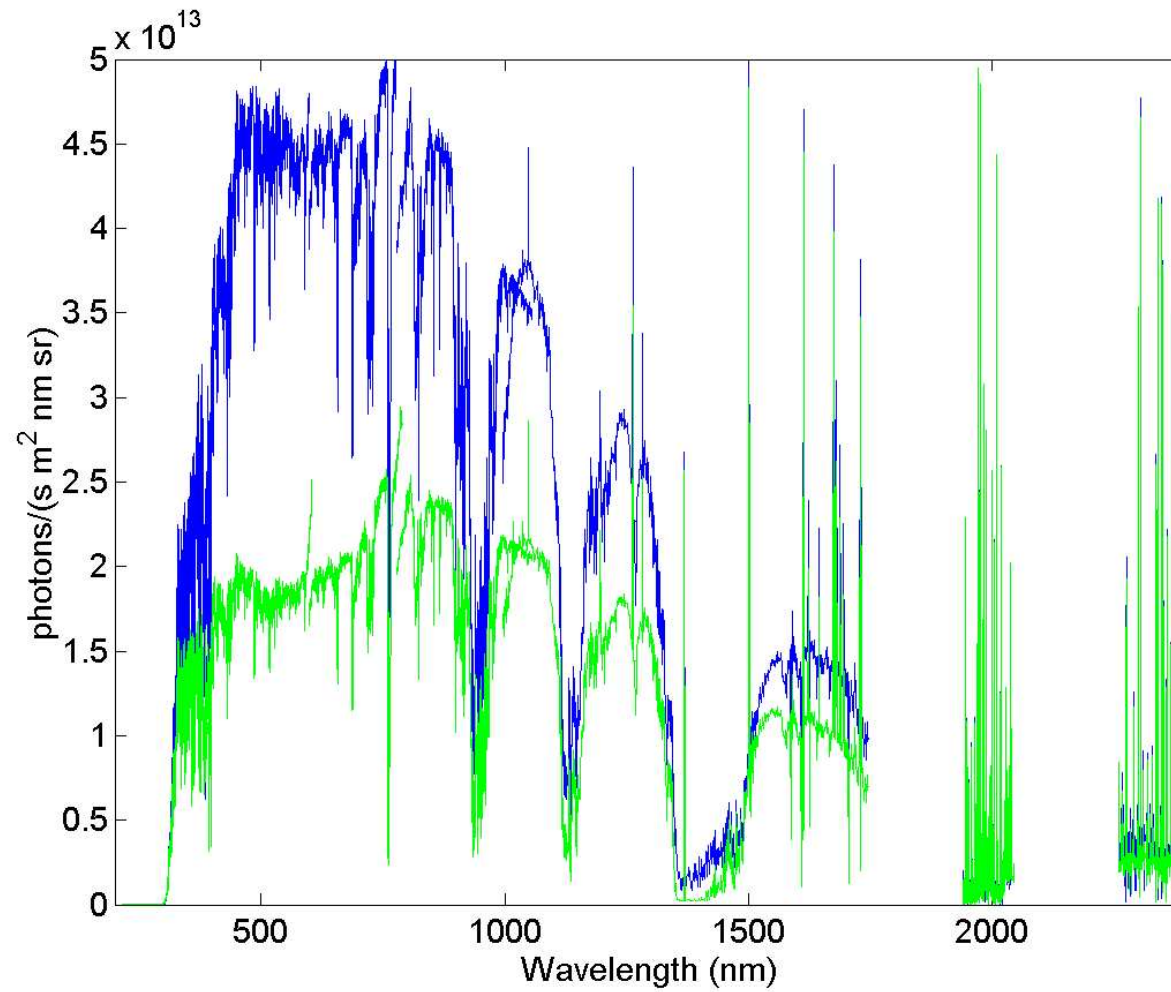
Surface reflectance spectra 1



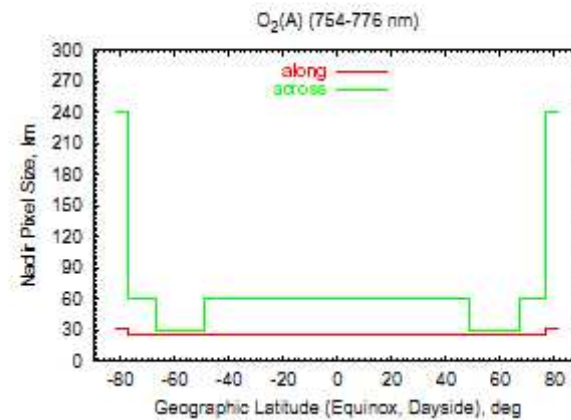
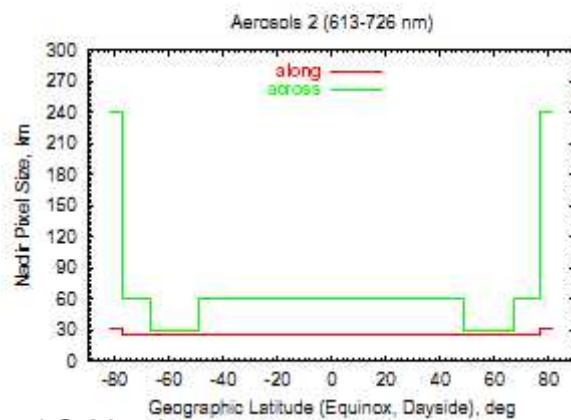
