

Supplement to

Linear tomographic retrieval characterisation and performance estimation for the ESA Earth Explorer 11 candidate CAIRT (Changing Atmosphere Infra-Red Tomography explorer)

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This document includes global average resolution and uncertainty budgets for CFC-11, ClONO₂, PAN, OCS, SO₂, H₂SO₂-liq, HCN, C₂H₂, C₂H₆, HCOOH, NH₃, and NH₄NO₃-sld, derived with the Linear Performance Estimator (LPE).

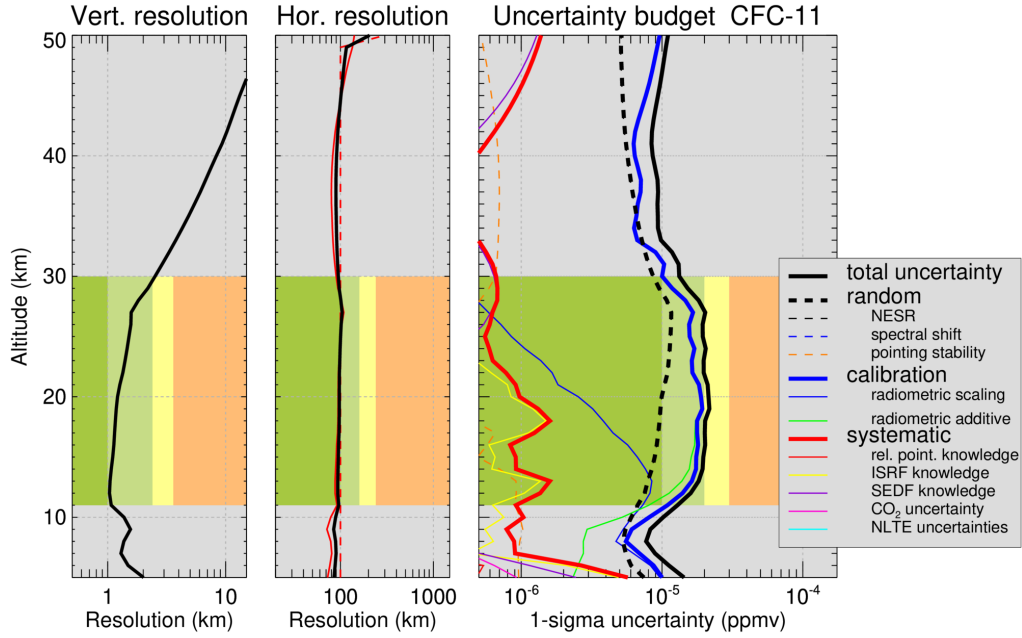


Figure S1. L2 resolution and uncertainty budgets for CFC–11 generated with the LPE. Background shading corresponds to the L2 requirement compliance categories of Table 3. The total error is the 1- σ equivalent width of an error distribution, calculated as the square root of the quadratic sum of all random and systematic components assessed. In the horizontal resolution sub-plot, red solid lines indicate along-track resolution, and dashed red lines denote cross-track binning.

