Pixel level uncertainties Introduction, seed questions

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AEROSAT discussions on uncertainties

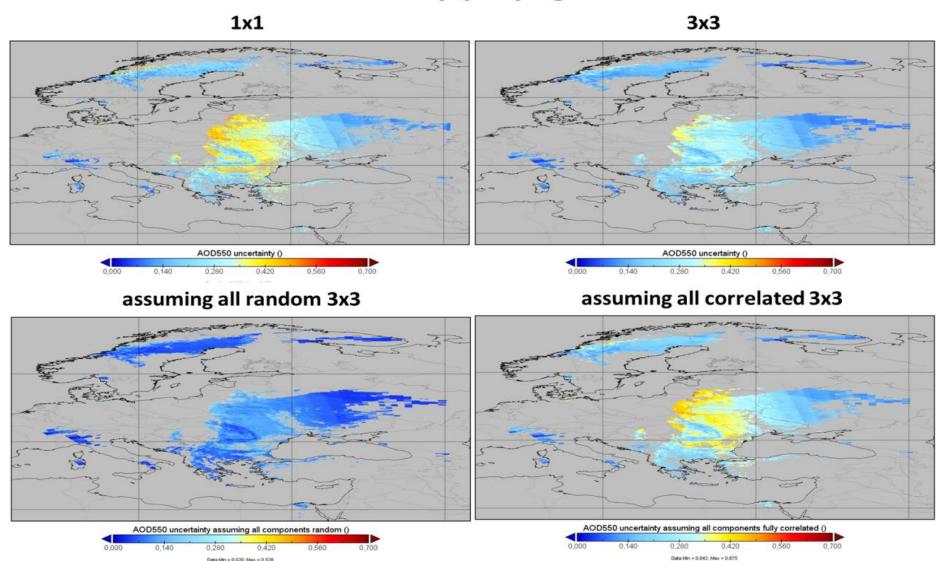
Achievements

- Clarified the definition of uncertainty terms
- Many new ideas about how to estimate uncertainties
- > Some understanding of strengths, limitations, usability
- Overview paper / validation framework (led by A. Sayer)

Issues started to discuss

- QA flags vs. uncertainties (complementary of alternative)
- Sampling uncertainties (assess with models or GEO)
- Correlations of uncertainty sources
- Availability of good reference data (e.g. for properties)
- Derived parameters: ANG / SSA vs. FMAOD / AAOD

Uncertainty propagation



Propagation to gridded products (poster Popp)

Seed questions

- How do data assimilation users work with uncertainties?
- How do we best validate pixel-level uncertainties?
- How do we propagate uncertainties to gridded products?
- How can we provide uncertainties for derived properties?
- Should we separate uncertainties from sources having different spatio-temporal correlations?