



Supplement of

Technical note: A high-resolution inverse modelling technique for estimating surface CO₂ fluxes based on the NIES-TM–FLEXPART coupled transport model and its adjoint

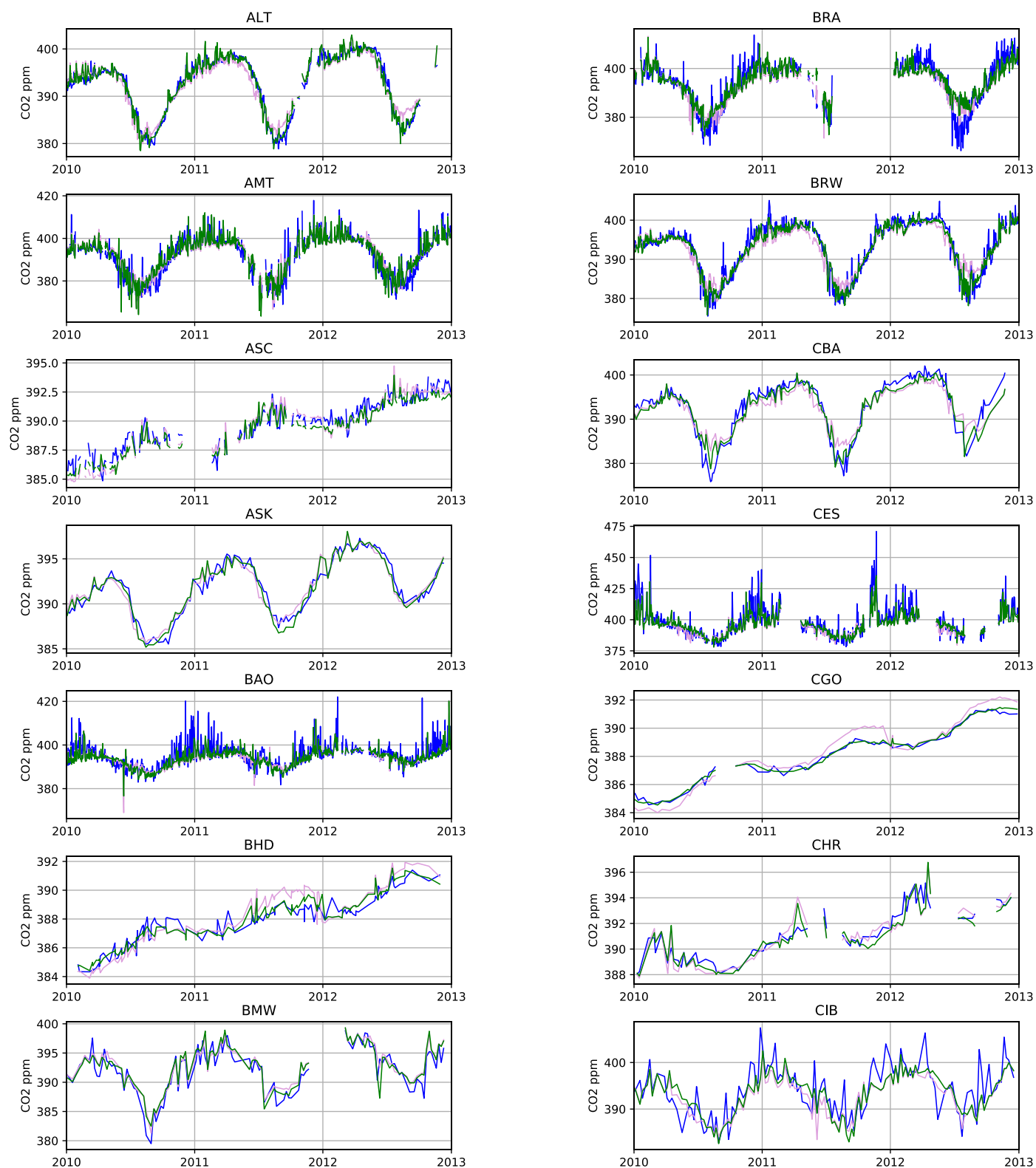
Shamil Maksyutov et al.