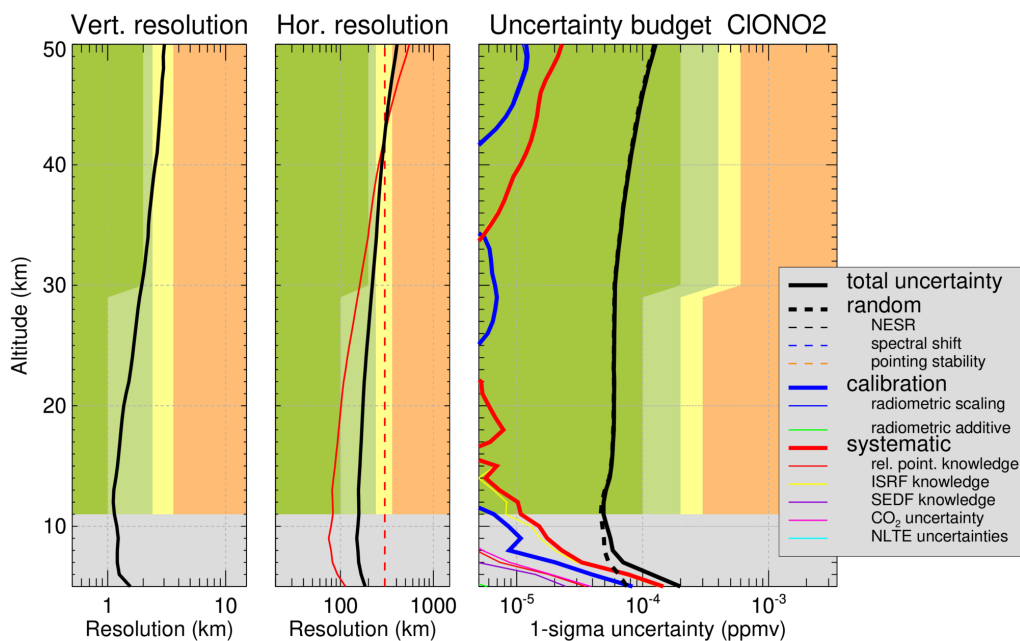


Figure S2. As Figure S1 but showing resolution and uncertainty budgets for ClONO_2 .

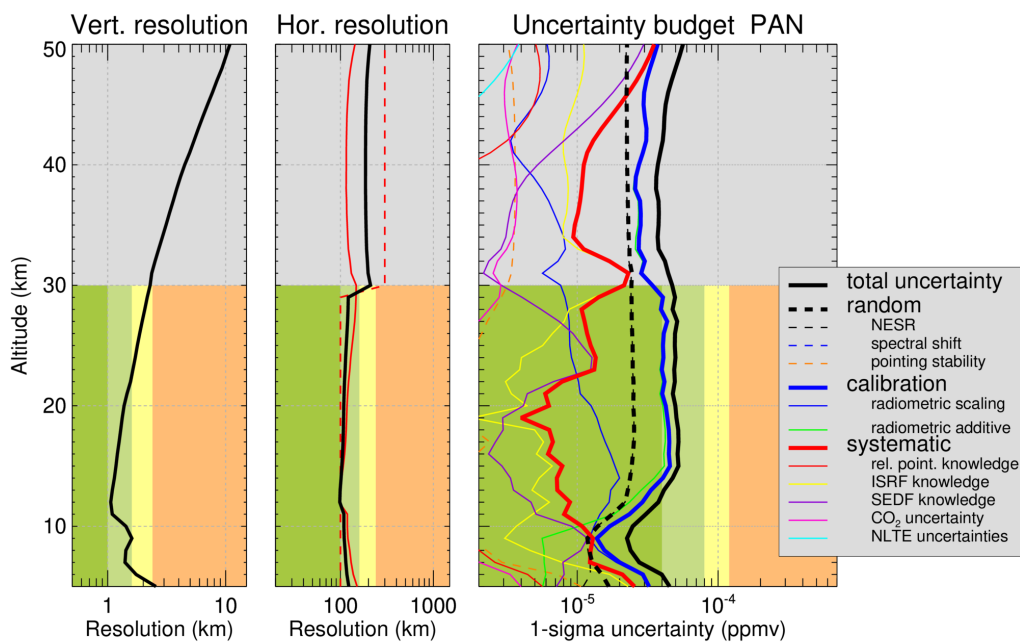


Figure S3. As Figure S1 but showing resolution and uncertainty budgets for PAN .