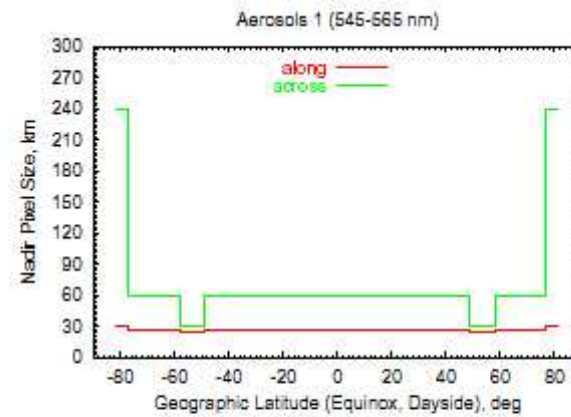
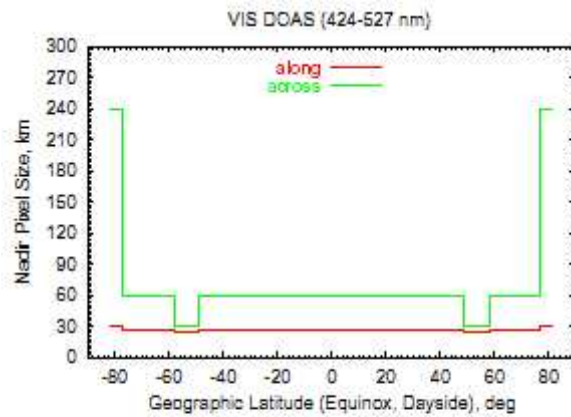
Surface reflectance spectra 2