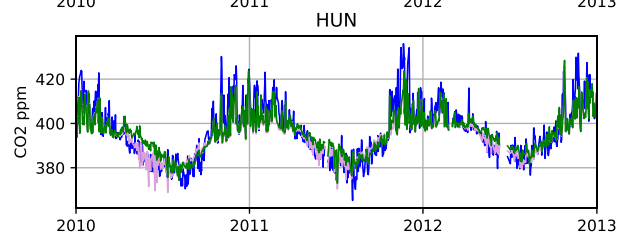
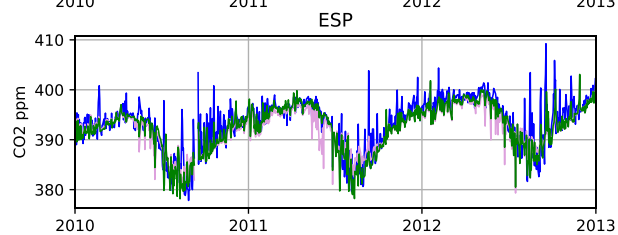
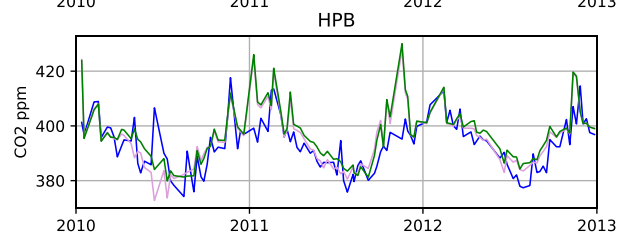
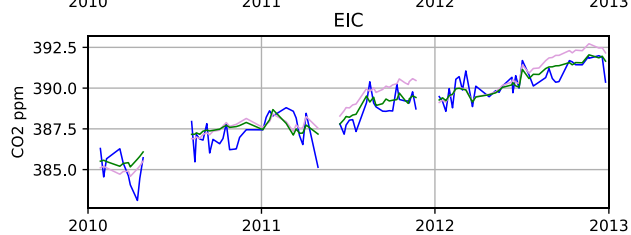
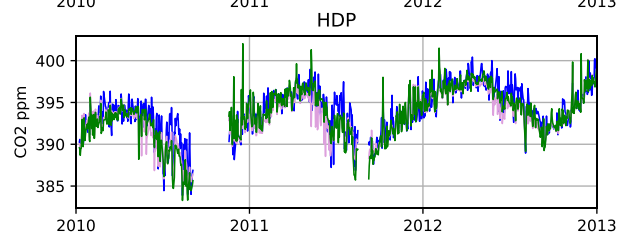
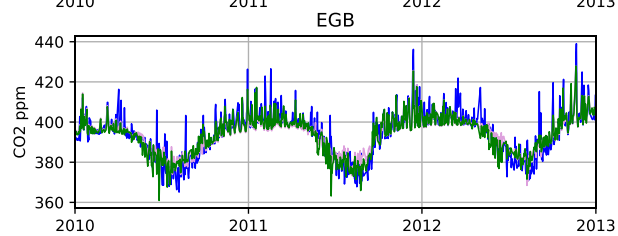
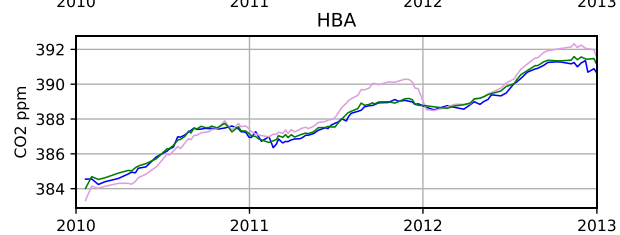
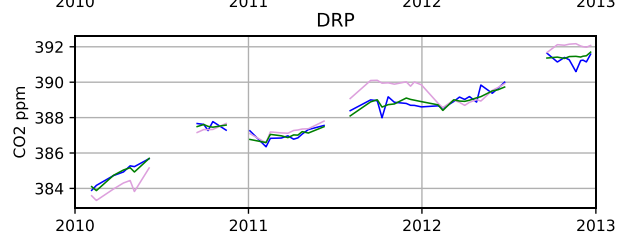
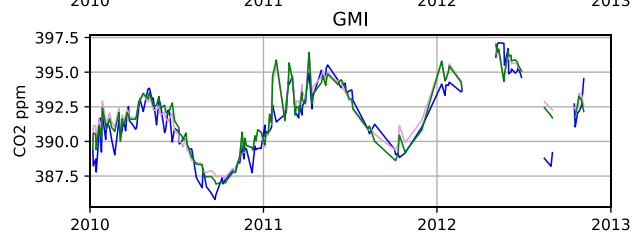
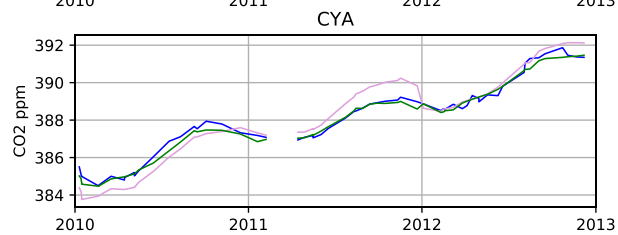
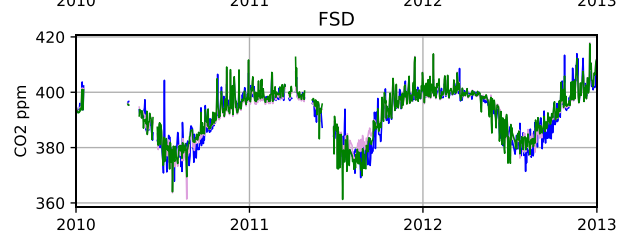