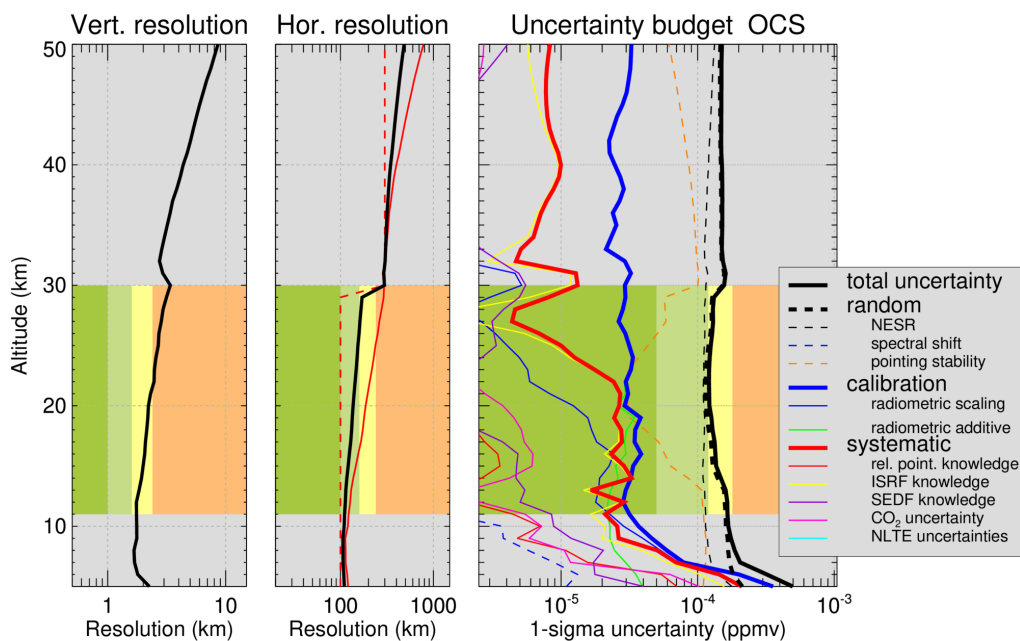


Figure S4. As Figure S1 but showing resolution and uncertainty budgets for OCS.

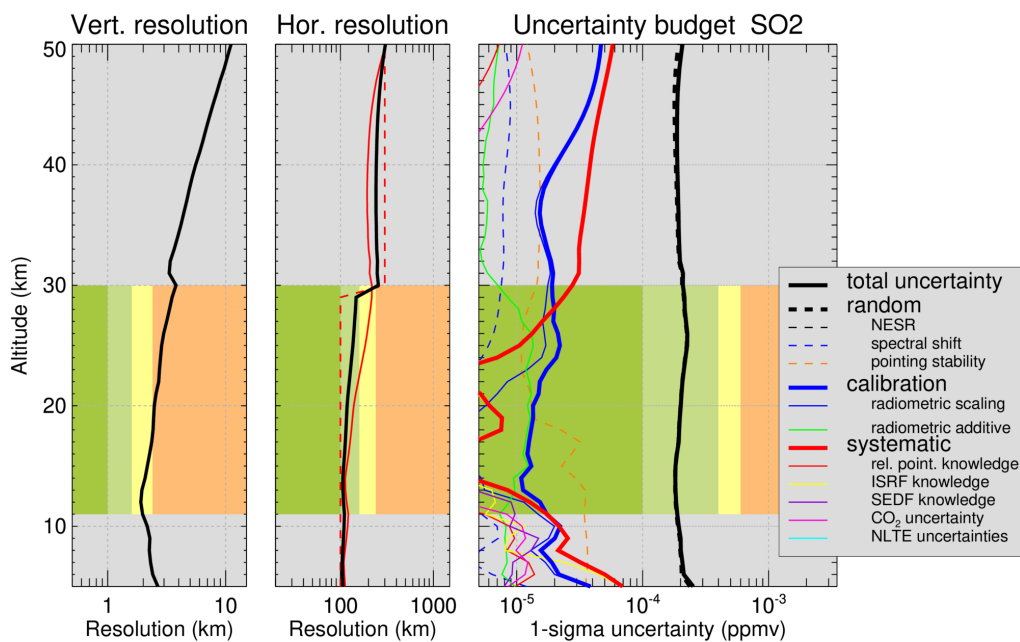


Figure S5. As Figure S1 but showing resolution and uncertainty budgets for SO₂.