sciamachy exampel spectra



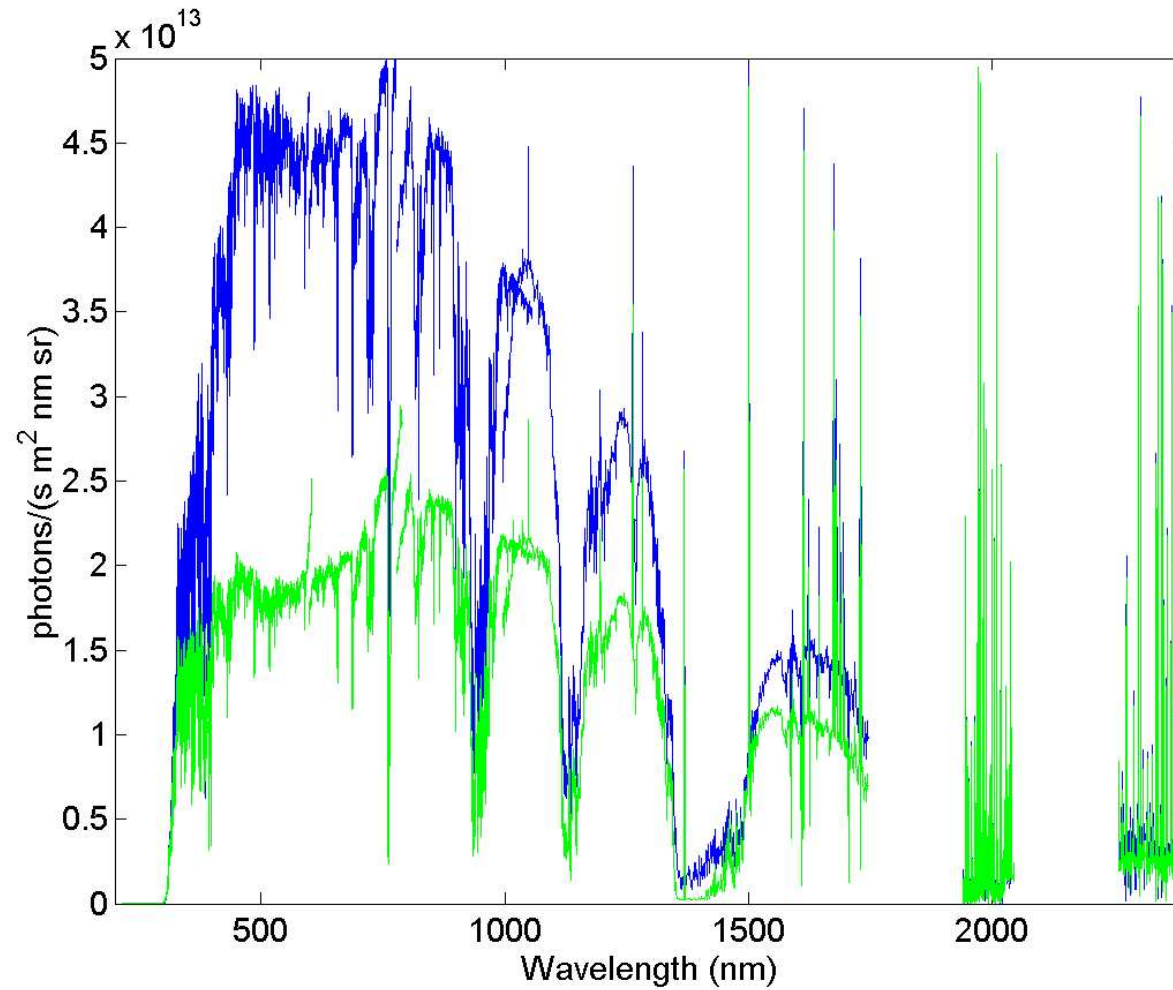
spatial resolution



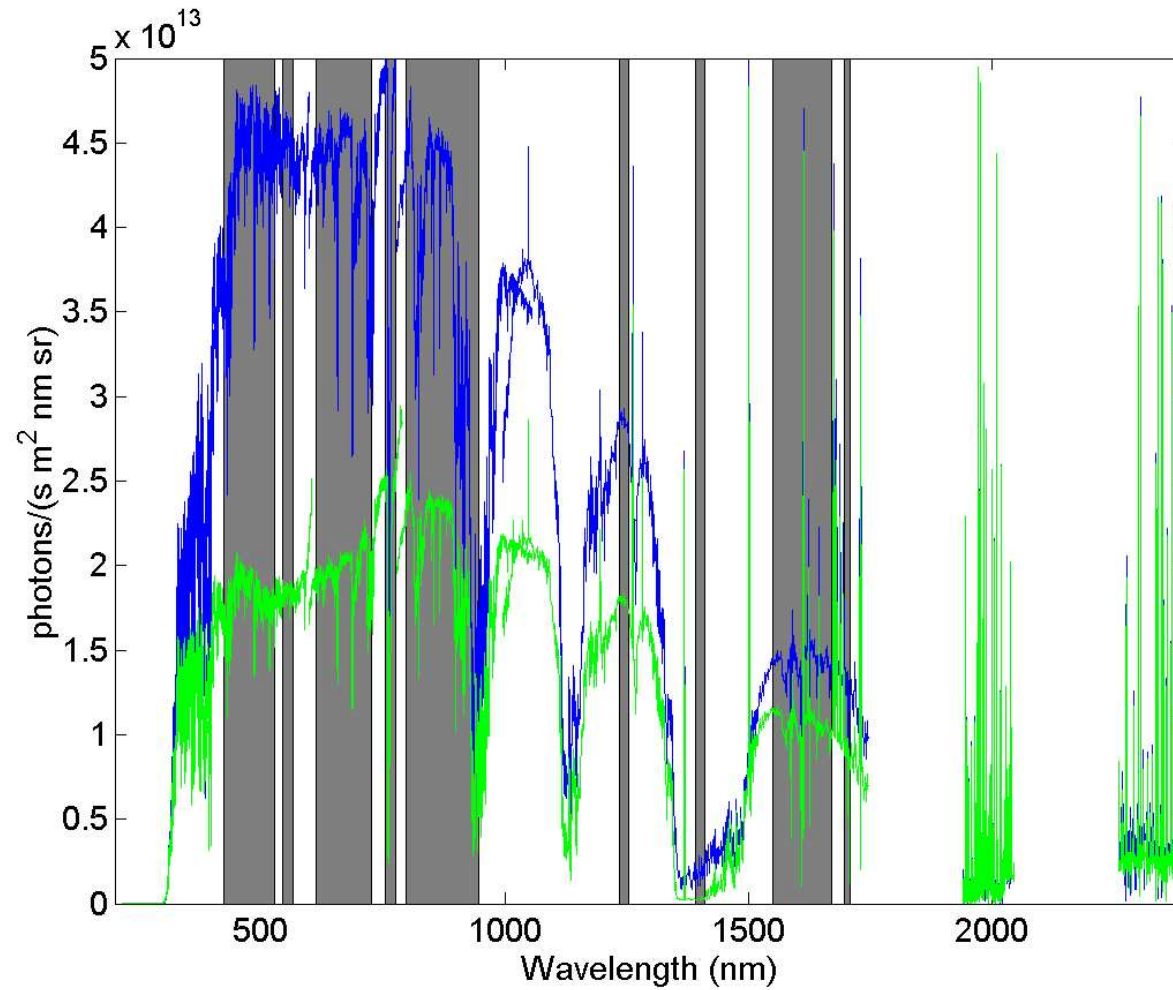
