a) Initial drift correction (hourly minima baselines)

$[CO_2]$

$\Delta[CO_2]^{daily}$

$\Delta[CO_2]^{start}$

$\Delta[CO_2]^{init}$

$[CO_2]_{min}^{LC}$

$[CO_2]_{min}^{LC,init}$

$[CO_2]_{min}^{MC}$

$t\ (days)$
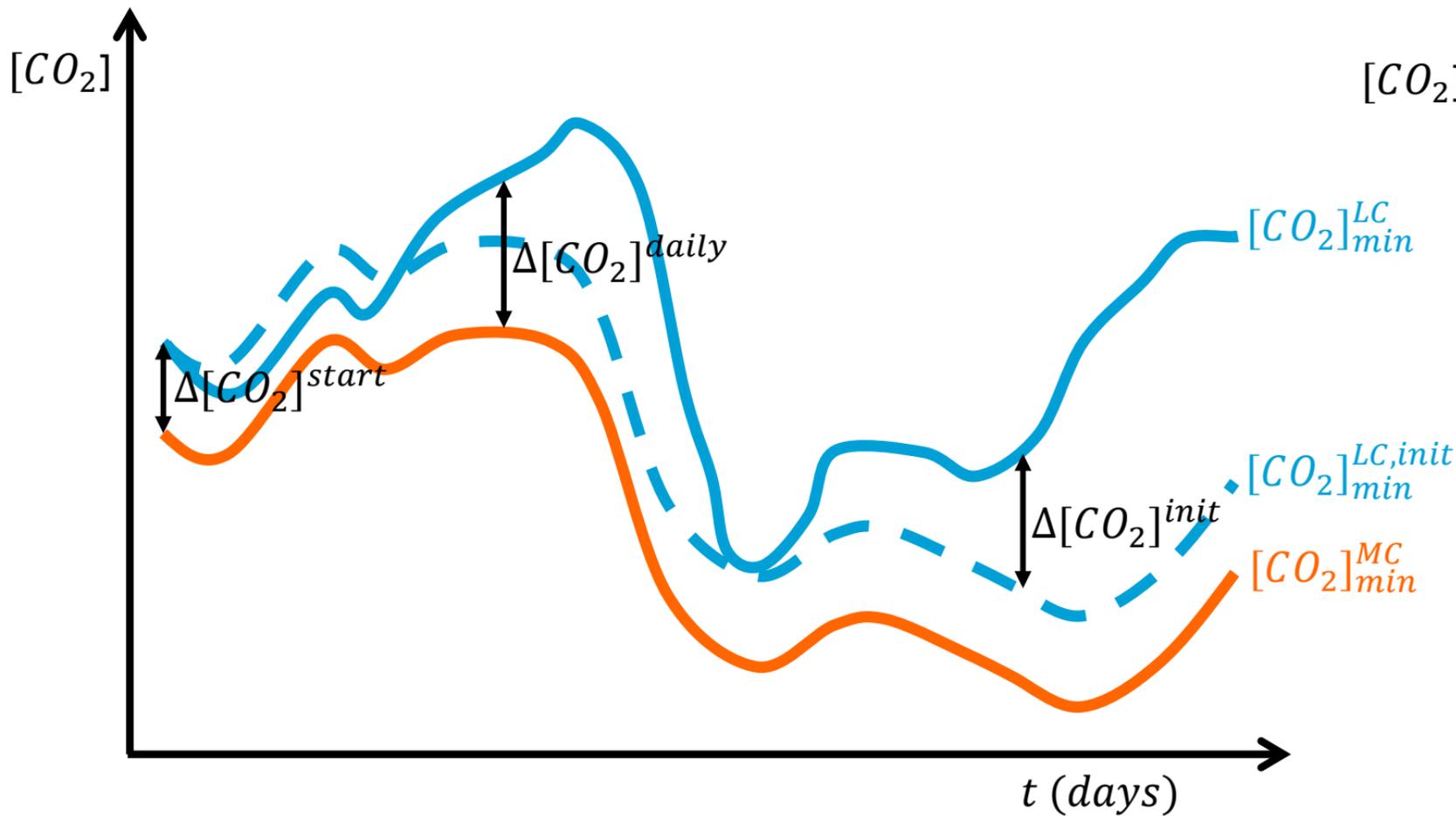
b) Homogenisation correction (10-minute minima baselines)

$[CO_2]$

$\Delta[CO_2]^{homog}(\mathcal{H})$

$\Delta[CO_2]^{homog}(t)$

$interpolation$

$\Delta[CO_2]^{homog}(\mathcal{H})$

$[CO_2]_{min}^{LC,init}$

$[CO_2]_{min}^{GA}$

$\mathcal{H}$

$\mathcal{H}$

$t\ (days)$