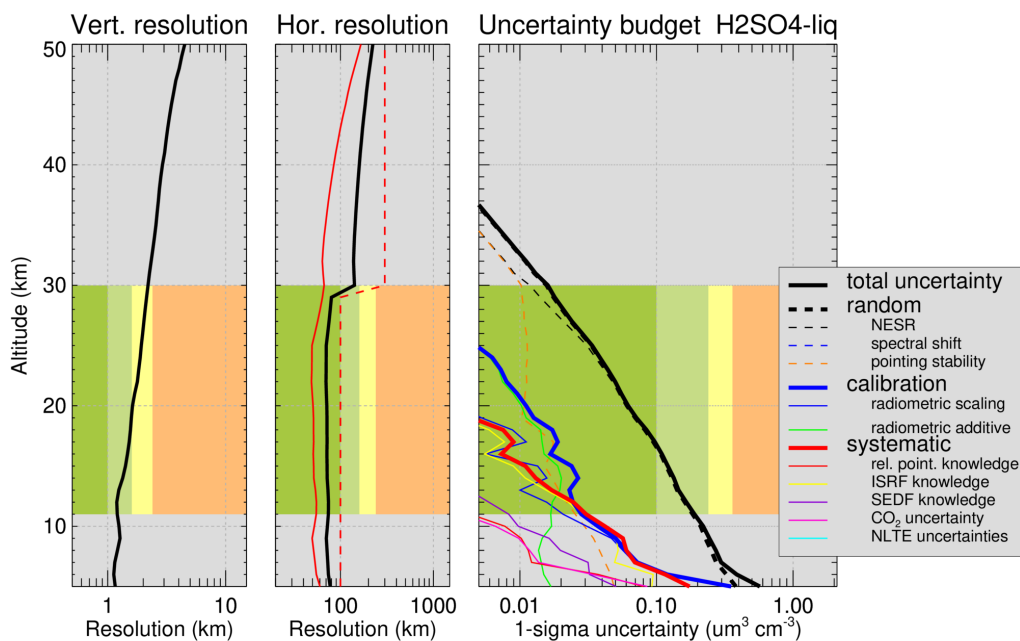


Figure S6. As Figure S1 but showing resolution and uncertainty budgets for $\text{H}_2\text{SO}_4\text{--liq.}$