H. Bovensmann / S.Noel

<http://www.sciamachy-validation.org/sv/faq.html>

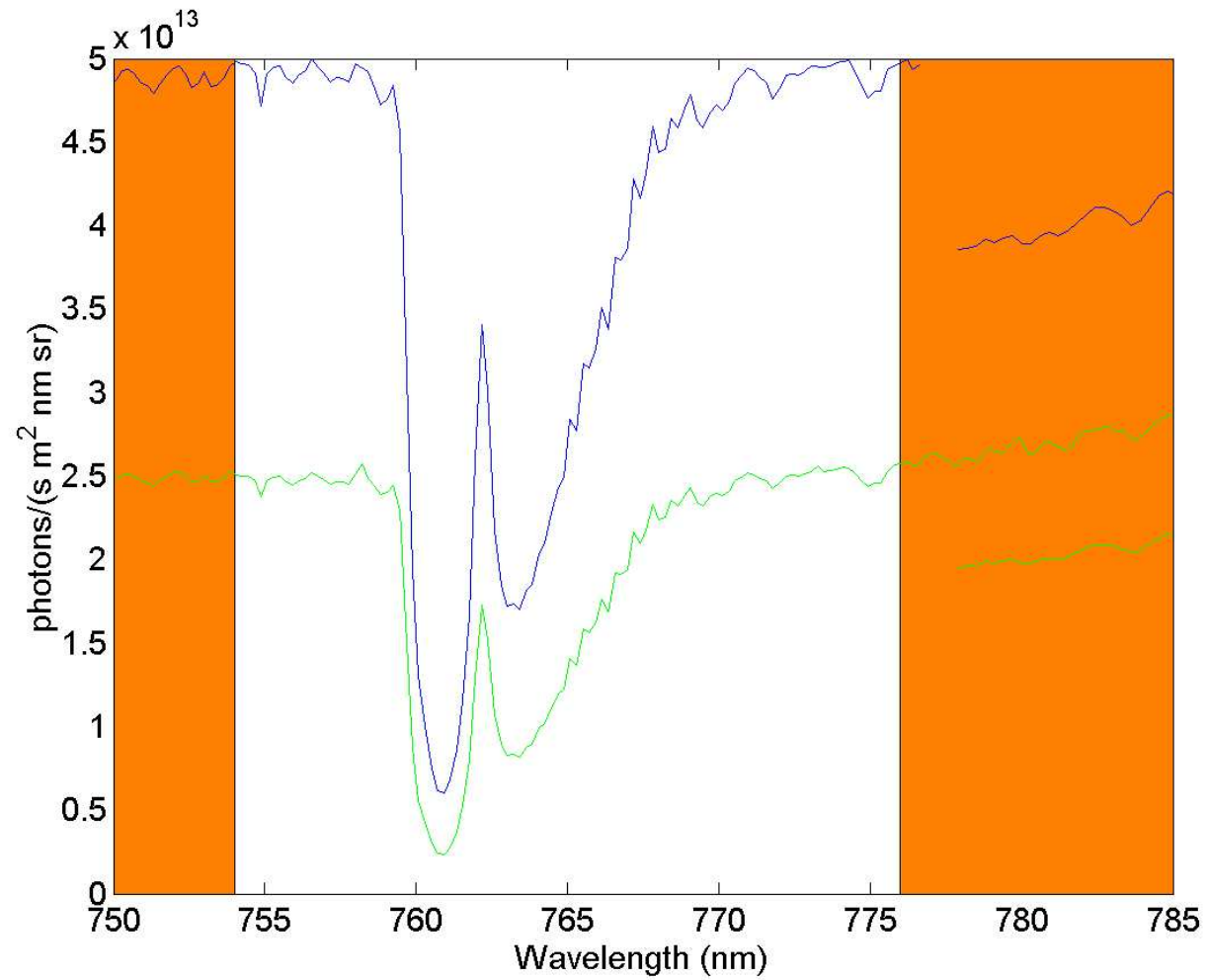