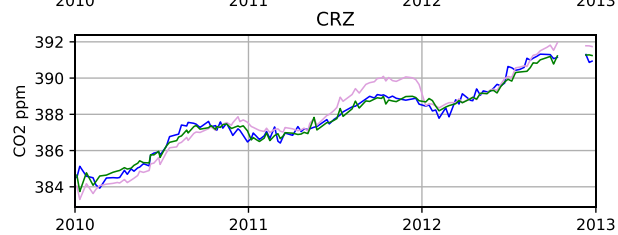
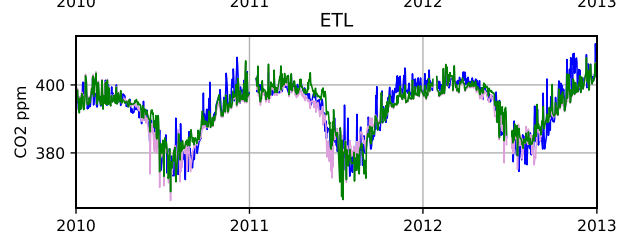
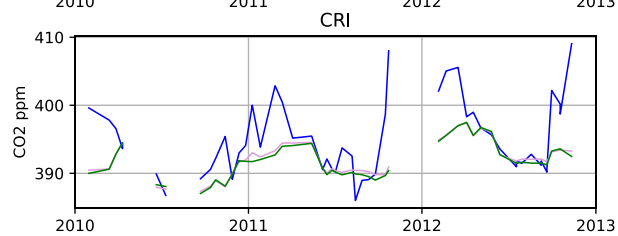
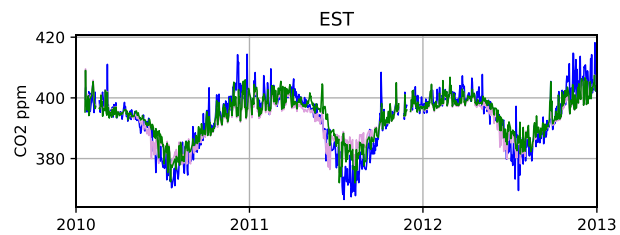
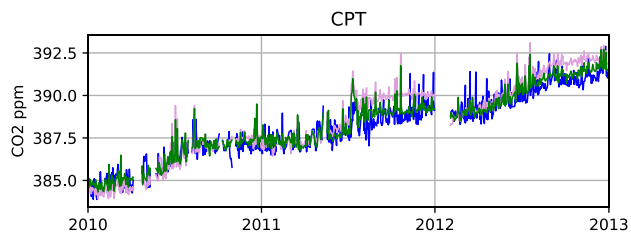
Correspondence to: Shamil Maksyutov (shamil@nies.go.jp)

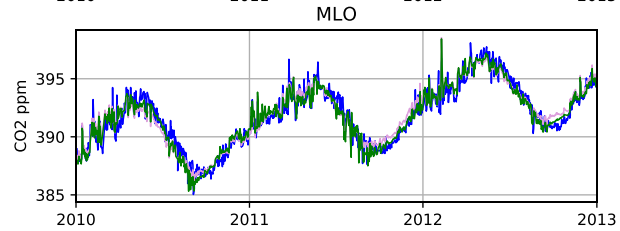
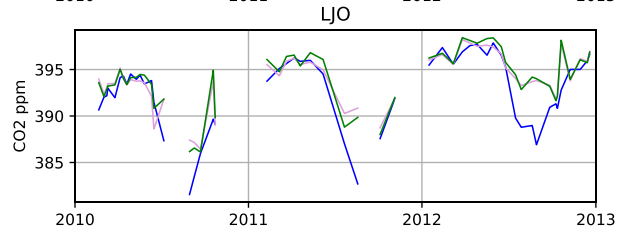
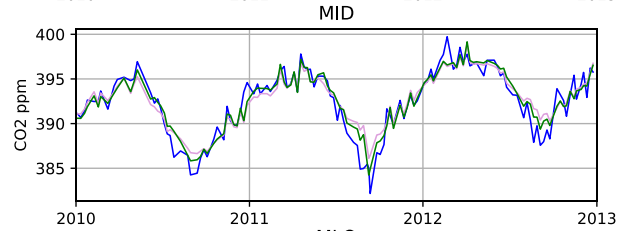
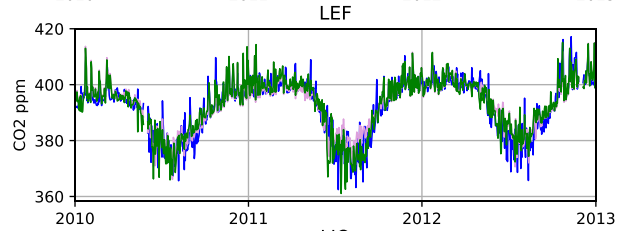
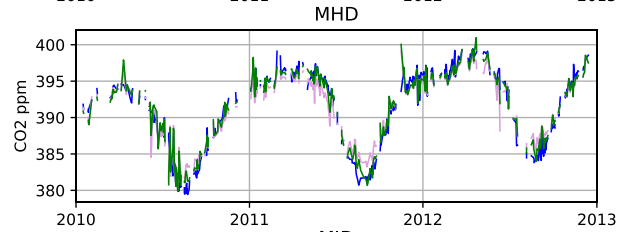
