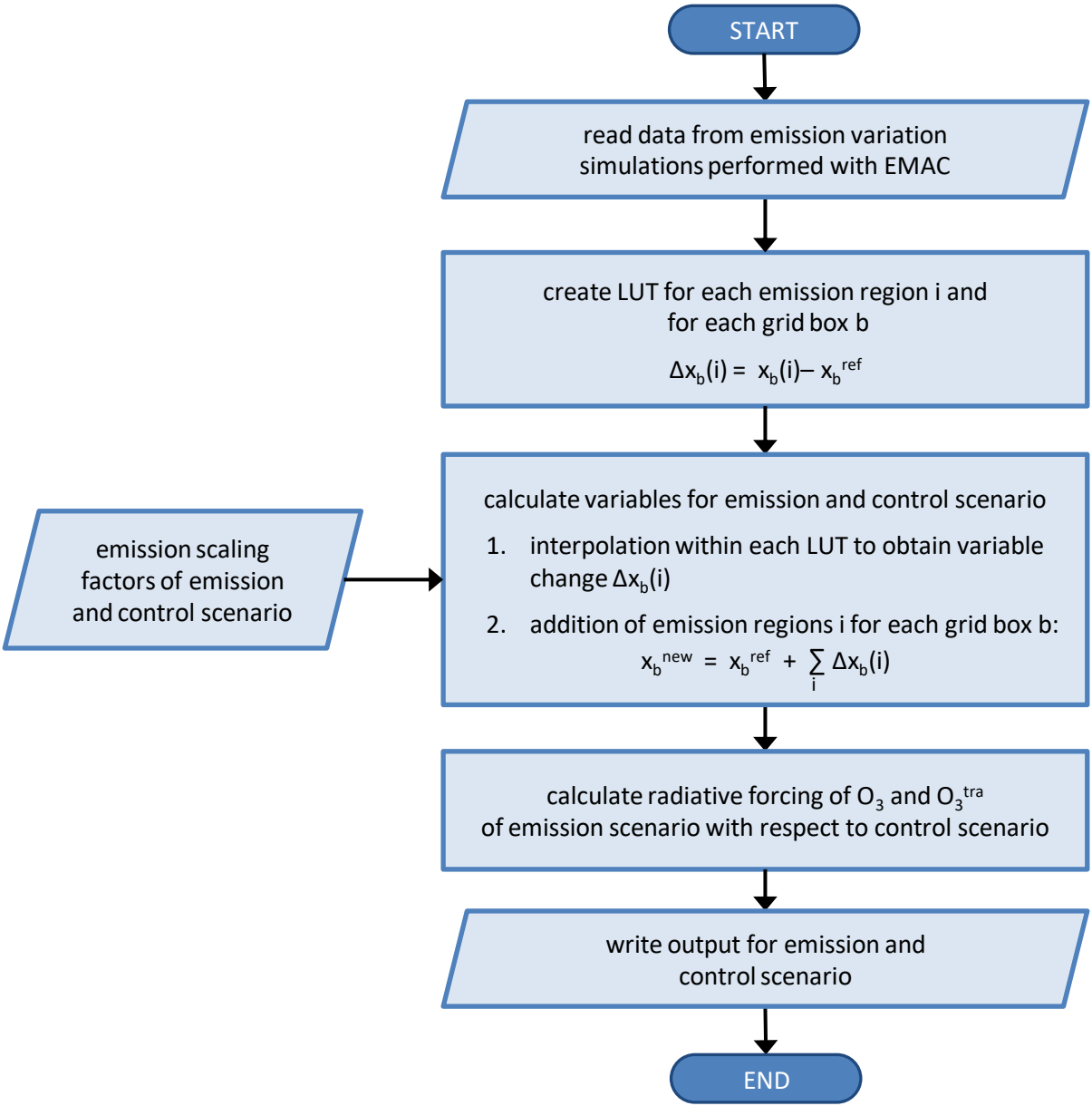
START
read data from emission variation simulations performed with EMAC
create LUT for each emission region i and for each grid box b
$\Delta x_b(i) = x_b(i) - x_b^{ref}$
emission scaling factors of emission and control scenario
calculate variables for emission and control scenario
1. interpolation within each LUT to obtain variable change $\Delta x_b(i)$
2. addition of emission regions i for each grid box b:
$x_b^{new} = x_b^{ref} + \sum_i \Delta x_b(i)$
calculate radiative forcing of $O_3$ and $O_3^{tra}$ of emission scenario with respect to control scenario
write output for emission and control scenario
END