windows with high spatial resolution



windows with high spatial resolution

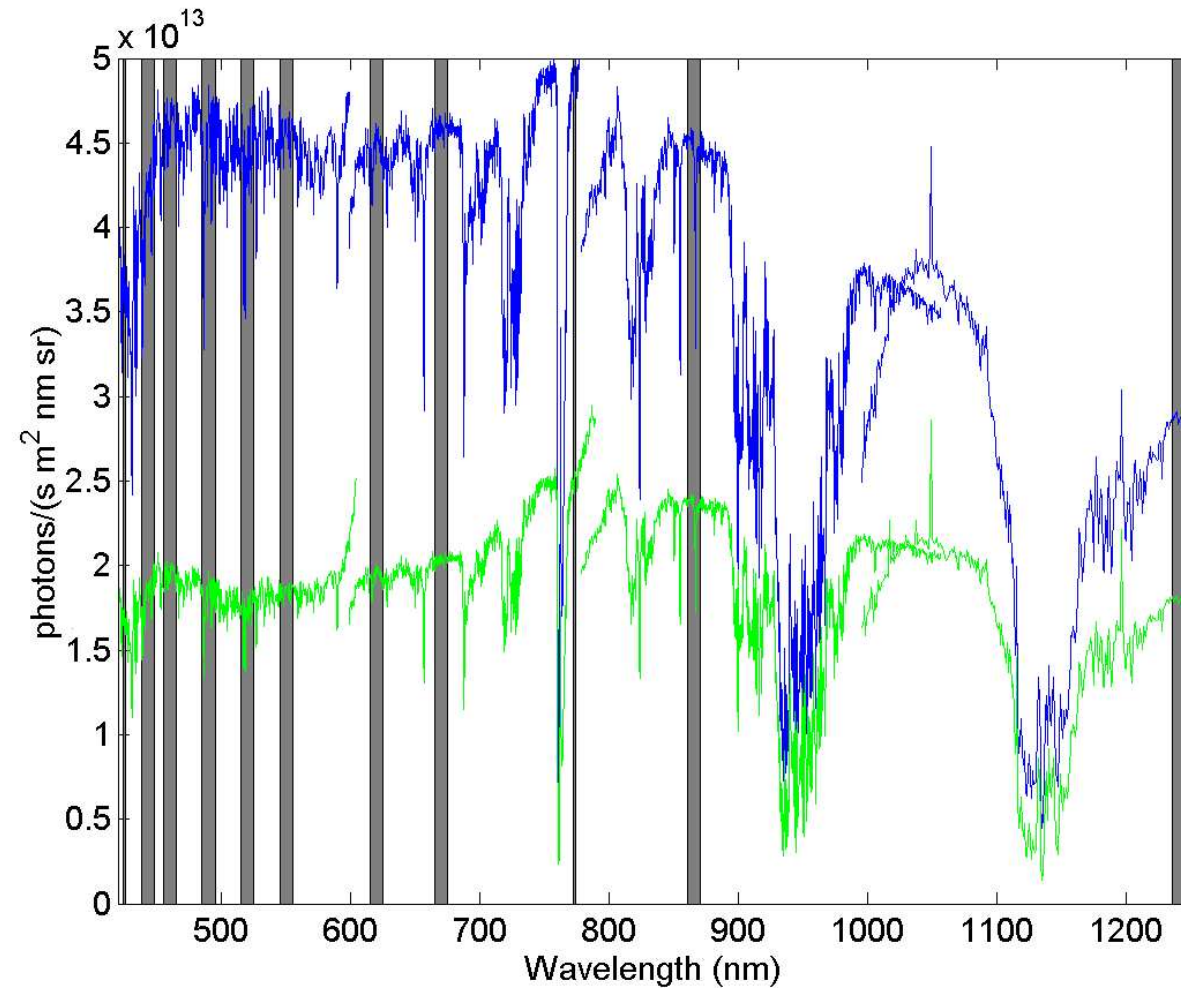