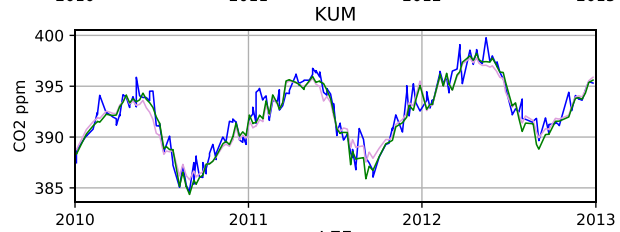
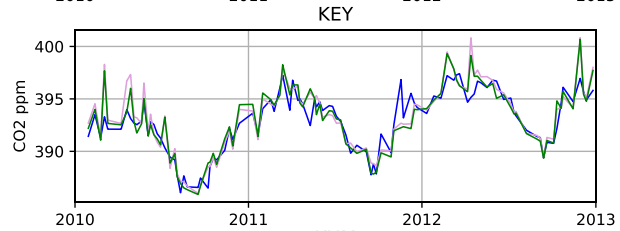
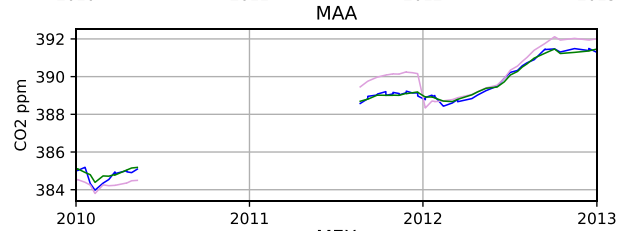
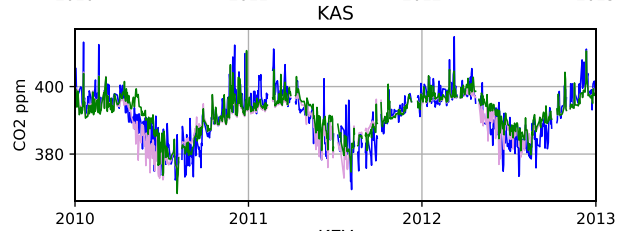
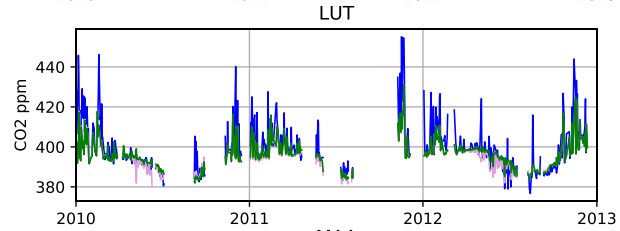
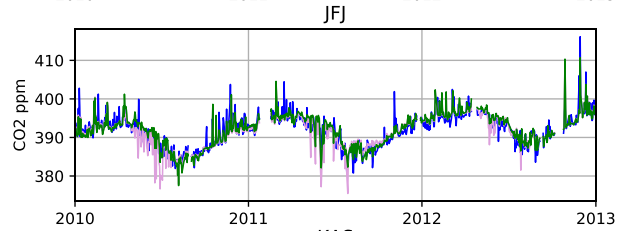
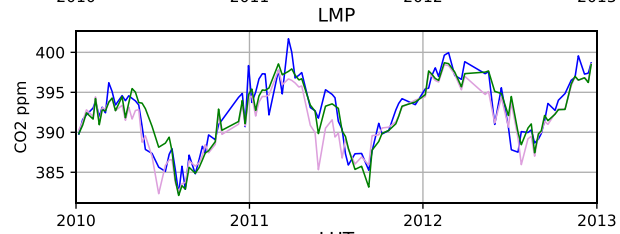
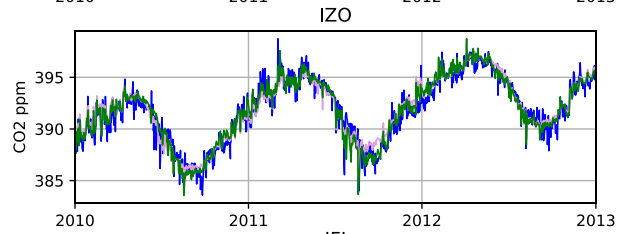
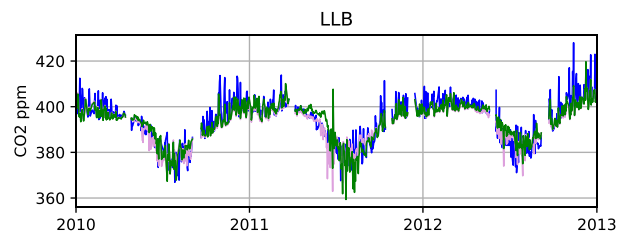
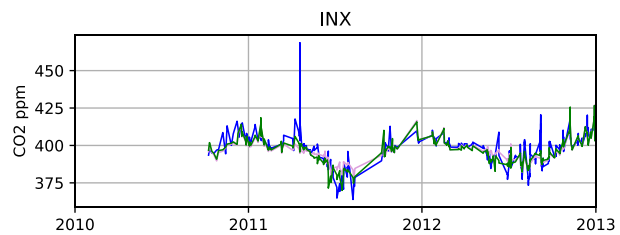