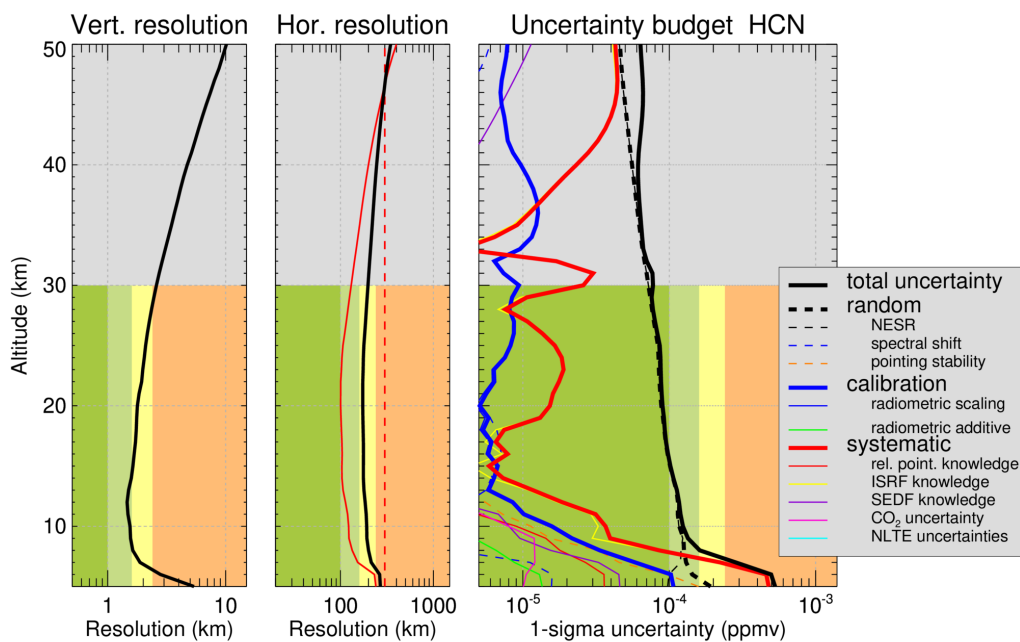


Figure S7. As Figure S1 but showing resolution and uncertainty budgets for HCN.

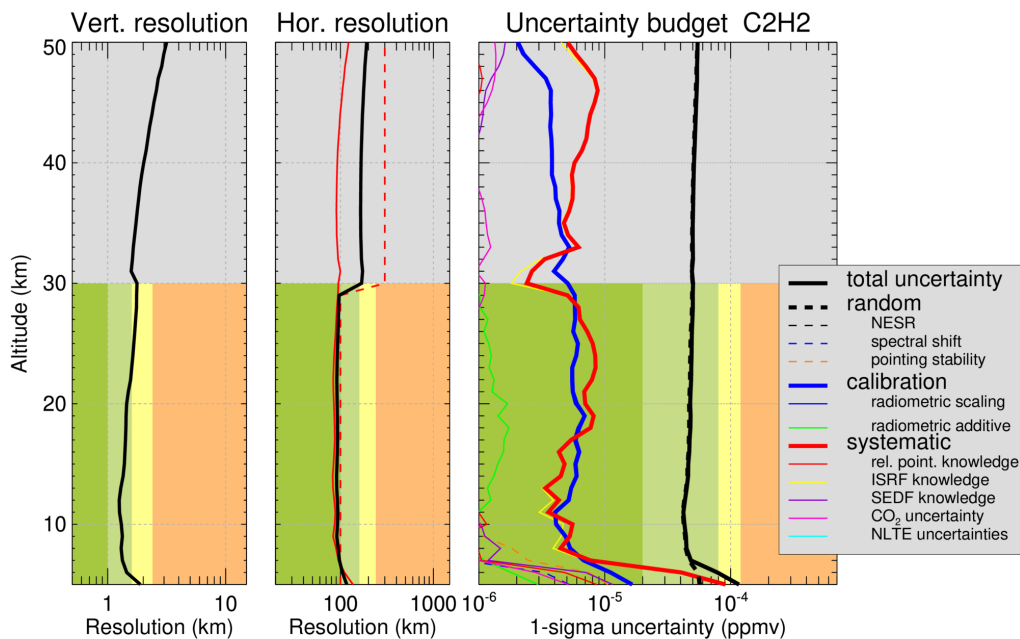


Figure S8. As Figure S1 but showing resolution and uncertainty budgets for C_2H_2 .

