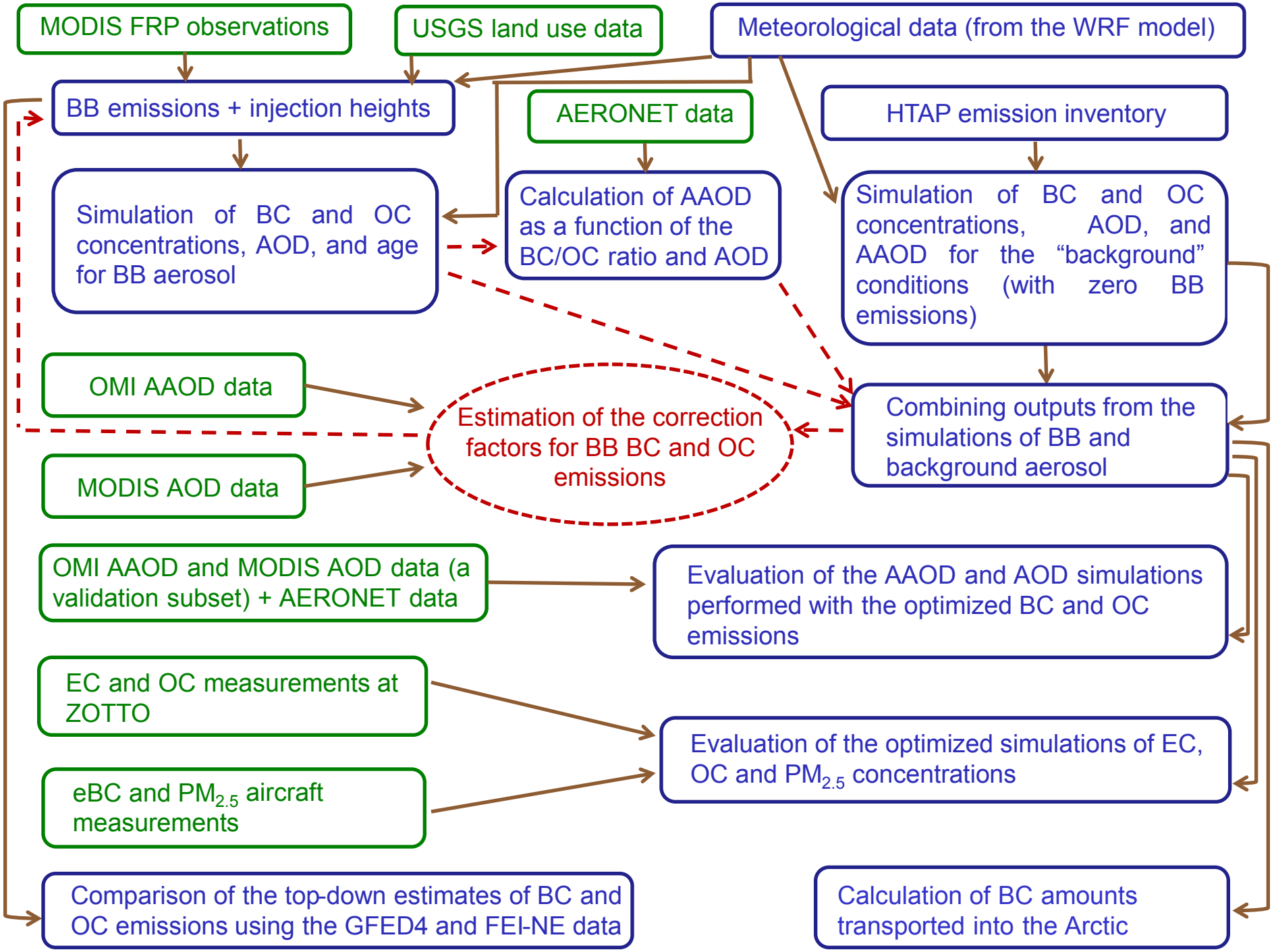
MODIS FRP observations
USGS land use data
Meteorological data (from the WRF model)
BB emissions + injection heights
AERONET data
HTAP emission inventory
Simulation of BC and OC concentrations, AOD, and age for BB aerosol
Calculation of AAOD as a function of the BC/OC ratio and AOD
Simulation of BC and OC concentrations, AOD, and AAOD for the "background" conditions (with zero BB emissions)
OMI AAOD data
Estimation of the correction factors for BB BC and OC emissions
Combining outputs from the simulations of BB and background aerosol
MODIS AOD data
OMI AAOD and MODIS AOD data (a validation subset) + AERONET data
Evaluation of the AAOD and AOD simulations performed with the optimized BC and OC emissions
EC and OC measurements at ZOTTO
Evaluation of the optimized simulations of EC, OC and $PM_{2.5}$ concentrations
eBC and $PM_{2.5}$ aircraft measurements
Comparison of the top-down estimates of BC and OC emissions using the GFED4 and FEI-NE data
Calculation of BC amounts transported into the Arctic