excluding spectral areas

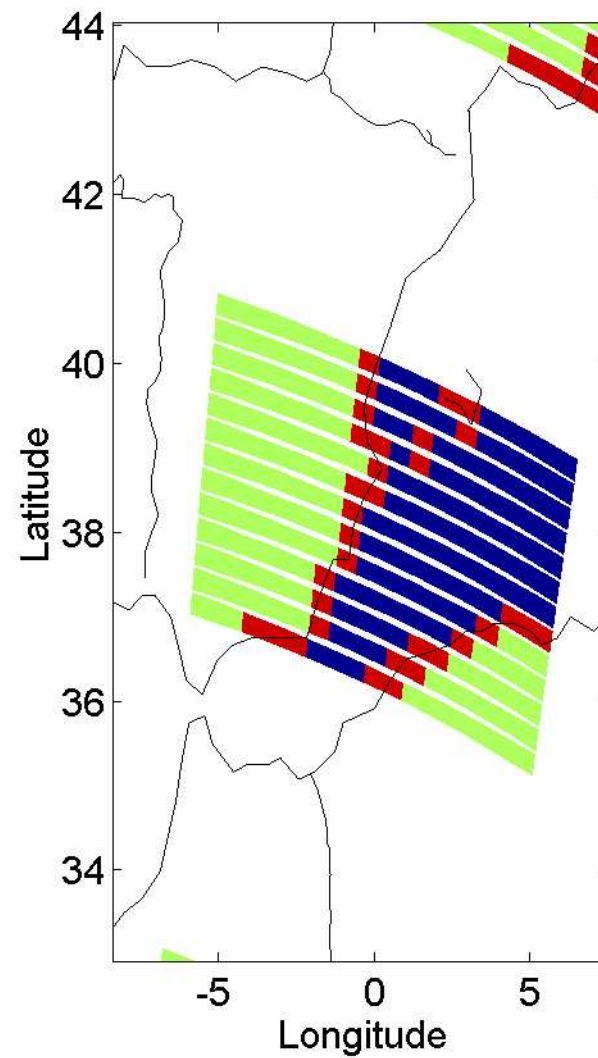
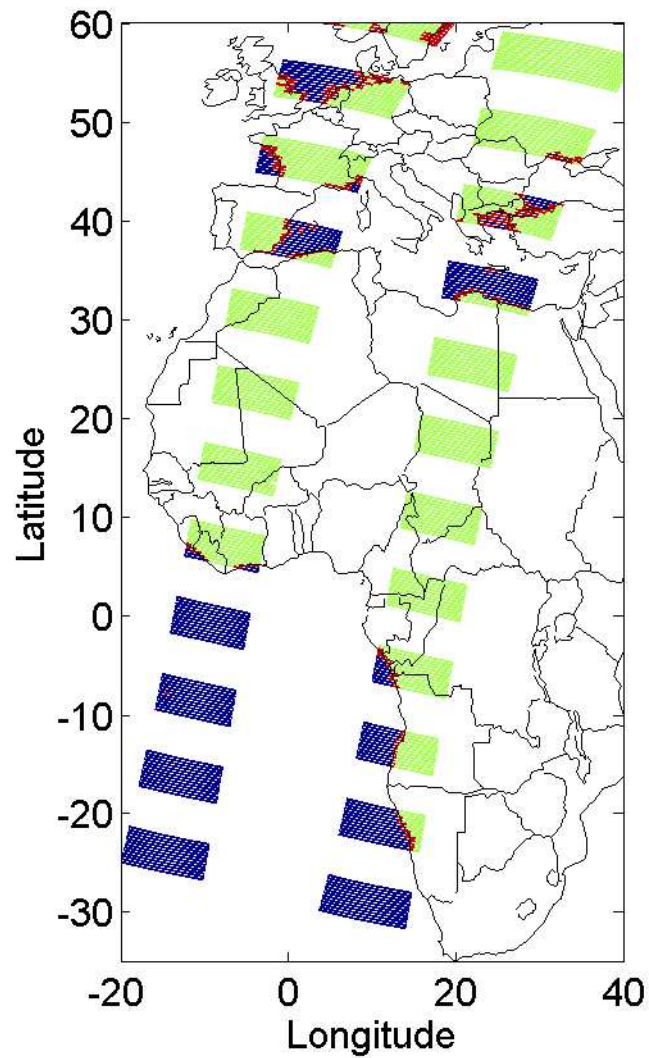