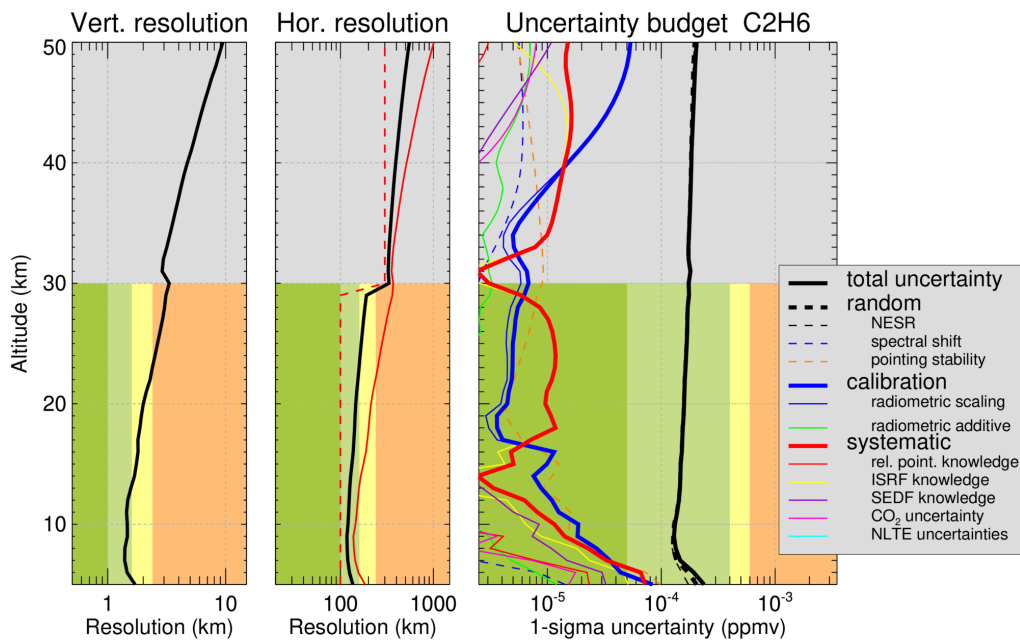


Figure S9. As Figure S1 but showing resolution and uncertainty budgets for C_2H_6 .

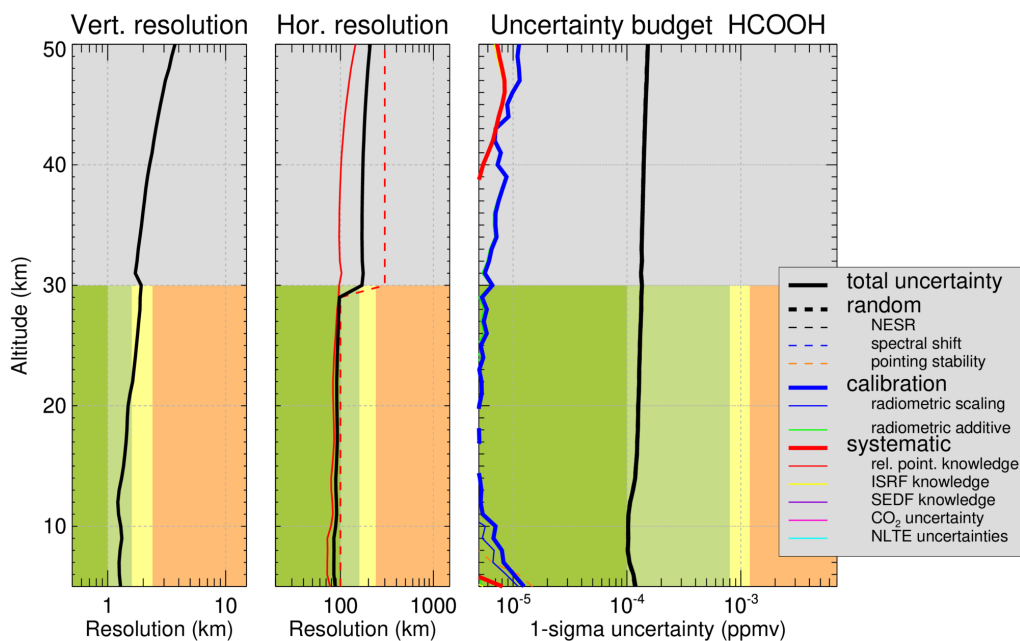


Figure S10. As Figure S1 but showing resolution and uncertainty budgets for HCOOH.