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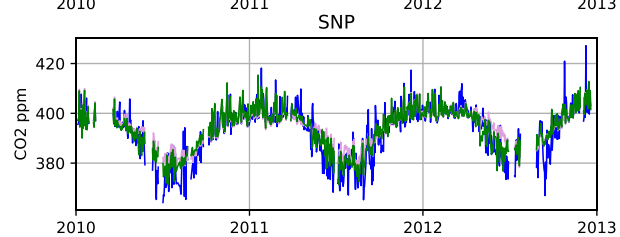
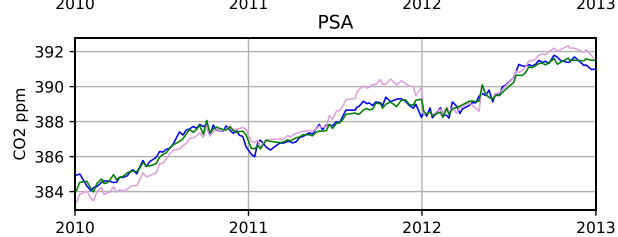
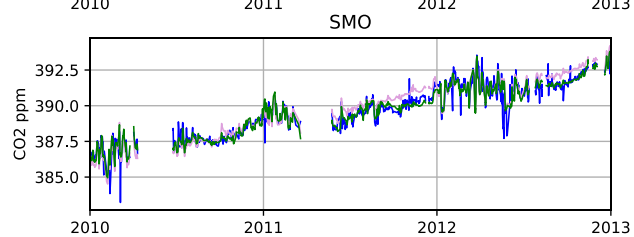
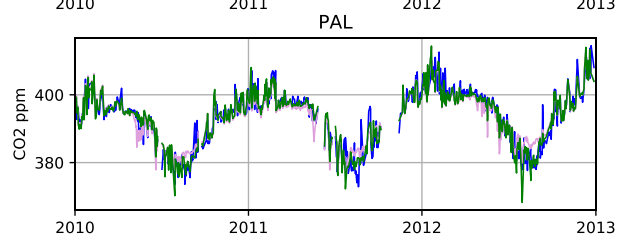
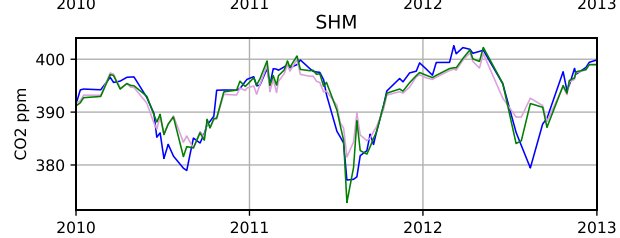
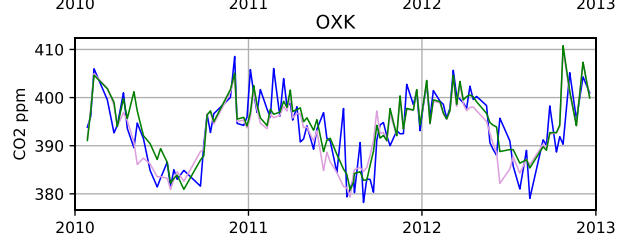
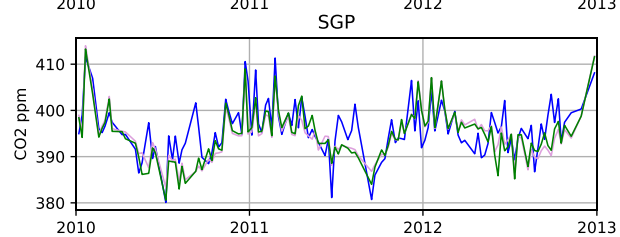
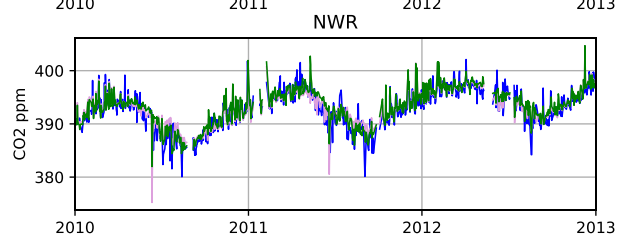
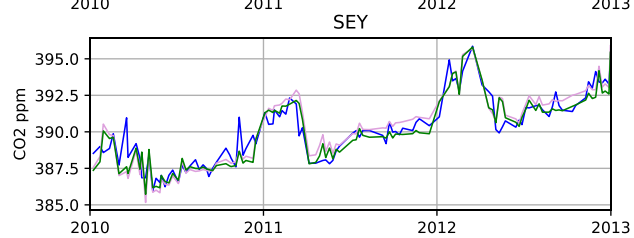
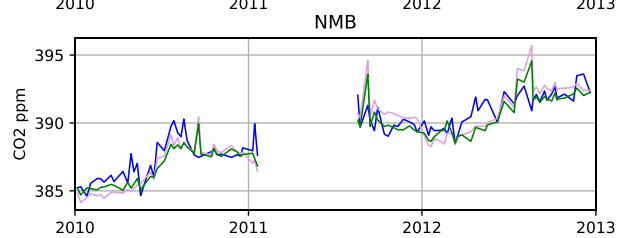
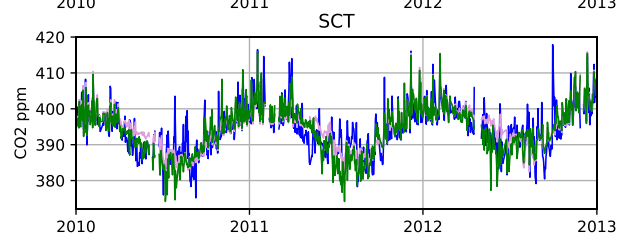