sciamachy baer aerosol channels

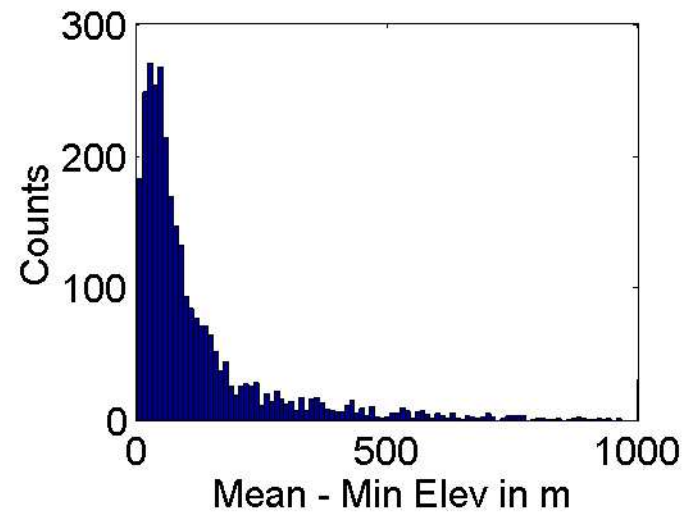
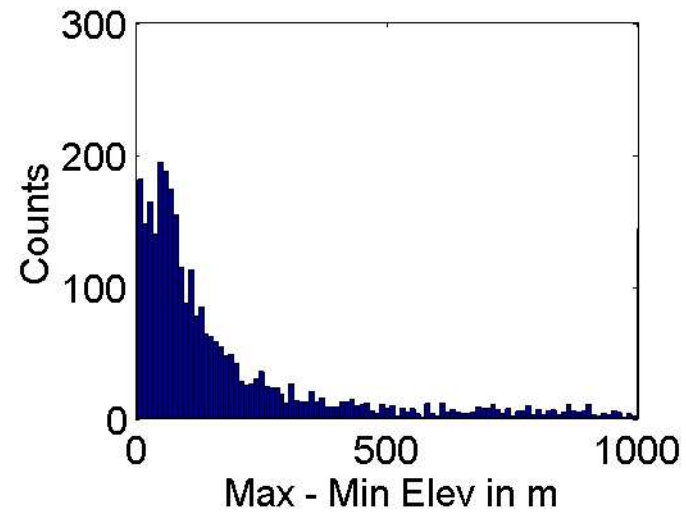
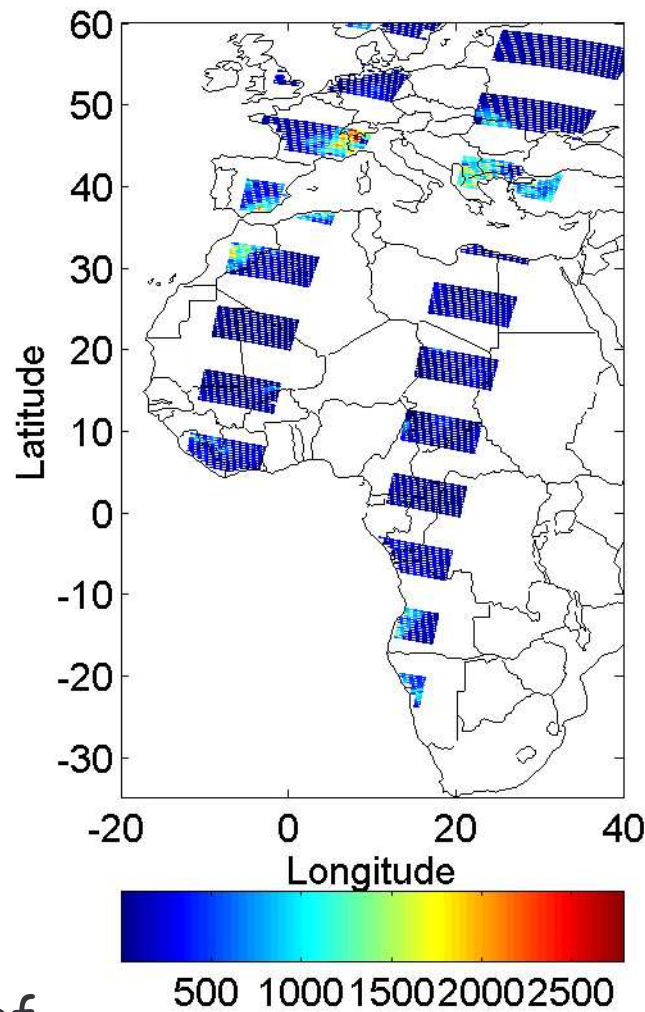
Center WL	Band width
425 nm	2 nm
443 nm	10 nm
460 nm	10 nm
490 nm	10 nm
520 nm	10 nm
550 nm	10 nm
620 nm	10 nm
670 nm	10 nm
773 nm	2 nm
865 nm	10 nm
1240 nm	10 nm



