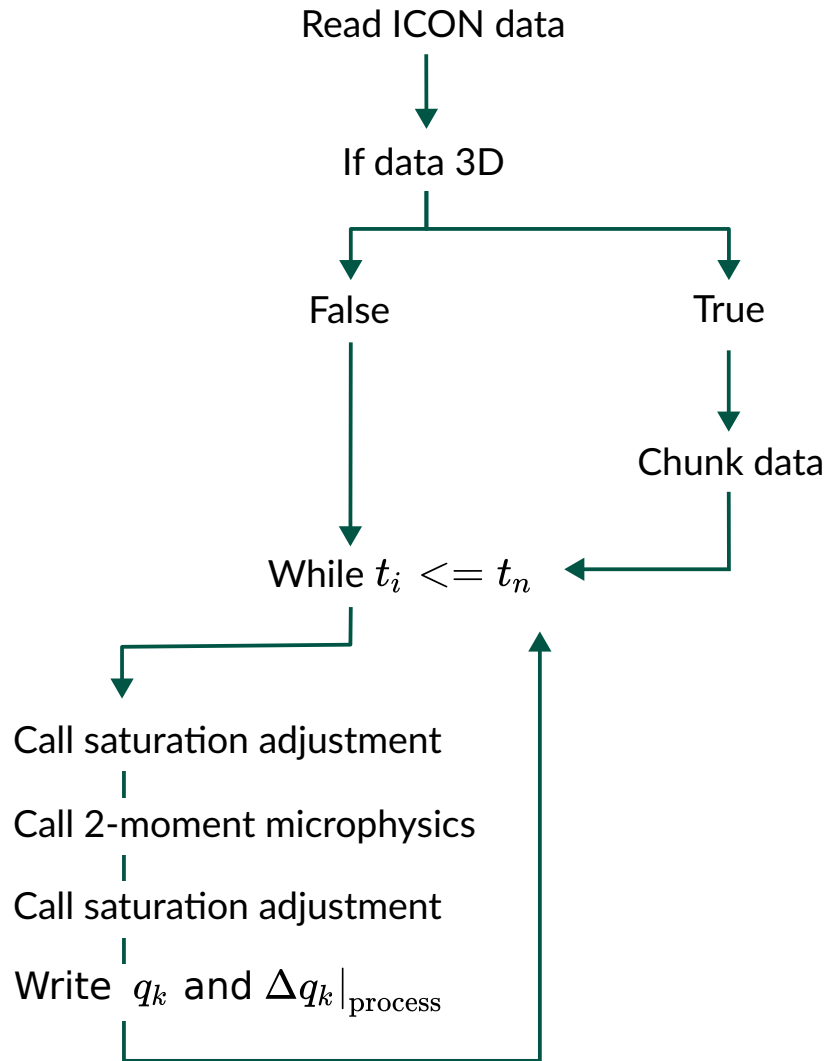


## Microphysics wrapper flowchart



## Input data

ICON data must contain:

- Thermodynamic variables ( $T, p, \rho, w$ )
- Level coordinates (half levels, full levels)
- Hydrometeor masses and concentrations ( $q_k, N_k$ )

## Variables

$w$  Vertical velocity

$T$  Temperature

$\rho$  Density

$p$  Pressure

$t_i$  Timestep at time  $i$

$t_n$  Last timestep

$q_k$  Mass mixing ratio

$N_k$  Number concentration

$\Delta q_k|_{\text{process}}$  Change of mass mixing ratio due to a process

Index  $k$  indicates hydrometeor types: vapour, cloud droplets, cloud ice, rain, snow, graupel, hail