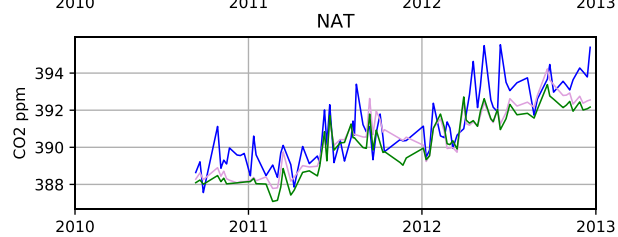
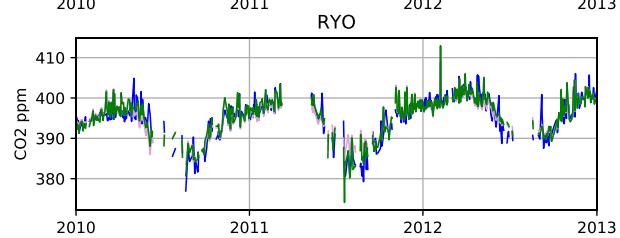
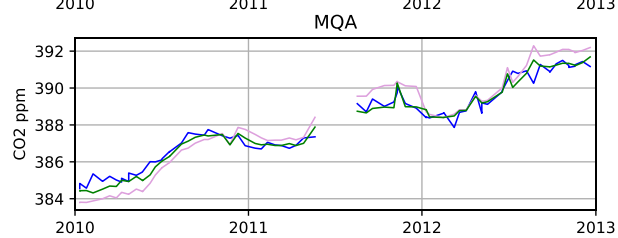
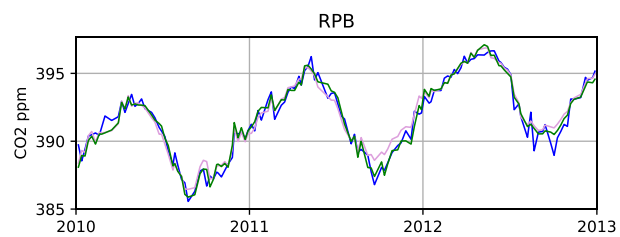
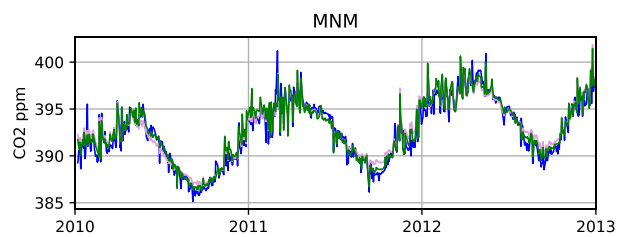
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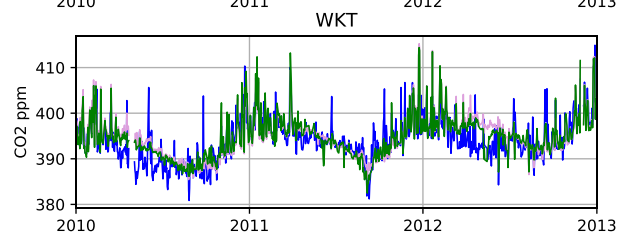
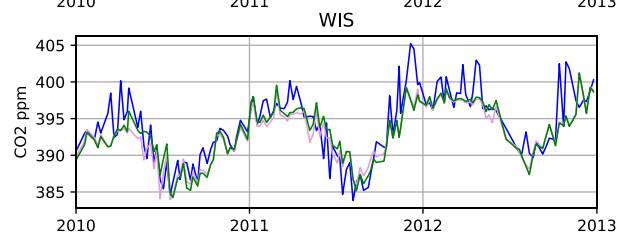
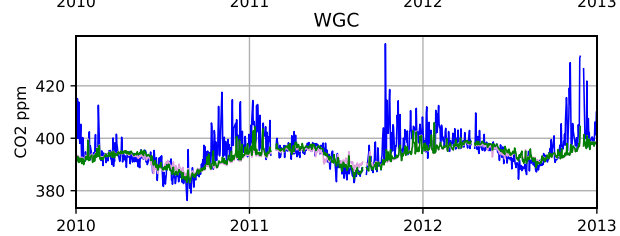
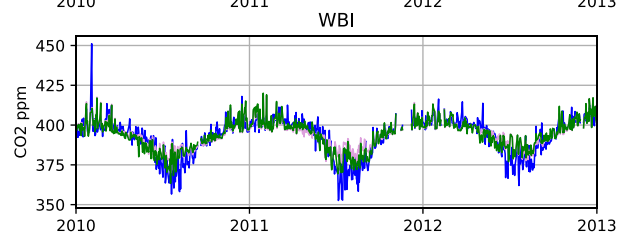