pure ocean and pure land pixels

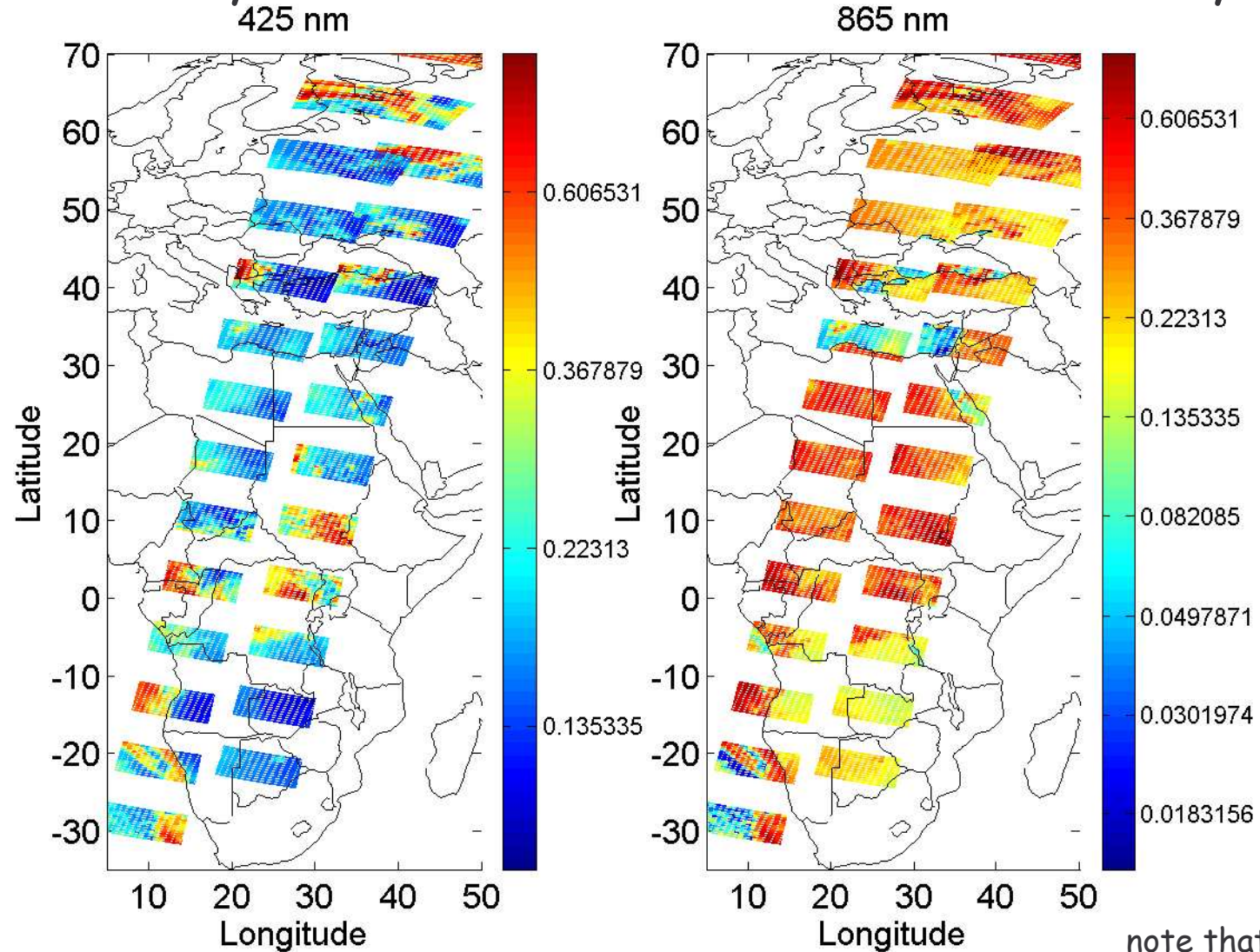


elevation variations



variation of
elevation in 30 km x 60 km sciamachy pixels

preliminary normalized radiances from sciamachy



note that the
2 orbits are from
two different days

sciama chy baer-spectra