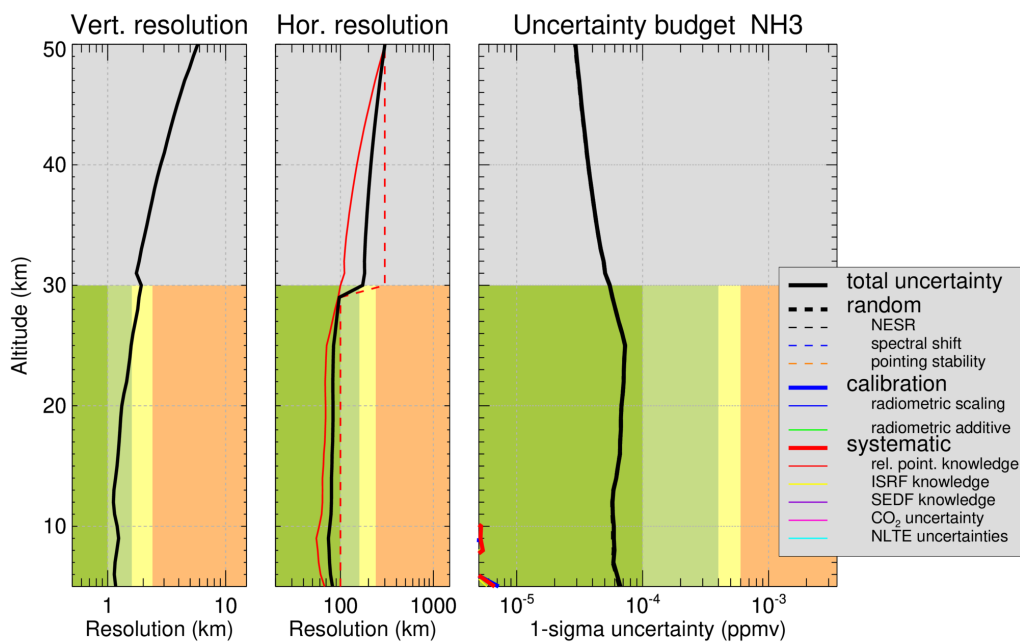


Figure S11. As Figure S1 but showing resolution and uncertainty budgets for NH₃.

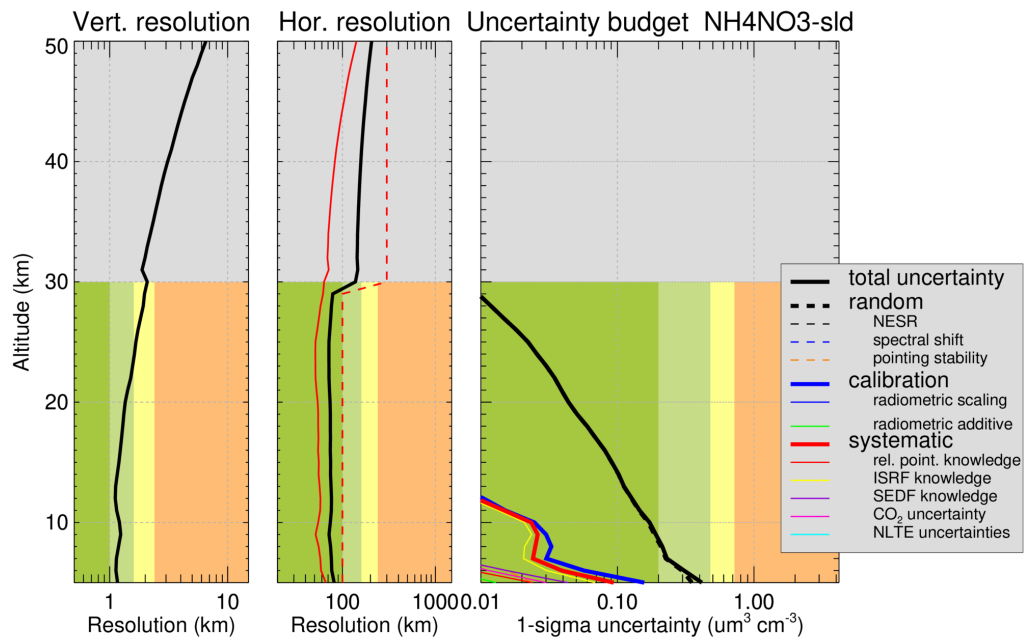


Figure S12. As Figure S1 but showing resolution and uncertainty budgets for $\text{NH}_4\text{NO}_3\text{-sld}$.