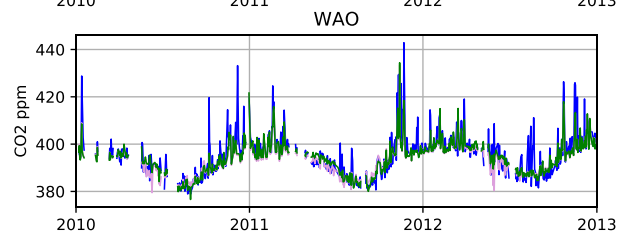
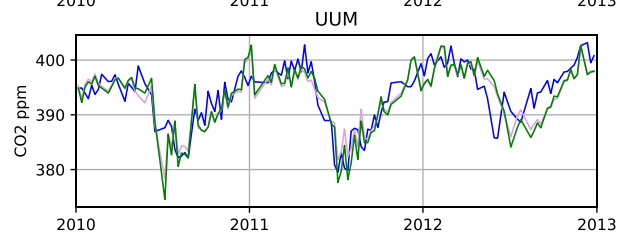
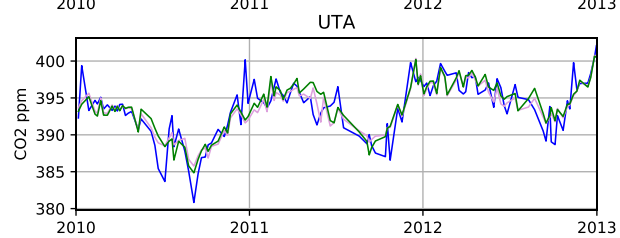
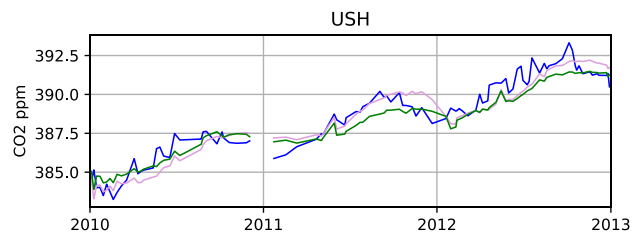
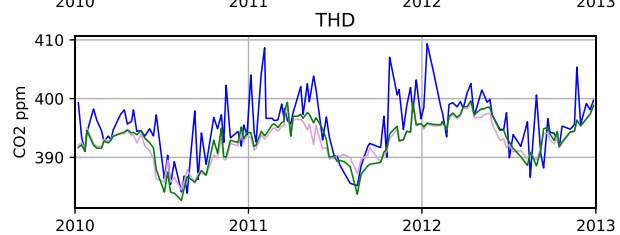
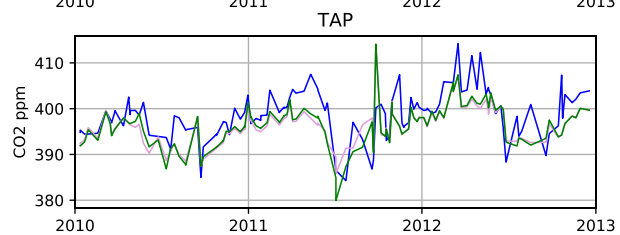
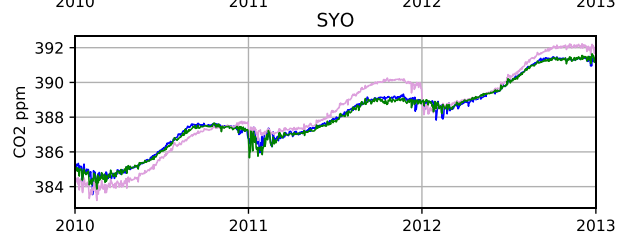
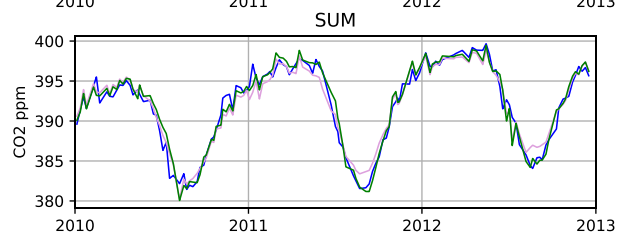
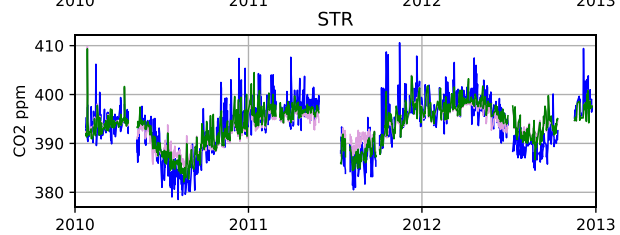
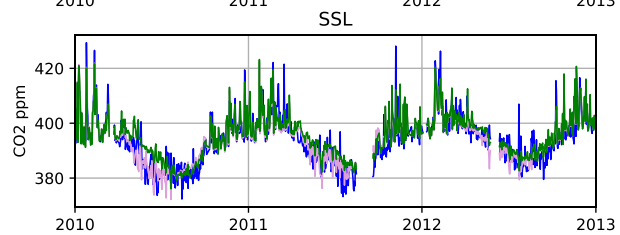
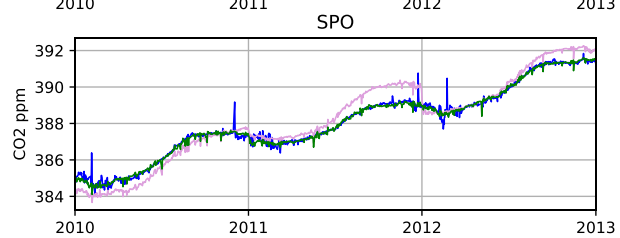
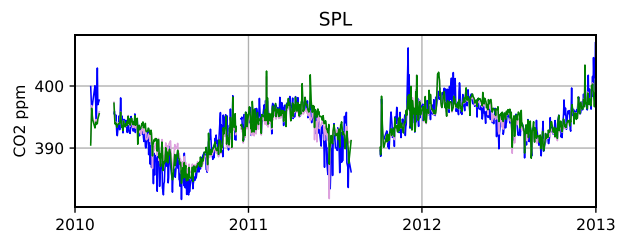
