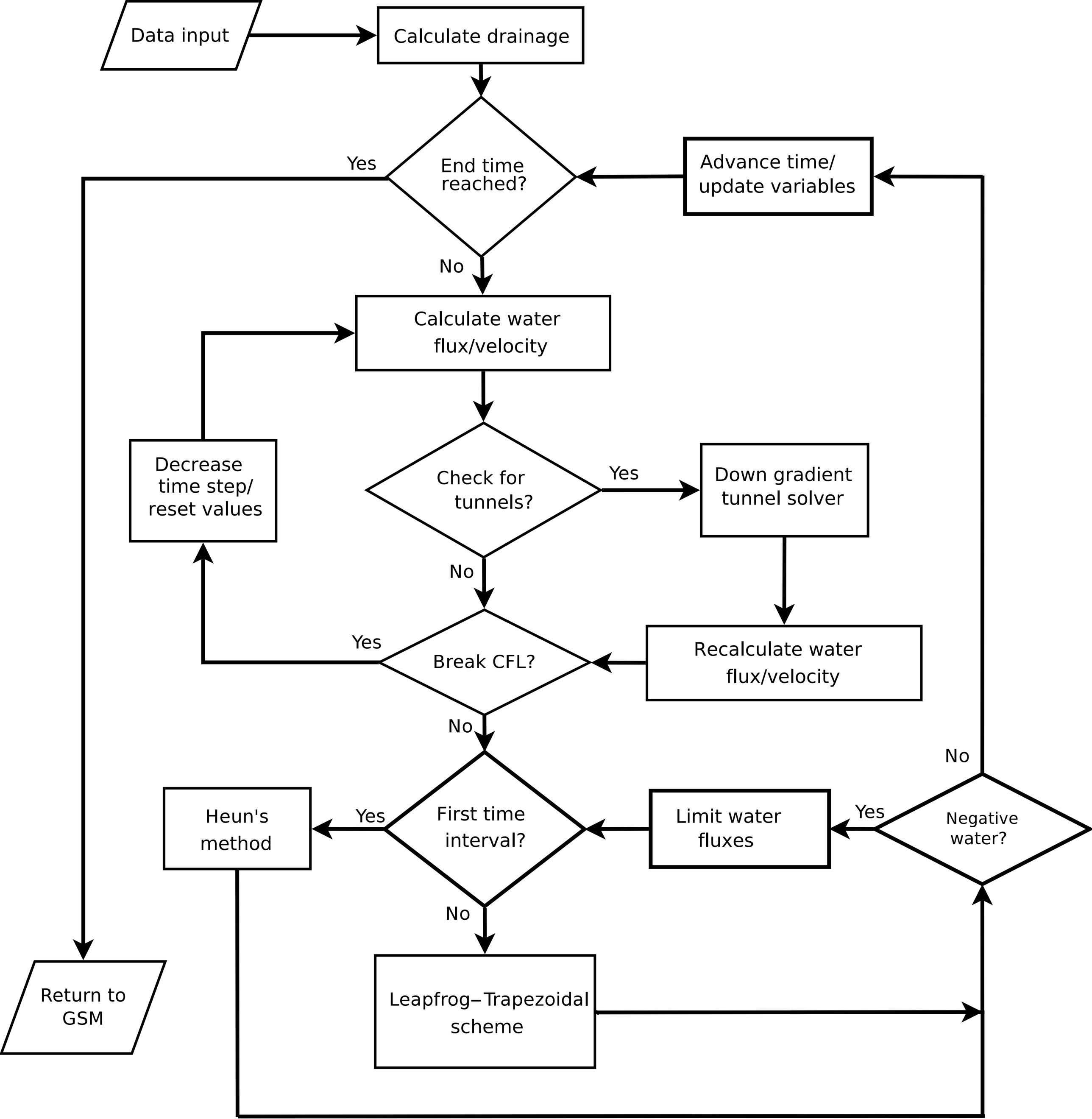
Data input
Calculate drainage
End time reached?
Yes
No
Advance time/ update variables
Calculate water flux/velocity
Decrease time step/ reset values
Check for tunnels?
Yes
No
Down gradient tunnel solver
Break CFL?
Yes
No
Recalculate water flux/velocity
Negative water?
No
Yes
Limit water fluxes
First time interval?
Yes
No
Heun's method
Leapfrog−Trapezoidal scheme
Return to GSM