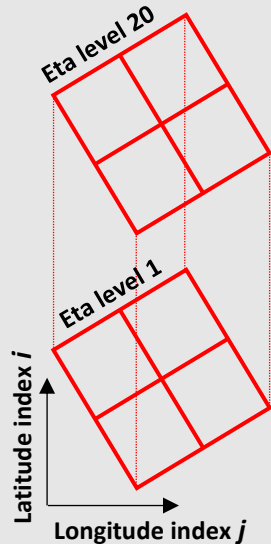


Workflow for computing corrected WRF temperatures from the WRF atmosphere

Hourly WRF temperature (T)

Catchment domain



Spatial averaging
with Eq. 1

$\bar{T}_{level20,t}$

Spatial averaging
with Eq. 1

$\bar{T}_{level1,t}$

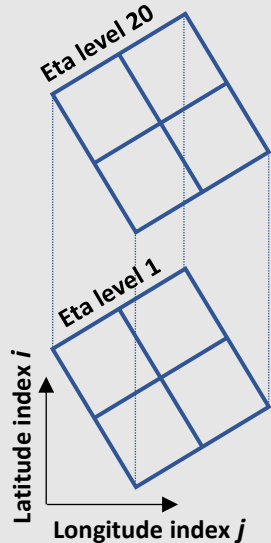
Elevation of
meteorological
station ($H_{station}$)

Hourly
temperature
lapse rates (τ_t)
with Eq. 3

Hourly
temperature ($T_{cor,t}$)
at station locations
with Eq. 4

Hourly WRF geopotential
height (H)

Catchment domain



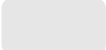
Spatial averaging
with Eq. 2

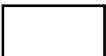
$\bar{H}_{level20,t}$

Spatial averaging
with Eq. 2

$\bar{H}_{level1,t}$

Legend

 Data

 Computation

 Data flow