Fig. S1. Time series plots for monitoring sites used in inversion (blue – observed, plum – forward, green – optimized)











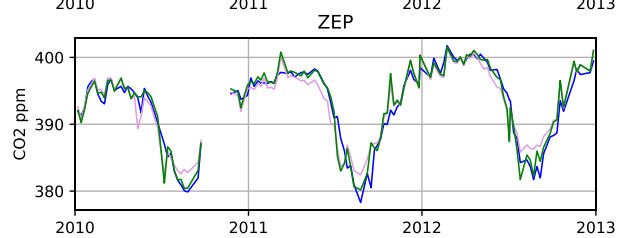
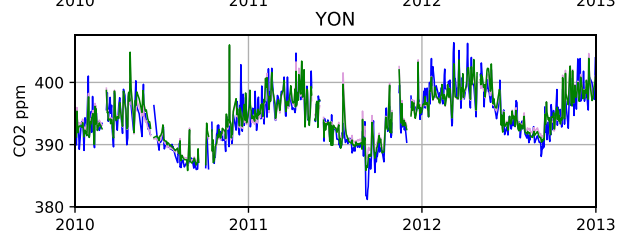
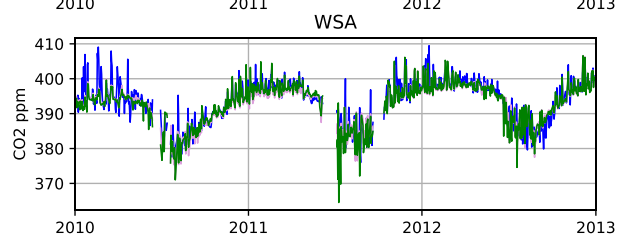
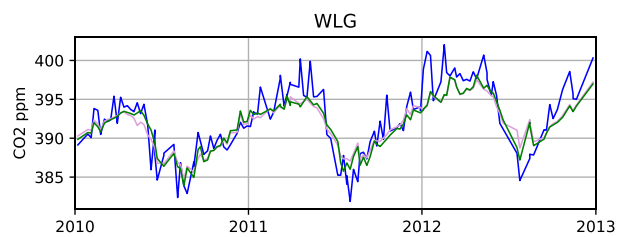


Fig. S2. Time series plots for aircraft data and model simulations used in validation (blue – observed, plum – forward, green – optimized)

